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RF Exposure Part 0 Test Report

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Date of Testing: 09/02/2024 - 10/28/2024 Test Site/Locations: Element, Columbia, MD, USA Element Morgan Hill, CA, USA Element, Suwon, Korea Document Serial No.: 1M2408260064-31.A3L

FCC ID: A3LSMS936U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

Report Type: SAR Characterization
DUT Type: Portable Handset
Model(s): SM-S936U
Additional Model(s): SM-S936U1

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez Executive Vice President







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APPENDIX A: PART 0 SAR TEST RESULTS FOR PLIMIT CALCULATIONS

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DEVICE UNDER TEST

1.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency	
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz	
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz	
UMTS 850	Voice/Data	826.40 - 846.60 MHz	
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz	
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz	
LTE Band 71	Voice/Data	665.5 - 695.5 MHz	
LTE Band 12	Voice/Data	699.7 - 715.3 MHz	
LTE Band 13	Voice/Data	779.5 - 784.5 MHz	
LTE Band 14	Voice/Data	790.5 - 795.5 MHz	
LTE Band 26	Voice/Data	814.7 - 848.3 MHz	
LTE Band 5	Voice/Data	824.7 - 848.3 MHz	
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz	
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz	
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz	
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz	
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz	
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz	
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz	
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz	
LTE Band 48	Voice/Data	3552.5 - 3697.5 MHz	
NR Band n71	Voice/Data	665.5 - 695.5 MHz	
NR Band n12	Voice/Data	701.5 - 713.5 MHz	
NR Band n14	Voice/Data	790.5 - 795.5 MHz	
NR Band n26	Voice/Data	816.5 - 846.5 MHz	
NR Band n5	Voice/Data	826.5 - 846.5 MHz	
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz	
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz	
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz	
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz	
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz	
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz	
NR Band n41	Voice/Data	2501.01 - 2685 MHz	
NR Band n38	Voice/Data	2575 - 2615 MHz	
NR Band n48	Voice/Data	3555 - 3694.98 MHz	
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz	
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz;	
THE BAHA III	70,00,2414	3705 - 3975 MHz	
NTN Band 255	Data	1629 - 1658 MHz	
NR Band n258	Data	24250 - 24450 MHz;	
NR Band n260	Data	24750 - 25250 MHz 37000 - 40000 MHz	
NR Band n261	Data	27500 - 28350 MHz	
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz	
2.7 OHZ WILL	VOICE/Data	U-NII-1: 5180 - 5240 MHz	
5 GHz WIFI	Voice/Data	U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz U-NII-3: 5745 - 5825 MHz	
6 GHz WIFI	Voice/Data	U-NII-4: 5845 - 5885 MHz U-NII-5: 5935 - 6415 MHz U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz U-NII-8: 6895 - 7115 MHz	
2.4 GHz Bluetooth	Data	2402 - 2480 MHz	
NFC	Data	13.56 MHz	
UWB	Data	6489.6 - 7987.2 MHz	

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

The purpose of this report is to show SAR Characterization of WWAN sub-6/WLAN/BT (Part0) and to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels (Part1).

1.2.1 **Nomenclature**

Technology	Term	Description	
MAMANI CII.L. C	Plimit	Power level that corresponds to the exposure design target (SAR_design_target) after accounting for all device design related uncertainties	
WWAN Sub-6	P _{max}	Maximum tune up output power	
/WLAN/BT	SAR_design_target	Target SAR level < FCC SAR limit after accounting for all	
		device design related uncertainties	
	SAR Char	Table containing <i>Plimit</i> for all technologies and bands	

1.2.2 **Time-Averaged Algorithm**

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the timeaveraged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 1.3- Bibliography).

Note that NTN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design target or PD design target, below the predefined time-averaged power limit (i.e., Plimit for WWAN sub-6/WLAN/BT radio, and input.power.limit for 5G mmW NR), for each characterized technology and band. Characterization is achieved by determining Plimit for WWAN sub-6/WLAN/BT that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR design target (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see SAR Summary Section and Part 0 SAR Test Results for *P_{limit}* Calculations Appendix).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for WWAN sub-6/WLAN/BT is 1.0dB for this EUT.

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of (" P_{limit} EFS" and "Maximum tune up output power P_{max} ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

1.3 **Bibliography**

Report Type	Report Serial Number
RF Exposure Part 1 Test Report	1M2408260064-23.A3L
Near Field PD Report (Part 1)	1M2408260064-25.A3L
Near Field PD Report (Part 0)	
RF Exposure Part 2 Test Report	1M2408260064-24.A3L
RF Exposure Compliance Summary Report	1M2408260064-26.A3L

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SAR AND POWER DENSITY MEASUREMENTS

1.1 SAR Definition

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 2-1).

Equation 2-1 **SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m) = mass density of the tissue-simulating material (kg/m³)

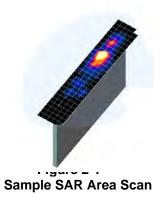
Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane.[6]

1.2 SAR Measurement Procedure

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.



3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume

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size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 2-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):

- a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 2-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
- b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
- c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was found.
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 2-1
Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

		Maximum Zoom Scan Resolution (mm)	Maximum Zoom Scan Spatial Resolution (mm)		Minimum Zoom Scan Volume (mm)	
riequelicy	(Δx _{area} , Δy _{area})	(Δx _{200m} , Δy _{200m})	Uniform Grid	Gı	raded Grid	(x,y,z)
			Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	
≤ 2 GHz	≤15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤4	≤3	≤ 2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤2	≤ 1.5*∆z _{zoom} (n-1)	≥22

*Also compliant to IEEE 1528-2013 Table 6

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3 PART 0 SAR CHARACTERIZATION

3.1 SAR Characterization

3.1.1 DSI and SAR Determination

This device uses different Device State Index (DSI) to configure different time averaged power levels based on certain exposure scenarios. Depending on the detection scheme implemented in the smartphone, the worst-case SAR was determined by measurements for the relevant exposure conditions for that DSI. Detailed descriptions of the detection mechanisms are included in the operational description.

When 1g SAR and 10g SAR exposure comparison is needed, the worst-case was determined from SAR normalized to 1g or 10g SAR limit.

The device state index (DSI) conditions used in Table 2-1 represent different exposure scenarios.

Table 3-1
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (DSI = 1)	Device positioned next to headReceiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (DSI = 0)	Device transmits in hotspot mode near bodyHotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (DSI = 0)	Device is held with hand	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (DSI = 0)	 Device being used with a body-worn accessory 	Body-worn SAR per KDB Publication 648474 D04

3.1.2 SAR_Design_Target

SAR_design_target is determined by ensuring that it is less than FCC SAR limit after accounting for total device designed related uncertainties specified by the manufacturer (see Table 2-2).

Table 3-2 SAR_design_target Calculations

SAR_design_target								
$SAR_design_target < SAR_regulatory_limit imes 10^{rac{-Total\ Uncertainty}{10}}$								
1g SAR (W/kg)								
Total Uncertainty	1.0 dB	Total Uncertainty 1.0 dB						
SAR_regulatory_limit	1.6 W/kg	SAR_regulatory_limit 4.0 W/kg						
SAR_design_target	1.0 W/kg	SAR_design_target	2.5 W/kg					

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3.1.3 SAR Char

SAR test results corresponding to *Pmax/Plimit* for each antenna/technology/band/DSI can be found in SAR Summary Section and Part 0 SAR Test Results for Plimit Calculations Appendix.

Plimit is calculated by linearly scaling with the measured SAR at the Ppart0 to correspond to the SAR_design_target. When Plimit < Pmax, Ppart0 was used as Plimit in the Smart Transmit EFS. When Plimit > Pmax and Ppart0=Pmax, calculated Plimit was used in the Smart Transmit EFS. For some bands/modes, the manufacture selected a lower Plimit. All reported SAR obtained from the Ppart0 SAR tests was less than SAR_Design_target+ 1 dB Uncertainty. The final Plimit determination for each exposure scenario corresponding to SAR_design_target are shown in Table 2-3.

Table 3-3 PLimit Determination

Device State Index (DSI)	PLimit Determination Scenarios
0	The worst-case SAR exposure is determined as maximum SAR normalized to the limit (i.e. lowest P_{limit}) among: 1. Body Worn SAR 2. Extremity SAR measured at 0 mm for all surfaces. 3. Hotspot SAR at 10 mm
1	P _{limit} is calculated based on 1g Head SAR

Notes:

- When P_{max} < P_{limit} EFS, the DUT will operate at a power level up to P_{max}
- All P_{limit} EFS and maximum tune up output power P_{max} levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).
- Maximum tune up output power P_{max} is used to configure EUT during RF tune up procedure. The maximum allowed output power is equal to maximum Tune up output power + 1dB device design uncertainty.
- All MIMO P_{max} and P_{limit} are defined per antenna chain.

Measurement Condition: All conducted power and SAR measurements in this report (Part 1 test) were performed by setting Reserve power margin (Smart Transmit EFS entry) to 0dB.

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Table 3-4 SAR Characterizations

			Body-Wom,		
			Maximum	Hotspot, or	Head
Exposure Scenario			Tune-Up	Phablet	
Averaging Volume Spacing			Output	1g/10g 10mm, 0mm	1g 0mm
Configuration			Power*	Tonan, onan	Onlin
DSI				0	1
Technology/Band	Antenna	Antenna Group	P _{max}	P_{limit}	P_{limit}
GSM 850	А	AG0	25.3	30.2	30.2
GSM 850	Е	AG1	25.3	28.4	20.8
GSM 1900	Α	AG0	22.1	17.8	28.0
UMTS 850 UMTS 850	A E	AG0	24.0	28.0	29.8
UMTS 1750	A	AG1 AG0	24.0 22.5	26.8 18.0	21.0 27.6
UMTS 1900	Α	AG0	23.5	17.5	27.8
LTE Band 71	Α	AG0	24.0	28.7	30.1
LTE Band 71	E	AG1	24.0	28.4	18.0
LTE Band 12 LTE Band 12	A E	AG0 AG1	24.3 24.3	29.5 27.9	30.3 21.0
LTE Band 13	A	AG0	24.0	28.5	30.0
LTE Band 13	Е	AG1	24.0	26.2	21.0
LTE Band 14	Α	AG0	24.3	28.8	29.9
LTE Band 14	E	AG1	24.3	26.4	21.0
LTE Band 26/5 LTE Band 26/5	A F	AG0 AG1	24.0 24.0	28.8	29.8 21.0
LTE Band 66/4	A	AG0	23.5	18.5	27.3
LTE Band 66/4	F	AG1	23.5	20.0	16.0
LTE Band 25/2	Α	AG0	23.5	18.0	28.8
LTE Band 25/2	F	AG1 AG0	23.5	20.0	18.0
LTE Band 30 LTE Band 30	A F	AG0 AG1	22.5 22.5	19.0 18.0	34.8 16.5
LTE Band 7	В	AG0	23.0	19.0	31.2
LTE Band 7	F	AG1	23.0	17.0	15.5
LTE Band 41	В	AG0	22.0	19.0	18.4
LTE Band 41 LTE Band 38	F B	AG1	22.0 22.0	16.0	14.5
LTE Band 38	F	AG0 AG1	22.0	17.0 14.5	18.4 12.5
LTE Band 48	F	AG1	20.5	16.5	12.5
NR Band n71	Α	AG0	24.0	28.4	31.0
NR Band n71	E	AG1	24.0	27.5	18.0
NR Band n12 NR Band n12	A E	AG0 AG1	24.3 24.3	28.6	31.2 21.0
NR Band n14	A	AG0	24.0	28.2	34.2
NR Band n14	Е	AG1	24.0	26.8	21.0
NR Band n26/n5	Α	AG0	24.0	27.6	33.5
NR Band n26/n5	E	AG1	24.0	25.8	21.0
NR Band n70 NR Band n70	A F	AG0 AG1	23.0 23.0	19.0 19.0	28.5 16.0
NR Band n66	A	AG0	23.5	18.5	26.7
NR Band n66	F	AG1	23.5	20.0	16.0
NR Band n25/n2	Α	AG0	23.5	18.0	28.0
NR Band n25/n2 NR Band n30	F A	AG1 AG0	23.5 22.5	20.0 19.0	18.0 34.9
NR Band n30	F	AG1	22.5	18.0	16.5
NR Band n7	В	AG0	23.0	19.0	30.7
NR Band n7	F	AG1	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	AG1	26.0	16.5	13.5
NR Band n41 PC2 (Path 1) NR Band n41 PC2 (Path 1)	B E	AG0 AG1	25.0 24.0	19.0 17.5	17.5 16.0
NR Band n41 PC2 (Path 1) NR Band n41 PC2 (Path 1)	D	AG1 AG0	24.0	17.5	16.0
NR Band n41 PC2 (Path 2)	В	AG0	26.0	20.0	24.0
NR Band n41 PC2 (Path 2)	F	AG1	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D E	AG0	22.0	15.5 17.5	14.0
NR Band n41 PC2 (Path 2) NR Band n38 (Path 1)	F	AG1 AG1	19.0 24.0	17.5	16.0 13.5
NR Band n38 (Path 2)	В	AG0	24.0	19.0	24.0
NR Band n48	F	AG1	22.5	18.0	14.0
NR Band n48	С	AG0	19.5	13.0	9.0
NR Band n48	I	AG1	22.5	16.0	12.0
NR Band n48 NR Band n77/n78 PC2	D F	AG0 AG1	18.5 26.0	11.5 17.0	7.5 15.0
NR Band n77/n78 PC2	С	AG0	19.0	11.0	10.0
NR Band n77/n78 PC2	ı	AG1	23.5	15.0	14.0
NR Band n77/n78 PC2	D	AG0	18.0	10.0	9.0
2.4 GHz WIFI 2.4 GHz WIFI	H J	AG1	19.0 19.0	20.1	13.0
2.4 GHz WIFI 2.4 GHz WIFI	MIMO	AG1 AG1	19.0	25.1 19.6	13.0
5 GHz WIFI	Н	AG1	17.0	16.0	13.0
5 GHz WIFI	Е	AG1	17.0	16.0	13.0
5 GHz WIFI	MIMO	AG1	17.0	16.0	13.0
6 GHz WIFI	H	AG1	16.0	10.5	9.0
6 GHz WIFI 6 GHz WIFI	MIMO	AG1	16.0 16.0	10.5 10.5	9.0
2.4 GHz Bluetooth	Н	AG1	17.4	20.2	10.9
2.4 GHz Bluetooth	J	AG1	17.4	26.9	10.9
	MIMO	AG1	10.9	19.3	17.7

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EQUIPMENT LIST

Manufacturer	Model	Description	Call Date	Cal Interval	Cal Due	Serial Number
Agilent Agilent	E4404B E4438C	Spectrum Analyzer ESG Vector Signal Generator ESG Vector Signal Generator MED Vector Signal Generator	N/A 11/14/2023	N/A Annual	N/A 11/14/2024	MY45113242 MY45093852
Agilent	E4438C	ESG Vector Signal Generator	N/A 11/14/2023 11/15/2023 10/12/2023	Annual	N/A 11/14/2024 11/15/2024 10/12/2024	MY45092078
Agilent	N5182A N5182A	MXG Vector Signal Generator MXG Vector Signal Generator	3/7/2024	Annual	3/7/2025	MY47400015 MY47420603
Agilent Agilent	8753ES 8753ES	S-Parameter Vector Network Analyzer S-Parameter Vector Network Analyzer	1/10/2024 7/21/2023	Annual Annual	1/10/2025 7/21/2024	MY40001472 US39170118
Agilent	E5515C	Wireless Communications Test Set	CBT	N/A	CBT	G846310798
Agilent Agilent	ESS1SC N4010A	Wireless Communications Test Set Wireless Connectivity Test Set	CBT N/A	N/A N/A	CBT N/A	US41140256 G846170464
Amplifier Research Amplifier Research	1551G6 1551G6	Amplifier Amplifier	CBT	N/A N/A	CBT	433973 433974
Amplifier Research	150A100C	Amplifier	CBT	N/A	CBT	350132
Anritsu Anritsu	MN81108 ML2496A	I/O Adaptor Power Meter	CBT 6/24/2024	N/A Annual	CBT 6/24/2025	6261747881 1840005
Anritsu	M12495A MA24118	Power Meter Pulse Power Sensor	6/24/2024 7/8/2024 8/22/2023	Annual	6/24/2025 7/8/2025 8/22/2024	1039008
Annibia Annibia	MA24118 MA24118 MT8821C		8/22/2023 11/8/2023	Annual	11/8/2024	1726262
Anritsu	MT8821C	Radio Communication Analyzer MT8825C	12/15/2023 5/15/2024	Annual	11/8/2024 12/15/2024	6200901190
Anritsu	MT8821C	Radio Communication Analyzer MT8823C	5/30/2024	Annual	5/15/2025 5/30/2025	6262044715
Anritsu Anritsu	MT8000A MT8000A	Radio Communication Test Station Radio Communication Test Station	CBT 4/10/2024	N/A Annual	CBT 4/10/2025	626196-7072 6261987983
Anritsu	MT8000A	Radio Communication Test Station	5/2/2024	Annual	5/2/2025	6272337436
Anritsu Anritsu	MA24106A MA24106A	USB Power Sensor USB Power Sensor	12/4/2023 4/15/2024	Annual Annual	12/4/2024 4/15/2025	1520501 1827528
Mini-Circuits Control Company	PWR-4GHS 4052	USB Power Sensor Long Stem Thermometer	6/12/2024	Annual Biennial	6/12/2025 2/27/2026	12001070013 240174346
Control Company	4052 4052 4052	Long Stem Thermometer Long Stem Thermometer Long Stem Thermometer	2/27/2024 2/27/2024 2/27/2024		2/27/2026	240173096 240173099 240173059
Control Company		Long Stem Thermometer Therm / Clark / Humidity Monitor	2/27/2024	Siennial Siennial	2/27/2026 2/27/2026 4/15/2026 4/15/2026	240171059
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial		240310282
Control Company Mitutoyo	\$66279 500-196-30	Therm./Clock/ Humidity Monitor CD-6"ASX 6Inch Digital Caliper	2/16/2024	Triennial	2/16/2026 2/16/2025	240140051 A20238413
Keysight Technologies Agilent	N9020A N9020A	MKA Signal Analyzer MKA Signal Analyzer	4/11/2024 6/14/2024	Annual Annual	4/11/2025 6/14/2025	MY54500644 MY56470202
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini-Circuits Mini-Circuits	VLF-6000+ VLF-6000+	Low Pass Filter DC to 6000 MHz Low Pass Filter DC to 6000 MHz	CBT 7/5/2023	N/A Annual	CBT 7/5/2024	N/A 31634
Mini-Circuits Mini-Circuits	BW-N20W5+ NLP-1200+	DC to 18 GHz Precision Fixed 20 dB Attenuator Low Pass Filter DC to 1000 MHz	CBT	N/A N/A	CBT	N/A N/A
Mini-Circuits Mini-Circuits	NLP-1200+ NLP-2950+ RW-N20WS	Low Pass Filter DC to 2000 MHz Low Pass Filter DC to 2700 MHz	CBT	N/A N/A	CBT	N/A N/A 1226
Mini-Circuits		Power Attenuator		-1411		
Nemi-Lircuits Narda	7UDC10-83-5+ 4772-3	Attenuator (3dB)	CBT	N/A N/A	CBT	2050 9406
Narda Sealann	BW-53W2	Attenuator (3d8)	CBT	N/A N/A	CBT	120
Seekonk Seekonk	NC-100 NC-100	Torque Wrench Torque Wrench	CBT 4/2/2024	N/A Biennial	CBT 4/2/2026	22217 1262
Rohde & Schwarz Rohde & Schwarz	CMW500 CMW500	Wideband Radio Communication Tester Wideband Radio Communication Tester	1/11/2024	Annual	1/11/2025 1/10/2025	150117 131454
Rohde & Schwarz	CMWS00	Wideband Radio Communication Tester	8/10/2023	Annual Annual	8/10/2024	140144
Rohde & Schwarz SPEAG	CMW500 DAX-3.5	Wideband Radio Communication Tester Dielectric Assessment Kit	8/9/2023 11/13/2023	Annual Annual	8/9/2024 11/13/2024	162125 1277
SPEAG	DAKS-3.5 MAIA	Portable Dielectric Assessment Kit	8/14/2023 N/A	Annual N/A	8/14/2024 N/A	1041
SPEAG SPEAG	MAIA MAIA	Modulation and Audio Interference Analyzer Modulation and Audio Interference Analyzer	N/A N/A	N/A N/A	N/A N/A	1237 1331
SPEAG	MAIA	Modulation and Audio Interference Analyzer	N/A	N/A	N/A	1390
SPEAG SPEAG	DAK-12 CLA-13	Dielectric Assessment Kit (4MHz - 3GHz) Confined Loop Antenna	3/11/2024 11/9/2023	Annual Annual	3/11/2025 11/9/2024	1102 1004
SPEAG	D750V3	750 MHz SAR Dipole	10/19/2021	Triennial	10/19/2024	1161
SPEAG	D750/3 D750/3	750 MHz SAR Dipole 750 MHz SAR Dipole	3/14/2022 9/13/2023	Triennial Biennial	3/14/2025 9/13/2025	1054 1097
SPEAG SPEAG	D839V2 D839V2	835 MHz SAR Dipole 835 MHz SAR Dipole	3/11/2024 5/16/2022	Annual Triennial	3/11/2025 5/16/2025	4d133 4d040
SPEAG	D835V2	835 MHz SAR Dipole	5/16/2022 4/8/2024	Annual	4/8/2025	4d119
SPEAG SPEAG	D835V2 D1640V2	835 MHz SAR Dipole 1640 MHz SAR Dipole	1/18/2024 12/13/2022	Annual Biennial	1/18/2025 12/13/2024	4d132 321
SPEAG	D1750V2	1750 MHz SAR Dipole	10/22/2021	Triennial	10/22/2024	1150
SPEAG SPEAG	D1750V2 D1750V2	1750 MHz SAR Dipple 1750 MHz SAR Dipple 1750 MHz SAR Dipple 1900 MHz SAR Dipple	4/15/2024 1/18/2022	Annual Triennial	10/22/2024 4/15/2025 1/18/2025	1051 1148 5d148
SPEAG SPEAG	D1900V2		2/21/2022 4/12/2024	Triennial Annual	2/21/2025 4/12/2025	5d148 5d141
SPEAG	D2300V2	2300 MHz SAR Dipole 2300 MHz SAR Dipole	11/14/2023 3/11/2024	Annual	11/14/2024 3/11/2025	1064 1038
SPEAG SPEAG	D2300V2 D2450V2	2300 MHz SAR Dipole 2450 MHz SAR Dipole	3/11/2024	Annual Annual	3/11/2025	1038
SPEAG SPEAG	D2450V2 D2450V2	2450 MHz SAR Dipole 2450 MHz SAR Dipole	2/8/2024 5/10/2024	Annual	2/8/2025 5/10/2025	882 945
SPEAG SPEAG	D2450V2 D2450V2	2450 MHz SAR Dipole 2450 MHz SAR Dipole	5/11/2022 11/15/2022	Triennial Biennial	5/11/2025 11/15/2024	750 855
SPEAG	D2600V2 D2600V2	2600 MHz SAR Dipole 2600 MHz SAR Dipole	5/11/2022 9/12/2023	Triennial	5/11/2025 9/12/2025	1042 1099
SPEAG	D2600V2	2600 MHz SAB Dinnie	671473034	Annual	6/14/3036	1009
SPEAG SPEAG	D3500V2 D3500V2	3500 MHz SAR Dipole 3500 MHz SAR Dipole	12/13/2023 1/12/2024 12/13/2023 1/13/2023	Annual Annual	12/13/2024 1/12/2025 12/13/2024 1/13/2025	1068 1059
SPEAG	D3700V2	3700 MHz SAR Dipole	12/13/2023	Annual	12/13/2024	1029
SPEAG	D3700V2 D3900V2	3700 MHz SAR Dipole	1/13/2023 10/19/2023	Biennial	1/13/2025 10/19/2024	1067 1056
SPEAG	D3700V2	3700 MHz SAR Dipole	1/9/2024	Annual	1/9/2025	1018
SPEAG SPEAG	D5GHzV2 D5GHzV2	5 GHz SAR Dipole 5 GHz SAR Dipole	2/21/2024 4/9/2024	Annual	2/21/2025 4/9/2025	1057 1237
SPEAG SPEAG	D6.5GHzV2	6.5 GHz SAR Dipole 6.5 GHz SAR Dipole	2/22/2024	Annual	2/22/2025	1111
SPEAG	D6.5GHrV2 D8GHrV2	BGHz SAR Dipole	10/11/2023 3/4/2024	Annual Annual	10/11/2024 3/4/2025	1019 1007
SPEAG SPEAG	5G Verification Source 10GHz 5G Verification Source 10GHz	10GHz System Verification Antenna 10GHz System Verification Antenna	3/5/2024 8/22/2024	Annual Annual	3/5/2025 8/22/2025	1002 1004
SPEAG	DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	8/22/2024 1/16/2024 7/8/2024	Annual	1/16/2025 7/8/2025	1004 1582 1677
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Flortronics		Annual Annual		1677
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	4/9/2024 3/1/2024	Annual	4/9/2025 3/1/2025	665
SPEAG SPEAG	DAE4 DAE4 DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/8/2024 5/8/2024	Annual Annual	5/8/2025 5/8/2025	1678 728
SPEAG	DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	9/10/2024	Annual	9/10/2025	1364
SPEAG SPEAG		Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	1/16/2024 8/8/2024	Annual Annual	1/16/2025 8/8/2025	1466 1532
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	6/11/2024 4/18/2024	Annual	6/11/2025 4/18/2025	1334 1407
SPEAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual Annual	2/9/2025	467
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/8/2024 4/9/2024	Annual Annual	5/8/2025 4/9/2025	1683 1652
EREAG	DAE4	Dasy Data Acquisition Electronics	2/9/2024	Annual	2/9/2025	1645
SPEAG SPEAG	DAE4 DAE4 DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	2/9/2024 5/8/2024 5/8/2024	Annual Annual	2/9/2025 5/8/2025 5/8/2025	1502 1676 604 534
SPEAG	DAE4	Dasy Data Acquisition Electronics	3/6/2024	Annual	3/6/2025	604
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	3/6/2024	Annual Annual	3/6/2025	534 1272
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/16/2024	Annual	1/16/2025	1530
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	7/18/2024 12/5/2023	Annual Annual	7/18/2025 12/5/2024	1583 1639
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe SAR Probe	4/16/2024 7/18/2024	Annual Annual	4/16/2025 7/18/2025	7357 7406
SPEAG	EX3DV4	SAR Probe	2/9/2024	Annual	2/9/2025	7308
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe SAR Probe	1/16/2024 9/2/2024	Annual Annual	1/16/2025 9/2/2025	7565 7491
SPEAG SPEAG		SAR Probe SAR Probe	3/8/2024 6/17/2024	Annual Annual	3/8/2025 6/17/2025	7488 7409
	EX3DV4 EX3DV4 EX3DV4	SAR Probe		Annual Annual	6/17/2025 5/8/2025	
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe	4/17/2024	Annual	4/17/2025	7660 7718
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe SAR Probe	2/9/2024 4/17/2024	Annual Annual	2/9/2025 4/17/2025	7427 7659
SPEAG	EX3DV4	SAR Probe	5/13/2024	Annual	5/13/2025	7682
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe	4/17/2024 2/9/2024	Annual Annual	4/17/2025 2/9/2025	7637 7640
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe SAR Probe	5/10/2024 5/10/2024	Annual	5/10/2025 5/10/2025	7402 3914
	EX3DV4	SAR Probe	3/11/2024	Annual	3/11/2025	3914 7421
SPEAG		SAR Probe	3/8/2024	Annual	3/8/2025	7527
SPEAG SPEAG	EX3DV4 EX3DV4		9/11/2024			
SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe	9/11/2024 1/15/2024	Annual Annual	9/11/2025 1/15/2025	7558 7570
SPEAG SPEAG			9/11/2024 1/15/2024 6/28/2024 5/13/2024	Annual Annual Annual	9/11/2025 1/15/2025 6/28/2025 5/13/2024	7570 7803 7603

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements. Note: All equipment was used solely within its respective calibration period.

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MEASUREMENT UNCERTAINTIES

Applicable for SAR measurements < 6GHz:

e for SAR measurements < 6GHz:		I	1		I	1		1	Т
а	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	Ui	Ui	Vi
							(± %)	(± %)	
Measurement System									
Probe Calibration	E.2.1	7	Ν	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	8
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	1	II.	RSS	1	1	1	12.2	12.0	191
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for SAR measurements > 6GHz:

a	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	u _i	u _i	Vi
	000.						(± %)	(± %)	
Measurement System	•								-
Probe Calibration	E.2.1	9.3	N	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	N	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms fo Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	N	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	N	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	1	<u> </u>	RSS	1			13.8	13.6	191
Expanded Uncertainty (95% CONFIDENCE LEVEL)			k=2				27.6	27.1	

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for Power Density Measurements:

a	b	С	d	е	f =	g
					c x f/e	
	Unc.	Prob.			Ui	
Uncertainty Component	(± dB)	Dist.	Div.	Ci	(± dB)	Vi
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor MechanicalOffset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related	•	I		ľ	1	
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)		RSS			1.34	∞
Expanded Uncertainty		k=2			2.68	
(95% CONFIDENCE LEVEL)						

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APPENDIX A: SAR TEST RESULTS FOR PLIMIT CALCULATIONS

For some bands/modes, a lower P_{Limit} was selected as a more conservative evaluation. See RF Exposure SAR Evaluation Report (Part 1) section 12 for 5/6 GHz WLAN SAR data.

Table A-1
DSI = 0 *P*_{Limit} Calculations – GPRS 850 Phablet SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	GPRS 850	GPRS 3 Tx Slots	А	1267M	1:2.76	-0.10	848.80	251	29.38	Back	0	0.607	31.0		
Phablet	GPRS 850	GPRS 3 Tx Slots	А	1267M	1:2.76	0.07	848.80	251	29.38	Front	0	0.517	31.7	İ	
Phablet	GPRS 850	GPRS 3 Tx Slots	А	1267M	1:2.76	-0.01	848.80	251	29.38	Bottom	0	0.503	31.9	30.2	30.2
Phablet	GPRS 850	GPRS 3 Tx Slots	Α	1267M	1:2.76	0.06	848.80	251	29.38	Right	0	0.143	37.3		
Phablet	GPRS 850	GPRS 3 Tx Slots	А	1267M	1:2.76	0.05	848.80	251	29.38	Left	0	0.736	30.2		
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	GPRS 850	GPRS 3 Tx Slots	E	1267M	1:2.76	-0.06	848.80	251	28.92	Back	0	0.663	30.2		
Phablet	GPRS 850	GPRS 3 Tx Slots	E	1267M	1:2.76	0.09	848.80	251	28.92	Front	0	0.525	31.2	28.7	28.4
Phablet	GPRS 850	GPRS 3 Tx Slots	E	1267M	1:2.76	0.07	848.80	251	28.92	Тор	0	0.940	28.7	20.7	28.4
Phablet	GPRS 850	GPRS 3 Tx Slots	E	1267M	1:2.76	-0.03	848.80	251	28.92	Right	0	0.426	32.1		

Table A-2
DSI = 0 *P_{Limit}* Calculations – GPRS 1900 Phablet SAR

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	0.06	1880.00	661	20.79	Back	0	0.739	22.9		
Phablet	GPRS 1900	GPRS 4 Tx Slots		1298M	1:2.076	0.02	1880.00	661	20.79	Front	0	0.793	22.5	i	
Phablet	GPRS 1900	GPRS 4 Tx Slots	А	1298M	1:2.076	-0.08	1880.00	661	20.79	Bottom	0	0.458	24.9	22.5	17.8
Phablet	GPRS 1900	GPRS 4 Tx Slots	Α	1298M	1:2.076	0.02	1880.00	661	20.79	Right	0	0.086	32.2		1
Phablet	GPRS 1900	GPRS 4 Tx Slots	Α	1298M	1:2.076	0.09	1880.00	661	20.79	Left	0	0.124	30.6		

Table A-3
DSI = 0 P_{Limit} Calculations – UMTS 850 Phablet SAR

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Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 850	RMC	Α	1267M	1:1	-0.01	846.60	4233	24.94	Back	0	1.220	28.0		
Phablet	UMTS 850	RMC	Α	1267M	1:1	-0.02	846.60	4233	24.94	Front	0	0.960	29.0		
Phablet	UMTS 850	RMC	Α	1267M	1:1	0.05	846.60	4233	24.94	Bottom	0	0.913	29.3	28.0	28.0
Phablet	UMTS 850	RMC	Α	1267M	1:1	-0.02	846.60	4233	24.94	Right	0	0.186	36.2		
Phablet	UMTS 850	RMC	Α	1267M	1:1	0.03	846.60	4233	24.94	Left	0	1.130	28.3		
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 850	RMC	E	1267M	1:1	0.07	846.60	4233	24.23	Back	0	0.950	28.4		
Phablet	UMTS 850	RMC	E	1267M	1:1	0.01	846.60	4233	24.23	Front	0	1.380	26.8	26.8	26.8
Phablet	UMTS 850	RMC	E	1267M	1:1	0.19	846.60	4233	24.23	Тор	0	0.975	28.3	20.0	20.0
Phablet	UMTS 850	RMC	E	1267M	1:1	-0.04	846.60	4233	24.23	Right	0	1.070	27.9		

Table A-4 DSI = 0 *P_{Limit}* Calculations – UMTS 1900 Phablet SAR

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Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 1750	RMC	Α	1298M	1:1	0.03	1712.40	1312	18.85	Back	0	1.090	22.4		
Phablet	UMTS 1750	RMC	Α	1298M	1:1	0.00	1712.40	1312	18.85	Front	0	1.090	22.4		ı l
Phablet	UMTS 1750	RMC	Α	1298M	1:1	0.02	1712.40	1312	18.85	Bottom	0	0.695	24.4	22.4	18.0
Phablet	UMTS 1750	RMC	A	1298M	1:1	0.02	1712.40	1312	18.85	Right	0	0.222	29.3		
Phablet	UMTS 1750	RMC	Α	1298M	1:1	0.02	1712.40	1312	18.85	Left	0	0.140	31.3		1

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Table A-5 DSI = 0 P_{Limit} Calculations – UMTS 1900 Phablet SAR

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Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	UMTS 1900	RMC	Α	1298M	1:1	-0.03	1907.60	9538	18.20	Back	0	0.819	23.0		
Phablet	UMTS 1900	RMC	Α	1298M	1:1	0.02	1907.60	9538	18.20	Front	0	0.800	23.1		
Phablet	UMTS 1900	RMC	Α	1298M	1:1	0.01	1907.60	9538	18.20	Bottom	0	0.601	24.3	23.0	17.5
Phablet	UMTS 1900	RMC	Α	1298M	1:1	0.01	1907.60	9538	18.20	Right	0	0.120	31.3		
Phablet	UMTS 1900	RMC	A	1298M	1:1	0.03	1907.60	9538	18.20	Left	0	0.169	29.9		

Table A-6 DSI = 0 P_{Limit} Calculations – LTE B71 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 71	20	QPSK	A	1247M	1:1	0.05	680.50	133297	0.0	24.46	1	50	Front	0	0.680	30.1		
Phablet	LTE Band 71	20	QPSK	A	1247M	1:1	0.10	680.50	133297	0.0	24.46	1	50	Bottom	0	0.398	32.4	30.1	28.7
Phablet	LTE Band 71	20	QPSK	A	1247M	1:1	0.03	680.50	133297	0.0	24.46	1	50	Right	0	0.106	38.1	30.1	26.7
Phablet	LTE Band 71	20	QPSK	A	1247M	1:1	-0.01	680.50	133297	0.0	24.46	1	50	Left	0	0.247	34.5		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 71	20	QPSK	E	1247M	1:1	0.01	680.50	133297	0.0	23.92	1	50	Back	0	0.729	29.2		
Phablet	LTE Band 71	20	QPSK	E	1247M	1:1	-0.01	680.50	133297	0.0	23.92	1	50	Front	0	0.611	30.0	28.7	28.4
Phablet	LTE Band 71	20	QPSK	E	1247M	1:1	0.03	680.50	133297	0.0	23.92	1	50	Top	0	0.814	28.7	23.7	20.4
Phablet	LTE Band 71	20	QPSK	E	1247M	1:1	0.09	680.50	133297	0.0	23.92	1	50	Right	0	0.466	31.2		J I

Table A-7 DSI = 0 P_{Limit} Calculations – LTE B12 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 12	10	QPSK	A	1247M	1:1	0.07	707.50	23095	0.0	24.83	1	0	Front	0	0.815	29.6		
Phablet	LTE Band 12	10	QPSK	A	1247M	1:1	0.03	707.50	23095	0.0	24.83	1	0	Bottom	0	0.529	31.5	29.6	29.6
Phablet	LTE Band 12	10	QPSK	A	1247M	1:1	0.02	707.50	23095	0.0	24.83	1	0	Right	0	0.122	37.9	29.0	29.0
Phablet	LTE Band 12	10	QPSK	A	1247M	1:1	0.05	707.50	23095	0.0	24.83	1	0	Left	0	0.339	33.5	1	
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 12	10	QPSK	E	1247M	1:1	0.00	707.50	23095	0.0	24.39	1	0	Back	0	0.940	28.6		
Phablet	LTE Band 12	10	QPSK	E	1247M	1:1	0.00	707.50	23095	0.0	24.39	1	0	Front	0	0.859	29.0	28.1	27.9
Phablet	LTE Band 12	10	QPSK	E	1247M	1:1	-0.06	707.50	23095	0.0	24.39	1	0	Top	0	1.040	28.1	20.1	27.5
Phablet	LTE Band 12	10	QPSK	E	1247M	1:1	-0.02	707.50	23095	0.0	24.39	1	0	Right	0	0.690	29.9	l	1

Table A-8 DSI = 0 *P*_{Limit} Calculations – LTE B13 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 13	10	QPSK	A	1247M	1:1	0.04	782.00	23230	0.0	24.09	1	49	Front	0	0.724	29.4		
Phablet	LTE Band 13	10	QPSK	A	1247M	1:1	0.06	782.00	23230	0.0	24.09	1	49	Bottom	0	0.477	31.2	29.4	28.5
Phablet	LTE Band 13	10	QPSK	A	1247M	1:1	-0.07	782.00	23230	0.0	24.09	1	49	Right	0	0.131	36.8	29.4	26.5
Phablet	LTE Band 13	10	QPSK	A	1247M	1:1	0.02	782.00	23230	0.0	24.09	1	49	Left	0	0.524	30.8		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 13	10	QPSK	E	1247M	1:1	0.01	782.00	23230	1.0	22.53	25	12	Back	0	0.946	26.7		
Phablet	LTE Band 13	10	QPSK	E	1247M	1:1	0.00	782.00	23230	1.0	22.53	25	12	Front	0	0.880	27.0	26.4	26.2
Phablet	LTE Band 13	10	QPSK	E	1247M	1:1	0.01	782.00	23230	1.0	22.53	25	12	Тор	0	1.010	26.4	23.4	20.2
Phablet	LTE Band 13	10	QPSK	E	1247M	1:1	-0.03	782.00	23230	1.0	22.53	25	12	Right	0	0.695	28.0		

Table A-9 DSI = 0 *P*_{Limit} Calculations – LTE B14 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]		EFS Plimit [dBm]
Phablet	LTE Band 14	10	QPSK	Α	1247M	1:1	-0.01	793.00	23330	0.0	24.85	1	49	Front	0	0.785	29.8		
Phablet	LTE Band 14	10	QPSK	A	1247M	1:1	0.09	793.00	23330	0.0	24.85	1	49	Bottom	0	0.495	31.8	29.8	28.8
Phablet	LTE Band 14	10	QPSK	A	1247M	1:1	0.00	793.00	23330	0.0	24.85	1	49	Right	0	0.147	37.1	29.8	20.0
Phablet	LTE Band 14	10	QPSK	A	1247M	1:1	0.06	793.00	23330	0.0	24.85	1	49	Left	0	0.587	31.1	1	

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 14	10	QPSK	E	1247M	1:1	-0.01	793.00	23330	0.0	24.16	1	25	Back	0	1.350	26.8		
Phablet	LTE Band 14	10	QPSK	E	1247M	1:1	0.06	793.00	23330	0.0	24.16	1	25	Front	0	1.170	27.4	26.6	26.4
Phablet	LTE Band 14	10	QPSK	E	1247M	1:1	-0.01	793.00	23330	0.0	24.16	1	25	Тор	0	1.400	26.6	20.0	20.4
Phablet	LTE Band 14	10	QPSK	E	1247M	1:1	-0.01	793.00	23330	0.0	24.16	1	25	Right	0	1.070	27.8	J	

Table A-10 DSI = 0 P_{Limit} Calculations – LTE B26 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 26	15	QPSK	Α	1247M	1:1	-0.02	831.50	26865	0.0	24.46	1	36	Front	0	0.850	29.1		
Phablet	LTE Band 26	15	QPSK	A	1247M	1:1	-0.04	831.50	26865	0.0	24.46	1	36	Bottom	0	0.743	29.7	28.8	28.8
Phablet	LTE Band 26	15	QPSK	A	1247M	1:1	-0.04	831.50	26865	0.0	24.46	1	36	Right	0	0.096	38.6	20.0	20.0
Phablet	LTE Band 26	15	QPSK	A	1247M	1:1	-0.04	831.50	26865	0.0	24.46	1	36	Left	0	0.920	28.8		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 26	15	QPSK	E	1247M	1:1	0.01	831.50	26865	0.0	23.67	1	36	Back	0	1.190	26.8		
Phablet	LTE Band 26	15	QPSK	E	1247M	1:1	-0.02	831.50	26865	0.0	23.67	1	36	Front	0	0.892	28.1	26.7	26.2
Phablet	LTE Band 26	15	QPSK	E	1247M	1:1	0.07	831.50	26865	0.0	23.67	1	36	Top	0	1.240	26.7	20.7	20.2
Phablet	LTE Band 26	15	QPSK	E	1247M	1:1	0.00	831.50	26865	0.0	23.67	1	36	Right	0	0.734	28.9		

Table A-11 DSI = 0 *P*_{Limit} Calculations – LTE B66 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 66	20	QPSK	A	1263M	1:1	0.09	1720.00	132072	0.0	18.49	1	0	Back	0	1.210	21.6		
Phablet	LTE Band 66	20	QPSK	A	1263M	1:1	0.02	1720.00	132072	0.0	18.49	1	0	Front	0	1.050	22.2		
Phablet	LTE Band 66	20	QPSK	A	1263M	1:1	-0.05	1720.00	132072	0.0	18.49	1	0	Bottom	0	1.110	22.0	21.6	18.5
Phablet	LTE Band 66	20	QPSK	A	1263M	1:1	-0.07	1720.00	132072	0.0	18.49	1	0	Right	0	0.035	37.0		
Phablet	LTE Band 66	20	QPSK	A	1263M	1:1	-0.13	1720.00	132072	0.0	18.49	1	0	Left	0	0.195	29.5		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number		Power Drift [dB]	[MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset		Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.05	1720.00	132072	0.0	20.23	50	0	Back	0	1.090	23.8		
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.00	1720.00	132072	0.0	20.23	50	0	Front	0	1.440	22.6		
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	-0.02	1720.00	132072	0.0	20.20	1	50	Top	0	2.110	20.9		
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.02	1745.00	132322	0.0	19.82	1	50	Top	0	2.210	20.3		
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	-0.06	1770.00	132572	0.0	20.02	1	0	Top	0	2.140	20.6	20.3	20.0
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.00	1720.00	132072	0.0	20.23	50	0	Тор	0	2.060	21.0	20.3	1 20.0
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.01	1745.00	132322	0.0	19.96	50	0	Тор	0	2.200	20.5		
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.00	1770.00	132572	0.0	19.87	50	0	Тор	0	2.180	20.4		1
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	0.00	1720.00	132072	0.0	20.09	100	0	Тор	0	2.120	20.8		1
Phablet	LTE Band 66	20	QPSK	F	1252M	1:1	-0.17	1720.00	132072	0.0	20.23	50	0	Left	0	0.510	27.1		

Table A-12 DSI = 0 *P*_{Limit} Calculations – LTE B25 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 25	20	QPSK	A	1263M	1:1	0.03	1860.00	26140	0.0	18.44	1	0	Back	0	0.839	23.1		
Phablet	LTE Band 25	20	QPSK	A	1263M	1:1	0.01	1860.00	26140	0.0	18.44	1	0	Front	0	0.915	22.8	1	
Phablet	LTE Band 25	20	QPSK	A	1263M	1:1	0.05	1860.00	26140	0.0	18.44	1	0	Bottom	0	0.854	23.1	22.8	18.0
Phablet	LTE Band 25	20	QPSK	Α	1263M	1:1	0.07	1860.00	26140	0.0	18.44	1	0	Right	0	0.117	31.7		
Phablet	LTE Band 25	20	QPSK	Α	1263M	1:1	0.04	1860.00	26140	0.0	18.44	1	0	Left	0	0.132	31.2		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	0.04	1882.50	26365	0.0	20.23	1	0	Back	0	1.210	23.3		
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	0.09	1882.50	26365	0.0	20.23	1	0	Front	0	1.390	22.7		
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.01	1860.00	26140	0.0	20.20	1	50	Top	0	2.140	20.8		
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.04	1882.50	26365	0.0	20.23	1	0	Тор	0	2.010	21.1		
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.01	1905.00	26590	0.0	19.96	1	0	Top	0	1.990	20.9	20.7	20.0
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.03	1860.00	26140	0.0	20.16	50	25	Тор	0	2.180	20.7	1 20.7	20.0
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	0.00	1882.50	26365	0.0	20.17	50	25	Тор	0	2.060	21.0		
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.01	1905.00	26590	0.0	20.03	50	25	Top	0	1.970	21.0	1	
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.01	1860.00	26140	0.0	20.15	100	0	Тор	0	2.150	20.8	1	
Phablet	LTE Band 25	20	QPSK	F	1252M	1:1	-0.09	1882.50	26365	0.0	20.23	1	0	Left	0	0.522	27.0		

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Table A-13 DSI = 0 P_{Limit} Calculations – LTE B30 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 30	10	QPSK	A	1285M	1:1	-0.13	2310.00	27710	0.0	19.52	1	25	Back	0	1.010	23.4		
Phablet	LTE Band 30	10	QPSK	A	1285M	1:1	0.00	2310.00	27710	0.0	19.52	1	25	Front	0	0.565	25.9		
Phablet	LTE Band 30	10	QPSK	A	1285M	1:1	-0.03	2310.00	27710	0.0	19.52	1	25	Bottom	0	1.060	23.2	23.2	19.0
Phablet	LTE Band 30	10	QPSK	A	1285M	1:1	0.08	2310.00	27710	0.0	19.52	1	25	Right	0	0.190	30.7		
Phablet	LTE Band 30	10	QPSK	A	1285M	1:1	-0.07	2310.00	27710	0.0	19.52	1	25	Left	0	0.294	28.8		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 30	10	QPSK	F	1285M	1:1	-0.02	2310.00	27710	0.0	18.19	1	25	Back	0	0.825	23.0	1	1 🗆
Phablet	LTE Band 30	10	QPSK	F	1285M	1:1	0.00	2310.00	27710	0.0	18.19	1	25	Front	0	1.000	22.1	19.6	18.0
Phablet	LTE Band 30	10	QPSK	F	1285M	1:1	-0.09	2310.00	27710	0.0	18.19	1	25	Top	0	1.770	19.6	19.0	10.0
Phablet	LTE Band 30	10	QPSK	F	1285M	1:1	0.06	2310.00	27710	0.0	18.19	1	25	Left	0	0.105	31.9	J	

Table A-14 DSI = 0 P_{Limit} Calculations – LTE B7 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 7	20	QPSK	В	1285M	1:1	0.01	2510.00	20850	0.0	19.73	50	0	Back	0	1.730	21.3		
Phablet	LTE Band 7	20	QPSK	В	1285M	1:1	-0.12	2510.00	20850	0.0	19.73	50	0	Front	0	0.862	24.3	21.3	19.0
Phablet	LTE Band 7	20	QPSK	В	1285M	1:1	0.01	2510.00	20850	0.0	19.73	50	0	Bottom	0	1.210	22.8	21.3	19.0
Phablet	LTE Band 7	20	QPSK	В	1302M	1:1	0.19	2510.00	20850	0.0	19.73	50	0	Left	0	1.100	23.2		J
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number		Power Drift [dB]	Frequency [MHz]		MPR [dB]	Power [dbm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 7	20	QPSK	F	1285M	1:1	0.03	2535.00	21100	0.0	16.95	50	0	Back	0	0.972	21.0		
Phablet	LTE Band 7	20	QPSK	F	1285M	1:1	-0.01	2535.00	21100	0.0	16.95	50	0	Front	0	1.070	20.6	18.4	17.0
Phablet	LTE Band 7	20	QPSK	F	1285M	1:1	-0.02	2535.00	21100	0.0	16.95	50	0	Top	0	1.770	18.4	10.4	17.0
Phablet	LTE Band 7	20	QPSK	F	1285M	1:1	0.01	2535.00	21100	0.0	16.95	50	0	Left	0	0.126	29.9		J

Table A-15 DSI = 0 P_{Limit} Calculations – LTE B41 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 41	20	QPSK	В	1249M	1:1.58	-0.01	2636.50	41055	0.0	21.84	1	0	Back	0	1.130	23.3		
Phablet	LTE Band 41	20	QPSK	В	1249M	1:1.58	0.01	2636.50	41055	0.0	21.84	1	0	Front	0	0.994	23.8	22.4	19.0
Phablet	LTE Band 41	20	QPSK	В	1249M	1:1.58	0.02	2636.50	41055	0.0	21.84	1	0	Bottom	0	0.932	24.1	22.4	15.0
Phablet	LTE Band 41	20	QPSK	В	1249M	1:1.58	-0.05	2636.50	41055	0.0	21.84	1	0	Left	0	1.380	22.4	1	
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.01	2506.00	39750	0.0	18.32	50	50	Back	0	0.721	21.7		
Phablet	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	18.32	50	50	Front	0	0.755	21.5	19.6	16.0
Phablet	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.04	2506.00	39750	0.0	18.32	50	50	Top	0	1.160	19.6	19.0	10.0
Phablet	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.15	2506.00	39750	0.0	18.32	50	50	Left	0	0.098	30.4		

Table A-16 DSI = 0 *P*_{Limit} Calculations – LTE B48 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.05	3646.70	56207	0.0	21.64	1	99	Back	0	0.941	23.8		
Phablet	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.04	3646.70	56207	0.0	21.64	1	99	Front	0	0.814	24.5	21.4	19.0
Phablet	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.02	3646.70	56207	0.0	21.64	1	99	Тор	0	1.650	21.4	21.4	19.0
Phablet	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.00	3646.70	56207	0.0	21.64	1	99	Left	0	0.159	31.6		

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Table A-17
DSI = 0 P_{Limit} Calculations – NR n71 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n71	35	QPSK	A	1266M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	24.40	1	94	Back	0	0.987	28.4		
Phablet	NR Band n71	35	QPSK	A	1266M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	24.40	1	94	Front	0	0.761	29.5	1	
Phablet	NR Band n71	35	QPSK	A	1266M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	24.40	1	94	Bottom	0	0.533	31.1	28.4	28.4
Phablet	NR Band n71	35	QPSK	A	1266M	1:1	-0.12	680.50	136100	DFT-s-OFDM	0.0	24.40	1	94	Right	0	0.137	37.0		
Phablet	NR Band n71	35	QPSK	A	1266M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	24.40	1	94	Left	0	0.190	35.5		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n71	20	QPSK	E	1255M	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	23.82	1	104	Back	0	0.767	28.9		
Phablet	NR Band n71	20	QPSK	E	1252M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	23.82	1	104	Front	0	0.596	30.0	28.9	28.9
Phablet	NR Band n71	20	QPSK	E	1252M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	23.82	1	104	Тор	0	0.767	28.9	20.5	20.5
Phablet	NR Band n71	20	QPSK	E	1252M	1:1	0.13	680.50	136100	DFT-s-OFDM	0.0	23.82	1	104	Right	0	0.311	32.8		

Table A-18
DSI = 0 P_{Limit} Calculations – NR n12 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n12	15	QPSK	А	1266M	1:1	-0.06	707.50	141500	DFT-s-OFDM	0.0	24.71	1	1	Back	0	0.862	29.3		
Phablet	NR Band n12	15	QPSK	A	1266M	1:1	-0.07	707.50	141500	DFT-s-OFDM	0.0	24.71	1	1	Front	0	0.691	30.2	1	
Phablet	NR Band n12	15	QPSK	A	1266M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	24.71	1	1	Bottom	0	0.476	31.9	29.3	28.6
Phablet	NR Band n12	15	QPSK	A	1266M	1:1	-0.20	707.50	141500	DFT-s-OFDM	0.0	24.71	1	1	Right	0	0.113	38.1		
Phablet	NR Band n12	15	QPSK	A	1266M	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	24.71	1	1	Left	0	0.289	34.0		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n12	15	QPSK	E	1255M	1:1	0.07	707.50	141500	DFT-s-OFDM	0.0	24.37	1	40	Back	0	0.902	28.7		
Phablet	NR Band n12	15	QPSK	E	1252M	1:1	-0.08	707.50	141500	DFT-s-OFDM	0.0	24.37	1	40	Front	0	0.911	28.7	28.2	28.2
Phablet	NR Band n12	15	QPSK	E	1252M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	24.37	1	40	Тор	0	1.030	28.2	20.2	20.2
Phablet	NR Band n12	15	QPSK	E	1252M	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	24.37	1	40	Right	0	0.429	32.0	l	

Table A-19
DSI = 0 P_{Limit} Calculations – NR n14 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n14	10	QPSK	A	1266M	1:1	-0.09	793.00	158600	DFT-s-OFDM	0.0	24.32	1	26	Back	0	0.907	28.7		
Phablet	NR Band n14	10	QPSK	A	1266M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	24.32	1	26	Front	0	0.707	29.8		
Phablet	NR Band n14	10	QPSK	A	1266M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	24.32	1	26	Bottom	0	0.474	31.5	28.7	28.7
Phablet	NR Band n14	10	QPSK	A	1266M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	24.32	1	26	Right	0	0.146	36.6		
Phablet	NR Band n14	10	QPSK	A	1266M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	24.32	1	26	Left	0	0.456	31.7		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[dB]	[MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]		RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	23.82	25	14	Back	0	1.140	27.2		
Phablet	NR Band n14	10	QPSK	E	1252M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	23.82	25	14	Front	0	1.070	27.5	26.9	26.8
Phablet	NR Band n14	10	QPSK	E	1252M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	23.82	25	14	Тор	0	1.210	26.9	20.5	20.8
Phablet	NR Band n14	10	QPSK	E	1252M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	23.82	25	14	Right	0	0.539	30.4		

Table A-20
DSI = 0 *P*_{Limit} Calculations – NR n26 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n26	20	QPSK	A	1266M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.00	1	104	Back	0	1.070	27.6		
Phablet	NR Band n26	20	QPSK	A	1266M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	24.00	1	104	Front	0	0.764	29.1		
Phablet	NR Band n26	20	QPSK	A	1266M	1:1	0.00	831.50	166300	DFT-s-OFDM	0.0	24.00	1	104	Bottom	0	0.529	30.7	27.6	27.6
Phablet	NR Band n26	20	QPSK	A	1266M	1:1	0.13	831.50	166300	DFT-s-OFDM	0.0	24.00	1	104	Right	0	0.148	36.2		
Phablet	NR Band n26	20	QPSK	A	1266M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	24.00	1	104	Left	0	0.654	29.8		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[dB]	[MHz]	Channel #		MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n26	20	QPSK	E	1255M	1:1	-0.07	831.50	166300	DFT-s-OFDM	0.0	23.56	1	104	Back	0	1.120	27.0		
Phablet	NR Band n26	20	QPSK	E	1252M	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	23.56	1	104	Front	0	0.730	28.9	27.0	25.8
Phablet	NR Band n26	20	QPSK	E	1252M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	23.56	1	104	Тор	0	0.945	27.7	27.0	23.0
Phablet	NR Band n26	20	QPSK	E	1252M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	23.56	1	104	Right	0	0.129	36.4]	

Table A-21 DSI = 0 *P*_{Limit} Calculations – NR n70 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]		EFS Plimit [dBm]
Phablet	NR Band n70	15	QPSK	A	1263M	1:1	-0.02	1702.50	340500	CP-OFDM	0.0	19.35	1	1	Back	0	0.761	24.5	l	
Phablet	NR Band n70	15	QPSK	A	1263M	1:1	-0.04	1702.50	340500	CP-OFDM	0.0	19.35	1	1	Front	0	0.782	24.3	I	
Phablet	NR Band n70	15	QPSK	A	1263M	1:1	-0.08	1702.50	340500	CP-OFDM	0.0	19.35	1	1	Bottom	0	0.959	23.5	23.5	19.0
Phablet	NR Band n70	15	QPSK	A	1263M	1:1	-0.02	1702.50	340500	CP-OFDM	0.0	19.35	1	1	Right	0	0.038	37.5	I	
Phablet	NR Band n70	15	QPSK	A	1263M	1:1	-0.02	1702.50	340500	CP-OFDM	0.0	19.35	1	1	Left	0	0.168	31.0		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n70	15	QPSK	F	1243M	1:1	0.08	1702.50	340500	CP-OFDM	0.0	19.44	1	1	Back	0	0.944	23.6		
Phablet	NR Band n70	15	QPSK	F	1243M	1:1	0.02	1702.50	340500	CP-OFDM	0.0	19.44	1	1	Front	0	0.882	23.9	20.1	19.0
Phablet	NR Band n70	15	QPSK	F	1243M	1:1	-0.02	1702.50	340500	CP-OFDM	0.0	19.44	1	1	Тор	0	2.110	20.1	10.1	15.0
Phablet	NR Band n70	15	QPSK	F	1243M	1:1	0.02	1702.50	340500	CP-OFDM	0.0	19.44	1	1	Left	0	0.426	27.1		

Table A-22 DSI = 0 P_{Limit} Calculations – NR n66 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n66	40	QPSK	А	1190M	1:1	0.09	1745.00	349000	CP-OFDM	0.0	18.74	1	1	Back	0	1.370	21.3		
Phablet	NR Band n66	40	QPSK	A	1190M	1:1	0.00	1745.00	349000	CP-OFDM	0.0	18.74	1	1	Front	0	1.340	21.4		
Phablet	NR Band n66	40	QPSK	A	1190M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	18.74	1	1	Bottom	0	1.590	20.7	20.7	18.5
Phablet	NR Band n66	40	QPSK	A	1190M	1:1	-0.08	1745.00	349000	CP-OFDM	0.0	18.74	1	1	Right	0	0.160	30.6		
Phablet	NR Band n66	40	QPSK	A	1190M	1:1	-0.10	1745.00	349000	CP-OFDM	0.0	18.74	1	1	Left	0	0.261	28.5		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n66	40	QPSK	F	1243M	1:1	0.03	1745.00	349000	CP-OFDM	0.0	20.25	1	1	Back	0	0.956	24.4		
Phablet	NR Band n66	40	QPSK	F	1243M	1:1	-0.02	1745.00	349000	CP-OFDM	0.0	20.25	1	1	Front	0	0.927	24.5	20.7	20.0
Phablet	NR Band n66	40	QPSK	F	1243M	1:1	0.02	1745.00	349000	CP-OFDM	0.0	20.25	1	1	Тор	0	2.220	20.7	20.7	20.0
Phablet	NR Band n66	40	QPSK	F	1243M	1:1	0.02	1745.00	349000	CP-OFDM	0.0	20.25	1	1	Left	0	0.417	28.0		

Table A-23 DSI = 0 *P*_{Limit} Calculations – NR n25 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n25	40	QPSK	A	1190M	1:1	0.04	1882.50	376500	CP-OFDM	0.0	18.24	1	1	Back	0	0.876	22.7		
Phablet	NR Band n25	40	QPSK	A	1190M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	18.24	1	1	Front	0	1.050	22.0		
Phablet	NR Band n25	40	QPSK	A	1190M	1:1	0.07	1882.50	376500	CP-OFDM	0.0	18.24	1	1	Bottom	0	1.070	21.9	21.9	18.0
Phablet	NR Band n25	40	QPSK	A	1190M	1:1	-0.15	1882.50	376500	CP-OFDM	0.0	18.24	1	1	Right	0	0.125	31.2		
Phablet	NR Band n25	40	QPSK	A	1190M	1:1	-0.04	1882.50	376500	CP-OFDM	0.0	18.24	1	1	Left	0	0.179	29.6		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n25	40	QPSK	F	1243M	1:1	0.08	1882.50	376500	CP-OFDM	0.0	20.39	1	1	Back	0	1.010	24.3		
Phablet	NR Band n25	40	QPSK	F	1243M	1:1	0.03	1882.50	376500	CP-OFDM	0.0	20.39	1	1	Front	0	0.879	24.9	21.1	20.0
Phablet	NR Band n25	40	QPSK	F	1243M	1:1	0.02	1882.50	376500	CP-OFDM	0.0	20.39	1	1	Тор	0	2.090	21.1	21.1	20.0
Phablet	NR Band n25	40	QPSK	F	1243M	1:1	0.03	1882.50	376500	CP-OFDM	0.0	20.39	1	1	Left	0	0.421	28.1		

Table A-24 DSI = 0 *P*_{Limit} Calculations – NR n30 Phablet SAR

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n30	10	QPSK	A	1285M	1:1	-0.05	2310.00	462000	CP-OFDM	0.0	19.29	1	1	Back	0	0.933	23.5		
Phablet	NR Band n30	10	QPSK	A	1285M	1:1	-0.04	2310.00	462000	CP-OFDM	0.0	19.29	1	1	Front	0	0.491	26.3		
Phablet	NR Band n30	10	QPSK	A	1285M	1:1	-0.14	2310.00	462000	DFT-s-OFDM	0.0	19.26	1	1	Bottom	0	1.060	22.9	22.9	19.0
Phablet	NR Band n30	10	QPSK	A	1285M	1:1	0.03	2310.00	462000	CP-OFDM	0.0	19.29	1	1	Right	0	0.171	30.9		
Phablet	NR Band n30	10	QPSK	A	1285M	1:1	-0.10	2310.00	462000	CP-OFDM	0.0	19.29	1	1	Left	0	0.233	29.5		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n30	10	QPSK	F	1285M	1:1	-0.03	2310.00	462000	DFT-s-OFDM	0.0	18.09	1	50	Back	0	0.923	22.4		
Phablet	NR Band n30	10	QPSK	F	1285M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	18.09	1	50	Front	0	0.962	22.2	20.6	18.0
Phablet	NR Band n30	10	QPSK	F	1285M	1:1	-0.06	2310.00	462000	DFT-s-OFDM	0.0	18.09	1	50	Тор	0	1.390	20.6	20.0	10.0
Phablet	NR Band n30	10	QPSK	F	1285M	1:1	-0.02	2310.00	462000	DFT-s-OFDM	0.0	18.09	1	50	Left	0	0.110	31.6		

Table A-25 DSI = 0 *P_{Limit}* Calculations – NR n7 Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n7	50	QPSK	В	1285M	1:1	-0.14	2535.00	507000	CP-OFDM	0.0	19.34	1	1	Back	0	1.640	21.1		
Phablet	NR Band n7	50	QPSK	В	1285M	1:1	-0.01	2535.00	507000	CP-OFDM	0.0	19.34	1	1	Front	0	0.907	23.7	21.1	19.0
Phablet	NR Band n7	50	QPSK	В	1285M	1:1	0.00	2535.00	507000	CP-OFDM	0.0	19.34	1	1	Bottom	0	1.220	22.4	211	19.0
Phablet	NR Band n7	50	QPSK	В	1285M	1:1	-0.07	2535.00	507000	CP-OFDM	0.0	19.34	1	1	Left	0	1.090	22.9	Ì	1

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n7	50	QPSK	F	1285M	1:1	0.11	2535.00	507000	CP-OFDM	0.0	18.20	1	1	Back	0	0.994	22.2		
Phablet	NR Band n7	50	QPSK	F	1285M	1:1	0.00	2535.00	507000	CP-OFDM	0.0	18.20	1	1	Front	0	0.944	22.4	20.4	18.0
Phablet	NR Band n7	50	QPSK	F	1285M	1:1	-0.02	2535.00	507000	CP-OFDM	0.0	18.20	1	1	Тор	0	1.480	20.4	20.4	10.0
Phablet	NR Band n7	50	QPSK	F	1285M	1:1	0.03	2535.00	507000	CP-OFDM	0.0	18.20	1	1	Left	0	0.153	30.3		

Table A-26

DSI = 0 PLimit Calculations - NR n41 Phablet SAR

Exposure Band / Mode Bandwidth Service / Ant. Serial Number Duty Cycle Power Frequency Channel # Waveform MPR (dB) Conducted RB Size R			
cxposure barra / mode [MHz] Modulation Ann. Sensi number outy-cycle Drift [dB] [MHz] Chariner # waverorm wrw. (ub) Power [dBm] No Size No Size	RB Offset Test Position Sp	Spacing [mm] Measured 10g Plimit P	overall EFS Plimit Plimit (dBm) [dBm]
Phablet NR Band n41 100 QPSK B 1298M 1:1 0.00 2592.99 518598 CP-OFDM 0.0 20.77 1	1 Back	0 2.140 21.4	$\overline{}$
Phablet NR Band n41 100 QPSK B 1298M 1:1 0.09 2592.99 518598 CP-OFDM 0.0 20.77 1	1 Front	0 1 100 22 0	
Phablet NR Band n41 100 QPSK B 1298M 1:1 0.03 2592.99 518598 CP-0FDM 0.0 20.77 1	1 Bottom	0 1.420 23.2	21.4 20.0
Phablet NR Band n41 100 QPSK B 1298M 1:1 -0.04 2592.99 518598 CP-OFDM 0.0 20.77 1	1 Left	0 1.530 22.9	
Exposure Band / Mode Bandwidth [MHz] Ant. Serial Number Duty Cycle Power Drift [db] Frequency [MHz] Channel # Waveform Conducted Power [dbm] Test	st Position Spacing [mn	Measured 10g Plimit Over Plim (dBm) (dBm)	nit Plimit
Phablet NR Band n41 100 E 1294M 1:1 0.09 2592.99 518598 CW/SRS 18.24	Back 0	0.589 24.5	
Phablet NR Band n41 100 E 1294M 1:1 -0.06 2592.99 518598 CW/SRS 18.24	Front 0	0.662 24.0	
Phablet NR Band n41 100 E 1294M 1:1 0.04 2592.99 518598 CW/SRS 18.24	Top 0	0.409 26.1	.3 17.5
	Right 0	0.969 22.3	
Exposure Band / Mode Bandwidth [MHz] Ant. Serial Number Duty Cycle Power Drift [dB] Frequency [MHz] Channel # Waveform Power [dBm] Test	st Position Spacing (mn	Measured 10g Plimit SAR [W/kg] [dBm] [dBr	nit Plimit
Phablet NR Band n41 100 D 1294M 1:1 0.06 2592.99 518598 CW/SRS 16.01	Back 0	0.622 22.0	
Phablet NR Band n41 100 D 1294M 1:1 -0.09 2592.99 518598 CW/SRS 16.01	Front 0	0.063 31.9	.
	Bottom 0	0.062 32.0 22.0	.0 15.5
	Right 0	0.004 43.9	
Bandwidth Sandra / Bouse Francery Conducted	RB Offset Test Position Sp	Spacing [mm] Measured 10g Plimit P	Iverall EFS Plimit Plimit dBm] [dBm]
	1		
Phablet NR Band n41 100 QPSK F 1294M 1:1 0.06 2592-99 518598 CP-OFDM 0.0 17.24 1	1 Back	0 0.429 24.8	
	1 Back 1 Front	0 0.626 22.1	20.0
Phablet NR Band n41 100 QPSK F 1294M 1:1 0.06 2592.99 518598 CP-OFDM 0.0 17.24 1		0 0.626 22.1	20.8 16.5

Table A-27

	DSI = 0 P _{Limit} Calculations					ions	- NR n48 Phablet SAR												
Exposure	Band / Mo	de	Bandwidth [MHz]	Ant.		ımber Du		Power Drift [dB]	Frequency [MHz]			Waveform	Conducted Power [dBm]		Spacing (mm	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n	48	40	С	1298	м	1:1	0.08	3624.99	641	666	CW/SRS	13.27	Back	0	0.355	21.7		
Phablet	NR Band n	48	40	С	1298	М	1:1	0.05	3624.99	641	666	CW/SRS	13.27	Front	0	0.243	23.3	1	
Phablet	NR Band n	48	40	С	1298	М	1:1	0.03	3624.99	641	666	CW/SRS	13.27	Bottom	0	0.078	28.3	21.3	13.0
Phablet	NR Band n	48	40	С	1298	М	1:1	-0.02	3624.99	641	666	CW/SRS	13.27	Left	0	0.393	21.3		
Exposure	Band / Mo	de	Bandwidth [MHz]	Ant.	Serial Nu	ımber Du	ity Cycle	Power Drift [dB]	Frequency [MHz]	' Chan	nel#	Waveform	Conducted Power [dBm]	Test Position	Spacing [mm	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n	48	40	D	1298	M	1:1	-0.01	3624.99	641	666	CW/SRS	12.05	Back	0	0.570	18.4		
Phablet	NR Band n	48	40	D	1298	M	1:1	-0.07	3624.99	641	666	CW/SRS	12.05	Front	0	0.051	28.9	18.4	11.5
Phablet	NR Band n	48	40	D	1298	M	1:1	0.03	3624.99	641	666	CW/SRS	12.05	Bottom	0	0.046	29.4	10.4	11.5
Phablet	NR Band n	48	40	D	1298	M	1:1	0.13	3624.99	641	666	CW/SRS	12.05	Right	0	0.016	33.9		
Exposure Phablet	Band / Mode NR Band n48	Bandwidth [MHz]	Service / Modulation	Ant. Ser	ial Number D	tuty Cycle	Power Drift [dB]	Frequency [MHz]	Channel # 641666	Waveform DFT-s-OFDM	MPR [dB	Max Allowed Power [dBm]	Conducted Power [dBm]	B Size RB Offse	t Test Position !	SAR SAR		Overa Plimi [dBm	t Plimit
Phablet	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99		DFT-s-OFDM	0.0	19.0	18.28	50 28	Front	0 0	696 2	3.8	18.0
Phablet	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99 3624.99		DFT-s-OFDM	0.0	19.0	18.28 18.28	50 28	Top Left			0.3	10.0
Phablet	NR Band n48	40	QPSK	F	ANSI/IEEE C95	patial Peak			641666	DFT-s-OFDM	0.0	19.0	18.28	50 28	Pha 4.0 W/k	blet	136 3	0.9	
Exposure	Band / Mo	de	Bandwidth [MHz]	Ant.	Serial Nu	ımber Du	ity Cycle	Power Drift [dB]	Frequency [MHz]	' Chan	nel#	Waveform	Conducted Power [dBm]	Test Position	Spacing [mm	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n	48	40	1	1298	M	1:1	0.05	3624.99	641	666	CW/SRS	16.26	Back	0	0.606	22.4		
Phablet	NR Band n	48	40	- 1	1298	M	1:1	0.01	3624.99	641	666	CW/SRS	16.26	Front	0	0.890	20.7	20.7	16.0
Phablet	NR Band n	48	40	- 1	1298	M	1:1	0.09	3624.99	641	666	CW/SRS	16.26	Тор	0	0.036	34.6	20.7	16.0
Phablet	NR Band n	48	40	I	1298	M	1:1	0.02	3624.99	641	666	CW/SRS	16.26	Left	0	0.271	25.9		

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Table A-28 DSI = 0 *P*_{Limit} Calculations – NR n77 Phablet SAR

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Exposure	Band / Mode		Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n77 D	oD	100	С	1313M	1:1	-0.05	3500.01	633334	CW/SRS	11.61	Back	0	0.291	20.9		
Phablet	NR Band n77	,	100	С	1313M	1:1	-0.01	3750.00	650000	CW/SRS	11.81	Back	0	0.193	22.9		
Phablet	NR Band n77	,	100	C	1313M	1:1	0.02	3750.00	650000	CW/SRS	11.81	Front	0	0.073	27.1	20.9	11.0
Phablet	NR Band n77		100	C	1313M	1:1	-0.05	3750.00	650000	CW/SRS	11.81	Bottom	0	0.078	26.8		
Phablet	NR Band n77	_	100	С	1313M	1:1	-0.02	3750.00	650000	CW/SRS	11.81	Left	0	0.267	21.5		
Exposure	Band / Mode		Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n77 D	oD	100	D	1313M	1:1	-0.04	3500.01	633334	CW/SRS	10.48	Back	0	0.255	20.3		
Phablet	NR Band n77	,	100	D	1313M	1:1	-0.09	3750.00	650000	CW/SRS	10.81	Back	0	0.226	21.2		
Phablet	NR Band n77	,	100	D	1313M	1:1	0.21	3750.00	650000	CW/SRS	10.81	Front	0	0.023	31.1	20.3	10.0
Phablet	NR Band n77		100	D	1313M	1:1	0.10	3750.00	650000	CW/SRS	10.81	Bottom	0	0.036	29.2		
Phablet	NR Band n77		100	D	1313M	1:1	-0.14	3750.00	650000	CW/SRS	10.81	Right	0	0.013	33.6		
Exposure	Band / Mode	Bandwid [MHz]	th Service / Modulation	Ant.	Serial Number Du		wer Frequ :[dB] [MH		# Waveform		onducted RB Siz	e RB Offset T	est Position Spac	ing [mm] Measure SAR [W			Plimit
Phablet	NR Band n77	100	QPSK	F	1313M		.02 3750		DFT-s-OFDM	0.0	17.66 1	1	Back	0 0.69			
Phablet	NR Band n77	100	QPSK	F	1313M		06 3750		DFT-s-OFDM	0.0	17.66 1	1	Front	0 0.38			17.0
Phablet Phablet	NR Band n77 NR Band n77	100 100	QPSK QPSK	F	1313M 1313M	1:1 -0. 1:1 0.	.07 3750 .07 3750		DFT-s-OFDM DFT-s-OFDM	0.0	17.66 1 17.66 1	1 1	Top Left	0 1.08		3	
Exposure	Band / Mode		Bandwidth [MHz]	Ant.	Serial Number		Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Conducted Power [dBm]		Spacing [mm]	Measured 10g SAR [W/kg]		Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	NR Band n77 D	oD	100	1	1313M	1:1	0.00	3500.01	633334	CW/SRS	15.40	Back	0	0.449	22.8		
Phablet	NR Band n77		100	1	1313M	1:1	0.08	3750.00	650000	CW/SRS	15.47	Back	0	0.435	23.0		
Phablet	NR Band n77		100		1313M	1:1	-0.07	3750.00	650000	CW/SRS	15.47	Front	0	0.279	24.9	22.8	15.0
Phablet	NR Band n77		100	1	1313M	1:1	-0.04	3750.00	650000	CW/SRS	15.47	Тор	0	0.020	36.4		
Phablet	NR Band n77	,	100	1	1313M	1:1	0.03	3750.00	650000	CW/SRS	15.47	Left	0	0.182	26.8		

Table A-29

DSI = 0 P_{Limit} Calculations - 2.4 GHz WLAN Phablet SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	n Ant.	Serial Nurr	Duty Cycle [%]	Power Drif [dB]	t Frequei [MHz		Channel#	Data Rate [Mbps]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Н	1262M	98.90	-0.02	2437.0	00	6	1	19.47	Back	0	1.610	21.3		
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Н	1262M	98.90	0.00	2437.0	00	6	1	19.47	Front	0	1.230	22.5	20.1	20.1
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Н	1262M	98.90	0.00	2437.0	00	6	1	19.47	Тор	0	0.590	25.6	20.1	20.1
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	Н	1262M	98.90	-0.01	2437.0	00	6	1	19.47	Left	0	2.130	20.1		
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	n Ant.	Serial Num	Duty Cycle [%]	Power Drif [dB]	t Frequei [MHz		Channel#	Data Rate [Mbps]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	J	1262M	98.99	0.01	2437.0	00	6	1	19.48	Back	0	0.476	26.6		
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	J	1262M	98.99	0.02	2437.0	00	6	1	19.48	Front	0	0.666	25.1	25.1	25.4
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	J	1262M	98.99	0.05	2437.0	00	6	1	19.48	Тор	0	0.017	41.1	25.1	25.1
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	J	1262M	98.99	-0.10	2437.0	00	6	1	19.48	Right	0	0.249	29.4		1 1
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	erial Number	uty Cycle Pow [%] [4		quency VIHz]	Channel #	# Data Rat # [Mbps]			nd Test Position	on Spacing (mn	n] Measured 10a	g Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	MIMO	1262M	98.82 -0	.01 24	37.00	6	6.5	19.20	19.95	Back	0	1.040	22.9		
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	MIMO	1262M	98.82 -0	.01 24	37.00	6	6.5	19.20	19.95	Front	0	1.180	22.4		
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	MIMO	1262M			37.00	6	6.5	19.20			0	0.532	25.8	19.6	19.6
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	MIMO	1262M			37.00	6	6.5	19.20		Right	0	0.223	29.6		
Phablet	2.4 GHz WIFI/ IEEE 802.11b	22	DSSS	MIMO	1262M	98.82 -0	.03 24	37.00	6	6.5	19.20	19.95	Left	0	2.220	19.6		1

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Table A-30 DSI = 0 *P*_{Limit} Calculations – 2.4 GHz Bluetooth Standalone SAR

Evnosure Rand / Mode Ant Serial Number Channel # Test Position Spacing [mm]		imit Overall Bm] [dBm]	Plimit
Phablet 2.4 GHz Bluetooth LE DSSS H 1262M 85.28 -0.04 2402.00 0 1 18.39 Back 0	0.717 23	3.1	1
Phablet 2.4 GHz Bluetooth LE DSSS H 1262M 85.28 0.01 2402.00 0 1 18.39 Front 0	0.904 22	20.2	20.2
Phablet 2.4 GHz Bluetooth LE DSSS H 1262M 85.28 0.00 2402.00 0 1 18.39 Top 0	0.333 26	16.4	20.2
Phablet 2.4 GHz Bluetooth LE DSSS H 1262M 85.28 0.01 2402.00 0 1 18.39 Left 0	1.380 20	0.2	
Exposure Rand / Mode Ant Serial Number Channel # Test Position Spacing [mm]		imit Overall Bm] Plimit [dBm]	Plimit
Phablet 2.4 GHz Bluetooth LE DSSS J 1262M 85.33 0.07 2440.00 19 1 18.02 Back 0	0.185 28	8.6	
Phablet 2.4 GHz Bluetooth LE DSSS J 1262M 85.33 0.06 2440.00 19 1 18.02 Front 0	0.274 26	26.9	26.9
Phablet 2.4 GHz Bluetooth LE DSSS J 1262M 85.33 0.08 2440.00 19 1 18.02 Top 0	0.008 42	20.5	20.5
Phablet 2.4 GHz Bluetooth LE DSSS J 1262M 85.33 -0.04 2440.00 19 1 18.02 Right 0	0.105 31	1.0	
		Plimit Overa Plimit [dBm]	t Plimit
Phablet 2.4 GHz Bluetooth LE DSSS MIMO 1262M 85.33 0.02 2402.00 0 1 12.35 11.92 Back 0	0.176	22.7	
Phablet 2.4 GHz Bluetooth LE DSSS MIMO 1262M 85.33 0.00 2402.00 0 1 12.35 11.92 Front 0	0.219	21.8	
Phablet 2.4 GHz Bluetooth LE DSSS MIMO 1262M 85.33 0.00 2402.00 0 1 12.35 11.92 Top 0	0.069	26.8 19.3	19.3
Phablet 2.4 GHz Bluetooth LE DSSS MIMO 1262M 85.33 0.09 2402.00 0 1 12.35 11.92 Right 0	0.036	29.6	
Phablet 2.4 GHz Bluetooth LE DSSS MIMO 1262M 85.33 -0.19 2402.00 0 1 12.35 11.92 Left 0	0.387	19.3	

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ELEMENT MATERIALS TECHNOLOGY

(formerly PCTEST)
7185 Oakland Mills Road, Columbia, MD 21046 USA
Tel. +1.410.290.6652 / Fax +1.410.290.6654
http://www.element.com



RF Exposure Part 1 Test Report

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea Date of Testing: 09/02/2024-10/28/2024 Test Site/Locations: Element, Columbia, MD, USA Element, Morgan Hill, C A, USA Element, Suwon Document Serial No.:

1M2408260064-23.A3L (Rev 1)

FCC ID: A3LSMS936U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset Application Type: Certification

FCC Rule Part(s):CFR §2.1093Model(s):SM-S936UAdditional Model(s):SM-S936U1

				- 9	W.	
Equipment Class	Sand & Mode	Ts Frequency	1g Head (W/kg)	tg Body Worn (Wikg)	1g Hotspot (Wileg)	10g Phubie (WAg)
PCE	GSM/GPRG/EDGE 850	824.20 - 848.80 MHz	0.56	0.54	0.58	NA.
PCE	GSMGPRS/EDGE 1900	1950.20 - 1909.90 MHz	0.11	0.30	0.57	NA.
PCE	UMTS 850	909.40 - 846.60 MHz	0.90	0.37	0.42	NA.
PCE	UMTS 1750	1712.4 - 1752.618-0	0.17	0.54	1.09	NA
PCE	UMTS 1900	1852.4 - 1907.6 MHz	0.21	0.40	671	NA
PCS	LTE Rand 71	6655 - 695 SMHz	0.42	0.42	0.42	N/A
PCE	LTE Rand 12	6997 - 715 3 MHz	0.86	0.52	0.52	NA.
PCS	LTE Band 13	779.5 - 784.5 MHz	1.12	980	676	NA NA
PCS	LTE Band 29	8147 - ME3 MHz	1.00	0.00	0.74	NA NA
PCS	LTS Band S	8247 - 848.3 M/g	201	NA.	574	200
PCE	LTE Rand 66	17107 - 1779.31MHz	0.96	0.00	0.92	NA.
POS	LTE Band 6	17107 - 1754.3 MHz	NA.	NA.	NA.	N/A
PCE	LTE Rand 25	1850.7 - 1914.3 MHz	110	0.40	0.81	NA.
270	LTE Band 2		NA.	NA.	NA	NA
PCS	LTE Rand 30	2307.5 - 2312.5 MHz	1.06	0.30	951	NA.
PCS	LTE Band 7	2502.5 - 2567.5 MHz	0.68	0.35	9.47	NA
PCE	LTE Band 41	2690.5 - 2687.5 MHz	0.44	0.20	0.25	NA.
PCE	LTE Band 38	2572.5 - 2017.5 MHz	NA.	NA	NA.	NA.
CBE	LTE Rand 48	3652.5 - 3697.5 MHz	0.56	0.24	0.32	N/A
PCE	NR Band n71	6655 - 695 5 MHz	0.36	0.56	0.56	NA
PCE	NR Rand et2	701.5 - 713.5 MHz	0.61	0.46	0.49	NA
PCS	NR Band nt4	790.5 - 795.5 MHz	1.05	0.66	0.99	NA
PCS	NR Sand r26	B16.5 - B46.5 MHz	1.14 MA	0.91	0.81	NA.
PCS	NR Band 170	1997.5 - 1707.5 MHz	0.77	0.50	036	NA NA
PCE		17125 - 1777.5184	0.77		189	NA NA
PCS	NR Sand nSS NR Sand nSS	18525 - 1912.5184	0.78	0.60	0.98	NA NA
9CS	MC Band rid	18525 - 1907 51840	0.56	0.40 Mili	DUA.	N/A
376	NR Rand n30	2007.5 - 2212.5 MHz	0.90	0.27	0.58	NA.
PCS	NR stand r/	2502.5 - 2567.5 MHz	0.79	0.24	0.65	N/A
PCS	NR Rand od1		0.62	0.20	0.29	NA.
PCS	NR Rand nilli	2575 - 2615 MHz	NA.	NA.	NA.	NA.
CBE	NR Band o48	2555 - 3094 99 MHz	0.72	0.31	0.42	NA.
PCE	NR Band n79	3455.01 - 3544.90 MHz:	NA	NA.	NA.	N/A
PCE	NR Band n77	3455.01 - 3544.90 MHz; 3705 - 3975 MHz	5.11	0.28	0.50	NA.
DTS	2.4 GHz WFI	2412 - 2402 MHz	0.51	0.21	0.52	N/A
NI	S GHz WIFI	U-NB-1: 5180 - 5360 MHz U-NB-0A: 5360 - 5320 MHz U-NB-0C: 5560 - 5720 MHz U-NB-3: 5745 - 5805 MHz U-NB-4: 5845 - 5885 MHz	0.62	8.53	0.46	2.43
600	6 GHz WFI	U-NB-S: 5945 - 6415 Mile: U-NB-S: 6435 - 6515 Mile: U-NB-7: 6535 - 6875 Mile: U-NB-R: 6895 - 7115 Mile:	0.14	0.13	NA.	0.29
066	2.4 GHz Blueboth	2602 - 2600 MHz	0.30	0.25	0.33	NA.
TNE	NTN Band 255	1629 - 1658 MHz	NA	9.72	NA.	2.01
	JAR per KEB 690783 Donvion	22	1.59	154	1.59	2.94
Equipment	Rand & Mode	Tx Frequency	Head	APD (Wittin'S)	Chahia	Reported P
CMM			Head	Sody-Wort	PTablet	(W/m/2)
eco	6 GHz WIFI	U-NI-S: 5935 - 6415 MHz U-NI-S: 6435 - 6515 MHz U-NI-7: 6535 - 6875 MHz U-NI-S: 6895 - 7115 MHz	0.79	0.96	12.29	6.72
UWB	UWR	G6996 - 7987 2 MHz	NA.	NA.	49.1	0.20

Note: This revised test report supersedes and replaces the previously issued test report on the same subject device for the same type of testing as indicated. Please discard or destroy the previously issued test report(s) and dispose of it accordingly.

This wireless portable device has been shown to be capable of compliance for localized specific absorption rate (SAR) for uncontrolled environment/general population exposure limits specified in ANSI/IEEE C95.1-1992 and has been tested in accordance with the measurement procedures specified in Section 2.9 of this report; for North American frequency bands only.

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.









The SAR Tick is an initiative of the Mobile & Wireless Forum (MWF). While a product may be considered eligible, use of the SAR Tick logo requires an agreement with the MWF. Further details can be obtained by emailing: sartick@mwfai.info.

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APPEN APPEN APPEN APPEN APPEN APPEN APPEN	IDIX A: IDIX B: IDIX C: IDIX D: IDIX E: IDIX F: IDIX G: IDIX H: IDIX I: IDIX J:	SAR TEST PLOTS SAR DIPOLE VERIFICATION PLOTS PROBE AND DIPOLE CALIBRATION CERTIFICATES SAR TISSUE SPECIFICATIONS MULTI-TX AND ANTENNA SAR CONSIDERATIONS POWER REDUCTION VERIFICATION SAR SYSTEM VALIDATION LTE AND NR LOWER BANDWIDTH RF CONDUCTED POWERS RU SAR EXCLUSION DUT ANTENNA DIAGRAM & SAR TEST SETUP PHOTOGRAPHS						

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TEST LABORATORY INFORMATION

1.1 Introduction

This test report for device subject to testing at an accredited testing laboratory has been generated by the testing laboratory that tested the device. Measurements were performed at various locations within Element Materials Technology. Detailed location and accredited information regarding the testing laboratories are provided below.

Test Laboratories Information 1.2

Testing Laboratory 1 1.2.1

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY WASHINGTON DC LLC				
Test Lab Location	7185 Oakland Mills Road, Columbia, MD 21046, United States Tel. +1.410.290.6652 / Fax +1.410.290.6654				
	Lab Code. (ISED): 2451B				
	CAB Identifier (NIST): US0110				
Accreditation Info.	ISO/IEC 17025 (A2LA): CERT #2041.01				
Accreditation into.	ACCREDITED CERT #2041.01				
Measurement System No.	C, E, G, H, J, L, O, P, R, S				

Testing Laboratory 2 1.2.2

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SAN JOSE, CA				
Test Lab Location	18855 Adams Ct, Morgan Hill, CA 95037 USA United States Tel. +1.408.538.5600 / Fax +1.410.290.6654				
	Lab Code. (ISED): 22831				
	CAB Identifier (NIST): US0211				
Accreditation Info.	ISO/IEC 17025 (A2LA): CERT #2041.02				
Accieultation inio.	ACCREDITED CERT #2041.02				
Measurement System No.	AM4, AM7, AM8, AM13, AM14, AM16,				

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1.2.3 **Testing Laboratory 3**

Test Firm Name	ELEMENT MATERIALS TECHNOLOGY SUWON, LTD.					
Test Lab Location	Yongin-si, Gyeonggi-do, 16954, South Korea Tel. +82.31.660.7391 / Fax +82)31-660-7318					
	Lab Code. (ISED): 26168					
	CAB Identifier (NIST): KR0169					
Accreditation Info.	ISO/IEC 17025 (A2LA): CERT #2041.04					
Accieultation inio.	ACCREDITED CERT #2041.04					
Measurement System No.	K2, K3, K4, K6					

Note: For each test performed, the test site can be verified with the probe serial numbers specified in the table of Test System Verification and Equipment List.

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2 DEVICE UNDER TEST

2.1 Device Overview

Band & Mode	Operating Modes	Tx Frequency
GSM/GPRS/EDGE 850	Voice/Data	824.20 - 848.80 MHz
GSM/GPRS/EDGE 1900	Voice/Data	1850.20 - 1909.80 MHz
UMTS 850	Voice/Data	826.40 - 846.60 MHz
UMTS 1750	Voice/Data	1712.4 - 1752.6 MHz
UMTS 1900	Voice/Data	1852.4 - 1907.6 MHz
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1754.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41		2498.5 - 2687.5 MHz
	Voice/Data	
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
	Voice/Data	3552.5 - 3697.5 MHz
NR Band n71	Voice/Data	665.5 - 695.5 MHz
NR Band n12	Voice/Data	701.5 - 713.5 MHz
NR Band n14	Voice/Data	790.5 - 795.5 MHz
NR Band n26	Voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n2	Voice/Data	1852.5 - 1907.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz; 3705 - 3795 MHz
		3455.01 - 3544.98 MHz;
NR Band n77	Voice/Data	3705 - 3975 MHz
NTN Band 255	Data	1629 - 1658 MHz
NR Band n258	Data	24250 - 24450 MHz;
		24750 - 25250 MHz
NR Band n260	Data	37000 - 40000 MHz
NR Band n261	Data	27500 - 28350 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
		U-NII-1: 5180 - 5240 MHz
5 GHz WIFI	Voice/Data	U-NII-2A: 5260 - 5320 MHz U-NII-2C: 5500 - 5720 MHz
		U-NII-3: 5745 - 5825 MHz
		U-NII-4: 5845 - 5885 MHz
		U-NII-5: 5935 - 6415 MHz
6 GHz WIFI	Voice/Data	U-NII-6: 6435 - 6515 MHz U-NII-7: 6535 - 6875 MHz
		U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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2.2 Time-Averaging Algorithm for RF Exposure Compliance

This Device is enabled with the Qualcomm® Smart Transmit Gen2 feature with antenna grouping. This feature performs time-averaging algorithm in real time to control and manage transmitting power and ensure the timeaveraged RF exposure is in compliance with FCC requirements all the time. Refer to Compliance Summary document for detailed description of Qualcomm® Smart Transmit feature (report SN could be found in Section 2.10-Bibliography).

Note that NTN operations are not enabled with Smart Transmit.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design target or PD design target, below the predefined time-averaged power limit (i.e., Plimit for WWAN sub-6/WLAN/BT radio, and input.power.limit for 5G mmW NR), for each characterized technology and band. Characterization is achieved by determining P_{limit} for WWAN sub-6/WLAN/BT that corresponds to the exposure design targets after accounting for all device design related uncertainties, i.e., SAR design target (<FCC SAR Limit) for sub-6 radio. The SAR characterization is denoted as SAR char in this report (see SAR Summary Section and Part 0 SAR Test Results for *P_{limit}* Calculations Appendix).

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} . Below table shows P_{limit} EFS settings and maximum tune up output power P_{max} configured for this EUT for various transmit conditions (Device State Index DSI). Note that the device uncertainty for WWAN sub-6/WLAN/BT is 1.0dB for this EUT.

The maximum time-averaged output power (dBm) for any WWAN sub-6/WLAN/BT technology, band, and DSI is the minimum of (" P_{limit} EFS" and "Maximum tune up output power P_{max} ") + 1dB device uncertainty. SAR values in this report were scaled to this maximum time-averaged output power to determine compliance per KDB Publication 447498 D01v06.

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Exposure Scenario			Maximum	Body-Worn, Hotspot, or Phablet	Head
Averaging Volume			Tune-Up Output	1g/10g	1g
Spacing			Power*	10mm, 0mm	0mm
Configuration			-	0	1
DSI		Antenna	n		
Technology/Band	Antenna	Group	P _{max}	P _{limit}	P _{limit}
GSM 850	A	AG0	25.3	30.2	30.2
GSM 850 GSM 1900	E A	AG1 AG0	25.3 22.1	28.4 17.8	20.8 28.0
UMTS 850	A	AG0	24.0	28.0	29.8
UMTS 850	Е	AG1	24.0	26.8	21.0
UMTS 1750	A	AG0	22.5	18.0	27.6
UMTS 1900 LTE Band 71	A	AG0 AG0	23.5 24.0	17.5 28.7	27.8 30.1
LTE Band 71	E	AG1	24.0	28.4	18.0
LTE Band 12	Α	AG0	24.3	29.5	30.3
LTE Band 12	E	AG1	24.3	27.9	21.0
LTE Band 13	A	AG0	24.0	28.5	30.0
LTE Band 13 LTE Band 14	E A	AG1 AG0	24.0 24.3	26.2 28.8	21.0 29.9
LTE Band 14	E	AG1	24.3	26.4	21.0
LTE Band 26/5	Α	AG0	24.0	28.8	29.8
LTE Band 26/5	E	AG1	24.0	26.2	21.0
LTE Band 66/4 LTE Band 66/4	A F	AG0	23.5 23.5	18.5 20.0	27.3
LTE Band 66/4 LTE Band 25/2	A	AG1 AG0	23.5	18.0	16.0 28.8
LTE Band 25/2	F	AG1	23.5	20.0	18.0
LTE Band 30	Α	AG0	22.5	19.0	34.8
LTE Band 30	F	AG1	22.5	18.0	16.5
LTE Band 7 LTE Band 7	B F	AG0 AG1	23.0 23.0	19.0 17.0	31.2 15.5
LTE Band 41	В	AG0	22.0	19.0	18.4
LTE Band 41	F	AG1	22.0	16.0	14.5
LTE Band 38	В	AG0	22.0	17.0	18.4
LTE Band 38 LTE Band 48	F	AG1	22.0 20.5	14.5 16.5	12.5 12.5
NR Band n71	A	AG0	24.0	28.4	31.0
NR Band n71	Е	AG1	24.0	27.5	18.0
NR Band n12	Α	AG0	24.3	28.6	31.2
NR Band n12	E	AG1	24.3	28.2	21.0
NR Band n14 NR Band n14	A E	AG0 AG1	24.0 24.0	28.7 26.8	34.2 21.0
NR Band n26/n5	A	AG0	24.0	27.6	33.5
NR Band n26/n5	Е	AG1	24.0	25.8	21.0
NR Band n70	A	AG0	23.0	19.0	28.5
NR Band n70 NR Band n66	F A	AG1 AG0	23.0 23.5	19.0 18.5	16.0 26.7
NR Band n66	F	AG1	23.5	20.0	16.0
NR Band n25/n2	Α	AG0	23.5	18.0	28.0
NR Band n25/n2	F	AG1	23.5	20.0	18.0
NR Band n30 NR Band n30	A F	AG0 AG1	22.5 22.5	19.0 18.0	34.9 16.5
NR Band n7	В	AG0	23.0	19.0	30.7
NR Band n7	F	AG1	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	AG1	26.0	16.5	13.5
NR Band n41 PC2 (Path 1)	В	AG0	25.0	19.0	17.5
NR Band n41 PC2 (Path 1) NR Band n41 PC2 (Path 1)	E D	AG1 AG0	24.0	17.5 15.5	16.0 14.0
NR Band n41 PC2 (Path 2)	В	AG0	26.0	20.0	24.0
NR Band n41 PC2 (Path 2)	F	AG1	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D	AG0	22.0	15.5	14.0
NR Band n41 PC2 (Path 2) NR Band n38 (Path 1)	E F	AG1	19.0 24.0	17.5 16.5	16.0 13.5
NR Band n38 (Path 2)	В	AG0	24.0	19.0	24.0
NR Band n48	F	AG1	22.5	18.0	14.0
NR Band n48	С	AG0	19.5	13.0	9.0
NR Band n48	I D	AG1	22.5	16.0	12.0
NR Band n48 NR Band n77/n78 PC2	F	AG0 AG1	18.5 26.0	11.5 17.0	7.5 15.0
NR Band n77/n78 PC2	C	AG0	19.0	11.0	10.0
NR Band n77/n78 PC2	I	AG1	23.5	15.0	14.0
NR Band n77/n78 PC2	D :	AG0	18.0	10.0	9.0
2.4 GHz WIFI	J	AG1 AG1	19.0	20.1	13.0
2.4 GHz WIFI 2.4 GHz WIFI	MIMO	AG1	19.0 19.0	25.1 19.6	13.0 13.0
5 GHz WIFI	Н	AG1	17.0	16.0	13.0
5 GHz WIFI	Е	AG1	17.0	16.0	13.0
5 GHz WIFI	MIMO	AG1	17.0	16.0	13.0
6 GHz WIFI 6 GHz WIFI	H E	AG1	16.0 16.0	10.5 10.5	9.0
6 GHz WIFI	MIMO	AG1	16.0	10.5	9.0
2.4 GHz Bluetooth	Н	AG1	17.4	20.2	10.9
2.4 GHz Bluetooth	J	AG1	17.4	26.9	10.9
2.4 GHz Bluetooth	MIMO	AG1	10.9	19.3	17.7

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Notes:

- -All Plimit EFS and maximum tune up output power Pmax levels entered in above Table correspond to average power levels after accounting for duty cycle in the case of TDD, GMSK, or OFDM modulation schemes (e.g. GSM, LTE TDD and WLAN/BT).
- -The purpose of this report (Part 1 Test) is to demonstrate that the EUT meets FCC SAR limits when transmitting in static transmission scenario at maximum allowable time-averaged power levels.

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Nominal and Maximum Output Power Specifications 2.3

This device operates using the following maximum and nominal output power specifications. SAR values were scaled to the maximum allowed power to determine compliance per KDB Publication 447498 D01v06.

Note: Targets for 802.11ax/be RU operations can be found in 802.11ax/be RU SAR Exclusion Appendix.

2.3.1 **Licensed Output Power**

		G	SM/GPRS/I	EDGE 850						
			Antenr	a A						
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)				Data - Burst Average 8-PSK (in dBm)			
		1 TX Slot	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots	1 TX Slots	2 TX Slots	3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
FIIIdA	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
Bot = 0 (Body-vvoiti, Flotapot, of Fliablet)	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
DSI = 1 (Head)	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
		G	SM/GPRS/							
			Antenr	na E						
Power Level		Voice (in dBm)	Data - Burst Average GMSK (in dBm)			Data - Burst Average 8-PSK (in dBm)				
		1 TX Slot			3 TX Slots	4 TX Slots			3 TX Slots	4 TX Slots
Pmax	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
FIIIAX	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	33.5	33.5	32.5	30.5	28.5	28.0	26.0	24.0	23.0
D31 = 0 (B0dy-vvoiti, Hotspot, of Phablet)	Nominal	32.5	32.5	31.5	29.5	27.5	27.0	25.0	23.0	22.0
DSI = 1 (Head)	Max Allowed Power	31.0	31.0	28.0	26.2	25.0	28.0	26.0	24.0	23.0
Doi - 1 (ficad)	Nominal	30.0	30.0	27.0	25.2	24.0	27.0	25.0	23.0	22.0
		G	SM/GPRS/E							
			Antenr	a A						
Power Level		Voice (in dBm)			ige GMSK (ii				ige 8-PSK (ii	
		1 TX Slot							3 TX Slots	
Pmax	Max Allowed Power	31.0	31.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
cix	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24.0	22.0	21.0
DSI = 0 (Body-Worn, Hotspot, or Phablet)	Max Allowed Power	28.0	28.0	25.0	23.2	22.0	27.0	25.0	23.0	22.0
25. 5 (2009-11011), Hotapot, of Filablet)	Nominal	27.0	27.0	24.0	22.2	21.0	26.0	24.0	22.0	21.0
DSI = 1 (Head)	Max Allowed Power	31.0	31.0	29.0	27.5	25.5	27.0	25.0	23.0	22.0
Doi - i (ricau)	Nominal	30.0	30.0	28.0	26.5	24.5	26.0	24 0	22.0	21.0

For GSM, the above powers listed are GSM burst average values.

Апсеппа		ated Average O	utput Power (in dBm)
			· · · · · ·	3GPP DC-
				HSDPA
	Rei 99	Rel 5	Kelb	Rel 8
Max Allowed Power	25.0	24.0	24.0	24.0
Nominal	24.0	23.0	23.0	23.0
Max Allowed Power	25.0	24.0	24.0	24.0
	24.0	23.0	23.0	23.0
	25.0	24.0	24.0	24.0
		23.0	23.0	23.0
Antenna				
	Modula	ated Average O	utput Power (in dBm)
	3GPP	3GPP	3GPP	3GPP DC-
				HSDPA
	Rel 99	Rel 5	Rel 6	Rel 8
Max Allowed Power	25.0	24.0	24.0	24.0
				23.0
				24.0
				23.0
				21.0
Nominal	21.0	20.0	20.0	20.0
Antenna		-44 0	ustavst Danier (- dD/
				3GPP DC-
				HSDPA
				Rel 8
May Allowed Dower				22.5
				21.5
				18.0
				17.0
				22.5
				21.5
rvonillidi	22.0	21.5	21.0	21.5
LIMTS Rand 2 /1	900 MHz)			-
Antenna		ated Average O	utnut Power (i	in dRm)
				3GPP DC-
	WCDMA	HSDPA	HSUPA	HSDPA
				Rel 8
Max Allowed Power	24.5	23.5	23.5	23.5
			22.5	22.5
Nominal	23.5			
Nominal Max Allowed Power	23.5	22.5 17.5		
Max Allowed Power	18.5	17.5	17.5	17.5
	Max Allowed Power Nominal Max Allowed Power Nominal Max Allowed Power Nominal UMTS Band 5 (Antenna Max Allowed Power Nominal	Antenna A Modul	Modulated Average C	Modulated Average Output Power (

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			Modulated A	verage Output Po	wer (in dBm)
Mode / Band	Antenna		Pmax	DSI = 0 (Body- Worn, Hotspot, or Phablet)	DSI = 1 (Head)
LTE Band 71	А	Max Allowed Power	25.0	25.0	25.0
LIE Ballu /1	A	Nominal	24.0	24.0	24.0
LTE Band 71	E	Max Allowed Power	25.0	25.0	19.0
LTE Balla 71		Nominal	24.0	24.0	18.0
LTE Band 12	A	Max Allowed Power	25.3	25.3	25.3
		Nominal	24.3	24.3	24.3
LTE Band 12	E	Max Allowed Power	25.3	25.3	22.0
		Nominal	24.3	24.3	21.0
LTE Band 13	A	Max Allowed Power	25.0	25.0	25.0
		Nominal	24.0	24.0	24.0
LTE Band 13	E	Max Allowed Power	25.0	25.0	22.0
		Nominal	24.0	24.0	21.0
LTE Band 14	A	Max Allowed Power	25.3	25.3	25.3
		Nominal	24.3	24.3	24.3
LTE Band 14	E	Max Allowed Power	25.3	25.3	22.0
		Nominal	24.3	24.3	21.0
LTE Band 26/5	A	Max Allowed Power	25.0	25.0	25.0
<u>, </u>		Nominal	24.0	24.0	24.0
LTE Band 26/5	E	Max Allowed Power	25.0	25.0	22.0
•		Nominal	24.0	24.0	21.0
LTE Band 66/4	Α	Max Allowed Power	24.5	19.5	24.5
		Nominal	23.5	18.5	23.5
LTE Band 66/4	F	Max Allowed Power	24.5	21.0	17.0
		Nominal	23.5	20.0	16.0
LTE Band 25/2	Α	Max Allowed Power	24.5	19.0	24.5
		Nominal	23.5	18.0	23.5
LTE Band 25/2	F	Max Allowed Power	24.5	21.0	19.0
		Nominal Max Allowed Power	23.5	20.0	18.0 23.5
LTE Band 30	A	Nominal	22.5	19.0	22.5
		Max Allowed Power	23.5	19.0	17.5
LTE Band 30	F	Nominal	22.5	18.0	16.5
		Max Allowed Power	24.0	20.0	24.0
LTE Band 7	В	Nominal	23.0	19.0	23.0
		Max Allowed Power	24.0	18.0	16.5
LTE Band 7	F	Nominal	23.0	17.0	15.5
		Max Allowed Power	25.0	22.0	21.4
LTE Band 41	В	Nominal	24.0	21.0	20.4
		Max Allowed Power	25.0	19.0	17.5
LTE Band 41	F	Nominal	24.0	18.0	16.5
		Max Allowed Power	25.0	20.0	21.4
LTE Band 38	В	Nominal	24.0	19.0	20.4
		Max Allowed Power	25.0	17.5	15.5
LTE Band 38	F	Nominal	24.0	16.5	14.5
		Max Allowed Power	23.5	19.5	15.5
LTE Band 48	F	Nominal	22.5	18.5	14.5
NITN D. 1055		Max Allowed Power	23.0	23.0	N/A
NTN Band 255	F		22.0	22.0	N/A

For LTE TDD, the above powers listed are TDD burst average values.

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			Modulated A	verage Output Po	wer (in dBm)
				DSI = 0 (Body-	
Mode / Band	Antenna		Pmax	Worn, Hotspot, or Phablet)	DSI = 1 (Head)
NR Band n71	А	Max Allowed Power	25.0	25.0	25.0
NIK Balla 1171		Nominal	24.0	24.0	24.0
NR Band n71	E	Max Allowed Power	25.0	25.0	19.0
	-	Nominal Max Allowed Power	24.0 25.3	24.0 25.3	18.0 25.3
NR Band n12	A	Nominal	24.3	24.3	24.3
	<u> </u>	Max Allowed Power	25.3	25.3	22.0
NR Band n12	E	Nominal	24.3	24.3	21.0
NR Band n14	A	Max Allowed Power	25.0	25.0	25.0
THE DUTIE HE		Nominal	24.0	24.0	24.0
NR Band n14	E	Max Allowed Power Nominal	25.0 24.0	25.0 24.0	22.0 21.0
		Max Allowed Power	25.0	25.0	25.0
NR Band n26/n5	A	Nominal	24.0	24.0	24.0
NR Band n26/n5	Е	Max Allowed Power	25.0	25.0	22.0
TAIN BUILD HEOVIS	-	Nominal	24.0	24.0	21.0
NR Band n70	A	Max Allowed Power	24.0	20.0	24.0
		Nominal Max Allowed Power	23.0	19.0 20.0	23.0 17.0
NR Band n70	F	Nominal	23.0	19.0	16.0
NR Band n66	١,	Max Allowed Power	24.5	19.5	24.5
NK Band nob	А	Nominal	23.5	18.5	23.5
NR Band n66	F	Max Allowed Power	24.5	21.0	17.0
		Nominal	23.5	20.0	16.0
NR Band n25/n2	A	Max Allowed Power Nominal	24.5	19.0 18.0	24.5 23.5
		Max Allowed Power	24.5	21.0	19.0
NR Band n25/n2	F	Nominal	23.5	20.0	18.0
NR Band n30	А	Max Allowed Power	23.5	20.0	23.5
NIN Ballu 1130	_ ^	Nominal	22.5	19.0	22.5
NR Band n30	F	Max Allowed Power	23.5	19.0	17.5
		Nominal Max Allowed Power	22.5 24.0	18.0 20.0	16.5 24.0
NR Band n7	В	Nominal	23.0	19.0	23.0
ND Devided	F	Max Allowed Power	24.0	18.0	16.5
NR Band n7	F	Nominal	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	Max Allowed Power	27.0	17.5	14.5
` '	-	Nominal Max Allowed Power	26.0	16.5 20.0	13.5 18.5
NR Band n41 PC2 (Path 1)	В	Nominal	26.0 25.0	19.0	17.5
ND Day day 44 DC2 (Dath 4)	-	Max Allowed Power	25.0	18.5	17.0
NR Band n41 PC2 (Path 1)	E	Nominal	24.0	17.5	16.0
NR Band n41 PC2 (Path 1)	D	Max Allowed Power	21.0	16.5	15.0
,		Nominal	20.0	15.5	14.0
NR Band n41 PC2 (Path 2)	В	Max Allowed Power Nominal	27.0 26.0	21.0	25.0 24.0
ND D		Max Allowed Power	22.0	17.5	14.5
NR Band n41 PC2 (Path 2)	F	Nominal	21.0	16.5	13.5
NR Band n41 PC2 (Path 2)	D	Max Allowed Power	23.0	16.5	15.0
	1 -	Nominal Max Allowed Power	22.0	15.5	14.0
NR Band n41 PC2 (Path 2)	E	Max Allowed Power Nominal	20.0 19.0	18.5 17.5	17.0 16.0
	+	Max Allowed Power	25.0	17.5	14.5
NR Band n38	F	Nominal	24.0	16.5	13.5
NR Band n38	В	Max Allowed Power	25.0	20.0	25.0
	<u> </u>	Nominal	24.0	19.0	24.0
NR Band n48	F	Max Allowed Power Nominal	23.5	19.0	15.0
	1	Max Allowed Power	20.5	18.0 14.0	14.0 10.0
NR Band n48	C	Nominal	19.5	13.0	9.0
NR Band n48	1	Max Allowed Power	23.5	17.0	13.0
11.1. Salid 1170	<u> </u>	Nominal	22.5	16.0	12.0
NR Band n48	D	Max Allowed Power	19.5	12.5	8.5
	1	Nominal Max Allowed Power	18.5 27.0	11.5 18.0	7.5 16.0
NR Band n77/n78 PC2	F	Nominal	26.0	17.0	15.0
NP Band p77/p70 pc2	_	Max Allowed Power	20.0	12.0	11.0
NR Band n77/n78 PC2	С	Nominal	19.0	11.0	10.0
NR Band n77/n78 PC2	1	Max Allowed Power	24.5	16.0	15.0
·	-	Nominal Max Allowed Power	23.5	15.0	14.0
NR Band n77/n78 PC2	D	Max Allowed Power Nominal	19.0 18.0	11.0 10.0	9.0
41	10-4	l ara TDD bi	10.0		

For NR TDD, the above powers listed are TDD burst average and framed average values

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2.3.2 2.4 GHz WLAN Output Power

The below table is applicable is applicable in the following conditions:

Pmax

																			1656 902.11	Modulated t	utput Power fin di	Ben)																
	1 1							\$11	10											36	0											9190 kr	MINO					
Mode	Stand	Power Level						Actes	Ma H											Artes	47											M	MO					
		ĺ		·															in (84)		(CDC+879	g .	(CDD+111	NQ.	(CDG+ N'BC,	HOM)	(CDO+179C, I	IOM)	as (SU) (CSD+179C, I	1200)	6+ (SL) (CDD + NYBC)	HOM)						
-	Assimum / Nomin	al Power	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Non.
Pmax	2.4 GHz WLAN	2.45 GHz	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	20.0	12.0	18.0	17.0	18.0	17.0	18.0	17.0	15.0	15.0	16.0	15.0	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0

The below table is applicable is applicable in the following conditions:

• DSI=0 (Body-worn, Hotspot or Phablet)

				The control of the																																		
Mode	Rand	Power Level						Acto	nna H											Arten	na J											м	MO					
		l							_		44770		he/TES								-		es (700)		No. 2010								**		an (202)	-	in (31.)	,
			-						_		800,000		40 (40)						-				40 (40)				(000+176	9	(CEE+EFEC)	,	(CED+179C, I	104	(CED+STEC SE	346	(CD0+178C, 10	204)	(000+1790	,300)
	Maximum / Nomin	inal Power	Max	Nom.	Max	Non.	Max	Nam.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Non.
(Rody-W	2.4 GHz WLAN	2.45 GHz	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	15.0	15.0	20.0	19.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	150	16.0	15.0

The below table is applicable is applicable in the following conditions:

DSI=1 (RCV)

	T				•														1666 902.11	Modulated C	utout Power (in di	n)																
								99	io											919	,											SISO in	MMO					
Mode	Rand	Power Level						Artes	Mar H											Arten	a J											M	MO ON	_		_		_
				1 . m . m(8)						les (III.)										44 (No)		in (81)		(230 + 879)		(200 - 1790		(CED + 179C.)	DAG.	(CD) FIG. I	CMA .	(DD+378C N	ene	ter (SL) (CDD + 879C, 9	600			
	Maximum / Nomi	ital Power	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Mes	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.	Max	Nom.	Max	Non.	Max	Non.
DSI = 1 (Head)	2.4 GHz WLAN	2.45 GHz	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0

2.3.3 5 GHz WLAN Output Power

The below table is applicable is applicable in the following conditions:

Pmax

		-	1 111	чΛ																												
																EEE	02.11 Modulated Outp	ut Power	(in dSm)													
Pow	Mode	Band					SISO Antenna										SISO Antenna E	_									SISO In MIM	0				
Les	4 1000	Linesa					*		as (SU)		De (SLI)						*	_	ax (SU)		Ser (SEU)		(CDD + STBC)		(CDD + STRC, SE	onq .	(CDD + STRC, SE	MI)	ax (SU) (CDD + STBC, SE	MI)	te (SU) (CDD + STBC, S	OM)
Ma	émum / Nomi	nal Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
		UNII-1	18.0 ch. 36: 17.0	17.0	18.0 ch. 36: 17.0	17.0	18.0 ch. 36: 17.0	17.0 16.0	16.0	15.0	16.0	15.0	18.0 ch. 36: 17.0	17.0	18.0 ch.36: 17.0	17:0 16:0	18.0 ch. 36: 17.0	17.0 16.0	16.0	15.0	16.0	15.0	18.0 ch. 30: 17.0	17.0	18.0 ch. 36: 17.0	17.0	18.0 ch. 36: 17.0	17.0 16.0	16.0	15.0	16.0	15.0
	5 GHz WIFI (20MH	UNII-23	18.0 ch. 64: 17.0	17.0	18.0 ch.64: 17.0	17.0	18.0 ch. 64: 17.0	17.0	16.0	15.0	16.0	15.0	18.0 ch. 64: 17.0	17.0	18.0 ch. 64: 17.0	17.0	18.0 ch. 64: 17.0	17.0	16.0	15.0	16.0	15.0	18.0 ch. 64: 17.0	17.0	18.0 ch. 64: 17.0	17.0	18.0 ch. 64: 17.0	17.0	16.0	15.0	16.0	15.0
	BW)		18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0
		UNII-3	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0
		UNI-4	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0	18.0	17.0	18.0	17.0	18.0	17.0	16.0	15.0	16.0	15.0
		UNII-1			16.0 ch.38: 14.5	15.0	15.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch. 38: 14.0	15.0			16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch. 38: 14.0	15.0			16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch.38: 14.0	15.0
		UNII-24			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	5 GHz WIFI		1		ch. 62: 14.5	13.5	ch. 62 14.5	13.5	ch. 62 14.0	13.0	ch. 62: 14.0	13.0	l		ch. 62: 14.5	13.5	ch. 62: 14.5	13.5	ch. 62: 14.0	13.0	ch. 62: 14.0	13.0			ch. 62: 14.5	13.5	ch 62: 14.5	13.5	ch. 62: 14.0	13.0	ch. 62: 14.0	13.0
Prms	(4CMH	UNII-20	:		16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch.102: 14.5	15.0	16.0 ch. 102: 14.5	15.0			16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0			16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0
		UNI-3	_		16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
		UNII-4			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
		UNII-1					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5
		UNII-2A	·				13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5
	5 GHz W1FI	UNII-20					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0
	(80MHs BW)	-	-				ch. 108: 12.0	11.0	ch 106: 12.0	11.0	ch. 106: 12.0	11.0					ch. 106: 12.0	11.0	ch. 106: 12.0	11.0	ch. 106: 12.0	11.0					ch. 106: 12.0	11.0	ch. 106: 12.0	11.0	ch. 106: 12.0	11.0
		UNII-3	-				15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0
	_	UNII-4					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0
	5 GHz WIFI	UNI-1/2	-				14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
	(160M- BW)	UNI-20					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
1							- ""			.20		.20					.4.0	.2.0	. 4.0	.30	0						.1.0	0	- 20	0		

The below table is applicable is applicable in the following conditions:

DSI=0 (Body-worn, Hotspot or Phablet

				_		_										EEE 8	02.11 Modulated Outs	st Power	(in dSm)													
	1						SISO										5150										SISO in MII	10				_
Power	Mode	Band					Antenna	н									Antenna I										MIMO					-
Leve									as (\$U)		be (SIU)						*		ax (SU)		be plu)		(CDD + STBC		(CDD + STBC, S	ONQ	(CDO + STRC, S	OM)	ax (SU) (CDD + STBC, S	OM)	te (SU) (COD + STRC, S	DM)
Master	um / Nominal	i Power	Mex	Nom.	Mex	Nom.	Max	Nom.	Max	Nom.	Mex	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
		UNII-1	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0
	5 GHz WIFI	UNII-2A	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0
	(20MHz BW)	UNII-2C	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0
	1 1	UNII-3	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0
		UNII-4	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0	17.0	16.0	17.0	16.0	17.0	16.0	16.0	15.0	16.0	15.0
		UNII-1			16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch. 38: 14.0	15.0			16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch.38: 14.0	15.0			16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.5	15.0	16.0 ch.38: 14.0	15.0	16.0 ch.38: 14.0	15.0
	l i	UNII-2A	1		16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
	5 GHz WIFI		4		ch. 62: 14.5	13.5	ch. 62: 14.5	13.5	ch. 62: 14.0	13.0	ch. 62: 14.0	13.0			ch. 62: 14.5	13.5	ch. 62: 14.5	13.5	ch. 62: 14.0	13.0	ch. 62: 14.0	13.0			ch. 62: 14.5	13.5	ch 62: 14.5	13.5	ch. 62: 14.0	13.0	ch. 62: 14.0	13.0
0_Sody	(4CMHz BW)	UNII-2C			16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch.102: 14.5	15.0	16.0 ch. 102: 14.5	15.0			16.0 ch. 102 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch. 102 14.5	15.0	16.0 ch. 102: 14.5	15.0			16.0 ch. 102: 14.5	15.0	16.0 ch. 102: 14.5	15.0	16.0 ch.102: 14.5	15.0	16.0 ch. 102: 14.5	15.0
Worn, Hotspot	l	UNII-3			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
Or Phablet	l	UNII-4	1		16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0			16.0	15.0	16.0	15.0	16.0	15.0	16.0	15.0
		UNII-1					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5
	5 GHz	UNII-2A					13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5
	W1F1 (80MHz	UNII-2C					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0
	BW)	UNII-3	1				ch. 108: 12:0 15:0	11.0	ch 106: 12.0 15.0	11.0	ch 106: 12:0 15:0	11.0					ch. 106: 12.0 15.0	11.0	ch. 106: 12:0	11.0	ch. 106: 12.0	11.0					ch. 106: 12.0 15.0	11.0	ch. 106: 12.0 15.0	11.0	ch. 106: 12.0 15.0	14.0
		UNII-4					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0					15.0	14.0	15.0	14.0	15.0	14.0
		UNI-1/2F					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
	W1F1 (160MHz	UNII-2C					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
	BW)	UNI-3/4					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0

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Document S/N: 1M2408260064-23.A3L (Rev 1)	DUT Type: Portable Handset	Page 12 of 159
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The below table is applicable is applicable in the following conditions:

• DSI=1 (RCV)

																EEE 80	2.11 Modulated Outp	ut Power	in dBm)													
Drosser		L -					\$150					_					880										SISO in MIM					
Power	Mode	Band					Antenna h			_		_					Antenna E										MIMO					_
							*		ax (SU)		be (SLI)						*		ax (SU)		be (KU)		(C00 + STRC)		(CDD + STRC, S	paq	(CDD + STRC, SD	M)	ax (SU) (CDD + STBC, SD	MI)	te (SU) (CDD + STBC, S	DM)
Masim	m / Nomina	i Power	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
		UNII-1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5 GHz	UNII-2A	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNII-2C	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	BW)	UNII-3	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNII-4	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNII-1		L	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	5 GHz	UNII-2A		ļ	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
	(40MHz BW)	UNII-2C		ļ	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
1 Head	DIV.)	UNII-3		- 1	14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
2,000		UNI-4			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0			14.0	13.0	14.0	13.0	14.0	13.0	14.0	13.0
		UNI-1					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5					12.0	11.0	11.5	10.5	11.5	10.5
	5 GHz	UNII-2A					13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5					13.0	12.0	12.5	11.5	12.5	11.5
	W1F1 (80MHz BW)	UNII-2C					14.0 ch 106: 12.0	13.0	14.0 ch 106: 12.0	13.0	14.0 ch 106: 12.0	13.0					14.0 ch 106: 12.0	13.0	14.0 ch 108 12.0	13.0	14.0 ch 106: 12.0	13.0					14.0 ch 106: 12.0	13.0	14.0 ch 106: 12.0	13.0	14.0 ch 106: 12.0	13.0
	BW)	UNI-3					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
		UNI-4					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
		UNI-1/2A					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
		UNII-2C					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0
	BW)	UNI-3/4					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0					14.0	13.0	14.0	13.0	14.0	13.0

2.3.4 **6 GHz WLAN Output Power**

The below table is applicable in the following conditions:

Pmax

	• Pn	nax																						
										IEEE 8	02.11 Modulated Out	tput Power	r (in dBm)											
Power				SISO SISO									SISO In MIMO MIMO											
Level	Mode	Band			Antenna	н				Antenna E														
			a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)					
	Maximum / Nominal Power		Max Nor		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.				
	6 GHz WIFI (20MHz BW) - LPI	UNII-5/6/7/	8.0	7.0	11.0 ch. 2: 9.0	10.0 8.0	11.0 ch. 2: 9.0	10.0 8.0	8.0	7.0	11.0 ch. 2: 9.0	10.0 8.0	11.0 ch. 2: 9.0	10.0 8.0	8.0	7.0	11.0 ch. 2: 9.0	10.0 8.0	11.0 ch. 2: 9.0	10.0 8.0				
	6 GHz WIFI (40MHz BW) - LPI	UNII-5/6/7/	8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0				
Pmax	6 GHz WIFI (80MHz BW) - LPI	UNII-5/6/7/	8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0				
	6 GHz WIFI (160MHz BW) - LPI UNII-5/6/		8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0				
	6 GHz WIFI (320MHz BW) - LPI	UNII-5/6/7/	8				11.0	10.0					11.0	10.0					11.0	10.0				
										IEEE 802	2.11 Modulated Outp	ut Power ((in dBm)											
Power	Mode	Band			SISO Antenna H						SISO Antenna E						SISO in MIM							
Level	Mode	Dariu		П		Т			1						a		ax (SU)		be (SU)					
			a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		(CDD + STBC)	(CDD + STBC, St	OM)	(CDD + STBC, SI	DM)				
M	laximum / Nominal Pov	ver	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	n. Max Nom. Max		Max	Nom.	Max	Nom.				
	6 GHz WIFI (20MHz BW) - SP	UNII-5/7	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0	17.0 ch. 2: 9.0	16.0	17.0 ch. 2: 9.0	16.0	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0 8.0	17.0 ch. 2: 9.0	16.0	17.0	16.0				
	6 GHz WIFI (40MHz BW) - SP	UNII-5/7	ch. 2: 9.0	8.0	17.0	16.0	ch. 2: 9.0 17.0	8.0 16.0	ch. 2: 9.0	8.0	ch. 2: 9.0 17.0	16.0	ch. 2: 9.0 17.0	16.0	ch. 2: 9.0	8.0	ch. 2: 9.0 17.0	8.0 16.0	ch. 2: 9.0 17.0	16.0				
Pmax	6 GHz WIFI (80MHz BW) - SP	UNII-5/7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0				
	6 GHz WIFI (160MHz BW) - SP	UNII-5/7			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0			17.0	16.0	17.0	16.0				
	6 GHz WIFI (320MHz BW) - SP	UNII-5/7					17.0	16.0					17.0	16.0					17.0	16.0				
										IEEE 802	2.11 Modulated Outp	ut Power ((in dBm)											
Power			SISO							SISO							MIMO							
Level	Mode	Band			Antenna H				 		Antenna E						SISO in MIMO							
			a .		ax (SU)		be (SU)		a		ax (SU)		be (SU)		a (CDD + STBC)	ax (SU) (CDD + STBC, St	OM)	be (SU) (CDD + STBC, SI	DM)				
M	laximum / Nominal Pov	ver	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.				
	6 GHz WIFI (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0				
	6 GHz WIFI (40MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0				
Pmax	6 GHz WIFI (80MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0				
	6 GHz WIFI (160MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0				
	(320MHz BW) - VLP	UNII-5					6.0	5.0					6.0	5.0					6.0	5.0				

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The below table is applicable is applicable in the following conditions:

DSI=0 (Body-worn or Phablet)

										IEEF 8	02.11 Modulated Out	tout Power	(in dBm)								
_					SISO						SISO in MIMO										
Power Level	Mode	Band		Antenna H						Antenna E						MIMO					
Level			a		ax (SU)	ax (SU)			a		ax (SU)	ax (SU)		be (SU)		a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		DM)	
	Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
	6 GHz WIFI (20MHz BW) - LPI	UNII-5/6/7/	8.0	7.0	11.0 ch. 2: 9.0	10.0	11.0 ch. 2: 9.0	10.0	8.0	7.0	11.0 ch. 2: 9.0	10.0	11.0 ch. 2: 9.0	10.0	8.0	7.0	11.0 ch. 2: 9.0	10.0	11.0 ch. 2: 9.0	10.0	
DSI = 0 (Body-	6 GHz WIFI (40MHz BW) - LPI	UNII-5/6/7/	/8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	
Worn, Hotspot,	6 GHz WIFI (80MHz BW) - LPI	UNII-5/6/7/	/8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	
or Phablet)	6 GHz WIFI (160MHz BW) - LPI	UNII-5/6/7/	/8		11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0			11.0	10.0	11.0	10.0	
	6 GHz WIFI (320MHz BW) - LPI	UNII-5/6/7/	/8				11.0	10.0					11.0	10.0					11.0	10.0	
1										IEEE 802	.11 Modulated Outpr	ut Power (i	in dBm)								
Power	Mada	Band			SISO Antenna H						SISO Antenna E						SISO in MIM MIMO				
Level	Mode	Bariu	a		ax (SU)				a		ax (SU)		be (SU)		a (CDD+STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)		
Ma	Maximum / Nominal Power		Max Nom.		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
	6 GHz WIFI (20MHz BW) - SP	UNII-5/7	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	11.5	10.5	
DSI = 0 (Body-	6 GHz WIFI	UNII-5/7	ch. 2: 9.0	8.0	ch. 2: 9.0 11.5	10.5	ch. 2: 9.0 11.5	8.0 10.5	ch. 2: 9.0	8.0	ch. 2: 9.0 11.5	8.0 10.5	ch. 2: 9.0 11.5	8.0 10.5	ch. 2: 9.0	8.0	ch. 2: 9.0 11.5	8.0 10.5	ch. 2: 9.0 11.5	8.0 10.5	
Worn, Hotspot,	(40MHz BW) - SP 6 GHz WIFI (80MHz BW) - SP	UNII-5/7			11.5	10.5	11.5	10.5	 -		11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5	
or Phablet)	6 GHz WIFI (160MHz BW) - SP	UNII-5/7			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5			11.5	10.5	11.5	10.5	
	6 GHz WIFI (320MHz BW) - SP	UNII-5/7					11.5	10.5					11.5	10.5					11.5	10.5	
										IEEE 802.11 Modulated Output Power (in dBm)											
Power		l	SISO					SISO						MIMO SISO in MIMO							
Level	Mode	Band	—		Antenna F	1					Antenna E	=	ı					10			
			a		ax (SU)	I	be (SU)	1	a		ax (SU)		be (SU)		a (CDD + STBC	:)	ax (SU) (CDD + STBC, S	DM)	be (SU) (CDD + STBC, S	DM)	
N	Maximum / Nominal Po		Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	
	6 GHz WIFI (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	
	6 GHz WIFI (40MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0	
Pmax	6 GHz WIFI (80MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0	
	6 GHz WIFI (160MHz BW) - VLF	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0	
	6 GHz WIFI (320MHz BW) - VLF	UNII-5					6.0	5.0					6.0	5.0					6.0	5.0	

The below table is applicable in the following conditions:

DSI=1 (RCV)

		,	(IXOV)																			
										IEEE 8	02.11 Modulated Out	put Power	(in dBm)									
Power					SISO						SISO						SISO in MIN	10				
Level	Mode	Band			Antenna	н					Antenna	E					MIMO			Nom. 9.0 8.0 9.0 9.0 9.0 9.0 Nom. 9.0 8.0 9.0 9.0		
			a		ax (SU)		be (SU)				ax (SU)	ax (SU)			a (CDD + STBC)		ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)			
	Maximum / Nominal Po	ower	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.		
	6 GHz WIFI (20MHz BW) - LPI	UNII-5/6/7/	8.0	7.0	10.0 ch 2: 9.0	9.0	10.0 ch 2: 9.0	9.0	8.0	7.0	10.0 ch 2: 9.0	9.0	10.0 ch 2: 9.0	9.0	8.0	7.0	10.0 ch 2: 9.0	9.0	10.0 ch 2: 9.0			
	6 GHz WIFI (40MHz BW) - LPI	UNII-5/6/7/	В		10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0			
DSI = 1 (Head)	6 GHz WIFI (80MHz BW) - LPI	UNII-5/6/7/	В		10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0		
	6 GHz WIFI (160MHz BW) - LPI	UNII-5/6/7/	В		10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0		
	6 GHz WIFI (320MHz BW) - LPI	UNII-5/6/7/	В				10.0	9.0					10.0	9.0					10.0	9.0		
										IEEE 802	.11 Modulated Outpu	ıt Power (in dBm)									
Power					SISO						SISO						SISO in MIM	0				
Level	Mode	Band			Antenna H						Antenna E						MIMO					
Level			a ax (SU)				be (SU)	a		ax (SU) be (SU)				a (CDD + STBC	,	ax (SU) (CDD + STBC, SDM)		be (SU) (CDD + STBC, SDM)				
М	eximum / Nominal Pov	ver	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	iom. Max Nom. Max No		Nom.	Max	Nom.			
	6 GHz WIFI (20MHz BW) - SP	UNII-5/7	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0	9.0 8.0	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0	9.0 8.0	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0	9.0	10.0 ch. 2: 9.0			
	6 GHz WIFI (40MHz BW) - SP	UNII-5/7	CH. 2. 9.0	0.0	10.0	9.0	10.0	9.0	CH. 2. 9.0	0.0	10.0	9.0	10.0	9.0	CH. 2. 9.0	8.0	10.0	9.0	10.0			
DSI = 1 (Head)	C CLI - WILL	UNII-5/7			10.0	9.0	10.0	9.0	 -		10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0		
	(160MHZ BW) - SP	UNII-5/7			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0			10.0	9.0	10.0	9.0		
	6 GHz WIFI (320MHz BW) - SP	UNII-5/7					10.0	9.0					10.0	9.0					10.0	9.0		

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				IEEE 802.11 Modulated Output Power (in dBm)																
Power	SISO			SISO				MIMO												
Level	Mode	Band			Antenna H						Antenna E						SISO in MIN	10		
Lovo			a		ax (SU)		be (SU)		a		ax (SU)		be (SU)		(CDD + STBC	;)	ax (SU) (CDD + STBC, S	DM)	be (SU) (CDD + STBC, S	iDM)
1	Maximum / Nominal Powe	r	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.	Max	Nom.
	6 GHz WIFI (20MHz BW) - VLP	UNII-5	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0	6.0	5.0
	6 GHz WIFI (40MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
DSI = 1 (Head)	6 GHz WIFI (80MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	6 GHz WIFI (160MHz BW) - VLP	UNII-5			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0			6.0	5.0	6.0	5.0
	6 GHz WIFI (320MHz BW) - VLP	UNII-5					6.0	5.0					6.0	5.0					6.0	5.0

2.3.5 2.4 GHz Maximum Bluetooth Output Power

The below table is applicable in the following conditions:

Pmax, DSI=0 (Body-worn, Hotspot or Phablet)

DOI O (DOG)	***************************************	i lotopot oi i ili	abiot				
			m)				
Mode	Data		Each Chain in Dual Mode				
Wodo	Rate	Antenna H	ı	Antenna J	МІМО		
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.
Bluetooth	1Mbps	18.0	17.0	18.0	17.0	12.0	11.0
Bluetooth EDR	2Mbps	15.0	14.0	15.0	14.0	10.0	9.0
Bluetooth EDR	3Mbps	15.0	14.0	15.0	14.0	10.0	9.0
Bluetooth LE	1Mbps	19.0	18.0	19.0	18.0	12.5	11.5
Bluetooth LE	2Mbps	19.0	18.0	19.0	18.0	12.5	11.5
Bluetooth LE	125kbps	8.5	7.5	8.5	7.5	N/A	N/A
Bluetooth LE	500kbps	8.5	7.5	8.5	7.5	N/A	N/A

The below table is applicable in the following conditions:

DSI=1 (RCV)

Í		Modulated Output Power (in dBm)								
Mode	Data		Each Chain in Dual Mode							
	Rate	Antenna H	Antenn		I	МІМО				
Maximum / Nominal Power		Max	Nom.	Max	Nom.	Max	Nom.			
Bluetooth	1Mbps	12.0	11.0	12.0	11.0	12.0	11.0			
Bluetooth EDR	2Mbps	12.0	11.0	12.0	11.0	10.0	9.0			
Bluetooth EDR	3Mbps	12.0	11.0	12.0	11.0	10.0	9.0			
Bluetooth LE	1Mbps	12.5	11.5	12.5	11.5	12.5	11.5			
Bluetooth LE	2Mbps	12.5	11.5	12.5	11.5	12.5	11.5			
Bluetooth LE	125kbps	8.5	7.5	8.5	7.5	N/A	N/A			
Bluetooth LE	500kbps	8.5	7.5	8.5	7.5	N/A	N/A			

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2.4 **DUT Antenna Locations**

The overall dimensions of this device are > 9 x 5 cm. A diagram showing the location of the device antennas can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix. Since the display diagonal dimension of this device is > 150 mm and <200 mm, it is considered a "phablet." Exact antenna dimensions and separation distances are shown in the Technical Descriptions in the FCC filing.

Table 2-1 **Device Edges/Sides for SAR Testing**

Antenna	Back	Front	Тор	Bottom	Right	Left
Α	Yes	Yes	No	Yes	Yes	Yes
В	Yes	Yes	No	Yes	No	Yes
С	Yes	Yes	No	Yes	No	Yes
D	Yes	Yes	No	Yes	Yes	No
Е	Yes	Yes	Yes	No	Yes	No
F	Yes	Yes	Yes	No	No	Yes
I	Yes	Yes	Yes	No	No	Yes
Н	Yes	Yes	Yes	No	No	Yes
J	Yes	Yes	Yes	No	Yes	No
MIMO	Yes	Yes	Yes	No	Yes	Yes

Note: Particular DUT edges were not required to be evaluated for wireless router SAR or phablet SAR if the edges were greater than 2.5 cm from the transmitting antenna according to FCC KDB Publication 941225 D06v02r01 Section III and FCC KDB Publication 648474 D01v06r03. The distances between the transmit antennas and the edges of the device are included in the filing. When wireless router mode is enabled, NTN, U-NII-1, U-NII-2A, U-NII-2C, U-NII-4, and WIFI6E operations are disabled.

2.5 **Near Field Communications (NFC) Antenna**

This DUT has NFC operations. The NFC antenna is integrated into the device for this model. Therefore, all SAR tests were performed with the device which already incorporates the NFC antenna. A diagram showing the location of the NFC antenna can be found in DUT Antenna Diagram & SAR Test Setup Photographs Appendix.

2.6 Simultaneous Transmission Capabilities

According to FCC KDB Publication 447498 D01v06, transmitters are considered to be operating simultaneously when there is overlapping transmission, with the exception of transmissions during network hand-offs with maximum hand-off duration less than 30 seconds.

This device contains multiple transmitters that may operate simultaneously, and therefore requires a simultaneous transmission analysis according to FCC KDB Publication 447498 D01v06 procedures.

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Table 2-2 **Simultaneous Transmission Scenarios**

	Simultaneous i ra	1121111			Hall	105
No.	Capable Transmit Configuration	Head	Body-Worn Accessory	Wireless Router	Phablet	Notes
1	GSM voice + 2.4 GHz Bluetooth SISO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
3	GSM voice + 2.4 GHz Bluetooth Dual GSM voice + 2.4 GHz WLAN MIMO	Yes	Yes Yes	N/A N/A	Yes Yes	
4	GSM voice + 2.4 GHz WLAN MINO GSM voice + 2.4 GHz WLAN SISO	Yes	Yes	N/A	Yes	
5	GSM voice + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
7	GSM voice + 5 GHz WLAN SISO GSM voice + 6 GHz WLAN MIMO	Yes	Yes Yes	N/A N/A	Yes Yes	
8	GSM voice + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
9	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
10 11	GSM voice + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
12	GSM voice + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes Yes	N/A N/A	Yes Yes	
13	GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
14	GSM voice + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes	Yes	N/A	Yes	
15 16	GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO GSM voice + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes	Yes Yes	N/A N/A	Yes Yes	
17	GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
18	GSM voice + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
19 20	GSM voice + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO GSM voice + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO	Yes^ Yes^	Yes Yes	N/A N/A	Yes Yes	A Bluetooth Tethering is considered only on Ant H A Bluetooth Tethering is considered only on Ant H
21	GSM voice + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
22	GSM voice + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
23	GSM voice + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO GSM voice + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO	Yes	Yes	N/A N/A	Yes Yes	
25	GSM voice + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
26	GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	A Bluetooth Tethering is considered only on Ant H
27 28	GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO	Yes^ Yes^	Yes Yes	N/A N/A	Yes Yes	A Bluetooth Tethering is considered only on Ant H A Bluetooth Tethering is considered only on Ant H
29	GSM voice + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
30	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
31 32	UMTS/LTE/NR + 2.4 GHz Bluetooth Dual UMTS/LTE/NR + 2.4 GHz WLAN MIMO	Yes	Yes Yes	N/A Yes	Yes Yes	
33	UMTS/LTE/NR + 2.4 GHz WLAN SISO	Yes	Yes	Yes	Yes	
34	UMTS/LTE/NR + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
35 36	UMTS/LTE/NR + 5 GHz WLAN SISO UMTS/LTE/NR + 6 GHz WLAN MIMO	Yes	Yes Yes	Yes N/A	Yes Yes	
37	UMTS/LTE/NR+6 GHz WLAN MIMO UMTS/LTE/NR+6 GHz WLAN SISO	Yes	Yes	N/A N/A	Yes	
38	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
39 40	UMTS/LTE/NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO LIMTS/LTE/NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes Yes	Yes N/A	Yes Yes	
40	UMTS/LTE/NR+2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO UMTS/LTE/NR+2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A N/A	Yes	
42	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
43	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes	Yes	Yes	Yes	
44	UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN MIMO UMTS/LTE/NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes Yes	Yes Yes	N/A N/A	Yes Yes	
46	UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
47	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	A Bluetooth Tethering is considered only on Ant H
48 49	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO	Yes^ Yes^	Yes Yes	Yes^ N/A	Yes Yes	A Bluetooth Tethering is considered only on Ant H A Bluetooth Tethering is considered only on Ant H
50	UMTS/LTE/NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	A Bluetooth Tethering is considered only on Ant H
51	UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
52	UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO UMTS/LTE/NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO	Yes	Yes Yes	N/A N/A	Yes Yes	
54	UMTS/LTE/NR+2.4 GHz Bluetooth Dual+6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
55	UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
56 57	UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO	Yes^ Yes^	Yes Yes	Yes^ N/A	Yes Yes	A Bluetooth Tethering is considered only on Ant H Bluetooth Tethering is considered only on Ant H
58	UMTS/LTE/NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	A Bluetooth Tethering is considered only on Ant H
59 60	LTE+NR	Yes Yes^	Yes Yes	N/A Yes^	Yes Yes	A Division to Trade and a second a second and a second and a second and a second and a second an
61	LTE + NR + 2.4 GHz Bluetooth SISO LTE + NR + 2.4 GHz Bluetooth Dual	Yes	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
62	LTE + NR + 2.4 GHz WLAN MIMO	Yes	Yes	Yes	Yes	
63	LTE + NR + 2.4 GHz WLAN SISO	Yes	Yes	Yes	Yes	
64	LTE + NR + 5 GHz WLAN MIMO LTE + NR + 5 GHz WLAN SISO	Yes	Yes Yes	Yes	Yes Yes	
66	LTE + NR + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
67	LTE + NR + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
68 69	LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz WLAN MIMO + 5 GHz WLAN SISO	Yes	Yes Yes	Yes	Yes Yes	
70	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
71	LTE + NR + 2.4 GHz WLAN MIMO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
72 73	LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN SISO	Yes Yes	Yes Yes	Yes	Yes Yes	
74	LTE + NR + 2.4 GHz WLAN SISO + 5 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
75	LTE + NR + 2.4 GHz WLAN SISO + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
76	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J	Yes^	Yes	Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
77 78	LTE + NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz Bluetooth SISO + 5 GHz WLAN SISO	Yes^ Yes^	Yes Yes	Yes^ Yes^	Yes Yes	A Bluetooth Tethering is considered only on Ant H A Bluetooth Tethering is considered only on Ant H
79	LTE + NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
80	LTE + NR + 2.4 GHz Bluetooth SISO + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
81 82	LTE + NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz Bluetooth Dual + 5 GHz WLAN SISO	Yes	Yes Yes	N/A N/A	Yes Yes	
83	LTE + NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN MIMO	Yes	Yes	N/A	Yes	
84	LTE + NR + 2.4 GHz Bluetooth Dual + 6 GHz WLAN SISO	Yes	Yes	N/A	Yes	
85 86	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN MIMO LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 5 GHz WLAN SISO	Yes^ Yes^	Yes Yes	Yes^ Yes^	Yes Yes	A Bluetooth Tethering is considered only on Ant H A Bluetooth Tethering is considered only on Ant H
87	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN MIMO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
88	LTE + NR + 2.4 GHz Bluetooth Ant H + 2.4 GHz WLAN Ant J + 6 GHz WLAN SISO	Yes^	Yes	N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
	GPRS/EDGE + 2.4 GHz Bluetooth SISO	N/A N/A	N/A N/A	Yes^ N/A	Yes Yes	^ Bluetooth Tethering is considered only on Ant H
89	GPRS/FDGF + 2 4 GHz Bluetooth Dual				Yes	
	GPRS/EDGE + 2.4 GHz Bluetooth Dual GPRS/EDGE + 2.4 GHz WLAN MIMO	N/A	N/A	Yes		1
90 91 92	GPRS/EDGE + 2.4 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz WLAN SISO	N/A	N/A	Yes	Yes	
90 91 92 93	GPRS/EDGE + 2.4 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz WLAN SISO GPRS/EDGE + 5 GHz WLAN MIMO	N/A N/A	N/A N/A	Yes Yes	Yes Yes	
90 91 92 93 94	GPRS/EDGE + 2.4 GHz WLAN MIMO GPRS/EDGE + 2.4 GHz WLAN SISO	N/A	N/A	Yes	Yes	
89 90 91 92 93 94 95 96	GRIS/EDGE + 2.4 GIV WLAN MIMO GRIS/EDGE + 2.5 GIV WLAN SISO GRIS/EDGE + 5 GIV WLAN SISO GRIS/EDGE + 5 GIV WLAN SISO GRIS/EDGE + 5 GIV WLAN SISO GRIS/EDGE + 6 GIV WLAN SISO GRIS/EDGE + 6 GIV WLAN SISO GRIS/EDGE + 6 GIV WLAN SISO	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A	Yes Yes Yes Yes Yes	
89 90 91 92 93 94 95 96 97	GRRS/EDGE + 2.4 GHz WLAN MIMO GRRS/EDGE + 2.6 UHz WLAN SISO GRRS/EDGE + 5 GHz WLAN MIMO GRRS/EDGE + 5 GHz WLAN MIMO GRRS/EDGE - 5 GHz WLAN MIMO GRRS/EDGE - 6 GHZ WLAN MIMO + 5 GHZ WLAN MIMO	N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A Yes	Yes Yes Yes Yes Yes Yes Yes Yes	
89 90 91 92 93 94 95 96	GRIS/EDGE + 2.4 GIN WLAN MIMO GRIS/EDGE + 2.6 GIN WLAN MISO GRIS/EDGE + 5 GIN WLAN MIMO GRIS/EDGE + 5 GIN WLAN MIMO GRIS/EDGE + 5 GIN WLAN MIMO GRIS/EDGE + 6 GIN WLAN MIMO GRIS/EDGE + 2.4 GIN WLAN MIMO + 5 GIN WLAN MIMO GRIS/EDGE + 2.4 GIN WLAN MIMO + 5 GIN WLAN MISO	N/A N/A N/A N/A	N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A	Yes Yes Yes Yes Yes	
89 90 91 92 93 94 95 96 97 98 99	GRIS/EDGE + 2.4 GIN WUAN MIMO GRIS/EDGE + 2.6 GIN WUAN SISO GRIS/EDGE + 5 GIN: WUAN SISO GRIS/EDGE + 5 GIN: WUAN SISO GRIS/EDGE + 6 GIN: WUAN SISO GRIS/EDGE + 6 GIN: WUAN SISO GRIS/EDGE + 6 GIN: WUAN SISO GRIS/EDGE - 6 GIN: WUAN SISO GRIS/EDGE - 6 GIN: WUAN SISO GRIS/EDGE - 2.4 GIN: WUAN SISO	N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A Yes Yes N/A N/A	Yes	
89 90 91 92 93 94 95 96 97 98 99 100 101	GRRS/EDER - 2.4 GIV WLAN MIMO GRRS/EDER - 2.6 GIV WLAN SISO GRRS/EDER - 5.6 GIV WLAN SISO GRRS/EDER - 5.6 GIV WLAN MIMO GRRS/EDER - 6.6 GIV WLAN MIMO GRRS/EDER - 6.6 GIV WLAN SISO GRRS/EDER - 6.6 GIV WLAN MIMO GRRS/EDER - 2.6 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A Yes Yes N/A Yes N/A N/A Yes	Yes	
89 90 91 92 93 94 95 96 97 98 99 100 101	GRIS/EDGE - 2.4 GIV WLAN MIMO GRIS/EDGE - 2.4 GIV WLAN MISO GRIS/EDGE - 5 GIF, WLAN MIMO GRIS/EDGE - 5 GIF, WLAN MIMO GRIS/EDGE - 5 GIF, WLAN MIMO GRIS/EDGE - 6 GIF, WLAN MIMO GRIS/EDGE - 2.4 GIV WLAN MIMO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN MIMO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN MIMO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO GRIS/EDGE - 2.4 GIV WLAN MIMO - 5 GIF, WLAN SISO	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes Yes Yes N/A N/A Yes Yes N/A Yes Yes N/A N/A Yes Yes	Yes	
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103	GRRS/EDER - 2.4 GIV WLAN MIMO GRRS/EDER - 2.6 GIV WLAN SISO GRRS/EDER - 5.6 GIV WLAN SISO GRRS/EDER - 5.6 GIV WLAN MIMO GRRS/EDER - 6.6 GIV WLAN MIMO GRRS/EDER - 6.6 GIV WLAN SISO GRRS/EDER - 6.6 GIV WLAN MIMO GRRS/EDER - 2.6 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO GRRS/EDER - 2.4 GIV WLAN MIMO - 6. GIV WLAN MIMO	N/A N/A N/A N/A N/A N/A N/A N/A N/A	N/A	Yes Yes Yes N/A N/A Yes Yes N/A Yes N/A N/A Yes	Yes	
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105	GRRS/EDER - 2.4 GIN WLAN MIMO GRRS/EDER - 2.6 BIN WLAN SISO GRRS/EDER - 5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN MIMO - 5.6 BIN WLAN MIMO GRRS/EDER - 2.4 GIN WLAN MIMO - 5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO GRRS/EDER - 2.4 GIN WLAN SISO -5.6 BIN WLAN SISO	N/A	N/A	Yes Yes Yes N/A N/A Yes N/A N/A Yes N/A N/A Yes N/A Yes Yes N/A N/A Yes	Yes	A Bluetooth Tethering is considered only on Ant H
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO	N/A	N/A	Yes Yes Yes N/A N/A Yes Yes N/A N/A Yes N/A Yes Yes N/A Yes Yes N/A N/A Yes Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	GRIS/EDEE - 2.4 GIV WLAN MIMO GRIS/EDEE - 2.6 GIV WLAN MISO GRIS/EDEE - 5.6 GIV WLAN MISO GRIS/EDEE - 5.6 GIV WLAN MISO GRIS/EDEE - 5.6 GIV WLAN MIMO GRIS/EDEE - 5.6 GIV WLAN MIMO GRIS/EDEE - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN MIMO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN MIMO - 6.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN MIMO - 6.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 6.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV WLAN SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV BULLOON SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV BULLOON SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV BULLOON SEO - 5.6 GIV WLAN MIMO GRIS/EDEE - 2.4 GIV BULLOON SEO - 5.6 GIV WLAN MIMO	N/A	N/A	Yes Yes Yes N/A N/A Yes N/A Yes N/A N/A Yes Yes N/A N/A Yes Yes N/A N/A Yes Yes N/A N/A Yes Yes N/A N/A	Yes	
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106	GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIFL WLAN SIGO + 5 GIFL WLAN MIMO	N/A	N/A	Yes Yes Yes N/A N/A Yes Yes N/A N/A Yes N/A Yes Yes N/A Yes Yes N/A N/A Yes Yes^	Yes	^ Bluetooth Tethering is considered only on Ant H
89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110	GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 5 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 6 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 6 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 6 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIFL WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIFL WLAN SISO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON ARI H + 2.4 GIV WLAN ARI GRIS/EDEC + 2.4 GIV BIUNEDON ARI H + 2.4 GIV WLAN ARI GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO	N/A	N/A	Yes Yes Yes Yes Yes N/A N/A N/A Yes N/A N/A Yes N/A N/A Yes N/A N/A N/A N/A N/A N/A N/A N/A N/A	Yes	^ Bluetooth Tethering is considered only on Ant H
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89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 106 107 108 109 110 110 111 111	GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 5 GIF WLAN MIMO GRIS/EDEC + 5 GIF WLAN MIMO GRIS/EDEC + 5 GIF WLAN MIMO GRIS/EDEC + 6 GIF WLAN MIMO GRIS/EDEC + 6 GIF WLAN MIMO GRIS/EDEC + 6 GIF WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIF WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 5 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 6 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN MIMO + 6 GIF WLAN SISO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIF WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV WLAN SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON ARI H + 2.4 GIV WLAN ARI GRIS/EDEC + 2.4 GIV BIUNEDON ARI H + 2.4 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 5 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN MIMO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO GRIS/EDEC + 2.4 GIV BIUNEDON SISO + 6 GIV WLAN SISO	N/A	N/A	Yes Yes Yes N/A N/A N/A Yes N/A N/A Yes N/A N/A Yes Yes N/A	Yes	^ Bluetooth Tethering is considered only on Ant H

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- 1. No other simultaneous scenarios besides described above is supported for this model.
- SISO represents 2.4 GHz WLAN/BT transmission on Ant H or Ant J. and 5/6 GHz transmission on Ant H or Ant E.
- 3. When the user utilizes multiple services in UMTS 3G mode it uses multi-Radio Access Bearer or multi-RAB. The power control is based on a physical control channel (Dedicated Physical Control Channel [DPCCH]) and power control will be adjusted to meet the needs of both services. Therefore, the UMTS+WLAN scenario also represents the UMTS Voice/DATA + WLAN Hotspot scenario.
- 4. Per the manufacturer, WIFI Direct is not expected to be used in conjunction with a held-to-ear or bodyworn accessory voice call. Therefore, there are no simultaneous transmission scenarios involving WIFI direct beyond that listed in the above table.
- 5. 5 GHz Wireless Router is only supported for the U-NII-3 by S/W, therefore U-NII-1, U-NII-2A, U-NII-2C, and U-NII-4 were not evaluated for wireless router conditions.
- 6. 6 GHz Wireless Router is not supported, therefore it was not evaluated for wireless router conditions.
- 7. This device supports 2x2 MIMO Tx for WLAN 802.11a/b/q/n/ac/ax/be, 802.11a/b/q/n/ac/ax/be supports CDD and STBC and 802.11n/ac/ax/be additionally supports SDM.
- 8. This device supports VoWIFI.
- 9. This device supports Bluetooth Tethering on Ant H only.
- 10. This device supports VoLTE.
- 11. This device supports VoNR.
- 12. LTE + 5G NR FR1 Scenarios are limited to EN-DC combinations with anchor bands as shown in the NR FR1 checklist.
- 13. 5G NR FR2 n258, n260, and n261 cannot transmit simultaneously.
- 14. LTE + 5G NR FR2 and 5G NR FR1 + 5G NR FR2 scenarios are limited to combinations with anchor bands as shown in the NR FR2 checklist.
- 15. UWB and NFC were evaluated for phablet based on expected usage conditions.
- 16. NB NTN-loT only transmits only when the device is set to satellite mode and does not transmit with any other radios simultaneously.

2.7 Miscellaneous SAR Test Considerations

(A) WIFI/BT

Since U-NII-1 and U-NII-2A bands have the same maximum output power and the highest reported SAR for U-NII-2A is less than 1.2 W/kg, SAR is not required for U-NII-1 band according to FCC KDB Publication 248227 D01v02r02.

Since Wireless Router operations are not allowed by the chipset firmware using U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, only 2.4 GHz WIFI, 2.4 GHz Bluetooth, and U-NII-3 WIFI Hotspot SAR tests and combinations are considered for SAR with respect to Wireless Router configurations according to FCC KDB 941225 D06v02r01.

This device supports IEEE 802.11ax/be with the following features:

- a) Up to 320 MHz Bandwidth only for 6GHz
- b) Up to 160 MHz Bandwidth only for 5/6 GHz
- c) Up to 20 MHz Bandwidth only for 2.4 GHz
- d) 2 Tx antenna output
- e) Up to 4KQAM is supported
- TDWR and Band gap channels are supported for 5/6 GHz
- g) MU-MIMO UL Operations are not supported

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg. Because wireless router operations are not supported for U-NII-1, U-NII-2A, U-NII-2C, U-NII-4 WIFI and 6 GHz, phablet SAR tests were performed.

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Phablet SAR was not evaluated for 2.4 GHz WLAN, 2.4 GHz Bluetooth, and U-NII-3 WLAN operations since wireless router 1g SAR was < 1.2 W/kg.

Per April 2019 TCB Workshop Notes and FCC guidance, SAR testing for 802.11ax/be follows initial test configuration procedures of KDB 248227, with 802.11ax/be considered a higher order 802.11 mode.

Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factors for WIFI 6GHz/UWB and 8GHz SAR probe calibration factors for UWB. FCC KDB 648474, FCC KDB 941225 D07 and FCC KDB 248227 were followed for test positions, distances, and modes. Absorbed power density (APD) using a 4cm² averaging area is reported based on SAR measurements. Incident power density is evaluated at 2mm ensuring that the resolution is sufficient such that integrated power density (iPD) between d=2mm and d=λ/5mm is ≥ -1dB per equipment manufacturer guidance. Power density results are scaled up for uncertainty above 30%. Per TCB workshop October 2020 notes, 5 channels were tested for WIFI 6 GHz.

(B) Licensed Transmitter(s)

GSM/GPRS/EDGE DTM is not supported for US bands. Therefore, the GSM Voice modes in this report do not transmit simultaneously with GPRS/EDGE Data.

This device is only capable of QPSK HSUPA in the uplink. Therefore, no additional SAR tests are required beyond that described for devices with HSUPA in KDB 941225 D01v03r01.

LTE SAR for the higher modulations and lower bandwidths were not tested since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth; and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg for all configurations according to FCC KDB 941225 D05v02r04.

This device supports LTE Carrier Aggregation (CA) in the downlink. All uplink communications are identical to Release 8 specifications. Per FCC KDB Publication 941225 D05A v01r02, SAR for LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.

Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is greater than 150mm and less than 200mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.

This device supports downlink 4x4 MIMO operations for some LTE Bands. Per May 2017 TCB Workshop Notes. SAR for 4x4 DL MIMO was not needed since the maximum average output power in 4x4 DL MIMO mode was not more than 0.25 dB higher than the maximum output power with 4x4 DL MIMO inactive. Additionally, SAR for 4x4 MIMO Downlink Carrier Aggregation was not needed since the maximum average output power in 4x4 MIMO Downlink Carrier Aggregation mode was not more than 0.25 dB higher than the maximum output power with 4x4 MIMO Downlink and downlink carrier aggregation inactive.

This device supports LTE/NR capabilities with overlapping transmission frequency ranges. When the supported frequency range of an LTE/NR Band falls completely within an LTE/NR band with a larger transmission frequency range, both LTE/NR bands have the same target power (or the band with the larger transmission frequency range has a higher target power), and both LTE/NR bands share the same transmission path and signal characteristics, SAR was only assessed for the band with the larger transmission frequency range.

This device supports LTE Carrier Aggregation (CA) for LTE Band 48 with two component carriers in the uplink. SAR Measurements and conducted powers were evaluated per 2017 Fall TCB Workshop Notes.

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This device can transmit with antenna switching for bands/modes on antenna A,B,E, and F. SAR tests were performed for each antenna where switching is used per band/mode to ensure compliance. Antennas and indicated band/modes are included in section 2.3.1 of this report.

Per FCC Guidance, C-Band for NR n77 (3705 – 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 - 3544.98 MHz).

This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition. the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

This device supports 5G NR for Bands n258, n260, and n261. RF Exposure assessment and simultaneous transmission analysis for these bands can be found in the Near Field PD Report (report SN can be found in Section 2.10 - Bibliography).

NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.

SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.

Per Qualcomm guidance in 80-W2112-4, when hotspot mode applies, 10-g extremity SAR is required for the surfaces and edges with hotspot mode 1g reported SAR > 1.2 W/kg. For surfaces and edges with hotspot mode 1g SAR < 1.2 W/kg, the 10-g extremity can be excluded when the normalized SAR design target for extremity DSI is less than or equal to that of hotspot DSI.

$$SAR_design_target_extremity \leq \frac{SAR_design_target_hotspot}{1g\;SAR\;limit} * 10g\;SAR\;limit$$

2.8 **Guidance Applied**

- IEEE 1528-2013
- FCC KDB Publication 941225 D01v03r01, D05v02r05, D05Av01r02, D06v02r01 (2G/3G/4G and Hotspot)
- FCC KDB Publication 248227 D01v02r02 (SAR Considerations for 802.11 Devices)
- FCC KDB Publication 447498 D01v06 (General SAR Guidance)
- FCC KDB Publication 865664 D01v01r04, D02v01r02 (SAR Measurements up to 6 GHz)
- FCC KDB Publication 648474 D01v06r03 (Phablet Procedures)
- October 2013 TCB Workshop Notes (GPRS Testing Considerations)
- May 2017 TCB Workshop Notes (LTE 4x4 Downlink MIMO)
- November 2017, April 2018, October 2018 TCB Workshop Notes (LTE Carrier Aggregation)
- April 2019 TCB Workshop Notes (IEEE 802.11ax, Dynamic Antenna Tuning)
- November 2017, October 2018, April 2019, November 2019, October 2020 TCBC Workshop Notes (6-8 GHz)
- SPEAG DASY6 Application Note (Interim Procedures for Devices Operating at 6-10 GHz) (Nov 2021)
- IEC/IEEE 63195-1:2022
- IEC 62479:2010

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2.9 Device Serial Numbers

Several samples with identical hardware were used to support SAR testing. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units. The serial numbers used for each test are indicated alongside the results in Section 12.

2.10 Bibliography

Report Type	Report Serial Number			
PD Part 1 Test Report	1M2408260064-25.A3L			
PD Part 0 Test Report				
RF Exposure Part 0 Test Report	1M2408260064-31.A3L			
RF Exposure Part 2 Test Report	1M2408260064-24.A3L			
Compliance Summary Report	1M2408260064-26.A3L			

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LTE AND NR INFORMATION

	Li	TE Information					
Form Factor Frequency Range of each LTE transmission band		LTE	Portable Handset Band 71: 665.5 - 695.5 f	MHz			
. , ,		LTE	Band 12: 699.7 - 715.3 I	ИНz			
	i		Band 13: 779.5 - 784.5 Band 14: 790.5 - 795.5 B				
		LTE	E Band 26: 814.7 - 848.3 I	ИHz			
	LTE Band 5: 824.7 - 848.3 MHz LTE Band 66: 1710.7 - 1779.3 MHz						
		LTE	Band 4: 1710.7 - 1754.3	MHz			
			Band 25: 1850.7 - 1914.3 Band 2: 1850.7 - 1909.3				
		LTE	Band 30: 2307.5 - 2312.5	MHz			
			Band 7: 2502.5 - 2567.5 Band 41: 2498.5 - 2687.5				
		LTE	Band 38: 2572.5 - 2617.5	MHz			
Channel Bandwidths			Band 48: 3552.5 - 3697.5 71: 5 MHz, 10 MHz, 15 M				
Ondinia Daridwania		LTE Band	12: 1.4 MHz, 3 MHz, 5 MI	Hz, 10 MHz			
			TE Band 13: 5 MHz, 10 M TE Band 14: 5 MHz, 10 M				
	LTE Band 26: 1.4 MHz, 3 MHz, 10 MHz, 15 MHz						
			5: 1.4 MHz, 3 MHz, 5 MH Hz, 3 MHz, 5 MHz, 10 MI				
	1		Hz, 3 MHz, 5 MHz, 10 M				
		LTE Band 25: 1.4 M	Hz, 3 MHz, 5 MHz, 10 MI	Hz, 15 MHz, 20 MHz	· · · · · · · · · · · · · · · · · · ·		
	1		TE Band 30: 5 MHz, 10 M				
		LTE Band	7: 5 MHz, 10 MHz, 15 MF	Hz, 20 MHz			
			41: 5 MHz, 10 MHz, 15 M 38: 5 MHz, 10 MHz, 15 M				
Channel Numbers and Frances in (All In)		LTE Band	48: 5 MHz, 10 MHz, 15 M	Hz, 20 MHz			
Channel Numbers and Frequencies (MHz) LTE Band 71: 5 MHz	Low 665.5 (1	Low-Mid 33147)	Mid 680.5 (133297)	Mid-High 695.5	High 133447)		
LTE Band 71: 10 MHz	668 (13	3172)	680.5 (133297)	693 (1	33422)		
LTE Band 71: 15 MHz LTE Band 71: 20 MHz	670.5 (1 673 (13		680.5 (133297) 680.5 (133297)		133397) 33372)		
LTE Band 12: 1.4 MHz	699.7 (2	23017)	707.5 (23095)	715.3	(23173)		
LTE Band 12: 3 MHz LTE Band 12: 5 MHz	700.5 (2 701.5 (2		707.5 (23095) 707.5 (23095)	714.5	(23165) (23155)		
LTE Band 12: 10 MHz	701.5 (2 704 (2)		707.5 (23095)		23130)		
LTE Band 13: 5 MHz LTE Band 13: 10 MHz	779.5 (2	23205)	782 (23230) 782 (23230)	784.5	(23255)		
LTE Band 14: 5 MHz	(N/ 790.5 (2		782 (23230) 793 (23330)		VA) (23355)		
LTE Band 14: 10 MHz LTE Band 26: 1.4 MHz	(N/	A)	793 (23330)	(1	√A)		
LTE Band 26: 1.4 MHz LTE Band 26: 3 MHz	814.7 (2 815.5 (2		831.5 (26865) 831.5 (26865)	848.3 847.5	(27033) (27025)		
LTE Band 26: 5 MHz	816.5 (2	26715)	831.5 (26865)	846.5	(27015)		
LTE Band 26: 10 MHz LTE Band 26: 15 MHz	819 (2) 821.5 (2		831.5 (26865) 831.5 (26865)		26990) (26965)		
LTE Band 5: 1.4 MHz	824.7 (2	20407)	836.5 (20525)	848.3	(20643)		
LTE Band 5: 3 MHz LTE Band 5: 5 MHz	825.5 (2 826.5 (2		836.5 (20525) 836.5 (20525)		(20635) (20625)		
LTE Band 5: 10 MHz	829 (2)		836.5 (20525)	844 (20600)		
LTE Band 66: 1.4 MHz	1710.7 (1 1711.5 (1		1745 (132322) 1745 (132322)		(132665) (132657)		
LTE Band 66: 5 MHz	1712.5 (1		1745 (132322)		(132647)		
LTE Band 66: 10 MHz LTE Band 66: 15 MHz	1715 (1:		1745 (132322)	1775 (132622)			
LTE Band 66: 20 MHz	1717.5 (1 1720 (1		1745 (132322) 1745 (132322)	5 (132322) 1770 (132572)			
LTE Band 4: 1.4 MHz LTE Band 4: 3 MHz		1710.7 (19957) 1732.5 (20175) 1754.3 (21 1711.5 (19965) 1732.5 (20175) 1753.5 (21		(20393)			
LTE Band 4: 5 MHz	1711.5 (1732.5 (20175) 1732.5 (20175)	1752.5	(20375)		
LTE Band 4: 10 MHz LTE Band 4: 15 MHz	1715 (2		1732.5 (20175)		(20350)		
LTE Band 4: 20 MHz	1717.5 (1720 (2		1732.5 (20175) 1732.5 (20175)		(20325)		
LTE Band 25: 1.4 MHz LTE Band 25: 3 MHz	1850.7 (26047)	1882.5 (26365)	1914.3	(26683)		
LTE Band 25: 5 MHz	1851.5 (1852.5 (26055) 26065)	1882.5 (26365) 1882.5 (26365)	1913.5	(26675) (26665)		
LTE Band 25: 10 MHz	1855 (2	6090)	1882.5 (26365)	1910	(26640)		
LTE Band 25: 15 MHz LTE Band 25: 20 MHz	1857.5 (1860 (2		1882.5 (26365) 1882.5 (26365)		(26615) (26590)		
LTE Band 2: 1.4 MHz	1850.7 (18607)	1880 (18900)	1909.3	(19193)		
LTE Band 2: 3 MHz LTE Band 2: 5 MHz	1851.5 (1852.5 (1880 (18900) 1880 (18900)		(19185) (19175)		
LTE Band 2: 10 MHz	1855 (1	8650)	1880 (18900)	1905	(19150)		
LTE Band 2: 15 MHz LTE Band 2: 20 MHz	1857.5 (1860 (1		1880 (18900) 1880 (18900)		(19125) (19100)		
LTE Band 30: 5 MHz	2307.5 (27685)	2310 (27710)	2312.5	(27735)		
LTE Band 30: 10 MHz LTE Band 7: 5 MHz	(N/ 2502.5 (2310 (27710) 2535 (21100)		VA) (21425)		
LTE Band 7: 10 MHz	2502.5 (2 2505 (2		2535 (21100) 2535 (21100)		(21425)		
LTE Band 7: 15 MHz LTE Band 7: 20 MHz	2507.5 (2535 (21100)	2562.5	(21375)		
LTE Band 41: 5 MHz	2510 (2 2502.5 (39715)	0850) 2549.5 (40185)	2535 (21100) 2593 (40620)	2560 2636.5 (41055)	21350) 2680 (41490)		
LTE Band 41: 10 MHz	2505 (39740)	2549.5 (40185)	2593 (40620)	2636.5 (41055)	2680 (41490)		
LTE Band 41: 15 MHz LTE Band 41: 20 MHz	2507.5 (39765) 2510 (39790)	2549.5 (40185) 2549.5 (40185)	2593 (40620) 2593 (40620)	2636.5 (41055) 2636.5 (41055)	2680 (41490) 2680 (41490)		
LTE Band 38: 5 MHz	2572.5 (37775)	2595 (38000)	2617.5	(38225)		
LTE Band 38: 10 MHz LTE Band 38: 15 MHz	2575 (3 2577.5 (2595 (38000) 2595 (38000)		(38200)		
LTE Band 38: 20 MHz	2580 (3	7850)	2595 (38000) 2595 (38000)	2610	(38150)		
LTE Band 48: 5 MHz LTE Band 48: 10 MHz	3552.5 (55265)	3600.8 (55748)	(N/A)	3649.2 (56232)	3697.5 (56715)		
LTE Band 48: 15 MHz	3555 (55290) 3557.5 (55315)	3601.7 (55757) 3602.5 (55765)	(N/A) (N/A)	3648.3 (56223) 3647.5 (56215)	3695 (56690) 3692.5 (56665)		
LTE Band 48: 20 MHz	3560 (55340)	3603.3 (55773)	(N/A)	3646.7 (56207)	3690 (56640)		
UE Category Modulations Supported in UL		QPS	L UE Cat 18 , DL UE Cat SK, 16QAM, 64QAM, 256	QAM			
LTE MPR Permanently implemented per 3GPP TS 36.101 section 6.2.3~6.2.5? (manufacturer attestation to be provided)			YES				
A-MPR (Additional MPR) disabled for SAR Testing?			YES				
LTE Carrier Aggregation Possible Combinations	The t	echnical description inc	ludes all the possible can	ier aggregation combina	tions		
LTE Additional Information	This device does not so features. All uplink comm	upport full CA features on nunications are identications are identications are identications.	on 3GPP Release 16. It su il to the Release 8 Specifi are not supported: Relay, s-Carrier Scheduling, Enhi	upports carrier aggregations. Uplink commun HetNet, Enhanced MIMO	on and downlink MIMO ications are done on the		

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Euro Eustra		NR Inform	nation	Bendalia V			
Form Factor Frequency Range of each NR transmission band			NR BI	Portable Handwell and n71: 885.5 - 895.5 f and n12: 701.5 - 713.5 f	dHz dHz		
			NR B	and n/3: 816.5 - 846.5 h and n/3: 826.5 - 846.5 h and n/3: 826.5 - 846.5 h	dHz Htz		
			NR Bar	nd n88: 1712.5 - 1777.5 nd n25: 1852.5 - 1912.5 nd n2: 1862.5 - 1907.5	MHz MHz		
			NR Bar NR Ba	nd n30: 2307.5 - 2312.5 nd n7: 2502.5 - 2567.5	MHz MHz		
			NR Ba	nd n41: 2501.01 - 2685 and n38: 2575 - 2615 M nd n48: 3555 - 3694.98	MHz		
			NR Band n77: 340 NR Band n	55.01 - 3544.98 MHz; 3 55.01 - 3544.98 MHz; 3 77 DoD: 3455.01 - 3544	705 - 3975 MHz I.98 MHz		
Channel Bandwidths		N	n12: 5 MHz, 10	25 MHz, 30 MHz, 35 MHz 15 MHz			
		NR Band nS: 5 MHz, 10 MHz, 15 MHz, 20 MHz NR Band nS: 5 MHz, 10 MHz, 15 MHz					
	NR Band ndb: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 20 MHz, 25 MHz, 40 MHz, 45 MHz, 46 MHz NR Band ndb: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 38 MHz, 40 MHz, 46 MHz, 46 MHz, NR Band ndb: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz, NR Band ndb: 5 MHz, 10 MHz, 15 MHz, 20 MHz, 25 MHz, 30 MHz, 35 MHz, 40 MHz						
	NR Ba	NR Band : nd n41: 10 MHz, 15 MH	NR 6 n7: 5 MHz, 10 MHz, 15 Mi lz, 20 MHz, 25 MHz, 30 M	tr., 20 MHz., 25 MHz., 3	0 MHz, 35 MHz, 40 MHz,	50 MHz , 80 MHz, 90 MHz, 100 I	dHz
	N	R Band n78: 10 MHz, 1:	NR Band n38: 10 MHz, NR Band n48: 10 M 5 MHz, 20 MHz, 25 MHz,	15 MHz, 20 MHz, 25 M Hz, 15 MHz, 20 MHz, 30 MHz, 40 MHz, 50 M		MHz, 90 MHz, 100 MHz	
Channel Numbers and Frequencies (MHz) NR Band n71: 5 MHz		R Band n77: 10 MHz, 1:	5 MHz, 20 MHz, 25 MHz, 1	50 MHz, 40 MHz, 50 M 680.5 (136100)	Hz, 60 MHz, 70 MHz, 80	MHz, 90 MHz, 100 MHz 695.5 (1	90 tom
NR Band n71: 10 MHz NR Band n71: 15 MHz NR Band n71: 20 MHz	668 (1: 670.5 (1	(5800) (34100)		680.5 (136100) 680.5 (136100)		693 (1: 690.5 (1	8800) 38100)
NR Band n71: 25 MHz NR Band n71: 30 MHz	675 (1: 675.5 (1:	(35100) 958000		680.5 (136100) 680.5 (136100) 680.5 (136100)		685.5 (1 685.5 (1	37100)
NR Band n71: 35 MHz NR Band n12: 5 MHz NR Band n12: 10 MHz NR Band n12: 15 MHz	690.5 (1 701.5 (1 704 (1 706.5 (1	(0800)		680.5 (136100) 707.5 (141500) 707.5 (141500)		680.5 (1 713.5 (1 711 (1- 708.5 (1	2200)
NR Band n14: 5 MHz NR Band n14: 10 MHz	790.5 (1 793 (1)	58100) 58600)		707.5 (141500) 793 (158600) 793 (158600)		795.5 (1 793 (1	59100) 8800)
NR Band rdB: 5 MHz NR Band rdB: 10 MHz NR Band rdB: 15 MHz NB Band rdB: 5 MHz	816.5 (1 819 (1) 821.5 (1	(5800) (64500)		831.5 (166300) 831.5 (166300) 831.5 (166300)		846.5 (1 844 (1) 841.5 (1	8800) 68300)
NR Band n28: 20 MHz NR Band n2: 5 MHz NR Band n2: 10 MHz NR Band n2: 15 MHz	824 (11 826.5 (1 829 (11	94800) (65300) (5800)		838.5 (167300) 838.5 (167300) 838.5 (167300)		839 (11 846.5 (1 844 (11 841.5 (1	(7800) (92300)
NR Band nS: 20 MHz NR Band n70: 5 MHz	831.5 (1 834 (1) 1697.5 ((66300) (6800)		836.5 (167300) 836.5 (167300) 1702.5 (340500)		839 (10 1707.5 ((7800) (41500)
NR Band n70: 10 MHz NR Band n70: 15 MHz NR Band n86: 5 MHz	1700 (3 1702.5 (1712.5 (40000) 340500)		1702.5 (340500) 1702.5 (340500) 1745 (349000)		1705 (3 1702.5 (1777.5 ((1000) (40500)
NR Band n00: 10 MHz	1712.5 (1715.(3 1717.5 (1720.(3	45000) 343500)		1745 (349000) 1745 (349000) 1745 (349000)		1775 (3 1772 5 (1772 5 (55000) 554500)
one cases root. In water. NR Based rolling 20 Metr. NR Based rolling 30 Metr. NR Based rolling 30 Metr.	1720 (3 1722.5 (3 1725 (3 1727.5 (344500)		1745 (349000) 1745 (349000) 1745 (349000)		1767.5 (3 1765 (3 1762.5 ((53500)
NR Band n00: 40 MHz NR Band n00: 45 MHz NR Band n00: 45 MHz	1730 (3 1730 (3	46000) 46000)		1745 (349000) 1745 (349000) 1745 (349000) 1882.5 (378500)		1780 (3 1780 (3	52000) 52000)
NR Band n25: 5 MHz NR Band n25: 10 MHz NR Band n25: 15 MHz NR Band n25: 35 MHz NR Band n25: 30 MHz	1852.5 (1855.5) 1857.5 (71000) 371500)		1882.5 (376500) 1882.5 (376500)		1912.5 (1910 (3 1907.5 (12000) 181500)
NR Band n25: 25 MHz NR Band n25: 30 MHz	1860 (3 1862.5 (1865 (3	73000)		1882.5 (376500) 1882.5 (376500) 1882.5 (376500)		1905 (3 1902.5 (1900 (3	180500) 90000)
NR Band n25: 35 MHz NR Band n25: 40 MHz NR Band n2: 5 MHz	1887.5 (1870 (3 1852.5 (74000) 370500)		1882.5 (378500) 1882.5 (378500) 1880 (378000)		1897.5 (3 1895 (3 1907.5 (P9000)
NR Band n2: 10 MHz NR Band n2: 15 MHz NR Band n2: 20 MHz	1857.5 (1857.5 (371500)		1880 (376000) 1880 (376000) 1880 (376000)		1905 (3 1902 5 (1900 (3	(80500)
NR Band n2: 25 MHz NR Band n2: 30 MHz NR Band n2: 35 MHz	(N (N (N	(A) (A)		1880 (376000) 1880 (376000) 1880 (376000)		(N (N	A) A)
NR Band n2: 35 MHz NR Band n2: 40 MHz NR Band n3: 5 MHz NR Band n30: 10 MHz NR Band n30: 10 MHz	2307.5 (2310 (4	(A) 461500)		1880 (376000) 2310 (462000) 2310 (462000)		(N 2312.5 (2310 (4	A) (62500)
NR Band n7: 5 MHz NR Band n7: 10 MHz NR Band n7: 10 MHz	2502.5 (2505 (5 2507.5 (500500) 01000)		2535 (507000) 2535 (507000) 2535 (507000)		2567.5 (2565 (5 2562.5 ((13500) (3000)
NR Band n7: 20 MHz NR Band n7: 25 MHz NR Band n7: 35 MHz	2510 (5 2512.5 (02000) 502500)		2535 (507000) 2535 (507000)		2580 (5 2557.5 (12000) 511500)
NR Band n7: 35 MHz NR Band n7: 40 MHz	2515 (5 2517.5 (2520 (5	503500) 04000)		2535 (507000) 2535 (507000) 2535 (507000)		2555 (5 2552.5 (2550 (5	11500) 10000)
NR Band n7: 50 MHz NR Band n41: 10 MHz NR Band n41: 15 MHz NR Band n41: 15 MHz	2525 (5 2501.01 (500202) 2503.5 (500700)	2547 (509400) 2548 26 (509652) 2549 49 (509898)		2502.90 (518508) 2502.90 (518508)		2545 (5 2639.01 (527802) 2637.75 (527550)	2682.51 (536502)
NR Band n41: 25 MHz NR Band n41: 30 MHz	2506 02 (501204) 2508 51 (501702) 2511 (502200)	2550.75 (510150) 2552.01 (510402)		2502.99 (518508) 2502.99 (518508) 2502.99 (518508)		2636.49 (527298) 2635.26 (527052) 2634 (526800)	2679.99 (535998) 2677.5 (535500) 2674.98 (534996)
NR Band n41: 35 MHz NR Band n41: 40 MHz NR Band n41: 45 MHz	2513.52 (502704) 2616.01 (523202) 2518.5 (503700)	2553.24 (510648) 2567.34 (513468) 2568.18 (513636)		2502.99 (518508) (N/A) (N/A)		2632.74 (526548) 2618.67 (523734) 2617.83 (523566)	2672.49 (534496) 2670 (534000) 2667.48 (533496)
NR Band n41: 50 MHz NR Band n41: 60 MHz NR Band n41: 70 MHz	2521.02 2526 (5 2531.01	05200) (506202)		2502 99 (518508) 2502 99 (518508) (N/A)		2654.99 2652.98 2655.(5	531296) 31000)
NR Band n41: 80 MHz NR Band n41: 90 MHz NR Band n41: 100 MHz	2536.02 2541 (5 2546.01	(507204) 06200) (509202)		(NA) (NA) 2502.99 (518508)		2649.99 2644.98 2640.(5	528996)
NR Band n38: 10 MHz NR Band n38: 15 MHz NR Band n38: 20 MHz	2575 (5 2577.5 (15000) 515500)		2595 (519000) 2595 (519000) 2595 (519000)		2615 (5 2612.5 (2610 (5	23000)
NR Band n38: 25 MHz NR Band n38: 30 MHz NR Band n38: 40 MHz	2582.5 (2585.5) 2590 (5	516500) 17000)		2595 (519000) 2595 (519000) 2595 (519000)		2607.5 (2605 (5 2600 (5	(21500) 21000)
NR Band n38: 40 MHz NR Band n48: 10 MHz NR Band n48: 15 MHz NR Band n48: 20 MHz	3555 (637000) 3557.52 (637168) 3560.01 (637334)	3601.68 (640112) 3602.49 (640166) 3603.33 (640222)		(N/A) (N/A) (N/A)		3648.33 (643022) 3647.49 (643168) 3646.68 (643112)	3694.98 (646332) 3692.49 (646166) 3690 (646000)
NR Band NR: 30 MHz NR Band NR: 40 MHz NR Band NR: 40 MHz	3565.02 (637656) 3570 (638000) 3705 (647000)	3605.01 (640334) (N/A) (N/A)	(NA)	(NA) (NA) 3624.99 (641666) 3750 (650000)	(NA)	3845 (643000) (N/A) (N/A)	3684.99 (645666) 3679.98 (645332)
NR Band n78: 10 MHz NR Band n78: 15 MHz NR Band n78: 20 MHz NR Band n78: 20 MHz	3707.52 (847168) 3710.01 (847334)	(NA) (NA)	(NA) (NA)	3750 (850000) 3750 (850000)	(NA) (NA)	(N/A)	3792 48 (852832) 3792 48 (852832) 3789 99 (852888)
NY Band n78: 25 MHz NY Band n78: 40 MHz NY Band n78: 40 MHz NY Band n78: 40 MHz	3712.5 (847500) 3715.02 (847688) 3720 (848000) 3725.01 (848334)	(NA) (NA) (NA)	(NA) (NA) (NA)	3750 (850000) 3750 (850000) (N/A)	(NA) (NA) (NA)	(N/A) (N/A) (N/A)	3787.5 (652500) 3784.96 (652332) 3780 (652000)
NR Band n78: 60 MHz NR Band n78: 70 MHz	3725.01 (848334) (N/A) (N/A)	(NA) (NA) (NA)	(NA) (NA) (NA)	(NA) 3750 (850000) 3750 (850000)	(NA) (NA) (NA)	(N/A) (N/A) (N/A)	3774.99 (651666) (NIA) (NIA)
NR Band n78: 80 MHz NR Band n78: 90 MHz NR Band n78: 100 MHz	(NA) (NA) (NA)	(NIA) (NIA) (NIA)	(NA) (NA) (NA)	3750 (850000) 3750 (850000) 3750 (850000)	(NA) (NA) (NA)	(NA) (NA) (NA)	(N/A) (N/A) (N/A)
NR Band n77 DoD: 10 MHz NR Band n77 DoD: 15 MHz NR Band n77 DoD: 20 MHz	3455.01 3457.5 (3460.02	(630068)		3500.01 (633334) 3500.01 (633334) 3500.01 (633334)		3544.98 3542.49 3540 (6	36000)
NR Band n77 DoD: 25 MHz NR Band n77 DoD: 30 MHz NR Band n77 DoD: 40 MHz	3482 51	(630834) 31000) (631334)		3500.01 (633334) 3500.01 (633334) (N/A)		3537.48 3534.99 3529.98	635832) 635666)
NR Band n77 DoD: 59 MHz NR Band n77 DoD: 69 MHz NR Band n77 DoD: 70 MHz	3475.02 (N	(631668)		(N/A) 3500.01 (633334) 3500.01 (633334)		3525 (6 (N	35000)
NR Band n77 DoD: 80 MHz NR Band n77 DoD: 90 MHz	IN IN IN	(A) (A) (A)		3500.01 (633334) 3500.01 (633334) 3500.01 (633334)		(N (N	A) A)
NR Band n77 DoD: 100 MHz NR Band n77: 10 MHz NR Band n77: 5 MHz NR Band n77: 30 MHz	3705 (847000) 3707.52 (847168) 3710.01 (847334)	3759 (650600) 3760.5 (650700) 3762 (650800)	3813 (654200) 3813.51 (654234) 3813.92 (654268)	3500.01 (633334) (N/A) (N/A)	3867 (657800) 3866.49 (657766) 3866.01 (657734)	3921 (661400) 3919.5 (661300) 3918 (661200)	3975 (665000) 3972.48 (664832) 3960.99 (664686)
NR Band n77: 25 MHz NR Band n77: 30 MHz	3712.5 (647500) 3715.02 (647668)	3763.5 (650900) 3765 (651000)	3814.5 (654300) 3815.01 (654334)	(NA) (NA)	3865.5 (657700) 3864.99 (657666)	3916.5 (661100) 3915 (661000)	3967.5 (664500) 3964.98 (684332)
NR Band n77: 40 MHz NR Band n77: 50 MHz NR Band n77: 50 MHz NR Band n77: 70 MHz	3720 (648000) 3725.01 (648334) 3730.02 (648868)	3768 (651200) 3782.49 (652166) 3803.34 (653556)	3816 (854400) (N/A) (N/A)	(N/A) 3840 (656000) (N/A)	3884 (657600) (N/A) (N/A)	3912 (660600) 3897.51 (659634) 3876.66 (658444)	3960 (664000) 3954.99 (663666) 3949.96 (663332)
NR Band n77: 80 MHz NR Band n77: 90 MHz	3735 (849000) 3740.01 (849334) 3745.02 (849868)	3804.99 (653666) (N/A) (N/A)	(NA)	(N/A) 3840 (656000)	(NA)	3875.01 (658334) (N/A) (N/A)	3945 (863000) 3939 99 (862666) 3934.98 (862332)
NR Band n77: 100 MHz SCS for NR Band n71, n12, n14, n26, n5, n70, n66, n25, n2, n30, s SCS for NR Band n41, n36, n46, n76, n77, n77 DoD	3750 (650000)	(NA)		3840 (656000) (N/A) 15 kHz 30 kHz		(N/A)	3930 (862990)
Modulations Supported in UL AMPR (Additional MPR) disabled for SAR Testing?				IPSK, OPSK, 16QAM, IM: QPSK, 16QAM, 25 YES			
EN-DC and NR Center Aggregation Possible Combinations LTE Anchor Bands for NR Band n71 LTE Anchor Bands for NR Band n12		The	sechnical description inclus	sis all the possible care LTE Band 2/48/66 N/A	ier aggregation combinati	ons	
LTE Anchor Bands for NR Band n14				N/A N/A LTE Band 2/45/66 N/A			
LTE Anchor Bands for NR Band n ⁴				N/A			
LTE Anchor Bands for NR Band nd6 LTE Anchor Bands for NR Band nd5 LTE Anchor Bands for NR Band nd70 LTE Anchor Bands for NR Band nd6 LTE Anchor Bands for NR Band nd6			L	TE Band 2/5/12/13/48			
LTE Anchor Bands for NR Band n70 LTE Anchor Bands for NR Band n86 LTE Anchor Bands for NR Band n85 LTE Anchor Bands for NR Band n8 LTE Anchor Bands for NR Band n8 LTE Anchor Bands for NR Band n80			Ľ	LTE Band 12 TE Band 5/12/13/46/66 N/A			
LTE Anchor Bands for NR Band n70 LTE Anchor Bands for NR Band n56 LTE Anchor Bands for NR Band n25 LTE Anchor Bands for NR Band n2			E	LTE Band 12 TE Band 5/12/13/48/66			
ITE Anchor Bands for NR Band of O LTE Anchor Bands for NR Band of B LTE AnchOR Bands for NR B LTE AnchOR BAND for NR B LTE				LTE Band 12 TE Band 5/12/13/48/66 N/A N/A LTE Band 2/5/12/66			

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INTRODUCTION

The FCC and Innovation, Science, and Economic Development Canada have adopted the guidelines for evaluating the environmental effects of radio frequency (RF) radiation in ET Docket 93-62 on Aug. 6, 1996 and Health Canada Safety Code 6 to protect the public and workers from the potential hazards of RF emissions due to FCC-regulated portable devices. [1]

The safety limits used for the environmental evaluation measurements are based on the criteria published by the American National Standards Institute (ANSI) for localized specific absorption rate (SAR) in IEEE/ANSI C95.1-1992 Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz [3] and Health Canada RF Exposure Guidelines Safety Code 6 [22]. The measurement procedure described in IEEE/ANSI C95.3-2002 Recommended Practice for the Measurement of Potentially Hazardous Electromagnetic Fields - RF and Microwave [4] is used for guidance in measuring the Specific Absorption Rate (SAR) due to the RF radiation exposure from the Equipment Under Test (EUT). These criteria for SAR evaluation are similar to those recommended by the International Committee for Non-Ionizing Radiation Protection (ICNIRP) in Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields." Report No. Vol 74. SAR is a measure of the rate of energy absorption due to exposure to an RF transmitting source. SAR values have been related to threshold levels for potential biological hazards.

4.1 **SAR Definition**

Specific Absorption Rate is defined as the time derivative (rate) of the incremental energy (dU) absorbed by (dissipated in) an incremental mass (dm) contained in a volume element (dV) of a given density (ρ). It is also defined as the rate of RF energy absorption per unit mass at a point in an absorbing body (see Equation 4-1).

Equation 4-1 **SAR Mathematical Equation**

$$SAR = \frac{d}{dt} \left(\frac{dU}{dm} \right) = \frac{d}{dt} \left(\frac{dU}{\rho dv} \right)$$

SAR is expressed in units of Watts per Kilogram (W/kg).

$$SAR = \frac{\sigma \cdot E^2}{\rho}$$

where:

 σ = conductivity of the tissue-simulating material (S/m) ρ = mass density of the tissue-simulating material (kg/m³)

E = Total RMS electric field strength (V/m)

NOTE: The primary factors that control rate of energy absorption were found to be the wavelength of the incident field in relation to the dimensions and geometry of the irradiated organism, the orientation of the organism in relation to the polarity of field vectors, the presence of reflecting surfaces, and whether conductive contact is made by the organism with a ground plane [6]

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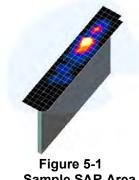


DOSIMETRIC ASSESSMENT

5.1 **Measurement Procedure**

The evaluation was performed using the following procedure compliant to FCC KDB Publication 865664 D01v01r04 and IEEE 1528-2013:

- 1. The SAR distribution at the exposed side of the head or body was measured at a distance no greater than 5.0 mm from the inner surface of the shell. The area covered the entire dimension of the device-head and body interface and the horizontal grid resolution was determined per FCC KDB Publication 865664 D01v01r04 (See Table 5-1) and IEEE 1528-2013.
- 2. The point SAR measurement was taken at the maximum SAR region determined from Step 1 to enable the monitoring of SAR fluctuations/drifts during the 1g/10g cube evaluation. SAR at this fixed point was measured and used as a reference value.



Sample SAR Area Scan

- 3. Based on the area scan data, the peak of the region with maximum SAR was determined by spline interpolation. Around this point, a volume was assessed according to the measurement resolution and volume size requirements of FCC KDB Publication 865664 D01v01r04 (See Table 5-1) and IEEE 1528-2013. On the basis of this data set, the spatial peak SAR value was evaluated with the following procedure (see references or the DASY manual online for more details):
 - a. SAR values at the inner surface of the phantom are extrapolated from the measured values along the line away from the surface with spacing no greater than that in Table 5-1. The extrapolation was based on a least-squares algorithm. A polynomial of the fourth order was calculated through the points in the z-axis (normal to the phantom shell).
 - b. After the maximum interpolated values were calculated between the points in the cube, the SAR was averaged over the spatial volume (1g or 10g) using a 3D-Spline interpolation algorithm. The 3D-spline is composed of three one-dimensional splines with the "Not a knot" condition (in x, y, and z directions). The volume was then integrated with the trapezoidal algorithm. One thousand points (10 x 10 x 10) were obtained through interpolation, in order to calculate the averaged SAR.
 - c. All neighboring volumes were evaluated until no neighboring volume with a higher average value was
- 4. The SAR reference value, at the same location as step 2, was re-measured after the zoom scan was complete to calculate the SAR drift. If the drift deviated by more than 5%, the SAR test and drift measurements were repeated.

Table 5-1 Area and Zoom Scan Resolutions per FCC KDB Publication 865664 D01v01r04*

_	Maximum Area Scan	Maximum Zoom Scan	Resolution (min)		Minimum Zoom Scan	
Frequency	Resolution (mm) (Δx _{area} , Δy _{area})	Resolution (mm) (Δx _{200m} , Δy _{200m})	Uniform Grid	Graded Grid		Volume (mm) (x,y,z)
	alca yarcay	1 20011 7 200117	Δz _{zoom} (n)	Δz _{zoom} (1)*	Δz _{zoom} (n>1)*	, ,,, ,
≤ 2 GHz	≤ 15	≤8	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
2-3 GHz	≤ 12	≤5	≤5	≤4	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 30
3-4 GHz	≤ 12	≤5	≤4	≤3	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 28
4-5 GHz	≤ 10	≤ 4	≤3	≤2.5	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 25
5-6 GHz	≤ 10	≤ 4	≤ 2	≤2	$\leq 1.5*\Delta z_{zoom}(n-1)$	≥ 22

^{*}Also compliant to IEEE 1528-2013 Table 6

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DEFINITION OF REFERENCE POINTS

6.1 EAR REFERENCE POINT

Figure 6-2 shows the front, back and side views of the SAM Twin Phantom. The point "M" is the reference point for the center of the mouth, "LE" is the left ear reference point (ERP), and "RE" is the right ERP. The ERP is 15mm posterior to the entrance to the ear canal (EEC) along the B-M line (Back-Mouth), as shown in Figure 6-1. The plane passing through the two ear canals and M is defined as the Reference Plane. The line N-F (Neck-Front), also called the Reference Pivoting Line, is not perpendicular to the reference plane (see Figure 6-1). Line B-M is perpendicular to the N-F line. Both N-F and B-M lines are marked on the external phantom shell to facilitate handset positioning [5].

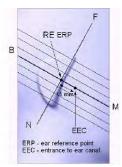


Figure 6-1 Close-Up Side view of ERP

HANDSET REFERENCE POINTS 6.2

Two imaginary lines on the handset were established: the vertical centerline and the horizontal line. The test device was placed in a normal operating position with the acoustic output located along the "vertical centerline" on the front of the device aligned to the "ear reference point" (See Figure 6-3). The acoustic output was than located at the same level as the center of the ear reference point. The test device was positioned so that the "vertical centerline" was bisecting the front surface of the handset at its top and bottom edges, positioning the "ear reference point" on the outer surface of the both the left and right head phantoms on the ear reference point.



Figure 6-2 Front, back and side view of SAM Twin Phantom

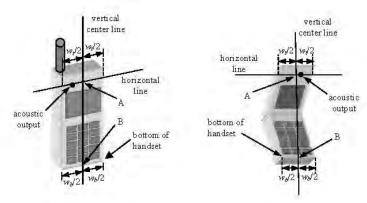


Figure 6-3 **Handset Vertical Center & Horizontal Line Reference Points**

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TEST CONFIGURATION POSITIONS

7.1 **Device Holder**

The device holder is made out of low-loss POM material having the following dielectric parameters: relative permittivity $\varepsilon = 3$ and loss tangent $\delta = 0.02$.

7.2 **Positioning for Cheek**

1. The test device was positioned with the device close to the surface of the phantom such that point A is on the (virtual) extension of the line passing through points RE and LE on the phantom (see Figure 7-1), such that the plane defined by the vertical center line and the horizontal line of the phone is approximately parallel to the sagittal plane of the phantom.



Figure 7-1 Front, Side and Top View of Cheek Position

- 2. The handset was translated towards the phantom along the line passing through RE & LE until the handset touches the pinna.
- 3. While maintaining the handset in this plane, the handset was rotated around the LE-RE line until the vertical centerline was in the reference plane.
- The phone was then rotated around the vertical centerline until the phone (horizontal line) was 4. symmetrical was respect to the line NF.
- 5. While maintaining the vertical centerline in the reference plane, keeping point A on the line passing through RE and LE, and maintaining the device contact with the ear, the device was rotated about the NF line until any point on the handset made contact with a phantom point below the ear (cheek) (See Figure 7-2).

7.3 Positioning for Ear / 15° Tilt

With the test device aligned in the "Cheek Position":

- 1. While maintaining the orientation of the phone, the phone was retracted parallel to the reference plane far enough to enable a rotation of the phone by 15degrees.
- 2. The phone was then rotated around the horizontal line by 15 degrees.
- While maintaining the orientation of the phone, the phone was moved parallel to the reference plane until any part of the handset touched the head. (In this position, point A was located on the line RE-LE). The tilted position is obtained when the contact is on the pinna. If the contact was at any location other than the pinna, the angle of the phone would then be reduced. In this situation, the tilted position was obtained when any part of the phone was in contact of the ear as well as a second part of the phone was in contact with the head (see Figure 7-2).

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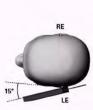


Figure 7-2 Front, Side and Top View of Ear/15° Tilt **Position**

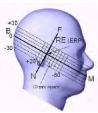


Figure 7-3 Side view w/ relevant markings

7.4 SAR Evaluations near the Mouth/Jaw Regions of the SAM Phantom

Antennas located near the bottom of a phone may require SAR measurements around the mouth and jaw regions of the SAM head phantom. This typically applies to clam-shell style phones that are generally longer in the unfolded normal use positions or to certain older style long rectangular phones. Per IEEE 1528-2013, a rotated SAM phantom is necessary to allow probe access to such regions. Both SAM heads of the TwinSAM-Chin20 are rotated 20 degrees around the NF line. Each head can be removed from the table for emptying and cleaning.

Under these circumstances, the following procedures apply, adopted from the FCC guidance on SAR handsets document FCC KDB Publication 648474 D01v06r03. The SAR required in these regions of SAM should be measured using a flat phantom. The phone should be positioned with a separation distance of 4 mm between the ear reference point (ERP) and the outer surface of the flat phantom shell. While maintaining this distance at the ERP location, the low (bottom) edge of the phone should be lowered from the phantom to establish the same separation distance between the peak SAR location identified by the truncated partial SAR distribution measured with the SAM phantom. The distance from the peak SAR location to the phone is determined by the straight line passing perpendicularly through the phantom surface. When it is not feasible to maintain 4 mm separation at the ERP while also establishing the required separation at the peak SAR location, the top edge of the phone will be allowed to touch the phantom with a separation < 4 mm at the ERP. The phone should not be tilted to the left or right while placed in this inclined position to the flat phantom.

7.5 **Body-Worn Accessory Configurations**

Body-worn operating configurations are tested with the belt-clips and holsters attached to the device and positioned against a flat phantom in a normal use configuration (see Figure 7-4). Per FCC KDB Publication 648474 D01v06r03, Body-worn accessory exposure is typically related to voice mode operations when handsets are carried in body-worn accessories. The body-worn accessory procedures in FCC KDB Publication 447498 D01v06 should be used to test for body-worn accessory SAR compliance. without a headset connected to it. This enables the test results for such configuration to be compatible with that required for hotspot mode when the body-worn accessory test separation



Figure 7-4 Sample Body-Worn Diagram

distance is greater than or equal to that required for hotspot mode, when applicable. When the reported SAR for a body-worn accessory, measured without a headset connected to the handset, is > 1.2 W/kg, the highest reported SAR configuration for that wireless mode and frequency band should be repeated for that body-worn accessory with a headset attached to the handset.

Accessories for Body-worn operation configurations are divided into two categories: those that do not contain metallic components and those that do contain metallic components. When multiple accessories that do not

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contain metallic components are supplied with the device, the device is tested with only the accessory that dictates the closest spacing to the body. Then multiple accessories that contain metallic components are tested with the device with each accessory. If multiple accessories share an identical metallic component (i.e. the same metallic belt-clip used with different holsters with no other metallic components) only the accessory that dictates the closest spacing to the body is tested.

Body-worn accessories may not always be supplied or available as options for some devices intended to be authorized for body-worn use. In this case, a test configuration with a separation distance between the back of the device and the flat phantom is used. Test position spacing was documented.

Transmitters that are designed to operate in front of a person's face, as in push-to-talk configurations, are tested for SAR compliance with the front of the device positioned to face the flat phantom in head fluid. For devices that are carried next to the body such as a shoulder, waist or chest-worn transmitters, SAR compliance is tested with the accessories, including headsets and microphones, attached to the device and positioned against a flat phantom in a normal use configuration.

7.6 **Extremity Exposure Configurations**

Devices that are designed or intended for use on extremities or mainly operated in extremity only exposure conditions: i.e., hands, wrists, feet and ankles, may require extremity SAR evaluation. When the device also operates in close proximity to the user's body, SAR compliance for the body is also required. The 1g body and 10g extremity SAR Exclusion Thresholds found in KDB Publication 447498 D01v06 should be applied to determine SAR test requirements.

Per KDB Publication 447498 D01v06, Cell phones (handsets) are not normally designed to be used on extremities or operated in extremity only exposure conditions. The maximum output power levels of handsets generally do not require extremity SAR testing to show compliance. Therefore, extremity SAR was not evaluated for this device.

7.7 **Wireless Router Configurations**

Some battery-operated handsets have the capability to transmit and receive user data through simultaneous transmission of WIFI simultaneously with a separate licensed transmitter. The FCC has provided guidance in FCC KDB Publication 941225 D06v02r01 where SAR test considerations for handsets (L x W ≥ 9 cm x 5 cm) are based on a composite test separation distance of 10 mm from the front, back and edges of the device containing transmitting antennas within 2.5 cm of their edges, determined from general mixed use conditions for this type of devices. Since the hotspot SAR results may overlap with the body-worn accessory SAR requirements, the more conservative configurations can be considered, thus excluding some body-worn accessory SAR tests.

When the user enables the personal wireless router functions for the handset, actual operations include simultaneous transmission of both the WIFI transmitter and another licensed transmitter. Both transmitters often do not transmit at the same transmitting frequency and thus cannot be evaluated for SAR under actual use conditions due to the limitations of the SAR assessment probes. Therefore, SAR must be evaluated for each frequency transmission and mode separately and spatially summed with the WIFI transmitter according to FCC KDB Publication 447498 D01v06 procedures. The "Portable Hotspot" feature on the handset was NOT activated during SAR assessments, to ensure the SAR measurements were evaluated for a single transmission frequency RF signal at a time.

7.8 **Phablet Configurations**

For smart phones with a display diagonal dimension > 150 mm or an overall diagonal dimension > 160 mm that provide similar mobile web access and multimedia support found in mini-tablets or UMPC mini-tablets that

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support voice calls next to the ear, the phablets procedures outlined in KDB Publication 648474 D01v06r03 should be applied to evaluate SAR compliance. A device marketed as phablets, regardless of form factors and operating characteristics must be tested as a phablet to determine SAR compliance. In addition to the normally required head and body-worn accessory SAR test procedures required for handsets, the UMPC mini-tablet procedures must also be applied to test the SAR of all surfaces and edges with an antenna <=25 mm from that surface or edge, in direct contact with the phantom, for 10g SAR. The UMPC mini-tablet 1g SAR at 5 mm is not required. When hotspot mode applies, 10g SAR is required only for the surfaces and edges with hotspot mode 1g SAR > 1.2 W/kg.

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RF EXPOSURE LIMITS

8.1 **Uncontrolled Environment**

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

8.2 **Controlled Environment**

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Table 8-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS							
	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIRONMENT					
	General Population (W/kg) or (mW/g)	Occupational (W/kg) or (mW/g)					
Peak Spatial Average SAR Head	1.6	8.0					
Whole Body SAR	0:08	0.4					
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20					

The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

The Spatial Average value of the SAR averaged over the whole body.

The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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8.3 RF Exposure Limits for Frequencies above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 8-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits							
Frequency Range [MHz]	Power Density [mW/cm²]	Average Time [Minutes]					
(A) Limi	ts For Occupational / Controlled E	nvironments					
1,500 – 100,000	5.0	6					
(B) Limits Fo	(B) Limits For General Population / Uncontrolled Environments						
1,500 – 100,000 1.0 30							

Note: 1.0 mW/cm² is 10 W/m²

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9 FCC MEASUREMENT PROCEDURES

Power measurements for licensed transmitters are performed using a base station simulator under digital average power.

9.1 Measured and Reported SAR

Per FCC KDB Publication 447498 D01v06, when SAR is not measured at the maximum power level allowed for production units, the results must be scaled to the maximum tune-up tolerance limit according to the power applied to the individual channels tested to determine compliance. For simultaneous transmission, the measured aggregate SAR must be scaled according to the sum of the differences between the maximum tune-up tolerance and actual power used to test each transmitter. When SAR is measured at or scaled to the maximum tune-up tolerance limit, the results are referred to as reported SAR. The highest reported SAR results are identified on the grant of equipment authorization according to procedures in KDB 690783 D01v01r03.

9.2 **3G SAR Test Reduction Procedure**

In FCC KDB Publication 941225 D01v03r01, certain transmission modes within a frequency band and wireless mode evaluated for SAR are defined as primary modes. The equivalent modes considered for SAR test reduction are denoted as secondary modes. When the maximum output power including tune-up tolerance specified for production units in a secondary mode is ≤ 0.25 dB higher than the primary mode or when the highest reported SAR of the primary mode, scaled by the ratio of specified maximum output power and tune-up tolerance of secondary to primary mode, is ≤ 1.2 W/kg, SAR measurements are not required for the secondary mode. These criteria are referred to as the 3G SAR test reduction procedure. When the 3G SAR test reduction procedure is not satisfied, SAR measurements are additionally required for the secondary mode.

Procedures Used to Establish RF Signal for SAR 9.3

The following procedures are according to FCC KDB Publication 941225 D01v03r01 "3G SAR Measurement Procedures.'

The device is placed into a simulated call using a base station simulator in a RF shielded chamber. Establishing connections in this manner ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. Devices under test are evaluated prior to testing, with a fully charged battery and were configured to operate at maximum output power. In order to verify that the device is tested throughout the SAR test at maximum output power, the SAR measurement system measures a "point SAR" at an arbitrary reference point at the start and end of the 1 gram SAR evaluation, to assess for any power drifts during the evaluation. If the power drift deviates by more than 5%, the SAR test and drift measurements are repeated.

9.4 SAR Measurement Conditions for UMTS

9.4.1 **Output Power Verification**

Maximum output power is verified on the High, Middle and Low channels according to the general descriptions in section 5.2 of 3GPP TS 34.121, using the appropriate RMC with TPC (transmit power control) set to all "1s" or applying the required inner loop power control procedures to maintain maximum output power while HSUPA is active. Results for all applicable physical channel configurations (DPCCH, DPDCHn and spreading codes, HS-DPCCH etc) are tabulated in this test report. All configurations that are not supported by the DUT or cannot be measured due to technical or equipment limitations are identified.

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Head SAR Measurements

SAR for next to the ear head exposure is measured using a 12.2 kbps RMC with TPC bits configured to all "1's". The 3G SAR test reduction procedure is applied to AMR configurations with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured for 12.2 kbps AMR in 3.4 kbps SRB (signaling radio bearer) using the highest reported SAR configuration in 12.2 kbps RMC for head exposure.

9.4.3 **Body SAR Measurements**

SAR for body exposure configurations is measured using the 12.2 kbps RMC with the TPC bits all "1s". The 3G SAR test reduction procedure is applied to other spreading codes and multiple DPDCH_n configurations supported by the handset with 12.2 kbps RMC as the primary mode. Otherwise, SAR is measured using an applicable RMC configuration with the corresponding spreading code or DPDCHn, for the highest reported SAR configuration in 12.2 kbps RMC.

SAR Measurements with Rel 5 HSDPA 9.4.4

The 3G SAR test reduction procedure is applied to HSDPA body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSDPA is measured using an FRC with H-Set 1 in Sub-test 1 and a 12.2 kbps RMC configured in Test Loop Mode 1, for the highest reported SAR configuration in 12.2 kbps RMC without HSDPA. Handsets with both HSDPA and HSUPA are tested according to Release 6 HSPA test procedures.

9.4.5 SAR Measurements with Rel 6 HSUPA

The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) body configurations with 12.2 kbps RMC as the primary mode. Otherwise, Body SAR for HSPA is measured with E-DCH Subtest 5, using H-Set 1 and QPSK for FRC and a 12.2 kbps RMC configured in Test Loop Mode 1 and power control algorithm 2, according to the highest reported body SAR configuration in 12.2 kbps RMC without HSPA.

When VOIP applies to head exposure, the 3G SAR test reduction procedure is applied with 12.2 kbps RMC as the primary mode; otherwise, the same HSPA configuration used for body SAR measurements are applied to head exposure testing.

9.4.6 SAR Measurement Conditions for DC-HSDPA

SAR is required for Rel. 8 DC-HSDPA when SAR is required for Rel. 5 HSDPA; otherwise, the 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable.

9.5 SAR Measurement Conditions for LTE

LTE modes are tested according to FCC KDB 941225 D05v02r04 publication. Establishing connections with base station simulators ensure a consistent means for testing SAR and are recommended for evaluating SAR [4]. The R&S CMW500 or Anritsu MT8820C simulators are used for LTE output power measurements and SAR testing. Closed loop power control was used so the UE transmits with maximum output power during SAR testing. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).

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9.5.1 **Spectrum Plots for RB Configurations**

A properly configured base station simulator was used for SAR tests and power measurements. Therefore, spectrum plots for RB configurations were not required to be included in this report.

9.5.2 **MPR**

MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.

9.5.3 A-MPR

A-MPR (Additional MPR) has been disabled for all SAR tests by setting NS=01 on the base station simulator.

9.5.4 Required RB Size and RB Offsets for SAR Testing

According to FCC KDB 941225 D05v02r04:

- a. Per Section 5.2.1, SAR is required for QPSK 1 RB Allocation for the largest bandwidth
 - i. The required channel and offset combination with the highest maximum output power is required for SAR.
 - ii. When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required. Otherwise, SAR is required for the remaining required test channels using the RB offset configuration with highest output power for that channel.
 - iii. When the reported SAR for a required test channel is > 1.45 W/kg, SAR is required for all RB offset configurations for that channel.
- b. Per Section 5.2.2, SAR is required for 50% RB allocation using the largest bandwidth following the same procedures outlined in Section 5.2.1.
- c. Per Section 5.2.3, QPSK SAR is not required for the 100% allocation when the highest maximum output power for the 100% allocation is less than the highest maximum output power of the 1 RB and 50% RB allocations and the reported SAR for the 1 RB and 50% RB allocations is < 0.8
- d. Per Section 5.2.4 and 5.3, SAR tests for higher order modulations and lower bandwidths configurations are not required when the conducted power of the required test configurations determined by Sections 5.2.1 through 5.2.3 is less than or equal to ½ dB higher than the equivalent configuration using QPSK modulation and when the QPSK SAR for those configurations is <1.45 W/kg.

9.5.5 **TDD**

LTE TDD testing is performed using the SAR test guidance provided in FCC KDB 941225 D05v02r04. TDD is tested at the highest duty factor using UL-DL configuration 0 with special subframe configuration 6 and applying the FDD LTE procedures in KDB 941225 D05v02r04. SAR testing is performed using the extended cyclic prefix listed in 3GPP TS 36.211 Section 4.

9.5.6 **Downlink Only Carrier Aggregation**

Conducted power measurements with LTE Carrier Aggregation (CA) (downlink only) active are made in accordance to KDB Publication 941225 D05Av01r02. The RRC connection is only handled by one cell, the primary component carrier (PCC) for downlink and uplink communications. After making a data connection to the PCC, the UE device adds secondary component carrier(s) (SCC) on the downlink only. All uplink communications and acknowledgements remain identical to specifications when downlink

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carrier aggregation is inactive on the PCC. Additional conducted output powers are measured with the downlink carrier aggregation active for the configuration with highest measured maximum conducted power with downlink carrier aggregation inactive measured among the channel bandwidth, modulation, and RB combinations in each frequency band. Per FCC KDB Publication 941225 D05Av01r02, no SAR measurements are required for downlink only carrier aggregation configurations when the average output power with downlink only carrier aggregation active is not more than 0.25 dB higher than the average output power with downlink only carrier aggregation inactive.

9.6 **SAR Testing with 802.11 Transmitters**

The normal network operating configurations of 802.11 transmitters are not suitable for SAR measurements. Unpredictable fluctuations in network traffic and antenna diversity conditions can introduce undesirable variations in SAR results. The SAR for these devices should be measured using chipset based test mode software to ensure the results are consistent and reliable. See KDB Publication 248227 D01v02r02 for more details.

9.6.1 **General Device Setup**

Chipset based test mode software is hardware dependent and generally varies among manufacturers. The device operating parameters established in test mode for SAR measurements must be identical to those programmed in production units, including output power levels, amplifier gain settings and other RF performance tuning parameters.

A periodic duty factor is required for current generation SAR systems to measure SAR. When 802.11 frame gaps are accounted for in the transmission, a maximum transmission duty factor of 92 - 96% is typically achievable in most test mode configurations. A minimum transmission duty factor of 85% is required to avoid certain hardware and device implementation issues related to wide range SAR scaling. The reported SAR is scaled to 100% transmission duty factor to determine compliance at the maximum tune-up tolerance limit.

9.6.2 U-NII-1 and U-NII-2A

For devices that operate in both U-NII-1 and U-NII-2A bands, when the same maximum output power is specified for both bands, SAR measurement using OFDM SAR test procedures is not required for U-NII-1 unless the highest reported SAR for U-NII-2A is > 1.2 W/kg. When different maximum output powers are specified for the bands. SAR measurement for the U-NII band with the lower maximum output power is not required unless the highest reported SAR for the U-NII band with the higher maximum output power, adjusted by the ratio of lower to higher specified maximum output power for the two bands, is > 1.2 W/kg. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

U-NII-2C and U-NII-3 9.6.3

The frequency range covered by U-NII-2C and U-NII-3 is 380 MHz (5.47 – 5.85 GHz), which requires a minimum of at least two SAR probe calibration frequency points to support SAR measurements. When Terminal Doppler Weather Radar (TDWR) restriction applies, the channels at 5.60 - 5.65 GHz in U-NII-2C band must be disabled with acceptable mechanisms and documented in the equipment certification. Unless band gap channels are permanently disabled. SAR must be considered for these channels. Each band is tested independently according to the normally required OFDM SAR measurement and probe calibration frequency points requirements.

9.6.4 Initial Test Position Procedure

For exposure conditions with multiple test positions, such as handset operating next to the ear, devices with hotspot mode or UMPC mini-tablet, procedures for initial test position can be applied. Using the transmission mode determined by the DSSS procedure or initial test configuration, area scans are measured for all

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positions in an exposure condition. The test position with the highest extrapolated (peak) SAR is used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg, no additional testing for the remaining test positions is required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.5 2.4 GHz SAR Test Requirements

SAR is measured for 2.4 GHz 802.11b DSSS using either the fixed test position or, when applicable, the initial test position procedure. SAR test reduction is determined according to the following:

- 1) When the reported SAR of the highest measured maximum output power channel for the exposure configuration is ≤ 0.8 W/kg, no further SAR testing is required for 802.11b DSSS in that exposure configuration.
- When the reported SAR is > 0.8 W/kg, SAR is required for that position using the next highest measured output power channel. When any reported SAR is > 1.2 W/kg, SAR is required for the third channel; i.e., all channels require testing.

2.4 GHz 802.11 g/n/ax OFDM are additionally evaluated for SAR if the highest reported SAR for 802.11b, adjusted by the ratio of the OFDM to DSSS specified maximum output power, is > 1.2 W/kg. When SAR is required for OFDM modes in 2.4 GHz band, the Initial Test Configuration Procedures should be followed. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.6 **OFDM Transmission Mode and SAR Test Channel Selection**

When the same maximum output power was specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration with the largest channel bandwidth, lowest order modulation and lowest data rate. When the maximum output power of a channel is the same for equivalent OFDM configurations; for example, 802.11a, 802.11n and 802.11ac or 802.11g and 802.11n with the same channel bandwidth, modulation and data rate etc., the lower order 802.11 mode i.e., 802.11a, then 802.11n and 802.11ac or 802.11g then 802.11n, is used for SAR measurement. Per April 2019 TCB Workshop and FCC guidance, 802.11ax/be was considered the highest order 802.11 mode. When the maximum output power are the same for multiple test channels, either according to the default or additional power measurement requirements, SAR is measured using the channel closest to the middle of the frequency band or aggregated band. When there are multiple channels with the same maximum output power, SAR is measured using the higher number channel.

9.6.7 **Initial Test Configuration Procedure**

For OFDM, an initial test configuration is determined for each frequency band and aggregated band, according to the transmission mode with the highest maximum output power specified for SAR measurements. When the same maximum output power is specified for multiple OFDM transmission mode configurations in a frequency band or aggregated band, SAR is measured using the configuration(s) with the largest channel bandwidth, lowest order modulation, lowest data rate and lowest order IEEE 802.11 mode. The channel of the transmission mode with the highest average RF output conducted power will be the initial test configuration.

When the reported SAR is ≤ 0.8 W/kg, no additional measurements on other test channels are required. Otherwise, SAR is evaluated using the subsequent highest average RF output channel until the reported SAR result is ≤ 1.2 W/kg or all channels are measured. When there are multiple untested channels having the same subsequent highest average RF output power, the channel with higher frequency from the lowest

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802.11 mode is considered for SAR measurements (See Section 9.6.6). When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.8 Subsequent Test Configuration Procedures

For OFDM configurations in each frequency band and aggregated band, SAR is evaluated for initial test configuration using the fixed test position or the initial test position procedure. When the highest reported SAR (for the initial test configuration), adjusted by the ratio of the specified maximum output power of the subsequent test configuration to initial test configuration, is ≤ 1.2 W/kg, no additional SAR tests for the subsequent test configurations are required. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

9.6.9 MIMO SAR considerations

Per KDB Publication 248227 D01v02r02, the simultaneous SAR provisions in KDB Publication 447498 D01v06 should be applied to determine simultaneous transmission SAR test exclusion for WIFI MIMO. If the sum of 1g single transmission chain SAR measurements is <1.6 W/kg, no additional SAR measurements for MIMO are required. Alternatively, SAR for MIMO can be measured with all antennas transmitting simultaneously at the specified maximum output power of MIMO operation. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

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10 RF CONDUCTED POWERS

10.1 GSM Conducted Powers

Table 10-1 Measured P_{max} for all DSI for GSM 850 Ant A Measured Plimit for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 1900 Ant A

	Maximum Burst-Averaged Output Power									
		Voice	GPRS/EDGE Data (GMSK)				EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)						EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot
	128	32.64	32.57	31.14	29.16	27.61	26.71	25.07	23.20	22.51
GSM 850	190	32.90	32.90	31.25	29.37	27.66	26.61	25.13	23.30	22.37
	251	32.88	32.87	31.21	29.38	27.59	26.76	25.20	23.41	22.38
	512	26.48	26.54	23.72	22.07	20.78	25.37	23.90	22.03	20.79
GSM 1900	661	26.55	26.62	23.91	22.06	20.79	25.71	23.98	22.32	21.07
	810	26.00	26.00	23.62	21.97	20.52	25.35	23.99	22.19	20.85

Calculated Maximum Frame-Averaged Output Power											
		Voice	GPRS/EDGE Data EDGE Data (GMSK) (8-PSK)								
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE [dBm] 1 Tx Slot	EDGE [dBm] 2 Tx Slot	EDGE [dBm] 3 Tx Slot	EDGE [dBm] 4 Tx Slot	
	128	23.44	23.37	24.95	24.73	24.43	17.51	18.88	18.77	19.33	
GSM 850	190	23.70	23.70	25.06	24.94	24.48	17.41	18.94	18.87	19.19	
	251	23.68	23.67	25.02	24.95	24.41	17.56	19.01	18.98	19.20	
	512	17.28	17.34	17.53	17.64	17.60	16.17	17.71	17.60	17.61	
GSM 1900	661	17.35	17.42	17.72	17.63	17.61	16.51	17.79	17.89	17.89	
	810	16.80	16.80	17.43	17.54	17.34	16.15	17.80	17.76	17.67	
		•									
GSM 850	Frame	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82	
GSM 1900	Avg.Targets:	17.80	17.80	17.81	17.77	17.82	16.80	17.81	17.57	17.82	

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Table 10-2 Measured P_{max} for DSI = 1 (Head) for GSM 1900 Ant A

	Micasarca I max for Bot - 1 (flead) for Goth 1300 Ant A												
		N	laximum E	urst-Aver	aged Out	out Power							
		Voice		GPRS/EDGE Data EDGE Data (GMSK) (8-PSK)									
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE EDGE EDGE ED [dBm] [dBm] [dBm] [dE t 1 Tx Slot 2 Tx Slot 3 Tx Slot 4 Tx						
	512	29.66	29.71	27.76	25.80	24.15	25.37	23.90	22.03	20.79			
GSM 1900	661	29.90	29.94	27.79	25.95	24.19	25.71	23.98	22.32	21.07			
	810	29.70	29.76	27.46	25.58	24.03	25.35	23.99	22.19	20.85			

		Calcula	ted Maxim	num Fram	e-Average	d Output	Power				
		Voice	GPRS/EDGE Data (GMSK)					EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot					
	512	20.46	20.51	21.57	21.37	20.97	16.17	17.71	17.60	17.61	
GSM 1900	661	20.70	20.74	21.60	21.52	21.01	16.51	17.79	17.89	17.89	
	810	20.50	20.56	21.27	21.15	20.85	16.15	17.80	17.76	17.67	
GSM 1900	Frame Avg.Targets:	20.80	20.80	21.81	22.07	21.32	16.80	17.81	17.57	17.82	

Table 10-3 Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for GSM 850 Ant E

<u> Mcasarca</u>	I Illax I OI I	501 0	(DOG)	******	. iotopi	<u> </u>	IIUDICE	, 101 0	<u> </u>	, /\\\\ E
		N	laximum E	Burst-Aver	aged Out	put Power				
		Voice		GPRS/EDGE Data EDGE Data (GMSK) (8-PSK)						
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE EDGE EDGE EDGE [dBm] [dBm] [dBm] [dBm] 4 Tx Slot 2 Tx Slot 3 Tx Slot 4 Tx Slot			
	128	31.98	31.82	31.94	28.71	26.67	26.45	25.08	22.62	21.55
GSM 850	190	32.22	32.05	31.10	28.85	26.79	26.57	25.05	22.66	21.68
	251	32.15	31.97	31.09	28.92	26.90	26.55	24.75	22.55	21.75

Calculated Maximum Frame-Averaged Output Power												
		Voice		GPRS/EDGE Data (GMSK)					EDGE Data (8-PSK)			
Band	Channel	GSM [dBm] CS (1 Slot)	[dBm] GPRS GPRS GPRS EDGE EDGE [dBm]					[dBm]	EDGE [dBm] 4 Tx Slot			
	128	22.78	22.62	25.75	24.28	23.49	17.25	18.89	18.19	18.37		
GSM 850	190	23.02	22.85	24.91	24.42	23.61	17.37	18.86	18.23	18.50		
	251	22.95	22.77	24.90	24.49	23.72	17.35	18.56	18.12	18.57		
	·											
GSM 850	Frame Avg.Targets:	23.30	23.30	25.31	25.07	24.32	17.80	18.81	18.57	18.82		

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Table 10-4 Measured Plimit for DSI = 1 (Head) for GSM 850 Ant E

Micasarea 7 mm for Bot - 1 (fieud) for Com Coo Ant E												
		N	laximum B	Burst-Aver	aged Out	put Power						
		Voice		GPRS/EDGE Data EDGE Data (GMSK) (8-PSK)								
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE EDGE EDGE EDG [dBm] [dBm] [dBm] [dB t 1 Tx Slot 2 Tx Slot 3 Tx Slot 4 Tx					
	128	29.72	29.74	26.94	24.22	23.24	26.45	25.08	22.62	21.55		
GSM 850	190	29.85	29.89	27.01	24.39	23.20	26.57	25.05	22.66	21.68		
	251	29.90	29.90	27.46	24.47	23.27	26.55	24.75	22.55	21.75		

Calculated Maximum Frame-Averaged Output Power											
		Voice	GPRS/EDGE Data EDGE L (GMSK) (8-PS								
Band	Channel	GSM [dBm] CS (1 Slot)	GPRS [dBm] 1 Tx Slot	GPRS [dBm] 2 Tx Slot	GPRS [dBm] 3 Tx Slot	GPRS [dBm] 4 Tx Slot	EDGE EDGE EDGE E [dBm] [dBm] [dBm] [t 1 Tx Slot 2 Tx Slot 3 Tx Slot 4				
	128	20.52	20.54	20.75	19.79	20.06	17.25	18.89	18.19	18.37	
GSM 850	190	20.65	20.69	20.82	19.96	20.02	17.37	18.86	18.23	18.50	
	251	20.70	20.70	21.27	20.04	20.09	17.35	18.56	18.12	18.57	
GSM 850	Frame Avg.Targets:	20.80	20.80	20.81	20.77	20.82	17.80	18.81	18.57	18.82	

Note:

- 1. Both burst-averaged and calculated frame-averaged powers are included. Frame-averaged power was calculated from the measured burst-averaged power by converting the slot powers into linear units and calculating the energy over 8 timeslots.
- 2. GPRS/EDGE (GMSK) output powers were measured with coding scheme setting of 1 (CS1) on the base station simulator. CS1 was configured to measure GPRS output power measurements and SAR to ensure GMSK modulation in the signal. Our Investigation has shown that CS1 - CS4 settings do not have any impact on the output levels or modulation in the GPRS modes.
- 3. EDGE (8-PSK) output powers were measured with MCS7 on the base station simulator. MCS7 coding scheme was used to measure the output powers for EDGE since investigation has shown that choosing MCS7 coding scheme will ensure 8-PSK modulation. It has been shown that MCS levels that produce 8-PSK modulation do not have an impact on output power.

GSM Class: B

GPRS Multislot class: 33 (Max 4 Tx uplink slots) EDGE Multislot class: 33 (Max 4 Tx uplink slots)

DTM Multislot Class: N/A

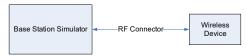


Figure 10-1 **Power Measurement Setup**

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10.2 UMTS Conducted Powers

Table 10-5 Measured P_{max} for all DSI for UMTS 850 Ant A

Measured Plimit for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release	Mode	3GPP 34.121	Cellu	lar Band [dBm]	AW	S Band [d	Bm]	PCS	Bm]	3GPP MPR	
Version		Subtest	4132	4183	4233	1312	1412	1513	9262	9400	9538	[dB]
99	WCDMA	12.2 kbps RMC	24.67	24.88	24.94	18.85	18.23	18.28	18.37	18.43	18.20	-
99	WCDIVIA	12.2 kbps AMR	24.90	24.83	24.92	18.87	18.25	18.32	18.38	18.42	18.16	-
6		Subtest 1	22.87	22.97	23.20	17.17	16.56	16.57	16.58	16.57	16.59	0
6	HSDPA	Subtest 2	22.89	22.98	23.19	17.13	16.53	16.56	16.58	16.55	16.57	0
6	IBDFA	Subtest 3	22.41	22.47	22.70	16.64	16.02	16.05	16.06	16.06	16.07	0.5
6		Subtest 4	22.39	22.46	22.70	16.69	15.63	16.07	16.06	16.07	16.05	0.5
6		Subtest 1	22.92	22.98	23.19	17.12	16.49	16.54	16.52	16.51	16.54	0
6		Subtest 2	20.87	20.91	21.15	15.06	14.48	14.54	14.53	14.58	14.56	2
6	HSUPA	Subtest 3	21.87	21.96	22.09	16.09	15.49	15.48	15.51	15.53	15.54	1
6		Subtest 4	20.86	20.94	21.16	15.15	14.51	14.54	14.51	14.53	14.50	2
6		Subtest 5	22.93	22.98	23.20	17.15	16.52	16.57	16.53	16.57	16.54	0
8		Subtest 1	22.89	22.96	23.17	17.12	16.54	16.55	16.58	16.55	16.55	0
8	DC-HSDPA	Subtest 2	22.88	22.96	23.18	17.14	16.54	16.58	16.57	16.56	16.56	0
8		Subtest 3	22.41	22.47	22.66	16.67	16.02	16.08	16.07	16.05	16.05	0.5
8		Subtest 4	22.40	22.46	22.68	16.64	16.20	16.06	16.08	16.06	16.06	0.5

Table 10-6 Measured P_{max} for DSI = 1 (Head) for UMTS 1750 & UMTS 1900 Ant A

3GPP Release	Mode	3GPP 34.121 Subtest	AW	S Band [d	Bm]	PCS	Band [di	Bm]	3GPP MPR
Version		Sublest	1312	1412	1513	9262	9400	9538	[dB]
99	WCDMA	12.2 kbps RMC	23.45	22.91	22.98	23.94	23.98	23.75	-
99	VVCDIVIA	12.2 kbps AMR	23.44	22.94	23.07	23.93	24.10	23.83	-
6		Subtest 1	21.78	21.20	21.18	22.45	22.49	22.20	0
6	HSDPA	Subtest 2	21.77	21.19	21.21	22.45	22.47	22.18	0
6	TIODEA	Subtest 3	21.29	20.65	20.72	21.10	21.95	21.70	0.5
6		Subtest 4	21.28	20.67	20.71	21.11	21.94	21.72	0.5
6		Subtest 1	21.79	21.18	21.21	22.40	22.44	22.16	0
6		Subtest 2	19.78	19.14	19.16	20.42	20.43	20.14	2
6	HSUPA	Subtest 3	20.75	20.20	20.17	21.39	21.45	21.15	1
6		Subtest 4	19.80	19.15	19.17	20.41	20.40	20.13	2
6		Subtest 5	21.78	21.21	21.21	22.44	22.48	22.18	0
8		Subtest 1	21.80	21.19	21.24	22.49	22.49	22.22	0
8	DC-HSDPA	Subtest 2	21.76	21.17	21.21	22.49	22.49	22.23	0
8		Subtest 3	21.30	20.69	20.71	22.01	22.00	21.71	0.5
8		Subtest 4	21.31	20.73	20.72	21.98	21.97	21.72	0.5

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Table 10-7 Measured P_{max} for DSI = 0 (Body-worn, Hotspot or Phablet) for UMTS 850 Ant E

3GPP Release	Mode	3GPP 34.121 Subtest		lar Band [3GPP MPR [dB]
Version		Sublest	4132	4183	4233	ĮuБj
99	WCDMA	12.2 kbps RMC	23.97	24.16	24.23	-
99	VVCDIVIA	12.2 kbps AMR	23.98	24.12	24.21	-
6		Subtest 1	22.82	23.05	23.05	0
6	HSDPA	Subtest 2	22.83	23.09	23.06	0
6	TIODEA	Subtest 3	22.33	22.58	22.55	0.5
6		Subtest 4	22.32	22.55	22.57	0.5
6		Subtest 1	22.83	23.07	23.09	0
6		Subtest 2	20.80	21.06	21.03	2
6	HSUPA	Subtest 3	21.80	22.01	22.06	1
6		Subtest 4	20.73	21.02	21.01	2
6		Subtest 5	22.77	23.05	23.02	0
8		Subtest 1	22.72	22.87	22.98	0
8	DC-HSDPA	Subtest 2	22.74	22.96	22.99	0
8	DO-1 BDFA	Subtest 3	22.26	22.48	22.51	0.5
8		Subtest 4	22.28	22.49	22.52	0.5

Table 10-8 Measured P_{limit} for DSI = 1 (Head) for UMTS 850 Ant E

3GPP Release	Mode	3GPP 34.121 Subtest	Cellu	lar Band [dBm]	3GPP MPR
Version		Sublest	4132	4183	4233	[dB]
99	WCDMA	12.2 kbps RMC	20.97	21.00	21.16	-
99	WCDIVIA	12.2 kbps AMR	20.61	20.79	20.81	-
6		Subtest 1	19.48	19.70	19.69	0
6	HSDPA	Subtest 2	19.50	19.70	19.71	0
6	TIODEA	Subtest 3	18.98	19.19	19.19	0.5
6		Subtest 4	18.97	19.19	19.18	0.5
6		Subtest 1	19.45	19.69	19.66	0
6		Subtest 2	17.45	17.66	17.66	2
6	HSUPA	Subtest 3	18.45	18.69	18.69	1
6		Subtest 4	17.42	17.67	17.64	2
6		Subtest 5	19.43	19.69	19.67	0
8		Subtest 1	19.39	19.61	19.59	0
8	DC-HSDPA	Subtest 2	19.41	19.61	19.60	0
8	טט-חטטראן	Subtest 3	18.86	19.06	19.07	0.5
8		Subtest 4	18.81	19.05	19.06	0.5

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DC-HSDPA considerations

- 3GPP Specification 34.121-1 Release 8 Ver 8.10.0 was used for DC-HSDPA guidance
- H-Set 12 (QPSK) was confirmed to be used during DC-HSDPA measurements
- The DUT supports UE category 24 for HSDPA

It is expected by the manufacturer that MPR for some HSPA subtests may be up to 2 dB more than specified by 3GPP, but also as low as 0 dB according to the chipset implementation in this model.



Figure 10-2 **Power Measurement Setup**

10.3 LTE Conducted Powers

Note: Per FCC KDB Publication 941225 D05v02r05, LTE SAR for the lower bandwidths was not required for testing since the maximum average output power of all required channels and configurations was not more than 0.5 dB higher than the highest bandwidth and the reported LTE SAR for the highest bandwidth was less than 1.45 W/kg. Lower bandwidth conducted powers for all LTE bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support three non-overlapping channels. Per KDB Publication 941225 D05v02, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

LTE Carrier Aggregation Notes:

- 1. This device supports uplink carrier aggregation for LTE CA 48C, with a maximum of two component carriers. For intraband contiguous carrier aggregation scenarios, 3GPP 36.101 Table 6.2.2A-1 specifies that the aggregate maximum allowed output power is equivalent to the single carrier scenario. 3GPP 36.101 6.2.3A allows for several dB of MPR to be applied when non-contiguous RB allocation is implemented. The conducted powers and MPR settings in this device are permanently implemented per the above 3GPP requirements.
- 2. Per FCC Guidance, the output power with uplink CA active was measured for the configuration with the highest reported SAR with single carrier for each exposure condition. The power was measured with wideband signal integration over both component carriers.

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10.3.1 LTE Band 71

Table 10-9 LTE Band 71 Ant A Measured P_{Max} for all DSI - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	24.41		0
	1	50	24.46	0	0
	1	99	24.36		0
QPSK	50	0	23.23	0-1	1
	50	25	23.33		1
	50	50	23.34 0-1	0-1	1
	100	0	23.30		1
	1	0	23.39	0-1	1
	1	50	23.67		1
	1	99	23.74		1
16QAM	50	0	22.29		2
	50	25	22.34		2
	50	50	22.38		2
	100	0	22.31		2
	1	0	22.21		2
	1	50	22.45	0-2	2
	1	99	22.56		2
64QAM	50	0	21.25		3
	50	25	21.34	0-3	3
	50	50	21.34	0-3	3
	100	0	21.28		3
	1	0	19.19		5
	1	50	19.55		5
	1	99	19.32		5
256QAM	50	0	19.23	0-5	5
	50	25	19.30		5
	50	50	19.29		5
	100	0	19.26		5

Table 10-10 LTE Band 71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

			LTE Band 71		
			20 MHz Bandwidth		
			Mid Channel		
			133297		
Modulation	RB Size	RB Offset	(680.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power	JOFF [UD]	
			[dBm]		
	1	0	23.81		0
	1	50	23.92	0	0
	1	99	23.88		0
QPSK	50	0	22.69		1
	50	25	22.75	0-1	1
50	50	50	22.78	0-1	1
	100	0	22.75		1
	1	0	22.91		1
	1	50	23.10	0-1	1
	1	99	23.12		1
16QAM	50	0	21.69	0-2	2
	50	25	21.76		2
	50	50	21.76	0-2	2
	100	0	21.74		2
	1	0	21.72		2
	1	50	22.10	0-2	2
	1	99	22.10		2
64QAM	50	0	20.69		3
	50	25	20.76		3
	50	50	20.79	0-3	3
	100	0	20.72		3
	1	0	18.58		5
	1	50	18.88		5
	1	99	18.90		5
256QAM	50	0	18.64	0-5	5
	50	25	18.71	•	5
	50	50	18.73		5
	100	0	18.68		5

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Table 10-11 LTE Band 71 Ant E Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 71 20 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 133297 (680.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	17.45		0
	1	50	17.46	0	0
	1	99	17.42		0
QPSK	50	0	17.42		0
	50	25	17.42	0-1	0
	50	50	17.44	U-1	0
	100	0	17.43		0
	1	0	17.45	0-1	0
	1	50	17.42		0
1	1	99	17.45		0
16QAM	50	0	17.44		0
	50	25	17.42		0
	50	50	17.45	0-2	0
	100	0	17.45		0
	1	0	17.43		0
	1	50	17.43	0-2	0
	1	99	17.41		0
64QAM	50	0	17.42		0
	50	25	17.42		0
	50	50	17.45	0-3	0
	100	0	17.44		0
	1	0	17.41		0
	1	50	17.75		0
	1	99	17.60		0
256QAM	50	0	17.40	0-5	0
	50	25	17.45		0
	50	50	17.43		0
	100	0	17.46		0

10.3.2 LTE Band 12

Table 10-12 LTE Band 12 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

			LTE Band 12		
			10 MHz Bandwidth		
			Mid Channel		
			23095	MPR Allowed per	
Modulation	RB Size	RB Offset	(707.5 MHz)	3GPP [dB]	MPR [dB]
			Conducted Power		
		-	[dBm]		
	1	0	24.83	0	0
	1	25	24.78		0
	1	49	24.64		0
QPSK	25	0	23.85		1
	25	12	23.85	0-1	1
	25	25	23.88		1
	50	0	23.80		1
	1	0	24.19		1
	1	25	24.11	0-1	1
	1	49	24.07	0-2	1
16QAM	25	0	22.83		2
	25	12	22.83		2
	25	25	22.89	0-2	2
	50	0	22.79		2
	1	0	23.01		2
	1	25	23.07	0-2	2
	1	49	22.96		2
64QAM	25	0	21.81		3
	25	12	21.83		3
	25	25	21.89	0-3	3
	50	0	21.79		3
	1	0	19.81		5
	1	25	19.95		5
	1	49	19.69		5
256QAM	25	0	19.73	0-5	5
20030 (10)	25	12	19.82		5
	25	25	19.82		5
	50	0	19.75		5
	00		19.70		<u> </u>

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Table 10-13 LTE Band 12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

			10 MHz Bandwidth		
Modulation	RB Size	RB Offset	Mid Channel 23095 (707.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	24.39		0
	1	25	24.34	0	0
	1	49	24.24		0
QPSK	25	0	23.19		1
	25	12	23.19		1
	25	25	23.25	0-1	1
	50	0	23.16		1
	1	0	23.45		1
	1	25	23.47	0-1	1
	1	49	23.38		1
16QAM	25	0	22.22		2
	25	12	22.24	0-2	2
	25	25	22.27	0-2	2
	50	0	22.20		2
	1	0	22.43		2
	1	25	22.47	0-2	2
	1	49	22.40		2
64QAM	25	0	21.17		3
	25	12	21.24		3
	25	25	21.24	0-3	3
	50	0	21.17		3
	1	0	19.28		5
	1	25	19.42		5
	1	49	19.14		5
256QAM	25	0	19.18	0-5	5
	25	12	19.16		5
	25	25	19.21		5
	50	0	19.13		5

Table 10-14 LTE Band 12 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 12						
	10 MHz Bandwidth					
			Mid Channel			
			23095	MPR Allowed per		
Modulation	RB Size	RB Offset	(707.5 MHz)	3GPP [dB]	MPR [dB]	
			Conducted Power			
			[dBm]			
	1	0	20.60		0	
	1	25	20.58	0	0	
	1	49	20.58		0	
QPSK	25	0	20.62		0	
	25	12	20.60	0-1	0	
	25	25	20.61	0-1	0	
	50	0	20.58		0	
	1	0	20.65		0	
	1	25	20.62	0-1	0	
	1	49	20.61		0	
16QAM	25	0	20.60		0	
	25	12	20.65		0	
	25	25	20.59		0	
	50	0	20.60		0	
	1	0	20.62		0	
	1	25	20.62	0-2	0	
	1	49	20.63		0	
64QAM	25	0	20.58		0	
	25	12	20.61		0	
	25	25	20.58	0-3	0	
	50	0	20.62		0	
	1	0	19.23		2	
	1	25	19.30		2	
	1	49	19.16		2	
256QAM	25	0	19.14	0-5	2	
	25	12	19.15		2	
	25	25	19.17		2	
	50	0	19.10		2	

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10.3.3 LTE Band 13

Table 10-15 LTE Band 13 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 13							
	10 MHz Bandwidth Mid Channel						
Modulation	RB Size	RB Offset	23230 (782.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]		
	1	0	23.96		0		
	1	25	24.06	0	0		
	1	49	24.09	•	0		
QPSK	25	0	22.99		1		
	25	12	23.17		1		
	25	25	23.16	0-1	1		
	50	0	23.15		1		
	1	0	23.26		1		
	1	25	23.45	0-1	1		
	1	49	23.42		1		
16QAM	25	0	22.13	0-2	2		
	25	12	22.20		2		
	25	25	22.13		2		
	50	0	22.20		2		
	1	0	22.26		2		
	1	25	22.45	0-2	2		
	1	49	22.45		2		
64QAM	25	0	21.12		3		
	25	12	21.21	0.0	3		
	25	25	21.16	0-3	3		
	50	0	21.17		3		
	1	0	19.15		5		
	1	25	19.12		5		
	1	49	19.30		5		
256QAM	25	0	19.06	0-5	5		
	25	12	19.17		5		
	25	25	19.15		5		
	50	0	19.13		5		

Table 10-16
LTE Band 13 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
			Mid Channel		
Modulation	RB Size	RB Offset	23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]	3GFF [UB]	
	1	0	23.22		0
	1	25	23.43	0	0
	1	49	23.42		0
QPSK	25	0	22.43		1
	25	12	22.53	0-1	1
	25	25	22.49	0-1	1
	50	0	22.50		1
	1	0	22.57	0-1	1
	1	25	22.78		1
	1	49	22.67		1
16QAM	25	0	21.50		2
	25	12	21.52		2
	25	25	21.56		2
	50	0	21.51		2
	1	0	21.62		2
	1	25	21.66	0-2	2
	1	49	21.83		2
64QAM	25	0	20.47		3
	25	12	20.53	0-3	3
	25	25	20.47	0-3	3
	50	0	20.53		3
	1	0	18.53		5
	1	25	18.58		5
	1	49	18.52		5
256QAM	25	0	18.45	0-5	5
	25	12	18.52		5
	25	25	18.49		5
	50	0	18.48		5

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Table 10-17 LTE Band 13 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

LTE Band 13 10 MHz Bandwidth					
Modulation	RB Size	RB Offset	Mid Channel 23230 (782.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]		
	1	0	20.34		0
	1	25	20.29	0	0
	1	49	20.28		0
QPSK	25	0	20.16		0
	25	12	20.30	0-1	0
	25	25	20.21	U- I	0
	50	0	20.24		0
Ť	1	0	20.39	·	0
	1	25	20.59	0-1	0
16QAM	1	49	20.53		0
	25	0	20.21	0-2	0
	25	12	20.30		0
	25	25	20.28		0
	50	0	20.30		0
	1	0	20.52		0
	1	25	20.41	0-2	0
	1	49	20.64		0
64QAM	25	0	20.22		0
	25	12	20.28	0-3	0
	25	25	20.28	0-3	0
	50	0	20.29		0
	1	0	18.52		2
	1	25	18.64		2
	1	49	18.62		2
256QAM	25	0	18.44	0-5	2
	25	12	18.53		2
	25	25	18.48		2
	50	0	18.50		2

10.3.4 LTE Band 14

Table 10-18 LTE Band 14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

LTE Band 14 10 MHz Bandwidth					
			Mid Channel		
Modulation	RB Size	RB Offset	23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	24.69		0
	1	25	24.80	0	0
	1	49	24.85		0
QPSK	25	0	23.58		1
	25	12	23.65	0-1	1
	25	25	23.64	0-1	1
	50	0	23.63		1
	1	0	23.83		1
	1	25	23.88	0-1	1
	1	49	23.90		1
16QAM	25	0	22.58		2
	25	12	22.70		2
	25	25	22.65		2
	50	0	22.65		2
	1	0	22.68		2
	1	25	22.77	0-2	2
	1	49	22.82		2
64QAM	25	0	21.55		3
	25	12	21.66	0-3	3
	25	25	21.61	0-3	3
	50	0	21.63		3
	1	0	19.66		5
	1	25	19.70		5
	1	49	19.70		5
256QAM	25	0	19.54	0-5	5
	25	12	19.65		5
	25	25	19.60		5
	50	0	19.61		5

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Table 10-19
LTE Band 14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

			LTE Band 14 10 MHz Bandwidth		
Modulation	RB Size	RB Offset	Mid Channel 23330 (793.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	24.03		0
	1	25	24.16	0	0
	1	49	24.12		0
QPSK	25	0	22.93		1
	25	12	22.99	0-1	1
	25	25	22.96	0-1	1
	50	0	22.98		1
	1	0	23.12		1
	1	25	23.05	0-1	1
16QAM	1	49	23.04		1
	25	0	21.91	0-2	2
	25	12	21.99		2
	25	25	22.00		2
	50	0	21.98		2
	1	0	22.04		2
	1	25	22.15	0-2	2
	1	49	22.10		2
64QAM	25	0	20.90		3
	25	12	20.99	0-3	3
	25	25	20.97	0-3	3
	50	0	20.96		3
	1	0	18.85		5
	1	25	19.05		5
	1	49	19.10		5
256QAM	25	0	18.87	0-5	5
	25	12	18.99		5
	25	25	18.90		5
	50	0	18.96		5

Table 10-20 LTE Band 14 Ant E Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

10 MHz Bandwidth Mid Channel 23330 MPR Allowed per	
23330 MRR Allowed per	
Madulation DD City DD Offert (702 0 MU=) WIPK Allowed per	
Modulation RB Size RB Offset (793.0 MHz) 3GPP [dB]	MPR [dB]
Conducted Power	
[dBm]	
1 0 20.35	0
1 25 20.29 0	0
1 49 20.45	0
QPSK 25 0 20.37	0
25 12 20.44 0-1	0
25 25 20.46	0
50 0 20.43	0
1 0 20.78	0
1 25 20.71 0-1	0
1 49 20.69	0
16QAM 25 0 20.37	0
25 12 20.45 0-2	0
25 25 20.42	0
50 0 20.43	0
1 0 20.51	0
1 25 20.59 0-2	0
1 49 20.51	0
64QAM 25 0 20.35	0
25 12 20.48 0-3	0
25 25 20.38	0
50 0 20.45	0
1 0 18.98	1.7
1 25 19.07	1.7
1 49 18.99	1.7
256QAM 25 0 18.86 0-5	1.7
25 12 18.98	1.7
25 25 18.94	1.7
50 0 18.92	1.7

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10.3.1 LTE Band 26

Table 10-21 LTE Band 26 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

LTE Band 26 (Cell) 15 MHz Bandwidth								
			Mid Channel					
Modulation	RB Size	RB Offset	26865 (831.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]			
	1	0	24.36		0			
	1	36	24.46	0	0			
	1	74	24.37		0			
QPSK	36	0	23.08		1			
	36	18	23.17	0-1	1			
	36	37	23.08	0-1	1			
	75	0	23.13		1			
	1	0	23.26		1			
	1	36	23.34	0-1	1			
	1	74	23.31		1			
16QAM	36	0	22.16		2			
	36	18	22.22	0-2	2			
	36	37	22.15	0-2	2			
	75	0	22.19		2			
	1	0	22.50		2			
	1	36	22.54	0-2	2			
	1	74	22.46		2			
64QAM	36	0	21.17		3			
	36	18	21.22	0-3	3			
	36	37	21.13	0-3	3			
	75	0	21.16		3			
	1	0	19.25		5			
	1	36	19.26		5			
	1	74	19.17		5			
256QAM	36	0	19.11	0-5	5			
	36	18	19.19		5			
	36	37	19.11		5			
	75	0	19.16		5			

Table 10-22 LTE Band 26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

			LTE Band 26 (Cell) 15 MHz Bandwidth		
Modulation	RB Size	RB Offset	Mid Channel 26865 (831.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	23.63		0
	1	36	23.67	0	0
	1	74	23.55		0
QPSK	36	0	22.50		1
	36	18	22.59	0-1	1
	36	37	22.50	U- I	1
	75	0	22.53		1
	1	0	22.82		1
	1	36	22.91	0-1	1
	1	74	22.89		1
16QAM	36	0	21.58		2
	36	18	21.66	0-2	2
	36	37	21.57	0-2	2
	75	0	21.59		2
	1	0	21.74		2
	1	36	21.73	0-2	2
	1	74	21.75		2
64QAM	36	0	20.56		3
	36	18	20.61	0-3	3
	36	37	20.51	0-3	3
	75	0	20.56		3
	1	0	18.79		5
	1	36	18.87		5
	1	74	18.67		5
256QAM	36	0	18.54	0-5	5
	36	18	18.58		5
	36	37	18.51		5
	75	0	18.57		5

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Table 10-23 LTE Band 26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 15 MHz Bandwidth

LTE Band 26 (Cell)								
	I	I	15 MHz Bandwidth Mid Channel					
Modulation	RB Size	RB Offset	26865 (831.5 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]			
	1	0	20.17		0			
	1	36	20.26	0	0			
	1	74	20.16		0			
QPSK	36	0	20.30		0			
	36	18	20.35	0.4	0			
	36	37	20.28	0-1	0			
	75	0	20.20		0			
	1	0	20.43		0			
	1	36	20.66	0-1	0			
	1	74	20.51		0			
16QAM	36	0	20.37		0			
	36	18	20.40	0-2	0			
	36	37	20.34	0-2	0			
	75	0	20.36		0			
	1	0	20.45		0			
	1	36	20.47	0-2	0			
	1	74	20.41		0			
64QAM	36	0	20.34		0			
	36	18	20.39	0-3	0			
	36	37	20.31	0-3	0			
	75	0	20.33		0			
	1	0	18.71		2			
	1	36	18.82		2			
	1	74	18.63		2			
256QAM	36	0	18.54	0-5	2			
	36	18	18.59		2			
	36	37	18.51		2			
	75	0	18.55		2			

10.3.2 LTE Band 66

Table 10-24

LTE Band 66 (AWS) Ant A Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 66 (AWS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 132072 (1720.0 MHz)	Mid Channel 132322 (1745.0 MHz)	High Channel 132572 (1770.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			O	Conducted Power [dBm]		
	1	0	18.92	18.43	18.57		0
	1	50	18.79	18.37	18.57	0	0
	1	99	18.60	18.30	18.56		0
QPSK	50	0	18.82	18.55	18.53		0
	50	25	18.78	18.54	18.50	0-1	0
	50	50	18.62	18.48	18.51	0-1	0
	100	0	18.77	18.51	18.51		0
	1	0	19.30	19.07	18.93		0
	1	50	19.08	18.96	18.90	0-1	0
	1	99	18.74	19.01	18.67		0
16QAM	50	0	18.86	18.58	18.55		0
	50	25	18.78	18.56	18.53	0-2	0
	50	50	18.65	18.47	18.54		0
	100	0	18.78	18.53	18.52		0
	1	0	19.29	18.72	18.74		0
	1	50	19.29	18.73	18.74	0-2	0
	1	99	18.86	18.81	18.70		0
64QAM	50	0	18.91	18.56	18.53		0
	50	25	18.86	18.53	18.48	0-3	0
	50	50	18.70	18.52	18.54	0-3	0
	100	0	18.82	18.55	18.48		0
	1	0	18.98	18.79	18.63		0
	1	50	19.03	18.67	18.72		0
	1	99	18.80	18.62	18.66		0
256QAM	50	0	18.91	18.59	18.55	0-5	0
	50	25	18.90	18.57	18.49		0
	50	50	18.70	18.52	18.50		0
	100	0	18.84	18.56	18.49		0

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Table 10-25 LTE Band 66 (AWS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS)								
		ı	Low Channel	20 MHz Bandwidth Mid Channel	Illink Observat	I		
			132072	132322	High Channel 132572	MPR Allowed per		
Modulation	RB Size	RB Offset	(1720.0 MHz)	(1745.0 MHz)	(1770.0 MHz)	3GPP [dB]	MPR [dB]	
				Conducted Power [dBm]			
	1	0	23.76	23.45	23.53		0	
	1	50	23.80	23.40	23.59	0	0	
	1	99	23.51	23.36	23.61		0	
QPSK	50	0	22.80	22.48	22.56		1	
	50	25	22.75	22.45	22.57	0-1	1	
	50	50	22.59	22.42	22.57	0-1	1	
	100	0	22.70	22.43	22.55		1	
	1	0	22.90	22.64	22.76		1	
	1	50	22.96	22.66	22.74	0-1	1	
	1	99	22.63	22.64	22.78		1	
16QAM	50	0	21.82	21.52	21.61	0-2	2	
	50	25	21.79	21.52	21.59		2	
	50	50	21.60	21.45	21.58		2	
	100	0	21.77	21.49	21.55		2	
	1	0	22.07	21.71	21.76		2	
	1	50	21.96	21.66	21.87	0-2	2	
	1	99	21.63	21.70	21.90		2	
64QAM	50	0	20.84	20.53	20.59		3	
	50	25	20.82	20.52	20.57	0-3	3	
	50	50	20.63	20.49	20.61	0-3	3	
	100	0	20.75	20.52	20.55		3	
	1	0	18.92	18.77	18.62		5	
	1	50	18.90	18.67	18.71		5	
	1	99	18.70	18.64	18.76		5	
256QAM	50	0	18.83	18.54	18.57	0-5	5	
	50	25	18.77	18.54	18.55		5	
	50	50	18.60	18.48	18.56		5	
	100	0	18.78	18.53	18.52		5	

Table 10-26
LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet)- 20 MHz Bandwidth

				LTE Band 66 (AWS)			
				20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	132072	132322	132572	MPR Allowed per	MPR [dB]
Modulation	ILD OILE	IND Office	(1720.0 MHz)	(1745.0 MHz)	(1770.0 MHz)	3GPP [dB]	iii it [ub]
			(Conducted Power [dBm]		
	1	0	20.18	19.78	20.02		0
	1	50	20.20	19.82	19.99	0	0
	1	99	20.03	19.73	19.86		0
QPSK	50	0	20.23	19.96	19.87		0
	50	25	20.09	19.94	19.87	0-1	0
	50	50	19.99	19.86	19.87	J	0
	100	0	20.09	19.88	19.86		0
	1	0	20.65	20.30	20.35	0-1	0
	1	50	20.68	20.51	20.30		0
16QAM	1	99	20.42	20.35	20.18		0
	50	0	20.27	19.97	19.88		0
	50	25	20.16	19.95	19.89	0-2	0
	50	50	20.05	19.90	19.92		0
	100	0	20.14	19.93	19.86		0
	1	0	20.05	20.19	20.26		0
	1	50	20.68	20.32	20.34	0-2	0
	1	99	20.37	20.20	20.20		0
64QAM	50	0	20.29	19.97	19.88		0
	50	25	20.14	19.96	19.86	0-3	0
	50	50	20.06	19.89	19.92] 0-3	0
	100	0	20.15	19.92	19.83		0
	1	0	19.26	18.89	18.77		1.5
	1	50	19.27	18.96	18.75	1	1.5
Ī	1	99	19.05	18.81	18.61		1.5
256QAM	50	0	18.94	18.66	18.56	0-5	1.5
	50	25	18.83	18.61	18.57]	1.5
	50	50	18.78	18.58	18.58		1.5
	100	0	18.81	18.63	18.56		1.5

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Table 10-27 LTE Band 66 (AWS) Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Band 66 (AWS)											
	20 MHz Bandwidth Low Channel Mid Channel High Channel										
Modulation	RB Size	RB Offset	132072	132322	High Channel 132572	MPR Allowed per	MPR [dB]				
Wodulation	KD Size	KB Oliset	(1720.0 MHz)	(1745.0 MHz)	(1770.0 MHz)	3GPP [dB]	WPK [UB]				
			(Conducted Power [dBm]						
	1	0	15.88	15.48	15.82		0				
	1	50	15.71	15.66	15.75	0	0				
	1	99	15.60	15.56	15.63		0				
QPSK	50	0	15.90	15.60	15.67		0				
	50	25	15.88	15.60	15.63	0-1	0				
	50	50	15.74	15.58	15.65	0-1	0				
	100	0	15.83	15.60	15.56		0				
	1	0	16.01	15.78	16.03		0				
	1	50	15.93	15.67	15.87	0-1	0				
	1	99	15.84	15.80	15.78		0				
16QAM	50	0	15.92	15.71	15.61		0				
	50	25	15.92	15.62	15.66	0-2	0				
	50	50	15.74	15.61	15.70		0				
	100	0	15.86	15.66	15.65		0				
	1	0	16.11	15.85	15.79		0				
	1	50	15.97	15.71	16.00	0-2	0				
	1	99	15.80	15.75	15.83		0				
64QAM	50	0	15.92	15.72	15.63		0				
	50	25	15.93	15.69	15.72	0-3	0				
	50	50	15.76	15.67	15.70	0-3	0				
	100	0	15.92	15.66	15.62		0				
	1	0	16.00	15.75	15.79		0				
	1	50	15.88	15.65	15.84		0				
	1	99	15.66	15.76	15.65		0				
256QAM	50	0	15.92	15.70	15.71	0-5	0				
	50	25	15.89	15.66	15.68		0				
	50	50	15.81	15.63	15.67		0				
	100	0	15.85	15.72	15.66		0				

10.3.3 LTE Band 25

Table 10-28
LTE Band 25 (PCS) Ant A Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth									
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz) Conducted Power [dBm	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
	1	0	18.44	18.15	18.01		0		
	1	50	18.36	18.17	17.84	0	0		
	1	99	18.31	18.06	17.73	U	0		
QPSK	50	0	18.33	18.28	18.00		0		
Qi Oit	50	25	18.38	18.27	17.92		0		
	50	50	18.35	18.23	17.79	0-1	0		
	100	0	18.36	18.25	17.90		0		
	1	0	18.71	18.81	18.42		0		
	1	50	18.60	18.88	18.13	0-1	0		
-	1	99	18.54	18.72	18.15	0-1	0		
16QAM	50	0	18.32	18.33	18.01		0		
IOQAW	50	25	18.38	18.34	17.95	0-2	0		
	50	50	18.42	18.30	17.79		0		
	100	0	18.35	18.26	17.93		0		
	1	0	18.85	18.63	18.27		0		
	1	50	18.85	18.78	18.27	0-2	0		
	1	99	18.52	18.50	18.07	0.2	0		
64QAM	50	0	18.33	18.35	17.99		0		
0.00	50	25	18.35	18.32	17.95		0		
	50	50	18.35	18.29	17.82	0-3	0		
	100	0	18.34	18.27	17.95		0		
	1	0	18.62	18.53	18.20		0		
	1	50	18.68	18.49	18.06		0		
	1	99	18.44	18.36	17.86		0		
256QAM	50	0	18.32	18.34	18.00	0-5	0		
_3000	50	25	18.42	18.33	17.98	• • •	0		
	50	50	18.37	18.26	17.81		0		
	100	0	18.39	18.29	17.98		0		

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Table 10-29 LTE Band 25 (PCS) Ant A Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

	LTE Band 25 (PCS) 20 MHz Bandwidth						
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz) Conducted Power [dBm	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	24.25	23.94	23.67		0
	1	50	24.09	23.95	23.44	0	0
	1	99	24.06	23.76	23.48		0
QPSK	50	0	23.05	23.00	22.65		1
	50	25	23.12	23.06	22.66	0-1	1
	50	50	23.07	22.98	22.53	0-1	1
	100	0	23.07	22.99	22.67		1
	1	0	23.44	23.43	23.32	0-1	1
	1	50	23.46	23.42	23.25		1
	1	99	23.33	23.38	23.04		1
16QAM	50	0	22.07	22.05	21.74		2
	50	25	22.11	22.05	21.70		2
	50	50	22.08	21.99	21.56	0-2	2
	100	0	22.09	22.01	21.67		2
	1	0	22.38	22.38	22.13		2
	1	50	22.37	22.46	22.01	0-2	2
	1	99	22.22	22.19	21.83		2
64QAM	50	0	21.06	21.08	20.70		3
	50	25	21.16	21.09	20.70	0-3	3
	50	50	21.09	21.00	20.57	0-3	3
	100	0	21.09	21.01	20.69		3
	1	0	19.37	19.23	19.06		5
	1	50	19.30	19.28	18.81		5
	1	99	19.14	19.07	18.62		5
256QAM	50	0	19.06	19.08	18.70	0-5	5
	50	25	19.13	19.05	18.70		5
	50	50	19.05	18.98	18.54		5
1	100	0	19.05	19.01	18.70		5

Table 10-30
LTE Band 25 (PCS) Ant F Measured P_{Limit} for DSI= 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

LTE Band 25 (PCS) 20 MHz Bandwidth							
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz) Conducted Power [dBm	High Channel 26590 (1905.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	20.12	20.23	19.96		0
	1	50	20.20	20.22	19.72	0	0
	1	99	20.15	19.93	19.73		0
QPSK	50	0	20.08	20.13	19.99		0
	50	25	20.16	20.17	20.03	0-1	0
	50	50	20.15	20.10	19.86	0-1	0
	100	0	20.15	20.07	19.97		0
	1	0	20.60	20.47	20.38	0-1	0
ĺ	1	50	20.55	20.57	20.29		0
	1	99	20.54	20.29	20.27		0
16QAM	50	0	20.08	20.13	19.98		0
	50	25	20.18	20.14	20.03		0
	50	50	20.13	20.07	19.84		0
	100	0	20.14	20.12	19.97		0
	1	0	20.36	20.55	20.47		0
	1	50	20.54	20.61	20.28	0-2	0
	1	99	20.54	20.26	20.19]	0
64QAM	50	0	20.12	20.15	20.01		0
ĺ	50	25	20.21	20.20	20.09	1	0
	50	50	20.20	20.14	19.87	0-3	0
	100	0	20.14	20.14	19.99	1	0
	1	0	18.95	19.20	19.01		1.5
ļ	1	50	19.03	19.05	18.96		1.5
ļ	1	99	18.91	18.77	18.54	1	1.5
256QAM	50	0	18.75	18.84	18.67	0-5	1.5
ļ	50	25	18.86	18.84	18.75	1	1.5
	50	50	18.78	18.75	18.55	1	1.5
ļ	100	0	18.81	18.82	18.68	1	1.5

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Table 10-31 LTE Band 25 (PCS) Ant F Measured PLimit for DSI = 1 (Head) - 20 MHz Bandwidth

LTE Datid 25 (FG5) After Measured FLimit for DSI = 1 (Head) - 20 Mile Datid Width							
				20 MHz Bandwidth			
Modulation	RB Size	RB Offset	Low Channel 26140 (1860.0 MHz)	Mid Channel 26365 (1882.5 MHz)	High Channel 26590 (1905.0 MHz)	MPR Allowed per	MPR [dB]
			(Conducted Power [dBm	ı]		
	1	0	18.21	18.11	18.19		0
	1	50	18.12	18.13	17.93	0	0
	1	99	18.10	17.87	17.75		0
QPSK	50	0	18.13	18.15	18.02		0
	50	25	18.19	18.16	17.99	0-1	0
	50	50	18.16	18.14	17.84	J 0-1	0
	100	0	18.14	18.17	17.94		0
	1	0	18.40	18.52	18.43		0
	1	50	18.46	18.63	18.23	0-1	0
	1	99	18.39	18.58	18.10		0
16QAM	50	0	18.13	18.18	18.06		0
	50	25	18.19	18.12	18.02	0-2	0
	50	50	18.21	18.15	17.88		0
	100	0	18.14	18.12	17.97		0
	1	0	18.52	18.53	18.45		0
	1	50	18.51	18.54	18.19	0-2	0
	1	99	18.42	18.31	18.06	1	0
64QAM	50	0	18.16	18.19	18.09		0
	50	25	18.19	18.17	18.03	1 [0
	50	50	18.22	18.19	17.90	0-3	0
	100	0	18.17	18.11	17.98	1	0
	1	0	18.33	18.35	18.27		0
	1	50	18.39	18.53	18.12	1	0
	1	99	18.35	18.15	17.81	1	0
256QAM	50	0	18.13	18.16	18.00	0-5	0
	50	25	18.24	18.17	18.05	1	0
	50	50	18.14	18.13	17.86		0
	100	0	18.14	18.15	17.99	1	0

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10.3.1 LTE Band 30

Table 10-32
LTE Band 30 Ant A Measured *P_{Plimit}* for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

			LTE Band 30		
			10 MHz Bandwidth		
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	19.51		0
	1	25	19.52	0	0
	1	49	19.30		0
QPSK	25	0	19.41		0
	25	12	19.40	0-1	0
	25	25	19.31	0-1	0
	50	0	19.35		0
	1	0	19.66		0
	1	25	19.79	0-1	0
	1	49	19.49		0
16QAM	25	0	19.44		0
	25	12	19.38	0-2	0
	25	25	19.36	0-2	0
	50	0	19.38		0
	1	0	19.64		0
	1	25	19.69	0-2	0
	1	49	19.34		0
64QAM	25	0	19.44		0
	25	12	19.41	0.0	0
	25	25	19.32	0-3	0
	50	0	19.38		0
	1	0	18.06		1.5
	1	25	18.17		1.5
	1	49	17.95		1.5
256QAM	25	0	18.04	0-5	1.5
	25	12	18.00		1.5
	25	25	17.92		1.5
	50	0	18.00		1.5

Table 10-33 LTE Band 30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

	LTE Band 30						
		1	10 MHz Bandwidth		T.		
Modulation	RB Size	RB Offset	Mid Channel 27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]		
	1	0	23.09		0		
	1	25	23.21	0	0		
	1	49	23.01		0		
QPSK	25	0	22.07		1		
	25	12	22.06	0-1	1		
	25	25	21.99	0-1	1		
	50	0	22.05		1		
	1	0	22.34		1		
	1	25	22.28	0-1	1		
	1	49	22.17		1		
16QAM	25	0	21.08		2		
	25	12	21.11	0-2	2		
	25	25	21.00	0.2	2		
	50	0	21.07		2		
	1	0	21.30		2		
	1	25	21.34	0-2	2		
	1	49	21.02		2		
64QAM	25	0	20.12		3		
	25	12	20.13	0-3	3		
	25	25	20.01	0-3	3		
	50	0	20.05		3		
	1	0	18.24		5		
	1	25	18.28		5		
	1	49	18.01		5		
256QAM	25	0	18.09	0-5	5		
	25	12	18.08		5		
	25	25	17.97		5		
	50	0	18.03		5		

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Table 10-34
LTE Band 30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

LTE Band 30	
10 MHz Bandwidth	
Mid Channel	
Marketer BR Offers BR Offers 27710 MPR Allowed per	
Modulation RB Size RB Offset (2310.0 MHz) 3GPP [dB]	MPR [dB]
Conducted Power	
[dBm]	
1 0 18.08	0
1 25 18.19 0	0
1 49 18.05	0
QPSK 25 0 18.12	0
25 12 18.17 0-1	0
25 25 18.16	0
50 0 18.05	0
1 0 18.23	0
1 25 18.39 0-1	0
1 49 18.34	0
16QAM 25 0 18.08	0
25 12 18.10 0-2	0
25 25 18.09	0
50 0 18.12	0
1 0 18.20	0
1 25 18.28 0-2	0
1 49 18.37	0
64QAM 25 0 18.10	0
25 12 18.12	0
25 25 18.08 0-3	0
50 0 18.10	0
1 0 17.80	0.5
1 25 17.99	0.5
1 49 17.95	0.5
256QAM 25 0 17.87 0-5	0.5
25 12 17.85	0.5
25 25 17.90	0.5
50 0 17.86	0.5

Table 10-35 LTE Band 30 Ant F Measured P_{Limit} for DSI = 1 (Head) - 10 MHz Bandwidth

			LTE Band 30 10 MHz Bandwidth		
			Mid Channel		
Modulation	RB Size	RB Offset	27710 (2310.0 MHz) Conducted Power [dBm]	MPR Allowed per 3GPP [dB]	MPR [dB]
	1	0	16.40		0
	1	25	16.51	0	0
	1	49	16.56		0
QPSK	25	0	16.60		0
	25	12	16.57	0-1	0
	25	25	16.56	0-1	0
	50	0	16.55		0
	1	0	16.69		0
	1	25	16.94	0-1	0
	1	49	16.84		0
16QAM	25	0	16.56		0
	25	12	16.58	0-2	0
	25	25	16.58	0-2	0
	50	0	16.59		0
	1	0	16.72		0
	1	25	16.74	0-2	0
	1	49	16.73		0
64QAM	25	0	16.60		0
	25	12	16.58	0.2	0
	25	25	16.62	0-3	0
	50	0	16.63		0
	1	0	16.62		0
	1	25	16.79		0
	1	49	16.60		0
256QAM	25	0	16.56	0-5	0
	25	12	16.59		0
	25	25	16.62		0
	50	0	16.57		0

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10.3.2 LTE Band 7

Table 10-36 LTE Band 7 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

				LTE Band 7 20 MHz Bandwidth			
Modulation	RB Size	RB Offset	Low Channel 20850 (2510.0 MHz)	Mid Channel 21100 (2535.0 MHz)	High Channel 21350 (2560.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			(Conducted Power [dBm]		
	1	0	19.64	19.62	19.35		0
	1	50	19.69	19.45	19.32	0	0
	1	99	19.60	19.56	19.32		0
QPSK	50	0	19.73	19.57	19.53		0
	50	25	19.69	19.53	19.58	0-1	0
	50	50	19.64	19.48	19.52]	0
	100	0	19.68	19.54	19.52		0
	1	0	19.81	20.00	19.75	0-1	0
	1	50	19.87	19.84	19.79		0
	1	99	19.91	19.78	19.77		0
16QAM	50	0	19.75	19.78	19.51		0
	50	25	19.67	19.78	19.59	0-2	0
	50	50	19.64	19.50	19.53		0
	100	0	19.68	19.56	19.53		0
	1	0	19.85	19.65	19.80		0
	1	50	19.89	19.66	19.78	0-2	0
	1	99	19.89	19.66	19.76		0
64QAM	50	0	19.74	19.59	19.55		0
	50	25	19.70	19.59	19.64	0-3	0
	50	50	19.68	19.51	19.59	0-3	0
	100	0	19.73	19.56	19.61		0
	1	0	18.99	18.73	18.75		1
	1	50	18.95	18.65	18.62		1
	1	99	18.91	18.78	18.77	1	1
256QAM	50	0	18.87	18.69	18.66	0-5	1
	50	25	18.81	18.69	18.73	1	1
	50	50	18.81	18.67	18.68	1	1
	100	0	18.81	18.68	18.68		1

Table 10-37 LTE Band 7 Ant B Measured P_{Max} for DSI = 1 (Head) - 20 MHz Bandwidth

				LTE Band 7	- 1 (11 0 44)		
				20 MHz Bandwidth			
			Low Channel	Mid Channel	High Channel		
Modulation	RB Size	RB Offset	20850	21100	21350	MPR Allowed per	MPR [dB]
Woddiation		KD Oliset	(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)	3GPP [dB]	MIF IX [GD]
				Conducted Power [dBm]			
	1	0	23.23	23.67	23.58		0
	1	50	23.68	23.65	23.46	0	0
	1	99	23.59	23.65	23.49		0
QPSK	50	0	22.93	22.90	22.70		1
	50	25	22.87	22.76	22.70	0-1	1
	50	50	22.86	22.71	22.74	0-1	1
	100	0	22.86	22.71	22.72		1
	1	0	22.67	22.95	22.96		1
16QAM	1	50	22.89	22.82	22.99	0-1	1
	1	99	22.88	22.82	22.91		1
	50	0	21.96	21.79	21.72		2
	50	25	21.92	21.77	21.81	0-2	2
	50	50	21.85	21.73	21.74	0-2	2
	100	0	21.89	21.64	21.79		2
	1	0	21.63	21.84	21.93		2
	1	50	21.93	21.84	21.93	0-2	2
	1	99	21.91	21.87	21.94	7	2
64QAM	50	0	20.94	20.87	20.72		3
	50	25	20.92	20.67	20.79		3
	50	50	20.84	20.62	20.74	0-3	3
	100	0	20.86	20.67	20.75	1 1	3
	1	0	18.79	18.74	18.84		5
	1	50	18.91	18.78	18.81	1	5
	1	99	18.93	18.73	18.78	†	5
256QAM	50	0	18.94	18.72	18.78	0-5	5
, i	50	25	18.88	18.71	18.77	1	5
	50	50	18.85	18.68	18.75	1	5
	100	0	18.85	18.68	18.73	1	5

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Table 10-38 LTE Band 7 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

	LTE Band 7											
				20 MHz Bandwidth								
			Low Channel	Mid Channel	High Channel							
Modulation	RB Size	RB Offset	20850	21100	21350	MPR Allowed per	MPR [dB]					
			(2510.0 MHz)	(2535.0 MHz) Conducted Power [dBm	(2560.0 MHz)	3GPP [dB]						
	1	0	16.91	16.94	16.84		0					
	1	50	16.70	16.94	16.57	0	0					
	1	99	16.78	16.73	16.36		0					
QPSK	50	0	16.93	16.95	16.75		0					
QF3N	50	25	16.80	16.92	16.69		0					
	50	50	16.77	16.92	16.53	0-1	0					
	100	0	16.88	16.85	16.68		0					
	1	0	17.12	17.02	16.99		0					
-	1	50	17.07	17.02	16.82	0-1	0					
	1	99	17.03	17.09	16.50	0-1	0					
16QAM	50	0	17.00	16.86	16.83		0					
1000 411	50	25	16.94	16.94	16.74		0					
	50	50	16.81	16.85	16.57	0-2	0					
	100	0	16.96	16.87	16.66		0					
	1	0	17.06	17.07	17.01		0					
	1	50	17.11	17.10	16.81	0-2	0					
	1	99	16.92	16.92	16.56		0					
64QAM	50	0	16.93	16.87	16.85		0					
	50	25	16.96	16.99	16.73	0.0	0					
	50	50	16.74	16.89	16.62	0-3	0					
	100	0	16.93	16.93	16.64		0					
	1	0	17.05	16.86	16.97		0					
	1	50	16.97	17.14	16.72		0					
	1	99	16.92	16.75	16.39		0					
256QAM	50	0	16.96	16.84	16.71	0-5	0					
	50	25	16.93	16.95	16.73		0					
	50	50	16.84	16.87	16.65		0					
	100	0	16.97	16.95	16.68		0					

Table 10-39 LTE Band 7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

	. L Dan	a , Aiit	inicasarca	LTE Band 7	- i (iicaa) -	ZU WILLZ Dalic	4 W I G C I I		
20 MHz Bandwidth									
			Low Channel	Mid Channel	High Channel				
	RB Size		20850	21100	21350	MPR Allowed per	*****		
Modulation		RB Offset	(2510.0 MHz)	(2535.0 MHz)	(2560.0 MHz)	3GPP [dB]	MPR [dB]		
			(Conducted Power [dBm]				
	1	0	16.18	15.97	15.95		0		
	1	50	16.10	15.93	15.87	0	0		
	1	99	16.08	15.91	15.75		0		
QPSK	50	0	16.19	16.10	15.98		0		
	50	25	16.17	16.10	15.96	0-1	0		
	50	50	16.13	16.12	15.90	0-1	0		
	100	0	16.14	16.11	15.92		0		
	1	0	16.42	16.19	16.07		0		
	1	50	16.39	16.30	16.01	0-1	0		
	1	99	16.31	16.17	15.97		0		
16QAM	50	0	16.31	16.10	15.96		0		
	50	25	16.14	16.10	15.96	0-2	0		
	50	50	16.12	16.08	15.86	0-2	0		
	100	0	16.12	16.05	15.89		0		
	1	0	16.14	16.23	16.06		0		
	1	50	16.19	16.28	16.14	0-2	0		
	1	99	16.11	16.15	15.89		0		
64QAM	50	0	16.18	16.07	15.99		0		
	50	25	16.10	16.07	15.95	0-3	0		
	50	50	16.09	16.08	15.89	0-3	0		
	100	0	16.09	16.07	15.92		0		
	1	0	16.23	16.06	16.12		0		
	1	50	16.24	16.22	16.11		0		
	1	99	16.14	16.11	15.82	1	0		
256QAM	50	0	16.16	16.05	16.00	0-5	0		
	50	25	16.12	16.10	15.96	1	0		
	50	50	16.13	16.08	15.93	1	0		
	100	0	16.14	16.08	15.95	1	0		

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10.3.3 LTE Band 41

Table 10-40 LTE Band 41 Ant B Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth											
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel					
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
				Co	nducted Power [dl	Bm]						
	1	0	21.74	21.73	21.81	21.84	21.47		0			
	1	50	21.72	21.79	21.76	21.73	21.27	0	0			
	1	99	21.68	21.65	21.53	21.47	21.05		0			
QPSK	50	0	21.85	21.71	21.80	21.90	21.46		0			
	50	25	21.86	21.84	21.83	21.83	21.40	0-1	0			
	50	50	21.81	21.78	21.71	21.64	21.21		0			
	100	0	21.78	21.82	21.82	21.80	21.40		0			
	1	0	21.83	21.69	21.82	21.85	21.31	_	0			
	1	50	21.81	21.70	21.88	21.76	21.32	0-1	0			
	1	99	21.66	21.61	21.69	21.51	21.08		0			
16QAM	50	0	21.85	21.68	21.82	21.91	21.49	_	0			
	50	25	21.82	21.83	21.88	21.86	21.48	0-2	0			
	50	50	21.80	21.77	21.73	21.68	21.19		0			
	100	0	21.84	21.77	21.80	21.84	21.39		0			
	1	0	21.75	21.61	21.84	21.97	21.51		0			
	1	50	21.85	21.78	21.73	21.75	21.42	0-2	0			
	1	99	21.78	21.67	21.54	21.54	20.94		0			
64QAM	50	0	21.74	21.54	21.58	21.70	21.29		0			
	50	25	21.68	21.62	21.62	21.65	21.21	0-3	0			
	50	50	21.69	21.58	21.52	21.47	21.01	0-3	0			
	100	0	21.69	21.59	21.61	21.62	21.23	1	0			
	1	0	19.47	19.48	19.76	19.70	19.33		2			
	1	50	19.65	19.52	19.70	19.53	19.13] [2			
	1	99	19.37	19.49	19.38	19.19	18.87	1	2			
256QAM	50	0	19.67	19.50	19.60	19.69	19.34	0-5	2			
	50	25	19.67	19.59	19.65	19.61	19.23	1	2			
	50	50	19.60	19.58	19.54	19.47	19.05	1	2			
	100	0	19.60	19.55	19.63	19.60	19.21	1	2			

Table 10-41

LTE Band 41 Ant B Measured *P_{Limit}* for DSI = 1 (Head) - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel				
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
				Co	nducted Power [dE	Bm]					
	1	0	21.28	21.18	21.23	21.32	20.87		0		
	1	50	21.26	21.16	21.12	21.11	20.71	0	0		
	1	99	21.19	21.10	20.98	20.90	20.45		0		
QPSK	50	0	21.30	21.20	21.19	21.38	20.88		0		
	50	25	21.35	21.28	21.21	21.22	20.76	0-1	0		
	50	50	21.28	21.20	21.17	21.05	20.60] "	0		
	100	0	21.25	21.22	21.20	21.30	20.75		0		
	1	0	21.29	21.10	21.38	21.39	21.00		0		
	1	50	21.39	21.15	21.38	21.11	20.81	0-1	0		
	1	99	21.26	21.13	21.28	20.86	20.44		0		
16QAM	50	0	21.36	21.16	21.21	21.34	20.90		0		
	50	25	21.33	21.26	21.28	21.26	20.82	0-2	0		
	50	50	21.30	21.18	21.16	21.06	20.60		0		
	100	0	21.31	21.21	21.24	21.22	20.79		0		
	1	0	21.30	21.16	21.26	21.28	20.78		0		
	1	50	21.19	21.08	21.16	21.01	20.68	0-2	0		
	1	99	21.00	21.00	20.99	20.92	20.47		0		
64QAM	50	0	21.37	21.14	21.21	21.31	20.91		0		
	50	25	21.35	21.24	21.27	21.21	20.78	0-3	0		
	50	50	21.31	21.20	21.16	21.04	20.60] 0-3	0		
	100	0	21.32	21.21	21.20	21.22	20.77	Ī	0		
	1	0	19.53	19.39	19.69	19.56	19.35		1.4		
	1	50	19.65	19.68	19.60	19.55	19.13		1.4		
	1	99	19.48	19.42	19.46	19.26	18.87		1.4		
256QAM	50	0	19.72	19.51	19.61	19.71	19.30	0-5	1.4		
	50	25	19.73	19.62	19.65	19.63	19.19	1	1.4		
	50	50	19.67	19.57	19.55	19.42	18.99	1	1.4		
	100	0	19.69	19.58	19.58	19.59	19.18		1.4		

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Table 10-42 LTE Band 41 Ant F Measured PLimit for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

	LTE Band 41 20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel				
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]		
				Co	nducted Power [dl	Bm]					
	1	0	18.18	18.10	17.96	17.97	17.76		0		
	1	50	18.27	18.01	17.81	17.88	17.67	0	0		
	1	99	18.33	17.88	17.62	17.59	17.39		0		
QPSK	50	0	18.27	18.12	17.91	17.91	17.70		0		
	50	25	18.30	18.15	17.92	17.92	17.70	0-1	0		
	50	50	18.32	18.02	17.83	17.79	17.64	0-1	0		
	100	0	18.29	18.05	17.88	17.88	17.62		0		
	1	0	18.33	18.08	17.92	17.94	17.78		0		
	1	50	18.26	17.99	17.94	17.85	17.59	0-1	0		
	1	99	18.16	17.81	17.57	17.66	17.45		0		
16QAM	50	0	18.32	18.16	17.90	17.94	17.70		0		
	50	25	18.32	18.11	17.93	17.92	17.66	0-2	0		
	50	50	18.30	17.98	17.86	17.81	17.62		0		
	100	0	18.30	18.07	17.90	17.88	17.65		0		
	1	0	18.42	18.15	18.03	18.03	17.83		0		
	1	50	18.36	18.15	17.95	17.95	17.71	0-2	0		
	1	99	18.22	17.92	17.74	17.75	17.50		0		
64QAM	50	0	18.31	18.11	17.91	17.93	17.71		0		
	50	25	18.32	18.10	17.94	17.91	17.65	0-3	0		
	50	50	18.24	18.00	17.86	17.83	17.62	0-3	0		
	100	0	18.28	18.03	17.92	17.92	17.64		0		
	1	0	18.21	17.99	17.91	17.97	17.70		0		
	1	50	18.31	18.06	17.79	17.90	17.71		0		
	1	99	18.12	17.73	17.70	17.61	17.48	Τ	0		
256QAM	50	0	18.28	18.08	17.96	17.94	17.75	0-5	0		
	50	25	18.35	18.08	17.98	17.98	17.67	1	0		
	50	50	18.28	17.95	17.87	17.85	17.64		0		
	100	0	18.31	18.06	17.96	17.95	17.66		0		

Table 10-43 LTE Band 41 Ant F Measured Primit for DSI = 1 (Head) - 20 MHz Bandwidth

		Dallu 4	AIILI WIE	asul c u r	LTE Band 41	- i (lieau)	- 20 1911 12	Danawiath	
				20	MHz Band 41				
			Low Channel	Low-Mid Channel	Mid Channel	Mid-High Channel	High Channel		
Modulation	RB Size	RB Offset	39750 (2506.0 MHz)	40185 (2549.5 MHz)	40620 (2593.0 MHz)	41055 (2636.5 MHz)	41490 (2680.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]
			Conducted Power [dBm]						
	1	0	16.62	16.59	16.40	16.42	16.24		0
	1	50	16.76	16.51	16.34	16.24	16.07	0	0
	1	99	16.82	16.37	16.11	16.02	15.86		0
QPSK	50	0	16.79	16.62	16.37	16.37	16.17		0
ĺ	50	25	16.75	16.58	16.39	16.38	16.08	0-1	0
	50	50	16.80	16.45	16.32	16.24	16.06	0-1	0
	100	0	16.77	16.77	16.38	16.36	16.08		0
	1	0	16.86	16.58	16.42	16.34	16.28		0
	1	50	16.78	16.54	16.27	16.29	16.12	0-1	0
	1	99	16.68	16.34	16.11	16.10	15.89		0
16QAM	50	0	16.80	16.62	16.40	16.41	16.17		0
	50	25	16.81	16.58	16.40	16.37	16.10	0-2	0
	50	50	16.75	16.48	16.30	16.26	16.08	0-2	0
	100	0	16.76	16.52	16.41	16.34	16.09		0
	1	0	16.98	16.58	16.51	16.56	16.32		0
	1	50	16.83	16.64	16.49	16.40	16.23	0-2	0
	1	99	16.79	16.42	16.28	16.21	16.02	1 [0
64QAM	50	0	16.81	16.65	16.38	16.41	16.21		0
	50	25	16.82	16.58	16.43	16.38	16.15	1	0
	50	50	16.77	16.45	16.34	16.29	16.11	0-3	0
	100	0	16.79	16.55	16.40	16.35	16.13	1	0
	1	0	16.70	16.52	16.35	16.36	16.20		0
	1	50	16.74	16.58	16.37	16.31	16.13	1	0
	1	99	16.65	16.25	16.14	16.02	15.90	1	0
256QAM	50	0	16.76	16.58	16.43	16.46	16.20	0-5	0
l	50	25	16.83	16.60	16.45	16.41	16.15	1 1	0
l	50	50	16.74	16.46	16.36	16.30	16.11	1	0
	100	0	16.80	16.54	16.41	16.41	16.11	1	0

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10.3.4 LTE Band 48

Table 10-44 LTE Band 48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

	LTE Band 48 20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid-High Channel	High Channel					
Modulation	RB Size	RB Offset	55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
				Conducted	Power [dBm]						
	1	0	19.15	19.11	19.32	19.12		0			
	1	50	19.09	19.10	19.27	19.17	0	0			
	1	99	19.12	19.28	19.45	19.35		0			
QPSK	50	0	19.25	19.22	19.42	19.30		0			
	50	25	19.28	19.32	19.50	19.40	0-1	0			
	50	50	19.24	19.38	19.41	19.35	0-1	0			
	100	0	19.21	19.31	19.36	19.35		0			
	1	0	19.20	19.04	19.26	19.04		0			
	1	50	19.19	19.25	19.40	19.28	0-1	0			
	1	99	19.20	19.31	19.33	19.39		0			
16QAM	50	0	19.26	19.25	19.44	19.28		0			
	50	25	19.29	19.39	19.49	19.41	0-2	0			
	50	50	19.33	19.40	19.43	19.38		0			
	100	0	19.26	19.34	19.46	19.39		0			
	1	0	19.22	19.15	19.42	19.23		0			
	1	50	19.34	19.34	19.40	19.36	0-2	0			
	1	99	19.39	19.45	19.32	19.44		0			
64QAM	50	0	18.75	18.71	18.94	18.82		0			
	50	25	18.80	18.85	19.01	18.94	0-3	0			
	50	50	18.79	18.91	18.90	18.95	0-3	0			
	100	0	18.77	18.83	18.95	18.88		0			
	1	0	16.74	16.61	16.77	16.67		2			
	1	50	16.81	16.77	16.90	16.79		2			
	1	99	16.74	16.87	16.81	16.90		2			
256QAM	50	0	16.77	16.76	16.97	16.82	0-5	2			
	50	25	16.81	16.89	17.04	16.93		2			
	50	50	16.80	16.87	16.90	16.95		2			
	100	0	16.78	16.82	16.99	16.91		2			

Table 10-45
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 20 MHz Bandwidth

		PCC							SCC						Pov	ver
Combination	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	LTE Single Carrier Tx Power (dBm)
CA_48C	LTE B48	20	56207	3646.7	QPSK	50	0	LTE B48	20	56009	3626.9	QPSK	50	50	19.45	19.42

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Table 10-46 LTE Band 48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

	LTE Band 48 20 MHz Bandwidth										
			Low Channel	Low-Mid Channel	Mid-High Channel	High Channel					
Modulation	RB Size	RB Offset	55340 (3560.0 MHz)	55773 (3603.3 MHz)	56207 (3646.7 MHz)	56640 (3690.0 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]			
				Conducted	Power [dBm]						
	1	0	15.10	15.24	15.28	15.03		0			
	1	50	14.98	15.04	15.29	15.31	0	0			
	1	99	15.18	15.21	15.23	15.29		0			
QPSK	50	0	15.20	15.17	15.17	15.21		0			
	50	25	15.22	15.26	15.32	15.34	0-1	0			
	50	50	15.25	15.31	15.30	15.31	0-1	0			
	100	0	15.17	15.24	15.27	15.30		0			
	1	0	15.08	15.02	15.29	14.97		0			
	1	50	15.17	15.19	15.33	15.27	0-1	0			
	1	99	15.02	15.30	15.33	15.33		0			
16QAM	50	0	15.18	15.21	15.38	15.21		0			
	50	25	15.26	15.28	15.42	15.36	0-2	0			
	50	50	15.27	15.33	15.32	15.31		0			
	100	0	15.21	15.25	15.40	15.29		0			
	1	0	15.22	15.19	15.35	15.24		0			
	1	50	15.34	15.27	15.38	15.28	0-2	0			
	1	99	15.30	15.43	15.43	15.44		0			
64QAM	50	0	15.21	15.22	15.38	15.24		0			
	50	25	15.26	15.32	15.47	15.34	0-3	0			
	50	50	15.26	15.33	15.38	15.32	0-3	0			
	100	0	15.23	15.27	15.41	15.32		0			
	1	0	15.09	14.94	15.18	15.14		0			
	1	50	15.10	15.25	15.34	15.17	1	0			
	1	99	15.07	15.26	15.23	15.32]	0			
256QAM	50	0	15.24	15.22	15.41	15.24	0-5	0			
	50	25	15.25	15.35	15.49	15.38	1	0			
	50	50	15.25	15.34	15.37	15.36	1	0			
	100	0	15.23	15.29	15.43	15.32	1	0			

Table 10-47
LTE Band 48 Ant F Uplink Carrier Aggregation Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

	212 Bana 40 / titl Opinik Garrier / tggrogatio								<u></u>	<u> </u>	Lilling 101		. 1	<i>^,</i>		<i>-</i> u::u::	ч
			PCC						SCC						Pov	ver	
Combi	nation	PCC Band	PCC Bandwidth [MHz]	PCC (UL/DL) Channel	PCC (UL/DL) Frequency [MHz]	Modulation	PCC UL# RB	PCC UL RB Offset	SCC Band	SCC Bandwidth [MHz]	SCC (UL/DL) Channel	SCC (UL/DL) Frequency [MHz]	Modulation	SCC UL# RB	SCC UL RB Offset	LTE Tx.Power with UL CA Enabled (dBm)	Carrier Tx
CA_	48C	LTE B48	20	56640	3690.0	QPSK	50	0	LTE B48	20	56442	3670.2	QPSK	50	50	15.42	15.21



Figure 10-3
Power Measurement Setup

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10.4 NR Conducted Powers

Per October 2020 TCB Workshop Guidance, NR FR1 SAR evaluations are being generally based on adapting the existing LTE SAR procedures (FCC KDB Publication 941225 D05v02r05). Therefore, NR SAR for the lower bandwidths were not required for testing based on the measured output power and the reported NR SAR for the highest bandwidth. Lower bandwidth conducted powers for all NR bands can be found in LTE and NR Lower Bandwidth RF Conducted Powers Appendix.

Note: Some bands do not support non-overlapping channels. Per FCC Guidance, when a device supports overlapping channel assignment in a channel bandwidth configuration, the middle channel of the group of overlapping channels should be selected for testing.

10.4.1 NR Band n71

Table 10-48 NR Band n71 Ant A Measured P_{Max} for all DSI - 35 MHz Bandwidth

NR Band n71									
35 MHz Bandwidth									
			Channel	MPR					
Modulation	RB Size	RB	136100 (680.5 MHz)	Allowed per	MPR [dB]				
		Offset	Conducted Power [dBm]	3GPP [dB]					
	1	1	24.05		0.0				
	1	94	24.40	0	0.0				
DFT-s-OFDM	1	186	24.30		0.0				
QPSK	90	0	23.05	0-1	1.0				
Qi SiX	90	49	24.29	0	0.0				
	90	98	23.27	0-1	1.0				
	180	0	23.18	0-1	1.0				
DFT-s-OFDM 16QAM	1	1	23.01	0-1	1.0				
CP-OFDM QPSK	1	1	22.70	0-1.5	1.5				

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Table 10-49 NR Band n71 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth									
		33 IVINZ	Channel	MDD					
Modulation	RB Size	RB	136100 (680.5 MHz)	MPR Allowed per	MPR [dB]				
	ND 0120	Offset	Conducted Power [dBm]	3GPP [dB]	[4.5]				
	1	1	23.48		0.0				
	1	94	23.87	0	0.0				
DFT-s-OFDM	1	186	24.07		0.0				
QPSK	90	0	22.61	0-1	1.0				
Qi Oit	90	49	23.94	0	0.0				
	90	98	22.91	0-1	1.0				
	180	0	22.68	0-1	1.0				
DFT-s-OFDM 16QAM	1	1	22.43	0-1	1.0				
CP-OFDM QPSK	1	1	22.20	0-1.5	1.5				

Table 10-50 NR Band n71 Ant E Measured PLimit for DSI = 1 (Head) - 35 MHz Bandwidth

NR Band n71 35 MHz Bandwidth									
			Channel	MPR					
Modulation	RB Size	RB	136100 (680.5 MHz)	Allowed per	MPR [dB]				
		Offset	Conducted Power [dBm]	3GPP [dB]	[GD]				
	1	1	17.12		0.0				
	1	94	17.55	0	0.0				
DFT-s-OFDM	1	186	17.63		0.0				
QPSK	90	0	17.28	0-1	0.0				
Qi Oit	90	49	17.59	0	0.0				
	90	98	17.48	0-1	0.0				
	180	0	17.39	0-1	0.0				
DFT-s-OFDM 16QAM	1	1	17.21	0-1	0.0				
CP-OFDM QPSK	1	1	17.35	0-1.5	0.0				

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10.4.2 NR Band n12

Table 10-51 NR Band n12 Ant A Measured P_{Max} for all DSI - 15 MHz Bandwidth

NR Band n12									
15 MHz Bandwidth									
			Channel	MPR					
Modulation	RB Size	RB	141500 (707.5 MHz)	Allowed per	MPR [dB]				
		Offset	Conducted Power [dBm]	3GPP [dB]	[]				
	1	1	24.71		0.0				
	1	40	24.70	0	0.0				
DFT-s-OFDM	1	77	24.48		0.0				
QPSK	36	0	23.58	0-1	1.0				
Qi Oit	36	22	24.48	0	0.0				
	36	43	23.69	0-1	1.0				
	75	0	23.63	0-1	1.0				
DFT-s-OFDM 16QAM	1	1	23.36	0-1	1.0				
CP-OFDM QPSK	1	1	23.53	0-1.5	1.5				

Table 10-52 NR Band n12 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth									
			Channel	MPR					
Modulation	RB Size	RB	141500 (707.5 MHz)	Allowed per	MPR [dB]				
modulation	NB GIEG	Offset	Conducted Power [dBm]	3GPP [dB]	[02]				
	1	1	24.15		0.0				
	1	40	24.37	0	0.0				
DFT-s-OFDM	1	77	24.03		0.0				
QPSK	36	0	23.03	0-1	1.0				
Qi Oit	36	22	24.18	0	0.0				
	36	43	23.27	0-1	1.0				
	75	0	23.20	0-1	1.0				
DFT-s-OFDM 16QAM	1	1	22.93	0-1	1.0				
CP-OFDM QPSK	1	1	22.61	0-1.5	1.5				

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Table 10-53 NR Band n12 Ant E Measured PLimit for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n12 15 MHz Bandwidth						
		10 111112 2	Channel	MDD		
Modulation	RB Size	RB Offset	141500 (707.5 MHz)	MPR Allowed per	MPR [dB]	
			Conducted Power [dBm]	3GPP [dB]	[ub]	
	1	1	20.79	0	0.0	
	1	40	20.77		0.0	
DFT-s-OFDM	1	77	20.77		0.0	
QPSK	36	0	20.64	0-1	0.0	
Qi Oit	36	22	20.91	0	0.0	
	36	43	20.78	0-1	0.0	
	75	0	20.75	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	20.68	0-1	0.0	
CP-OFDM QPSK	1	1	20.90	0-1.5	0.0	

10.4.3 NR Band n14

Table 10-54 NR Band n14 Ant A Measured P_{Max} for all DSI - 10 MHz Bandwidth

NR Band n14						
10 MHz Bandwidth						
			Channel	MPR		
Modulation	RB Size	RB	158600 (793 MHz)	Allowed per	MPR [dB]	
	112 0.20	Offset	Conducted Power [dBm]	3GPP [dB]		
	1	1	24.18		0.0	
	1	26	24.32	0	0.0	
DFT-s-OFDM	1	50	24.23		0.0	
QPSK	25	0	23.17	0-1	1.0	
Qi Oit	25	14	24.23	0	0.0	
	25	27	23.15	0-1	1.0	
	50	0	23.11		1.0	
DFT-s-OFDM 16QAM	1	1	23.09	0-1	1.0	
CP-OFDM QPSK	1	1	22.76	0-1.5	1.5	

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Table 10-55 NR Band n14 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth					
	Channel			MPR	
Modulation	RB Size	RB	158600 (793 MHz)	Allowed per	MPR [dB]
	112 0.20	Offset	Conducted Power [dBm]	3GPP [dB]	
	1	1	23.73	0	0.0
	1	26	23.67		0.0
DFT-s-OFDM	1	50	23.70		0.0
QPSK	25	0	22.69	0-1	1.0
Qi Oit	25	14	23.82	0	0.0
	25	27	22.69	0-1	1.0
	50	0	22.57	0-1	1.0
DFT-s-OFDM 16QAM	1	1	22.58	0-1	1.0
CP-OFDM QPSK	1	1	22.29	0-1.5	1.5

Table 10-56 NR Band n14 Ant E Measured PLimit for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n14 10 MHz Bandwidth						
	Channel			MDD		
Modulation	RB Size	RB	158600 (793 MHz)	MPR Allowed per	MPR [dB]	
	112 0.20	Offset	Conducted Power [dBm]	3GPP [dB]		
	1	1	20.43	0	0.0	
	1	26	20.55		0.0	
DFT-s-OFDM	1	50	20.46		0.0	
QPSK	25	0	20.44	0-1	0.0	
Qi Oit	25	14	20.37	0	0.0	
	25	27	20.39	0-1	0.0	
	50	0	20.40	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	20.38	0-1	0.0	
CP-OFDM QPSK	1	1	20.51	0-1.5	0.0	

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10.4.1 NR Band n26

Table 10-57 NR Band n26 Ant A Measured PMax for all DSI - 20 MHz Bandwidth

NR Band n26							
20 MHz Bandwidth							
			Channel	MPR			
Modulation	RB Size	RB	166300 (831.5 MHz)	Allowed per	MPR [dB]		
		Offset	Conducted Power [dBm]	3GPP [dB]			
	1	1	23.91	0	0.0		
	1	53	23.87		0.0		
DFT-s-OFDM	1	104	24.00		0.0		
QPSK	50	0	22.96	0-1	1.0		
Qi Oit	50	28	23.95	0	0.0		
	50	56	22.88	0-1	1.0		
	100	0	23.02	0-1	1.0		
DFT-s-OFDM 16QAM	1	1	22.73	0-1	1.0		
CP-OFDM QPSK	1	1	22.54	0-1.5	1.5		

Table 10-58 NR Band n26 Ant E Measured P_{Max} for DSI = 0 (Body-worn, Hotspot or Phablet) - 20 MHz Bandwidth

NR Band n26					
		20 MHz B	andwidth		
			Channel	MPR	
Modulation	RB Size	RB	166300 (831.5 MHz)	Allowed per	MPR [dB]
	7.2 0.20	Offset	Conducted Power [dBm]	3GPP [dB]	
	1	1	23.51	0	0.0
	1	53	23.49		0.0
DFT-s-OFDM	1	104	23.56		0.0
QPSK	50	0	22.40	0-1	1.0
Qi Oit	50	28	23.53	0	0.0
	50	56	22.43	0-1	1.0
	100	0	22.57	0-1	1.0
DFT-s-OFDM 16QAM	1	1	22.31	0-1	1.0
CP-OFDM QPSK	1	1	22.07	0-1.5	1.5

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Table 10-59 NR Band n26 Ant E Measured P_{Limit} for DSI = 1 (Head) - 20 MHz Bandwidth

NR Band n26 20 MHz Bandwidth					
			Channel	MDD	MPR [dB]
Modulation	RB Size	RB	166300 (831.5 MHz)	MPR Allowed per	
modulation	113 0120	Offset	Conducted Power [dBm]	3GPP [dB]	
	1	1	20.33	0	0.0
	1	53	20.20		0.0
DFT-s-OFDM	1	104	20.11		0.0
QPSK	50	0	20.09	0-1	0.0
Qi Oit	50	28	20.28	0	0.0
	50	56	20.15	0-1	0.0
	100	0	20.21	0-1	0.0
DFT-s-OFDM 16QAM	1	1	20.05	0-1	0.0
CP-OFDM QPSK	1	1	20.28	0-1.5	0.0

10.4.1 NR Band n70

Table 10-60 NR Band n70 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth					
	Channel			MPR	
Modulation	RB Size	RB	340500 (1702.5 MHz)	Allowed per	MPR [dB]
		Offset	Conducted Power [dBm]	3GPP [dB]	1
	1	1	19.14	0	0.0
	1	40	19.20		0.0
DFT-s-OFDM	1	77	19.25		0.0
QPSK	36	0	19.30	0-1	0.0
Qi Oit	36	22	19.25	0	0.0
	36	43	19.27	0-1	0.0
	75	0	19.23	0-1	0.0
DFT-s-OFDM 16QAM	1	1	19.24	0-1	0.0
CP-OFDM QPSK	1	1	19.35	0-1.5	0.0

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Table 10-61 NR Band n70 Ant A Measured P_{Max} for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth						
	Ch					
Modulation	RB Size	RB	340500 (1702.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
		Offset	Conducted Power [dBm]			
	1	1	23.39	0	0.0	
	1	40	23.43		0.0	
DFT-s-OFDM	1	77	23.46		0.0	
QPSK	36	0	22.41	0-1	1.0	
Qi Oit	36	22	23.54	0	0.0	
	36	43	22.40	0-1	1.0	
	75	0	22.52	0-1	1.0	
DFT-s-OFDM 16QAM	1	1	22.44	0-1	1.0	
CP-OFDM QPSK	1	1	22.11	0-1.5	1.5	

Table 10-62 NR Band n70 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 15 MHz Bandwidth

NR Band n70						
15 MHz Bandwidth						
Channel				MPR		
Modulation	RB Size	RB	340500 (1702.5 MHz)	Allowed per	MPR [dB]	
		Offset	Conducted Power [dBm]	3GPP [dB]		
	1	1	19.22	0	0.0	
	1	40	19.39		0.0	
DFT-s-OFDM	1	77	19.37		0.0	
QPSK	36	0	19.19	0-1	0.0	
Qron	36	22	19.29	0	0.0	
	36	43	19.26	0-1	0.0	
	75	0	19.21	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	19.10	0-1	0.0	
CP-OFDM QPSK	1	1	19.44	0-1.5	0.0	

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Table 10-63 NR Band n70 Ant F Measured PLimit for DSI = 1 (Head) - 15 MHz Bandwidth

NR Band n70 15 MHz Bandwidth						
	Char					
Modulation	RB Size	RB	340500 (1702.5 MHz)	MPR Allowed per 3GPP [dB]	MPR [dB]	
Modulation		Offset	Conducted Power [dBm]			
	1	1	16.38	0	0.0	
	1	40	16.21		0.0	
DFT-s-OFDM	1	77	16.42		0.0	
QPSK	36	0	16.12	0-1	0.0	
Qi Oit	36	22	16.32	0	0.0	
	36	43	16.21	0-1	0.0	
	75	0	16.20	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	16.11	0-1	0.0	
CP-OFDM QPSK	1	1	16.26	0-1.5	0.0	

10.4.2 NR Band n66

Table 10-64 NR Band n66 Ant A Measured PLimit for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth					
			Channel	MPR	MPR [dB]
Modulation	RB Size RB Offset	RB	349000 (1745 MHz)	Allowed	
		Conducted Power [dBm]	3GPP [dB]	[42]	
	1	1	18.58		0.0
	1	121	18.17	0	0.0
DFT-s-OFDM	1	240	18.29		0.0
QPSK	120	0	18.48	0-1	0.0
Qi Oit	120	61	18.22	0	0.0
	120	122	18.30	0-1	0.0
	240	0	18.38	0-1	0.0
DFT-s-OFDM 16QAM	1	1	18.58	0-1	0.0
CP-OFDM QPSK	1	1	18.74	0-1.5	0.0

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Table 10-65 NR Band n66 Ant A Measured P_{Max} for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
Chann				MPR		
Modulation	RB Size	RB	349000 (1745 MHz)	Allowed per 3GPP [dB]	MPR [dB]	
	NB 0120	Offset	Conducted Power [dBm]			
	1	1	23.62	0	0.0	
	1	121	23.16		0.0	
DFT-s-OFDM	1	240	23.37		0.0	
QPSK	120	0	22.44	0-1	1.0	
Qi Oit	120	61	23.29	0	0.0	
	120	122	22.18	0-1	1.0	
	240	0	22.28	0-1	1.0	
DFT-s-OFDM 16QAM	1	1	22.48	0-1	1.0	
CP-OFDM QPSK	1	1	22.20	0-1.5	1.5	

Table 10-66 NR Band n66 Ant F Measured PLimit for DSI = 0 (Body-worn, Hotspot or Phablet) - 45 MHz Bandwidth

NR Band n66 45 MHz Bandwidth						
Channel			MPR			
Modulation	RB Size	RB	349000 (1745 MHz)	Allowed per	MPR [dB]	
		Offset	Conducted Power [dBm]	3GPP [dB]		
	1	1	20.17	0	0.0	
	1	121	20.07		0.0	
DFT-s-OFDM	1	240	20.05		0.0	
QPSK	120	0	20.20	0-1	0.0	
Qi Oit	120	61	20.21	0	0.0	
	120	122	19.97	0-1	0.0	
	240	0	19.95	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	20.09	0-1	0.0	
CP-OFDM QPSK	1	1	20.25	0-1.5	0.0	

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Table 10-67 NR Band n66 Ant F Measured Primit for DSI = 1 (Head) - 45 MHz Bandwidth

NR Band nee Ant F Measured Plimit for DSI = 1 (Head) - 45 MHz Bandwidth							
45 MHz Bandwidth							
			Channel	MDD	MPR [dB]		
Modulation	RB Size	RB	349000 (1745 MHz)	MPR Allowed per			
	112 0.20	Offset	Conducted Power [dBm]	3GPP [dB]			
	1	1	16.29	0	0.0		
	1	121	16.04		0.0		
DFT-s-OFDM	1	240	15.99		0.0		
QPSK	120	0	16.15	0-1	0.0		
Qi Oit	120	61	15.97	0	0.0		
	120	122	15.90	0-1	0.0		
	240	0	15.93	0-1	0.0		
DFT-s-OFDM 16QAM	1	1	16.17	0-1	0.0		
CP-OFDM QPSK	1	1	16.30	0-1.5	0.0		

10.4.3 NR Band n25

Table 10-68 NR Band n25 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth						
			Channel	MDD	MPR [dB]	
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	MPR Allowed per		
			Conducted Power [dBm]	3GPP [dB]		
	1	1	18.09	0	0.0	
	1	108	18.10		0.0	
DFT-s-OFDM	1	214	17.79		0.0	
QPSK	108	0	18.08	0-1	0.0	
Qi SiX	108	54	18.09	0	0.0	
	108	108	17.77	0-1	0.0	
	216	0	18.01	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	18.03	0-1	0.0	
CP-OFDM QPSK	1	1	18.24	0-1.5	0.0	

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Table 10-69 NR Band n25 Ant A Measured P_{Max} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth						
		40 MHZ I	Channel	MDD		
Modulation	RB Size	RB	376500 (1882.5 MHz)	MPR Allowed per	MPR [dB]	
modulation	KB Size C	Offset	Conducted Power [dBm]	3GPP [dB]	[ub]	
	1	1	23.74		0.0	
	1	108	23.77	0	0.0	
DFT-s-OFDM	1	214	23.50		0.0	
QPSK	108	0	22.67	0-1	1.0	
Qi SiX	108	54	23.65	0	0.0	
	108	108	22.54	0-1	1.0	
	216	0	22.62	0-1	1.0	
DFT-s-OFDM 16QAM	1	1	22.76	0-1	1.0	
CP-OFDM QPSK	1	1	22.38	0-1.5	1.5	

Table 10-70 NR Band n25 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth						
				MDD		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	MPR Allowed per	MPR [dB]	
	NB 0ize		Conducted Power [dBm]	3GPP [dB]		
	1	1	20.28		0.0	
	1	108	20.31	0	0.0	
DFT-s-OFDM	1	214	20.12		0.0	
QPSK	108	0	20.23	0-1	0.0	
Qi Oit	108	54	20.25	0	0.0	
	108	108	20.01	0-1	0.0	
	216	0	20.24	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	20.19	0-1	0.0	
CP-OFDM QPSK	1	1	20.39	0-1.5	0.0	

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Table 10-71 NR Band n25 Ant F Measured PLimit for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n25 40 MHz Bandwidth						
				MPR		
Modulation	RB Size	RB Offset	376500 (1882.5 MHz)	Allowed per 3GPP [dB]	MPR [dB]	
Woddiation			Conducted Power [dBm]			
	1	1	18.23		0.0	
	1	108	18.28	0	0.0	
DFT-s-OFDM	1	214	17.95		0.0	
QPSK	108	0	18.20	0-1	0.0	
Qi Oit	108	54	18.14	0	0.0	
	108	108	18.12	0-1	0.0	
	216	0	18.17	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	18.11	0-1	0.0	
CP-OFDM QPSK	1	1	18.21	0-1.5	0.0	

10.4.4 NR Band n30

Table 10-72 NR Band n30 Ant A Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30 10 MHz Bandwidth						
				MPR		
Modulation	RB Size	RB	462000 (2310 MHz)	Allowed per	MPR [dB]	
	7.2 0.20	Offset	Conducted Power [dBm]	3GPP [dB]	[,=]	
	1	1	19.26		0.0	
	1	26	19.22	0	0.0	
DFT-s-OFDM	1	50	19.08		0.0	
QPSK	25	0	19.22	0-1	0.0	
Qi SiX	25	14	19.16	0	0.0	
	25	27	19.15	0-1	0.0	
	50	0	19.10	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	19.20	0-1	0.0	
CP-OFDM QPSK	1	1	19.29	0-1.5	0.0	

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Table 10-73 NR Band n30 Ant A Measured P_{Max} for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30							
10 MHz Bandwidth Channel							
				MPR			
Modulation	RB Size	RB	462000 (2310 MHz)	Allowed	MPR [dB]		
		Offset	Conducted Power [dBm]	3GPP [dB]			
	1	1	22.91		0.0		
	1	26	22.78	0	0.0		
DFT-s-OFDM	1	50	22.20		0.0		
QPSK	25	0	21.80	0-1	1.0		
Qi Oit	25	14	22.81	0	0.0		
	25	27	21.63	0-1	1.0		
	50	0	21.73	0-1	1.0		
DFT-s-OFDM 16QAM	1	1	21.81	0-1	1.0		
CP-OFDM QPSK	1	1	21.48	0-1.5	1.5		

Table 10-74 NR Band n30 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 10 MHz Bandwidth

NR Band n30						
10 MHz Bandwidth						
			Channel	MPR		
Modulation	RB Size	RB Size RB Offset	462000 (2310 MHz)	Allowed per 3GPP [dB]	MPR [dB]	
	7.2 0.20		Conducted Power [dBm]			
	1	1	17.80		0.0	
	1	26	18.03		0.0	
DFT-s-OFDM	1	50	18.09		0.0	
QPSK	25	0	17.76	0-1	0.0	
Qi Oit	25	14	17.88	0	0.0	
	25	27	17.93	0-1	0.0	
	50	0	17.83	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	17.53	0-1	0.0	
CP-OFDM QPSK	1	1	18.00	0-1.5	0.0	

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Table 10-75 NR Band n30 Ant F Measured PLimit for DSI = 1 (Head) - 10 MHz Bandwidth

NR Band n30							
10 MHz Bandwidth							
			Channel	MPR			
Modulation	RB Size	RB	462000 (2310 MHz)	Allowed per	MPR [dB]		
		Offset	Conducted Power [dBm]	3GPP [dB]			
	1	1	16.19		0.0		
	1	26	16.47	0	0.0		
DFT-s-OFDM	1	50	16.53		0.0		
QPSK	25	0	16.30	0-1	0.0		
QF SIX	25	14	16.41	0	0.0		
	25	27	16.40	0-1	0.0		
	50	0	16.32	0-1	0.0		
DFT-s-OFDM 16QAM	1	1	16.06	0-1	0.0		
CP-OFDM QPSK	1	1	16.30	0-1.5	0.0		

10.4.5 NR Band n7

Table 10-76 NR Band n7 Ant B Measured PLimit for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7							
50 MHz Bandwidth							
			Channel	MDD	MPR [dB]		
Modulation	RB Size	RB Offset	507000 (2535 MHz)	MPR Allowed per			
	112 0120		Conducted Power [dBm]	3GPP [dB]			
	1	1	19.16		0.0		
	1	135	19.03	0	0.0		
DFT-s-OFDM	1	268	19.30		0.0		
QPSK	135	0	19.17	0-1	0.0		
Qi Oit	135	68	19.29	0	0.0		
	135	135	19.24	0-1	0.0		
	270	0	19.13	0-1	0.0		
DFT-s-OFDM 16QAM	1	1	19.17	0-1	0.0		
CP-OFDM QPSK	1	1	19.34	0-1.5	0.0		

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Table 10-77 NR Band n7 Ant B Measured P_{Max} for DSI = 1 (Head) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
			Channel	MPR	
Modulation	RB Size	RB	507000 (2535 MHz)	Allowed per	MPR [dB]
Wiodulation	Offset	Conducted Power [dBm]	3GPP [dB]	[0.5]	
	1	1	23.25	0	0.0
	1	135	22.99		0.0
DFT-s-OFDM	1	268	23.35		0.0
QPSK	135	0	22.29	0-1	1.0
Qi Oit	135	68	23.28	0	0.0
	135	135	22.34	0-1	1.0
	270	0	22.27	0-1	1.0
DFT-s-OFDM 16QAM	1	1	22.27	0-1	1.0
CP-OFDM QPSK	1	1	21.89	0-1.5	1.5

Table 10-78 NR Band n7 Ant F Measured PLimit for DSI = 0 (Body-worn, Hotspot or Phablet) - 50 MHz Bandwidth

NR Band n7 50 MHz Bandwidth					
			Channel	MPR	
Modulation	ation RB Size RB		507000 RB (2535 MHz)	Allowed per 3GPP [dB]	MPR [dB]
Wodulation	Offset	Conducted Power [dBm]	[]		
	1	1	17.21		0.0
	1	135	17.18	0	0.0
DFT-s-OFDM	1	268	17.11		0.0
QPSK	135	0	17.10	0-1	0.0
Qi Oit	135	68	17.17	0	0.0
	135	135	17.24	0-1	0.0
	270	0	17.06	0-1	0.0
DFT-s-OFDM 16QAM	1	1	17.03	0-1	0.0
CP-OFDM QPSK	1	1	17.30	0-1.5	0.0

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Table 10-79 NR Band n7 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

NR Band n7					
50 MHz Bandwidt			Channel	1400	
Modulation	RB Size RB		507000 RB (2535 MHz)	MPR Allowed per	MPR [dB]
Wodulation	113 0120	Offset	Conducted Power [dBm]	3GPP [dB]	[uD]
	1	1	15.90	0	0.0
	1	135	15.80		0.0
DFT-s-OFDM	1	268	15.77		0.0
QPSK	135	0	15.78	0-1	0.0
Qi Oit	135	68	15.74	0	0.0
	135	135	15.65	0-1	0.0
	270	0	15.75		0.0
DFT-s-OFDM 16QAM	1	1	15.72	0-1	0.0
CP-OFDM QPSK	1	1	15.97	0-1.5	0.0

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NR Band n41 10.4.6

Table 10-80 NR Band n41 PC2 Antenna F Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n41					
100 MHz Bandwidth Channel					
Modulation	DP Size	S Size RB Offset	518598 (2592.99 MHz)	MPR Allowed per	MPR [dB]
Modulation	113 0120		Conducted Power [dBm]	3GPP [dB]	[ub]
	1	1	17.42	0	0.0
	1	137	17.23		0.0
DFT-s-OFDM	1	271	17.02		0.0
QPSK	135	0	17.27	0-1	0.0
Qi SiX	135	69	17.32	0	0.0
	135	138	17.10	0-1	0.0
	270	0	17.23		0.0
DFT-s-OFDM 16QAM	1	1	17.31	0-1	0.0
CP-OFDM QPSK	1	1	17.24	0-1.5	0.0

Table 10-81 NR Band n41 PC2 Antenna F Path 1 Measured PLimit for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
Channel			MDD		
Modulation	Modulation RB Size		518598 (2592.99 MHz)	MPR Allowed per	MPR [dB]
Wodulation	Offset	Conducted Power [dBm]	3GPP [dB]	[ub]	
	1	1	14.45	0	0.0
	1	137	14.27		0.0
DFT-s-OFDM	1	271	14.11		0.0
QPSK	135	0	14.23	0-1	0.0
QFSK	135	69	14.34	0	0.0
	135	138	14.15	0-1	0.0
	270	0	14.26		0.0
DFT-s-OFDM 16QAM	1	1	14.28	0-1	0.0
CP-OFDM QPSK	1	1	14.33	0-1.5	0.0

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Table 10-82 NR Band n41 PC2 Antenna B & E & D Path 1 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

100 MITZ Danawiath					
NR Ba	NR Band n41				
100 MHz	Bandwidth				
	Channel				
518598					
Antenna	(2592.99 MHz)				
	Conducted				
	Power [dBm]				
SRS #2 Ant B	19.72				
SRS #3 Ant E	18.24				
SRS #4 Ant D	16.01				

Table 10-83

NR Band n41 PC2 Antenna B & E & D Path 1 Measured for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth			
	Channel		
518598 Antenna (2592.99 M			
	Conducted Power [dBm]		
SRS #2 Ant B	18.19		
SRS #3 Ant E	16.73		
SRS #4 Ant D	14.54		

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Table 10-84
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n41						
100 MHz Bandwidth						
			Channel	MPR		
Modulation	RB Size	RB	518598 (2592.99 MHz)	Allowed per	MPR [dB]	
		Offset	Offset Conducted Power [dBm] 3		[]	
	1	1	20.86		0.0	
	1	137	20.84	0	0.0	
DFT-s-OFDM	1	271	20.64		0.0	
QPSK	135	0	20.82	0-1	0.0	
Qror	135	69	20.80	0	0.0	
	135	138	20.77	0-1	0.0	
	270	0	20.81	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	20.76	0-1	0.0	
CP-OFDM QPSK	1	1	20.77	0-1.5	0.0	

Table 10-85
NR Band n41 PC2 Antenna B Path 2 Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n41 100 MHz Bandwidth					
		Channel	MDD		
Modulation	518598 (2592.99 MHz)		MPR Allowed per	MPR [dB]	
		Offset Conducted Power [dBm]	3GPP [dB]	[4.2]	
	1	1	25.00		0.0
	1	137	24.93	0	0.0
DFT-s-OFDM	1	271	24.78		0.0
QPSK	135	0	24.92	0-1	0.0
Qi Oit	135	69	24.85	0	0.0
	135	138	24.88	0-1	0.0
	270	0	24.90	0-1	0.0
DFT-s-OFDM 16QAM	1	1	24.91	0-1	0.0
CP-OFDM QPSK	1	1	24.90	0-1.5	0.0

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10.4.7 NR Band n48

Table 10-86 NR Band n48 Ant F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

NR Band n48 40 MHz Bandwidth							
Channel					MPR		
Modulation	n RB Size RB		638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)	Allowed per 3GPP	MPR [dB]
		Offset	Cond	Conducted Power [dBm]			
	1	1	17.81	18.25	18.15		0.0
	1	53	17.96	18.14	18.09	0	0.0
DFT-s-OFDM	1	104	18.09	18.03	18.22		0.0
QPSK	50	0	17.90	18.23	18.05	0-1	0.0
Qi Oit	50	28	18.06	18.28	18.10	0	0.0
	50	56	18.02	18.13	18.20	0-1	0.0
	100	0	17.99	18.16	18.08	0-1	0.0
DFT-s-OFDM 16QAM	1	1	17.82	18.22	18.18	0-1	0.0
CP-OFDM QPSK	1	1	17.84	18.23	18.19	0-1.5	0.0

Table 10-87 NR Band n48 Ant F Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

	NR Band n48 Ant F Measured P _{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth						
NR Band n48							
40 MHz Bandwidth							
	Channel			MPR			
Modulation RB Size	RB	638000 (3570 MHz)	641666 (3624.99 MHz)	645332 (3679.98 MHz)	Allowed per	MPR [dB]	
		Offset	Cond	3GPP [dB]			
	1	1	13.88	14.51	14.42		0.0
	1	53	14.10	14.47	14.30	0	0.0
DFT-s-OFDM	1	104	14.23	14.33	14.45		0.0
QPSK	50	0	14.04	14.50	14.37	0-1	0.0
Qi Oit	50	28	14.18	14.54	14.43	0	0.0
	50	56	14.15	14.42	14.46	0-1	0.0
	100	0	14.12	14.47	14.38	0-1	0.0
DFT-s-OFDM 16QAM	1	1	13.94	14.47	14.38	0-1	0.0
CP-OFDM QPSK	1	1	13.89	14.49	14.35	0-1.5	0.0

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Table 10-88 NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 40 MHz Bandwidth

= ==============================						
NR Band n48						
	40 MHz B	andwidth				
	Channel					
Antenna	638000 641666 645332 Antenna (3570 MHz) (3624.99 MHz) (3679.98 MHz)					
	Conducted Power [dBm]					
SRS #2 Ant C	12.87	13.27	13.23			
SRS #3 Ant I	15.98	16.26	16.03			
SRS #4 Ant D	11.74					

Table 10-89 NR Band n48 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 40 MHz Bandwidth

140 Antenna O, I	, D Mcasarea I	101 DOI - 1 (I	1044) - 40 WII 12 E		
NR Band n48					
	40 MHz Bandwidth				
	Channel				
638000 641666 645332 Antenna (3570 MHz) (3624.99 MHz) (3679.98 MHz)					
	Conducted Power [dBm]				
SRS #2 Ant C	9.05	9.48	9.51		
SRS #3 Ant I	12.13	12.49	12.23		
SRS #4 Ant D	7.81	8.29	8.23		

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10.4.8 NR Band n77

Table 10-90
NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet)
- 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth					
100 WH 12 E			Channel	MDD	
Modulation	RB Size	RB	633334 (3500.01 MHz)	MPR Allowed per	MPR [dB]
modulation	113 0120	Offset	Conducted Power [dBm]	3GPP [dB]	[GD]
	1	1	17.46	0	0.0
	1	137	17.05		0.0
DFT-s-OFDM	1	271	17.31		0.0
QPSK	135	0	17.34	0-1	0.0
Qi Oit	135	69	17.09	0	0.0
	135	138	17.16	0-1	0.0
	270	0	17.19	0	0.0
DFT-s-OFDM 16QAM	1	1	17.29	0-1	0.0
CP-OFDM QPSK	1	1	17.31	0-1.5	0.0

Table 10-91 NR Band n77 DoD Antenna F Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD						
100 MHz Bandwidth						
			Channel	MPR		
Modulation	RB Size	RB	633334 (3500.01 MHz)	Allowed per	MPR [dB]	
		Offset	Conducted Power [dBm]	3GPP [dB]		
	1	1	15.32	0	0.0	
	1	137	14.87		0.0	
DFT-s-OFDM	1	271	15.15		0.0	
QPSK	135	0	15.04	0-1	0.0	
QI OIX	135	69	14.87	0	0.0	
	135	138	14.91	0-1	0.0	
	270	0	15.00	0-1	0.0	
DFT-s-OFDM 16QAM	1	1	15.31	0-1	0.0	
CP-OFDM QPSK	1	1	15.30	0-1.5	0.0	

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Table 10-92 NR Band n77 DoD Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

- 100 MILIZ Dallawiatii			
NR Band n77 DoD			
100 MHz Bandwidth			
	Channel		
633334			
Antenna	(3500.01 MHz)		
	Conducted		
	Power [dBm]		
SRS #2 Ant C	11.61		
SRS #3 Ant I	15.40		
SRS #4 Ant D	10.48		

Table 10-93 NR Band n77 DoD Antenna C, I, D Measured PLimit for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 DoD 100 MHz Bandwidth				
100 IVITZ				
	Channel			
	633334			
Antenna	(3500.01 MHz)			
	Conducted			
	Power [dBm]			
SRS #2 Ant C	10.57			
SRS #3 Ant I	14.42			
SRS #4 Ant D	9.48			

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Table 10-94 NR Band n77 Antenna F Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

NR Band n77						
	100 MHz Bandwidth					
			Channel		MPR	
Modulation	RB Size	RB	650000 (3750 MHz)	662000 (3930 MHz)	Allowed per	MPR [dB]
		Offset	Conducted Power [dBm]		3GPP [dB]	
	1	1	17.66	17.53	0	0.0
	1	137	17.36	17.50		0.0
DFT-s-OFDM	1	271	17.20	17.48		0.0
QPSK	135	0	17.59	17.30	0-1	0.0
Qror	135	69	17.37	17.42	0	0.0
	135	138	17.22	17.57	0-1	0.0
	270	0	17.39	17.26	0-1	0.0
DFT-s-OFDM 16QAM	1	1	17.43	17.39	0-1	0.0
CP-OFDM QPSK	1	1	17.57	17.49	0-1.5	0.0

Table 10-95 NR Band n77 Antenna F Measured PLimit for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77 100 MHz Bandwidth						
			Cha	MDD		
Modulation	RB Size	RB	650000 (3750 MHz)	662000 (3930 MHz)	MPR Allowed per	MPR [dB]
		Offset	Conducted Power [dBm]		3GPP [dB]	[]
	1	1	15.70	15.05	0	0.0
	1	137	15.42	15.03		0.0
DFT-s-OFDM	1	271	15.41	15.36		0.0
QPSK	135	0	15.47	15.05	0-1	0.0
Qi Oit	135	69	15.41	15.16	0	0.0
	135	138	15.35	15.29	0-1	0.0
	270	0	15.38	15.16	0-1	0.0
DFT-s-OFDM 16QAM	1	1	15.75	15.16	0-1	0.0
CP-OFDM QPSK	1	1	15.78	15.21	0-1.5	0.0

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Table 10-96 NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 0 (Body-worn, Hotspot or Phablet) - 100 MHz Bandwidth

- 100 MHZ Ballawiath				
NR Band n77				
100 MHz Bandwidth				
	Channel			
	650000 662000			
Antenna	(3750 MHz)	(3930 MHz)		
	Conducted	Power [dBm]		
SRS #2 Ant C	11.81	10.32		
SRS #3 Ant I	15.47	15.18		
SRS #4 Ant D	10.81	10.11		

Table 10-97 NR Band n77 Antenna C, I, D Measured P_{Limit} for DSI = 1 (Head) - 100 MHz Bandwidth

NR Band n77					
100 MHz Bandwidth					
	Channel				
650000 662000 Antenna (3750 MHz) (3930 MHz)					
	Conducted Power [dBm]				
SRS #2 Ant C	10.87	9.35			
SRS #3 Ant I	14.49	14.16			
SRS #4 Ant D	9.86	9.12			

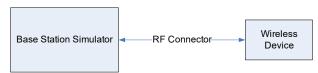


Figure 10-4 Power Measurement Setup - NR FDD

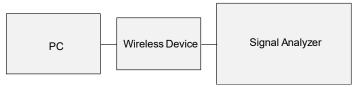


Figure 10-5 Power Measurement Setup - NR TDD

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10.4.9 NTN Band 255

Table 10-98 NTN Band b255 Antenna F Measured P_{Max} for DSI = 0 (Body-worn and Phablet) - 20 MHz Bandwidth

Rx Channel	Tx Channel	Frequency	#Tones	Tone Start	BPSK	QPSK
-			1	0	22.44	22.48
			1	5	22.8	22.73
			1	11	22.42	22.12
			3	0	22.29	19.82
228737	261505	1626.6	3	3	22.38	19.89
			3	6	22.32	19.91
			6	0	22.23	19.17
			6	6	22.32	19.94
			12	0	22.31	19.83
			1	0	22.41	22.42
			1	5	22.76	22.90
	261674		1	11	22.38	22.65
			3	0	22.4	20.17
228906		1643.5	3	3	22.69	20.40
			3	6	22.54	20.24
			6	0	22.64	20.43
			6	6	22.66	20.39
			12	0	22.62	20.69
			1	0	22.42	22.33
			1	5	22.81	22.74
			1	11	22.35	22.16
			3	0	22.55	20.06
229075	261843	1660.4	3	3	22.57	19.93
			3	6	22.48	19.80
			6	0	22.65	20.39
			6	6	22.72	20.52
			12	0	22.54	20.77

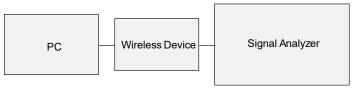


Figure 10-6 Power Measurement Setup - NTN

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10.5 WLAN Conducted Powers

Table 10-99

2.4 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)				2.4GHz	WIFI (20MH	z 802.11ac	SISO ANT H)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		12.40	2412	1		12.22
2437	6	Average	12.80	2437	6	Average	12.09
2462	11		12.45	2462	11		12.40
2.4GHz	WIFI (20MF	lz 802.11g S	SISO ANT H)	2.4GHz	WIFI (20MH	z 802.11ax	SISO ANT H)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		12.56	2412	1		12.39
2437	6	Average	12.24	2437	6	Average	12.27
2462	11		12.01	2462	11		12.58
2.4GHz	WIFI (20MF	Iz 802.11n S	SISO ANT H)	2.4GHz	WIFI (20MH	z 802.11be	SISO ANT H)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		12.27	2412	1		12.37
2437	6	Average	12.11	2437	6	Average	12.25
2462	11		12.37	2462	11	1	12.56

Table 10-100

2.4 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - Ant J

· · · · · · · · · · · · · · · · · · ·							
2.4GHz WIFI (20MHz 802.11b SISO ANT J)				2.4GHz WIFI (20MHz 802.11ac SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		13.00	2412	1		12.71
2437	6	Average	13.30	2437	6	Average	12.70
2462	11		12.98	2462	11		12.57
2.4GHz	WIFI (20MI	tz 802.11g S	SISO ANT J)	2.4GHz	WIFI (20MH	z 802.11ax	SISO ANT J)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		12.82	2412	1		12.86
2437	6	Average	12.81	2437	6	Average	12.84
2462	11		12.69	2462	11		12.67
2.4GHz	WIFI (20MI	lz 802.11n S	SISO ANT J)	2.4GHz	WIFI (20MH	z 802.11be	SISO ANT J)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		12.72	2412	1		12.86
2437	6	Average	12.69	2437	6	Average	12.83
2462	11		12.57	2462	11		12.73

Table 10-101

2.4 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)									
Freq [MHz]	Channel	Detector	ctor Conducted Power [dBm]						
[IVIHZ]			ANT1	ANT2	MIMO				
2412	1		12.33	12.93	15.65				
2437	6	Average	12.69	13.24	15.98				
2462	11		12.38	12.98	15.70				

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Table 10-102 2.4 GHz WLAN Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

2.4GHz WIFI (20MHz 802.11b SISO ANT H)			2.4GHz WIFI (20MHz 802.11ac SISO ANT H)				
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		19.39	2412	1		17.31
2437	6	Average	19.47	2437	6	Average	17.18
2462	11		19.46	2462	11		17.40
2.4GHz	WIFI (20MH	lz 802.11g S	SISO ANT H)	2.4GHz	WIFI (20MH	z 802.11ax S	SISO ANT H)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		17.40	2412	1		17.45
2437	6	Average	17.28	2437	6	Average	17.28
2462	11		17.48	2462	11		17.03
2.4GHz	WIFI (20MH	Iz 802.11n S	SISO ANT H)	2.4GHz	WIFI (20MH	z 802.11be \$	SISO ANT H)
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]
2412	1		17.35	2412	1		17.45
2437	6	Average	17.24	2437	6	Average	17.33
2462	11		17.44	2462	11		17.04

Table 10-103

2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant J

<u></u>	OG I IIIax I	, 110. ago	141 1 0 11 01 1	<u>0. D0.</u>	0 (204)		otopot or i	
2.4GHz	2.4GHz WIFI (20MHz 802.11b SISO ANT J)				2.4GHz WIFI (20MHz 802.11ac SISO ANT J)			
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	
2412	1		19.19	2412	1		17.12	
2437	6	Average	19.48	2437	6	Average	17.40	
2462	11		19.33	2462	11		17.32	
2.4GHz	WIFI (20MI	tz 802.11g S	SISO ANT J)	2.4GHz	WIFI (20MH	z 802.11ax	SISO ANT J)	
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	
2412	1		17.20	2412	1		17.25	
2437	6	Average	17.46	2437	6	Average	17.51	
2462	11		17.40	2462	11		17.45	
2.4GHz	WIFI (20MI	Iz 802.11n S	SISO ANT J)	2.4GHz	WIFI (20MH	z 802.11be	SISO ANT J)	
Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	Freq. [MHz]	Channel	Detector	Conducted Power [dBm]	
2412	1		17.11	2412	1		17.22	
2437	6	Average	17.40	2437	6	Average	17.50	
2462	11		17.34	2462	11		17.45	

Table 10-104

2.4 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

2.4GHz WIFI (20MHz 802.11b MIMO)								
Freq [MHz]	Channel	Detector	Bm]					
			ANT1	ANT2	MIMO			
2412	1		19.01	19.70	22.38			
2437	6	Average	19.20	19.95	22.60			
2462	11		19.01	19.80	22.43			

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Table 10-105 5 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - Ant H

5GHz WIFI (80MHz 802.11ac SISO ANT H)								
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]					
UNII-1	5210	42	11.23					
UNII-2A	5290	58	12.43					
	5530	106	11.63					
UNII-2C	5610	122	12.15					
	5690	138	12.27					
UNII-3	5775	155	12.61					
UNII-4	5885	171	13.11					

5GHz	WIFI (80MH	z 802.11ax	SISO ANT H)	5GHz	WIFI (80MH	z 802.11be	SISO ANT H)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	10.68	UNII-1	5210	42	10.53
UNII-2A	5290	58	12.07	UNII-2A	5290	58	11.77
	5530	106	11.22		5530	106	11.33
UNII-2C	5610	122	12.44	UNII-2C	5610	122	12.49
	5690	138	12.60		5690	138	12.59
UNII-3	5775	155	12.38	UNII-3	5775	155	12.42
UNII-4	5885	171	12.48	UNII-4	5885	171	12.41

5GHz	5GHz WIFI (40MHz 802.11n SISO ANT H)								
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]						
UNII-1	5190	38	13.44						
UNII-1	5230	46	13.28						
UNII-2A	5270	54	13.13						
UNII-ZA	5310	62	13.05						
	5510	102	12.56						
UNII-2C	5590	118	12.40						
UNII-2C	5630	126	12.38						
	5710	142	12.85						
UNII-3	5755	151	12.83						
UNII-3	5795	159	12.94						
LINILLA	5835	167	12.97						
UNII-4	5875	175	13.29						

	/		2122 111211		0070	170	10.27				
5GHz	WIFI (40MH	z 802.11ac	SISO ANT H)	5GHz WIFI (40MHz 802.11ax SISO ANT H)			5GHz	5GHz WIFI (40MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	13.49	UNII-1	5190	38	13.11	UNII-1	5190	38	13.28
OINII-1	5230	46	13.14	OINII-1	5230	46	12.81	OINII- I	5230	46	13.25
UNII-2A	5270	54	13.13	UNII-2A	5270	54	12.68	UNII-2A	5270	54	12.95
UNII-ZA	5310	62	13.09	UNII-ZA	5310	62	12.53	UNII-ZA	5310	62	12.84
	5510	102	12.54		5510	102	12.14		5510	102	12.35
UNII-2C	5590	118	12.53	UNII-2C	5590	118	12.04	UNII-2C	5590	118	12.29
UNII-2C	5630	126	12.43	UNII-20	5630	126	12.01	UNII-2C	5630	126	12.21
	5710	142	12.79		5710	142	12.45		5710	142	12.93
UNII-3	5755	151	12.77	UNII-3	5755	151	12.48	UNII-3	5755	151	12.64
UNII-3	5795	159	12.80	UIVII-3	5795	159	12.53	UIVII-3	5795	159	12.73
UNII-4	5835	167	13.00	UNII-4	5835	167	12.60	UNII-4	5835	167	12.88
UNII-4	5875	175	13.27	UNII-4	5875	175	12.95	UNII-4	5875	175	13.16

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Table 10-106 5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant E

5GHz WIFI (80MHz 802.11ac SISO ANT E)								
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]					
UNII-1	5210	42	11.41					
UNII-2A	5290	58	12.22					
	5530	106	11.57					
UNII-2C	5610	122	12.65					
	5690	138	12.91					
UNII-3	5775	155	12.86					
UNII-4	5885	171	13.14					

		OITH			10.11		
5GHz	WIFI (80MH	z 802.11ax	SISO ANT E)	5GH	z WIFI (80MH	z 802.11be	SISO ANT E)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5210	42	11.23	UNII-1	5210	42	11.45
UNII-2A	5290	58	11.52	UNII-2A	5290	58	11.69
	5530	106	11.53		5530	106	11.54
UNII-2C	5610	122	12.09	UNII-2C	5610	122	12.11
	5690	138	12.23		5690	138	12.31
UNII-3	5775	155	12.51	UNII-3	5775	155	12.48
UNII-4	5885	171	12.11	UNII-4	5885	171	12.15

5GHz	WIFI (40MF	z 802.11n S	ISO ANT E)	5GHz WIFI (40MHz 802.11n SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.67	UNII-1	5190	38	13.44
UNII- I	5230	46	13.01	UNII-1	5230	46	13.28
UNII-2A	5270	54	13.12	UNII-2A	5270	54	13.13
UNII-ZA	5310	62	13.23	UNII-ZA	5310	62	13.05
	5510	102	13.47		5510	102	12.56
UNII-2C	5590	118	13.48	UNII-2C	5590	118	12.40
UNII-2C	5630	126	13.15	UNII-2C	5630	126	12.38
	5710	142	13.44		5710	142	12.85
UNII-3	5755	151	13.75	UNII-3	5755	151	12.83
UIVII-3	5795	159	13.80	UNII-3	5795	159	12.94
UNII-4	5835	167	13.88	LINIII 4	5835	167	12.97
UNII-4	5875	175	13.90	UNII-4	5875	175	13.29

ECUL WIEL (40MUL 002 11co CICO ANT E)		FOUL-	FOLI- WIFL (40MIL- 000 11 CIOO ANT F)			5GHz WIFI (40MHz 802.11be SISO ANT E)					
5GHZ	5GHz WIFI (40MHz 802.11ac SISO ANT E)		5GHZ	5GHz WIFI (40MHz 802.11ax SISO ANT E)			5GHZ	WIFI (40MH	Z 802.11be	SISO ANT E)	
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-1	5190	38	12.63	UNII-1	5190	38	12.16	UNII-1	5190	38	12.52
OINII-1	5230	46	13.00	OINII-1	5230	46	12.50	OINII-1	5230	46	13.06
UNII-2A	5270	54	12.95	UNII-2A	5270	54	12.59	UNII-2A	5270	54	13.09
UNII-ZA	5310	62	13.10	UNII-ZA	5310	62	12.74	UNII-ZA	5310	62	13.25
	5510	102	13.38		5510	102	12.92		5510	102	13.41
UNII-2C	5590	118	13.46	UNII-2C	5590	118	13.04	UNII-2C	5590	118	13.54
UNII-2C	5630	126	13.05	UNII-2C	5630	126	12.60	UNII-2C	5630	126	13.19
	5710	142	13.34		5710	142	12.99		5710	142	13.29
UNII-3	5755	151	13.60	UNII-3	5755	151	13.28	UNII-3	5755	151	13.51
UNII-3	5795	159	13.76	UNII-3	5795	159	13.31	UNII-3	5795	159	13.62
UNII-4	5835	167	13.78	UNII-4	5835	167	13.41	UNII-4	5835	167	13.94
UNII-4	5875	175	13.95	UNII-4	5875	175	13.74	UNII-4	5875	175	13.46

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Table 10-107 5 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - MIMO

		5GHz WIFI	(80MHz 802.11a	c MIMO)	
Band	Freq [MHz]	Channel	Avg. C	onducted Powers	s [dBm]
	[IVITIZ]		ANT1	ANT2	MIMO
UNII-1	5210	42	10.30	11.85	14.15
UNII-2A	5290	58	12.49	12.98	15.75
	5530	106	10.83	11.48	14.18
UNII-2C	5610	122	12.31	12.68	15.51
	5690	138	12.22	12.98	15.62
UNII-3	5775	155	12.31	13.10	15.73
UNII-4	5885	171	12.80	13.22	16.02

	5GHz WIFI (40MHz 802.11n MIMO)								
Band	Freq	Channel	Avg. Co	Avg. Conducted Powers [dBm]					
	[MHz]		ANT1	ANT2	MIMO				
UNII-1	5190	38	13.51	12.72	16.14				
OINII-1	5230	46	13.31	12.98	16.16				
UNII-2A	5270	54	13.22	13.06	16.15				
UNII-ZA	5310	62	13.04	13.21	16.14				
	5510	102	12.53	13.47	16.04				
UNII-2C	5590	118	12.43	13.58	16.05				
UNII-2C	5630	126	12.34	13.16	15.78				
	5710	142	12.82	13.48	16.17				
UNII-3	5755	151	12.83	13.75	16.32				
UIVII-3	5795	159	12.86	13.90	16.42				
UNII-4	5835	167	12.95	13.94	16.48				
UNII-4	5875	175	13.25	13.99	16.65				

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Table 10-108

5 GHz WLAN Measured PLimit Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) - Ant H

5GHz WIFI (20MHz 802.11a SISO ANT H)								
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]					
	5180	36	16.58					
UNII-1	5200	40	16.56					
OINII-I	5220	44	16.44					
	5240	48	16.48					
	5260	52	16.65					
UNII-2A	5280	56	16.69					
UNII-ZA	5300	60	16.37					
	5320	64	16.42					
	5500	100	16.51					
UNII-2C	5600	120	16.29					
UNII-2C	5620	124	16.31					
	5720	144	16.69					
	5745	149	16.69					
UNII-3	5785	157	16.87					
	5825	165	16.97					
	5845	169	16.89					
UNII-4	5865	173	16.88					
	5885	177	16.89					

	58		77 16.	89
	5GHz WIFI	(20MHz 802	.11n SISO ANT H)	
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
	5180	36	16.47	16.0
UNII-1	5200	40	16.40	16.0
UNII-1	5220	44	16.34	16.0
	5240	48	16.43	16.0
	5260	52	16.43	16.0
UNII-2A	5280	56	16.29	16.0
UNII-ZA	5300	60	16.00	16.0
	5320	64	16.11	16.0
	5500	100	16.50	16.0
UNII-2C	5600	120	16.08	16.0
UNII-2C	5620	124	16.21	16.0
	5720	144	16.41	16.0
	5745	149	16.26	16.0
UNII-3	5785	157	16.13	16.0
	5825	165	16.00	16.0
	5845	169	16.49	16.0
UNII-4	5865	173	16.33	16.0
	5885	177	16.05	16.0
	5GHz WIFI (20MHz 802.	11ac SISO ANT H)	
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target
Band		Channel 36		Target 16.0
	[MHz]		Power [dBm]	·
Band UNII-1	[MHz] 5180	36	Power [dBm] 16.40	16.0
	5180 5200	36 40	Power [dBm] 16.40 16.38	16.0 16.0
	5180 5200 5220	36 40 44	Power [dBm] 16.40 16.38 16.34	16.0 16.0 16.0
UNII-1	5180 5200 5220 5240	36 40 44 48	Power [dBm] 16.40 16.38 16.34 16.31	16.0 16.0 16.0 16.0
	5180 5200 5220 5240 5260	36 40 44 48 52	Power [dBm] 16.40 16.38 16.34 16.31 16.34	16.0 16.0 16.0 16.0
UNII-1	5180 5200 5220 5240 5260 5280	36 40 44 48 52 56	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20	16.0 16.0 16.0 16.0 16.0
UNII-1	5180 5200 5220 5240 5260 5280 5300	36 40 44 48 52 56 60 64 100	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02	16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A	5180 5200 5220 5220 5240 5260 5280 5300 5320	36 40 44 48 52 56 60 64	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1	5180 5200 5220 5240 5260 5280 5300 5320 5500	36 40 44 48 52 56 60 64 100	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5240 5260 5280 5320 5320 5500 5600	36 40 44 48 52 56 60 64 100	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5240 5260 5280 5320 5320 5600 5600 5620 5720 5745	36 40 44 48 52 56 60 64 100 120	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47 16.14	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720	36 40 44 48 52 56 60 64 100 120 124	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47 16.14 16.07	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5220 5240 5260 5280 5320 5320 5600 5600 5620 5720 5745	36 40 44 48 52 56 60 64 100 120 124 144 149	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47 16.14 16.07 16.46	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5220 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745	36 40 44 48 52 56 60 64 100 120 124 144 149	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47 16.14 16.07 16.46 16.24	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5220 5240 5260 5280 5320 5320 5500 5600 5620 5725 5745 5785	36 40 44 48 52 56 60 64 100 120 124 144 149 157	Power [dBm] 16.40 16.38 16.34 16.31 16.34 16.20 16.02 16.11 16.47 16.14 16.07 16.46 16.24 16.23	16.0 16.0 16.0 16.0 16.0 16.0 16.0 16.0

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5GHz WIFI (20MHz 802.11ax SISO ANT H)						
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target		
	5180	36	15.16	15.0		
UNII-1	5200	40	15.33	15.0		
UNII-I	5220	44	15.22	15.0		
	5240	48	15.01	15.0		
	5260	52	15.45	15.0		
UNII-2A	5280	56	15.02	15.0		
UNII-ZA	5300	60	15.44	15.0		
	5320	64	15.46	15.0		
	5500	100	15.07	15.0		
UNII-2C	5620	124	15.54	15.0		
UNII-2C	5640	128	15.48	15.0		
	5720	144	15.05	15.0		
	5745	149	15.34	15.0		
UNII-3	5785	157	15.28	15.0		
	5825	165	15.18	15.0		
	5845	169	15.24	15.0		
UNII-4	5865	173	15.28	15.0		
	5885	177	15.36	15.0		
	5GHz WIFI (20MHz 802.	11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Target		
Band		Channel 36	Avg. Conducted	Target		
	[MHz]		Avg. Conducted Power [dBm]			
Band UNII-1	[MHz] 5180	36	Avg. Conducted Power [dBm] 15.12 15.29	15.0		
	[MHz] 5180 5200	36 40	Avg. Conducted Power [dBm]	15.0 15.0		
	[MHz] 5180 5200 5220 5240	36 40 44 48	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01	15.0 15.0 15.0 15.0		
UNII-1	5180 5200 5220	36 40 44	Avg. Conducted Power [dBm] 15.12 15.29 15.18	15.0 15.0 15.0		
	5180 5200 5220 5240 5260 5280	36 40 44 48 52	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04	15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1	5180 5200 5220 5240 5260	36 40 44 48 52 56	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41	15.0 15.0 15.0 15.0 15.0		
UNII-1	5180 5200 5220 5240 5260 5280 5300 5320	36 40 44 48 52 56 60 64	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04 15.40 15.42	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A	5180 5200 5220 5240 5260 5280 5300	36 40 44 48 52 56 60	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04 15.40	15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1	5180 5200 5220 5220 5240 5260 5280 5300 5320 5500	36 40 44 48 52 56 60 64 100	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.40 15.40 15.42 15.03	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5240 5260 5280 5300 5300 5500 5600	36 40 44 48 52 56 60 64 100 120	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.40 15.40 15.42 15.03 15.01 15.50	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5240 5260 5280 5300 5320 5500 5600	36 40 44 48 52 56 60 64 100	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04 15.40 15.42 15.03 15.01 15.50 15.01	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5220 5240 5260 5280 5320 5320 5500 5600 5620 5720	36 40 44 48 52 56 60 64 100 120 124 144 149	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40 15.40	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A	[MHz] 5180 5200 5220 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745	36 40 44 48 52 56 60 64 100 120 124 144 149	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.41 15.42 15.03 15.01 15.50 15.50 15.01 15.30	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5200 5240 5260 5280 5320 5300 5320 5600 5620 5720 5745 5785 5825	36 40 44 48 52 56 60 64 100 120 124 144 149 157 165	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.04 15.40 15.42 15.03 15.01 15.50 15.50 15.50 15.51 15.30	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		
UNII-1 UNII-2A UNII-2C	[MHz] 5180 5200 5220 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745	36 40 44 48 52 56 60 64 100 120 124 144 149	Avg. Conducted Power [dBm] 15.12 15.29 15.18 15.01 15.41 15.41 15.42 15.03 15.01 15.50 15.50 15.01 15.30	15.0 15.0 15.0 15.0 15.0 15.0 15.0 15.0		

Table 10-109

5 GHz WLAN Measured P_{Limit} Ave<u>rage RF Power for DSI = 0 (Body-</u>worn, Hotspot or Phablet) – Ant E

50	GHz WIFI (20	MHz 802.11	a SISO ANT E)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5180	36	16.58
UNII-1	5200	40	16.76
UNII-1	5220	44	16.88
	5240	48	16.68
	5260	52	16.80
UNII-2A	5280	56	16.81
UNII-ZA	5300	60	16.94
	5320	64	16.73
	5500	100	16.83
UNII-2C	5600	120	16.79
UNII-2C	5620	124	16.72
	5720	144	16.98
	5745	149	16.48
UNII-3	5785	157	16.55
	5825	165	16.63
	5845	169	16.68
UNII-4	5865	173	16.63
	5885	177	16.72

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5GHz WIFI (20MHz 802.11n SISO ANT E)				5G	Hz WIFI (20	MHz 802.11	ax SISO ANT E)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5180	36	16.20		5180	36	15.01
UNII-1	5200	40	16.32	UNII-1	5200	40	15.06
UINII-I	5220	44	16.31	UNII-1	5220	44	15.09
l	5240	48	16.01		5240	48	15.34
	5260	52	16.39		5260	52	15.49
UNII-2A	5280	56	16.04	UNII-2A	5280	56	15.32
UNII-ZA	5300	60	16.32	UNII-ZA	5300	60	15.14
	5320	64	16.16		5320	64	15.39
	5500	100	16.16		5500	100	15.02
UNII-2C	5600	120	16.39	UNII-2C	5600	120	15.08
UNII-2C	5620	124	16.29	UNII-2C	5620	124	15.49
	5720 144 16.15		5720	144	15.46		
	5745	149	16.28		5745	149	15.15
UNII-3	5785	157	16.40	UNII-3	5785	157	15.11
	5825	165	16.01		5825	165	15.01
	5845	169	16.04	UNII-4	5845	169	15.41
UNII-4	5865	173	16.25		5865	173	15.49
	5885	177	16.37		5885	177	15.30
5G	Hz WIFI (20	MHz 802.11	ac SISO ANT E)	5GHz WIFI (20MHz 802.11be SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
							45.47
	5180	36	16.18		5180	36	15.47
1,611.1	5180	36 40			5180 5200	36 40	
UNII-1	5200		16.18 16.36 16.36	UNII-1	5200		15.47 15.56 15.08
UNII-1	5200 5220	40 44	16.36 16.36	UNII-1	5200 5220	40 44	15.56 15.08
UNII-1	5200	40	16.36 16.36 16.06	UNII-1	5200 5220 5240	40	15.56
	5200 5220 5240	40 44 48	16.36 16.36		5200 5220	40 44 48	15.56 15.08 15.31
UNII-1	5200 5220 5240 5260 5280	40 44 48 52	16.36 16.36 16.06 16.24 16.50	UNII-1 UNII-2A	5200 5220 5240 5260 5280	40 44 48 52 56	15.56 15.08 15.31 15.48 15.24
	5200 5220 5240 5260 5280 5300	40 44 48 52 56	16.36 16.36 16.06 16.24 16.50 16.44		5200 5220 5240 5260 5280 5300	40 44 48 52	15.56 15.08 15.31 15.48 15.24 15.13
	5200 5220 5240 5260 5280 5300 5320	40 44 48 52 56 60 64	16.36 16.36 16.06 16.24 16.50 16.44 16.05		5200 5220 5240 5260 5280 5300 5320	40 44 48 52 56 60 64	15.56 15.08 15.31 15.48 15.24 15.13 15.39
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500	40 44 48 52 56 60	16.36 16.36 16.06 16.24 16.50 16.44 16.05	UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500	40 44 48 52 56 60	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01
	5200 5220 5240 5260 5280 5300 5320 5500 5600	40 44 48 52 56 60 64 100 120	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03		5200 5220 5240 5260 5280 5300 5320 5500 5600	40 44 48 52 56 60 64 100 120	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620	40 44 48 52 56 60 64 100	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29	UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620	40 44 48 52 56 60 64 100	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720	40 44 48 52 56 60 64 100 120 124	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29 16.06	UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720	40 44 48 52 56 60 64 100 120 124	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04 15.43
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745	40 44 48 52 56 60 64 100 120 124 144 149	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29 16.06 16.10	UNII-2A UNII-2C	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745	40 44 48 52 56 60 64 100 120 124 144 149	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04 15.43 15.47
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785	40 44 48 52 56 60 64 100 120 124 144 149	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29 16.06 16.10	UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785	40 44 48 52 56 60 64 100 120 124 144 149	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04 15.43 15.47 15.47
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785 5825	40 44 48 52 56 60 64 100 120 124 144 149 157 165	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29 16.06 16.10 16.44	UNII-2A UNII-2C	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785 5825	40 44 48 52 56 60 64 100 120 124 144 149 157 165	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04 15.43 15.47 15.14 15.14 15.04
UNII-2A	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785	40 44 48 52 56 60 64 100 120 124 144 149	16.36 16.36 16.06 16.24 16.50 16.44 16.05 16.03 16.29 16.06 16.10	UNII-2A UNII-2C	5200 5220 5240 5260 5280 5300 5320 5500 5600 5620 5720 5745 5785	40 44 48 52 56 60 64 100 120 124 144 149	15.56 15.08 15.31 15.48 15.24 15.13 15.39 15.01 15.04 15.43 15.47 15.47

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Table 10-110 5 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – MIMO

5GHz WIFI (20MHz 802.11a MIMO)								
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]					
	-		ANT H	ANT E	MIMO			
	5180	36	16.78	16.79	19.80			
UNII-1	5200	40	16.81	16.78	19.80			
UNII- I	5220	44	16.73	16.94	19.84			
	5240	48	16.74	16.98	19.87			
	5260	52	16.86	16.69	19.79			
UNII-2A	5280	56	16.89	16.76	19.83			
UNII-ZA	5300	60	16.62	16.85	19.75			
	5320	64	16.61	16.69	19.66			
	5500	100	16.60	16.96	19.79			
UNII-2C	5600	120	16.43	16.74	19.60			
UNII-2C	5620	124	16.38	16.71	19.56			
	5720	144	16.70	16.98	19.85			
	5745	149	16.01	16.51	19.28			
UNII-3	5785	157	16.09	16.62	19.37			
	5825	165	16.27	16.63	19.46			
	5845	169	16.43	16.61	19.53			
UNII-4	5865	173	16.30	16.71	19.52			
	5885	177	16.33	16.73	19.54			

Table 10-111 6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

6GHz	6GHz WIFI (80MHz 802.11ax SISO ANT H)			6GHz	WIFI (80MH	z 802.11be	SISO ANT H)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5985	7	9.67		5985	7	9.67
UNII-5	6305	71	9.35	UNII-5	6145	39	9.41
01411 0	6385	87	9.51	OINII-3	6305	71	9.33
UNII-6	6465	103	9.23		6385	87	9.12
UNII-0				UNII-6	6465	103	9.06
	6545	119	9.71		6545	119	9.27
UNII-7	6705	151	9.45		6705	151	9.19
OIVII 7	6785	167	9.59	UNII-7	6785	167	9.47
	6865	183	9.71		6865	183	9.21
UNII-8	6945	199	9.83	111111111111111111111111111111111111111	6945	199	9.36
UNII-8	7025	215	9.76	UNII-8	7025	215	9.32

Table 10-112 6 GHz WLAN Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant E

6GHz	6GHz WIFI (80MHz 802.11ax SISO ANT E)				WIFI (80MH	z 802.11be	SISO ANT E)
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
	5985	7	9.38		5985	7	9.30
UNII-5	6305	71	9.85	UNII-5	6145	39	9.16
011111	6385	87	9.71	OINII-3	6305	71	9.36
UNII-6	6465	103	9.95		6385	87	9.28
UNII-0				UNII-6	6465	103	9.25
	6545	119	9.29		6545	119	9.48
UNII-7	6705	151	9.91		6705	151	9.26
OIVII 7	6785	167	9.88	UNII-7	6785	167	9.29
	6865	183	9.44		6865	183	9.07
LIMILO	6945	199	9.86	111111111111111111111111111111111111111	6945	199	9.02
UNII-8	7025	215	9.54	UNII-8	7025	215	9.31

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Table 10-113 6 GHz WLAN Measured PLimit Average RF Power for DSI = 1 (Head) - MIMO

6GHz WIFI (80MHz 802.11ax MIMO)								
Band	Freq [MHz]	Channel	Avg. Conducted Powers [dBm]					
	[IVITIZ]		ANT1	ANT2	MIMO			
	5985	7	9.39	9.73	12.57			
UNII-5	6145	39	8.79	9.78	12.32			
UNII-3	6305	71	8.11	9.58	11.92			
	6385	87	8.45	9.48	12.01			
UNII-6	6465	103	8.87	9.64	12.28			
	6545	119	9.38	9.63	12.52			
UNII-7	6705	151	9.37	9.61	12.50			
UNII-/	6785	167	9.63	9.49	12.57			
	6865	183	9.45	8.88	12.18			
UNII-8	6945	199	9.48	9.13	12.32			
UNII-8	7025	215	9.52	9.32	12.43			

Table 10-114

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant H

6GHz	6GHz WIFI (80MHz 802.11ax SISO ANT H)			6GHz WIFI (80MHz 802.11ax SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band Freq. [MHz]		Channel	Avg. Conducted Power [dBm]
UNII-5	5985	7	10.53	UNII-6	6465	103	10.58
UNII-3	6305	71	10.90	UNII-8	6945	199	10.52
UNII-7	6705	151	10.80	OINII-0	7025	215	10.74

6GH	6GHz WIFI (80MHz 802.11be SISO ANT H)				6GHz WIFI (80MHz 802.11be SISO ANT H)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	
UNII-5	5985	7	10.53	UNII-6	6465	103	10.54	
UNII-3	6305	71	10.43	UNII-8	6945	199	10.48	
UNII-7	6705	151	10.10	UIVII-0	7025	215	10.70	

Table 10-115

6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – Ant E

6GHz	6GHz WIFI (80MHz 802.11ax SISO ANT E)				6GHz WIFI (80MHz 802.11ax SISO ANT E)			
Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	[MHz]		Avg. Conducted Power [dBm]	
UNII-5	5985	7	10.78	UNII-6	6465	103	10.92	
UNII-5	6305	71	11.10	UNII-8	6945	199	10.92	
UNII-7	6705	151	10.68	OINII-0	7025	215	10.99	

6G	6GHz WIFI (80MHz 802.11be SISO ANT E)				6GHz WIFI (80MHz 802.11be SISO ANT E)			
Band		Freq. [MHz]	Channel	Avg. Conducted Power [dBm]	Band	Freq. [MHz]	Channel	Avg. Conducted Power [dBm]
UNII-!	-	5985	7	10.20	UNII-6	6465	103	10.98
UNII-	ט	6305	71	11.01	UNII-8	6945	199	10.98
UNII-7	7	6705	151	11.04	UNII-0	7025	215	10.99

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Table 10-116 6 GHz WLAN Measured P_{max} Average RF Power for DSI = 0 (Body-worn or Phablet) – MIMO

	6GHz WIFI (80MHz 802.11ax MIMO)							
Band	Freq [MHz]	q [MHz] Channel Avg. Conducted Powers			[dBm]			
			ANT1	ANT2	MIMO			
UNII-5	5985	7	10.85	9.85	13.39			
UNII-5	6305	71	9.52	11.20	13.45			
UNII-7	6705	151	11.28	10.23	13.80			
		6GHz WIFI	(80MHz 802.11a)	k MIMO)				
	Rand Freg [MHz] Channel Avg. Conducted Powers [dBm]							
Band	Freq [MHz]	Channel	Avg. Co	onducted Powers	[dBm]			
Band	Freq [MHz]	Channel	Avg. Co	onducted Powers ANT2	[dBm] MIMO			
Band UNII-6	Freq [MHz] 6465	Channel 103	•		• •			
			ANT1	ANT2	MIMO			

Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02:

- Power measurements were performed for the transmission mode configuration with the highest maximum output power specified for production units.
- For transmission modes with the same maximum output power specification, powers were measured for the largest channel bandwidth, lowest order modulation and lowest data rate.
- For transmission modes with identical maximum specified output power, channel bandwidth, modulation and data rates, power measurements were required for all identical configurations.
- For each transmission mode configuration, powers were measured for the highest and lowest channels: and at the mid-band channel(s) when there were at least 3 channels supported. For configurations with multiple mid-band channels, due to an even number of channels, both channels were measured.

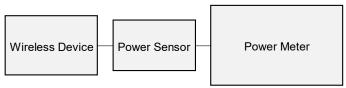


Figure 10-7 **Power Measurement Setup**

10.6 **Bluetooth Conducted Powers**

Table 10-117 Bluetooth LE Measured P_{Limit} Average RF Power for DSI = 1 (Head) – Ant H

Frequency	Data Rate	ta Rate Channel Bluetooth Mbps] No. Mode			nducted wer
[MHz]	[eqaivi]			[dBm]	[mW]
2402	1 Mbps	0	LE	12.45	17.567
2440	1 Mbps	19	LE	11.56	14.335
2480	1 Mbps	39	LE	11.12	12.936

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Table 10-118 Bluetooth LE Measured PLimit Average RF Power for DSI = 1 (Head) - Ant J

Frequency	Data Rate	Channel	Bluetooth	Power	
[MHz]	[Mbps]	ps] No. Mode		[dBm]	[mW]
2402	1 Mbps	0	LE	11.57	14.355
2440	1 Mbps	19	LE	11.32	13.536
2480	1 Mbps	39	LE	10.77	11.940

Table 10-119

Bluetooth LE Measured for P_{Max} Average RF Power for DSI = 0 (Body-worn or Phablet) and P_{Limit} Average RF Power for DSI = 1 (Head) - MIMO

Frequency [MHz]	Data Rate [Mbps]	Channel No.	Bluetoot h Mode	ANT F	l Peak ed Power			Dual Peak Conducted Power	
[]	[po]		II WOULD	[dBm]	[mW]	[dBm]	[mW]	[dBm]	[mW]
2402	1 Mbps	0	LE	12.35	17.179	11.92	15.560	15.15	32.739
2440	1 Mbps	19	LE	11.39	13.772	11.67	14.689	14.54	28.461
2480	1 Mbps	39	LE	10.98	12.531	11.22	13.243	14.11	25.775

Table 10-120

Bluetooth LE Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) – Ant H

Frequency	Data Rate	Channel	Bluetooth		nducted
[MHz]	[Mbps]	No.	Mode	[dBm]	wer [mW]
2402	1 Mbps	0	LE	18.39	69.024
2440	1 Mbps	19	LE	18.11	64.714
2480	1 Mbps	39	LE	17.65	58.210

Table 10-121

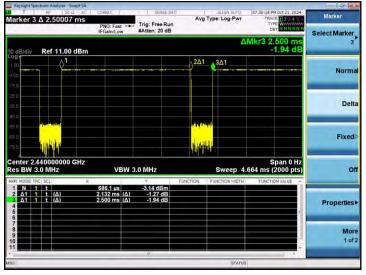
Bluetooth LE Measured P_{Max} Average RF Power for DSI = 0 (Body-worn, Hotspot or Phablet) - Ant J

Frequency	Data Rate	Channel	Power		
[MHz]	[Mbps]	No.	Mode	[dBm]	[mW]
2402	1 Mbps	0	LE	17.11	51.404
2440	1 Mbps	19	LE	18.02	63.387
2480	1 Mbps	39	LE	17.89	61.518

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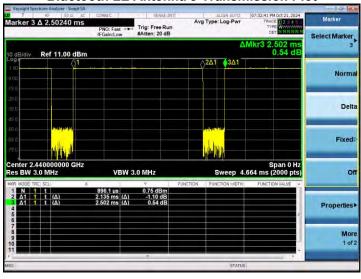
Figure 10-8 Bluetooth LE Antenna H Transmission Plot



Equation 10-1 Bluetooth LE Antenna H Duty Cycle Calculation

$$\textit{Duty Cycle} = \frac{\textit{Pulse Width}}{\textit{Period}} * 100\% = \frac{2.132 \textit{ms}}{2.500 \textit{ms}} * 100\% = 85.28\%$$

Figure 10-9 **Bluetooth LE Antenna J Transmission Plot**



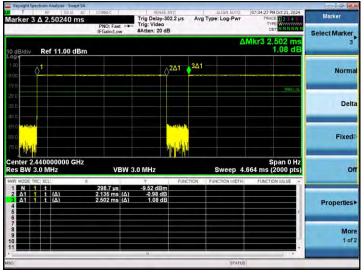
Equation 10-2 Bluetooth LE Antenna J Duty Cycle Calculation

$$\textit{Duty Cycle} = \frac{\textit{Pulse Width}}{\textit{Period}} * 100\% = \frac{2.135\textit{ms}}{2.502\textit{ms}} * 100\% = 85.33\%$$

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Figure 10-10
Bluetooth LE MIMO Transmission Plot



Equation 10-3
Bluetooth LE MIMO Duty Cycle Calculation

$$\textit{Duty Cycle} = \frac{\textit{Pulse Width}}{\textit{Period}} * 100\% = \frac{2.135\textit{ms}}{2.502\textit{ms}} * 100\% = 85.33\%$$

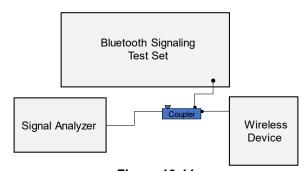


Figure 10-11 Power Measurement Setup

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11 SYSTEM VERIFICATION

11.1 Tissue Verification

Table 11-1
Measured Head Tissue Properties

	vieas		Head Hissue			Prop	roperties				
Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, ε	TARGET Conductivity, σ (S/m) 0.750	TARGET Dielectric Constant, s 55.000	% dev σ	% dev z		
on:	rissue rype	(C)	(MHz)	σ (S/m)	Constant, c	σ (S/m)	Constant, c				
			6	0.716 0.716	57.318 55.954	0.750 0.750	55.000 55.000	-4.53% -4.53%	4.21%		
			12	0.717	53.466	0.750 0.750	55.000	-4.40% -4.40%	-2.79%		
10/02/2024	30 Head	24.8	13 14	0.717	53.354	0.750	55.000	-4.40%	-2.99%		
10/02/2024	30 Head	24.0	30	0.717 0.719	52.625	0.750 0.750	55.000 55.000	-4.40% -4.13%	-3.10% -4.32%		
			60 65	0.722 0.723	52.049 51.921	0.753	54.325 54.213	-4.12% -3.98%	-4.19% -4.23%		
			150	0.751	50.187	0.760	52.300	-1.18%	-4.04%		
			680 695	0.882	41.325	0.888	42.305 42.227	+0.68% +0.22%	-2.32%		
			700	0.889	41.248	0.889	42.201 42.149	0.00%	-2.26%		
09/02/2024	750 Head	21.4	710	0.892	41.248 41.221 41.178	0.890 0.891	42.149 42.071	0.22% 0.56%	-2.20%		
09/02/2024	750 Head	21.4	725 750	0.903	41.178	0.894	41 942	1.01%	-2.12%		
			770 785	0.910 0.917	41.005	0.895	41.838 41.760	1.68% 2.34%	-1.99% -1.91%		
			800	0.917	40.961	0.896	41.760	2.90%	-1.91%		
			800 680	0.882	40.675	0.897	41.682 42.305	-0.68%	-3.85%		
			695 700	0.887	40.623 40.610	0.889	42.227 42.201	-0.22%	-3.80% -3.77%		
09/04/2024	750 Head	21.0	700 710	0.892	40.595	0.889	42.201 42.149	0.00%	-3.77% -3.69%		
09/04/2024	750 Head	21.0	725 750	0.898	40.556 40.464	0.891 0.894	42.071 41.942	0.79% 1.34%	-3.60% -3.52%		
			770	0.912	40.381	0.895	41.838	1.90%	-3.48%		
			785 800	0.917	40.333	0.896 0.897	41.760 41.682	2.34% 2.79%	-3.42% -3.33%		
			680 695	0.889	41.845 41.798	0.888	42.305 42.227	0.11%	-1.09% -1.02%		
			695 700	0.894	41.798 41.780	0.889	42.227 42.201	0.67%	-1.02% -1.00%		
			710	0.899	41.748 41.700	0.990	42.149	1.01%	-0.95%		
09/05/2024	750 Head	23.0	725 750	0.904	41.700 41.633	0.891	42.071 41.942	1.46%	-0.88% -0.74%		
			770	0.920	41.579	0.895	41.838	2.79%	-0.62%		
			785	0.925	41.537 41.486	0.896	41.760	3.24%	-0.53% -0.47%		
			800 680	0.869	40.810	0.888	41.682 42.305	3.79% -2.14%	-3.53%		
			695	0.874	40.761 40.711	0.889		-1.69%	-3.47% -3.41%		
09/06/2024	750 Head	21.0	710 725	0.885	40.662	0.890 0.891	42.149 42.071	-1.24% -0.67%	-3.35%		
09/06/2024	750 Head	21.0	750 770	0.892	40.600	0.894 0.895	41.942 41.838 41.760	-0.22% 0.45% 0.78%	-3.20%		
			770	0.903	40.519	0.895	41.838	0.45%	-2.97%		
			800 680	0.909	40.481	0.897	41.682 42.305	1.34%	-2.88% 0.45%		
			695	0.880	42.453	0.889	42.227	-1.01%	0.54%		
			710	0.885	42.453 42.407	0.890	42.149	-0.56%	0.61%		
09/08/2024	750 Head	22.6	725 750	0.891	42.366 42.302	0.891	42.071 41.942	0.00%	0.70%		
			770	0.907	42.245 42.202	0.895	41.838	1.34%	0.97%		
			785 800	0.912	42.202 42.155	0.896 0.897	41.760 41.682	1.79% 2.34%	1.06%		
			680	0.867	40.319	0.888	42.305	-2.36%	-4.69%		
					695 700	0.873	40.266 40.251	0.889	42.227 42.201	-1.80% -1.57%	-4.64% -4.62%
			710	0.879	40.222	0.890	42.149	-1.24%	-4.57%		
09/12/2024	750 Head	20.7	725 750	0.885	40.178 40.095	0.891 0.894	42.071 41.942	-0.67% 0.00%	-4.50% -4.40%		
			770 785	0.900 0.906	40.020	0.895 0.896	41.838 41.760	0.56%	-4.35% -4.28%		
			785 800	0.906	39.971 39.928	0.896	41.760 41.682	1.56%	-4.28% -4.21%		
			600	0.863	42.145 42.090	0.888	42.305	-2.82% -2.36%	-0.38% -0.32%		
			695 700	0.868	42.090	0.889	42.227	-2.35%	-0.32%		
			700 710	0.869	42.068 42.035	0.889	42.201 42.149	-2.25% -1.91%	-0.32% -0.27%		
09/20/2024	750 Head	21.0	725	0.878	41.985	0.891	42.071 41.942	-1.46% -0.89%	-0.20% -0.03%		
			750 770	0.892	41.892	0.895	41.838	-0.34%	0.13%		
				785 800	0.897	41.873 41.827	0.896 0.897	41.760 41.682	0.11%	0.27%	
			680 695	0.871	41.388	0.888	42.305	-1.91%	-2.17%		
				0.876	41.337	0.889	42.227	-1.46%	-2.11%		
			700 710	0.878	41.321 41.289	0.889	42.201 42.149	-1.24% -1.01%	-2.09%		
10/02/2024	750 Head	21.4	725 750	0.887	41.243 41.168	0.891 0.894	42.071 41.942	-0.45% 0.22%	-1.97% -1.85%		
			770	0.903	41.110	0.895	41.838	0.89%	-1.74%		
			785 800	0.908	41.065	0.896	41 760	1.34%	-1.66%		
			800 815	0.914 0.937	41.022 41.442	0.897	41.682 41.594	1.90% 4.34%	-1.58% -0.37%		
09/05/2024	835 Head	23.0	820	0.939	41.431	0.899	41.578	4.45%	-0.35%		
			835 850	0.945	41.398 41.359	0.900 0.916	41.500 41.500	5.00% 3.71%	-0.25% -0.34%		
			815	0.915	40.438	0.898 0.899	41.594 41.578	1.89%	-2.78%		
09/06/2024	835 Head	21.0	820 835	0.917	40.416	0.900	41.500	2.00%	-2.77%		
\vdash			850 815	0.928	40.300 42.105	0.916 0.898	41.500 41.594	1.31%	-2.89% 1.23%		
09/08/2024	835 Head	22.6	820	0.924	42.105 42.091	0.899	41.578	2.90%	1.23%		
09/08/2024	835 Head	22.6	835	0.926	42.091 42.051	0.900	41.500	3.00%	1.23%		
			850 815	0.937	42.005 40.170	0.916	41.500 41.594	2.29% 1.89%	1.22%		
09/09/2024	835 Head	20.7	820 835	0.917	40.162 40.138	0.899	41.578 41.500	2.00%	-3.41%		
			835 850	0.923	40.138 40.097	0.900 0.916	41.500 41.500	2.56% 1.42%	-3.28% -3.38%		
			815	0.927	41.062	0.898	41.594	3.23%	-1.28%		
09/10/2024	835 Head	21.5	820 835	0.928	41.046 40.998	0.899	41.578 41.500	3.23%	-1.28% -1.21%		
			850	0.940	40.956	0.916	41.500	2.62%	-1.31%		
			815 820	0.904 0.906	40.941 40.928	0.898	41.594 41.578	0.67%	-1.57% -1.56%		
09/12/2024	835 Head	19.4	835	0.912	40.883	0.000	41 500	1 2250	-1.49% -1.60%		
_			850 815	0.917	40.834 42.620	0.916	41.500 41.594	0.11%	2.47%		
09/13/2024	835 Head	21.5	820	0.912	42.607	0.899	41.578	1.45%	2.47%		
US 1312U24	San Means	21.0	835 850	0.917 0.923	42.568 42.528	0.900 0.916	41.500 41.500	1.89% 0.76%	2.57%		
			815	0.909	43.085	0.898	41.594	1.22%	3.58%		
09/19/2024	835 Head	20.3	820 835	0.911	43.071	0.899	41.578 41.500	1.33%	3.59%		
			850	0.917	43.035 42.992	0.916	41.500	0.76%	3.70% 3.60%		
			1610 1620	1.228	40.587	1.290 1.296	40.300 40.284	-4.81% -4.86%	0.71%		
10/14/2024	1640 Head	21.8	1640	1.233 1.244	40.570 40.542	1.307	40.253	-4.82%	0.72%		
			1650	1.249 1.229	40.526	1.313	40.237 40.300	-4.87% -4.73%	0.72%		
10/23/2024	1640 Head	22.0	1610 1620	1.229	40.000	1.290 1.296	40 284	-4 78%	-0.70%		
1urz3/2024	1640 Head	22.0	1640 1650	1.244	39.966	1.307	40.253 40.237	-4.82% -4.80%	-0.71% -0.71%		
				1.250	39.950	1.313	40.237	***.0U%	*U./176		

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Table 11-2 Measured Head Tissue Properties

			J 1166			lopei		_	
Calibrated for Tests Performed	Tissue Type	Tissue Temp During Calibration	Measured Frequency	Measured Conductivity,	Measured Dielectric	TARGET Conductivity.	TARGET Dielectric	% dev σ	% dev ε
on:	nace type	(°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε	70000	7000F E
			1700	1.323	41,494	1.343	40.145	-1, 40%	3.35%
			1705	1.326	41.487	1.345	40.141	-1.41%	3.35%
			1710	1.329	41.480	1.348	40.136	-1.41%	3.35%
09/03/2024	1750 Head	21.3	1720	1.335	41.462	1.354	40.126	-1. 40%	3.33%
03032024	Troc House	21.3	1745	1.351	41.417	1.368	40.087	-1.24%	3.32%
			1750	1.354	41.408	1.371	40.079	-1.24%	3.32%
			1770	1.366	41.377	1.383	40.047	-1. 23%	3.32%
			1790 1700	1.378	41.343 40.428	1.394	40.016 40.145	-1. 15% -2. 10%	3.32% 0.70%
			1700	1.314	40.428	1.343	40.145	-2.10% -2.08%	0.70%
			1710	1.319	40.410	1.348	40.136	-2.15%	0.08%
		-	1720	1.325	40.391	1.354	40.126	-2.14%	0.00%
09/03/2024	1750 Head	20.4	1745	1.341	40.340	1.368	40.087	-1.07%	0.63%
			1750	1.344	40.331	1.371	40.079	-1.07%	0.03%
			1770	1.356	40.302	1.383	40.047	-1.05%	0.04%
			1790	1.368	40.274	1.394	40.016	-1.87%	0.04%
			1700	1.313	39.619	1.343	40.145	-2.23%	-1.31%
			1705	1.316	39.612	1.345	40.141	-2.10%	-1.32%
			1710	1.319	39.603	1.348	40.136	-2.15%	-1.33%
09/05/2024	1750 Head	21.0	1720	1.325	39.583 39.530	1.354	40.126	-2.14% -1.07%	-1.35%
			1745 1750	1.341		1.368	40.087 40.079	-1.07% -1.07%	-1.30% -1.30%
			1770	1.356	39.520 39.486	1.371	40.047	-1.05%	-1.40%
			1790	1.367	39.459	1.394	40.016	-1.04%	-1.30%
			1700	1.334	38.989	1.343	40.145	-0.07%	-2.88%
			1705	1.336	38.981	1.345	40.141	-0.07%	-2.80%
			1710	1.339	38.975	1.348	40.136	-0.07%	-2.89%
09/18/2024	1750 Head	23.2	1720	1.345	38.961	1.354	40.126	-0.00%	-2.90%
US/10/2024	1750 Head	23.2	1745	1.357	38.924	1.368	40.087	-0.80%	-2.90%
			1750	1.380	38.915	1.371	40.079	-0.80%	-2.90%
			1770	1.370	38.867	1.383	40.047	-0.94%	-2.95%
			1790	1.381	38.822	1.394	40.016	-0.03%	-2.08%
1		I	1700	1.322	40.171	1.343	40.145	-1.50%	0.00%
1		1	1705 1710	1.325	40.164 40.157	1.345	40.141 40.136	-1. 40% -1. 48%	0.05%
1		1	1710 1720	1.328	40.157	1.348	40.136 40.126	-1. 48% -1. 40%	0.05%
09/19/2024	1750 Head	21.0	1745	1.352	40.142	1.388	40.126	-1. 17%	0.03%
			1750	1.355	40.091	1.371	40.007	-1, 17%	0.03%
			1770	1.387	40.060	1.383	40.047	-1, 10%	0.03%
			1790	1.378	40.025	1.394	40.016	-1. 15%	0.02%
			1700	1.290	39.617	1.343	40.145	-3.95%	-1.32%
			1705	1.292	39.610	1.345	40.141	-3.94%	-1.32%
			1710	1.295	39,600	1.348	40.136	-3. 93%	-1.34%
09/30/2024	1750 Head	21.8	1720	1.300	39.578	1.354	40.126	-3.99%	-1.37%
			1745	1.313	39,506	1.368	40.087	-4 .02%	-1.45%
			1750	1.316	39.492	1.371	40.079	-4 .01%	-1.40% -1.50%
			1770 1790	1.326	39.447 39.426	1.383 1.394	40.047 40.016	-4.12% -4.00%	-1.50% -1.47%
			1850	1.403	40.179	1.400	40.000	0.21%	0.45%
			1880	1,409	40.161	1,400	40.000	0.04%	0.40%
			1880	1.421	40.127	1.400	40.000	1.50%	0.32%
09/03/2024	1900 Head	20.4	1900	1.434	40.097	1,400	40.000	2.43%	0.24%
			1905	1.438	40.091	1.400	40.000	2.71%	0.23%
			1910	1.441	40.085	1.400	40.000	2.93%	0.21%
			1920	1.447	40.073	1.400	40.000	3.35%	0.18%
			1850	1.396	38.270	1.400	40.000	-0.20%	-4.32%
			1860	1.402	38.245	1.400	40.000	0.14%	4.30%
			1880	1.415	38.205	1.400	40.000	1.07%	-4.40%
09/03/2024	1900 Head	21.4	1900	1.429	38.186	1.400	40.000	2.07%	4.54%
			1905 1910	1.432	38.184	1.400	40.000	2.29%	-4.54% -4.54%
			1910	1.435	38.184 38.180	1.400	40.000 40.000	2.50%	4.55%
			1850	1.413	41.252	1.400	40.000	0.93%	3.13%
			1880	1.420	41.237	1,400	40.000	1.43%	3.09%
			1880	1.433	41.205	1.400	40.000	2.30%	3.01%
09/03/2024	1900 Head	21.3	1900	1.446	41.173	1.400	40.000	3.29%	2.03%
			1905	1.449	41.167	1.400	40.000	3.50%	2.92%
			1910	1.452	41.161	1.400	40.000	3.71%	2.90%
			1920	1.458	41,149	1.400	40.000	4.14%	2.87%
			1850	1.359	41.576	1.400	40.000	-2.03%	3.94%
			1880 1880	1.385	41.586	1.400	40.000	-2.50% -1.57%	3.92%
09/04/2024	1900 Head	21.9	1900	1.391	41.522	1.400	40.000	-0.04%	3.81%
03042024	Too Head	21.5	1900	1.391	41.522	1,400	40,000	-0.43%	3.80%
1		I	1910	1.397	41.514	1.400	40.000	-0.21%	3.79%
1		I	1920	1.403	41.505	1.400	40.000	0.21%	3.70%
			1850	1.400	39.356	1.400	40.000	0.00%	-1.01%
1		1	1880	1.406	39.343	1.400	40.000	0.43%	-1.04%
			1880	1.420	39.322	1.400	40.000	1. 43%	-1.00%
09/05/2024	1900 Head	21.0	1900	1.433	39.294	1.400	40.000	2.38%	-1.77%
1		1	1905	1.438	39.285	1.400	40.000	2.57%	-1.70%
1		1	1910 1920	1.439	39.276	1.400	40.000 40.000	2.79% 3.21%	-1.81% -1.85%
			1920	1.445	39.257 40.906	1.400	40.000	3.21% -1.57%	-1.80% 2.27%
1		I	1880	1.378	40.892	1.400	40.000	-1.07% -1.07%	2.27%
1		1	1880	1.398	40.862	1.400	40.000	-0.14%	2.10%
09/05/2024	1900 Head	20.0	1900	1.411	40.832	1.400	40.000	0.79%	2.08%
1		I	1905	1.415	40.824	1.400	40.000	1.07%	2.05%
1		I	1910	1.418	40.816	1.400	40.000	1. 20%	2.04%
			1920	1.424	40.802	1.400	40.000	1.71%	2.01%
1	l		1850	1.394	39.936	1.400	40.000	-0.43%	-0.10%
1		I	1880	1.400	39.925	1.400	40.000	0.00%	-0.10% 0.10%
09/11/2024	1900 Head	19.0	1880 1900	1.413	39.907 39.882	1.400	40.000 40.000	0.03% 1.70%	-0.23% -0.30%
U9/11/2024	1900 Mead	19.0	1900	1.425	39.882	1.400	40.000	7. 79% 2.00%	-0.30% -0.31%
1		I	1910	1.420	39.867	1,400	40.000	2.20%	-0.33%
1		I	1920	1.438	39.852	1.400	40.000	2.71%	-0.33%
			2300	1.718	39.770	1.670	39.500	2.87%	0.08%
1		I	2310	1.727	39.729	1.679	39,480	2.88%	0.63%
1		I	2320	1.738	39,689	1.687	39,480	3.02%	0.58%
1		1	2400	1.826	39.438	1.756	39.289	3. 99%	0.38%
1		I	2450	1.882	39.241	1.800	39.200	4.50%	0.10%
1		I	2480	1.915	39.152	1.833	39.162	4.47%	-0.03%
00.00	040000	00.5	2500	1.934	39.088	1.855	39.136	4.20%	-0.12%
09/02/2024	2450 Head	24.9	2510	1.943	39.046	1.886	39.123	4.13%	-0.20%
1		I	2535 2550	1.971	38.944	1.893	39.092	4.12%	-0.38% -0.48%
1		I	2560	1.990 2.003	38,856	1.909	39.073 39.080	4.24% 4.32%	-0.48% -0.52%
1		I	2800	2.003	38.715	1.920	39,000	4.32%	-0.75%
1		1	2650	2.102	38.520	2.018	38.945	4.10%	-1.00%
1		1	2680	2.140	38.397	2.051	38.907	4.34%	-1.31%
			2700	2.162	38.330	2.073	38.882	4.29%	-1.42%

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Table 11-3 Measured Head Tissue Properties

Name Process Process Process Conduction Condu	Calibrated for Tests Performed	Tissue Type	Tissue Temp During Calibration (°C)	Measured Frequency (MHz)	Measured Conductivity, σ (S/m)	Measured Dielectric	TARGET Conductivity, σ (S/m)	TARGET	% dev σ	% dev z
900-00004 2400 head 21.0 17.0 17.0 17.0 17.0 18.0 18.0 2 2.0 17.0 18.0 18.0 17.0 17.0 17.0 18.0 18.0 17.0 17.0 18.0 18.0 17.0 18.0 18.0 17.0 18.0 18.0 18.0 18.0 18.0 18.0 18.0 18	on:	made Type	(,c)	(MHz)	σ (S/m)	Constant, c				
90040004 240 News 21.0 1 200 1 100 1				2300 2310		37.988 37.968	1.670	39.480	2.63%	-3.83%
901000004 2400 News 24.6 24.6 24.6 24.6 24.6 24.6 24.6 24.6				2320	1.727	37.948	1.687	39.460	2.37%	-3.83%
00040004 24.0 Need 21.0 200 1280				2450	1.818	37.757	1.800	39.200	1.00%	-3.68%
1990 1990 1990 1990 1990 3990					1.840	37.715 37.680		39.162 39.136	0.38%	-3.69%
1990 1990 1990 1990 1990 3990	09/02/2024	2450 Head	21.0	2535	1.863	37.662 37.628	1.893	39.092	-0.48%	-3.75%
200 100 170 120				2550	1.897	37.608	1.909	39.073	-0.63%	-3.75%
200 2/201 17/201 201 38/027 2070 2080 2081 38/027 2070 2080 20				2600		37.523	1.964	39.009	-1.27%	-3.81%
200 1773 3500 1679 39.00 2277 2778				2690			2.051	38.907	-2.29%	-3.91%
96042294 2400 head 21.5 22.0 17.72 18.50.2 17.72 18.50.2 17.72 257 18.50.2 17.72 18.50.2 17.72 18.50.2 17.72 18.50.2 17.72 18.50.2 17.72 18.50.2 18.50				2700		37.355	2.073	38.882	-2.60% 2.67%	-3.93%
99040204 2400 Head 21.8 20.00 1.0				2310	1.724	38.628	1.679	39.480	2.68%	-2.16%
240 150				2400	1.736	38.598	1.687	39.289	2.90% 3.70%	-2.43%
Miles					1.011					
2005 1,995 1,7242 1,993 1,900 2,907 1,90				2500	1.931	37.962	1.855	39.136	4.10%	-3.00%
1996 1996 1279 1290 1390	05/04/2024	2400 Pisau	24.9	2535	1.969	37.842	1.893	39.092	4.01%	-3.20%
2700 2100 12707 22701 38.000 3.2815 4.2715				2560	1.984		1.920	39.060	3.85%	-3.35%
9804204 240 Head 21.5 2700 21.0 37.00 37.00 38.00 3.28 18 4.47				2600	2.040	37.587	1.964	39.009		
200 1.664 33.78 1.693 36.80 0.288 0.798 1.694 2200 1.664 33.78 1.697 36.80 0.288 0.798 1.798 2200 1.666 30.78 1.667 36.80 0.266 0.798 0.798 2200 1.666 30.78 1.667 36.80 36.80 0.266 0.798 2400 1.666 30.78 1.667 36.80 36.80 0.266 0.798 2400 1.666 30.78 1.667 36.80 1.667 36.80 0.267 2400 1.666 30.78 1.667 36.80 1.667 36.80 0.267 2500 1.661 30.28 1.663 36.80 1.667 36.80 0.278 2500 1.661 36.80 1.660 36.20 1.667 0.278 2500 1.661 36.80 1.660 36.20 1.667 0.278 2500 1.661 36.80 1.660 36.20 1.669 0.278 2500 1.661 36.80 1.660 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 1.600 36.80 2.268 0.678 2500 2.088 36.80 36.80 36.80 2.268 0.678 2500 2.088 36.80 36.80 36.80 36.80 2.268 2500 3.688 36.80 36.80 36.80 36.80 2.268 2500 3.688 36.80 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.80 2500 3.688 36.80 36.80 36.80 36.80 36.				2680	2.131	37.291	2.051	38.907	3.90%	-4.15%
9604/2024 2460 Head 21.5 2460 Head 21.5 2460 Head 21.6 2460 Head 21.				2300	1.664	39.793	1.670	39.500	-0.36%	0.74%
9904/2024 2400 Head 21.5 2400 Head 21.				2310 2320			1.679	39.480 39.460		0.72%
240 1,600 33,100 1,600 30,000 1,600 30,000 1,600 30,000 3				2400	1.776	39.425	1.756	39.289	1.14%	0.35%
2500 1.931 38.091 1.961 39.000 2.775 0.4475 2600 2.690 38.091 1.964 39.000 2.268 0.568 2600 2.690 38.091 1.964 39.000 2.268 0.568 2600 2.690 38.091 1.964 39.000 2.268 1.189 2600 2.190 38.081 2.268 38.048 2.268 1.189 2600 2.190 38.081 2.268 38.048 2.268 1.189 2600 2.190 38.082 2.268 38.048 2.268 1.189 2600 2.190 38.082 1.190 38.001 2.268 1.189 2600 2.190 38.082 1.190 38.001 2.268 1.189 2600 2.190 38.082 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.180 38.000 1.180 38.000 3.278 2.269 2600 1.180 38.000 3.190 3.279 2.269 2.288 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.268 3.190 3.268 2600 1.180 38.000 3.190 3.268 3.190 3.268 3.190 2600 3.190 3.190 3.190 3.268 3.190 3.268 3.190 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268				2480	1.868		1.833	39.162	1.91%	-0.06%
2500 1.931 38.091 1.961 39.000 2.775 0.4475 2600 2.690 38.091 1.964 39.000 2.268 0.568 2600 2.690 38.091 1.964 39.000 2.268 0.568 2600 2.690 38.091 1.964 39.000 2.268 1.189 2600 2.190 38.081 2.268 38.048 2.268 1.189 2600 2.190 38.081 2.268 38.048 2.268 1.189 2600 2.190 38.082 2.268 38.048 2.268 1.189 2600 2.190 38.082 1.190 38.001 2.268 1.189 2600 2.190 38.082 1.190 38.001 2.268 1.189 2600 2.190 38.082 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.042 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.190 38.000 1.190 38.000 0.198 2.268 2600 1.180 38.000 1.180 38.000 3.278 2.269 2600 1.180 38.000 3.190 3.279 2.269 2.288 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.279 2.268 2600 1.180 38.000 3.190 3.268 3.190 3.268 2600 1.180 38.000 3.190 3.268 3.190 3.268 3.190 2600 3.190 3.190 3.190 3.268 3.190 3.268 3.190 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268 2600 3.190 3.190 3.190 3.190 3.268 3.190 3.268	09/04/2024	2450 Head	21.5	2500 2510		39.050 39.013	1.855	39.136 39.123	1.98%	
2600 1,003 3,005 1,003 30,000 2,206 0,005				2535 2560	1.934		1.893	39.092	2.17%	-0.41%
99/08/2024 2400 Head 21.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2				2560	1.963		1.920	39.060	2.24%	-0.54%
99/08/2024 2400 Head 21.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 1.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2.6 2				2650	2.008	38.485	2.018	38.945	2.58%	-1.18%
200 1,670 33,462 1,670 35,000 0,000 2,678 2,678				2690	2.105		2.051	38.907	2.63%	-1.40%
2400 1770 38327 1796 3920 0791 2-679 3-679				2300	1.670		1.670	39.500	0.00%	-2.63%
9804/2024 2450 Nead 21.6 1 1897 30.00 11.00 30.00 11.0				2310	1.683	38.430	1.687	39.460	-0.24%	-2.61%
9804/2024 2450 Nead 21.6 1 1897 30.00 11.00 30.00 11.0				2400 2450	1.740	38.337 38.271	1.756	39.289 39.200	-0.91% -1.28%	-2.42% -2.37%
2500 1.544 38.151 1.695 39.00 2.295 2.49				2480	1.801	38.234	1.833	39.162	-1.75%	-2.37%
1,000 1,000 3,000 3,000 2,00	09/04/2024	2450 Head	21.4	2510	1.825	38.188	1.866	39.123	-2.20%	-2.39%
260 1,607 33,177 1,500 30,000 2,709 2,47				2535 2550	1.844	38.151 38.131	1.893	39.092 39.073	-2.59% -2.67%	-2.41%
2600 1502 37700 2051 38.007 4.378 2.578 2.578 2.278				2560	1.867	38.117	1 920	39.060	-2.76%	-2.41%
09/08/2024 2450 Nead 24.50 Nead 2				2650		37.975	2.018	38.945	-3.96%	-2.49%
09/08/2024 2450 Nead 24.50 Nead 2				2700			2.051	38.882	-4.68%	-2.54%
96/98/2044 2460 Head 24.6 24				2300	1.728	40.056 40.020			3.51%	1.41%
240 1919 70,000 1,233 70,000 1,253 70,000 6,000				2320	1.749		1.687	39.460 39.289	3.68%	1.33%
99(992024 240) Head 2 1 9 200 1 1942 30.041 1 1.860 30 103 4 4090 1 0.0789 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2450	1.887	39.533	1.800	39.200	4.83%	0.85%
2505 1 1900 1902 1902 1903 1903 1903 1903 1903 1903 1903 1903				2480 2500	1.942	39.341	1.855	39.136	4.69%	0.52%
2600 2,007 78 100 1,900 2,500 4,575 2,1575	09/08/2024	2450 Head	24.9	2510 2535		39.311 39.226	1.866	39.123 39.092	4.60%	0.34%
2000 2,705 33,900 1,964 30,000 4,678 0,0				2550	1.996	39.170	1.909	39.073	4.56%	0.25%
2000 2.143 38.000 2.051 39.007 4.495 0.595				2600	2.055	38.990	1.920	39.009	4.63%	-0.05%
1,000				2690	2.109 2.143	38.825 38.698	2.051	38.907	4.51% 4.49%	-0.54%
2310 1667 30109 1679 30.400 0.77%						38.622				
98/99/204 2400 Head 24.6 2400 Head 24.6 2400 Head 24.6 2600 Head 24.				2310		39.197	1.679	39.480	-0.71%	-0.72%
2460 Nead 2460 N				2320 2400	1.677		1.756	39.460 39.289	-0.59%	-0.76%
99/99/204 2460 Head 24.6 2500 1.6979 38.448 1.695 38.08 1.2978 1.4578 1.6978 1.				2450 2480	1.821	38.633	1.800	39.200	1.17%	-1.45%
2505 1918 38302 11991 3000 11371 2018 2019 2019 2019 2019 2019 2019 2019 2019	00/00/0004	2450 Hand	24.6	2500			1.855	39.136	1.29%	-1.83%
2600 1590 33,190 1590 2,290	Utirut/2024	2400 M880	24.0	2535	1.918	38.302	1.893	39.092	1.32%	-2.02%
99132024 2450 Head 21.6 20.00 37.00 37.00 3.00 3.00 1.00 3				2580	1.945		1.920	39.060	1.30%	-2.20%
99132024 2450 Head 21.6 20.00 37.00 37.00 3.00 3.00 1.00 3				2600	1.991	38.023	1.964	39.009	1.37%	-2.53% -2.92%
2450 Head 24.5 H				2680	2.082	37.716	2.051	38.907	1.51%	-3.06%
98/13/2024 2460 Head 24.5 2560 15760 2018 2018 2018 2018 2018 2018 2018 201				2300	1.678		1.670	39.500	0.48%	-1.51%
98/13/2024 2460 Head 24.5 2560 15760 2018 2018 2018 2018 2018 2018 2018 201				2310			1.679	39.480 39.460		-1.54% -1.58%
09192024 2460 Head 24.6 1883 36.08 1883 37.08 27.78 2.478 2.				2400	1.793	38.516	1.756	39.289	2.11%	-1.97%
2505 1 1011 37700 1 1893 30.00 3.00% 2.00%				2480		38.194	1.833	39 162	2 73%	-2 47%
2505 1 1011 37700 1 1893 30.00 3.00% 2.00%	09/13/2024	2450 Head	24.5	2500 2510	1.909 1.921	38.088	1.855 1.866	39.136 39.123	2.91%	-2.59% -2.65%
2600 1879 37260 14200 30,000 3,075 2,000				2535 2550		37.999 37.940	1.893	39.092 39.073	3.06%	-2.80% -2.90%
2000 2 118 37.00 2 2051 39.007 327% 3287%				2560	1.978	37.892	1.920	39.060	3.02%	-2.99%
2000 2 118 37.00 2 2051 39.007 327% 3287%				2600 2650	2.026	37.530	1.964 2.018	39.009 38.945	3.37%	-3.63%
200 1,653 33,469 1,670 39,500 0,791 2,591				2680 2700	2.118 2.141		2.051	38.907 38.882	3.27%	-3.87% -4.04%
2400 1.791 38.102 1.796 39.290 1.5978 2.998 3.99				2300		38.489	1.670	39.500	0.78%	-2.56%
2400 1.791 38.102 1.796 39.290 1.5978 2.998 3.99				2310 2320	1.694	38.462 38.431	1.679	39.480 39.460	1.13%	-2.61%
2400 1879 7787 1835 39.00 2.200 3.300 09162034 2450 Need 218 2500 1838 37.00 1838 37.00 1838 30.00 2.200 3.300 2500 1838 37.00 1839 30.00 2.200 3.300 2500 1838 37.00 1839 30.00 2.200 3.300 2500 1839 37.00 1839 30.00 2.200 3.300 2500 1839 37.00 1839 30.00 2.200 3.300 2500 2500 37.00 1839 30.00 3.00 3.00 3.00 3.00 3.00 3.00 3				2400 2450	1.791	38.132 37.955	1.756	39.289 39.200	1.99%	-2.94% -3.18%
2556 1519 37.647 1593 30.002 2.30% 37.05 2500 1593 37.509 1599 30.003 2.20% 33.000 2500 1593 37.509 1590 30.00 32.20% 33.000 2500 1593 37.509 1500 2.20% 33.000 2.20% 33.000 2500 2.20% 32.000 37.509 37.509 30.000 2.20% 33.000 2500 2.20% 37.509				2480	1.876	37.837	1.833	39.162	2.35%	-3.38%
2556 1519 37.647 1593 30.002 2.30% 37.05 2500 1593 37.509 1599 30.003 2.20% 33.000 2500 1593 37.509 1590 30.00 32.20% 33.000 2500 1593 37.509 1500 2.20% 33.000 2.20% 33.000 2500 2.20% 32.000 37.509 37.509 30.000 2.20% 33.000 2500 2.20% 37.509	09/18/2024	2450 Head	21.8	2510 2510			1.855	39.123	2.36%	-3.55%
2560 1.963 37.548 1.920 39.000 2.24% -3.87% 2600 2.007 37.385 1.994 39.009 2.19% -4.45% 2650 2.002 37.221 2.018 38.454 2.18% -4.45%				2535 2550	1.938 1.953	37.647 37.589	1.893 1.909	39.092 39.073	2.38%	
2000 2.002 37.221 2.018 38.45 2.187 4.479 2000 2.002 37.221 2.018 38.45 2.187 4.4376 2000 2.005 37.106 2.051 38.907 2.159, 4.6796 2700 2.117 37.030 2.073 38.802 2.216, 4.6796				2580 2600	2 007	37.548 37.385	1.920	39.060	2.24%	-3.87%
2000 2.117 37.030 2.073 38.907 2.15% -4.63% 2700 2.117 37.030 2.073 38.882 2.12% -4.76%				2650		37.221	2.018	38.945	2.18%	-4.43%
				2690 2700	2.095	37.106 37.030	2.051	38.907 38.882	2.15%	-4.63% -4.76%

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Table 11-4 Measured Head Tissue Properties

90000000	Calibrated for Tests Performed on:	Tissue Type	Tissue Temp During Calibration (°C)	Measured	Measured Conductivity, σ (S/m)	Measured Dielectric Constant, s	TARGET Conductivity,	TARGET	% dev a	% dev £
9070004	on:	Trade Type	(°C)				σ (8/m)			
900-2004 1801-200 1801-2				2310	1.721	38.888	1.679	39.480	2.50%	-1.50%
932094				2400	1.790	38.753	1.756	39.289	1.94%	-1.36%
9000004				2480	1.853	38.615	1.833	39.162	1.09%	-1.40%
90000000	09/23/2024	2450 Head	20.7	2510	1.877	38.566	1.866	39.123	0.59%	-1.42%
9020264				2550	1.910	38.497	1.909	39.073	0.05%	-1.47%
90000000000000000000000000000000000000				2600	1.961	38.417	1.964	39.009	-0.66%	-1.52%
9022044 AND PART				2680	2.019	38.287	2.051	38.907	-1.56%	-1.59%
902224				2300	1.713	38.903	1.670	39.500	2.57%	-1.51%
90000000				2320	1.728	38.872	1.687	39.460	2.43%	-1.49%
1002004				2450	1.829	38.669	1.800	39.200	1.61%	-1.35%
1902094	09/23/2024	2450 Head	20.7	2500	1.869	38.583 38.566	1.855	39.136	0.75%	-1.41%
900/0004				2535		38.522 38.497	1.893	39.092	0.21%	-1.46%
9000004				2580	1.918	38.481	1.920	39.060	-0.10%	-1.48%
9000004					1.995	38.335 38.287	2.018	38.945	-1,14%	-1.57%
1902084 240 hale 241 250 270					2.035	38.257 38.407	2.073	38.882	-1.83%	-1.61%
19020244					1.738	38.393 38.378	1.679	39.480		-2.75%
19020244 240 had					1.849	38.271 38.190	1.758	39.289	2.96%	-2.59%
9000004 260 had 260				2480			1.833	39.162		
1907/2004 240 1864 1865 1866 186	10/02/2024	2450 Head	20.9	2510	1.899	38.078 38.029	1.866	39.123	1.77%	2.67%
900-2004 900-1964 900-1964 900-1966 900-19				2550	1.933	38.003 37.086	1.909	39.073	1.26%	-2.74%
900-2004 200 1-00				2600		37.908	1.964	39.009	0.51%	-2.82%
1902/2014 2400 Plead 2400 Pl				2680	2.039		2.051	38.907	-0.59%	-2.94%
9002024				2300			1.670	39.500	2.28%	-2.05%
1902/2014 240 140 340 340 340 320 3				2320		38.633	1.687	39.460	2.55%	-2.10%
9002024 2400 Head					1.867	38.152	1.800	39.200	3.72%	-2.67%
1907/2004 2409 1864 2415 2416 24	400000004	0450 114	24.0	2500	1.923	37.954	1.855	39.136	3.67%	-3.02%
99070704 2400 Head 24.5 25.00 1.00	10022024	2400 Plant	24.0	2535	1.961	37.842	1.893	39.092	3.59%	
90002044 AMD Head 200				2560	1.986	37.747	1.920	39.060	3.44%	
9907004 246 250 25					2.084	37.425	2.018	38.945	3.27%	-3.90%
1901/2014 2400 Head 2415 2420 1700 17				2700		37.234	2.073	38.882	3.18%	-4.24%
990-2024 - Monthage Part				2310	1.708	38.815	1.679	39.480	1.73%	-1.77%
9907004 340 Need 24.5 290 100 2010 100 100 201				2400	1.810	38.419	1.756	39.289	3.08%	-2.21%
990-2004 300 Plead 245 2500 1,000 2,000 1,00				2480	1.901	38.242 38.110	1.833	39.162	3.71%	-2.69%
990-2024 300 Plead 215 1990 199	10/07/2024	2450 Head	24.5	2510	1.937	37.993	1.866	39.123	3.80%	-2.89%
990-2044 300 Nead 215 200				2550	1.984	37.836	1.909	39.073	3.93%	-3.17%
999-2044 909-20				2600	2.042	37.626	1.964	39.009	3.97%	-3.55%
1914-2024 2489 Peach 21.5 22.00 1.6				2680	2.102	37.425 37.298	2.051	38.907	4.14%	-4.14%
999-2044 300 Plead 21.5 22.0 3.00 Plead 22.5 3.00 Plea				2300		40.258	1.670	39.500	0.06%	1.92%
900-2024 240 Pead 215 2400 1700 2401 1000 2000				2320			1.687	39.460	0.00%	1.95%
990-2004 300 Head 21.5 \$\begin{array}{c c c c c c c c c c c c c c c c c c c				2450	1.788	40.041	1.800	39.200	-0.67%	2.15%
9802004 300 Pead 300 Pea	4004400004	0450 114	04.5	2500	1.829	39.959	1.855	39.136	-1.40%	2.10%
99002044 3000 Head 215 2000	10142024	2400 Plast	21.5	2535	1.859	39.899	1.893	39.092	-1.80%	2.06%
9800 1,80				2560	1.880	39.858	1.920	39.060	-2.08%	2.04%
9902004 300 Heat 10				2650	1.967	39.717	2.018	38.945	-3.02%	1.98%
9992044 300 Head 215 260 260 270 2				2700	1.997	39.630	2.073	38.882	-3.67%	1.92%
0902024 300 Head 13.5 10.0				3350	2.667	39.508	2.759	38.100	-3.33%	3.70%
98020244 3000 Head 18.6 19.0 19.0 19.0 19.0 19.0 19.0 19.0 19.0				3500	2.807	39.256	2.913	37.929	-3.64%	3.50%
9992044 300 Head 16 3900 7500				3560	2.869	39.188	2.974	37.860	-3.53%	3.51%
9892044 300 Pead 215 Sept. 19.00 Sept. 2.00 Sept. 2.00 Sept. 2.20 Sept. 2.00 Sept. 2.20	09/02/2024	3600 Head	19.6	3650	2.952	39.026	3.066	37.757	-3.72%	3.36%
999-2044 300 Head 215 1992				3700	2.997	38.922	3.117	37 700	-3.85%	3.24%
4402 3413 8273 3581 3724 3296 2794 3796 2778 4402 1403 3404 3405 3596 3794 3796 2798 4402 1403 3404 3405 3596 3796 3406 3406 4204 3406 3404 3405 3296 3406 3406 3406 3206 2452 3221 3221 2798 38.00 3406 3478 3206 2771 3404 2704 37920 4798 3796 3206 2771 3404 2794 2796 3796 4798 3796 3207 2791 3406 3207 3207 3207 4798 3796 3208 2418 3207 3207 3207 3207 4798 3796 3209 2418 3207 3207 3207 3207 4798 3208 3209 2418 3207 3207 3207 3207 4798 3208 3209 2418 3207 3207 3207 3207 3207 3209 3201 3208 3207 3207 3207 3207 3209 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3200 3201 3208 3207 3207 3207 3207 3208 3208 3200 3201 3208 3207 3207 3207 3208 3208 3200 3201 3208 3208 3207 3207 3208 3208 3200 3201 3208 3208 3207 3208 3208 3200 3201 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3208 3200 3208 3208 3208 3208 3208 3208 3208 3208 3200 3208 32				3900	3.207	38.643	3.323	37.471	-3.49%	3.13%
9992044 3000 Head 215 2000				4100	3.413		3.528	37.243	-3.26%	2.77%
989-2044 3000 Head 21.5 3600 2.701 3.000				3300		39.485	2.708	38.157	-3.91%	3.48%
9893024 300 Head 215 2500				3450	2.743		2.861	37.986	-4.12%	3.25%
0909204 300 Head 213 300 240 300 307 307 309 377 44 427 127 327 309 377 377 428 427 327 327 327 327 327 327 327 327 327 3				3550	2.836	39.048	2.984	37.871	-4.32%	3.11%
1999 2014 1999 2015 1999 2016 199	000000004	2020 114		3600	2.888	38.973	3.015	37.814	-4.21%	3.07%
9992024 300 Pead 215 3 300 Pead 3 300 A 289 A 28	03032024	3000 Plead	20.3	3690	2.971	38.818	3.107	37.711	-4.38%	2.94%
00002044 2000 Feed 215 2000				3750	3.043	38.710	3.169	37.643	-3.98%	2.83%
1400 1,600 3,000 3,570 37,168 3,000 3,40				3930	3.184	38.448	3.353	37.437		2.70%
9090/2044 3000 Head 21 5 3000 2 400 3 400 4 400 154 5 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5				4150	3.398	38.187	3.579	37.186	-3.60%	
0909/204 3000 Nead 215 3000 2 200 3 200 3 200 2 200 3				3350	2.647	38.687	2.759	38.100	-4.06%	1.54%
9500 2.64				3500	2.739	38.502 38.424	2.913	37.929	-4.36%	1.31%
999204 300 Pead 215 300 2.07 3.07 3.00 377 4.03 110s 110s 110s 110s 110s 110s 110s 11				3560	2.842	38.313	2.974	37.860	-4.44%	1.20%
2000 2000	09/09/2024	3600 Head	21.5	3650	2.883 2.927	38.261 38.172	3.066	37.757	-4.53%	1.10%
1000/2014 103				3700	2.976	38.077	3.117	37.700	-4.52%	1.00%
4492 3 300 12 2445 3 209 17 243 3 291 6 575 6 557 6 55				3900	3.179	37.769	3.323	37.471	-4.33%	0.80%
1,000,000 1,000				4100	3.390	37.440	3.528	37.243	-3.91%	0.53%
1,000,004				3300	2.623	38.582	2,708	38.157	-3.14%	1.11%
10092044 300 Heat 103 2 2 2 2 2 2 1 2 2 2				3450	2.759	38.301	2.861	37.986	-3.57%	0.83%
1909/204 200 Peacl 19 3 200 2 2011 3 2003 3 2015 3 77 EM 3.79 K 657 K 65				3550	2.857	38.112	2.984	37.871	-3.61%	0.64%
2800 2388 37886 3.007 37.711 3.28% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.48% 2.28%				3600	2.901	38.028	3.015	37.814	-3.78%	0.57%
3750 3,047 32.747 3.199 27.643 3.896 0.2896	10/09/2024	3600 Head	19.3	3690	2.988	37.946 37.886	3.107	37.711	-3.83%	0.46%
3990 3.231 37.457 3.353 37.437 3.64% 0.05% 4100 3.416 37.187 3.528 37.243 3.17% -0.15%				3750	3.047		3,169	37.643	-3.85%	0.28%
4100 3.416 37.187 3.528 37.243 -3.17% -0.15%				3930	3.231	37.522 37.457	3.353	37.437	-3.64%	0.05%
				4100 4150		37.187 37.078	3.528 3.579		-3.17%	-0.15% -0.29%

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Table 11-5
Measured Head Tissue Properties

IVIC	-	i eu i					pei		_
Calibrated for Tests Performed	Tissue Type	Tissue Temp During Calibration	Measured Frequency (MHz)	Measured Conductivity,	Measured Dielectric Constant, s	TARGET Conductivity, σ (S/m)	TARGET Dielectric Constant, s	% dev σ	% dev s
onc		(c)	(MHz) 5180	σ (S/m) 4.489	Constant, g 35,422	σ (8/m) 4.635	Constant, s 36,009	-3.15%	-1.63%
	l	l	5190 5200	4.500	35.406	4.645 4.655	35.998 35.986	3.12%	-1.64%
			5210	4.509 4.521	35.387	4.686	35.975	-3.11%	-1.68% -1.68%
			5220 5240	4.535 4.559	35.349	4.676	35.963 35.940	3.02%	-1.71% -1.76%
			5250 5260	4.569 4.579	35.294	4.706 4.717	35.929 35.917	2.91%	-1.77%
			5270	4.590	35.260	4.727 4.737	35,906	2 90%	-1.80%
			5280 5290	4.602 4.612	35.239 35.223	4.748	35.894 35.883	2.85%	-1.82% -1.84%
			5300 5310	4.622	35.208 35.194	4.758 4.768	35.871 35.880	2.88%	-1.85% -1.86%
			5320	4.845	35.173	4.778	35.849	2.78%	-1.89%
			5500 5510	4.839 4.851	34.844	4.963	35.643 35.632	2.50%	-2.24%
			5520 5530	4.864 4.874	34.792 34.782	4.983 4.994	35.620 35.609	2.39%	2.32%
			5540	4.887 4.899	34.773	5.004	35.597	-2.34%	-2.31%
			5550 5560	4.911	34.759 34.740	5.014 5.024	35.588 35.574	2.29% 2.25%	2.32%
			5580 5600	4.933 4.958	34.697 34.663	5.045 5.065	35.551 35.529	2.22%	-2.40% -2.44%
09/02/2024	5200-5800 Head	21.1	5610 5620	4.972	34.646	5.076	35.518 35.506	2.05%	-2.46%
			5640	5.005	34.606	5.108	35.483	-1.98%	2.47%
			5680 5670	5.027 5.040	34.580 34.539	5.127 5.137	35.460 35.449	-1.95% -1.89%	-2.54% -2.57%
			5680 5690 5700	5.064 5.069	34.517 34.502	5.147 5.158	35.437 35.426	-1.81% -1.73%	-2.60% -2.61%
			5700 5710	5.083	34.495	5.168 5.178	35.414 35.403	-1.73% -1.64% -1.68%	-2.60% -2.58%
			5720 5745	5.099 5.123	34.483	5.188 5.214	35.391 35.383	-1.72% -1.75%	-2.57%
			5750	5.130	34.413	5.219	35.357	-1.71%	2.67%
			5755 5765	5.138 5.150	34.403 34.380	5.224 5.234	35.351 35.340	-1.68% -1.60%	-2.68%
			5775 5785	5.162 5.169	34.362 34.343	5.245 5.255	35.329 35.317	-1.58% -1.64%	-2.74%
			5796	5.179	34.335	5.265 5.275	35.305 35.294	-1.63% -1.61%	2.75%
			5825	5.214	34.298	5.298	35.271	-1.55%	-2.76%
	l	1	5835 5845	5.223 5.235	34.271 34.249	5.305 5.315	35.230 35.210	-1.55% -1.51%	-2.72% -2.73%
	l	l	5850 5855	5.241 5.247	34.234 34.222	5.320 5.325	35.200 35.197	-1.48% -1.46%	-2.74% -2.77%
	l	l	5875 5885	5.267 5.276	34.190 34.179	5.347 5.357	35.183 35.177	-1.50% -1.51%	2.82% 2.84%
			5905 5180	5.302	34.134	5.379 4.635	35.163 36.009	-1.43% -3.06%	-2.93%
	l	1	5180 5190	4.493 4.504	35.275 35.255	4.645	35.998	-3.04%	-2.08%
	l	l	5200 5210	4.514 4.527	35.237 35.216	4.665 4.686	35.986 35.975	-3.03% -2.98%	-2.08% -2.11%
	l	1	5220 5240	4.538 4.560	35.195 35.156	4.676 4.696	35.963 35.940	2.95%	-2.14% -2.18%
	l	1	5250 5260	4.572	35.148	4.706 4.717	35.929 35.917	2.85%	-2.17%
			5270	4.504	35.108	4.727 4.737	35.906	2.81%	-2.22%
			5280 5290	4.605 4.616	35.098 35.071	4.737 4.748 4.758	35.894 35.883	2.79%	-2.25%
			5300 5310	4.627 4.636	35.055	4.758 4.768	35.871 35.880	2.75%	-2.27%
			5320	4.646	35.008	4.778	35.849	2.78%	-2.35%
			5500 5510	4.841 4.851 4.862	34.716 34.697 34.681	4.963 4.973	35.643 35.632	2.48% 2.45%	-2.60% -2.62% -2.64%
			5520 5530	4.862 4.874	34.681 34.662	4.983 4.994	35.620 35.609	-2.43% -2.40%	-2.64% -2.66%
		5850 Head 21.0	5540	4.887	34.638	5.004 5.014	35.597	2.34%	2.69%
			5580 5580	4.908	34.607	5.024	35.574 35.551	2.31%	2.72%
			5600	4.954	34.529	5.065	35.529	2.19%	-2.81%
09/09/2024	5200-5800 Head		5610 5620	4.963 4.976	34.505	5.076	35.518 35.506	2.23%	-2.85% -2.91%
			5640 5660	5.002	34.428 34.412	5.108 5.127	35.483 35.460	-1.87%	-2.97%
			5670 5680	5.041	34.395 34.377	5.137 5.147	35.449 35.437	-1.87% -1.90%	-2.97%
			5890 5700	5.058	34.350	5.158	35.426	-1.98%	-3.04%
			5710	5.062	34.321 34.295	5.168 5.178	35.414 35.403	-1.93% -1.85%	-3.09% -3.13%
			5720 5745	5.008	34.275 34.260	5.188 5.214	35.391 35.363	-1.73% -1.63%	-3.15% -3.12%
			5750 5755	5.133 5.138	34.253 34.247	5.219 5.224	35.357 35.351	-1.65% -1.65%	-3.12%
			5765	5.148	34.220	5.234	35.340 35.329	-1.68%	-3.17%
			5775 5785	5.168	34.187	5.255	35.317	-1.72% -1.66%	-3.20%
			5796 5806	5.184 5.195	34.179 34.164	5.265 5.275	35.305 35.294	-1.54% -1.52%	-3.19% -3.20%
			5825 5835	5.218 5.233	34.137 34.130	5.298 5.305	35.271 35.230	-1.47% -1.38%	-3.22% -3.12%
			5845 5850	5.244 5.248	34.130 34.115 34.101	5.315 5.320	35.230 35.210 35.200	-1.38% -1.34% -1.35%	-3.12% -3.11% -3.12%
			5855 5875	5.250	34.088	5.325	35.197	-1.41%	-3.16%
			5885	5.283	34.034	5.357	35.177	-1.38%	-3.25%
			5905 5150	5.304 4.704	34.008	5.379 4.608	35.163 36.050	-1.39% 2.08%	-3.29% -0.05%
	l	l	5160 5170	4.714 4.725	36.008 35.008	4.618 4.629	36.040 36.030	2.08%	-0.09%
	l	1	5180 5190	4.737 4.749	35.988 95.079	4.635 4.645	36.009 35.998	2.20%	-0.08%
	l	1	5200	4.758	35.973 35.961	4.655	35.986	2.17%	-0.10%
	l	1	5210 5220	4.784 4.777	35.938 35.922	4.686 4.676	35.975 35.983	2.10%	-0.10% -0.11%
	l	1	5240 5250	4.807 4.818	35.862 35.830	4.696 4.708	35.940 35.929	2.38%	-0.22% -0.28%
	l	1	5260 5270	4.830 4.843	35.811 35.784	4.717 4.727	35.917 35.906	2.40%	-0.30%
	l	1	5280 5290	4.854	35.749	4.737 4.748	35.894 36.899	2.47%	-0.40%
	l	1	5300	4.881 4.889	35.726 35.721	4.758	35.883 35.871	2.38%	-0.44%
	l	1	5310 5320	4.884 4.899	35.725 35.712	4.768 4.778	35.860 35.849	2.43% 2.53%	-0.38% -0.38%
	l	1	5500 5510	5.115 5.129	35.320 35.306	4.963 4.973	35.643 35.632	3.08%	-0.91%
	l	1	5620 5630	5.139 5.147	35.290 35.281	4.983 4.994	35.620 35.609	3 13%	-0.93%
	l	1	5540	5.160	35.281	5.004	35.597	3.12%	-0.92%
	l	1	5550 5560	5.180 5.192	35.242 35.207	5.014	35.586 35.574	3.31% 3.34% 3.17%	-0.97% -1.03%
	l	1	5580 5600	5.205 5.228	35.173 35.149	5.045 5.065	35.529		-1.08% -1.07%
	l	1	5610	5.237	35.136	5.065 5.076 5.088	35.518	3.22% 3.17% 3.13%	-1.08% -1.05%
10/28/2024	5200-5800 Head	20.2	5620 5640 5660	5.245 5.267	35.109	5.108	35.506 35.483 35.460	3.15%	-1.05%
		1	5670	5.288 5.302	35.040 35.009	5.127 5.137	35.449	3.14% 3.21%	-1.18% -1.24%
	l	1	5680 5690	5.317 5.331	34.978 34.954	5.147 5.158	35.437 35.426	3.30%	-1.30% -1.33%
	l	1	5700	5.342 5.362	34.940	5.168 5.178	35.414	3.37%	-1.34% -1.33%
	l	1	5710 5720 5745	5.381 5.388	34.915 34.817	5.188 5.214	35.403 35.391 35.983	3.38%	-1.34%
	l	1	5750	5.388 5.394	34.817 34.803	5.219	35.363 35.357	3.30%	-1.54% -1.57%
	l	1	5755 5765	5.405 5.427	34.788 34.751	5.224	35.351 35.340		-1.50%
	l	1	5765 5775 5785	5.439 5.444	34.751 34.710 34.685	5.245 5.255	35.329 35.317	3.69% 3.70% 3.60%	-1.75% -1.79%
	l	1	5796 5800	5.449	34.685 34.682	5.265 5.270	35.305 35.300	3.49%	-1.76% -1.75%
	l	1	5800	5.453	34.682	5.270	35.300	3.47%	-1.75%
	l	1	5805 5825	5.460 5.484	34.689 34.593	5.275 5.298	35.294 35.271	3.51% 3.55%	-1.77% -1.92%
	l	1	5835 5845	5.498 5.521	34.588 34.589	5.305 5.315	35.230 35.210 35.200	3.64%	-1.82% -1.76%
	l	1	5850 5855	5.537	34.575	5.320	35.200 35.107	4.08%	-1.78%
	l	1	5865 5865	5.571	34.551 34.486	5.325 5.338 5.338	35.197 35.190 35.190	4.26% 4.40% 4.40%	-1.84% -2.00% -2.00%
	l	1	5865 5865	5.571 5.571	34.486 34.488	5.338	35.190	4.40%	-2.00%
	l	1	5865 5875 5885	5.571 5.575	34.488 34.439 34.437	5.398 5.347 5.357	35.190 35.183 35.177	4.40% 4.26% 4.07%	-2.00% -2.11%
	l	1	5885 5905	5.575 5.508	34.437 34.422	5.357 5.379	35.177 35.163	4.07%	-2.10% -2.11%

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Table 11-6
Measured Head Tissue Properties

Calibrated for		vieasure	зи пе	~~	Sue Pi	open			
ests Performed	Tissue Type	Tissue Temp During Calibration	Measured Frequency	Measured Conductivity,	Measured Dielectric	TARGET Conductivity,	TARGET Dielectric	% dev σ	% de
on:		(°C)	(MHz)	σ (S/m)	Constant, ε	σ (S/m)	Constant, ε		
			5935 5970	5.235 5.249	35.504 35.520	5.411 5.448	35.143	-3.25%	1.03
			5970		35.520	5.464	35.120	-3.65%	1.14
				5.253			35.110	-3.86%	0.95
			6000	5.259	35.249	5.480	35.100	-4.03%	0.42
			6025	5.324	35.203	5.510	35.070	-3.38%	0.38
			6065	5.362	35.215	5.557	35.022	-3.51%	0.55
			6075	5.353	35.173	5.569	35.010	-3.88%	0.47
			6085	5.364	35.148	5.580	34.998	-3.87%	0.43
			6185	5.501	35.029	5.698	34.878	-3.46%	0.43
			6275	5.631	34.850	5.805	34.770	-3.00%	0.23
			6285	5.627	34.866	5.816	34.758	-3.25%	0.31
			6305	5.655	34.832	5.840	34.734	-3.17%	0.28
			6345	5.716	34.761	5.887	34.686	-2.90%	0.22
			6475	5.876	34.542	6.041	34.530	-2.73%	0.03
09/09/2024	6000 Head	22.8	6485	5.903	34.547	6.052	34.518	-2.46%	0.08
09/09/2024	6000 nead	22.0	6500	5.905	34.539	6.052	34.500	-2.72%	0.00
			6505	5.897	34.538	6.076	34.494	-2.72%	0.11
				5.936	34.351		34.446		
			6545			6.122		-3.04%	-0.28
			6665	6.058	34.197	6.265	34.302	-3.30%	-0.3
			6675	6.086	34.159	6.273	34.290	-2.98%	-0.38
			6685	6.111	34.128	6.285	34.278	-2.77%	-0.44
			6715	6.146	34.186	6.319	34.242	-2.74%	-0.16
			6785	6.212	33.928	6.400	34.158	-2.94%	-0.67
			6825	6.280	33.952	6.447	34.110	-2.59%	-0.46
			6985	6.407	33.770	6.633	33.918	-3.41%	-0.44
	l	1	6995	6.400	33.704	6.644	33.906	-3.67%	-0.60
	l	1	7000	6.405	33.660	6.650	33.900	-3.68%	-0.71
	l	1	7005	6.413	33.616	6.656	33.894	-3.65%	-0.71
	l	1	7005 7025	6.413	33.616	6.680	33.894	-3.65%	-0.82
			5935	5.192	35.362	5.411	35.143	-4.05%	0.62
			5970	5.226	35.288	5.448	35.120	-4.07%	0.48
			5985	5.248	35.243	5.464	35.110	-3.95%	0.38
			6000	5.268	35.206	5.480	35.100	-3.87%	0.30
			6025	5.300	35.171	5.510	35.070	-3.81%	0.29
			6065	5.340	35.102	5.557	35.022	-3.90%	0.23
			6075	5.353	35.081	5.569	35.010	-3.88%	0.20
			6085	5.369	35.055	5.580	34.998	-3.78%	0.16
			6185	5.485	34.907	5.698	34.878	-3.74%	0.08
			6275	5.607	34.722	5.805	34.770	-3.41%	-0.14
			6285	5.615	34.707	5.816	34.758	-3.46%	-0.15
			6305	5.642	34.682	5.840	34.734	-3.39%	-0.15
			6345	5.700	34.636	5.887	34.686	-3.18%	-0.14
			6475	5.839	34.430	6.041	34.530	-3.34%	-0.29
			6485	5.847	34.400	6.052	34.518	-3.39%	-0.23
09/23/2024	6000 Head	20.0	6500	5.864	34.349	6.052	34.500		
09/23/2024	ьооо неаа	20.0						-3.39%	-0.44
			6505	5.871	34.335	6.076	34.494	-3.37%	-0.46
			6545	5.936	34.280	6.122	34.446	-3.04%	-0.48
			6665	6.074	34.055	6.265	34.302	-3.05%	-0.72
			6675	6.082	34.050	6.273	34.290	-3.04%	-0.70
			6685	6.085	34.042	6.285	34.278	-3.18%	-0.69
			6715	6.102	33.987	6.319	34.242	-3.43%	-0.74
			6785	6.200	33.890	6.400	34.158	-3.13%	-0.78
			6825	6.227	33.794	6.447	34.110	-3.41%	-0.93
			6985	6.437	33.510	6.633	33.918	-2.95%	-1.20
			6995	6.441	33.508	6.644	33.906	-3.06%	-1.17
			7000	6.443	33.506	6.650	33.900	-3.11%	-1.16
			7005	6.447	33.505	6.656	33.894	-3.14%	-1.15
			7025	6.472	33.457	6.680	33.870	-3.11%	-1.22
			7500	7.091	32.650	7.240	33.300	-2.06%	-1.95
	l	1	7980	7.644	31.859	7.816	32.724	-2.20%	-2.64
		1	5935	5 442	36.377	5.411	35.143	0.57%	3.51
	l		5970	5.466	36.357	5.448	35.120	0.33%	3.52
	l	1	5985	5.485	36.282	5.464	35.110	0.38%	3.34
	l	1	6000	5.518	36.202	5.480	35.100	0.69%	3.14
	l		6025	5.586	36.146	5.510	35.070	1.38%	3.07
	l		6065	5.000	30,140	5.510	35.070	1.13%	3.26
	l		6075	5.623	36.163	5.569	35.022	0.97%	3.23
	1	1						0.97%	3.23
	l	1	6085	5.629	36.099	5.580	34.998		
	1	1	6185	5.761	35.925	5.698	34.878	1.11%	3.00
	l	1	6275	5.887	35.773	5.805	34.770	1.41%	2.88
	l		6285	5.897	35.752	5.816	34.758	1.39%	2.86
	l	1	6305	5.909	35.711	5.840	34.734	1.18%	2.81
	1		6345	5.974	35.604	5.887	34.686	1.48%	2.65
	1	1	6475	6.143	35.375	6.041	34.530	1.69%	2.45
			6485	6.154	35.379	6.052	34.518	1.69% 1.58%	2.49
				6.166	35.376		34.500	1.58%	2.54
10/09/2024	6000 Head	20.9	6500			6.070		4.5507	
10/09/2024	6000 Head	20.9	6505	6.170	35.365	6.076	34.494	1.55%	
10/09/2024	6000 Head	20.9	6505 6545	6.170 6.208	35.365 35.203	6.076 6.122	34.494 34.446	1.55%	2.20
10/09/2024	6000 Head	20.9	6505 6545 6665	6.170 6.208 6.358	35.365 35.203 35.009	6.076 6.122 6.265	34.494 34.446 34.302	1.55% 1.40% 1.48%	2.20
10/09/2024	6000 Head	20.9	6505 6545 6665 6675	6.170 6.208 6.358 6.371	35.365 35.203 35.009 34.969	6.076 6.122 6.265 6.273	34.494 34.446 34.302 34.290	1.55% 1.40% 1.48% 1.56%	2.20 2.06 1.98
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685	6.170 6.208 6.358 6.371 6.386	35.365 35.203 35.009 34.969 34.960	6.076 6.122 6.265 6.273 6.285	34.494 34.446 34.302 34.290 34.278	1.55% 1.40% 1.48% 1.56% 1.61%	2.20 2.06 1.98 1.99
10/09/2024	6000 Head	20.9	6505 6545 6665 6675	6.170 6.208 6.358 6.371	35.365 35.203 35.009 34.969	6.076 6.122 6.265 6.273 6.285 6.319	34.494 34.446 34.302 34.290	1.55% 1.40% 1.48% 1.56%	2.20 2.06 1.98 1.99
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715	6.170 6.208 6.358 6.371 6.386	35.365 35.203 35.009 34.969 34.960	6.076 6.122 6.265 6.273 6.285 6.319 6.400	34.494 34.446 34.302 34.290 34.278 34.242	1.55% 1.40% 1.48% 1.56% 1.61%	2.20 2.06 1.98 1.99 2.18
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785	6.170 6.208 6.358 6.371 6.386 6.431	35.365 35.203 35.009 34.969 34.960 34.988	6.076 6.122 6.265 6.273 6.285	34.494 34.446 34.302 34.290 34.278 34.242 34.158	1.55% 1.40% 1.48% 1.56% 1.61% 1.77%	2.20 2.06 1.98 1.99 2.18 1.74
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563	35.365 35.203 35.009 34.969 34.960 34.988 34.754	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34%	2.20 2.06 1.98 1.99 2.18 1.74 1.95
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985	6.170 6.208 6.358 6.371 6.386 6.431 6.486	35.365 35.203 35.009 34.969 34.960 34.988 34.754 34.775	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34%	2.20 2.06 1.98 1.99 2.18 1.74 1.95
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563 6.715 6.715	35.365 35.203 35.009 34.969 34.960 34.988 34.754 34.775 34.548 34.482	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633 6.644	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918 33.906	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34% 1.80%	2.20 2.06 1.98 1.99 2.18 1.74 1.95 1.86
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985 6995	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563 6.715 6.715	35,365 35,203 35,009 34,969 34,960 34,988 34,754 34,775 34,548 34,482 34,447	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633 6.644 6.650	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918 33.906 33.900	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34% 1.80% 1.24% 1.07% 1.02%	2.20 2.06 1.98 1.99 2.18 1.74 1.95 1.86 1.70
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985 6995 7000	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563 6.715 6.715 6.718	35.365 35.203 35.009 34.969 34.960 34.988 34.754 34.775 34.548 34.482 34.447 34.419	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633 6.644 6.650 6.656	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918 33.906 33.900 33.894	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34% 1.80% 1.07% 1.02% 0.99%	2.20 2.06 1.98 1.99 2.18 1.74 1.95 1.86 1.70 1.61
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985 6995 7000 7005	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563 6.715 6.715 6.715 6.722	35.365 35.203 35.009 34.969 34.960 34.988 34.754 34.775 34.548 34.482 34.447 34.419 34.325	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633 6.644 6.650 6.650 6.650 6.680	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918 33.906 33.900 33.894 33.870	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34% 1.80% 1.24% 1.07% 1.02% 0.99% 1.08%	2.20 2.06 1.98 1.99 2.18 1.74 1.95 1.86 1.70 1.61 1.55
10/09/2024	6000 Head	20.9	6505 6545 6665 6675 6685 6715 6785 6825 6985 6995 7000	6.170 6.208 6.358 6.371 6.386 6.431 6.486 6.563 6.715 6.715 6.718	35.365 35.203 35.009 34.969 34.960 34.988 34.754 34.775 34.548 34.482 34.447 34.419	6.076 6.122 6.265 6.273 6.285 6.319 6.400 6.447 6.633 6.644 6.650 6.656	34.494 34.446 34.302 34.290 34.278 34.242 34.158 34.110 33.918 33.906 33.900 33.894	1.55% 1.40% 1.48% 1.56% 1.61% 1.77% 1.34% 1.80% 1.07% 1.02% 0.99%	2.53 2.20 2.06 1.98 1.99 2.18 1.74 1.95 1.86 1.70 1.61 1.55 1.34 0.37

The above measured tissue parameters were used in the DASY software. The DASY software was used to perform interpolation to determine the dielectric parameters at the SAR test device frequencies (per KDB Publication 865664 D01v01r04 and IEEE 1528-2013 6.6.1.2. The tissue parameters listed in the SAR test plots may slightly differ from the table above due to significant digit rounding in the software.

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11.2 SAR Test System Verification

Prior to SAR assessment, the system is verified to $\pm 10\%$ of the SAR measurement on the reference dipole at the time of calibration by the calibration facility. Full system validation status and result summary can be found in SAR System Validation Appendix.

Table 11-7
System Verification Results – Head

SAR System	Tissue Frequency (MHz)	Tissue Type	Date	Amb. Temp. (C)	Liquid Temp. (C)	Input Power (W)	Source SN	Probe SN	DAE	Measured SAR 1g (W/kg)	1W Target SAR 1g (W/kg)	1W Normalized SAR 1g (W/kg)	Deviation 1g (%)	Measured SAR 10g (W/kg)	1W Target SAR 10g (W/kg)	1W Normalized SAR 10g (W/kg)	Deviation 10g (%)	Measured 4cm2 APD (W/m2)	1W Target 4cm2 APD (W/m2)	Normalized 4cm2 APD	Deviation 4cm2 APD (%)
AM14	13	HEAD	10/02/2024	21.5	23.0	1.00	1004	7308	534	0.54	0.58	0.54	-6.23%	0.33	0.36	0.33	-6.18%	N/A	N/A	N/A	N/A
AM4 AM4	750 750	HEAD HEAD	09/02/2024	21.1 23.8	20.9 21.6	0.20	1057 1057	7357 7357	1582 1582	1.76 1.81	8.51 8.51	8.80 9.05	3.41% 6.35%	1.17 1.19	5.58 5.58	5.85 5.95	4.84% 6.63%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
J	750	HEAD	09/05/2024	25.0	23.0	0.20	1161	7406	1677	1.72	8.44	8.60	1.90%	1.13	5.51	5.65	2.54%	N/A	N/A	N/A	N/A
AM4	750	HEAD	09/06/2024	23.5	21.2	0.20	1057	7357	1582	1.79	8.51	8.95	5.17%	1.18	5.58	5.90	5.73%	N/A	N/A	N/A	N/A
AM4	750 750	HEAD	09/08/2024	23.9 22.0	22.6 21.0	0.20	1161 1057	7406 7357	1677 1582	1.60 1.80	8.44 8.51	8.00 9.00	-5.21% 5.76%	1.05 1.19	5.51 5.58	5.25 5.95	-4.72% 6.63%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AM4	750	HEAD	09/20/2024	22.3	21.0	0.20	1097	7357	1582	1.66	8.27	8.30	0.36%	1.11	5.38	5.55	3.16%	N/A	N/A N/A	N/A	N/A
J	750	HEAD	10/02/2024	23.5	23.2	0.20	1054	7406	1677	1.64	8.52	8.20	-3.76%	1.07	5.60	5.35	-4.46%	N/A	N/A	N/A	N/A
AM4	835 835	HEAD HEAD	09/05/2024	25.0 23.5	23.0	0.20	4d133 4d040	7406 7357	1677 1582	2.03	9.94 9.79	10.15 10.10	2.11% 3.17%	1.32 1.33	6.49 6.38	6.60 6.65	1.69% 4.23%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
J	835	HEAD	09/08/2024	23.9	22.6	0.20	4d132	7406	1677	1.97	9.84	9.85	0.10%	1.28	6.40	6.40	0.00%	N/A	N/A	N/A	N/A
AM4	835	HEAD	09/09/2024	21.6	21.0	0.20	4d040	7357	1582	2.03	9.79	10.15	3.68%	1.33	6.38	6.65	4.23%	N/A	N/A	N/A	N/A
K3	835 835	HEAD HEAD	09/10/2024	23.0 19.4	21.5 19.8	0.20	4d119 4d119	7491 7491	1532 1532	2.06	9.96 9.96	10.30 10.40	3.41% 4.42%	1.35 1.37	6.48 6.48	6.75 6.85	4.17% 5.71%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K4	835	HEAD	09/13/2024	22.6	21.5	0.20	4d119	7565	1466	2.04	9.96	10.20	2.41%	1.33	6.48	6.65	2.62%	N/A	N/A	N/A	N/A
K3	835	HEAD	09/19/2024	22.1	20.0	0.20	4d119	7491	1532	2.10	9.96	10.50	5.42%	1.39	6.48	6.95	7.25%	N/A	N/A	N/A	N/A
G	1640 1640	HEAD	10/14/2024	23.3 23.1	22.0	0.10 22.00	321 321	7570 7570	1530 1530	3.48 3.54	34.50 34.50	34.80 35.40	0.87% 2.61%	1.91 1.95	18.50 18.50	19.10 19.50	3.24% 5.41%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
C	1750	HEAD	09/03/2024	22.4	22.0	0.10	1150	7659	1407	3.70	36.90	37.00	0.27%	1.98	19.40	19.80	2.06%	N/A	N/A	N/A	N/A
0	1750	HEAD	09/03/2024	21.7	20.4	0.10	1148	3914	728	3.79	37.20	37.90	1.88%	2.03	19.40	20.30	4.64%	N/A	N/A	N/A	N/A
O E	1750 1750	HEAD HEAD	09/05/2024 09/18/2024	22.0 24.3	21.0	0.10	1150 1148	3914 7409	728 1334	3.78 3.87	36.90 37.20	37.80 38.70	2.44% 4.03%	2.03 2.05	19.40 19.40	20.30 20.50	4.64% 5.67%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K4	1750	HEAD	09/19/2024	23.0	21.0	0.10	1051	7565	1466	3.49	37.00	34.90	-5.68%	1.86	19.50	18.60	-4.62%	N/A	N/A	N/A	N/A
Р	1750	HEAD	09/30/2024	21.7	22.0	0.10	1150	7718	665	3.74	36.90	37.40	1.36%	2.03	19.40	20.30	4.64%	N/A	N/A	N/A	N/A
E C	1900 1900	HEAD HEAD	09/03/2024 09/03/2024	23.6 22.4	22.0 22.0	0.10	5d148 5d148	7409 7659	1334 1407	4.30 4.11	40.10 40.10	43.00 41.10	7.23% 2.49%	2.23 2.13	21.00 21.00	22.30 21.30	6.19% 1.43%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
S	1900	HEAD	09/04/2024	22.5	21.9	21.90	5d148	7803	1583	4.05	40.10	40.50	1.00%	2.12	21.00	21.20	0.95%	N/A	N/A	N/A	N/A
0	1900	HEAD	09/05/2024	22.0	21.0	0.10	5d148	3914	728	4.30	40.10	43.00	7.23%	2.22	21.00	22.20	5.71%	N/A	N/A	N/A	N/A
P K4	1900 1900	HEAD	09/05/2024 09/11/2024	21.0 19.2	20.0 19.0	0.10	5d148 5d141	7718 7565	665 1466	4.21 3.87	40.10 40.30	42.10 38.70	4.99% -3.97%	2.22	21.00 21.00	22.20 20.00	5.71% -4.76%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AM8	2300	HEAD	09/02/2024	22.1	23.8	0.10	1064	7427	467	5.06	49.30	50.60	2.64%	2.40	23.80	24.00	0.84%	N/A	N/A	N/A	N/A
AM8	2300	HEAD	09/04/2024	23.3	23.2	0.10	1064	7427	467	4.86	49.30	48.60	-1.42%	2.29	23.80	22.90	-3.78%	N/A	N/A	N/A	N/A
AM8 AM13	2300 2300	HEAD	09/08/2024 09/09/2024	20.5 21.1	23.0	0.10	1038 1038	7427 7682	467 1683	4.96 4.83	49.10 49.10	49.60 48.30	1.02% -1.63%	2.32	23.70 23.70	23.20 22.50	-2.11% -5.06%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AM13	2300	HEAD	10/07/2024	22.1	22.9	0.10	1064	7682	1683	4.78	49.30	47.80	-3.04%	2.24	23.80	22.40	-5.88%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	09/02/2024	22.1	23.8	0.10	750	7427	467	5.26	52.60	52.60	0.00%	2.39	24.50	23.90	-2.45%	N/A	N/A	N/A	N/A
K2 AM13	2450 2450	HEAD	09/02/2024	21.4 23.0	21.0	0.10 0.10	945 855	7637 7682	1652 1683	5.57 5.10	53.40 52.40	55.70 51.00	4.31% -2.67%	2.59 2.30	25.10 24.60	25.90 23.00	3.19% -6.50%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K2	2450	HEAD	09/04/2024	20.9	21.4	0.10	945	7637	1652	5.14	53.40	51.40	-3.75%	2.41	25.10	24.10	-3.98%	N/A	N/A	N/A	N/A
AM8	2450	HEAD	09/18/2024	22.0	21.8	0.10	750	7427	467	5.26	52.60	52.60	0.00%	2.37	24.50	23.70	-3.27%	N/A	N/A	N/A	N/A
K2 K3	2450 2450	HEAD HEAD	09/23/2024 10/14/2024	20.8	20.7	0.10	945 882	7637 7558	1652 1364	5.14 5.51	53.40 53.00	51.40 55.10	-3.75% 3.96%	2.39 2.59	25.10 24.90	23.90 25.90	-4.78% 4.02%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AM8	2600	HEAD	09/02/2024	22.1	23.8	0.10	1042	7427	467	5.54	55.80	55.40	-0.72%	2.42	24.90	24.20	-2.81%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/02/2024	21.4	21.0	0.10	1009	7637	1652	5.77	56.60	57.70	1.94%	2.60	25.50	26.00	1.96%	N/A	N/A	N/A	N/A
AM13 AM 13	2600 2600	HEAD HEAD	09/04/2024	23.0	23.0	0.10	1069 1042	7682 7682	1683 1683	5.63 5.41	56.20 55.80	56.30 54.10	0.18% -3.05%	2.45 2.37	25.50 24.90	24.50 23.70	-3.92% -4.82%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
AM8	2600	HEAD	09/18/2024	22.0	21.8	0.10	1042	7427	467	5.29	55.80	52.90	-5.20%	2.30	24.90	23.00	-7.63%	N/A	N/A	N/A	N/A
K2	2600	HEAD	09/23/2024	20.8	20.7	0.10	1009	7637	1652	5.30	56.60	53.00	-6.36%	2.38	25.50	23.80	-6.67%	N/A	N/A	N/A	N/A
AM16 K2	2600 2600	HEAD HEAD	10/02/2024	21.0	23.0	0.10	1042 1009	7552 7640	1676 1645	5.59 5.62	55.80 56.60	55.90 56.20	0.18% -0.71%	2.43	24.90 25.50	24.30 25.30	-2.41% -0.78%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K4	3500	HEAD	09/02/2024	20.4	20.1	0.10	1068	7565	1466	6.37	65.30	63.70	-2.45%	2.42	24.70	24.20	-2.02%	N/A	N/A	N/A	N/A
H	3500	HEAD	09/03/2024	23.5 22.1	21.7	0.10	1059 1097	7488	1415 1415	6.39 6.43	64.90 65.40	63.90 64.30	-1.54% -1.68%	2.47	24.70 24.70	24.70 24.70	0.00%	N/A	N/A	N/A	N/A
H	3500 3500	HEAD HEAD	09/09/2024 10/09/2024	21.3	20.6	0.10	1097	7488 7660	1678	6.43	65.40	63.90	-1.68% -2.29%	2.47	24.70	24.70	-0.81%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K4	3700	HEAD	09/02/2024	20.4	20.1	0.10	1029	7565	1466	6.59	67.30	65.90	-2.08%	2.43	24.50	24.30	-0.82%	N/A	N/A	N/A	N/A
Н	3700	HEAD	09/03/2024	23.5	21.7	0.10	1018	7488	1415	6.59	65.10	65.90	1.23%	2.46	23.90	24.60	2.93%	N/A	N/A	N/A	N/A
H	3700 3700	HEAD HEAD	09/09/2024 10/09/2024	22.1 21.3	20.6	0.10	1067 1018	7488 7660	1415 1678	6.67 6.52	66.90 65.10	66.70 65.20	-0.30% 0.15%	2.48 2.43	24.30 23.90	24.80 24.30	2.06% 1.67%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
H	3900	HEAD	09/03/2024	23.5	21.7	0.10	1056	7488	1415	6.88	68.20	68.80	0.88%	2.44	23.80	24.40	2.52%	N/A	N/A	N/A	N/A
Н	3900	HEAD	09/09/2024	22.1	20.6	0.10	1056	7488	1415	6.92	68.20	69.20	1.47%	2.44	23.80	24.40	2.52%	N/A	N/A	N/A	N/A
K6	5250 5250	HEAD HEAD	09/02/2024	21.5 21.2	21.1	0.05	1237 1237	7402 7402	1502 1502	3.90 3.82	80.10 80.10	78.00 76.40	-2.62% -4.62%	1.11	22.90 22.90	22.20 22.00	-3.06% -3.93%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K6	5250	HEAD	10/28/2024	20.4	20.2	0.05	1237	7402	1502	3.86	80.10	77.20	-4.62%	1.10	22.90	22.00	-3.93%	N/A	N/A	N/A	N/A
K6	5600	HEAD	09/02/2024	21.5	21.1	0.05	1237	7402	1502	3.85	82.00	77.00	-6.10%	1.08	23.30	21.60	-7.30%	N/A	N/A	N/A	N/A
K6	5600 5600	HEAD HEAD	09/09/2024 10/28/2024	21.2	21.0	0.05	1237 1237	7402 7402	1502 1502	3.82 4.08	82.00 82.00	76.40 81.60	-6.83% -0.49%	1.09 1.15	23.30 23.30	21.80 23.00	-6.44% -1.29%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K6	5750	HEAD	09/02/2024	21.5	21.1	0.05	1237	7402	1502	3.96	79.20	79.20	0.00%	1.13	22.50	22.60	0.44%	N/A	N/A	N/A	N/A
К6	5750	HEAD	09/09/2024	21.2	21.0	0.05	1237	7402	1502	3.98	79.20	79.60	0.51%	1.14	22.50	22.80	1.33%	N/A	N/A	N/A	N/A
K6	5750 5850	HEAD HEAD	10/28/2024	20.4	20.2	0.05	1237 1237	7402 7402	1502 1502	4.02 3.81	79.20 80.40	80.40 76.20	1.52% -5.22%	1.15 1.08	22.50 22.80	23.00 21.60	2.22% -5.26%	N/A N/A	N/A N/A	N/A N/A	N/A N/A
K6	5850	HEAD	09/02/2024	21.2	21.0	0.05	1237	7402	1502	4.02	80.40	80.40	0.00%	1.15	22.80	23.00	0.88%	N/A	N/A	N/A	N/A
K6	5850	HEAD	10/28/2024	20.4	20.2	0.05	1237	7402	1502	3.98	80.40	79.60	-1.00%	1.14	22.80	22.80	0.00%	N/A	N/A	N/A	N/A
R AM7	6500	HEAD	09/09/2024	22.2	22.8	0.03	1111	7527 7421	1272	7.55 7.17	291.00 293.00	302.00 286.80	3.78% -2.12%	1.38 1.32	53.50 54.10	55.20 52.80	3.18% -2.40%	33.50 32.20	1300.00 1320.00	1340.00 1288.00	3.08%
AM/	6500 8000	HEAD HEAD	10/09/2024	20.4	20.0	0.03	1019 1007	7527	604 1272	6.59	293.00	263.60	-2.12%	1.32	54.10 45.30	52.80 44.80	-2.40% -1.10%	32.20 27.10	1110.00	1288.00	-2.42% -2.34%
		•											•			•					

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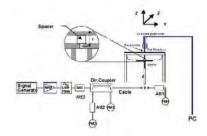


Figure 11-1 **System Verification Setup Diagram**



Figure 11-2 **System Verification Setup Photo**

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Power Density Test System Verification

The system was verified to be within ±0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

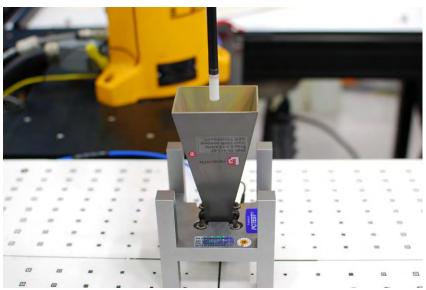


Figure 11-3 **System Verification Setup Photo**

Table 11-8 10 GHz Verifications

	System	Frequency	Date	Source	Probe	Prad	Normal psPD (W	/m² over 4 cm²)	Deviation (dB)	Total psPD (W	//m² over 4 cm²)	Deviation (dB)
		(GHz)		S/N	S/N	(mW)	Measured	Target	2011411011 (42)	Measured	Target	2011411011 (42)
	Q	10	09/15/2024	1002	9622	93.3	59.90	54.60	0.40	60.30	54.90	0.41
	R	10	10/14/2024	1002	9421	93.3	47.20	54.60	-0.63	47.40	54.90	-0.64

Note: A 10 mm distance spacing was used from the reference horn antenna aperture to the probe element.

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12 SAR DATA SUMMARY

12.1 GSM 850 Standalone SAR

Table 12-1

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 850	GSM	A	1267M	1:8.3	0.01	836.60	190	33.5	32.90	Right Cheek	0	0.107	1.148	0.123	0.478	0.299		33.4		
Head	GSM 850	GSM	A	1267M	1:8.3	0.01	836.60	190	33.5	32.90	Right Tilt	0	0.052	1.148	0.060	0.232	0.145		36.5	33.4	30.2
Head	GSM 850	GSM	A	1267M	1:8.3	-0.05	836.60	190	33.5	32.90	Left Cheek	0	0.099	1.148	0.114	0.442	0.276		33.7	33.4	30.2
Head	GSM 850	GSM	A	1267M	1:8.3	0.00	836.60	190	33.5	32.90	Left Tilt	0	0.060	1.148	0.069	0.268	0.168		35.9		
	PRESS													Head 1.6 W/kg (m averaged over							

Table 12-2

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 850	GSM	E	1261M	1:8.3	0.00	848.80	251	31.0	29.90	Right Cheek	0	0.360	1.288	0.464	0.464	0.290		25.1		
Head	GSM 850	GSM	E	1261M	1:8.3	0.09	848.80	251	31.0	29.90	Right Tilt	0	0.332	1.288	0.428	0.428	0.268		25.4	24.3	20.8
Head	GSM 850	GSM	E	1261M	1:8.3	0.00	848.80	251	31.0	29.90	Left Cheek	0	0.431	1.288	0.555	0.555	0.347	A1	24.3	24.3	20.0
Head	GSM 850	GSM	E	1261M	1:8.3	0.00	848.80	251	31.0	29.90	Left Tilt	0	0.406	1.288	0.523	0.523	0.327		24.6		
	ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Head							
	Spatial Peak													1.6 W/kg (m							
	Uncontrolled Exposure/General Population													averaged over	1 gram						

Table 12-3

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1:2.76	-0.04	848.80	251	30.5	29.38	Back	10	0.241	1.294	0.312	0.802	0.501		31.1		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1:2.76	-0.06	848.80	251	30.5	29.38	Front	10	0.141	1.294	0.182	0.469	0.293		33.4		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1:2.76	0.03	848.80	251	30.5	29.38	Bottom	10	0.058	1.294	0.075	0.193	0.121		37.3	31.1	30.2
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1:2.76	0.03	848.80	251	30.5	29.38	Right	10	0.136	1.294	0.176	0.452	0.283		33.6		
Hotspot	GPRS 850	GPRS 3 Tx Slots	A	1267M	1:2.76	-0.04	848.80	251	30.5	29.38	Left	10	0.080	1.294	0.104	0.266	0.166		35.9		
	ANSI/IEEE C95.1 1992 - SAFETY LIMIT Soatial Peak													Body 1.6 W/kg (m	W/e)						
	Spatial Peak Uncontrolled Exposury General Population													averaged over							

Table 12-4

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	[dDm1	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1:2.76	-0.06	848.80	251	30.5	28.92	Back	10	0.374	1.439	0.538	0.914	0.571	A2	28.7		
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1:2.76	-0.19	848.80	251	30.5	28.92	Front	10	0.361	1.439	0.519	0.882	0.551		28.9	28.4	28.4
Hotspot		GPRS 3 Tx Slots	E	1261M	1:2.76	-0.01	848.80	251	30.5	28.92	Тор	10	0.402	1.439	0.578	0.982	0.614	A3	28.4	20.4	20.4
Hotspot	GPRS 850	GPRS 3 Tx Slots	E	1261M	1:2.76	-0.08	848.80	251	30.5	28.92	Right	10	0.241	1.439	0.347	0.589	0.368		30.6		
	ANSI/IEEE C95.1 1992 - SAFETY LIMIT													Body							
				Spatial Peak										1.6 W/kg (m							
	Uncontrolled Exposure/General Population													averaged over	1 gram						

12.2 GSM 1900 Standalone SAR

Table 12-5

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	GSM 1900	GSM	A	1298M	1:8.3	-0.05	1880.00	661	31.0	29.90	Right Cheek	0	0.052	1.288	0.067	0.279	0.174		33.5		
Head	GSM 1900	GSM	A	1298M	1:8.3	0.04	1880.00	661	31.0	29.90	Right Tilt	0	0.030	1.288	0.039	0.161	0.101		35.9	31.5	28.0
Head	GSM 1900	GSM	A	1298M	1:8.3	0.02	1880.00	661	31.0	29.90	Left Cheek	0	0.083	1.288	0.107	0.446	0.279	A4	31.5	31.5	28.0
Head	GSM 1900	GSM	A	1298M	1:8.3	-0.09	1880.00	661	31.0	29.90	Left Tilt	0	0.045	1.288	0.058	0.242	0.151		34.1		
			ANSI/IE	EE C95.1 1992 - S	AFETY LIMIT									Head							
			Uncontroll	Spatial Peak ed Exposure/Ger		ion								1.6 W/kg (m averaged over							

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	0.08	1880.00	661	22.0	20.79	Back	10	0.230	1.321	0.304	0.304	0.190	A5	23.9		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	-0.04	1880.00	661	22.0	20.79	Front	10	0.215	1.321	0.284	0.284	0.178		24.2		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	0.00	1880.00	661	22.0	20.79	Bottom	10	0.430	1.321	0.568	0.568	0.355	A6	21.2	21.2	17.8
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	-0.05	1880.00	661	22.0	20.79	Right	10	0.034	1.321	0.045	0.045	0.028		32.2		
Hotspot	GPRS 1900	GPRS 4 Tx Slots	A	1298M	1:2.076	0.06	1880.00	661	22.0	20.79	Left	10	0.042	1.321	0.055	0.055	0.034		31.3		
			ANSI/IE	EE C95.1 1992 - S										Body							
	Spatial Peak Uncontrolled Exposure/General Population													1.6 W/kg (m averaged over							

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12.3 UMTS 850 Standalone SAR

Table 12-7

										· · -	•											
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 850	RMC	A	1267M	1:1	0.01	846.60	4233	25.0	24.94	Right Cheek	0	0	0.172	1.014	0.174	0.527	0.329		32.5		
Head	UMTS 850	RMC	A	1267M	1:1	0.02	846.60	4233	25.0	24.94	Right Tilt	0	0	0.082	1.014	0.083	0.251	0.157		35.8	32.5	29.8
Head	UMTS 850	RMC	A	1267M	1:1	-0.02	846.60	4233	25.0	24.94	Left Cheek	0	1	0.138	1.014	0.140	0.423	0.264		33.5	32.3	25.0
Head	UMTS 850	RMC	A	1267M	1:1	0.04	846.60	4233	25.0	24.94	Left Tilt	0	0	0.052	1.014	0.053	0.159	0.099		37.7		
			ANSI/IE	EE C95.1 1992 - 5											Head							
				Spatial Peak											W/kg (mW/g)							
			Uncontroll	ed Exposure/Ger	eral Populati	ion								aver	aged over 1 gran	1						

Table 12-8

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]		Test Position		Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)	Plot#		Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 850	RMC	E	1298M	1:1	0.02	846.60	4233	22.0	21.16	Right Cheek	0	0.539	1.213	0.654	0.654	0.409		23.8		
Head	UMTS 850	RMC	E	1298M	1:1	0.01	846.60	4233	22.0	21.16	Right Tilt	0	0.481	1.213	0.583	0.583	0.364		24.3	22.9	21.0
Head	UMTS 850	RMC	E	1298M	1:1	0.01	846.60	4233	22.0	21.16	Left Cheek	0	0.659	1.213	0.799	0.799	0.499	A7	22.9	22.5	21.0
Head	UMTS 850	RMC	E	1298M	1:1	-0.01	846.60	4233	22.0	21.16	Left Tilt	0	0.630	1.213	0.764	0.764	0.478		23.1		
			ANSI/IE	EE C95.1 1992 - S	AFETY LIMIT									Head							
				Spatial Peak										1.6 W/kg (m	W/g)						
			Uncontrolle	ed Exposure/Ger	neral Popula	tion								averaged over	1 gram						

Table 12-9

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]		Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]		Plot #		Overall Plimit [dBm]	
Body-worn/Hotspot	UMTS 850	RMC	A	1267M	1:1	0.01	846.60	4233	25.0	24.94	Back	10	0	0.325	1.014	0.330	0.657	0.411	A8	29.8		
Hotspot	UMTS 850	RMC	Α	1267M	1:1	-0.03	846.60	4233	25.0	24.94	Front	10	0	0.176	1.014	0.178	0.356	0.223		32.4		
Hotspot	UMTS 850	RMC	A	1267M	1:1	0.00	846.60	4233	25.0	24.94	Bottom	10	0	0.080	1.014	0.081	0.162	0.101		35.9	29.8	28.0
Hotspot	UMTS 850	RMC	A	1267M	1:1	-0.02	846.60	4233	25.0	24.94	Right	10	0	0.176	1.014	0.178	0.356	0.223		32.4		
Hotspot	UMTS 850	RMC	A	1267M	1:1	0.06	846.60	4233	25.0	24.94	Left	10	0	0.112	1.014	0.114	0.227	0.142		34.4		
			ANSI/IE	EE C95.1 1992 - S	AFETY LIMIT										Body							
				Spatial Peal											W/kg (mW/g)							
			Uncontrolle	ed Exposure/Ge	neral Popula	tion								aver	aged over 1 gran	n						

Table 12-10

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.12	846.60	4233	25.0	24.23	Back	10	0.312	1.194	0.373	0.564	0.353		29.2		
Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.04	846.60	4233	25.0	24.23	Front	10	0.333	1.194	0.398	0.602	0.376		29.0	28.7	26.8
Hotspot	UMTS 850	RMC	E	1267M	1:1	0.02	846.60	4233	25.0	24.23	Тор	10	0.352	1.194	0.420	0.636	0.398	A9	28.7	20.7	20.0
Hotspot	UMTS 850	RMC	E	1267M	1:1	-0.03	846.60	4233	25.0	24.23	Right	10	0.206	1.194	0.246	0.372	0.233		31.0		
				EE C95.1 1992 - S Spatial Peak ed Exposure/Ger										Body 1.6 W/kg (m averaged over							

12.4 UMTS 1750 Standalone SAR

Table 12-11

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 1750	RMC	A	1298M	1:1	0.13	1712.40	1312	23.5	23.45	Right Cheek	0	33	0.088	1.012	0.089	0.229	0.143		34.0		
Head	UMTS 1750	RMC	A	1298M	1:1	-0.09	1712.40	1312	23.5	23.45	Right Tilt	0	33	0.073	1.012	0.074	0.190	0.119		34.8	31.0	27.6
Head	UMTS 1750	RMC	A	1298M	1:1	0.02	1712.40	1312	23.5	23.45	Left Cheek	0	11	0.172	1.012	0.174	0.447	0.279	A10	31.0	31.0	27.0
Head	UMTS 1750	RMC	A	1298M	1:1	-0.01	1712.40	1312	23.5	23.45	Left Tilt	0	11	0.074	1.012	0.075	0.192	0.120		34.7		
			ANSI/IE	EE C95.1 1992 - 9	AFETY LIMIT										Head							
				Spatial Peak										1.6	W/kg (mW/g)							
			Uncontrolle	ed Exposure/Ger	eral Populati	on								avera	aged over 1 gram	1				l		

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Back	10	11	0.519	1.035	0.537	0.537	0.336	A11	21.6		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Front	10	11	0.379	1.035	0.392	0.392	0.245		23.0		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.02	1712.40	1312	19.0	18.85	Bottom	10	11	0.809	1.035	0.837	0.837	0.523		19.7		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.00	1732.40	1412	19.0	18.23	Bottom	10	11	0.843	1.194	1.007	1.007	0.629		18.9	18.7	18.0
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1752.60	1513	19.0	18.28	Bottom	10	11	0.896	1.180	1.057	1.057	0.661	A12	18.7	18.7	18.0
Hotspot	UMTS 1750	RMC	Α	1298M	1:1	0.01	1752.60	1513	19.0	18.28	Bottom	10	11	0.862	1.180	1.017	1.017	0.636		18.9		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	0.01	1712.40	1312	19.0	18.85	Right	10	33	0.088	1.035	0.091	0.091	0.057		29.4		
Hotspot	UMTS 1750	RMC	A	1298M	1:1	-0.01	1712.40	1312	19.0	18.85	Left	10	33	0.071	1.035	0.073	0.073	0.046		30.3		
				EE C95.1 1992 - : Spatial Peal led Exposure/Ger											Body 6 W/kg (mW/g) aged over 1 gran	n						
Note: Blue entry represes	nts variability measurement																					

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12.5 UMTS 1900 Standalone SAR

Table 12-13

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	UMTS 1900	RMC	A	1298M	1:1	-0.04	1880.00	9400	24.5	23.98	Right Cheek	0	1	0.110	1.127	0.124	0.265	0.166		33.5		
Head	UMTS 1900	RMC	A	1298M	1:1	-0.01	1880.00	9400	24.5	23.98	Right Tilt	0	1	0.051	1.127	0.057	0.123	0.077		36.9	24.2	27.8
Head	UMTS 1900	RMC	A	1298M	1:1	0.07	1880.00	9400	24.5	23.98	Left Cheek	0	1	0.188	1.127	0.212	0.453	0.283	A13	31.2	31.2	27.0
Head	UMTS 1900	RMC	A	1298M	1:1	-0.03	1880.00	9400	24.5	23.98	Left Tilt	0	1	0.065	1.127	0.073	0.157	0.098		35.8		
			ANSI/IE	EE C95.1 1992 - 9								•	•	•	Head		•					
				Spatial Peak											W/kg (mW/g)							
			Uncontroll	ed Exposure/Ger	eral Populat	ion								aver	aged over 1 gran	1						

Table 12-14

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Conducted Power [dBm]		Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	UMTS 1900	RMC	A	1298M	1:1	0.01	1880.00	9400	18.5	18.43	Back	10	3	0.389	1.016	0.395	0.395	0.247	A14	22.5		
Hotspot	UMTS 1900	RMC	A	1298M	1:1	0.00	1880.00	9400	18.5	18.43	Front	10	17	0.319	1.016	0.324	0.324	0.203		23.3	1	
Hotspot	UMTS 1900	RMC	A	1298M	1:1	0.00	1880.00	9400	18.5	18.43	Bottom	10	3	0.695	1.016	0.706	0.706	0.441	A15	20.0	20.0	17.5
Hotspot	UMTS 1900	RMC	A	1298M	1:1	0.07	1880.00	9400	18.5	18.43	Right	10	0	0.043	1.016	0.044	0.044	0.028		32.0	1	
Hotspot	UMTS 1900	RMC	A	1298M	1:1	0.03	1880.00	9400	18.5	18.43	Left	10	1	0.050	1.016	0.051	0.051	0.032		31.4	1	
				EE C95.1 1992 - 5 Spatial Peak ed Exposure/Ger											Body 5 W/kg (mW/g) aged over 1 gran	,						

12.6 LTE Band 71 Standalone SAR

Table 12-15

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 71	20	QPSK	A	1278M	1:1	0.02	680.50	133297	0.0	25.0	24.46	1	50	Right Cheek	0	0	0.134	1.132	0.152	0.491	0.307		33.1		
Head	LTE Band 71	20	QPSK	A	1296M	1:1	0.06	680.50	133297	1.0	24.0	23.34	50	50	Right Cheek	0	0	0.084	1.164	0.098	0.398	0.249		34.0		
Head	LTE Band 71	20	QPSK	A	1296M	1:1	0.01	680.50	133297	0.0	25.0	24.46	1	50	Right Tilt	0	13	0.065	1.132	0.074	0.238	0.149		36.3		
Head	LTE Band 71	20	QPSK	A	1296M	1:1	0.03	680.50	133297	1.0	24.0	23.34	50	50	Right Tilt	0	13	0.037	1.164	0.043	0.175	0.109		37.6	33.1	30.1
Head	LTE Band 71	20	QPSK	A	1285M	1:1	0.05	680.50	133297	0.0	25.0	24.46	1	50	Left Cheek	0	11	0.107	1.132	0.121	0.392	0.245		34.1	33.1	30.1
Head	LTE Band 71	20	QPSK	A	1285M	1:1	0.09	680.50	133297	1.0	24.0	23.34	50	50	Left Cheek	0	11	0.082	1.164	0.095	0.389	0.243		34.2		
Head	LTE Band 71	20	QPSK	A	1302M	1:1	0.15	680.50	133297	0.0	25.0	24.46	1	50	Left Tilt	0	11	0.066	1.132	0.075	0.242	0.151		36.2		
Head	LTE Band 71	20	QPSK	A	1302M	1:1	-0.20	680.50	133297	1.0	24.0	23.34	50	50	Left Tilt	0	11	0.050	1.164	0.058	0.237	0.148		36.3		
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												1.6 W/kg	ead g (mW/g) over 1 gram							

Table 12-16

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position		Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#		Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 71	20	QPSK	E	1288M	1:1	0.03	680.50	133297	0.0	19.0	17.46	1	50	Right Cheek	0	0.203	1.426	0.289	0.289	0.181		24.3		
Head	LTE Band 71	20	QPSK	E	1288M	1:1	-0.17	680.50	133297	0.0	19.0	17.44	50		Right Cheek	0	0.201	1.432	0.288	0.288	0.180		24.4		
Head	LTE Band 71	20	QPSK	E	1288M	1:1	0.05	680.50	133297	0.0	19.0	17.46	1	50	Right Tilt	0	0.175	1.426	0.250	0.250	0.156		25.0		
Head	LTE Band 71	20	QPSK	E	1288M	1:1	-0.04	680.50	133297	0.0	19.0	17.44	50	50	Right Tilt	0	0.204	1.432	0.292	0.292	0.183		24.3	22.8	18.0
Head	LTE Band 71	20	QPSK	E	1302M	1:1	-0.01	680.50	133297	0.0	19.0	17.46	1	50	Left Cheek	0	0.292	1.426	0.416	0.416	0.260	A16	22.8	22.8	18.0
Head	LTE Band 71	20	QPSK	E	1302M	1:1	0.19	680.50	133297	0.0	19.0	17.44	50	50	Left Cheek	0	0.269	1.432	0.385	0.385	0.241		23.1		
Head	LTE Band 71	20	QPSK	E	1302M	1:1	0.13	680.50	133297	0.0	19.0	17.46	1	50	Left Tilt	0	0.256	1.426	0.365	0.365	0.228		23.3		
Head	LTE Band 71	20	QPSK	E	1302M	1:1	0.21	680.50	133297	0.0	19.0	17.44	50	50	Left Tilt	0	0.238	1.432	0.341	0.341	0.213		23.6		
					SI/IEEE C95.1 199 Spatial crolled Exposure	Peak												Head 5 W/kg (mW/g) aged over 1 gran	n						

Table 12-17

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)		Channel #		Max Allowed Power [dBm]	Power [dBm]		RB Offset	Test Position	Spacing (mm)		Measured 1g SAR (W/kg)	Power Scaling Factor	SAR [W/kg]				Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	1296M	1:1	-0.14	680.50	133297	0.0	25.0	24.46	1	50	Back	10	0	0.374	1.132	0.423	0.993	0.621	A17	28.7		
Body-worn/Hotspot	LTE Band 71	20	QPSK	A	1296M	1:1	0.03	680.50	133297	1.0	24.0	23.34	50	50	Back	10	0	0.269	1.164	0.313	0.924	0.578		29.0		i l
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.15	680.50	133297	0.0	25.0	24.46	1	50	Front	10	0	0.192	1.132	0.217	0.510	0.319		31.6		i l
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.01	680.50	133297	1.0	24.0	23.34	50	50	Front	10	0	0.151	1.164	0.176	0.519	0.324		31.5		i l
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	0.09	680.50	133297	0.0	25.0	24.46	1	50	Bottom	10	0	0.130	1.132	0.147	0.345	0.216		33.3	28.7	28.7
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	0.09	680.50	133297	1.0	24.0	23.34	50	50	Bottom	10	0	0.107	1.164	0.125	0.368	0.230		33.0	28.7	28.7
Hotspot	LTE Band 71	20	QPSK	A	1296M	1:1	-0.13	680.50	133297	0.0	25.0	24.46	1	50	Right	10	0	0.190	1.132	0.215	0.504	0.315		31.6		i l
Hotspot	LTE Band 71	20	QPSK	A	1296M	1:1	-0.16	680.50	133297	1.0	24.0	23.34	50	50	Right	10	0	0.134	1.164	0.156	0.460	0.288		32.0		i l
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	-0.13	680.50	133297	0.0	25.0	24.46	1	50	Left	10	0	0.171	1.132	0.194	0.454	0.284		32.1		i l
Hotspot	LTE Band 71	20	QPSK	A	1302M	1:1	0.06	680.50	133297	1.0	24.0	23.34	50	50	Left	10	0	0.114	1.164	0.133	0.392	0.245		32.7		i l
					ISI/IEEE C95.1 19 Spatial trolled Exposure	Peak												1.6 W/kg averaged o	(mW/g)							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	(dB)	Frequency [MHz]	Channel #		Max Allowed Power (dBm)	Power (dBm)	RB Size			Spacing [mm]	SAR [W/kg]		SAR [W/kg]	SAR [W/kg]	(1g SAR)	Plot#	[dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	0.00	680.50	133297	0.0	25.0	23.92	1	50	Back	10	0.320	1.282	0.410	0.898	0.561		28.8		
Body-worn/Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	0.01	680.50	133297	1.0	24.0	22.78	50	50	Back	10	0.271	1.324	0.359	0.989	0.618		28.4		
Hotspot	LTE Band 71	20	QPSK	E	1302M	1:1	+0.01	680.50	133297	0.0	25.0	23.92	1	50	Front	10	0.318	1.282	0.408	0.892	0.558		28.8		
Hotspot	LTE Band 71	20	QPSK	E	1302M	1:1	0.02	680.50	133297	1.0	24.0	22.78	50	50	Front	10	0.237	1.324	0.314	0.865	0.541		29.0	28.4	28.4
Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	0.00	680.50	133297	0.0	25.0	23.92	1	50	Top	10	0.301	1.282	0.386	0.844	0.528		29.1	20.4	20.4
Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	-0.11	680.50	133297	1.0	24.0	22.78	50	50	Top	10	0.210	1.324	0.278	0.766	0.479		29.5		
Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	0.02	680.50	133297	0.0	25.0	23.92	1	50	Right	10	0.282	1.282	0.362	0.791	0.494		29.4		
Hotspot	LTE Band 71	20	QPSK	E	1296M	1:1	-0.01	680.50	133297	1.0	24.0	22.78	50	50	Right	10	0.212	1.324	0.281	0.773	0.483		29.5		
					SI/IEEE C95.1 19: Spatial strolled Exposure	Peak									-			Body 6 W/kg (mW/g) raged over 1 gran							

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12.7 LTE Band 12 Standalone SAR

Table 12-19

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 12	10	QPSK	A	1288M	1:1	0.05	707.50	23095	0.0	25.3	24.83	1	0	Right Cheek	0	1	0.139	1.114	0.155	0.490	0.306		33.3		-
Head	LTE Band 12	10	QPSK	A	1296M	1:1	0.06	707.50	23095	1.0	24.3	23.88	25	25	Right Cheek	0	1	0.099	1.102	0.109	0.434	0.271		33.9		
Head	LTE Band 12	10	QPSK	A	1296M	1:1	0.04	707.50	23095	0.0	25.3	24.83	1	0	Right Tilt	0	22	0.054	1.114	0.060	0.190	0.119		37.5		1
Head	LTE Band 12	10	QPSK	A	1296M	1:1	0.01	707.50	23095	1.0	24.3	23.88	25	25	Right Tilt	0	22	0.047	1.102	0.052	0.206	0.129		37.1	33.3	30.3
Head	LTE Band 12	10	QPSK	A	1285M	1:1	0.03	707.50	23095	0.0	25.3	24.83	1	0	Left Cheek	0	1	0.111	1.114	0.124	0.391	0.244		34.3	33.3	30.3
Head	LTE Band 12	10	QPSK	A	1285M	1:1	0.07	707.50	23095	1.0	24.3	23.88	25	25	Left Cheek	0	1	0.080	1.102	0.088	0.351	0.219		34.8		
Head	LTE Band 12	10	QPSK	A	1320M	1:1	+0.02	707.50	23095	0.0	25.3	24.83	1	0	Left Tilt	0	1	0.077	1.114	0.086	0.271	0.169		35.9		
Head	LTE Band 12	10	QPSK	A	1320M	1:1	0.09	707.50	23095	1.0	24.3	23.88	25	25	Left Tilt	0	1	0.061	1.102	0.067	0.267	0.167		36.0		
					SI/IEEE C95.1 19 Spatial ntrolled Exposure	Peak												1.6 W/kg averaged c								

Table 12-20

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.07	707.50	23095	0.0	22.0	20.60	1	0	Right Cheek	0	0.482	1.380	0.665	0.665	0.416		23.7		
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.02	707.50	23095	0.0	22.0	20.62	25	0	Right Cheek	0	0.455	1.374	0.625	0.625	0.391		24.0		
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.06	707.50	23095	0.0	22.0	20.60	1	0	Right Tilt	0	0.376	1.380	0.519	0.519	0.324		24.8		
Head	LTE Band 12	10	QPSK	E	1288M	1:1	0.03	707.50	23095	0.0	22.0	20.62	25	0	Right Tilt	0	0.374	1.374	0.514	0.514	0.321		24.8		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	-0.02	707.50	23095	0.0	22.0	20.60	1	0	Left Cheek	0	0.625	1.380	0.863	0.863	0.539	A18	22.6	22.6	21.0
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.06	707.50	23095	0.0	22.0	20.62	25	0	Left Cheek	0	0.589	1.374	0.809	0.809	0.506		22.9		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.06	707.50	23095	0.0	22.0	20.58	50	0	Left Cheek	0	0.567	1.387	0.786	0.786	0.491		23.0		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.11	707.50	23095	0.0	22.0	20.60	1	0	Left Tilt	0	0.533	1.380	0.736	0.736	0.460		23.3		
Head	LTE Band 12	10	QPSK	E	1302M	1:1	0.16	707.50	23095	0.0	22.0	20.62	25	0	Left Tilt	0	0.544	1.374	0.747	0.747	0.467		23.2		
					ISI/IEEE C95.1 19: Spatial ntrolled Exposure	Peak												Head 6 W/kg (mW/g) raged over 1 gran	n						

Table 12-21

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1296M	1:1	0.00	707.50	23095	0.0	25.3	24.83	1	0	Back	10	1	0.337	1.114	0.375	0.988	0.618		29.5		
Body-worn/Hotspot	LTE Band 12	10	QPSK	A	1296M	1:1	0.05	707.50	23095	1.0	24.3	23.88	25	25	Back	10	1	0.267	1.102	0.294	0.974	0.609		29.6		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.03	707.50	23095	0.0	25.3	24.83	1	0	Front	10	1	0.202	1.114	0.225	0.592	0.370		31.7		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.00	707.50	23095	1.0	24.3	23.88	25	25	Front	10	1	0.157	1.102	0.173	0.573	0.358		31.9		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.02	707.50	23095	0.0	25.3	24.83	1	0	Bottom	10	1	0.156	1.114	0.174	0.457	0.286		32.8	29.5	29.5
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	0.16	707.50	23095	1.0	24.3	23.88	25	25	Bottom	10	1	0.118	1.102	0.130	0.430	0.269		33.1	29.5	29.5
Hotspot	LTE Band 12	10	QPSK	A	1296M	1:1	0.00	707.50	23095	0.0	25.3	24.83	1	0	Right	10	1	0.140	1.114	0.156	0.410	0.256		33.3		
Hotspot	LTE Band 12	10	QPSK	A	1296M	1:1	0.02	707.50	23095	1.0	24.3	23.88	25	25	Right	10	1	0.107	1.102	0.118	0.390	0.244		33.5		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	-0.01	707.50	23095	0.0	25.3	24.83	1	0	Left	10	1	0.162	1.114	0.180	0.475	0.297		32.7		
Hotspot	LTE Band 12	10	QPSK	A	1302M	1:1	-0.05	707.50	23095	1.0	24.3	23.88	25	25	Left	10	1	0.130	1.102	0.143	0.474	0.296		32.7		
					SI/IEEE C95.1 199 Spatial trolled Exposure	Peak												Bo 1.6 W/kg averaged o	(mW/g)							

Table 12-22

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]			Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	0.07	707.50	23095	0.0	25.3	24.39	1	0	Back	10	0.421	1.233	0.519	0.945	0.591	A19	28.1		
Body-worn/Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	0.10	707.50	23095	1.0	24.3	23.25	25	25	Back	10	0.339	1.274	0.432	0.989	0.618		27.9		1
Hotspot	LTE Band 12	10	QPSK	E	1302M	1:1	+0.06	707.50	23095	0.0	25.3	24.39	1	0	Front	10	0.315	1.233	0.388	0.707	0.442		29.4		1 1
Hotspot	LTE Band 12	10	QPSK	E	1302M	1:1	-0.04	707.50	23095	1.0	24.3	23.25	25	25	Front	10	0.312	1.274	0.397	0.910	0.569		28.3	27.9	27.9
Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	-0.02	707.50	23095	0.0	25.3	24.39	1	0	Тор	10	0.400	1.233	0.493	0.898	0.561		28.3	27.9	27.9
Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	-0.02	707.50	23095	1.0	24.3	23.25	25	25	Тор	10	0.342	1.274	0.436	0.998	0.624		27.9		1
Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	0.05	707.50	23095	0.0	25.3	24.39	1	0	Right	10	0.337	1.233	0.416	0.756	0.473		29.1		1 1
Hotspot	LTE Band 12	10	QPSK	E	1296M	1:1	-0.04	707.50	23095	1.0	24.3	23.25	25	25	Right	10	0.271	1.274	0.345	0.791	0.494		28.9		1
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												Body 6 W/kg (mW/g) aged over 1 gran							

12.8 LTE Band 13 Standalone SAR

Table 12-23

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	LTE Band 13	10	QPSK	A	1296M	1:1	0.06	782.00	23230	0.0	25.0	24.09	1	49	Right Cheek	0	11	0.135	1.233	0.166	0.526	0.329		32.7		
Head	LTE Band 13	10	QPSK	A	1296M	1:1	0.06	782.00	23230	1.0	24.0	23.17	25	12	Right Cheek	0	11	0.098	1.211	0.119	0.472	0.295		33.2		1
Head	LTE Band 13	10	QPSK	A	1296M	1:1	0.02	782.00	23230	0.0	25.0	24.09	1	49	Right Tilt	0	11	0.061	1.233	0.075	0.238	0.149		36.2		1
Head	LTE Band 13	10	QPSK	A	1296M	1:1	0.03	782.00	23230	1.0	24.0	23.17	25	12	Right Tilt	0	11	0.053	1.211	0.064	0.255	0.159		35.9	32.7	30.0
Head	LTE Band 13	10	QPSK	A	1302M	1:1	0.07	782.00	23230	0.0	25.0	24.09	1	49	Left Cheek	0	0	0.108	1.233	0.133	0.421	0.263		33.7	32.7	30.0
Head	LTE Band 13	10	QPSK	A	1302M	1:1	0.01	782.00	23230	1.0	24.0	23.17	25	12	Left Cheek	0	0	0.090	1.211	0.109	0.434	0.271		33.6		1
Head	LTE Band 13	10	QPSK	A	1302M	1:1	0.09	782.00	23230	0.0	25.0	24.09	1	49	Left Tilt	0	0	0.069	1.233	0.085	0.269	0.168		35.7		1 1
Head	LTE Band 13	10	QPSK	A	1302M	1:1	0.05	782.00	23230	1.0	24.0	23.17	25	12	Left Tilt	0	0	0.046	1.211	0.056	0.222	0.139		36.5		1
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												1.6 W/k	rad g (mW/g) over 1 gram							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]		MPR (dB)	Max Allowed Power (dBm)	Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio	Plot#	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.12	782.00	23230	0.0	22.0	20.34	1	0	Right Cheek	0	0.564	1.466	0.827	0.827	0.517		22.8		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	-0.03	782.00	23230	0.0	22.0	20.30	25	12	Right Cheek	0	0.585	1.479	0.865	0.865	0.541		22.6		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	-0.02	782.00	23230	0.0	22.0	20.24	50	0	Right Cheek	0	0.584	1.500	0.876	0.876	0.548		22.5		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	-0.01	782.00	23230	0.0	22.0	20.34	1	0	Right Tilt	0	0.482	1.466	0.707	0.707	0.442		23.5		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	-0.05	782.00	23230	0.0	22.0	20.30	25	12	Right Tilt	0	0.524	1.479	0.775	0.775	0.484		23.1		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.04	782.00	23230	0.0	22.0	20.34	1	0	Left Cheek	0	0.742	1.466	1.088	1.088	0.680		21.6	21.5	21.0
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.07	782.00	23230	0.0	22.0	20.30	25	12	Left Cheek	0	0.754	1.479	1.115	1.115	0.697	A20	21.5		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.13	782.00	23230	0.0	22.0	20.24	50	0	Left Cheek	0	0.743	1.500	1.115	1.115	0.697		21.5		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.18	782.00	23230	0.0	22.0	20.34	1	0	Left Tilt	0	0.747	1.466	1.095	1.095	0.684		21.6		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.14	782.00	23230	0.0	22.0	20.30	25	12	Left Tilt	0	0.711	1.479	1.052	1.052	0.658		21.7		
Head	LTE Band 13	10	QPSK	E	1302M	1:1	0.11	782.00	23230	0.0	22.0	20.24	50	0	Left Tilt	0	0.743	1.500	1.115	1.115	0.697		21.5		1 1
					SI/IEEE C95.1 199 Spatial trolled Exposure	Peak												Head W/kg (mW/g) aged over 1 gran	,						

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Table 12-25

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	0.21	782.00	23230	0.0	25.0	24.09	1	49	Back	10	0	0.360	1.233	0.444	0.994	0.621		28.5		
Body-worn/Hotspot														12	Back	10	0	0.261	1.211	0.316	0.891	0.557		29.0		
Hotspot	oot LTE Band 13 10 QPSK A 1302M 1:1 -0.15 782.00 23230 0.0 25.0													49	Front	10	0	0.228	1.233	0.281	0.630	0.394		30.5		
Hotspot	ot LTE Band 13 10 QPSK A 1302M 1:1 0.10 782.00 23230 1.0 24.0													12	Front	10	0	0.170	1.211	0.206	0.580	0.363		30.8		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	0.02	782.00	23230	0.0	25.0	24.09	1	49	Bottom	10	0	0.082	1.233	0.101	0.226	0.141		34.9	28.5	28.5
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	0.03	782.00	23230	1.0	24.0	23.17	25	12	Bottom	10	0	0.059	1.211	0.071	0.201	0.126		35.4	28.5	28.5
Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.14	782.00	23230	0.0	25.0	24.09	1	49	Right	10	1	0.177	1.233	0.218	0.489	0.306		31.6		
Hotspot	LTE Band 13	10	QPSK	A	1296M	1:1	-0.06	782.00	23230	1.0	24.0	23.17	25	12	Right	10	11	0.129	1.211	0.156	0.440	0.275		32.0		
Hotspot	LTE Band 13	10	QPSK	A	1302M	1:1	-0.08	782.00	23230	0.0	25.0	24.09	1	49	Left	10	0	0.159	1.233	0.196	0.439	0.274		32.0		
Hotspot														12	Left	10	0	0.127	1.211	0.154	0.433	0.271		32.1		
	LTE Bard 13																	1.6 W/kg averaged o	(mW/g)							

Table 12-26

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	+0.05	782.00	23230	0.0	25.0	23.43	1	25	Back	10	0.473	1.435	0.679	0.895	0.559	A21	26.6		
Body-worn/Hotspot														12	Back	10	0.347	1.403	0.487	0.808	0.505		27.1		
Hotspot															Front	10	0.481	1.435	0.690	0.910	0.569		26.6		r l
Hotspot	LTE Band 13	10	QPSK	E	1302M	1:1	0.02	782.00	23230	1.0	24.0	22.53	25	12	Front	10	0.370	1.403	0.519	0.861	0.538		26.8	20.2	26.2
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	+0.03	782.00	23230	0.0	25.0	23.43	1	25	Top	10	0.526	1.435	0.755	0.995	0.622	A22	26.2	20.2	20.2
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	-0.07	782.00	23230	1.0	24.0	22.53	25	12	Тор	10	0.422	1.403	0.592	0.982	0.614		26.2		
Hotspot	LTE Band 13	10	QPSK	E	1296M	1:1	+0.03	782.00	23230	0.0	25.0	23.43	1	25	Right	10	0.403	1.435	0.578	0.762	0.476		27.3		1
Hotspot														12	Right	10	0.322	1.403	0.452	0.750	0.469		27.4		
	ANSI/IEE C 95.1 1992 - SAPETY LIMIT Spirial Pask Uncontrolle Engopour (General Population																Body 6 W/kg (mW/g) raged over 1 gran								

12.9 LTE Band 14 Standalone SAR

Table 12-27

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head														49	Right Cheek	0	0	0.164	1.109	0.182	0.525	0.328		32.7		
Head	Head LTE Band 14 10 QPSK A 1296M 1:1 0.01 793.00 23330 1.0 24.3													12	Right Cheek	0	0	0.117	1.161	0.136	0.493	0.308		32.9		1 1
Head														49	Right Tilt	0	0	0.076	1.109	0.084	0.243	0.152		36.0		1
Head	LTE Band 14	10	QPSK	A	1296M	1:1	0.04	793.00	23330	1.0	24.3	23.65	25	12	Right Tilt	0	0	0.061	1.161	0.071	0.257	0.161		35.7	32.7	29.9
Head	LTE Band 14	10	QPSK	A	1302M	1:1	0.04	793.00	23330	0.0	25.3	24.85	1	49	Left Cheek	0	0	0.107	1.109	0.119	0.342	0.214		34.5	32.7	29.9
Head	LTE Band 14	10	QPSK	A	1302M	1:1	0.03	793.00	23330	1.0	24.3	23.65	25	12	Left Cheek	0	0	0.090	1.161	0.104	0.380	0.238		34.1		1
Head	LTE Band 14	10	QPSK	A	1302M	1:1	-0.16	793.00	23330	0.0	25.3	24.85	1	49	Left Tilt	0	0	0.067	1.109	0.074	0.214	0.134		36.5		1
Head	LTE Band 14	10	QPSK	A	1302M	1:1	0.08	793.00	23330	1.0	24.3	23.65	25	12	Left Tilt	0	0	0.057	1.161	0.066	0.240	0.150		36.0		
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												1.6 W/kj averaged o								

Table 12-28

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]		Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.05	793.00	23330	0.0	22.0	20.45	1	49	Right Cheek	0	0.595	1.429	0.850	0.850	0.531		22.7		
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.04	793.00	23330	0.0	22.0	20.46	25 50	25	Right Cheek	0	0.601	1.426	0.857	0.857	0.536		22.6		
Head	d LYE Band 14 10 QPSK E 1302M 1:1 -0.03 793.00 23330 0.0 22.0 20.43														Right Cheek	0	0.595	1.435	0.854	0.854	0.534		22.6	l	
Head	d LTE Band 14 10 QPSK E 1302M 1:1 -0.01 793.00 23330 0.0 22.0 20.45														Right Tilt	0	0.553	1.429	0.790	0.790	0.494		23.0	I	
Head															Right Tilt	0	0.559	1.426	0.797	0.797	0.498		22.9	l	
Head	LTE Band 14	10	QPSK	E	1302M	1:1	-0.01	793.00	23330	0.0	22.0	20.45	1	49	Left Cheek	0	0.755	1.429	1.079	1.079	0.674		21.6	21.3	21.0
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.06	793.00	23330	0.0	22.0	20.46	25	25	Left Cheek	0	0.787	1.426	1.122	1.122	0.701		21.5	21.3	21.0
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.05	793.00	23330	0.0	22.0	20.43	50	0	Left Cheek	0	0.797	1.435	1.144	1.144	0.715		21.4	Ī	
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.14	793.00	23330	0.0	22.0	20.45	1	49	Left Tilt	0	0.776	1.429	1.109	1.109	0.693		21.5	1	
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.15	793.00	23330	0.0	22.0	20.46	25	25	Left Tilt	0	0.761	1.426	1.085	1.085	0.678		21.6	i	
Head	LTE Band 14	10	QPSK	E	1302M	1:1	0.04	793.00	23330	0.0	22.0	20.43	50	0	Left Tilt	0	0.806	1.435	1.157	1.157	0.723	A23	21.3	Ī	
Head	LTE Band 14	10	QPSK	Ε	1302M	1:1	0.12	793.00	23330	0.0	22.0	20.43	50	0	Left Tilt	0	0.731	1.435	1.049	1.049	0.656		21.7	1	
Nata Blue sate sans	LTE Band 14 10 QPSK E 1302M 1:1 0.04 793.00 23330 0.0 22.0 20.43 50																	Head 5 W/kg (mW/g) aged over 1 gran	n						

Table 12-29

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot														49	Back	10	0	0.379	1.109	0.420	0.941	0.588		29.0		
Body-worn/Hotspot														12	Back	10	0	0.303	1.161	0.352	0.992	0.620		28.8		
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	+0.04	793.00	23330	0.0	25.3	24.85	1	49	Front	10	0	0.252	1.109	0.279	0.626	0.391		30.8		
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	+0.03	793.00	23330	1.0	24.3	23.65	25	12	Front	10	0	0.199	1.161	0.231	0.651	0.407		30.6		
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	-0.11	793.00	23330	0.0	25.3	24.85	1	49	Bottom	10	0	0.106	1.109	0.118	0.263	0.164		34.5	28.8	28.8
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	+0.06	793.00	23330	1.0	24.3	23.65	25	12	Bottom	10	0	0.085	1.161	0.099	0.278	0.174		34.3	20.0	20.0
Hotspot	LTE Band 14	10	QPSK	A	1296M	1:1	0.00	793.00	23330	0.0	25.3	24.85	1	49	Right	10	0	0.237	1.109	0.263	0.588	0.368		31.1		
Hotspot	LTE Band 14	10	QPSK	A	1296M	1:1	+0.08	793.00	23330	1.0	24.3	23.65	25	12	Right	10	4	0.141	1.161	0.164	0.461	0.288		32.1		
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	0.11	793.00	23330	0.0	25.3	24.85	1	49	Left	10	0	0.166	1.109	0.184	0.412	0.258		32.6	i	
Hotspot	LTE Band 14	10	QPSK	A	1302M	1:1	+0.10	793.00	23330	1.0	24.3	23.65	25	12	Left	10	0	0.141	1.161	0.164	0.461	0.288		32.1		
	ANS//EEE C95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population																	1.6 W/kg averaged o	g (mW/g)							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPR (dB)	Max Allowed Power [dBm]		RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio	Plot#		Overall Pilmit (dBm)	
Body-worn/Hotspot													1	25	Back	10	0.521	1.300	0.677	0.873	0.546	A24	26.9		-
Body-worn/Hotspot													25	12	Back	10	0.412	1.352	0.557	0.904	0.565		26.8	1	1
Hotspot	LTE Band 14	10	QPSK	E	1302M	1:1	+0.19	793.00	23330	0.0	25.3	24.16	1	25	Front	10	0.556	1.300	0.723	0.931	0.582		26.7	1	
Hotspot	LTE Band 14	10	QPSK	E	1302M	1:1	-0.02	793.00	23330	1.0	24.3	22.99	25	12	Front	10	0.436	1.352	0.589	0.956	0.598		26.5	26.4	26.4
Hotspot	LTE Band 14	10	QPSK	E	1296M	1:1	0.03	793.00	23330	0.0	25.3	24.16	1	25	Top	10	0.549	1.300	0.714	0.920	0.575		26.7	20.4	20.4
Hotspot	LTE Band 14	10	QPSK	E	1296M	1:1	0.03	793.00	23330	1.0	24.3	22.99	25	12	Top	10	0.434	1.352	0.587	0.952	0.595		26.6	1	1
Hotspot	LTE Band 14	10	QPSK	E	1296M	1:1	0.04	793.00	23330	0.0	25.3	24.16	1	25	Right	10	0.570	1.300	0.741	0.955	0.597	A25	26.6	1	
Hotspot	LTE Band 14	10	QPSK	E	1296M	1:1	+0.07	793.00	23330	1.0	24.3	22.99	25	12	Right	10	0.456	1.352	0.617	1.000	0.625		26.4	í l	
	ANS//EEE CYS.1 1992 - SAFETY LIMIT Spatial Peak Hercetrolled Experime (Concerd Boundation															-		Body 6 W/kg (mW/g)		-					

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12.10 LTE Band 26 (Cell) Standalone SAR

Table 12-31

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head															Right Cheek	0	0	0.140	1.132	0.158	0.479	0.299		32.9		_
Head	d LTE Band 26 15 QPSK A 1296M 1:1 0.08 831.50 26865 1.0 24.0 23.														Right Cheek	0	0	0.112	1.211	0.136	0.516	0.323		32.6		
Head	LTE Band 26	15	QPSK	A	1296M	1:1	0.06	831.50	26865	0.0	25.0	24.46	1	36	Right Tilt	0	0	0.069	1.132	0.078	0.236	0.148		36.0		
Head	LTE Band 26	15	QPSK	A	1296M	1:1	-0.15	831.50	26865	1.0	24.0	23.17	36	18	Right Tilt	0	11	0.040	1.211	0.048	0.184	0.115		37.1	32.6	29.8
Head	LTE Band 26	15	QPSK	A	1278M	1:1	0.04	831.50	26865	0.0	25.0	24.46	1	36	Left Cheek	0	11	0.131	1.132	0.148	0.448	0.280		33.2	32.0	29.0
Head	LTE Band 26	15	QPSK	A	1278M	1:1	0.03	831.50	26865	1.0	24.0	23.17	36	18	Left Cheek	0	11	0.090	1.211	0.109	0.414	0.259		33.6		
Head	LTE Band 26	15	QPSK	A	1278M	1:1	0.01	831.50	26865	0.0	25.0	24.46	1	36	Left Tilt	0	11	0.078	1.132	0.088	0.267	0.167		35.5		
Head	LTE Band 26	15	QPSK	A	1278M	1:1	-0.03	831.50	26865	1.0	24.0	23.17	36	18	Left Tilt	0	11	0.056	1.211	0.068	0.258	0.161		35.6		
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												1.6 W/kg	ead g (mW/g) over 1 gram							

Table 12-32

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Head															Right Cheek	0	0.592	1.493	0.884	0.884	0.553		22.5		
Head															Right Cheek	0	0.604	1.462	0.883	0.883	0.552		22.5		
Head	ad LTE Band 26 15 QPSK E 1288M 1:1 -0.07 831.50 26865 0.0 22.0 20.20														Right Cheek	0	0.598	1.514	0.905	0.905	0.566		22.4		
Head	d LTE Band 26 15 QPSK E 1288M 1:1 0.06 831.50 26865 0.0 22.0 20.26														Right Tilt	0	0.487	1.493	0.727	0.727	0.454		23.3		
Head	d LTE Band 26 15 QPSK E 1288M 1:1 -0.21 831.50 26865 0.0 22.0 20.35														Right Tilt	0	0.462	1.462	0.675	0.675	0.422		23.7		
Head															Left Cheek	0	0.674	1.493	1.006	1.006	0.629	A26	21.9	21.9	21.0
Head	LTE Band 26	15	QPSK	E	1302M	1:1	0.05	831.50	26865	0.0	22.0	20.35	36	18	Left Cheek	0	0.647	1.462	0.946	0.946	0.591		22.2		1 1
Head	LTE Band 26	15	QPSK	E	1302M	1:1	0.09	831.50	26865	0.0	22.0	20.20	75	0	Left Cheek	0	0.653	1.514	0.989	0.989	0.618		22.0		
Head	LTE Band 26	15	QPSK	E	1302M	1:1	0.02	831.50	26865	0.0	22.0	20.26	1	36	Left Tilt	0	0.638	1.493	0.953	0.953	0.596		22.2		
Head	LTE Band 26	15	QPSK	E	1302M	1:1	0.06	831.50	26865	0.0	22.0	20.35	36	18	Left Tilt	0	0.622	1.462	0.909	0.909	0.568		22.4		1 1
Head	LTE Band 26	15	QPSK	E	1302M	1:1	0.07	831.50	26865	0.0	22.0	20.20	75	0	Left Tilt	0	0.632	1.514	0.957	0.957	0.598		22.1		
																		Head 6 W/kg (mW/g) raged over 1 gran							

Table 12-33

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot																29.7										
Body-worn/Hotspot	Tr/Hotspot LTE Band 26 15 QPSK A 1296M 1:1 -0.17 831.50 26865 1.0 24.0 23.1													18	Back	10	1	0.227	1.211	0.275	0.830	0.519		29.6		
Hotspot															Front	10	0	0.134	1.132	0.152	0.364	0.228		33.1		
Hotspot	LTE Band 26	15	QPSK	A	1285M	1:1	0.02	831.50	26865	1.0	24.0	23.17	36	18	Front	10	0	0.114	1.211	0.138	0.417	0.261		32.6		
Hotspot	LTE Band 26	15	QPSK	A	1285M	1:1	0.02	831.50	26865	0.0	25.0	24.46	1	36	Bottom	10	0	0.059	1.132	0.067	0.160	0.100		36.7	29.6	28.8
Hotspot	LTE Band 26	15	QPSK	A	1285M	1:1	-0.02	831.50	26865	1.0	24.0	23.17	36	18	Bottom	10	0	0.046	1.211	0.056	0.168	0.105		36.5	29.6	28.8
Hotspot	LTE Band 26	15	QPSK	A	1296M	1:1	+0.15	831.50	26865	0.0	25.0	24.46	1	36	Right	10	0	0.125	1.132	0.142	0.340	0.213		33.4		
Hotspot	LTE Band 26	15	QPSK	A	1296M	1:1	0.08	831.50	26865	1.0	24.0	23.17	36	18	Right	10	0	0.098	1.211	0.119	0.358	0.224		33.2		
Hotspot	LTE Band 26	15	QPSK	A	1285M	1:1	0.03	831.50	26865	0.0	25.0	24.46	1	36	Left	10	0	0.106	1.132	0.120	0.288	0.180		34.2		
Hotspot	LTE Band 26	15	QPSK	A	1285M	1:1	0.03	831.50	26865	1.0	24.0	23.17	36	18	Left	10	0	0.089	1.211	0.108	0.325	0.203		33.6		
																		1.6 W/kg averaged o	g (mW/g)							

Table 12-34

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#		Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot													1	36	Back	10	0.546	1.358	0.741	0.978	0.611	A27	26.2		
Body-worn/Hotspot	totspot LTE Band 26 15 QPSK E 1296M 1:1 -0.05 831.50 26865 1.0 24.0												36	18	Back	10	0.423	1.384	0.585	0.971	0.607		26.3		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	-0.03	831.50	26865	0.0	25.0	23.67	1	36	Front	10	0.504	1.358	0.684	0.903	0.564		26.6		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.05	831.50	26865	1.0	24.0	22.59	36	18	Front	10	0.381	1.384	0.527	0.875	0.547		26.7	26.2	26.2
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	+0.04	831.50	26865	0.0	25.0	23.67	1	36	Тор	10	0.527	1.358	0.716	0.944	0.590		26.4	20.2	20.2
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	-0.01	831.50	26865	1.0	24.0	22.59	36	18	Top	10	0.411	1.384	0.569	0.944	0.590		26.4	i	
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.01	831.50	26865	0.0	25.0	23.67	1	36	Right	10	0.476	1.358	0.646	0.853	0.533		26.8		
Hotspot	LTE Band 26	15	QPSK	E	1296M	1:1	0.05	831.50	26865	1.0	24.0	22.59	36	18	Right	10	0.361	1.384	0.500	0.829	0.518		27.0	1	
	ANS/NEE (95.1 1992 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population														,			Body 5 W/kg (mW/g) aged over 1 gran	n						

12.11 LTE Band 66 (AWS) Standalone SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	LTE Band 66	20	QPSK	A	1266M	1:1	0.11	1720.00	132072	0.0	24.5	23.80	1	50	Right Cheek	0	56	0.115	1.175	0.135	0.257	0.161		33.1		
Head	LTE Band 66	20	QPSK	A	1266M	1:1	0.19	1720.00	132072	1.0	23.5	22.80	50	0	Right Cheek	0	56	0.084	1.175	0.099	0.237	0.148		33.5		
Head	LTE Band 66	20	QPSK	A	1266M	1:1	0.05	1720.00	132072	0.0	24.5	23.80	1	50	Right Tift	0	56	0.096	1.175	0.113	0.215	0.134		33.9		
Head	LTE Band 66	20	QPSK	A	1266M	1:1	-0.02	1720.00	132072	1.0	23.5	22.80	50	0	Right Tilt	0	56	0.075	1.175	0.088	0.211	0.132		34.0	30.7	27.3
Head	LTE Band 66	20	QPSK	A	1252M	1:1	-0.08	1720.00	132072	0.0	24.5	23.80	1	50	Left Cheek	0	56	0.200	1.175	0.235	0.448	0.280		30.7	30.7	27.3
Head	LTE Band 66	20	QPSK	A	1252M	1:1	0.02	1720.00	132072	1.0	23.5	22.80	50	0	Left Cheek	0	56	0.143	1.175	0.168	0.403	0.252		31.2		
Head	LTE Band 66	20	QPSK	A	1252M	1:1	0.12	1720.00	132072	0.0	24.5	23.80	1	50	Left Tilt	0	56	0.079	1.175	0.093	0.177	0.111		34.8		
Head													50	0	Left Tilt	0	56	0.059	1.175	0.069	0.166	0.104		35.0		
	Head																	1.6 W/kg averaged o	g (mW/g)							

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Table 12-36

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number		DATE(OB)	Frequency [MHz]	Channel #			Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	SAR [W/kg]	Factor	Reported 1g SAR [W/kg]	SAR [W/kg]	Ratio (1g SAR)	Plot#	[dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 66	20	QPSK	F	1263M	1:1	-0.02	1720.00	132072	0.0	17.0	15.88	1	0	Right Cheek	0	0.673	1.294	0.871	0.871	0.544		17.5		i l
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.08	1745.00	132322	0.0	17.0	15.66	1	50	Right Cheek	0	0.542	1.361	0.738	0.738	0.461		18.3		í l
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.11	1770.00	132572	0.0	17.0	15.82	1 50	0	Right Cheek	0	0.539	1.312	0.707	0.707	0.442		18.5		í l
Head	ad LTE Band 66 20 QPSK F 1263M 1:1 0.06 1745.00 132322 0.0 17.0 15.6														Right Cheek	0	0.680	1.288	0.876	0.876	0.548		17.5		í l
Head	ead LTE Band 66 20 QPSK F 1263M 1:1 0.06 1745.00 132322 0.0 17.0													0	Right Cheek	0	0.557	1.380	0.769	0.769	0.481		18.1		i
Head	ad LTE Band 66 20 QPSK F 1263M 1:1 0.03 1770.00 132572 0.0 17.0 11														Right Cheek	0	0.545	1.358	0.740	0.740	0.463		18.3		í l
Head	ad LTE Band 66 20 QPSK F 1263M 1:1 0.08 1720.00 132072 0.0 17.0 15.83														Right Cheek	0	0.585	1.309	0.766	0.766	0.479		18.1		i l
Head	H LTE Band 66 20 QPSK F 1265M 1:1 0.08 1720.00 132072 0.0 17.0 15.83 LTE Band 66 20 QPSK F 1265M 1:1 0.03 1720.00 132072 0.0 17.0 15.83														Right Tilt	0	0.740	1.294	0.958	0.958	0.599		17.1		í l
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.04	1745.00	132322	0.0	17.0	15.66	1	50	Right Tilt	0	0.695	1.361	0.946	0.946	0.591		17.2	17.0	16.0
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.05	1770.00	132572	0.0	17.0	15.82	1	0	Right Tilt	0	0.647	1.312	0.849	0.849	0.531		17.7	17.0	10.0
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.00	1720.00	132072	0.0	17.0	15.90	50	0	Right Tilt	0	0.748	1.288	0.963	0.963	0.602	A28	17.1		i
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1745.00	132322	0.0	17.0	15.60	50	0	Right Tilt	0	0.698	1.380	0.963	0.963	0.602		17.1		i l
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.04	1770.00	132572	0.0	17.0	15.67	50	0	Right Tilt	0	0.669	1.358	0.909	0.909	0.568		17.4		i l
Head	LTE Band 66	20	QPSK	F	1263M	1:1	0.05	1720.00	132072	0.0	17.0	15.83	100	0	Right Tilt	0	0.747	1.309	0.978	0.978	0.611		17.0		i
Head	LTE Band 66	20	QPSK	F	1252M	1:1	0.01	1720.00	132072	0.0	17.0	15.88	1	0	Left Cheek	0	0.468	1.294	0.606	0.606	0.379		19.1		i l
Head	LTE Band 66	20	QPSK	F	1252M	1:1	-0.01	1720.00	132072	0.0	17.0	15.90	50	0	Left Cheek	0	0.482	1.288	0.621	0.621	0.388		19.0		i l
Head	LTE Band 66	20	QPSK	F	1252M	1:1	0.01	1720.00	132072	0.0	17.0	15.88	1	0	Left Tilt	0	0.556	1.294	0.719	0.719	0.449		18.4		i
Head	LTE Band 66	20	QPSK	F	1252M	1:1	-0.01	1720.00	132072	0.0	17.0	15.90	50	0	Left Tilt	0	0.541	1.288	0.697	0.697	0.436		18.5		
					SI/IEEE C95.1 195 Spatial rolled Exposure,	Peak												Head W/kg (mW/g) aged over 1 gra							

Table 12-37

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]		Plot#	Plimit	Overall Plimit (dBm)	
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.08	1720.00	132072	0.0	19.5	18.92	1	0	Back	10	55	0.528	1.143	0.604	0.604	0.378	A29	21.6		
Body-worn/Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	-0.01	1720.00	132072	0.0	19.5	18.82	50	0	Back	10	55	0.517	1.169	0.604	0.604	0.378		21.6	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	-0.19	1720.00	132072	0.0	19.5	18.92	1 50	0	Front	10	33	0.400	1.143	0.457	0.457	0.286		22.8	1	i l
Hotspot	Hotspot LTE Band 66 20 QPSK A 1252M 1:1 0.18 1720.00 132072 0.0 19.5 18.8														Front	10	33	0.391	1.169	0.457	0.457	0.286		22.8	1 1	i l
Hotspot	otspot LTE Band 66 20 QPSK A 1252M 1:1 -0.03 1720.00 132072 0.0 19.5 18.92														Bottom	10	55	0.735	1.143	0.840	0.840	0.525		20.2	1 1	i l
Hotspot	pot LTE Band 66 20 QPSK A 1252M 1:1 0.00 1745.00 132322 0.0 19.5 18.43														Bottom	10	55	0.737	1.279	0.943	0.943	0.589		19.7	1 1	i l
Hotspot	Opport LTE Band 66 20 OPSK A 1252M 1:1 0.00 1745.00 132322 0.0 19.5 18.43 upot LTE Band 66 20 OPSK A 1252M 1:1 0.02 1770.00 132572 0.0 19.5 18.57														Bottom	10	55	0.783	1.239	0.970	0.970	0.606	A30	19.6	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	-0.01	1720.00	132072	0.0	19.5	18.82	50	0	Bottom	10	55	0.733	1.169	0.857	0.857	0.536		20.1	19.6	18.5
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	-0.03	1745.00	132322	0.0	19.5	18.55	50	0	Bottom	10	55	0.775	1.245	0.965	0.965	0.603		19.6	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.01	1770.00	132572	0.0	19.5	18.53	50	0	Bottom	10	33	0.738	1.250	0.923	0.923	0.577		19.8	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.01	1720.00	132072	0.0	19.5	18.77	100	0	Bottom	10	55	0.752	1.183	0.890	0.890	0.556		20.0	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.06	1720.00	132072	0.0	19.5	18.92	1	0	Right	10	56	0.090	1.143	0.103	0.103	0.064		29.3	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.03	1720.00	132072	0.0	19.5	18.82	50	0	Right	10	56	0.085	1.169	0.099	0.099	0.062		29.5	1 1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	-0.10	1720.00	132072	0.0	19.5	18.92	1	0	Left	10	33	0.107	1.143	0.122	0.122	0.076		28.6	1	i l
Hotspot	LTE Band 66	20	QPSK	A	1252M	1:1	0.01	1720.00	132072	0.0	19.5	18.82	50	0	Left	10	33	0.107	1.169	0.125	0.125	0.078		28.5	-	
					ISI/IEEE C95.1 19 Spatial strolled Exposure	Peak												Bo 1.6 W/kg averaged o	(mW/g)							

Table 12-38

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/hotspot	rm/hotspot LTE Band 66 20 QPSK F 1263M 1:1 -0.04 1720.00 132072 0.0 21.0 20.23														Back	10	0.307	1.202	0.369	0.369	0.231		25.3		
Body-worn/hotspot	otspot LTE Band 66 20 QPSK F 1263M 1:1 -0.04 1720.00 132072 0.0 21.0 20.23														Back	10	0.327	1.194	0.390	0.390	0.244		25.0		
Hotspot	hotspot LTE Band 66 20 QPSK F 1263M 1:1 -0.04 1720.00 132072 0.0 21.0 20.23 5 ot LTE Band 66 20 QPSK F 1263M 1:1 0.10 1720.00 132072 0.0 21.0 20.20														Front	10	0.224	1.202	0.269	0.269	0.168		26.6		i I
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.14	1720.00	132072	0.0	21.0	20.23	50	0	Front	10	0.228	1.194	0.272	0.272	0.170		26.6	22.7	20.0
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.02	1720.00	132072	0.0	21.0	20.20	1	50	Тор	10	0.552	1.202	0.664	0.664	0.415		22.7	22.7	20.0
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	0.03	1720.00	132072	0.0	21.0	20.23	50	0	Top	10	0.540	1.194	0.645	0.645	0.403		22.9		i I
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	+0.06	1720.00	132072	0.0	21.0	20.20	1	50	Left	10	0.172	1.202	0.207	0.207	0.129		27.8		
Hotspot	LTE Band 66	20	QPSK	F	1263M	1:1	+0.03	1720.00	132072	0.0	21.0	20.23	50	0	Left	10	0.176	1.194	0.210	0.210	0.131		27.7		
					ISI/IEEE C95.1 199 Spatial ntrolled Exposure	Peak												Body 5 W/kg (mW/g) aged over 1 gran							

12.12 LTE Band 25 (PCS) Standalone SAR

Table 12-39

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	LTE Band 25 20 QPSK A 1266M 1:1 0.04 1860.00 26140 0.0 24.5 24.25 1 LTE Band 25 20 QPSK A 1266M 1:1 0.12 1860.00 26140 1.0 23.5 23.12 50															0	0	0.099	1.059	0.105	0.282	0.176		34.2		
Head	LTE Band 25 20 QPSK A 1266M 1:1 -0.12 1860.00 26140 1.0 23.5 23.12 50															0	0	0.075	1.091	0.082	0.277	0.173		34.3		
Head	LTE Band 25 20 QPSK A 1266M 1:1 -0.04 1860.00 26140 0.0 24.5 24.25 1														Right Tilt	0	0	0.064	1.059	0.068	0.182	0.114		36.1		
Head	LTE Band 25 20 QPSK A 1266M 1:1 -0.04 1860.00 26140 0.0 24.5 24.25 1 LTE Band 25 20 QPSK A 1266M 1:1 0.09 1860.00 26140 1.0 23.5 23.12 50															0	0	0.040	1.091	0.044	0.148	0.093		37.0	32.2	28.8
Head	LTE Band 25	20	QPSK	A	1252M	1:1	0.03	1860.00	26140	0.0	24.5	24.25	1	0	Left Cheek	0	1	0.157	1.059	0.166	0.448	0.280		32.2	32.2	20.0
Head	LTE Band 25	20	QPSK	A	1252M	1:1	-0.04	1860.00	26140	1.0	23.5	23.12	50	25	Left Cheek	0	1	0.119	1.091	0.130	0.440	0.275		32.3		1
Head	LTE Band 25	20	QPSK	A	1252M	1:1	-0.04	1860.00	26140	0.0	24.5	24.25	1	0	Left Tilt	0	1	0.049	1.059	0.052	0.140	0.088		37.3		
Head	LTE Band 25	20	QPSK	A	1252M	1:1	0.11	1860.00	26140	1.0	23.5	23.12	50	25	Left Tilt	0	1	0.045	1.091	0.049	0.166	0.104		36.5		
					SI/IEEE C95.1 19 Spatial ntrolled Exposure	Peak												He 1.6 W/kg averaged o	(mW/g)							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]			Plot#	Plimit [dBm]	Overall Plimit [dBm]	Plimit
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.07	1860.00	26140	0.0	19.0	18.21	1	0	Right Cheek	0	0.892	1.199	1.070	1.070	0.669		18.7		
Head	LTE Band 25	20	QPSK	F	1263M	1:1	0.03	1882.50	26365	0.0	19.0	18.13	1	50	Right Cheek	0	0.850	1.222	1.039	1.039	0.649		18.8	l	
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.11	1905.00	26590	0.0	19.0	18.19	1	0	Right Cheek	0	0.827	1.205	0.997	0.997	0.623		19.0	I	
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.01	1860.00	26140	0.0	19.0	18.19	50 50	25	Right Cheek	0	0.869	1.205	1.047	1.047	0.654		18.7	I	
Head	ead LTE Band 25 20 QPSK F 1263M 1:1 -0.02 1905.00 26590 0.0 19.0 18.02														Right Cheek	0	0.873	1.213	1.059	1.059	0.662		18.7	I	
Head	ead LTE Band 25 20 QPSK F 1263M 1-1 -0.02 1905.00 26590 0.0 19.0 18.02 ead LTE Band 25 20 QPSK F 1263M 1-1 0.05 1882.50 26365 0.0 19.0 18.17														Right Cheek	0	0.821	1.253	1.029	1.029	0.643		18.8	l	
Head	ad LTE Band 25 20 QPSK F 1263M 1:1 0.05 1882:50 26365 0.0 19.0 18.17 1														Right Cheek	0	0.838	1.211	1.015	1.015	0.634		18.9	I	
Head	d LTE Band 25 20 QPSK F 1263M 1:1 0.05 1882.50 26365 0.0 19.0 18.17 10 d LTE Band 25 20 QPSK F 1263M 1:1 0.02 1860.00 26140 0.0 19.0 18.21 1														Right Tilt	0	0.918	1.199	1.101	1.101	0.688	A31	18.5	I	
Head	LTE Band 25 20 QPSK F 1263M 1:1 0.02 1860.00 26140 0.0 19.0 18.21 1														Right Tilt	0	0.884	1.199	1.060	1.060	0.663		18.7	18.5	18.0
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.02	1882.50	26365	0.0	19.0	18.13	1	50	Right Tilt	0	0.872	1.222	1.066	1.066	0.666		18.7	10.5	18.0
Head	LTE Band 25	20	QPSK	F	1263M	1:1	0.00	1905.00	26590	0.0	19.0	18.19	1	0	Right Tilt	0	0.836	1.205	1.007	1.007	0.629		18.9	I	
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.02	1860.00	26140	0.0	19.0	18.19	50	25	Right Tilt	0	0.897	1.205	1.081	1.081	0.676		18.6		
Head	LTE Band 25	20	QPSK	F	1263M	1:1	0.02	1882.50	26365	0.0	19.0	18.16	50	25	Right Tilt	0	0.890	1.213	1.080	1.080	0.675		18.6	I	
Head	LTE Band 25	20	QPSK	F	1263M	1:1	0.04	1905.00	26590	0.0	19.0	18.02	50	0	Right Tilt	0	0.858	1.253	1.075	1.075	0.672		18.6	I	
Head	LTE Band 25	20	QPSK	F	1263M	1:1	-0.02	1882.50	26365	0.0	19.0	18.17	100	0	Right Tilt	0	0.885	1.211	1.072	1.072	0.670		18.7	l	
Head	LTE Band 25	20	QPSK	F	1252M	1:1	0.06	1860.00	26140	0.0	19.0	18.21	1	0	Left Cheek	0	0.483	1.199	0.579	0.579	0.362		21.3	l	
Head	LTE Band 25	20	QPSK	F	1252M	1:1	0.00	1860.00	26140	0.0	19.0	18.19	50	25	Left Cheek	0	0.493	1.205	0.594	0.594	0.371		21.2	l	
Head	LTE Band 25	20	QPSK	F	1252M	1:1	0.04	1860.00	26140	0.0	19.0	18.21	1	0	Left Tilt	0	0.506	1.199	0.607	0.607	0.379		21.1		
					SI/IEEE C95.1 199 Spatial trolled Exposure	Peak												Head W/kg (mW/g) aged over 1 gran							

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Table 12-41

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scalling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	pot LTE Band 25 20 QPSK A 1252M 1:1 -0.02 1860.00 26140 0.0 19.0 18.38 50															10	0	0.353	1.138	0.402	0.402	0.251	A32	22.9		
Body-worn/Hotspot	worn/Hotspot LTE Band 25 20 QPSK A 1252M 1:1 -0.02 1860.00 26140 0.0 19.0														Back	10	0	0.343	1.153	0.395	0.395	0.247		23.0	i	i l
Hotspot	Hotspot LTE Band 25 20 QPSK A 1252M 1:1 -0.02 1860.00 26140 0.0 19.0 18.44														Front	10	1	0.332	1.138	0.378	0.378	0.236		23.2	i	i l
Hotspot	pot: LTE Band 25 20 QPSK A 1252M 1:1 -0.02 1860.00 26140 0.0 19.0 18.44 pot: LTE Band 25 20 QPSK A 1252M 1:1 -0.18 1860.00 26140 0.0 19.0 18.38														Front	10	1	0.321	1.153	0.370	0.370	0.231		23.3	i	i l
Hotspot	LTE Band 25 20 QPSK A 1252M 1:1 -0.18 1860.00 26140 0.0 19.0 18.38														Bottom	10	0	0.623	1.138	0.709	0.709	0.443		20.4	20.4	18.0
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.01	1860.00	26140	0.0	19.0	18.38	50	25	Bottom	10	0	0.611	1.153	0.704	0.704	0.440		20.5	20.4	10.0
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.09	1860.00	26140	0.0	19.0	18.44	1	0	Right	10	0	0.063	1.138	0.072	0.072	0.045		30.4	l	i l
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	0.18	1860.00	26140	0.0	19.0	18.38	50	25	Right	10	0	0.056	1.153	0.065	0.065	0.041		30.8	l	i l
Hotspot	LTE Band 25	20	QPSK	A	1252M	1:1	-0.19	1860.00	26140	0.0	19.0	18.44	1	0	Left	10	0	0.062	1.138	0.071	0.071	0.044		30.5	l	i l
Hotspot															Left	10	0	0.054	1.153	0.062	0.062	0.039		31.0		i
					SI/IEEE C95.1 19 Spatial trolled Exposure	Peak												1.6 W/kg averaged o	(mW/g)							

Table 12-42

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number		(dB)	Frequency [MHz]			Max Allowed Power (dBm)	Power [dBm]	RB Size	RB Offset	Test Position					Adjusted 1g SAR [W/kg]		Plot#		Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	+0.05	1882.50	26365	0.0	21.0	20.23	1	0	Back	10	0.321	1.194	0.383	0.383	0.239		25.1		
Body-worn/Hotspot															Back	10	0.320	1.211	0.388	0.388	0.243		25.1		1
Hotspot	tspot LTE Band 25 20 QPSK F 1263M 1:1 -0.05 1882.50 26365 0.0 21.0 20.23														Front	10	0.227	1.194	0.271	0.271	0.169		26.6		1 1
Hotspot	t LTE Band 25 20 QPSK F 1263M 1:1 -0.13 1882.50 26365 0.0 21.0 20.17 50															10	0.222	1.211	0.269	0.269	0.168		26.7		1
Hotspot	pot LTE Band 25 20 QPSK F 1263M 1:1 -0.13 1882:50 26365 0.0 21.0 20.17 : pot LTE Band 25 20 QPSK F 1263M 1:1 -0.03 1860:00 26140 0.0 21.0 20.20														Top	10	0.631	1.202	0.758	0.758	0.474		22.1		1 1
Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	0.00	1882.50	26365	0.0	21.0	20.23	1	0	Тор	10	0.682	1.194	0.814	0.814	0.509	A33	21.8	21.8	20.0
Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	-0.01	1905.00	26590	0.0	21.0	19.96	1	0	Тор	10	0.589	1.271	0.749	0.749	0.468		22.2		1 1
Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	-0.02	1882.50	26365	0.0	21.0	20.17	50	25	Тор	10	0.648	1.211	0.785	0.785	0.491		22.0		1 1
Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	-0.01	1860.00	26140	0.0	21.0	20.15	100	0	Тор	10	0.641	1.216	0.779	0.779	0.487		22.0		1 1
Hotspot	LTE Band 25	20	QPSK	F	1263M	1:1	-0.08	1882.50	26365	0.0	21.0	20.23	1	0	Left	10	0.169	1.194	0.202	0.202	0.126		27.9		1
Hotspot															Left	10	0.158	1.211	0.191	0.191	0.119		28.1		1 1
					SI/IEEE C95.1 199 Spatial strolled Exposure	Peak												Body 5 W/kg (mW/g) aged over 1 gran	1						

12.13 LTE Band 30 Standalone SAR

Table 12-43

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head															Right Cheek	0	0.007	1.069	0.007	0.101	0.063		44.7		
Head	d LTE Band 30 10 QPSK A 1278M 1:1 -0.20 2310.00 27710 1.0 22.5 22.07 2														Right Cheek	0	0.009	1.104	0.010	0.169	0.106		42.5		
Head	nd LTE Band 30 10 QPSK A 1278M 1:1 0.20 2310.00 27710 1:0 22.5 22.07 2 nd LTE Band 30 10 QPSK A 1278M 1:1 0.04 2310.00 27710 0.0 23.5 23.21														Right Tilt	0	0.012	1.069	0.013	0.173	0.108		42.4		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.02	2310.00	27710	1.0	22.5	22.07	25	0	Right Tilt	0	0.012	1.104	0.013	0.225	0.141		41.2	38.4	34.8
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.03	2310.00	27710	0.0	23.5	23.21	1	25	Left Cheek	0	0.016	1.069	0.017	0.231	0.144		41.1	30.4	34.0
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.01	2310.00	27710	1.0	22.5	22.07	25	0	Left Cheek	0	0.012	1.104	0.013	0.225	0.141		41.2		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.03	2310.00	27710	0.0	23.5	23.21	1	25	Left Tilt	0	0.030	1.069	0.032	0.433	0.271		38.4		
Head	LTE Band 30	10	QPSK	A	1278M	1:1	0.05	2310.00	27710	1.0	22.5	22.07	25	0	Left Tilt	0	0.023	1.104	0.025	0.431	0.269		38.4		
					SI/IEEE C95.1 19 Spatial strolled Exposure	Peak												Head W/kg (mW/g) aged over 1 gran	n						

Table 12-44

Exposure Rand / Mode Rand / Rand	
Field TER-Bord 30	nit Plimit
Need	
Head	
Nead UT Band 30	
Head UT Band 30 10 0F9K F 1278M 1:1 0:01 2210:00 27710 0:0 17.5 16.00 25 0 Right lit 0 0.78 1.28 0.921 0.931 0	
Read UTB Bard 20	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	2 16.5
	2 16.5
Nave ITERand 20 10 ORGY E 1279M 1-1 0.01 2210.00 27710 0.0 17.5 16.60 25 0 left (heak 0 0.52 1.230 0.654 0.654 0.604 0.409 19.2	
Head LTE Band 30 10 QPSK F 1278M 1:1 0.02 2310.00 27710 0.0 17.5 16.56 1 49 Left Tilt 0 0.829 1.242 1.030 1.030 0.644 17.3	
Head LTE Band 30 10 QPSK F 1278M 1:1 0.01 2310.00 27710 0.0 17.5 16.60 25 0 Left Tilt 0 0.823 1.230 1.012 1.012 0.633 17.4	
Head LTE Band 30 10 QPSK F 1278M 1:1 0.02 2310.00 27710 0.0 17.5 16.55 50 0 Left Tilt 0 0.772 1.245 0.961 0.961 0.601 17.6	
Ansylete (Sch. 1992 - SAFET WAIT Spatial Park Spatial Park Uncontrolled Exposure/General Population Averaged over 1 gram More Rise active reconvents writibility measurement	

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot#	[ditimal]	Overall Plimit [dBm]	Plimit
Body-worn/Hotspot	LTE Band 30	10	QPSK	A	1302M	1:1	0.01	2310.00	27710	0.0	20.0	19.52	1	25	Back	10	0.223	1.117	0.249	0.249	0.156		26.0		
Body-worn/Hotspot	Hotspot LTE Band 30 10 QPSK A 1302M 1:1 0.00 2310.00 27710 0.0 20.0 19.41														Back	10	0.223	1.146	0.256	0.256	0.160		25.9		
Hotspot	LTE Band 30 10 QPSK A 1285M 1:1 0.01 2310.00 27710 0.0 20.0 19.52														Front	10	0.209	1.117	0.233	0.233	0.146		26.3		
Hotspot	LTE Band 30 10 QPSK A 1285M 1:1 0.16 2310.00 27710 0.0 20.0 19.41														Front	10	0.204	1.146	0.234	0.234	0.146		26.3		
Hotspot															Bottom	10	0.540	1.117	0.603	0.603	0.377	A35	22.1	22.1	19.0
Hotspot	LTE Band 30	10	QPSK	A	1285M	1:1	0.00	2310.00	27710	0.0	20.0	19.41	25	0	Bottom	10	0.533	1.146	0.611	0.611	0.382		22.1	22.1	15.0
Hotspot	LTE Band 30	10	QPSK	A	1285M	1:1	0.05	2310.00	27710	0.0	20.0	19.52	1	25	Right	10	0.083	1.117	0.093	0.093	0.058		30.3		
Hotspot	LTE Band 30	10	QPSK	A	1285M	1:1	-0.11	2310.00	27710	0.0	20.0	19.41	25	0	Right	10	0.083	1.146	0.095	0.095	0.059		30.2		
Hotspot	LTE Band 30	10	QPSK	A	1285M	1:1	-0.13	2310.00	27710	0.0	20.0	19.52	1	25	Left	10	0.080	1.117	0.089	0.089	0.056		30.4		
Hotspot	LTE Band 30	10	QPSK	A	1285M	1:1	-0.10	2310.00	27710	0.0	20.0	19.41	25	0	Left	10	0.077	1.146	0.088	0.088	0.055		30.5		
					SI/IEEE C95.1 195 Spatial rolled Exposure,	Peak												Body W/kg (mW/g) aged over 1 gran	n						

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit		
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.12	2310.00	27710	0.0	19.0	18.19	1	25	Back	10	0.245	1.205	0.295	0.295	0.184	A36	24.2		
Body-worn/Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.14	2310.00	27710	0.0	19.0	18.17	25	12	Back	10	0.245	1.211	0.297	0.297	0.186		24.2		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.05	2310.00	27710	0.0	19.0	18.19	1	25	Front	10	0.189	1.205	0.228	0.228	0.143		25.4		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.10	2310.00	27710	0.0	19.0	18.17	25	12	Front	10	0.187	1.211	0.226	0.226	0.141		25.4	22.3	18.0
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.09	2310.00	27710	0.0	19.0	18.19	1	25	Top	10	0.378	1.205	0.455	0.455	0.284		22.4	22.5	10.0
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.01	2310.00	27710	0.0	19.0	18.17	25	12	Top	10	0.379	1.211	0.459	0.459	0.287		22.3		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	-0.10	2310.00	27710	0.0	19.0	18.19	1	25	Left	10	0.036	1.205	0.043	0.043	0.027		32.6		
Hotspot	LTE Band 30	10	QPSK	F	1285M	1:1	0.09	2310.00	27710	0.0	19.0	18.17	25	12	Left	10	0.035	1.211	0.042	0.042	0.026		32.7		
					SI/IEEE C95.1 195 Spatial rolled Exposure,	Peak												Body W/kg (mW/g) aged over 1 gra							

12.14 LTE Band 7 Standalone SAR

Table 12-47

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	(dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power [dBm]	Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	SAR [W/kg]		SAR [W/kg]	Adjusted 1g SAR [W/kg]	(1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 7	20	QPSK	В	1278M	1:1	0.05	2510.00	20850	0.0	24.0	23.68	1	50	Right Cheek	0	0.026	1.076	0.028	0.147	0.092		39.5		
Head	LTE Band 7	20	QPSK	В	1278M	1:1	+0.15	2510.00	20850	1.0	23.0	22.93	50	0	Right Cheek	0	0.023	1.016	0.023	0.154	0.096		39.3		1 1
Head	LTE Band 7	20	QPSK	В	1278M	1:1	-0.06	2510.00	20850	0.0	24.0	23.68	1	50	Right Tilt	0	0.010	1.076	0.011	0.056	0.035		43.6		1 1
Head	LTE Band 7	20	QPSK	В	1278M	1:1	-0.03	2510.00	20850	1.0	23.0	22.93	50	0	Right Tilt	0	0.009	1.016	0.009	0.060	0.038		43.3	34.6	31.2
Head	LTE Band 7	20	QPSK	В	1278M	1:1	0.02	2510.00	20850	0.0	24.0	23.68	1	50	Left Cheek	0	0.072	1.076	0.077	0.407	0.254		35.1	34.0	31.2
Head	LTE Band 7	20	QPSK	В	1278M	1:1	0.08	2510.00	20850	1.0	23.0	22.93	50	0	Left Cheek	0	0.067	1.016	0.068	0.450	0.281		34.6		1
Head	LTE Band 7	20	QPSK	В	1278M	1:1	-0.07	2510.00	20850	0.0	24.0	23.68	1	50	Left Tilt	0	0.027	1.076	0.029	0.153	0.096		39.3		1 1
Head	LTE Band 7	20	QPSK	В	1278M	1:1	0.15	2510.00	20850	1.0	23.0	22.93	50	0	Left Tilt	0	0.019	1.016	0.019	0.128	0.080		40.1		1 1
					ISI/IEEE C95.1 199 Spatial ntrolled Exposure	Peak												Head 6 W/kg (mW/g) raged over 1 gran							

Table 12-48

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 7	20	QPSK	F	1278M	1:1	0.02	2510.00	20850	0.0	16.5	16.18	1	0	Right Cheek	0	0.570	1.076	0.613	0.613	0.383		18.6		
Head	LTE Band 7	20	QPSK	F	1278M	1:1	0.00	2510.00	20850	0.0	16.5	16.19	50	0	Right Cheek	0	0.569	1.074	0.611	0.611	0.382		18.6		
Head	LTE Band 7	20	QPSK	F	1278M	1:1	-0.01	2510.00	20850	0.0	16.5	16.18	1	0	Right Tilt	0	0.631	1.076	0.679	0.679	0.424	A37	18.1		
Head	LTE Band 7	20	QPSK	F	1278M	1:1	-0.03	2510.00	20850	0.0	16.5	16.19	50	0	Right Tilt	0	0.630	1.074	0.677	0.677	0.423		18.1	18.1	15.5
Head	LTE Band 7	20	QPSK	F	1294M	1:1	0.01	2510.00	20850	0.0	16.5	16.18	1	0	Left Cheek	0	0.261	1.076	0.281	0.281	0.176		22.0	10.1	13.3
Head	LTE Band 7	20	QPSK	F	1294M	1:1	0.04	2510.00	20850	0.0	16.5	16.19	50	0	Left Cheek	0	0.264	1.074	0.284	0.284	0.178		21.9		
Head	LTE Band 7	20	QPSK	F	1294M	1:1	0.08	2510.00	20850	0.0	16.5	16.18	1	0	Left Tilt	0	0.410	1.076	0.441	0.441	0.276		20.0		
Head	LTE Band 7	20	QPSK	F	1294M	1:1	0.04	2510.00	20850	0.0	16.5	16.19	50	0	Left Tilt	0	0.409	1.074	0.439	0.439	0.274		20.0		
					ISI/IEEE C95.1 19: Spatial ntrolled Exposure	Peak												Head 6 W/kg (mW/g) raged over 1 gran							

Table 12-49

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 7	20	QPSK	В	1302M	1:1	+0.10	2510.00	20850	0.0	20.0	19.69	1	50	Back	10	0.221	1.074	0.237	0.237	0.148		26.2		
Body-worn/Hotspot	LTE Band 7	20	QPSK	В	1302M	1:1	0.09	2510.00	20850	0.0	20.0	19.73	50	0	Back	10	0.215	1.064	0.229	0.229	0.143		26.4		r l
Hotspot	LTE Band 7	20	QPSK	В	1302M	1:1	-0.04	2510.00	20850	0.0	20.0	19.69	1	50	Front	10	0.138	1.074	0.148	0.148	0.093		28.2		
Hotspot	LTE Band 7	20	QPSK	В	1302M	1:1	0.09	2510.00	20850	0.0	20.0	19.73	50	0	Front	10	0.134	1.064	0.143	0.143	0.089		28.4		
Hotspot	LTE Band 7	20	QPSK	В	1285M	1:1	+0.05	2510.00	20850	0.0	20.0	19.69	1	50	Bottom	10	0.183	1.074	0.197	0.197	0.123		27.0	25.8	19.0
Hotspot	LTE Band 7	20	QPSK	В	1285M	1:1	0.03	2510.00	20850	0.0	20.0	19.73	50	0	Bottom	10	0.181	1.064	0.193	0.193	0.121		27.1		1
Hotspot	LTE Band 7	20	QPSK	В	1285M	1:1	-0.04	2510.00	20850	0.0	20.0	19.69	1	50	Left	10	0.244	1.074	0.262	0.262	0.164		25.8		1
Hotspot	LTE Band 7	20	QPSK	В	1285M	1:1	-0.04	2510.00	20850	0.0	20.0	19.73	50	0	Left	10	0.239	1.064	0.254	0.254	0.159		25.9		
					SI/IEEE C95.1 19 Spatial ntrolled Exposure	Peak												Body 6 W/kg (mW/g) raged over 1 gran							

Table 12-50

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	-0.06	2535.00	21100	0.0	18.0	16.95	1	50	Back	10	0.275	1.274	0.350	0.350	0.219		22.5		
Body-worn/Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.07	2535.00	21100	0.0	18.0	16.95	50	0	Back	10	0.278	1.274	0.354	0.354	0.221	A38	22.5		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.14	2535.00	21100	0.0	18.0	16.95	1	50	Front	10	0.184	1.274	0.234	0.234	0.146		24.3		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.17	2535.00	21100	0.0	18.0	16.95	50	0	Front	10	0.182	1.274	0.232	0.232	0.145		24.3	21.2	17.0
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.05	2535.00	21100	0.0	18.0	16.95	1	50	Тор	10	0.369	1.274	0.470	0.470	0.294	A39	21.2	21.2	17.0
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	+0.05	2535.00	21100	0.0	18.0	16.95	50	0	Тор	10	0.354	1.274	0.451	0.451	0.282		21.4		
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	0.03	2535.00	21100	0.0	18.0	16.95	1	50	Left	10	0.041	1.274	0.052	0.052	0.033		30.8		1 1
Hotspot	LTE Band 7	20	QPSK	F	1285M	1:1	-0.01	2535.00	21100	0.0	18.0	16.95	50	0	Left	10	0.041	1.274	0.052	0.052	0.033		30.8		
					SI/IEEE C95.1 199 Spatial I trolled Exposure,	Peak												Body 5 W/kg (mW/g) aged over 1 gran	n						

12.15 LTE Band 41 Standalone SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	+0.02	2636.50	41055	0.0	21.4	21.32	1	0	Right Cheek	0	0.011	1.019	0.011	0.011	0.007		38.9		
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.04	2636.50	41055	0.0	21.4	21.38	50	0	Right Cheek	0	0.008	1.005	0.008	0.008	0.005		40.3		
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.03	2636.50	41055	0.0	21.4	21.32	1	0	Right Tilt	0	0.005	1.019	0.005	0.005	0.003		42.3		
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.01	2636.50	41055	0.0	21.4	21.38	50	0	Right Tilt	0	0.004	1.005	0.004	0.004	0.003		43.3		18.4
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.18	2636.50	41055	0.0	21.4	21.32	1	0	Left Cheek	0	0.020	1.019	0.020	0.020	0.013		36.3	30.1	10.4
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.04	2636.50	41055	0.0	21.4	21.38	50	0	Left Cheek	0	0.021	1.005	0.021	0.021	0.013		36.1		
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.01	2636.50	41055	0.0	21.4	21.32	1	0	Left Tilt	0	0.003	1.019	0.003	0.003	0.002		44.5		
Head	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.03	2636.50	41055	0.0	21.4	21.38	50	0	Left Tilt	0	0.004	1.005	0.004	0.004	0.003		43.3		
					SI/IEEE C95.1 199 Spatial ntrolled Exposure	Peak												Head 5 W/kg (mW/g) aged over 1 gran	n						

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Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	MPR [dB]	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.06	2506.00	39750	0.0	17.5	16.82	1	99	Right Cheek	0	0.372	1.169	0.435	0.435	0.272	A40	19.1		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.02	2506.00	39750	0.0	17.5	16.80	50	50	Right Cheek	0	0.364	1.175	0.428	0.428	0.268		19.2		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	17.5	16.82	1	99	Right Tilt	0	0.371	1.169	0.434	0.434	0.271		19.1		i I
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	17.5	16.80	50	50	Right Tilt	0	0.365	1.175	0.429	0.429	0.268		19.1	19.1	14.5
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.04	2506.00	39750	0.0	17.5	16.82	1	99	Left Cheek	0	0.129	1.169	0.151	0.151	0.094		23.7	19.1	14.5
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.08	2506.00	39750	0.0	17.5	16.80	50	50	Left Cheek	0	0.127	1.175	0.149	0.149	0.093		23.7		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.01	2506.00	39750	0.0	17.5	16.82	1	99	Left Tilt	0	0.197	1.169	0.230	0.230	0.144		21.8		
Head	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.02	2506.00	39750	0.0	17.5	16.80	50	50	Left Tilt	0	0.192	1.175	0.226	0.226	0.141		21.9		1
					SI/IEEE C95.1 199 Spatial I ntrolled Exposure,	Peak												Head 5 W/kg (mW/g) aged over 1 gran							

Table 12-53

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	-0.03	2636.50	41055	0.0	22.0	21.84	1	0	Back	10	0.193	1.038	0.200	0.200	0.125	A41	27.0		
Body-worn/Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	-0.02	2636.50	41055	0.0	22.0	21.90	50	0	Back	10	0.192	1.023	0.196	0.196	0.123		27.0		
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.07	2636.50	41055	0.0	22.0	21.84	1	0	Front	10	0.100	1.038	0.104	0.104	0.065		29.8		
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.02	2636.50	41055	0.0	22.0	21.90	50	0	Front	10	0.100	1.023	0.102	0.102	0.064		29.9	26.1	19.0
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.03	2636.50	41055	0.0	22.0	21.84	1	0	Bottom	10	0.170	1.038	0.176	0.176	0.110		27.5	20.1	19.0
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.00	2636.50	41055	0.0	22.0	21.90	50	0	Bottom	10	0.173	1.023	0.177	0.177	0.111		27.5		
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	-0.02	2636.50	41055	0.0	22.0	21.84	1	0	Left	10	0.237	1.038	0.246	0.246	0.154	A42	26.1		
Hotspot	LTE Band 41	20	QPSK	В	1294M	1:1.58	0.06	2636.50	41055	0.0	22.0	21.90	50	0	Left	10	0.234	1.023	0.239	0.239	0.149		26.2	ĺ	1 1
					SI/IEEE C95.1 199 Spatial I strolled Exposure,	Peak												Body 5 W/kg (mW/g) aged over 1 gran	n						

Table 12-54

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR [dB]	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.08	2506.00	39750	0.0	19.0	18.33	1	99	Back	10	0.112	1.167	0.131	0.131	0.082		25.8		
Body-worn/Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.00	2506.00	39750	0.0	19.0	18.32	50	50	Back	10	0.119	1.169	0.139	0.139	0.087		25.5		1 1
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.18	2506.00	39750	0.0	19.0	18.33	1	99	Front	10	0.080	1.167	0.093	0.093	0.058		27.3		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	-0.05	2506.00	39750	0.0	19.0	18.32	50	50	Front	10	0.085	1.169	0.099	0.099	0.062		27.0	25.5	16.0
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.33	1	99	Top	10	0.101	1.167	0.118	0.118	0.074		26.3	25.5	16.0
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.05	2506.00	39750	0.0	19.0	18.32	50	50	Тор	10	0.112	1.169	0.131	0.131	0.082		25.8		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.03	2506.00	39750	0.0	19.0	18.33	1	99	Left	10	0.015	1.167	0.018	0.018	0.011		34.5		
Hotspot	LTE Band 41	20	QPSK	F	1294M	1:1.58	0.08	2506.00	39750	0.0	19.0	18.32	50	50	Left	10	0.015	1.169	0.018	0.018	0.011		34.5		1 1
					SI/IEEE C95.1 19 Spatial ntrolled Exposure	Peak												Body 6 W/kg (mW/g) raged over 1 gran							

12.16 LTE Band 48 Standalone SAR

Table 12-55

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]		Channel #	MPR (dB)	Power [dBm]	Power [dBm]	RB Size	RB Offset		Spacing [mm]	Add'l Info	Measured 1g SAR [W/kg]			Adjusted 1g SAR [W/kg]	Ratio (1g SAR)	Plot#	(dBm)	Overall Plimit [dBm]	Plimit
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.06	3690.00	56640	0.0	15.5	15.31	1	50	Right Cheek	0	N/A	0.422	1.045	0.441	0.441	0.276		17.0		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.11	3690.00	56640	0.0	15.5	15.34	50	25	Right Cheek	0	N/A	0.431	1.038	0.447	0.447	0.279		17.0	,	
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.06	3690.00	56640	0.0	15.5	15.31	1	50	Right Tilt	0	N/A	0.496	1.045	0.518	0.518	0.324		16.3	,	
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.05	3690.00	56640	0.0	15.5	15.34	50	25	Right Til t	0	N/A	0.506	1.038	0.525	0.525	0.328		16.3		
Head	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.02	3690.00	56640	0.0	15.5	15.21	50	0	Right Tilt	0	N/A	0.505	1.069	0.540	0.540	0.338		16.1		
Head	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.04	3690.00	56640	0.0	15.5	15.31	1	50	Left Cheek	0	N/A	0.244	1.045	0.255	0.255	0.159		19.4	16.0	12.5
Head	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.04	3690.00	56640	0.0	15.5	15.34	50	25	Left Cheek	0	N/A	0.251	1.038	0.261	0.261	0.163		19.3	,	
Head	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.04	3690.00	56640	0.0	15.5	15.31	1	50	Left Tilt	0	N/A	0.326	1.045	0.341	0.341	0.213		18.1		
Head	LTE Band 48	20	QPSK	F	1263	1:1.58	0.03	3690.00	56640	0.0	15.5	15.34	50	25	Left Tilt	0	N/A	0.337	1.038	0.350	0.350	0.219		18.0		
Head	LTE Band 48	20	OPSK	-	1252M	1:1.58	-0.02	3690.00	56640	0.0	15.5	15.42	50	0	Right Tilt	0	ULCA 48C	0.545	1.019	0.555	0.555	0.347	A43	16.0		
neau	LIE Ballu 46	20	QF3K	٠.	1232141	1.1.30	10.02	3670.20	56442	u.o	13.3	15.42	50	50	rugiit iiit		ULCA 48C	0.545	1.019	0.333	0.555	0.547	H43	16.0		
					SI/IEEE C95.1 19 Spatial trolled Exposure	Peak												Hear 1.6 W/kg (averaged ov	mW/g)							

Table 12-56

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	MPR (dB)	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Add'l Info	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.05	3646.70	56207	0.0	19.5	19.45	1	99	Back	10	N/A	0.225	1.012	0.228	0.228	0.143		23.9		
Body-worn/Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.01	3646.70	56207	0.0	19.5	19.50	50	25	Back	10	N/A	0.235	1.000	0.235	0.235	0.147	A44	23.8		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	0.01	3646.70	56207	0.0	19.5	19.45	1	99	Front	10	N/A	0.182	1.012	0.184	0.184	0.115		24.8		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	-0.01	3646.70	56207	0.0	19.5	19.50	50	25	Front	10	N/A	0.187	1.000	0.187	0.187	0.117		24.7		
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.01	3646.70	56207	0.0	19.5	19.45	1	99	Top	10	N/A	0.301	1.012	0.305	0.305	0.191		22.6		
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	-0.03	3646.70	56207	0.0	19.5	19.50	50	25	Top	10	N/A	0.315	1.000	0.315	0.315	0.197	A45	22.5	22.5	16.5
Hotspot	LTE Band 48	20	QPSK	F	1252M	1:1.58	0.09	3646.70	56207	0.0	19.5	19.42	50	0	Top	10	N/A	0.310	1.019	0.316	0.316	0.198		22.5		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	+0.10	3646.70	56207	0.0	19.5	19.45	1	99	Left	10	N/A	0.069	1.012	0.070	0.070	0.044		29.0		
Hotspot	LTE Band 48	20	QPSK	F	1263M	1:1.58	+0.12	3646.70	56207	0.0	19.5	19.50	50	25	Left	10	N/A	0.068	1.000	0.068	0.068	0.043		29.1		
Hotspot	LTE Band 48	20	OPSK	-	1252M	1:1.58	0.02	3646.70	56207	0.0	19.5	19.45	50	0	Тор	10	ULCA 48C	0.313	1.012	0.317	0.317	0.198		22.5		
- intspot	CIC DAIIU 46	20	G/3K					3626.90	56009	3.0	49.3	23.46	50	50	.op	20	OLCA 46C			0.317	0.317	0.198		44.3		
				AN	ISI/IEEE C95.1 19		LIMIT							I				Bod								
					Spatial									I				1.6 W/kg (
				Uncon	trolled Exposure	e/General Po	pulation											averaged ov	er 1 gram							

12.17 NR Band n71 Standalone SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [d8m]	FS Plimit [dBm]
Head	NR Band n71	35	QPSK	A	1266M	1:1	0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Right Cheek	0	٥	0.106	1.148	0.122	0.485	0.303		34.1		
Head	NR Band n71	35	QPSK	A	1266M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Right Cheek	0	0	0.110	1.178	0.130	0.516	0.323		33.8		
Head	NR Band n71	35	QPSK	A	1266M	1:1	-0.02	680.50	136100	CP-OFDM	1.5	23.5	22.70	1	1	Right Cheek	0	0	0.066	1.202	0.079	0.446	0.279		34.5		
Head	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50		DFT-s-OFDM	0.0	25.0	24.40	1	94	Right Tilt	0	0	0.019	1.148	0.022	0.087	0.054		41.6		
Head	NR Band n71	35	QPSK	A	1288M	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Right Tilt	0	0	0.017	1.178	0.020	0.080	0.050		41.9	33.8	31.0
Head	NR Band n71	35	QPSK	A	1288M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Left Cheek	0	0	0.034	1.148	0.039	0.155	0.097		39.0		
Head	NR Band n71	35	QPSK	A	1288M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Left Cheek	0	0	0.037	1.178	0.044	0.173	0.108		38.6		
Head	NR Band n71	35	QPSK	A	1288M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Left Tilt	0	0	0.015	1.148	0.017	0.069	0.043		42.6		
Head	NR Band n71	35	QPSK	A	1288M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Left Tilt	0	0	0.015	1.178	0.018	0.070	0.044		42.5		
					ANSI/IEEE I	C95.1 1992 - S Spatial Peak Exposure/Ger		on											1.6 W/kg averaged o	(mW/g)							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	19.0	17.63	1	185	Right Cheek	0	0.154	1.371	0.211	0.211	0.132		25.7		
Head	NR Band n71	35	QPSK	E	1255M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.0	17.59	90	49	Right Cheek	0	0.202	1.384	0.280	0.280	0.175		24.5		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	19.0	17.63	1	186	Right Tilt	0	0.133	1.371	0.182	0.182	0.114		26.3		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	19.0	17.59	90	49	Right Tilt	0	0.161	1.384	0.223	0.223	0.139		25.5		1 1
Head	NR Band n71	35	QPSK	E	1255M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.0	17.63	1	186	Left Cheek	0	0.193	1.371	0.265	0.265	0.166		24.7	23.3	18.0
Head	NR Band n71	35	QPSK	E	1255M	1:1	0.00	680.50	136100	DFT-s-OFDM	0.0	19.0	17.59	90	49	Left Cheek	0	0.259	1.384	0.358	0.358	0.224	A46	23.4		1 1
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.15	680.50	136100	CP-OFDM	0.0	19.0	17.35	1	1	Left Cheek	0	0.249	1.462	0.364	0.364	0.228		23.3		1 1
Head	NR Band n71	35	QPSK	E	1255M	1:1	0.02	680.50	136100	DFT-s-OFDM	0.0	19.0	17.63	1	186	Left Tilt	0	0.178	1.371	0.244	0.244	0.153		25.1		
Head	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	19.0	17.59	90	49	Left Tilt	0	0.215	1.384	0.298	0.298	0.186		24.2		1 1
					ANSI/IEEE O	Spatial Peak													Head 6 W/kg (mW/g) raged over 1 gran	n						

Table 12-59

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [d8m]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Back	10	0	0.331	1.148	0.380	0.831	0.519		29.2		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Back	10	11	0.308	1.178	0.363	0.793	0.496		29.4		
Body-worn/Hotspot	NR Band n71	35	QPSK	A	1255M	1:1	-0.18	680.50	136100	CP-OFDM	1.5	23.5	22.70	1	1	Back	10	11	0.150	1.202	0.180	0.557	0.348		30.9		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.04	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Front	10	0	0.068	1.148	0.078	0.171	0.107		36.0		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.01	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Front	10	0	0.069	1.178	0.081	0.178	0.111		35.9		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	0.05	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Bottom	10	0	0.041	1.148	0.047	0.103	0.064		38.2	29.2	28.4
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Bottom	10	0	0.042	1.178	0.049	0.108	0.068		38.0		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Right	10	0	0.050	1.148	0.057	0.126	0.079		37.4		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Right	10	0	0.049	1.178	0.058	0.126	0.079		37.3		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.40	1	94	Left	10	0	0.056	1.148	0.064	0.141	880.0		36.9		
Hotspot	NR Band n71	35	QPSK	A	1288M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.29	90	49	Left	10	0	0.065	1.178	0.077	0.167	0.104		36.1		
						Spatial Peak		on		·										ody g (mW/g) over 1 gram							

Table 12-60

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	0.12	680.50	136100	DFT-s-OFDM	0.0	25.0	24.07	1	186	Back	10	0.415	1.239	0.514	0.914	0.571		27.8		
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.12	680.50	136100	DFT-s-OFDM	0.0	25.0	23.94	90	49	Back	10	0.438	1.276	0.559	0.994	0.621	A47	27.5		
Body-worn/Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.01	680.50	136100	CP-OFDM	1.5	23.5	22.20	1	1	Back	10	0.268	1.349	0.362	0.908	0.568		27.9		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	24.07	1	186	Front	10	0.283	1.239	0.351	0.623	0.389		29.5		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.11	680.50	136100	DFT-s-OFDM	0.0	25.0	23.94	90	49	Front	10	0.302	1.276	0.385	0.686	0.429		29.1	27.5	27.5
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	0.07	680.50	136100	DFT-s-OFDM	0.0	25.0	24.07	1	186	Тор	10	0.310	1.239	0.384	0.683	0.427		29.1		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.02	680.50	136100	DFT-s-OFDM	0.0	25.0	23.94	90	49	Тор	10	0.329	1.276	0.420	0.747	0.467		28.7		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.06	680.50	136100	DFT-s-OFDM	0.0	25.0	24.07	1	186	Right	10	0.318	1.239	0.394	0.701	0.438		29.0		
Hotspot	NR Band n71	35	QPSK	E	1255M	1:1	-0.03	680.50	136100	DFT-s-OFDM	0.0	25.0	23.94	90	49	Right	10	0.333	1.276	0.425	0.756	0.473		28.7		
					ANSI/IEEE I	Spatial Peak Exposure/Ger		ion											Body W/kg (mW/g) aged over 1 gran	,						

12.18 NR Band n12 Standalone SAR

Table 12-61

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[d8]			Waveform				RB Size	RB Offset		Spacing [mm]		SAR [W/kg]		SAR [W/kg]	SAR [W/kg]	(1g SAR)	Plot #	[d8m]	Overall Plimit [dBm]	FS Plimit [dBm]
Head	NR Band n12	15	QPSK	A	1252M	1:1	0.09	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Right Cheek	0	- 1	0.108	1.146	0.124	0.481	0.301		34.3		
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Right Cheek	0	1	0.106	1.208	0.128	0.498	0.311		34.2	- 1	
Head	NR Band n12	15	QPSK	A	1252M	1:1	-0.04	707.50	141500	CP-OFDM	1.5	23.8	23.53	1	1	Right Cheek	0	1	0.076	1.064	0.081	0.444	0.278		34.7		
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.01	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Right Tilt	0	0	0.030	1.146	0.034	0.134	0.084		39.9	- 1	
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Right Tilt	0	0	0.023	1.208	0.028	0.108	0.068		40.8	34.2	31.2
Head	NR Band n12	15	QPSK	A	1288M	1:1	-0.19	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Left Cheek	0	0	0.041	1.146	0.047	0.183	0.114		38.5	- 1	
Head	NR Band n12	15	QPSK	A	1288M	1:1	-0.12	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Left Cheek	0	0	0.042	1.208	0.051	0.197	0.123		38.2		
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.19	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Left Tilt	0	0	0.022	1.146	0.025	0.098	0.061		41.2	- 1	
Head	NR Band n12	15	QPSK	A	1288M	1:1	0.16	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Left Tilt	0	0	0.023	1.208	0.028	0.108	0.068		40.8		
					ANSI/IEEE O	Spatial Peak		on												rad g (mW/g) over 1 gram							

Table 12-62

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.08	707.50	141500	DFT-s-OFDM	0.0	22.0	20.79	1	1	Right Cheek	0	0.476	1.321	0.629	0.629	0.393		24.0		
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.91	36	22	Right Cheek	0	0.480	1.285	0.617	0.617	0.386		24.0		1 1
Head	NR Band n12	15	QPSK	E	1255M	1:1	-0.01	707.50		DFT-s-OFDM	0.0	22.0	20.79	1	1	Right Tilt	0	0.387	1.321	0.511	0.511	0.319		24.9		i l
Head	NR Band n12	15	QPSK	Е	1255M	1:1	-0.04	707.50		DFT-s-OFDM	0.0	22.0	20.91	36	22	Right Tilt	0	0.398	1.285	0.511	0.511	0.319		24.9		1 1
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.11	707.50		DFT-s-OFDM	0.0	22.0	20.79	1	1	Left Cheek	0	0.599	1.321	0.791	0.791	0.494		23.0	22.9	21.0
Head	NR Band n12	15	QPSK	E	1255M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	22.0	20.91	36	22	Left Cheek	0	0.596	1.285	0.766	0.766	0.479		23.1		1 1
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.10	707.50	141500	CP-OFDM	0.0	22.0	20.90	1	1	Left Cheek	0	0.630	1.288	0.811	0.811	0.507	A48	22.9		1 1
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.03	707.50		DFT-s-OFDM	0.0	22.0	20.79	1	1	Left Tilt	0	0.539	1.321	0.712	0.712	0.445		23.4		i l
Head	NR Band n12	15	QPSK	E	1255M	1:1	0.05	707.50	141500	DFT-s-OFDM	0.0	22.0	20.91	36	22	Left Tilt	0	0.550	1.285	0.707	0.707	0.442		23.5		
						95.1 1992 - S Spatial Peak xposure/Gen		on											Head 5 W/kg (mW/g) aged over 1 gran	1						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.		Duty Cycle	[d8]	Frequency [MHz]	Channel #	Waveform		Max Allowed Power [dBm]	Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	SAR [W/kg]	Power Scaling Factor	SAK [W/kg]	SAR [W/kg]	(1g SAK)	Plot #	[d8m]	Overall Plimit [dBm]	
Body-worn/Hotspot	NR Band n12	15	QPSK	A	1252M	1:1	-0.03	707.50		DFT-s-OFDM	0.0	25.3	24.71	1	1	Back	10	1	0.358	1.146	0.410	0.877	0.548		29.1		
Body-worn/Hotspot	NR Band n12	15	QPSK	A	1252M	1:1	0.03	707.50		DFT-s-OFDM	0.0	25.3	24.48	36	22	Back	10	1	0.383	1.208	0.463	0.989	0.618		28.6		1
Body-worn/Hotspot	NR Band n12	15	QPSK	A	1252M	1:1	-0.04	707.50	141500	CP-OFDM	1.5	23.8	23.53	1	1	Back	10	1	0.260	1.064	0.277	0.836	0.523		29.3		1
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	0.04	707.50	141500	DFT-s-OFDM	0.0	25.3	24.71	1	1	Front	10	- 1	0.079	1.146	0.091	0.193	0.121		35.7		1
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	0.00	707.50		DFT-s-OFDM	0.0	25.3	24.48	36	22	Front	10	1	0.079	1.208	0.095	0.204	0.128		35.5		1
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	0.07	707.50		DFT-s-OFDM	0.0	25.3	24.71	1	1	Bottom	10	1	0.054	1.146	0.062	0.132	0.083		37.3	28.6	28.6
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	-0.08	707.50		DFT-s-OFDM	0.0	25.3	24.48	36	22	Bottom	10	1	0.058	1.208	0.070	0.150	0.094		36.8		1
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	0.14	707.50		DFT-s-OFDM	0.0	25.3	24.71	1	1	Right	10	0	0.054	1.146	0.062	0.132	0.083		37.3		
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	-0.06	707.50		DFT-s-OFDM	0.0	25.3	24.48	36	22	Right	10	0	0.054	1.208	0.065	0.139	0.087		37.1		
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	-0.01	707.50		DFT-s-OFDM	0.0	25.3	24.71	1	1	Left	10	0	0.057	1.146	0.065	0.140	0.088		37.1		
Hotspot	NR Band n12	15	QPSK	A	1288M	1:1	-0.01	707.50	141500	DFT-s-OFDM	0.0	25.3	24.48	36	22	Left	10	0	0.051	1.208	0.062	0.132	0.083		37.4		
					ANSI/IEEE	Spatial Peak		on											1.6 W/kg averaged o	(mW/g)							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.11	707.50		DFT-s-OFDM	0.0	25.3	24.37	1	40	Back	10	0.347	1.239	0.430	0.838	0.524		28.9		
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.09	707.50	141500	DFT-s-OFDM	0.0	25.3	24.18	36	22	Back	10	0.357	1.294	0.462	0.901	0.563	A49	28.6		í l
Body-worn/Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	0.01	707.50	141500	CP-OFDM	1.5	23.8	22.61	1	1	Back	10	0.256	1.315	0.337	0.927	0.579		28.5		í l
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	0.02	707.50		DFT-s-OFDM	0.0	25.3	24.37	1	40	Front	10	0.300	1.239	0.372	0.725	0.453		29.5		í l
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.04	707.50	141500	DFT-s-OFDM	0.0	25.3	24.18	36	22	Front	10	0.295	1.294	0.382	0.744	0.465		29.4	28.5	28.2
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.3	24.37	1	40	Top	10	0.246	1.239	0.305	0.594	0.371		30.4		í l
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.02	707.50	141500	DFT-s-OFDM	0.0	25.3	24.18	36	22	Top	10	0.228	1.294	0.295	0.575	0.359		30.6		í l
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.16	707.50	141500	DFT-s-OFDM	0.0	25.3	24.37	1	40	Right	10	0.295	1.239	0.366	0.712	0.445		29.6		í l
Hotspot	NR Band n12	15	QPSK	E	1255M	1:1	-0.03	707.50	141500	DFT-s-OFDM	0.0	25.3	24.18	36	22	Right	10	0.297	1.294	0.384	0.749	0.468		29.4		i
						Spatial Peak xposure/Ger		ion											Body W/kg (mW/g) iged over 1 gran	,						

12.19 NR Band n14 Standalone SAR

Table 12-65

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	PS Plimit [dBm]
Head	NR Band n14	10	QPSK	A	1288M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	24.32	1	26	Right Cheek	0	0	0.053	1.169	0.062	0.516	0.323		37.0		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Right Cheek	0	0	0.053	1.194	0.063	0.526	0.329		36.9		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.15	793.00	158600	CP-OFDM	1.5	23.5	22.76	1	1	Right Cheek	0	0	0.033	1.186	0.039	0.460	0.288		37.5		
Head	NR Band n14	10	QPSK	A	1288M	1:1	0.09	793.00	158600	DFT-s-OFDM	0.0	25.0	24.32	1	26	Right Tilt	0	0	0.020	1.169	0.023	0.195	0.122		41.3		
Head	NR Band n14	10	QPSK	A	1288M	1:1	0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Right Tilt	0	0	0.019	1.194	0.023	0.189	0.118		41.4	36.9	34.2
Head	NR Band n14	10	QPSK	A	1288M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left Cheek	0	0	0.026	1.169	0.030	0.253	0.158		40.1		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.05	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Left Cheek	0	0	0.026	1.194	0.031	0.258	0.161		40.0		
Head	NR Band n14	10	QPSK	A	1288M	1:1	0.12	793.00	158600	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left Tilt	0	0	0.016	1.169	0.019	0.156	0.098		42.2		
Head	NR Band n14	10	QPSK	A	1288M	1:1	-0.12	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Left Tilt	0	0	0.016	1.194	0.019	0.159	0.099		42.1		
					ANSI/IEEE O	Spatial Peak		on											1.6 W/kg averaged o	g (mW/g)							

Table 12-66

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number		(dB)	Frequency [MHz]	Channel #		MPR (GB)	Max Allowed Power [dBm]	Power [dBm]	RB Size	RB Offset		Spacing [mm]					Exposure Ratio (1g SAR)	Plot #		Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n14	10	QPSK	E	1255M	1:1	0.06	793.00	158600	DFT-s-OFDM	0.0	22.0	20.55	1	26	Right Cheek	0	0.571	1.396	0.797	0.797	0.498		22.9		
Head	NR Band n14	10	QPSK	E	1255M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	22.0	20.44	25	0	Right Cheek	0	0.567	1.432	0.812	0.812	0.508		22.9		
Head	NR Band n14	10	QPSK	E	1255M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	22.0	20.40	50	0	Right Cheek	0	0.567	1.445	0.819	0.819	0.512		22.8		
Head	NR Band n14	10	QPSK	Е	1255M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	22.0	20.55	1	26	Right Tilt	0	0.521	1.396	0.727	0.727	0.454		23.3		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	22.0	20.44	25	0	Right Tilt	0	0.488	1.432	0.699	0.699	0.437		23.5		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	22.0	20.55	1	26	Left Cheek	0	0.685	1.396	0.956	0.956	0.598		22.1	21.7	21.0
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.44	25	0	Left Cheek	0	0.706	1.432	1.011	1.011	0.632		21.9	21.7	21.0
Head	NR Band n14	10	QPSK	E	1255M	1:1	0.01	793.00	158600	DFT-s-OFDM	0.0	22.0	20.40	50	0	Left Cheek	0	0.720	1.445	1.040	1.040	0.650		21.8		
Head	NR Band n14	10	QPSK	E	1255M	1:1	0.08	793.00	158600	DFT-s-OFDM	0.0	22.0	20.55	1	26	Left Tilt	0	0.653	1.396	0.912	0.912	0.570		22.4		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	22.0	20.44	25	0	Left Tilt	0	0.652	1.432	0.934	0.934	0.584		22.2		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.08	793.00	158600	DFT-s-OFDM	0.0	22.0	20.40	50	0	Left Tilt	0	0.727	1.445	1.051	1.051	0.657	A50	21.7		
Head	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158600	CP-OFDM	0.0	22.0	20.51	1	1	Left Tilt	0	0.706	1.409	0.995	0.995	0.622		22.0		
					ANSI/IEEE Uncontrolled	Spatial Peal		ion											Head W/kg (mW/g) aged over 1 gran	n						

Table 12-67

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]		Measured 1g SAR [W/kg]		Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	0.09	793.00		DFT-s-OFDM	0.0	25.0	24.32	1	26	Back	10	33	0.049	1.169	0.057	0.134	0.084		37.4		
Body-worn/Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.04	793.00		DFT-s-OFDM	0.0	25.0	24.23	25	14	Back	10	33	0.048	1.194	0.057	0.134	0.084		37.4		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.08	793.00		DFT-s-OFDM	0.0	25.0	24.32	1	26			0					0.153		34.8		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.02	793.00		DFT-s-OFDM	0.0	25.0	24.23	25	14			1					0.158		34.6		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.07	793.00		DFT-s-OFDM	0.0	25.0	24.32	1	26	Bottom	10	1	0.038	1.169	0.044	0.104	0.065		38.5		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.06	793.00		DFT-s-OFDM	0.0	25.0	24.23	25 14 Back 10 33 0.048 1194 0.057 0.134 1 25 Front 10 0 0.089 1169 0.104 0.044 1 25 14 Front 10 1 0.090 1194 0.107 0.252											38.4	33.7	28.7
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.17	793.00		DFT-s-OFDM	0.0	25.0	24.32	1	26	Right	10	1	0.108	1.169	0.126	0.296	0.185		33.9		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	0.03	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Right	10	1	0.106	1.194	0.127	0.297	0.186		33.9		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	0.14	793.00	158600	CP-OFDM	1.5	23.5	22.76	1	1	Right	10	0	0.080	1.186	0.095	0.314	0.196		33.7		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	-0.17	793.00	158600	DFT-s-OFDM	0.0	25.0	24.32	1	26	Left	10	0	0.060	1.169	0.070	0.165	0.103		36.5		i l
Hotspot	NR Band n14	10	QPSK	A	1278M	1:1	0.00	793.00	158600	DFT-s-OFDM	0.0	25.0	24.23	25	14	Left	10	0	0.061	1.194	0.073	0.171	0.107		36.3		i
					ANSI/IEEE I	Spatial Peak Exposure/Ger		on											1.6 W/kg averaged o	(mW/g)							

Table 12-68

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.73	1	1	Back	10	0.467	1.340	0.626	0.947	0.592		27.0		
Body-worn/Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.04	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Back	10	0.502	1.312	0.659	0.997	0.623	A51	26.8		1
Body-worn/Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.12	793.00	158600	CP-OFDM	1.5	23.5	22.29	1	1	Back	10	0.315	1.321	0.416	0.890	0.556		27.3		1
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.11	793.00	158600	DFT-s-OFDM	0.0	25.0	23.73	1	1	Front	10	0.401	1.340	0.537	0.813	0.508		27.6		1
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.03	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Front	10	0.416	1.312	0.546	0.826	0.516		27.6	26.8	26.8
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	23.73	1	1	Top	10	0.411	1.340	0.551	0.834	0.521		27.5		1
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Тор	10	0.440	1.312	0.577	0.874	0.546		27.3		1
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.01	793.00	158600	DFT-s-OFDM	0.0	25.0	23.73	1	1	Right	10	0.453	1.340	0.607	0.919	0.574		27.1		1
Hotspot	NR Band n14	10	QPSK	E	1255M	1:1	-0.02	793.00	158600	DFT-s-OFDM	0.0	25.0	23.82	25	14	Right	10	0.455	1.312	0.597	0.904	0.565		27.2		1
					ANSI/IEEE I	Spatial Peak Exposure/Ger		on											Body W/kg (mW/g) aged over 1 gran	n						

12.20 NR Band n26 Standalone SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[d8]			Waveform				RB Size			Spacing [mm]	Tune state						Plot #		Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.17	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Right Cheek	0	0	0.059	1.259	0.074	0.526	0.329		36.2		
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Right Cheek	0	0	0.055	1.274	0.070	0.496	0.310		36.5		
Head	NR Band n26	20	QPSK	A	1288M	1:1	0.03	831.50	166300	CP-OFDM	1.5	23.5	22.54	1	1	Right Cheek	0	0	0.034	1.247	0.042	0.424	0.265		37.2		
Head	NR Band n26	20	QPSK	A	1288M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Right Tilt	0	0	0.024	1.259	0.030	0.214	0.134		40.1		
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.12	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Right Tilt	0	0	0.025	1.274	0.032	0.225	0.141		39.9	36.2	33.5
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.18	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Left Cheek	0	0	0.037	1.259	0.047	0.330	0.206		38.3		
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Left Cheek	0	0	0.044	1.274	0.056	0.397	0.248		37.5		
Head	NR Band n26	20	QPSK	A	1288M	1:1	0.09	831.50		DFT-s-OFDM	0.0	25.0	24.00	1	104	Left Tilt	0	0	0.019	1.259	0.024	0.169	0.106		41.2		
Head	NR Band n26	20	QPSK	A	1288M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Left Tilt	0	0	0.029	1.274	0.037	0.261	0.163		39.3		
						Spatial Peak xposure/Ger													1.6 W/kj averaged o	g (mW/g)							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.33	1	1	Right Cheek	0	0.600	1.469	0.881	0.881	0.551		22.5		
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.02	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Right Cheek	0	0.586	1.486	0.871	0.871	0.544		22.6		i
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.19	831.50	166300	DFT-s-OFDM	0.0	22.0	20.21	100	0	Right Cheek	0	0.574	1.510	0.867	0.867	0.542		22.6		i
Head	NR Band n26	20														22.6		i I								
Head	NR Band n26	20														22.7		i I								
Head	NR Band n26	NR Bandrids 20 OPK E 1255M 11 001 815.09 164500 OPF-0FM 00 22.0 22.0 22.8 50 28 Rejet TE 0 0.557 1.486 0.841 0.89 Related 5 20 OPK E 1255M 11 0.00 815.09 164500 OPF-0FM 00 22.0 25.11 500 0 Rejet TE 0 0.552 1.50 0.859														0.850	0.531		22.7		i I					
Head	NR Bandroids 20 GPK E 1255M 11 0.00 E31.50 16620 DT-6-070M 0.0 22.0 20.21 100 0 RghtTR 0 0.551 1.510 NR Bandroids 20 GPK E 1255M 11 0.00 E31.50 16620 DT-6-070M 0.0 22.0 20.31 1 1 Left Cheek 0 0.551 1.510 NR Bandroids 20 GPK E 1255M 11 0.06 E31.50 16620 DT-6-070M 0.0 22.0 20.33 1 1 Left Cheek 0 0.576 1.469 NR Bandroids 20 GPK E 1255M 11 0.08 E31.50 16620 DT-6-070M 0.0 22.0 20.32 50 28 Left Cheek 0 0.679 1.468 NR Bandroids 20 GPK E 1255M 11 0.08 E31.50 16620 DT-6-070M 0.0 22.0 20.32 150 0 Left Cheek 0 0.679 1.468 NR Bandroids 20 GPK E 1255M 11 0.08 E31.50 16620 DT-6-070M 0.0 22.0 20.32 150 0 Left Cheek 0 0.679 1.510																		21.7	21.4	21.0					
Head	NR Bandn25 20 QPSK E 1255M 1:1 Q.06 831.50 165000 DFT-GPGM Q.0 2.2.0 20. NB Bandn26 20 QPSK E 1255M 1:1 Q.01 831.50 165000 DFT-GPGM Q.0 2.2.0 20. NB Bandn265 20 QPSK E 1255M 1:1 Q.01 831.50 165000 DFT-GPGM Q.0 2.2.0 20. NB Bandn265 20 QPSK E 1255M 1:1 Q.03 831.50 165000 DFT-GPGM Q.0 2.2.0 20.														28		0				0.996	0.623		22.0		i I
Head				E		1:1								100	0		0			1.136	1.136	0.710	A52	21.4		i I
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.06	831.50	166300	CP-OFDM	0.0	22.0	20.28	1	1	Left Cheek	0	0.740	1.486	1.100	1.100	0.688		21.5		i l
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.09	831.50	166300	DFT-s-OFDM	0.0	22.0	20.33	1	1	Left Tilt	0	0.645	1.469	0.948	0.948	0.593		22.2		i I
Head	NR Band n26	20	QPSK	E	1255M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	22.0	20.28	50	28	Left Tilt	0	0.641	1.486	0.953	0.953	0.596		22.2		i l
Head	NR Band n26	20	QPSK	E	1255M	1:1	-0.14	831.50	166300	DFT-s-OFDM	0.0	22.0	20.21	100	0	Left Tilt	0	0.694	1.510	1.048	1.048	0.655		21.7		i l
					ANSI/IEEE 0	Spatial Peak													Head 6 W/kg (mW/g) aged over 1 gran	1						

Table 12-71

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number		[d8]				мик (ав)	Max Allowed Power [dBm]	Power [dBm]	RB Size		Test Position		Tune state		Power Scaling Factor				Plot #		Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot														29.3													
Body-worn/Hotspot	pot NR Band n26 20 QPSX A 1288M 1:1 4-0.01 831:50 1669:00 DFT-G-OFDM 0.0 25.0 23.95 50 28 Back 10 0 0.226 1274 0.364 0.663 0.414 22														29.3		i l										
Body-worn/Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.04	831.50	166300	CP-OFDM	1.5	23.5	22.54	1	1	Back	10	1	0.073	1.247	0.091	0.234	0.146		33.9		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.08	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Front	10	1	0.058	1.259	0.073	0.133	0.083		36.3		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.17	831.50	166300	DFT-s-OFDM		25.0	23.95	50	28	Front	10	1	0.060	1.274	0.076	0.139	0.087		36.1		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.18	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Bottom	10	1	0.023	1.259	0.029	0.053	0.033		40.3	29.3	27.6
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.12	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Bottom	10	1	0.023	1.274	0.029	0.053	0.033		40.3		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Right	10	1	0.063	1.259	0.079	0.144	0.090		36.0		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	-0.10	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Right	10	1	0.067	1.274	0.085	0.155	0.097		35.6		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	24.00	1	104	Left	10	1	0.051	1.259	0.064	0.117	0.073		36.9		i l
Hotspot	NR Band n26	20	QPSK	A	1288M	1:1	0.06	831.50	166300	DFT-s-OFDM	0.0	25.0	23.95	50	28	Left	10	1	0.054	1.274	0.069	0.125	0.078		36.6		i e
						Spatial Peak														ody g (mW/g) over 1 gram							

Table 12-72

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Back	10	0.530	1.393	0.738	0.888	0.555		26.3		
Body-worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Back	10	0.580	1.403	0.814	0.978	0.611	A53	25.8		
Body-worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.08	831.50	166300	DFT-s-OFDM	1.0	24.0	22.57	100	0	Back	10	0.440	1.390	0.612	0.926	0.579		26.1		
Body-worn/Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.05	831.50	166300	CP-OFDM	1.5	23.5	22.07	1	1	Back	10	0.386	1.390	0.537	0.911	0.569		26.2		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.11	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Front	10	0.481	1.393	0.670	0.806	0.504		26.7	25.8	25.8
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.01	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Front	10	0.528	1.403	0.741	0.891	0.557		26.3	25.0	25.0
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.04	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Тор	10	0.328	1.393	0.457	0.549	0.343		28.4		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Тор	10	0.259	1.403	0.363	0.437	0.273		29.3		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	-0.03	831.50	166300	DFT-s-OFDM	0.0	25.0	23.56	1	104	Right	10	0.377	1.393	0.525	0.631	0.394		27.7		
Hotspot	NR Band n26	20	QPSK	E	1255M	1:1	0.02	831.50	166300	DFT-s-OFDM	0.0	25.0	23.53	50	28	Right	10	0.444	1.403	0.623	0.749	0.468		27.0		
						Spatial Peak		on											Body W/kg (mW/g) iged over 1 gran	,						

12.21 NR Band n70 Standalone SAR

Table 12-73

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR (W/kg)	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n70	15	QPSK	A	1266M	1:1	+0.06	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Right Cheek	0	55	0.069	1.132	0.078	0.220	0.138		35.0		
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.18	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.54	36	22	Right Cheek	0	55	0.065	1.112	0.072	0.204	0.128		35.4		i l
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Right Tilt	0	55	0.051	1.132	0.058	0.163	0.102		36.3		i I
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.54	36	22	Right Tilt	0	55	0.051	1.112	0.057	0.160	0.100		36.4		i l
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Left Cheek	0	55	0.139	1.132	0.157	0.444	0.278		32.0	32.0	28.5
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.54	36	22	Left Cheek	0	55	0.133	1.112	0.148	0.417	0.261		32.3		i l
Head	NR Band n70	15	QPSK	A	1266M	1:1	0.04	1702.50	340500	CP-OFDM	1.5	22.5	22.11	1	1	Left Cheek	0	55	0.091	1.094	0.100	0.396	0.248		32.5		i l
Head	NR Band n70	15	QPSK	A	1247M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.46	1	77	Left Tilt	0	11	0.050	1.132	0.057	0.160	0.100		35.4		i I
Head	NR Band n70	15	QPSK	A	1247M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	24.0	23.54	36	22	Left Tilt	0	11	0.052	1.112	0.058	0.163	0.102		36.3		i l
	NN SBIULINO 25 QF35 A 22VIN 1.1 DOS 2-02-30 SHOOL OF IN-OFOIN U.U 2-0 2-354 39 ANOINEE (SEC 51-39E-54-517 UNIT Spatial Feek Uncontribled Expound/General Population																	1.6 W/kg averaged o	(mW/g)								

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]				Exposure Ratio (1g SAR)		Plimit		EFS Plimit [dBm]
Head	NR Band n70	15	QPSK	F	1263M	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.42	1	77	Right Cheek	0	0.642	1.143	0.734	0.734	0.459		18.3		
Head	NR Band n70	15	QPSK	F	1263M	1:1	+0.03	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.32	36	22	Right Cheek	0	0.643	1.169	0.752	0.752	0.470		18.2		
Head	NR Band n70	15	QPSK	F	1263M	1:1	-0.07	1702.50	340500	CP-OFDM	0.0	17.0	16.26	1	1	Right Cheek	0	0.653	1.186	0.774	0.774	0.484	A54	18.1		
Head	NR Band n70	15	QPSK	F	1263M	1:1	0.05	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.42	1	77	Right Tilt	0	0.592	1.143	0.677	0.677	0.423		18.6		1
Head	NR Band n70	15	QPSK	F	1263M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.32	36	22	Right Tilt	0	0.600	1.169	0.701	0.701	0.438		18.5	18.1	16.0
Head	NR Band n70	15	QPSK	F	1243M	1:1	+0.02	1702.50		DFT-s-OFDM	0.0	17.0	16.42	1	77	Left Cheek	0	0.343	1.143	0.392	0.392	0.245		21.0		
Head	NR Band n70	15	QPSK	F	1243M	1:1	0.01	1702.50		DFT-s-OFDM	0.0	17.0	16.32	36	22	Left Cheek	0	0.351	1.169	0.410	0.410	0.256		20.8		
Head	NR Band n70	15	QPSK	F	1255M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.42	1	77	Left Tilt	0	0.468	1.143	0.535	0.535	0.334		19.7		
Head	NR Band n70	15	QPSK	F	1255M	1:1	0.00	1702.50	340500	DFT-s-OFDM	0.0	17.0	16.32	36	22	Left Tilt	0	0.488	1.169	0.570	0.570	0.356		19.4		
	ANS/REE CS.1 192- SAETY LIMIT Spatial Peak 1.6 W/kg (mW/g) Uncontrolled Expount/General Population averaged over 1 gram																									

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured Ig SAR (W/kg)		Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]			Plimit (dBm)		EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	-0.13	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.25	1	77	Back	10	55	0.420	1.189	0.499	0.499	0.312	A55	23.0		
Body-worn/Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	-0.11	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.30	36	0	Back	10	55	0.400	1.175	0.470	0.470	0.294		23.2	I	1
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.25	1	77	Front	10	55	0.230	1.189	0.273	0.273	0.171		25.6	1	1
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.04	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.30	36	0	Front	10	55	0.210	1.175	0.247	0.247	0.154		26.0	1	1
Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.25	1	77	Bottom	10	55	0.799	1.189	0.950	0.950	0.594	A56	20.2	1	1
Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	-0.05	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.30	36	0	Bottom	10	55	0.746	1.175	0.877	0.877	0.548		20.5	20.2	19.0
Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.23	75	0	Bottom	10	55	0.784	1.194	0.936	0.936	0.585		20.2	20.2	19.0
Hotspot	NR Band n70	15	QPSK	A	1266M	1:1	-0.01	1702.50	340500	CP-OFDM	0.0	20.0	19.35	1	1	Bottom	10	55	0.738	1.161	0.857	0.857	0.536		20.6	1	1
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.01	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.25	1	77	Right	10	55	0.026	1.189	0.031	0.031	0.019		35.1	1	1
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	0.15	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.30	36	0	Right	10	55	0.021	1.175	0.025	0.025	0.016		36.0	1	1
Hotspot	NR Band n70	15	QPSK	A	1263M	1:1	-0.01	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.25	1	77	Left	10	55	0.068	1.189	0.081	0.081	0.051		30.9	1	1
Hotspot	NR Band n70 15 QPSK A 1263M 1:1 -0.01 1702.50 340500 DFT-s-OFDM 0.0 20.0 15												19.30	36	0	Left	10	55	0.069	1.175	0.081	0.081	0.051		30.9	1	1
	ANS//REC (93.1 1992 - SAFTY UMIT Spatial Peak Uncontrolled Expount/General Population																	1.6 W/kg averaged o	g (mW/g)								

Table 12-76

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n70	15	QPSK	F	1263M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.39	1	40 Bark 10 0.214 1.151 0.269 0.369 0.168 22 Bark 10 0.248 1.178 0.252 0.292 0.183											
Body-worn/Hotspot	NR Band n70	15	QPSK	F	1263M	1:1	-0.02	1702.50		DFT-s-OFDM	0.0	20.0	19.29	36	22 Back 10 0.248 1.178 0.292 0.292 0.183 40 Front 10 0.266 1.151 0.306 0.306 0.191											i l
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.03	1702.50		DFT-s-OFDM	0.0	20.0	19.39	1	22 Back 10 0.248 1.178 0.292 0.292 0.183 40 Floot 10 0.266 1.151 0.306 0.305 0.191 22 Floot 10 0.722 1.178 0.330 0.330 0.300											1
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.04	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.29	36	36 22 Bark 10 0.248 1.178 0.292 0.292 0.183 1 40 Front 10 0.266 1.151 0.306 0.306 0.191											i l
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.08	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.39	1	40	Тор	10	0.470	1.151	0.541	0.541	0.338		22.6	22.5	19.0
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.11	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.29	36	22	Тор	10	0.476	1.178	0.561	0.561	0.351		22.5		1
Hotspot	NR Band n70	15	QPSK	F	1263M	1:1	0.03	1702.50	340500	CP-OFDM	0.0	20.0	19.44	1	1	Тор	10	0.464	1.138	0.528	0.528	0.330		22.7		1
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	-0.03	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.39	1	40	Left	10	0.148	1.151	0.170	0.170	0.106		27.6		1
Hotspot	NR Band n70	15	QPSK	F	1243M	1:1	0.02	1702.50	340500	DFT-s-OFDM	0.0	20.0	19.29	36	22	Left	10	0.151	1.178	0.178	0.178	0.111		27.5		1
					ANSI/IEEE I	Spatial Peak Exposure/Ger		ion											Body W/kg (mW/g) aged over 1 gran	n						

12.22 NR Band n66 Standalone SAR

Table 12-77

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MH2]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [d8m]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n66	45	QPSK	A	1266M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Right Cheek	0	11	0.089	1.225	0.109	0.181	0.113		34.1		$\overline{}$
Head	NR Band n66 45 QPSK A 1266M 1:1 0.21 1745.00 349000 DFT-s-OFDM 0.0 24.5 23.29 120															Right Cheek	0	11	0.099	1.321	0.131	0.217	0.136		33.3		
Head	NR Band n66 45 QPSK A 1266M 1:1 0.21 1745.00 349000 DFT-6-DFDM 0.0 24.5 23.29 120 NR Band n66 45 QPSK A 1266M 1:1 0.04 1745.00 349000 DFT-6-DFDM 0.0 24.5 23.52 1															Right Tilt	0	11	0.070	1.225	0.086	0.142	0.089		35.1		
Head	NR Band n66	45	QPSK	A	1266M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.29	120	61	Right Tilt	0	- 11	0.061	1.321	0.081	0.134	0.084		35.4		
Head	NR Band n66	45	QPSK	A	1266M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Left Cheek	0	56	0.184	1.225	0.225	0.374	0.234		30.9	30.1	26.7
Head	NR Band n66	45	QPSK	A	1266M	1:1	0.07	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.29	120	61	Left Cheek	0	56	0.205	1.321	0.271	0.450	0.281		30.1		
Head	NR Band n66	45	QPSK	A	1266M	1:1	-0.01	1745.00	349000	CP-OFDM	1.5	23.0	22.20	1	1	Left Cheek	0	56	0.133	1.202	0.160	0.375	0.234		30.9		
Head	NR Band n66	45	QPSK	A	1266M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.62	1	1	Left Tilt	0	56	0.056	1.225	0.069	0.114	0.071		36.1		
Head	NR Band n66	45	QPSK	A	1266M	1:1	-0.20	1745.00	349000	DFT-s-OFDM	0.0	24.5	23.29	120	61	Left Tilt	0	56	0.069	1.321	0.091	0.151	0.094		34.9		
					ANSI/IEEE O	Spatial Peak		on												rad g (mW/g) over 1 gram							

Table 12-78

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle					MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	SAR [W/kg]	Factor		SAR[W/kg]	Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	Plimit
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00		DFT-s-OFDM	0.0	17.0	16.29	1	1	Right Cheek	0	0.644	1.178	0.759	0.759	0.474		18.2		1
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Right Cheek	0	0.637	1.216	0.775	0.775	0.484		18.1		1
Head	NR Band n66	45	QPSK	F	1263M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	17.0	16.30	1	1	Right Cheek	0	0.660	1.175	0.776	0.776	0.485	A57	18.1		1
Head	NR Band n66	45	QPSK	F	1263M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.29	1	1	Right Tilt	0	0.589	1.178	0.694	0.694	0.434		18.5		1
Head	NR Band n66	45	QPSK	F	1263M	1:1	0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Right Tilt	0	0.583	1.216	0.709	0.709	0.443		18.4	18.1	16.0
Head	NR Band n66	45	QPSK	F	1243M	1:1	-0.07	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.29	1	1	Left Cheek	0	0.348	1.178	0.410	0.410	0.256		20.8		1
Head	NR Band n66	45	QPSK	F	1243M	1:1	-0.01	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Left Cheek	0	0.339	1.216	0.412	0.412	0.258		20.8		1
Head	NR Band n66	45	QPSK	F	1255M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.29	1	1	Left Tilt	0	0.501	1.178	0.590	0.590	0.369		19.2		1
Head	NR Band n66	45	QPSK	F	1255M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	17.0	16.15	120	0	Left Tilt	0	0.495	1.216	0.602	0.602	0.376		19.2		1
						95.1 1992 - S Spatial Peal xposure/Ge													Head W/kg (mW/g) aged over 1 gra							

Table 12-79

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]			Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)		Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n66	45	QPSK	A	1266M	1:1	0.00	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.58	1	1	Back	10	55	0.476	1.236	0.588	0.588	0.368		21.8		
Body-worn/Hotspot	NR Band n66	45	QPSK	A	1266M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.48	120	0	Back	10	55	0.493	1.265	0.624	0.624	0.390	A58	21.5		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	-0.11	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.58	1	1	Front	10	55	0.319	1.236	0.394	0.394	0.246		23.5		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	-0.10	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.48	120	0	Front	10	55	0.328	1.265	0.415	0.415	0.259		23.3		
Hotspot	NR Band n66	45	QPSK	A	1266M	1:1	0.01	1745.00	349000		0.0	19.5	18.58	1	1	Bottom	10	55	0.831	1.236	1.027	1.027	0.642		19.3		
Hotspot	NR Band n66	45	QPSK	A	1266M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.48	120	0	Bottom	10	55	0.855	1.265	1.082	1.082	0.676		19.1	19.1	18.5
Hotspot	NR Band ni66 45 CPSK A 1286M 1:1 0.01 1785.00 340000 071-0-070M 0.0 13.5 18.98 1.1														0	Bottom	10	55	0.833	1.294	1.078	1.078	0.674		19.1	19.1	10.5
Hotspot	NR Band n66	45	QPSK	A	1266M	1:1	-0.01	1745.00	349000	CP-OFDM	0.0	19.5	18.74	1	1	Bottom	10	55	0.871	1.191	1.037	1.037	0.648	A59	19.3		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	0.08	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.58	1	1	Right	10	55	0.079	1.236	0.098	0.098	0.061		29.6		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.48	120	0	Right	10	55	0.077	1.265	0.097	0.097	0.061		29.6		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.58	1	1	Left	10	55	0.085	1.236	0.105	0.105	0.066		29.2		
Hotspot	NR Band n66	45	QPSK	A	1190M	1:1	0.02	1745.00	349000	DFT-s-OFDM	0.0	19.5	18.48	120	0	Left	10	55	0.088	1.265	0.111	0.111	0.069		29.0		
						Spatial Peal													1.6 W/kg averaged o	(mW/g)							

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		MPR (dB)	Max Allowed Power [dBm]	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	0.04	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.17	1	1	Back	10	0.272	1.211	0.329	0.329	0.206		25.8		
Body-worn/Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	0.08	1745.00		DFT-s-OFDM	0.0	21.0	20.21	120	61	Back	10	0.276	1.199	0.331	0.331	0.207		25.8		1
Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.17	1	1	Front	10	0.263	1.211	0.318	0.318	0.199		25.9		1
Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	-0.02	1745.00			0.0	21.0	20.21	120	61	Front	10	0.260	1.199	0.312	0.312	0.195		26.0		1
Hotspot	01 NR Band-666 45 QPSK F 124BM 11 4-02 1745.00 346000 DFT-0FDM 0.0 21.0 20.17 1 NR Band-666 45 QPSK F 124BM 11 4-02 1745.00 346000 DFT-0FDM 0.0 21.0 20.17 1 NR Band-666 45 QPSK F 124BM 11 4-02 1745.00 346000 DFT-0FDM 0.0 21.0 20.21 120 NR Band-666 45 QPSK F 124BM 11 4-02 1745.00 346000 DFT-0FDM 0.0 21.0 20.27 1 1														1	Тор	10	0.539	1.211	0.653	0.653	0.408		22.8	22.7	20.0
Hotspot	et NB Band n66 45 QPSK F 124BM 11 0.02 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 1 0.02 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF+-0FDM 0.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF0FDM 0.0 21.0 21.0 20.17 1 1 0.0 1 1245.00 349000 0FF0FDM 0.0 1245.00 349000 0FF0FDM 0.0 1245.00 349000 0FF0FDM 0.0 1245.00 349000 0FF0FDM 0.0														61	Тор	10	0.555	1.199	0.665	0.665	0.416		22.7		1
Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	-0.07	1745.00	349000	CP-OFDM	0.0	21.0	20.25	1	1	Тор	10	0.562	1.189	0.668	0.668	0.418		22.7		1
Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	0.05	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.17	1	1	Left	10	0.156	1.211	0.189	0.189	0.118		28.2		í
Hotspot	NR Band n66	45	QPSK	F	1243M	1:1	-0.02	1745.00	349000	DFT-s-OFDM	0.0	21.0	20.21	120	61	Left	10	0.128	1.199	0.153	0.153	0.096		29.1		í
					ANSI/IEEE I	Spatial Peak Exposure/Ger		ion											Body W/kg (mW/g) aged over 1 gran	n						

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12.23 NR Band n25 Standalone SAR

Table 12-81

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	PS Plimit [dBm]
Head	NR Band n25	40	QPSK	A	1266M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Right Cheek	0	0	0.097	1.183	0.115	0.257	0.161		33.9	-	
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.11	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Right Cheek	0	0	0.096	1.216	0.117	0.261	0.163		33.8		
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Right Tilt	0	1	0.045	1.183	0.053	0.119	0.074		37.2		
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Right Tilt	0	1	0.048	1.216	0.058	0.131	0.082		36.8		
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Left Cheek	0	1	0.166	1.183	0.196	0.440	0.275		31.5	31.4	28.0
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Left Cheek	0	1	0.164	1.216	0.199	0.447	0.279		31.5		
Head	NR Band n25	40	QPSK	A	1266M	1:1	0.03	1882.50	376500	CP-OFDM	1.5	23.0	22.38	1	1	Left Cheek	0	1	0.124	1.153	0.143	0.452	0.283		31.4		
Head	NR Band n25	40	QPSK	A	1266M	1:1	-0.16	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.77	1	108	Left Tilt	0	1	0.031	1.183	0.037	0.082	0.051		38.8		
Head	NR Band n25	40	QPSK	A	1266M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	24.5	23.65	108	54	Left Tilt	0	1	0.033	1.216	0.040	0.090	0.056		38.4		
						Spatial Peak Exposure/Ger		on											1.6 W/kg averaged o	g (mW/g)							

Table 12-82

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR (W/kg)	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#		Overall Plimit (dBm)	EFS Plimit (dBm)
Head	NR Band n25	40	QPSK	F	1266M	1:1	0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.28	1	108	Right Cheek	0	0.729	1.180	0.860	0.860	0.538		19.6		1
Head	NR Band n.25 40 QPSK F 1286M 1:1 0.06 1882:50 376500 GPT+-OFGM 0.0 18.0 18.20 108 0 Right Onesk 0 0.779 1.202 0.996 0.996 0.996 0.997 NR Band n.25 40 QPSK F 1286M 1:1 0.00 1882:50 376500 GPT+-OFGM 0.0 18.0 18.17 2.56 0 Right Onesk 0 0.779 1.202 0.996 0.996 0.996 0.997 NR Band n.25 40 QPSK F 1286M 1:1 0.00 1882:50 376500 GPT+-OFGM 0.0 18.0 18.17 2.56 0 Right Onesk 0 0.779 1.211 0.955 0.936 0.996 0.997 NR Band n.25 40 QPSK F 1286M 1:1 0.00 1882:50 376500 GPTOFGM 0.0 18.0 18.17 2.56 0 Right Onesk 0 0.779 1.211 0.955 0.936 0.996 0.998 NR Band n.25 40 QPSK F 1286M 1:1 0.05 18.825.0 376500 GPTOFGM 0.0 18.0 18.17 2.56 0 Right Onesk 0 0.779 1.211 0.955 0.996 0.998 0.9															0.585		19.2		1						
Head	NR Band-85 40 GPSK F 1266M 1:1 0.00 1882:00 TPG-00TM 0.0 150 150 150 150 0 TPG-00TM 0.0 150 150 150 150 150 150 150 150 150 15														19.3		1									
Head	NR Band n.25 40 CPSK F 1266M 1:1 0.00 188230 378500 DFT+0-0FDM 0.0 15.0 18.17 21.6 0 Right Cheek 0 0.0%5 1.211 0.035 0.055 0.575 NR Band n.25 40 CPSK F 1266M 1:1 0.05 188250 378500 DFT+0-0FDM 0.0 15.0 18.17 1 1 1 Right Cheek 0 0.0%5 1.211 0.035 0.055 0.555 NR Band n.25 40 CPSK F 1266M 1:1 0.05 188250 378500 DFT+0-0FDM 0.0 15.0 18.27 1 1.06 Right Tile 0 0.0221 1.190 0.084 0.665 0.055 NR Band n.25 40 CPSK F 1266M 1:1 0.05 188250 378500 DFT+0-0FDM 0.0 15.0 18.27 1 1.06 Right Tile 0 0.0221 1.190 0.0852 0.0853 0.653 0.653															A60	19.0		1							
Head	NR Band n25 40 0°95 F 1266M 1:1 -0.05 1382.50 376500 0°F-0.0F0M 0.0 19.0 18.21 1 1 8,0F0.0esk 0 0.521 1:19 0.594 0.954 0.615 4.0 NR Band n25 40 0°F5 F 1266M 1:1 -0.01 1882.50 376500 0°F-0.0F0M 0.0 19.0 18.20 1															19.6		1								
Head	NR Band n/S															0.576		19.3	19.0	18.0						
Head	NR Bend 35 40 OPSK F 1366M 11 0.01 382.50 37600 DF1-0F0RM 0.0 150 15.28 1 1 5 NR Bend 155 40 OPSK F 1366M 11 0.00 1882.50 0F1-0F0RM 0.0 150 15.28 1 1 5 NR Bend 155 40 OPSK F 1366M 11 0.00 1882.50 37800 DF1-0F0RM 0.0 150 18.30 108 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 37800 DF1-0F0RM 0.0 150 18.27 256 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 0F1-0F0RM 0.0 150 18.27 256 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 0F1-0F0RM 0.0 150 18.27 256 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 0F1-0F0RM 0.0 150 18.27 256 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 0F1-0F0RM 0.0 150 18.27 256 NR Bend 155 40 OPSK F 1266M 11 0.00 1882.50 0F1-0F0RM 0.0 150 18.28 1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														0	Right Tilt	0	0.768	1.211	0.930	0.930	0.581		19.3		1
Head	NR Band n25 40 CPSK F 1266M 1:1 0.02 1882:50 376500 DFTs GFDM 0.0 1250 18.23 108 NR Band n25 40 CPSK F 1266M 1:1 0.00 1882:50 376500 DFTs GFDM 0.0 1250 18.23 108 NR Band n25 40 CPSK F 1266M 1:1 0.00 1882:50 376500 DFTs GFDM 0.0 120 18.17 226 NR Band n25 40 CPSK F 1266M 1:1 0.00 1882:50 376500 DFTs GFDM 0.0 120 18.23 1														108	Left Cheek	0	0.468	1.180	0.552	0.552	0.345		21.5		1
Head	NR Band n25	40	QPSK	F	1266M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Left Cheek	0	0.488	1.202	0.587	0.587	0.367		21.3		1
Head	NR Band n25	40	QPSK	F	1266M	1:1	0.01	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.28	1	108	Left Tilt	0	0.619	1.180	0.730	0.730	0.456		20.3		1
Head	NR Band n25	40	QPSK	F	1266M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.20	108	0	Left Tilt	0	0.633	1.202	0.761	0.761	0.476		20.1		1
						95.1 1992 - S Spatial Peak xposure/Ger													Head W/kg (mW/g) aged over 1 gran	m						

Table 12-83

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Tune state	Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)		imit p		
Body-worn/Hotspot														3.2													
Body-worn/Hotspot	Hotspot NR Band n.25 40 QPSK A 1266M 1:1 -0.12 1882:50 376500 DFT+5-OFDM 0.0 19.0 18.09 108 54 Back 10 0 0.325 1.233 0.401 0.401 0.251 A61 2.25														2.9												
Hotspot	oot NR Band n.25 40 QPSK A 1190M 1:1 -0.09 1882.50 376500 DFT+OFDM 0.0 19.0 18.10 1 108 Front 10 0 0.429 1.230 0.528 0.528 0.330 1														1.7												
Hotspot	NR Band n25	40	QPSK	A	1190M	1:1	-0.12	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Front	10	0	0.454	1.233	0.560	0.560	0.350		1.5		
Hotspot	NR Band n25	40	QPSK	A	1266M	1:1	+0.06	1882.50		DFT-s-OFDM	0.0	19.0	18.10	1	108	Bottom	10	0	0.691	1.230	0.850	0.850	0.531		9.7		
Hotspot	NR Band n25	40	QPSK	A	1266M	1:1	-0.06	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Bottom	10	0	0.736	1.233	0.907	0.907	0.567		9.4	19.4	18.0
Hotspot	NR Band n25	40	QPSK	A	1266M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.01	216	0	Bottom	10	0	0.718	1.256	0.902	0.902	0.564		9.4	19.4	10.0
Hotspot	NR Band n25	40	QPSK	A	1266M	1:1	-0.11	1882.50	376500	CP-OFDM	0.0	19.0	18.24	1	1	Bottom	10	0	0.696	1.191	0.829	0.829	0.518		9.8		
Hotspot	NR Band n25	40	QPSK	A	1190M	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Right	10	0	0.044	1.230	0.054	0.054	0.034		1.6		
Hotspot	NR Band n25	40	QPSK	A	1190M	1:1	0.08	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Right	10	0	0.052	1.233	0.064	0.064	0.040		0.9		
Hotspot	NR Band n25	40	QPSK	A	1190M	1:1	0.04	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.10	1	108	Left	10	0	0.043	1.230	0.053	0.053	0.033		1.7		
Hotspot	NR Band n25	40	QPSK	A	1190M	1:1	0.07	1882.50	376500	DFT-s-OFDM	0.0	19.0	18.09	108	54	Left	10	0	0.047	1.233	0.058	0.058	0.036		11.3		
					ANSI/IEEE	C95.1 1992 - S Spatial Peal exposure/Ge	k		·										1.6 W/k	ody g (mW/g) over 1 gram							

Table 12-84

										_																
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Back	10	0.255	1.172	0.299	0.299	0.187		26.2		$\overline{}$
Body-worn/Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.25	108	54	Back	10	0.261	1.189	0.310	0.310	0.194		26.0	1	i l
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Front	10	0.236	1.172	0.277	0.277	0.173		26.5	1	i l
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.11	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.25	108	54	Front	10	0.246	1.189	0.292	0.292	0.183		26.3]	i l
Hotspot	DOX NR Band n.DS 40 QPSK F 124BM 1:1 0.00 188250 376500 DFF-GFDM 0.0 21.0 20.31 DOX NR Band n.DS 40 QPSK F 124BM 1:1 4.01 1882.50 378500 DFF-GFDM 0.0 21.0 20.35 DOX NR Band n.DS 40 QPSK F 124BM 1:1 0.00 1882.50 378500 DFF-GFDM 0.0 21.0 20.31 DOX NR SHAND NEW														108	Тор	10	0.759	1.172	0.890	0.890	0.556		21.5	21.0	20.0
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.25	108	54	Тор	10	0.799	1.189	0.950	0.950	0.594		21.2	21.0	20.0
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.04	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.24	216	0	Тор	10	0.812	1.191	0.967	0.967	0.604		21.1	1	i l
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	0.00	1882.50	376500	CP-OFDM	0.0	21.0	20.39	1	1	Top	10	0.850	1.151	0.978	0.978	0.611	A62	21.0		i l
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.03	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.31	1	108	Left	10	0.143	1.172	0.168	0.168	0.105		28.7]	i l
Hotspot	NR Band n25	40	QPSK	F	1243M	1:1	-0.02	1882.50	376500	DFT-s-OFDM	0.0	21.0	20.25	108	54	Left	10	0.144	1.189	0.171	0.171	0.107		28.6		i
					ANSI/IEEE I	Spatial Peak		ion											Body 5 W/kg (mW/g) aged over 1 gran	n						

12.24 NR Band n30 Standalone SAR

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n30	10	QPSK	A	1278M	1:1	-0.01	2310.00		DFT-s-OFDM	0.0	23.5	22.91	1	1	Right Cheek	0	0.021	1.146	0.024	0.332	0.208		39.6		
Head	NR Band n30	10	QPSK	A	1278M	1:1	0.03	2310.00		DFT-s-OFDM	0.0	23.5	22.81	25	14	Right Cheek	0	0.021	1.172	0.025	0.340	0.213		39.5		i l
Head	NR Band n30	10	QPSK	A	1278M	1:1	0.08	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.91	1	1	Right Tilt	0	0.018	1.146	0.021	0.285	0.178		40.3		i l
Head	NR Band n30	10	QPSK	A	1278M	1:1	0.17	2310.00		DFT-s-OFDM	0.0	23.5	22.81	25	14	Right Tilt	0	0.020	1.172	0.023	0.324	0.203		39.7		i l
Head	NR BandridD 10 QPSX A 1278M 1:1 0.08 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 NR BandridD 10 QPSX A 1278M 1:1 0.07 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 5 5 14 NR BandridD 10 QPSX A 1278M 1:1 0.07 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 22.91 1 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 4600000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.5 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FDM 0.0 23.91 1 1 1 0.01 2310.00 460000 GPT+0/FD														1	Left Cheek	0	0.016	1.146	0.018	0.253	0.158		40.8	38.4	34.9
Head	NR Band n30	10	QPSK	A	1278M	1:1	-0.04	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.81	25	14	Left Cheek	0	0.019	1.172	0.022	0.307	0.192		40.0		i l
Head	NR Band n30	10	QPSK	A	1278M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.91	1	1	Left Tilt	0	0.025	1.146	0.029	0.395	0.247		38.9		i l
Head	NR Band n30	10	QPSK	A	1278M	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	23.5	22.81	25	14	Left Tilt	0	0.027	1.172	0.032	0.437	0.273		38.4		i l
Head	NR Band n30	10	QPSK	A	1278M	1:1	-0.09	2310.00	462000	CP-OFDM	1.5	22.0	21.48	1	1	Left Tilt	0	0.018	1.127	0.020	0.396	0.248		38.9		į.
						95.1 1992 - S Spatial Peak xposure/Ger		on											Head W/kg (mW/g) aged over 1 gran	n						

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Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]			MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)		Plimit	Overall Plimit [dBm]	Plimit
Head	NR Band n30	10	QPSK	F	1278M	1:1	0.19	2310.00		DFT-s-OFDM	0.0	17.5	16.53	1	50	Right Cheek	0	0.679	1.250	0.849	0.849	0.531		18.2		
Head		10		F		1:1	0.04				0.0			25	14	Right Cheek	0			0.926	0.926	0.579		17.8		
Head	Head NR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.61 25 14 Right Cheek 0 0.721 1.285 Next MR Band nSD 10 QPSK F 1278M 1:1 0.03 2310.00 463000 DF1-0/FDM 0.0 17.5 16.52 50 Night Cheek 0 0.703 1.312 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.52 50 Night Cheek 0 0.703 1.312 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 463000 DF1-0/FDM 0.0 17.5 16.53 1 1 50 Right Three N D 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR Band nSD 10 QPSK F 1278M 1:1 0.01 2310.00 A 0.722 1.225 Next MR BAND NSD 10 QPSK F 1278M 1:1 0.01														1.312	0.922	0.922	0.576		17.8						
Head	ad NR Band x30 10 CPSK F 1278M 11 0.03 2330.00 462000 0F1-0F0M 0.0 17.5 16.33 50 0 Right Cheek 0 0.703 1.312 0.922 0.932 0.933 0.934														0.572	A63	17.8									
Head	Met Band RND 1D OPEX F 1278M 11 0.03 231000 45000 DPT-OFFM 0.0 12.75 16.27 50 0 Bight Cheek 0 0.732 1.312 0.922 0.922 0.922 0.923 0.935 0.915 </td <td>0.573</td> <td></td> <td>17.8</td> <td></td> <td>1</td>														0.573		17.8		1							
Head	Red NR Band n30 10 CPSK F 12778M 1:1 0.01 2330.00 46200 CPT+0-CPM 0.0 17.5 16.53 1 9 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0														0	Right Tilt	0	0.711	1.312	0.933	0.933	0.583		17.8	17.8	16.5
Head	NR Band ri30 10 CPSK F 1278M 1:1 0.01 2310.00 462000 DPT-FORM 0.0 17.5 16.53 1 NR Band ri30 10 CPSK F 1278M 1:1 0.01 2310.00 462000 DPT-FORM 0.0 17.5 16.41 25 NR Band ri30 10 CPSK F 1278M 1:1 0.01 2310.00 462000 DPT-FORM 0.0 17.5 16.41 25 NR Band ri30 10 CPSK F 1278M 1:1 0.01 2310.00 462000 DPT-FORM 0.0 17.5 16.53 50 NR Band ri30 10 CPSK F 1278M 1:1 0.07 2310.00 462000 CPSF-DPM 0.0 17.5 16.53 50 NR Band ri30 10 CPSK F 1278M 1:1 0.07 2310.00 462000 CPSF-DPM 0.0 17.5 16.50 15.50 1														1	Right Tilt	0	0.696	1.318	0.917	0.917	0.573		17.8		
Head	NR Band n30	10	QPSK	F	1278M	1:1	0.05	2310.00		DFT-s-OFDM	0.0	17.5	16.53	1	50	Left Cheek	0	0.400	1.250	0.500	0.500	0.313		20.5		
Head	NR Band n30	10	QPSK	F	1278M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.41	25	14	Left Cheek	0	0.397	1.285	0.510	0.510	0.319		20.4		
Head	NR Band n30	10	QPSK	F	1278M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.53	1	50	Left Tilt	0	0.511	1.250	0.639	0.639	0.399		19.4		
Head	NR Band n30	10	QPSK	F	1278M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	17.5	16.41	25	14	Left Tilt	0	0.513	1.285	0.659	0.659	0.412		19.3		
						Spatial Pea													Head 5 W/kg (mW/g) aged over 1 gran	m						

Table 12-87

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency (MHz)		Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	[dBm]	Overall Plimit [dBm]	Plimit
Body-worn/Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	-0.01	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Back	10	0.210	1.186	0.249	0.249	0.156	A64	26.0		
Body-worn/Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.04	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Back	10	0.210	1.197	0.251	0.251	0.157		25.9		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Front	10	0.185	1.186	0.219	0.219	0.137		26.5		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.02	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Front	10	0.159	1.197	0.190	0.190	0.119		27.2		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	+0.03	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Bottom	10	0.488	1.186	0.579	0.579	0.362	A65	22.3		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.05	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Bottom	10	0.481	1.197	0.576	0.576	0.360		22.3	22.3	19.0
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	+0.05	2310.00	462000	CP-OFDM	0.0	20.0	19.29	1	1	Bottom	10	0.482	1.178	0.568	0.568	0.355		22.4		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	-0.10	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Right	10	0.086	1.186	0.102	0.102	0.064		29.9		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	+0.04	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Right	10	0.085	1.197	0.102	0.102	0.064		29.9		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.26	1	1	Left	10	0.072	1.186	0.085	0.085	0.053		30.6		
Hotspot	NR Band n30	10	QPSK	A	1285M	1:1	0.03	2310.00	462000	DFT-s-OFDM	0.0	20.0	19.22	25	0	Left	10	0.073	1.197	0.087	0.087	0.054		30.5		
						95.1 1992 - S Spatial Peal xposure/Ge													Body W/kg (mW/g) aged over 1 gran	m						

Table 12-88

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]			MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	0.02	2310.00		DFT-s-OFDM	0.0	19.0	18.09	1	50	Back	10	0.205	1.233	0.253	0.253	0.158		24.9		
Body-worn/Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	-0.03	2310.00		DFT-s-OFDM	0.0	19.0	17.93	25	27	Back	10	0.209	1.279	0.267	0.267	0.167		24.7		1
Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	0.00	2310.00		DFT-s-OFDM	0.0	19.0	18.09	1	50	Front	10	0.187	1.233	0.231	0.231	0.144		25.3		1
Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	-0.11	2310.00		DFT-s-OFDM	0.0	19.0	17.93	25	27	Front	10	0.185	1.279	0.237	0.237	0.148		25.2		1
Hotspot	NR Band n30	2310.00		DFT-s-OFDM	0.0	19.0	18.09	1	50	Тор	10	0.378	1.233	0.466	0.466	0.291		22.3	22.3	18.0						
Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	0.00	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.93	25	27	Тор	10	0.338	1.279	0.432	0.432	0.270		22.6		1
Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	0.06	2310.00	462000	CP-OFDM	0.0	19.0	18.00	1	1	Тор	10	0.312	1.259	0.393	0.393	0.246		23.0		1
Hotspot	NR Band n30	10	QPSK	F	1285M	1:1	-0.05	2310.00	462000	DFT-s-OFDM	0.0	19.0	18.09	1	50	Left	10	0.030	1.233	0.037	0.037	0.023		33.3		1
Hotspot	NR Band n30	2310.00	462000	DFT-s-OFDM	0.0	19.0	17.93	25	27	Left	10	0.031	1.279	0.040	0.040	0.025		33.0								
	ANSI/IEEE CS.1.1992 - SAFETY LIMIT Spatial Period Uncontrolled Exposure/General Population																		Body W/kg (mW/g) aged over 1 gran	n						

12.25 NR Band n7 Standalone SAR

Table 12-89

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	[dB]	Frequency [MHz]	Channel #			Max Allowed Power [dBm]	Power [dBm]	RB Size			Spacing [mm]					Exposure Ratio (1g SAR)	Plot #		Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n7	50	QPSK	В	1278M	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Right Cheek	0	0.035	1.161	0.041	0.190	0.119		37.9		
Head	NR Band n7	50	QPSK	В	1278M	1:1	-0.13	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.28	135	68	Right Cheek	0	0.041	1.180	0.048	0.226	0.141		37.1		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	-0.03	2535.00		DFT-s-OFDM	0.0	24.0	23.35	1	268	Right Tilt	0	0.037	1.161	0.043	0.201	0.126		37.6		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.03	2535.00		DFT-s-OFDM	0.0	24.0	23.28	135	68	Right Tilt	0	0.047	1.180	0.055	0.259	0.162		36.5		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.20	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Left Cheek	0	0.064	1.161	0.074	0.348	0.218		35.2	34.2	30.7
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.04	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.28	135	68	Left Cheek	0	0.067	1.180	0.079	0.370	0.231		35.0		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.01	2535.00	507000	CP-OFDM	1.5	22.5	21.89	1	1	Left Cheek	0	0.058	1.151	0.067	0.441	0.276		34.2		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.35	1	268	Left Tilt	0	0.021	1.161	0.024	0.114	0.071		40.1		1
Head	NR Band n7	50	QPSK	В	1278M	1:1	0.01	2535.00	507000	DFT-s-OFDM	0.0	24.0	23.28	135	68	Left Tilt	0	0.030	1.180	0.035	0.166	0.104		38.5		
						Spatial Peak xposure/Ger		on											Head 5 W/kg (mW/g) aged over 1 gran	,						

Table 12-90

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift (dB)	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n7	50	QPSK	71	1278M	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.90	1	1	Right Cheek	0	0.593	1.148	0.681	0.681	0.426		18.1		
Head	NR Band n7	50	QPSK	4	1278M	1:1	-0.01	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.78	135	0	Right Cheek	0	0.616	1.180	0.727	0.727	0.454		17.8		
Head	NR Band n7	50	QPSK	F	1278M	1:1	-0.02	2535.00		DFT-s-OFDM		16.5	15.90	1	1	Right Tilt	0	0.626	1.148	0.719	0.719	0.449		17.9		
Head	NR Band n7	50	QPSK	F	1278M	1:1	0.07	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.78	135	0	Right Tilt	0	0.661	1.180	0.780	0.780	0.488		17.5		1
Head	NR Band n7	50	QPSK	т	1278M	1:1	0.08	2535.00	507000	CP-OFDM	0.0	16.5	15.97	1	1	Right Tilt	0	0.675	1.130	0.763	0.763	0.477	A66	17.6	17.5	15.5
Head	NR Band n7	50	QPSK	4	1302M	1:1	0.02	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.90	1	1	Left Cheek	0	0.262	1.148	0.301	0.301	0.188		21.7		
Head	NR Band n7	50	QPSK	71	1278M	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.78	135	0	Left Cheek	0	0.270	1.180	0.319	0.319	0.199		21.4		
Head	NR Band n7	50	QPSK	F	1278M	1:1	-0.02	2535.00		DFT-s-OFDM		16.5	15.90	1	1	Left Tilt	0	0.430	1.148	0.494	0.494	0.309		19.5		
Head	NR Band n7	50	QPSK	F	1278M	1:1	-0.11	2535.00	507000	DFT-s-OFDM	0.0	16.5	15.78	135	0	Left Tilt	0	0.460	1.180	0.543	0.543	0.339		19.1		
	ANS/REE CIS. 1.592-5-544TY LIMIT Spatial Peak Uncornitod to pour giorent Population																		Head W/kg (mW/g) aged over 1 gran	m						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency (MHz)	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n7	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.30	1	268	Back	10	0.197	1.175	0.231	0.231	0.144		26.3								
Body-worn/Hotspot	NR Band n7	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.29	135	68	Back	10	0.188	1.178	0.221	0.221	0.138		26.5		i l						
Body-worn/Hotspot	NR Band n7	50	QPSK	В	1278M	0.04	2535.00	507000	CP-OFDM	0.0	20.0	19.34	1	1	Back	10	0.173	1.164	0.201	0.201	0.126		26.9		i l	
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	0.03	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.30	1	268	Front	10	0.099	1.175	0.116	0.116	0.073		29.3		i l
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	-0.03	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.29	135	68	Front	10	0.110	1.178	0.130	0.130	0.081		28.8	26.3	19.0
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	0.00	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.30	1	268	Bottom	10	0.125	1.175	0.147	0.147	0.092		28.3		i l
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	-0.02	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.29	135	68	Bottom	10	0.148	1.178	0.174	0.174	0.109		27.5		i l
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	-0.05	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.30	1	268	Left	10	0.145	1.175	0.170	0.170	0.106		27.6		i l
Hotspot	NR Band n7	50	QPSK	В	1278M	1:1	0.13	2535.00	507000	DFT-s-OFDM	0.0	20.0	19.29	135	68	Left	10	0.172	1.178	0.203	0.203	0.127		26.9		i .
	NK 830G N7 30 CP-3K 8 17/894 E1 0.15 255.00 50/0.00 CP-12-G-0.00 0.0 2.00 ANSIGER CSS.11925-SEPTEMENT																	Body W/kg (mW/g) azed over 1 gra								

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]			MPR (dB)	Max Allowed Power [dBm]	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor			Exposure Ratio (1g SAR)		Plimit [dBm]	Overall Plimit [dBm]	
Body-worn/Hotspot	NR Band n7	2535.00		DFT-s-OFDM	0.0	18.0	17.21	1	1	Back	10	0.200	1.199	0.240	0.240	0.150	A67	24.1								
Body-worn/Hotspot	NR Band n7	2535.00	507000	DFT-s-OFDM	0.0	18.0	17.24	135	135	Back	10	0.182	1.191	0.217	0.217	0.136		24.6								
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.04	2535.00		DFT-s-OFDM	0.0	18.0	17.21	1	1	Front	10	0.106	1.199	0.127	0.127	0.079		26.9		
Hotspot	NR Band n7	50	QPSK QPSK	F	1278M 1278M	1:1	-0.07	2535.00		DFT-s-OFDM	0.0	18.0	17.24	135	135	Front	10	0.104	1.191	0.124	0.124	0.078		27.0		
Hotspot	NR Band n7	2535.00	507000	DFT-s-OFDM	0.0	18.0	17.21	1	1	Top	10	0.383	1.199	0.459	0.459	0.287	A68	21.3	21.3	17.0						
Hotspot	NR Band n7	50	1278M	-0.08	2535.00	507000	DFT-s-OFDM	0.0	18.0	17.24	135	135	Top	10	0.380	1.191	0.453	0.453	0.283		21.4					
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.04	2535.00	507000	CP-OFDM	0.0	18.0	17.30	1	1	Top	10	0.380	1.175	0.447	0.447	0.279		21.5		
Hotspot	NR Band n7	50	QPSK	F	1278M	1:1	-0.12	2535.00	507000	DFT-s-OFDM	0.0	18.0	17.21	1	1	Left	10	0.045	1.199	0.054	0.054	0.034		30.6		
Hotspot	Hotspot NR Band n7 50 QPSK F 1278M 1:1 0.02 2535.00 507000 DFT-										0.0	18.0	17.24	135	135	Left	10	0.049	1.191	0.058	0.058	0.036		30.3		
						Spatial Pea													Body 6 W/kg (mW/g) raged over 1 gran	m						

12.26 NR Band n41 Standalone SAR

Table 12-93

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Waveform	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n41	100	В	1	1294M	1:1	0.12	2592.99	518598	CW/SRS	18.5	18.19	Right Cheek	0	0.002	1.074	0.002	0.002	0.001		45.1	\neg	
Head	NR Band n41	100	В	1	1294M	1:1	-0.10	2592.99	518598	CW/SRS	18.5	18.19	Right Tilt	0	0.001	1.074	0.001	0.001	0.001		48.1	34.9	17.5
Head	NR Band n41	100	В	1	1294M	1:1	-0.19	2592.99	518598	CW/SRS	18.5	18.19	Left Cheek	0	0.021	1.074	0.023	0.023	0.014		34.9	34.5	17.5
Head	NR Band n41	100	В	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	18.5	18.19	Left Tilt	0	0.001	1.074	0.001	0.001	0.001		48.1		l I
				ANSI/	TEEE C95.1 1992		IT									Head							
		Spatial Peak														1.6 W/kg (m	W/g)				1		
				Uncontro	olled Exposure/G	eneral Popula	ation									averaged over	1 gram				1		

Table 12-94

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant	Path #	Serial Number		[dB]	Frequency [MHz]	Channel #			Power (abm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	SAR [W/Kg]						Overall Plimit [d8m]	FS Plimit [dBm]
Head	NR Band n41	100	QPSK	В	2	1298M	1:1	-0.11	2592.99	518598	DFT-s-OFDM	0.0	25.0	25.00	1	1	Right Cheek	0	0.051	1.000	0.051	0.051	0.032	37.9		
Head	NR Band n41	100	QPSK	8	2	1298M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.92	135	0	Right Cheek	0	0.037	1.019	0.038	0.038	0.024	39.2		
Head	NR Band n41	100	QPSK	В	2	1298M	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	25.0	25.00	1	1	Right Tilt	0	0.046	1.000	0.046	0.046	0.029	38.3		
Head	NR Band n41	100	QPSK	8	2	1298M	1:1	0.01	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.92	135	0	Right Tilt	0	0.031	1.019	0.032	0.032	0.020	40.0		
Head	NR Band n41	100	QPSK	8	2	1298M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	25.0	25.00	1	1	Left Cheek	0	0.081	1.000	0.081	0.081	0.051	35.9	35.5	24.0
Head	NR Band n41	100	QPSK	В	2	1298M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.92	135	0	Left Cheek	0	0.072	1.019	0.073	0.073	0.046	36.3		
Head	NR Band n41	100	QPSK	8	2	1298M	1:1	-0.12	2592.99	518598	CP-OFDM	0.0	25.0	24.90	1	1	Left Cheek	0	0.086	1.023	0.088	0.088	0.055	35.5		
Head	NR Band n41	100	QPSK	8	2	1298M	1:1	0.09	2592.99	518598	DFT-s-OFDM	0.0	25.0	25.00	1	1	Left Tilt	0	0.035	1.000	0.035	0.035	0.022	39.5		
Head	NR Band n41	100	QPSX	В	2	1298M	1:1	-0.14	2592.99	518598	DFT-s-OFDM	0.0	25.0	24.92	135	0	Left Tilt	0	0.029	1.019	0.030	0.030	0.019	40.2		
						ANSI/IEEE C95.1 Spat controlled Expos	Sal Peak													Head 6 W/kg (mW/g) raged over 1 gran	n					

Table 12-95

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path#	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power (dBm)	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n41	100	D	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	15.0	14.54	Right Cheek	0	0.000	1.112	0.000	0.000	0.000		54.5		$\overline{}$
Head	NR Band n41	100	D	1	1294M	1:1	0.08	2592.99	518598	CW/SRS	15.0	14.54	Right Tilt	0	0.000	1.112	0.000	0.000	0.000		54.5	54.5	14.0
Head	NR Band n41	100	D	1	1294M	1:1	0.01	2592.99	518598	CW/SRS	15.0	14.54	Left Cheek	0	0.000	1.112	0.000	0.000	0.000		54.5	34.3	14.0
Head	NR Band n41	100	D	1	1294M	1:1	0.04	2592.99	518598	CW/SRS	15.0	14.54	Left Tilt	0	0.000	1.112	0.000	0.000	0.000		54.5		i
				ANSI/	IEEE C95.1 1992	SAFETY LIMI	т									Head							
				Uncontro	Spatial Pe illed Exposure/G		ition									1.6 W/kg (m averaged over							

Table 12-96

Exposure	Band / Mode	Bandwidth [MHz]	Ant	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power (dBm)	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n41	100	E	1	1294M	1:1	0.03	2592.99	518598	CW/SRS	17.0	16.73	Right Cheek	0	0.304	1.064	0.323	0.323	0.202		21.9		$\overline{}$
Head	NR Band n41	100	E	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	17.0	16.73	Right Tilt	0	0.292	1.064	0.311	0.311	0.194		22.0	19.0	16.0
Head	NR Band n41	100	E	1	1294M	1:1	-0.16	2592.99	518598	CW/SRS	17.0	16.73	Left Cheek	0	0.583	1.064	0.620	0.620	0.388	A69	19.0	19.0	16.0
Head	NR Band n41	100	E	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	17.0	16.73	Left Tilt	0	0.533	1.064	0.567	0.567	0.354		19.4		1
				ANSI/	IEEE C95.1 1992	SAFETY LIM	IT									Head							
	Spatial Peak															1.6 W/kg (m	W/g)						
				Uncontri	olled Exposure/G	eneral Popula	ation									averaged over	1 gram						

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path #	Serial Number	Duty Cycle	[dB]			Waveform				RB Size	RB Offset	Test Position	Spacing [mm]						Plot#		Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.45	1	1	Right Cheek	0	0.330	1.012	0.334	0.334	0.209		19.2		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.34	135	69	Right Cheek	0	0.312	1.038	0.324	0.324	0.203		19.3		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.02	2592.99	518598	CP-OFDM	0.0	14.5	14.33	1	1	Right Cheek	0	0.338	1.040	0.352	0.352	0.220		19.0		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.45	1	1	Right Tilt	0	0.300	1.012	0.304	0.304	0.190		19.6		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.06	2592.99		DFT-s-OFDM	0.0	14.5	14.34	135	69	Right Tilt	0	0.321	1.038	0.333	0.333	0.208		19.2	19.0	13.5
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.04	2592.99		DFT-s-OFDM	0.0	14.5	14.45	1	1	Left Cheek	0	0.176	1.012	0.178	0.178	0.111		21.9		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.10	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.34	135	69	Left Cheek	0	0.156	1.038	0.162	0.162	0.101		22.4		1 1
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.45	1	1	Left Tilt	0	0.227	1.012	0.230	0.230	0.144		20.8		
Head	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	14.5	14.34	135	69	Left Tilt	0	0.210	1.038	0.218	0.218	0.136		21.1		
					Unc	Spatii ontrolled Exposu	1 al Peak re/General Pi	opulation												Head .6 W/kg (mW/g) raged over 1 gran							

FCC ID: A3LSMS936U	RF Exposure Part 1 Test Report	Approved by: Technical Manager
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Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]				Measured 1g SAR [W/kg]	Power Scaling Factor			Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	В	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	20.0	19.72	Back	10	0.200	1.067	0.213	0.213	0.133		26.7		
Hotspot	NR Band n41	100	В	1	1294M	1:1	-0.20	2592.99	518598	CW/SRS	20.0	19.72	Front	10	0.156	1.067	0.166	0.166	0.104		27.7	25.4	19.0
Hotspot	NR Band n41	100	В	1	1294M	1:1	-0.11	2592.99	518598	CW/SRS	20.0	19.72	Bottom	10	0.187	1.067	0.200	0.200	0.125		27.0	23.4	15.0
Hotspot	NR Band n41	100	В	1	1294M	1:1	-0.09	2592.99	518598	CW/SRS	20.0	19.72	Left	10	0.266	1.067	0.284	0.284	0.178	A70	25.4		
	ANSI/IEEE C95.1 1992 - SAFETY LIMIT															Body							
	Spatial Peak															1.6 W/kg (m	W/g)						
				Uncontro	lled Exposure/G	eneral Popul	lation									averaged over	1 gram						

Table 12-99

	14510 12 (•														
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path#	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported Ig SAR [W/kg]	Adjusted Ig SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#		Overall Plimit (dBm)	
Body-worn/Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	-0.07	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.86	1	1	Back	10	0.225	1.033	0.232	0.232	0.145	A71	27.3		
Body-worn/Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.82	135	0	Back	10	0.202	1.042	0.210	0.210	0.131		27.7	1 1	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.86	1	1	Front	10	0.152	1.033	0.157	0.157	0.098		29.0	i I	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	-0.03	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.82	135	0	Front	10	0.145	1.042	0.151	0.151	0.094		29.2	1 1	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.05	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.86	1	1	Bottom	10	0.217	1.033	0.224	0.224	0.140		27.4	26.5	20.0
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.02	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.82	135	0	Bottom	10	0.230	1.042	0.240	0.240	0.150		27.2	1 1	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.86	1	1	Left	10	0.262	1.033	0.271	0.271	0.169		26.6	1 1	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	21.0	20.82	135	0	Left	10	0.241	1.042	0.251	0.251	0.157		26.9	1 1	
Hotspot	NR Band n41	100	QPSK	В	2	1298M	1:1	0.04	2592.99	518598	CP-OFDM	0.0	21.0	20.77	1	1	Left	10	0.262	1.054	0.276	0.276	0.173		26.5	1 1	
	ANSI/REC US. 1 1992 - SAFETY UNITT Spatial Peak Uncontrolled Foreuran General Providation																	Body 6 W/kg (mW/g) raced over 1 era									

Table 12-100

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	D	1	1294M	1:1	-0.08	2592.99	518598	CW/SRS	16.5	16.01	Back	10	0.082	1.119	0.092	0.092	0.058		26.8		
Hotspot	NR Band n41	100	D	1	1294M	1:1	0.05	2592.99	518598	CW/SRS	16.5	16.01	Front	10	0.008	1.119	0.009	0.009	0.006		36.9	26.8	15.5
Hotspot	NR Band n41	100	D	1	1294M	1:1	-0.01	2592.99	518598	CW/SRS	16.5	16.01	Bottom	10	0.021	1.119	0.023	0.023	0.014		32.7	20.0	15.5
Hotspot	NR Band n41	100	D	1	1294M	1:1	0.01	2592.99	518598	CW/SRS	16.5	16.01	Right	10	0.000	1.119	0.000	0.000	0.000		56.0		
	ANSI/IEE CSS. 1982 - SAFETY LIMIT Spatal Peak Uncontrolled Expours/General Population															Body 1.6 W/kg (m averaged over							

Table 12-101

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	E	1	1294M	1:1	0.06	2592.99	518598	CW/SRS	18.5	18.24	Back	10	0.126	1.062	0.134	0.134	0.084		27.2		
Hotspot	NR Band n41	100	E	1	1294M	1:1	0.03	2592.99	518598	CW/SRS	18.5	18.24	Front	10	0.119	1.062	0.126	0.126	0.079		27.4	27.2	17.5
Hotspot	NR Band n41	100	E	1	1294M	1:1	-0.07	2592.99	518598	CW/SRS	18.5	18.24	Top	10	0.115	1.062	0.122	0.122	0.076		27.6	27.2	17.3
Hotspot	NR Band n41	100	E	1	1294M	1:1	-0.05	2592.99	518598	CW/SRS	18.5	18.24	Right	10	0.104	1.062	0.110	0.110	0.069		28.0		í I
				ANSI/	IEEE C95.1 1992 -		IT									Body							
				Uncontro	Spatial Per olled Exposure/Gr		ntion									1.6 W/kg (m averaged over							

Table 12-102

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Path #	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.42	1	1	Back	10	0.139	1.019	0.142	0.142	0.089		25.9		
Body-worn/Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.03	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.32	135	69	Back	10	0.122	1.042	0.127	0.127	0.079		26.4		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.06	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.42	1	1	Front	10	0.105	1.019	0.107	0.107	0.067		27.2		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.08	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.32	135	69	Front	10	0.095	1.042	0.099	0.099	0.062		27.5		
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.03	2592.99	518598	DFT-s-OFDM		17.5	17.42	1	1	Тор	10	0.249	1.019	0.254	0.254	0.159		23.4	23.1	16.5
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.05	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.32	135	69	Тор	10	0.243	1.042	0.253	0.253	0.158		23.4		1 1
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.01	2592.99	518598	CP-OFDM	0.0	17.5	17.24	1	1	Тор	10	0.258	1.062	0.274	0.274	0.171		23.1		1 1
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	-0.02	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.42	1	1	Left	10	0.029	1.019	0.030	0.030	0.019		32.7		1 1
Hotspot	NR Band n41	100	QPSK	F	1	1294M	1:1	0.00	2592.99	518598	DFT-s-OFDM	0.0	17.5	17.32	135	69	Left	10	0.014	1.042	0.015	0.015	0.009		35.8		
						NSI/IEEE C95.1 1 Spati ontrolled Exposu	al Peak													Body 6 W/kg (mW/g) aged over 1 gran							

12.27 NR Band n48 Standalone SAR

Table 12-103

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]		EFS Plimit [dBm]
Head	NR Band n48	40	С	1298M	1:1	0.05	3679.98	645332	CW/SRS	10.0	9.51	Right Cheek	0	0.000	1.119	0.000	0.000	0.000		49.5		
Head	NR Band n48	40	С	1298M	1:1	0.01	3679.98	645332	CW/SRS	10.0	9.51	Right Tilt	0	0.002	1.119	0.002	0.002	0.001		36.4	29.9	9.0
Head	NR Band n48	40	С	1298M	1:1	0.08	3679.98	645332	CW/SRS	10.0	9.51	Left Cheek	0	0.009	1.119	0.010	0.010	0.006		29.9	29.9	9.0
Head	NR Band n48	40	С	1298M	1:1	0.09	3679.98	645332	CW/SRS	10.0	9.51	Left Tilt	0	0.001	1.119	0.001	0.001	0.001		39.5		1 1
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Head							
			Un	Spa controlled Expos	tial Peak ure/General	Population									1.6 W/kg (m averaged over							

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n48	40	D	1298M	1:1	0.03	3624.99	641666	CW/SRS	8.5	8.29	Right Cheek	0	0.000	1.050	0.000	0.000	0.000		48.2		
Head	NR Band n48	40	D	1298M	1:1	0.02	3624.99	641666	CW/SRS	8.5	8.29	Right Tilt	0	0.000	1.050	0.000	0.000	0.000		48.2	48.2	7.5
Head	NR Band n48	40	D	1298M	1:1	0.06	3624.99	641666	CW/SRS	8.5	8.29	Left Cheek	0	0.000	1.050	0.000	0.000	0.000		48.2	40.2	7.5
Head	NR Band n48	40	D	1298M	1:1	-0.15	3624.99	641666	CW/SRS	8.5	8.29	Left Tilt	0	0.000	1.050	0.000	0.000	0.000		48.2		
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Head							
			Un	Spa controlled Expos	tial Peak sure/General	Population									1.6 W/kg (m averaged over							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power [dBm]		RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.01	3570.00	638000	DFT-s-OFDM	0.0	15.0	14.23	1	104	Right Cheek	0	0.582	1.194	0.695	0.695	0.434		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.06	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Right Cheek	0	0.570	1.119	0.638	0.638	0.399		16.9		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3679.98	645332	DFT-s-OFDM	0.0	15.0	14.45	1	104	Right Cheek	0	0.610	1.135	0.692	0.692	0.433		16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	15.0	14.18	50	28	Right Cheek	0	0.591	1.208	0.714	0.714	0.446		16.4		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Right Cheek	0	0.562	1.112	0.625	0.625	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.04	3679.98	645332	DFT-s-OFDM	0.0	15.0	14.46	50	56	Right Cheek	0	0.617	1.132	0.698	0.698	0.436	A72	16.5		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.01	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.47	100	0	Right Cheek	0	0.554	1.130	0.626	0.626	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.01	3624.99	641666	CP-OFDM	0.0	15.0	14.49	1	1	Right Cheek	0	0.568	1.125	0.639	0.639	0.399		16.9		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.05	3570.00	638000	DFT-s-OFDM	0.0	15.0	14.23	1	104	Right Tilt	0	0.562	1.194	0.671	0.671	0.419		16.7		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.03	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Right Tilt	0	0.564	1.119	0.631	0.631	0.394		16.9	16.4	14.0
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.01	3679.98	645332	DFT-s-OFDM	0.0	15.0	14.45	1	104	Right Tilt	0	0.600	1.135	0.681	0.681	0.426		16.6		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3570.00	638000	DFT-s-OFDM	0.0	15.0	14.18	50	28	Right Tilt	0	0.597	1.208	0.721	0.721	0.451		16.4		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Right Tilt	0	0.552	1.112	0.614	0.614	0.384		17.1		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.09	3679.98	645332	DFT-s-OFDM	0.0	15.0	14.46	50	56	Right Tilt	0	0.606	1.132	0.686	0.686	0.429		16.6		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.47	100	0	Right Tilt	0	0.553	1.130	0.625	0.625	0.391		17.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.05	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Left Cheek	0	0.177	1.119	0.198	0.198	0.124		22.0		
Head	NR Band n48	40	QPSK	F	1298M	1:1	-0.02	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Left Cheek	0	0.167	1.112	0.186	0.186	0.116		22.3		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.51	1	1	Left Tilt	0	0.289	1.119	0.323	0.323	0.202		19.9		
Head	NR Band n48	40	QPSK	F	1298M	1:1	0.08	3624.99	641666	DFT-s-OFDM	0.0	15.0	14.54	50	28	Left Tilt	0	0.285	1.112	0.317	0.317	0.198		19.9		
	ANS/FET CPS. 1992 - SAFTY LIMIT Spain Pail Uncentrolled Expount/General Population																		Head 5 W/kg (mW/g) aged over 1 gran	1						

Table 12-106

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n48	40	- 1	1298M	1:1	-0.03	3624.99	641666	CW/SRS	13.0	12.49	Right Cheek	0	0.390	1.125	0.439	0.439	0.274		16.5		
Head	NR Band n48	40	- 1	1298M	1:1	0.05	3624.99	641666	CW/SRS	13.0	12.49	Right Tilt	0	0.026	1.125	0.029	0.029	0.018		28.3	16.5	12.0
Head	NR Band n48	40	1	1298M	1:1	-0.03	3624.99	641666	CW/SRS	13.0	12.49	Left Cheek	0	0.328	1.125	0.369	0.369	0.231		17.3	10.5	12.0
Head	NR Band n48	40	- 1	1298M	1:1	0.00	3624.99	641666	CW/SRS	13.0	12.49	Left Tilt	0	0.026	1.125	0.029	0.029	0.018		28.3		
				ANSI/IEEE C95.1	1992 - SAFET	TY LIMIT									Head							
					tial Peak										1.6 W/kg (m							
			Un	controlled Expos	ure/General	Population									averaged over	1 gram						

Table 12-107

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio	Plot #	Plimit [dBm]		EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	С	1298M	1:1	0.03	3624.99	641666	CW/SRS	14.0	13.27	Back	10	0.062	1.183	0.073	0.073	0.046		25.3		
Hotspot	NR Band n48	40	С	1298M	1:1	0.21	3624.99	641666	CW/SRS	14.0	13.27	Front	10	0.035	1.183	0.041	0.041	0.026		27.8	22.0	13.0
Hotspot	NR Band n48	40	C	1298M	1:1	0.01	3624.99	641666	CW/SRS	14.0	13.27	Bottom	10	0.032	1.183	0.038	0.038	0.024		28.2	23.0	15.0
Hotspot	NR Band n48	40	С	1298M	1:1	-0.01	3624.99	641666	CW/SRS	14.0	13.27	Left	10	0.106	1.183	0.125	0.125	0.078		23.0		
				ANSI/IEEE C95.1		TY LIMIT									Body							
					tial Peak										1.6 W/kg (m	W/g)						
			Un	controlled Expos	ure/General	Population									averaged over	1 gram				1		

Table 12-108

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	D	1298M	1:1	-0.10	3624.99	641666	CW/SRS	12.5	12.05	Back	10	0.143	1.109	0.159	0.159	0.099		20.4		
Hotspot	NR Band n48	40	D	1298M	1:1	0.02	3624.99	641666	CW/SRS	12.5	12.05	Front	10	0.010	1.109	0.011	0.011	0.007		32.0	20.4	11.5
Hotspot	NR Band n48	40	D	1298M	1:1	0.07	3624.99	641666	CW/SRS	12.5	12.05	Bottom	10	0.025	1.109	0.028	0.028	0.018		28.0	20.4	11.5
Hotspot	NR Band n48	40	D	1298M	1:1	0.09	3624.99	641666	CW/SRS	12.5	12.05	Right	10	0.007	1.109	0.008	0.008	0.005		33.5		
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Body							
					tial Peak										1.6 W/kg (m							
			Un	controlled Expos	ure/General	Population									averaged over	1 gram						

Table 12-109

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)	Conducted Power (dBm)	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.11	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.25	1	1	Back	10	0.263	1.189	0.313	0.313	0.196	A73	24.0		
Body-worn/Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.02	3624.99		DFT-s-OFDM	0.0	19.0	18.28	50	28	Back	10	0.263	1.180	0.310	0.310	0.194		24.0		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.00	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.25	1	1	Front	10	0.213	1.189	0.253	0.253	0.158		24.9		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.01	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Front	10	0.211	1.180	0.249	0.249	0.156		25.0		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.01	3624.99		DFT-s-OFDM	0.0	19.0	18.25	1	1	Тор	10	0.405	1.189	0.482	0.482	0.301	A74	22.1	22.1	18.0
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.02	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Тор	10	0.391	1.180	0.461	0.461	0.288		22.3		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.01	3624.99	641666	CP-OFDM	0.0	19.0	18.23	1	1	Тор	10	0.402	1.194	0.480	0.480	0.300		22.1		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	-0.09	3624.99		DFT-s-OFDM	0.0	19.0	18.25	1	1	Left	10	0.068	1.189	0.081	0.081	0.051		29.9		1
Hotspot	NR Band n48	40	QPSK	F	1298M	1:1	0.03	3624.99	641666	DFT-s-OFDM	0.0	19.0	18.28	50	28	Left	10	0.068	1.180	0.080	0.080	0.050		29.9		
						95.1 1992 - S Spatial Peak xposure/Ger		on											Body W/kg (mW/g) aged over 1 gran	,						

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]		EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n48	40	_	1298M	1:1	-0.02	3624.99	641666	CW/SRS	17.0	16.26	Back	10	0.133	1.186	0.158	0.158	0.099		25.0		
Hotspot	NR Band n48	40		1298M	1:1	0.01	3624.99	641666	CW/SRS	17.0	16.26	Front	10	0.134	1.186	0.159	0.159	0.099		24.9	24.9	16.0
Hotspot	NR Band n48	40		1298M	1:1	-0.10	3624.99	641666	CW/SRS	17.0	16.26	Top	10	0.014	1.186	0.017	0.017	0.011		34.7	24.5	10.0
Hotspot	NR Band n48	40	_	1298M	1:1	0.07	3624.99	641666	CW/SRS	17.0	16.26	Left	10	0.061	1.186	0.072	0.072	0.045		28.4		
				ANSI/IEEE C95.1	1992 - SAFET	Y LIMIT									Body							
	Spatial Peak														1.6 W/kg (m	W/g)						
			Ur	controlled Expos	ure/General	Population									averaged over	1 gram						

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12.28 NR Band n77 Standalone SAR

Table 12-111

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n77	100	С	1313M	1:1	0.01	3750.00	650000	CW/SRS	11.0	10.87	Right Cheek	0	0.000	1.030	0.000	0.000	0.000		50.8		
Head	NR Band n77	100	C	1313M	1:1	0.03	3750.00	650000	CW/SRS	11.0	10.87	Right Tilt	0	0.005	1.030	0.005	0.005	0.003		33.8		í l
Head	NR Band n77 DoD	100	С	1313M	1:1	0.02	3500.01	633334	CW/SRS	11.0	10.57	Left Cheek	0	0.000	1.104	0.000	0.000	0.000		50.5	31.3	10.0
Head	NR Band n77	100	С	1313M	1:1	0.05	3750.00	650000	CW/SRS	11.0	10.87	Left Cheek	0	0.009	1.030	0.009	0.009	0.006		31.3		1 1
Head	NR Band n77	100	C	1313M	1:1	0.05	3750.00	650000	CW/SRS	11.0	10.87	Left Tilt	0	0.000	1.030	0.000	0.000	0.000		50.8		1
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Head							
			Un	Spa controlled Expo	tial Peak sure/General	Population									1.6 W/kg (m averaged over							

Table 12-112

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel#	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	NR Band n77	100	D	1313M	1:1	0.07	3750.00	650000	CW/SRS	10.0	9.86	Right Cheek	0	0.000	1.033	0.000	0.000	0.000		49.8		
Head	NR Band n77	100	D	1313M	1:1	0.04	3750.00	650000	CW/SRS	10.0	9.86	Right Tilt	0	0.000	1.033	0.000	0.000	0.000		49.8		i l
Head	NR Band n77 DoD	100	D	1313M	1:1	0.04	3500.01	633334	CW/SRS	10.0	9.48	Left Cheek	0	0.000	1.127	0.000	0.000	0.000		49.4	49.4	9.0
Head	NR Band n77	100	D	1313M	1:1	0.08	3750.00	650000	CW/SRS	10.0	9.86	Left Cheek	0	0.000	1.033	0.000	0.000	0.000		49.8		í l
Head	NR Band n77	100	D	1313M	1:1	0.05	3750.00	650000	CW/SRS	10.0	9.86	Left Tilt	0	0.000	1.033	0.000	0.000	0.000		49.8		1
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Head							
			Un	Spa controlled Expos	tial Peak ure/General	Population									1.6 W/kg (m averaged over							

Table 12-113

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR (dB)	Max Allowed Power (dBm)		RB Size	RB Offset	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Right Cheek	0	0.608	1.072	0.652	0.652	0.408		17.8		
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.06	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	271	Right Cheek	0	0.757	1.159	0.877	0.877	0.548		16.5	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Right Cheek	0	0.646	1.130	0.730	0.730	0.456		17.3	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.29	135	138	Right Cheek	0	0.744	1.178	0.876	0.876	0.548		16.5	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Right Cheek	0	0.647	1.153	0.746	0.746	0.466		17.2	, !	i l
Head	NR Band n77 DoD	100	QPSK	F	1313M	1:1	-0.01	3500.01	633334	DFT-s-OFDM	0.0	16.0	15.32	1	1	Right Tilt	0	0.739	1.169	0.864	0.864	0.540		16.6	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.07	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Right Tilt	0	0.834	1.072	0.894	0.894	0.559		16.4	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.07	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	271	Right Tilt	0	0.950	1.159	1.101	1.101	0.688	A75	15.5	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	271	Right Tilt	0	0.932	1.159	1.080	1.080	0.675		15.6	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Right Tilt	0	0.865	1.130	0.977	0.977	0.611		16.0	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.00	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.29	135	138	Right Tilt	0	0.944	1.178	1.112	1.112	0.695		15.5	15.5	15.0
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Right Tilt	0	0.908	1.153	1.047	1.047	0.654		15.7	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Right Tilt	0	0.898	1.153	1.035	1.035	0.647		15.8	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.01	3750.00	650000	CP-OFDM	0.0	16.0	15.78	1	1	Right Tilt	0	0.845	1.052	0.889	0.889	0.556		16.5	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.09	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Left Cheek	0	0.317	1.072	0.340	0.340	0.213		20.6	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Left Cheek	0	0.326	1.130	0.368	0.368	0.230		20.3	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.15	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.70	1	1	Left Tilt	0	0.388	1.072	0.416	0.416	0.260		19.8	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	-0.03	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.36	1	271	Left Tilt	0	0.401	1.159	0.465	0.465	0.291		19.3	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.47	135	0	Left Tilt	0	0.389	1.130	0.440	0.440	0.275		19.5	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	16.0	15.29	135	138	Left Tilt	0	0.414	1.178	0.488	0.488	0.305		19.1	, !	i l
Head	NR Band n77	100	QPSK	F	1313M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	16.0	15.38	270	0	Left Tilt	0	0.387	1.153	0.446	0.446	0.279		19.5		
Note: Ship gets records	nts variability measurement				ANSI/IEEE I	95.1 1992 - S Spatial Peak exposure/Ger		ion											Head W/kg (mW/g) aged over 1 gran							

Table 12-114

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		Overall Plimit [dBm]	Plimit
Head	NR Band n77 DoD	100	- 1	1313M	1:1	-0.04	3500.01	633334	CW/SRS	15.0	14.42	Right Cheek	0	0.248	1.143	0.283	0.283	0.177		20.4		
Head	NR Band n77	100	_	1313M	1:1	-0.04	3750.00	650000	CW/SRS	15.0	14.49	Right Cheek	0	0.389	1.125	0.438	0.438	0.274		18.5		i I
Head	NR Band n77	100	- 1	1313M	1:1	-0.02	3930.00	662000	CW/SRS	15.0	14.16	Right Cheek	0	0.292	1.213	0.354	0.354	0.221		19.5	18.5	14.0
Head	NR Band n77	100	- 1	1313M	1:1	-0.06	3750.00	650000	CW/SRS	15.0	14.49	Right Tilt	0	0.035	1.125	0.039	0.039	0.024		29.0	18.5	14.0
Head	NR Band n77	100	- 1	1313M	1:1	0.03	3750.00	650000	CW/SRS	15.0	14.49	Left Cheek	0	0.360	1.125	0.405	0.405	0.253		18.9		i I
Head	NR Band n77	100	_	1313M	1:1	0.07	3750.00	650000	CW/SRS	15.0	14.49	Left Tilt	0	0.039	1.125	0.044	0.044	0.028		28.5		
				ANSI/IEEE C95.1	1992 - SAFE	TY LIMIT									Head							
	Spatial Peak Uncontrolled Exposure/General Population													1.6 W/kg (m averaged over								

Table 12-115

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	С	1190M	1:1	0.07	3500.01	633334	CW/SRS	12.0	11.61	Back	10	0.074	1.094	0.081	0.081	0.051		22.9		
Body-worn/Hotspot	NR Band n77	100	С	1190M	1:1	-0.16	3750.00	650000	CW/SRS	12.0	11.81	Back	10	0.055	1.045	0.057	0.057	0.036		24.4		
Hotspot	NR Band n77	100	C	1190M	1:1	-0.15	3750.00	650000	CW/SRS	12.0	11.81	Front	10	0.022	1.045	0.023	0.023	0.014		28.3	22.7	11.0
Hotspot	NR Band n77	100	C	1190M	1:1	0.03	3750.00	650000	CW/SRS	12.0	11.81	Bottom	10	0.028	1.045	0.029	0.029	0.018		27.3	22.7	11.0
Hotspot	NR Band n77 DoD	100	С	1190M	1:1	-0.02	3500.01	633334	CW/SRS	12.0	11.61	Left	10	0.057	1.094	0.062	0.062	0.039		24.0		
Hotspot	NR Band n77	100	С	1190M	1:1	-0.17	3750.00	650000	CW/SRS	12.0	11.81	Left	10	0.080	1.045	0.084	0.084	0.053		22.7		
				ANSI/IEEE C95.1 Spa controlled Expos	tial Peak										Body 1.6 W/kg (m averaged over							

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	D	1190M	1:1	-0.13	3500.01	633334	CW/SRS	11.0	10.48	Back	10	0.119	1.127	0.134	0.134	0.084		19.7		
Body-worn/Hotspot	NR Band n77	100	D	1190M	1:1	0.15	3750.00	650000	CW/SRS	11.0	10.81	Back	10	0.095	1.045	0.099	0.099	0.062		21.0		
Hotspot	NR Band n77	100	D	1190M	1:1	0.03	3750.00	650000	CW/SRS	11.0	10.81	Front	10	0.003	1.045	0.003	0.003	0.002		36.0	19.7	10.0
Hotspot	NR Band n77	100	D	1190M	1:1	0.09	3750.00	650000	CW/SRS	11.0	10.81	Bottom	10	0.017	1.045	0.018	0.018	0.011		28.5		
Hotspot	NR Band n77	100	D	1190M	1:1	0.04	3750.00	650000	CW/SRS	11.0	10.81	Right	10	0.008	1.045	0.008	0.008	0.005		31.7		
	ANS/JEEE C95.1 1992 - SAFETY LIMIT Spatial Peak														Body 1.6 W/kg (m							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Waveform	MPR [dB]	Max Allowed Power [dBm]	Conducted Power [dBm]	RB Size	RB Offset	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	NR Band n77 DoD	100	F	1190M	1:1	-0.02	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.46	1	1	Back	10	0.191	1.132	0.216	0.216	0.135		24.6			
Body-worn/Hotspot	NR Band n77	100	QPSK	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Back	10	0.256	1.081	0.277	0.277	0.173	A76	23.5		i l	
Body-worn/Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.59	135	0	Back	10	0.256	1.099	0.281	0.281	0.176		23.5		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.06	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Front	10	0.241	1.081	0.261	0.261	0.163		23.8		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.01	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.59	135	0	Front	10	0.241	1.099	0.265	0.265	0.166		23.7		i l
Hotspot	NR Band n77 DoD	100	QPSK	F	1190M	1:1	-0.05	3500.01	633334	DFT-s-OFDM	0.0	18.0	17.46	1	1	Тор	10	0.355	1.132	0.402	0.402	0.251		21.9		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.03	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Тор	10	0.401	1.081	0.433	0.433	0.271		21.6	20.9	17.0
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.02	3930.00	662000	DFT-s-OFDM	0.0	18.0	17.53	1	1	Тор	10	0.332	1.114	0.370	0.370	0.231		22.3	20.9	17.0
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.02	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.59	135	0	Тор	10	0.393	1.099	0.432	0.432	0.270		21.6		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.05	3930.00	662000	DFT-s-OFDM	0.0	18.0	17.57	135	138	Тор	10	0.332	1.104	0.367	0.367	0.229		22.3		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.39	270	0	Тор	10	0.390	1.151	0.449	0.449	0.281		21.4		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	0.00	3750.00	650000	CP-OFDM	0.0	18.0	17.57	1	1	Тор	10	0.456	1.104	0.503	0.503	0.314	A77	20.9		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.05	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.66	1	1	Left	10	0.056	1.081	0.061	0.061	0.038		30.1		i l
Hotspot	NR Band n77	100	QPSK	F	1190M	1:1	-0.09	3750.00	650000	DFT-s-OFDM	0.0	18.0	17.59	135	0	Left	10	0.054	1.099	0.059	0.059	0.037		30.2		i l
	ANSI/IEEE CSS.1992-SAFETY LIMIT Spatial Pleask Uncontrolled Eupoure/General Population																	Body 6 W/kg (mW/g) aged over 1 gran	m							

Table 12-118

Exposure	Band / Mode	Bandwidth [MHz]	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	NR Band n77 DoD	100	_	1190M	1:1	-0.19	3500.01	633334	CW/SRS	16.0	15.40	Back	10	0.101	1.148	0.116	0.116	0.073		25.3		
Body-worn/Hotspot	NR Band n77	100	_	1190M	1:1	0.03	3750.00	650000	CW/SRS	16.0	15.47	Back	10	0.106	1.130	0.120	0.120	0.075		25.2	25.2	15.0
Hotspot	NR Band n77	100	1	1190M	1:1	0.09	3750.00	650000	CW/SRS	16.0	15.47	Front	10	0.072	1.130	0.081	0.081	0.051		26.8	25.2	15.0
Hotspot	NR Band n77	100	1	1190M	1:1	-0.08	3750.00	650000	CW/SRS	16.0	15.47	Left	10	0.077	1.130	0.087	0.087	0.054		26.6		1 1
				ANSI/IEEE C95.1	1992 - SAFET	YLIMIT									Body							
	Spatial Peak														1.6 W/kg (m	W/g)						
		Un	controlled Expos	ure/General	Population									averaged over	1 gram							

12.29 2.4 GHz WIFI Standalone SAR

Table 12-119

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	0.06	2437.00	6	1	14.0	12.80	Right Cheek	0	0.381	1.319	1.011	0.508	0.508	0.318	A78	16.9		
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	0.00	2437.00	6	1	14.0	12.80	Right Tilt	0	0.166	1.319	1.011	0.221	0.221	0.138		20.5	16.9	13.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	0.04	2437.00	6	1	14.0	12.80	Left Cheek	0	0.084	1.319	1.011	0.112	0.112	0.070		23.5	10.9	15.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	-0.04	2437.00	6	1	14.0	12.80	Left Tilt	0	0.058	1.319	1.011	0.077	0.077	0.048		25.1		
				ANSI/IEEI	E C95.1 1992 - SA												Head							
	Spatial Peak Uncontrolled Exposure/General Population																V/kg (mW/g)							
				Uncontrolled	a exposure/Gene	rai Populatio	n									averag	ed over 1 gram							

Table 12-120

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]			Max Allowed Power [dBm]				Measured 1g SAR [W/kg]				Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit	Overall Plimit [dBm]	Plimit
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	_	1262M	98.99	0.01	2437.00	6	1	14.0	13.30	Right Cheek	0	0.190	1.176	1.010	0.226	0.226	0.141		20.4		
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.05	2437.00	6	1	14.0	13.30	Right Tilt	0	0.025	1.176	1.010	0.030	0.030	0.019		29.2	18.6	13.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	-0.01	2437.00	6	1	14.0	13.30	Left Cheek	0	0.289	1.176	1.010	0.343	0.343	0.214		18.6	10.0	15.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	_	1262M	98.99	0.10	2437.00	6	1	14.0	13.30	Left Tilt	0	0.040	1.176	1.010	0.048	0.048	0.030		27.2		
	ANS/IEEE C95.1 1992 - SAFETY LIMIT Spatial Fee Uncontrolled Exposure/General Population																Head V/kg (mW/g) ed over 1 gram							

Table 12-121

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]		Max Allowed Power (2nd ant) [dBm]		Test Position	Spacing [mm]	Measured 1g SAR (W/kg)	Power Scaling Factor	Duty Cycle Scaling Factor			Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	-0.09	2437.00	6	1	14.0	12.69	14.0	13.24	Right Cheek	0	0.346	1.352	1.012	0.473	0.473	0.296		17.2		
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.00	2437.00	6	1	14.0	12.69	14.0	13.24	Right Tilt	0	0.111	1.352	1.012	0.152	0.152	0.095		22.1	17.2	13.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.02	2437.00	6	1	14.0	12.69	14.0	13.24	Left Cheek	0	0.258	1.352	1.012	0.353	0.353	0.221		18.5	17.2	15.0
Head	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	-0.12	2437.00	6	1	14.0	12.69	14.0	13.24	Left Tilt	0	0.045	1.352	1.012	0.062	0.062	0.039		26.1		
					ANSI/IEEE	C95.1 1992	SAFETY LIM	IT											Head							
	ANSI/IEEC C95.1 1992 - SAFETY LIMIT Spatial Peak																	1.61	W/kg (mW/g)							
																		averag	ged over 1 gram							
Note: To achieve the 1	7 dBm maximum allowed MIMO	power shown i	n the document	ation, each	antenna transmi	its at a maxir	num al lower	power of 14 dE	3m.																	

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]		Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	-0.04	2437.00	6	1	20.0	19.47	Back	10	0.275	1.130	1.011	0.314	0.321	0.201		25.0		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	0.04	2437.00	6	1	20.0	19.47	Front	10	0.223	1.130	1.011	0.255	0.261	0.163		25.9	22.8	20.1
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	0.01	2437.00	6	1	20.0	19.47	Top	10	0.201	1.130	1.011	0.230	0.235	0.147		26.3	22.0	20.1
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	Н	1262M	98.90	-0.02	2437.00	6	1	20.0	19.47	Left	10	0.452	1.130	1.011	0.516	0.528	0.330	A79	22.8		i
				ANSI/IEE	E C95.1 1992 - SA												Body							
	Spatial Peak																W/kg (mW/g)							
			L	Incontrolled	d Exposure/Gene	eral Population	on									averag	ged over 1 gram							

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Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power (dBm)		Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn/Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.00	2437.00	6	1	20.0	19.48	Back	10	0.112	1.127	1.010	0.127	0.413	0.258		28.9		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	-0.04	2437.00	6	1	20.0	19.48	Front	10	0.173	1.127	1.010	0.197	0.637	0.398		27.0	27.0	25.1
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.01	2437.00	6	1	20.0	19.48	Top	10	0.005	1.127	1.010	0.006	0.018	0.011		42.4	27.0	25.1
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	J	1262M	98.99	0.01	2437.00	6	1	20.0	19.48	Right	10	0.054	1.127	1.010	0.061	0.199	0.124		32.1		
				ANSI/IEEI		FETY LIMIT											Body							
	ANSI/IEEC 95. 1 1925 - SAFETY LIMIT Spatial Peak Uncontrolled Exposure/General Population												1				W/kg (mW/g)							
				Uncontrolled	Exposure/Gene	ral Populatio	n									avera	ged over 1 gram							

Table 12-124

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]		Max Allowed Power (2nd ant) [dBm]		Test Position	Spacing (mm)	Measured 1g SAR (W/kg)	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	-0.03	2437.00	6	1	20.0	19.20	20.0	19.95	Back	10	0.306	1.202	1.012	0.372	0.372	0.233	A80	24.2		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.01	2437.00	6	1	20.0	19.20	20.0	19.95	Front	10	0.337	1.202	1.012	0.410	0.410	0.256		23.8		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	-0.03	2437.00	6	1	20.0	19.20	20.0	19.95	Тор	10	0.169	1.202	1.012	0.206	0.206	0.129		26.8	22.6	19.6
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	0.02	2437.00	6	1	20.0	19.20	20.0	19.95	Right	10	0.095	1.202	1.012	0.116	0.116	0.073		29.3		
Hotspot	2.4 GHz WIFI/ IEEE 802.11b	20	DSSS	MIMO	1262M	98.82	-0.01	2437.00	6	1	20.0	19.20	20.0	19.95	Left	10	0.447	1.202	1.012	0.544	0.544	0.340		22.6		
					ANSI/IEE	E C95.1 1992	SAFETY LIM	IT											Body							
						Spatial Pe	ak								1			1.61	N/kg (mW/g)							
					Uncontrolled	Exposure/G	eneral Popu	lation										averag	ged over 1 gram							
Note: To achieve the 23	dBm maximum allowed MIMO	power shown in	n the document	ation, each	antenna transm	its at a maxis	num allower	power of 20 de	3m																	

12.30 5 GHz WIFI SISO Standalone SAR

Table 12-125

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power (dBm)		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor		Reported 1g SAR [W/kg]			Plot #	Plimit [dBm]	Overall Plimit [dBm]	
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	н	1159M	92.65	0.00	5270.00	54	U-NII-2A	13.5	14.0	13.13	Right Cheek	0	0.455	1.222	1.079	0.600	0.600	0.375	A81	16.2		-
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Н	1159M	96.60	-0.15	5690.00	138	U-NII-2C	29.3	14.0	12.27	Right Cheek	0	0.403	1.489	1.035	0.621	0.621	0.388		16.0		1
Head	d 5 GHz WIFI/ IEEE 802.11ac 80 OFDM H 1159M 96.60 -0.10 5									U-NII-3	29.3	14.0	12.61	Right Cheek	0	0.409	1.376	1.035	0.582	0.582	0.364		16.3		1
Head	5 GHz WIFI/ IEEE 802.11ac	5855.00	171	U-NII-4	29.3	14.0	13.11	Right Cheek	0	0.394	1.227	1.035	0.500	0.500	0.313		17.0		1						
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	Н	1159M	92.65	-0.08	5270.00	54	U-NII-2A	13.5	14.0	13.13	Right Tilt	0	0.148	1.222	1.079	0.195	0.195	0.122		21.0		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Н	1159M	96.60	0.09	5690.00	138	U-NII-2C	29.3	14.0	12.27	Right Tilt	0	0.130	1.489	1.035	0.200	0.200	0.125		20.9		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Н	1159M	96.60	0.03	5775.00	155	U-NII-3	29.3	14.0	12.61	Right Tilt	0	0.134	1.376	1.035	0.191	0.191	0.119		21.1		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Н	1159M	96.60	0.01	5855.00	171	U-NII-4	29.3	14.0	13.11	Right Tilt	0	0.131	1.227	1.035	0.166	0.166	0.104		21.7	16.0	13.0
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	Н	1159M	92.65	0.02	5270.00	54	U-NII-2A	13.5	14.0	13.13	Left Cheek	0	0.050	1.222	1.079	0.066	0.066	0.041		25.8	10.0	15.0
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	н	1159M	96.60	0.07	5690.00	138	U-NII-2C	29.3	14.0	12.27	Left Cheek	0	0.051	1.489	1.035	0.079	0.079	0.049		25.0		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	н	1159M	96.60	0.05	5775.00	155	U-NII-3	29.3	14.0	12.61	Left Cheek	0	0.032	1.376	1.035	0.046	0.046	0.029		27.4		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	н	1159M	96.60	0.07	5855.00	171	U-NII-4	29.3	14.0	13.11	Left Cheek	0	0.028	1.227	1.035	0.036	0.036	0.023		28.4		1
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	н	1159M	92.65	0.03	5270.00	54	U-NII-2A	13.5	14.0	13.13	Left Tilt	0	0.049	1.222	1.079	0.065	0.065	0.041		25.8		1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	н	1159M	96.60	0.03	5690.00	138	U-NII-2C	29.3	14.0	12.27	Left Tilt	0	0.055	1.489	1.035	0.085	0.085	0.053		24.7	1	1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Н	1159M	96.60	0.03	5775.00	155	U-NII-3	29.3	14.0	12.61	Left Tilt	0	0.040	1.376	1.035	0.057	0.057	0.036		26.4	1	1
Head	5 GHz WIFI/ IEEE 802.11ac													Left Tilt	0	0.032	1.227	1.035	0.041	0.041	0.026		27.9		
																		Head V/kg (mW/g) ed over 1 gram							

Table 12-126

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor		Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]		Plot#	Plimit (dBm)	Overall Plimit [dBm]	
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	E	1159M	92.61	-0.01	5310.00	62	U-NII-2A	13.5	14.0	13.23	Right Cheek	0	0.062	1.194	1.080	0.080	0.090	0.050		24.9		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	E	1159M	96.62	0.04	5690.00	138	U-NII-2C	29.3	14.0	12.91	Right Cheek	0	0.077	1.285	1.035	0.102	0.102	0.064		23.8	. 1	1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	E	1159M	96.62	0.03	5775.00	155	U-NII-3	29.3	14.0	12.86	Right Cheek	0	0.078	1.300	1.035	0.105	0.105	0.066		23.7	. 1	1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	E	1159M	96.62	0.09	5855.00	171	U-NII-4	29.3	14.0	13.14	Right Cheek	0	0.092	1.219	1.035	0.116	0.116	0.073		23.3	. 1	1
Head	5 GHz WIFI/ IEEE 802.11n	1159M	92.61	0.03	5310.00	62	U-NII-2A	13.5	14.0	13.23	Right Tilt	0	0.060	1.194	1.080	0.077	0.077	0.048		25.1	. 1	1			
Head	5 GHz WIFI/ IEEE 802.11ac	80 80	OFDM	1159M 1159M	96.62 96.62	0.04	5690.00	138	U-NII-2C	29.3	14.0	12.91	Right Tilt	0	0.061	1.285	1.035	0.081	0.081	0.051		24.9	. 1	1	
Head	5 GHz WIFI/ IEEE 802.11ac	5775.00	155	U-NII-3	29.3	14.0	12.86	Right Tilt	0	0.060	1.300	1.035	0.081	0.081	0.051		24.9	. 1	1						
Head	5 GHz WIFI/ IEEE 802.11ac	5855.00	171	U-NII-4	29.3	14.0	13.14	Right Tilt	0	0.074	1.219	1.035	0.093	0.093	0.058		24.2	23.3	13.0						
Head				14.0	13.23 12.91	Left Cheek	0	0.081	1.194	1.080	0.104	0.104	0.065		23.8	23.3	13.0								
Head	5 GHz WIFI/ IEEE 802.11n 40 OFDM E 1159M 92.61 -0.09 5310.00 62 U-NII-2A 13.5 5 GHz WIFI/ IEEE 802.11ac 80 OFDM E 1159M 96.62 0.03 5690.00 138 U-NII-2C 29.3													Left Cheek	0	0.075	1.285	1.035	0.100	0.100	0.063		24.0	. 1	
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Ε	1159M	96.62	0.01	5775.00	155	U-NII-3	29.3	14.0	12.86	Left Cheek	0	0.084	1.300	1.035	0.113	0.113	0.071		23.4	. 1	1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	Ε	1159M	96.62	0.06	5855.00	171	U-NII-4	29.3	14.0	13.14	Left Cheek	0	0.079	1.219	1.035	0.100	0.100	0.063		24.0	. 1	1
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	Ε	1159M	92.61	0.03	5310.00	62	U-NII-2A	13.5	14.0	13.23	Left Tilt	0	0.049	1.194	1.080	0.063	0.063	0.039		25.9	. 1	1
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	E	1159M	96.62	-0.09	5690.00	138	U-NII-2C	29.3	14.0	12.91	Left Tilt	0	0.081	1.285	1.035	0.108	0.108	0.068		23.6	. 1	1
Head	5 GHz WIFI/ IEEE 802.11ac	155	U-NII-3	29.3	14.0	12.86	Left Tilt	0	0.065	1.300	1.035	0.087	0.087	0.054		24.5	. 1	1							
Head	5 GHz WIFI/ IEEE 802.11ac	96.62	0.02	5855.00	171	U-NII-4	29.3	14.0	13.14	Left Tilt	0	0.074	1.219	1.035	0.093	0.093	0.058		24.2						
		GHz WIFI/ IEEE 802.11ac 80 OF DM E 1159M 96.62 0.02 5855.00 171 U-NII ANS/IEEE C95.11992 - SAFETY LIMIT Sozital Peak																Head							
				Unco	Spatia ntrolled Exposu		opulation											W/kg (mW/g) ged over 1 gram							

Table 12-127

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]				Adjusted 1g SAR [W/kg]				EFS Plimit [dBm]
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	-0.16	5280.00	56	U-NII-2A	6	17.0	16.69	Back	10	0.237	1.074	1.035	0.263	0.263	0.164	22.7		
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	-0.21	5720.00	144	U-NII-2C	6	17.0	16.69	Back	10	0.474	1.074	1.035	0.527	0.527	0.329	19.7		1 1
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.05	5845.00	169	U-NII-4	6	17.0	16.89	Back	10	0.280	1.026	1.035	0.297	0.297	0.186	22.2		1
Body-worn/Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	0.04	5825.00	165	U-NII-3	6	17.0	16.97	Back	10	0.388	1.007	1.035	0.404	0.404	0.253	20.9	19.7	16.0
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	0.13	5825.00	165	U-NII-3	6	17.0	16.97	Front	10	0.149	1.007	1.035	0.155	0.155	0.097	25.0		1
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	0.06	5825.00	165	U-NII-3	6	17.0	16.97	Top	10	0.117	1.007	1.035	0.122	0.122	0.076	26.1		1
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1156M	96.60	0.00	5825.00	165	U-NII-3	6	17.0	16.97	Left	10	0.445	1.007	1.035	0.464	0.464	0.290	20.3		1
											Body N/kg (mW/g) ed over 1 gram													

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power (dBm)	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR (W/kg)	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit (dBm)	EFS Plimit (dBm)
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.08	5300.00	60	U-NII-2A	6	17.0	16.94	Back	10	0.328	1.015	1.035	0.345	0.345	0.216		21.6		-
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.07	5720.00	144	U-NII-2C	6	17.0	16.98	Back	10	0.347	1.005	1.035	0.361	0.361	0.226		21.4	. !	1
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	+0.12	5865.00	173	U-NII-4	6	17.0	16.72	Back	10	0.380	1.067	1.035	0.420	0.420	0.263		20.7	. !	1
Body-worn/Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.08	5825.00	165	U-NII-3	6	17.0	16.63	Back	10	0.365	1.089	1.035	0.411	0.411	0.257		20.8	20.7	16.0
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.01	5825.00	165	U-NII-3	6	17.0	16.63	Front	10	0.057	1.089	1.035	0.064	0.064	0.040		28.9	. !	1
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.21	5825.00	165	U-NII-3	6	17.0	16.63	Top	10	0.214	1.089	1.035	0.241	0.241	0.151		23.1	. !	1
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.03	5825.00	165	U-NII-3	6	17.0	16.63	Right	10	0.046	1.089	1.035	0.052	0.052	0.033		29.8	. !	1
	5 GH: WHY/EEE 802.11s 20 OFFIM E 1159M 96.62 0.83 5.875.00 165 U.NII-3 6 17:0 16.65 Right ANAPIEE CSS.1392-2-SAFTY MINT ASSIGNATE CSS.1392-2-SAFTY MINT Special Peak Unicontrolled Topious/Glornal Population																	Body W/kg (mW/g) ed over 1 gram							
				_																				_	-

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Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle (%)	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power (dBm)		Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	+0.11	5280.00	56	U-NII-2A	6	17.0	16.69	Back	0	0.636	1.074	1.035	0.707	0.707	0.177		22.4		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	-0.16	5720.00	144	U-NII-2C	6	17.0	16.69	Back	0	0.829	1.074	1.035	0.922	0.922	0.231		21.3		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.00	5845.00	169	U-NII-4	6	17.0	16.89	Back	0	0.810	1.026	1.035	0.860	0.860	0.215		21.6		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	-0.02	5280.00	56	U-NII-2A	6	17.0	16.69	Front	0	0.806	1.074	1.035	0.896	0.896	0.224		21.4		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.01	5720.00	144	U-NII-2C	6	17.0	16.69	Front	0	0.813	1.074	1.035	0.904	0.904	0.226		21.4		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	-0.03	5845.00	169	U-NII-4	6	17.0	16.89	Front	0	0.798	1.026	1.035	0.847	0.847	0.212		21.6		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	+0.05	5280.00	56	U-NII-2A	6	17.0	16.69	Top	0	0.251	1.074	1.035	0.279	0.279	0.070		26.5		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	-0.02	5720.00	144	U-NII-2C	6	17.0	16.69	Top	0	0.288	1.074	1.035	0.320	0.320	0.080		25.9		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.11	5845.00	169	U-NII-4	6	17.0	16.89	Top	0	0.266	1.026	1.035	0.282	0.282	0.071		26.4	17.1	16.0
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	-0.03	5280.00	56	U-NII-2A	6	17.0	16.69	Left	0	1.390	1.074	1.035	1.545	1.545	0.386		19.0		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.03	5500.00	100	U-NII-2C	6	17.0	16.51	Left	0	1.380	1.120	1.035	1.600	1.600	0.400		18.9		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	0.06	5620.00	124	U-NII-2C	6	17.0	16.31	Left	0	1.690	1.171	1.035	2.048	2.048	0.512		17.8		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.06	5720.00	144	U-NII-2C	6	17.0	16.69	Left	0	2.080	1.074	1.035	2.312	2.312	0.578		17.3		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	0.03	5720.00	144	U-NII-2C	6	17.0	16.69	Left	0	2.020	1.074	1.035	2.245	2.245	0.561		17.4		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	н	1159M	96.60	0.01	5845.00	169	U-NII-4	6	17.0	16.89	Left	0	2.240	1.026	1.035	2.379	2.379	0.595		17.2		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.03	5865.00	173	U-NII-4	6	17.0	16.88	Left	0	2.280	1.028	1.035	2.426	2.426	0.607		17.1		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	Н	1159M	96.60	0.04	5885.00	177	U-NII-4	6	17.0	16.89	Left	0	2.190	1.026	1.035	2.326	2.326	0.582		17.3		
Note: Blue entry record	ents variability measurement				NSI/IEEE C95.1 1 Spatia ontrolled Exposu	il Peak												Phablet W/kg (mW/g) ed over 10 grams							

Table 12-130

Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power (dBm)	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor		Reported 10g SAR [W/kg]		Exposure Ratio (10g SAR)	Plot#	Plimit	Overall Plimit (dBm)	EFS Plimit
Phablet	5 GHz WIFI/ IEEE 802.11a	20	MDTO	E	1159M	96.62	0.00	5300.00	60	U-NII-2A	6	17.0	16.94	Back	0	0.934	1.015	1.035	0.981	0.981	0.245		21.0		
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.01	5720.00	144	U-NII-2C	6	17.0	16.98	Back	0	0.903	1.005	1.035	0.939	0.939	0.235		21.2	. '	1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.01	5885.00	177	U-NII-4	6	17.0	16.72	Back	0	0.915	1.067	1.035	1.010	1.010	0.253		20.9	. '	1 1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.01	5300.00	60	U-NII-2A	6	17.0	16.94	Front	0	0.259	1.015	1.035	0.272	0.272	0.068		26.6	. '	1 1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.17	5720.00	144	U-NII-2C	6	17.0	16.98	Front	0	0.214	1.005	1.035	0.223	0.223	0.056		27.5	. '	1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.03	5885.00	177	U-NII-4	6	17.0	16.72	Front	0	0.251	1.067	1.035	0.277	0.277	0.069		26.5	'	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.03	5300.00	60	U-NII-2A	6	17.0	16.94	Top	0	0.311	1.015	1.035	0.327	0.327	0.082		25.8	20.9	16.0
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.12	5720.00	144	U-NII-2C	6	17.0	16.98	Top	0	0.340	1.005	1.035	0.354	0.354	0.089		25.4	. '	1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	MDTO	E	1159M	96.62	-0.04	5885.00	177	U-NII-4	6	17.0	16.72	Top	0	0.412	1.067	1.035	0.455	0.455	0.114		24.4	. '	1 1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	0.05	5300.00	60	U-NII-2A	6	17.0	16.94	Right	0	0.040	1.015	1.035	0.042	0.042	0.011		34.7	. '	1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.12	5720.00	144	U-NII-2C	6	17.0	16.98	Right	0	0.109	1.005	1.035	0.113	0.113	0.028		30.4		1
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	E	1159M	96.62	-0.07	5885.00	177	U-NII-4	6	17.0	16.72	Right	0	0.077	1.067	1.035	0.085	0.085	0.021		31.6		
					NSI/IEEE C95.1 1 Spatis ontrolled Exposu	il Peak											4.0	Phablet N/kg (mW/g) od over 10 grams							

Table 12-131

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power [dBm]		Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) [d8m]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #		Overall Plimit [d8m]	EFS Plimit (dBm)
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	MIMO	1159M	92.79	-0.03	5270.00	54	U-NII-2A	27	14.0	13.22	14.0	13.06	Right Cheek	0	0.286	1.242	1.078	0.383	0.383	0.239		18.1	-	
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.03	5690.00	138	U-NII-2C	58.5	14.0	12.22	14.0	12.98	Right Cheek	0	0.356	1.507	1.034	0.555	0.555	0.347		16.5		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	-0.09	5775.00	155	U-NII-3	58.5	14.0	12.31	14.0	13.10	Right Cheek	0	0.284	1.476	1.034	0.433	0.433	0.271		17.6		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	-0.07	5855.00	171	U-NII-4	58.5	14.0	12.80	14.0	13.22	Right Cheek	0	0.288	1.319	1.034	0.393	0.393	0.246		18.0		
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	MIMO	1159M	92.79	0.11	5270.00	54	U-NII-2A	27	14.0	13.22	14.0	13.06	Right Tilt	0	0.139	1.242	1.078	0.186	0.186	0.116		21.3		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.02	5690.00	138	U-NII-2C	58.5	14.0	12.22	14.0	12.98	Right Tilt	0	0.109	1.507	1.034	0.170	0.170	0.106		21.6		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.04	5775.00	155	U-NII-3	58.5	14.0	12.31	14.0	13.10	Right Tilt	0	0.138	1.476	1.034	0.211	0.211	0.132		20.7		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	-0.06	5855.00	171	U-NII-4	58.5	14.0	12.80	14.0	13.22	Right Tilt	0	0.171	1.319	1.034	0.233	0.233	0.146		20.3	16.5	13.0
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	MIMO	1159M	92.79	0.05	5270.00	54	U-NII-2A	27	14.0	13.22	14.0	13.06	Left Cheek	0	0.077	1.242	1.078	0.103	0.103	0.064		23.8	10.5	15.0
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.02	5690.00	138	U-NII-2C	58.5	14.0	12.22	14.0	12.98	Left Cheek	0	0.108	1.507	1.034	0.168	0.168	0.105		21.7		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.07	5775.00	155	U-NII-3	58.5	14.0	12.31	14.0	13.10	Left Cheek	0	0.087	1.476	1.034	0.133	0.133	0.083		22.7		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.07	5855.00	171	U-NII-4	58.5	14.0	12.80	14.0	13.22	Left Cheek	0	0.124	1.319	1.034	0.169	0.169	0.106		21.7		
Head	5 GHz WIFI/ IEEE 802.11n	40	OFDM	MIMO	1159M	92.79	0.06	5270.00	54	U-NII-2A	27	14.0	13.22	14.0	13.06	Left Tilt	0	0.081	1.242	1.078	0.108	0.108	0.068		23.6		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.15	5690.00	138	U-NII-2C	58.5	14.0	12.22	14.0	12.98	Left Tilt	0	0.073	1.507	1.034	0.114	0.114	0.071		23.4		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	-0.18	5775.00	155	U-NII-3	58.5	14.0	12.31	14.0	13.10	Left Tilt	0	0.092	1.476	1.034	0.140	0.140	0.088		22.5		
Head	5 GHz WIFI/ IEEE 802.11ac	80	OFDM	MIMO	1159M	96.68	0.04	5855.00	171	U-NII-4	58.5	14.0	12.80	14.0	13.22	Left Tilt	0	0.086	1.319	1.034	0.117	0.117	0.073		23.3		
	dRm maximum allowed MIMO now				Unc	S ₁ ontrolled Exp	.1 1992 - SAF patial Peak osure/Genera	l Population												Head W/kg (mW/g) ged over 1 gram							

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation		Serial Number	[94]	[d8]	Frequency [MHz]	Channel #	U-NII band		Max Allowed Power [dBm]	Power [dBm]	ant) [d8m]	Power (2nd ant) [d8m]		Spacing [mm]	SAR [W/kg]	Factor	Duty Cycle Scaling Factor	SAR [W/kg]	SAR [W/kg]	(1g SAR)	Plot #	Plimit [d8m]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.11	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Back	10	0.286	1.057	1.034	0.313	0.313	0.196		22.0		
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.05	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Back	10	0.440	1.072	1.034	0.488	0.488	0.305		20.1		i l
Body-worn	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.15	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Back	10	0.440	1.167	1.034	0.531	0.531	0.332		19.7		i l
Body-worn/Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.05	5825.00	165	U-NII-3	13	17.0	16.27	17.0	16.63	Back	10	0.448	1.183	1.034	0.548	0.548	0.343	A82	19.6	19.6	16.0
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.09	5825.00	165	U-NII-3	13	17.0	16.27	17.0	16.63	Front	10	0.135	1.183	1.034	0.165	0.165	0.103		24.8	19.6	16.0
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.00	5825.00	165	U-NII-3	13	17.0	16.27	17.0	16.63	Тор	10	0.347	1.183	1.034	0.424	0.424	0.265		20.7		i l
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	80.0	5825.00	165	U-NII-3	13	17.0	16.27	17.0	16.63	Right	10	0.048	1.183	1.034	0.059	0.059	0.037		29.3		i l
Hotspot	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.01	5825.00	165	U-NII-3	13	17.0	16.27	17.0	16.63	Left	10	0.417	1.183	1.034	0.510	0.510	0.319		19.9		i l
					A	NSI/IEEE C95	1 1992 - SAF	ETY LIMIT												Body							
						Sp	atial Peak												1.6	W/kg (mW/g)							
					Unco	ontrolled Exp	osure/Genera	al Population											avera	ged over 1 gram							
Note: To achieve the 20 o	dBm maximum allowed MIMO pov	ver shown in the	documentation, e	ach antenna	transmits at a m	aximum allov	ved power of	17 dBm.																			

FCC ID: A3LSMS936U	RF Exposure Part 1 Test Report	Approved by: Technical Manager
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Exposure	Band / Mode	Bandwidth (MHz)	Service / Modulation		Serial Number	[~]	Power Drift (dB)	Frequency [MHz]	Channel #	U-NII band	Data Rate [Mbps]	Max Allowed Power [dBm]	Power [dBm]	ant) [dBm]		Test Position	Spacing (mm)	SAR [W/kg]	Factor	Duty Cycle Scaling Factor	SAR [W/kg]	SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#	Plimit (dBm)	Overall EFS Plimit Plim (dBm) (dBr
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.08	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Back	0	0.891	1.057	1.034	0.974	0.974	0.244		21.0	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.05	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Back	0	1.030	1.072	1.034	1.142	1.142	0.286		20.4	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Back	0	0.847	1.167	1.034	1.022	1.022	0.256		20.8	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.06	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Front	0	0.849	1.057	1.034	0.928	0.928	0.232		21.3	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	+0.06	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Front	0	0.856	1.072	1.034	0.949	0.949	0.237		21.2	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.01	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Front	0	0.736	1.167	1.034	0.888	0.888	0.222		21.4	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.01	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Тор	0	0.350	1.057	1.034	0.383	0.383	0.096		25.1	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.11	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Top	0	0.395	1.072	1.034	0.438	0.438	0.110		24.5	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.03	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Top	0	0.481	1.167	1.034	0.580	0.580	0.145		23.3	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.17	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Right	0	0.052	1.057	1.034	0.057	0.057	0.014		33.4	16.2 16.0
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.16	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Right	0	0.121	1.072	1.034	0.134	0.134	0.034		29.7	10.2 10.3
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.02	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Right	0	0.078	1.167	1.034	0.094	0.094	0.024		31.2	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.00	5280.00	56	U-NII-2A	13	17.0	16.89	17.0	16.76	Left	0	1.370	1.057	1.034	1.497	1.497	0.374		19.2	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.05	5500.00	100	U-NII-2C	13	17.0	16.60	17.0	16.96	Left	0	1.280	1.096	1.034	1.451	1.451	0.363		19.3	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.04	5600.00	120	U-NII-2C	13	17.0	16.43	17.0	16.74	Left	0	1.510	1.140	1.034	1.780	1.780	0.445		18.4	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.09	5720.00	144	U-NII-2C	13	17.0	16.70	17.0	16.98	Left	0	1.850	1.072	1.034	2.051	2.051	0.513		17.8	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.01	5845.00	169	U-NII-4	13	17.0	16.43	17.0	16.61	Left	0	2.400	1.140	1.034	2.829	2.829	0.707		16.4	
Phablet	5 GHz W1FI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.02	5865.00	173	U-NII-4	13	17.0	16.30	17.0	16.71	Left	0	2.410	1.175	1.034	2.928	2.928	0.732		16.3	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	-0.01	5865.00	173	U-NII-4	13	17.0	16.30	17.0	16.71	Left	0	2.420	1.175	1.034	2.940	2.940	0.735	A83	16.2	
Phablet	5 GHz WIFI/ IEEE 802.11a	20	OFDM	MIMO	1159M	96.68	0.03	5885.00	177	U-NII-4	13	17.0	16.33	17.0	16.73	Left	0	2.320	1.167	1.034	2.799	2.799	0.700		16.5	
							atial Peak	ETY LIMIT											4.01	Phablet N/kg (mW/g) ed over 10 grams						
	ents variability measurement I dBm maximum allowed MIMO	power shown i	n the document	ation, each	antenna transm	its at a maxin	num allowe	d power of 17 dE	im.																	

12.31 6 GHz WIFI SISO Standalone SAR and APD

Table 12-134

										~~.														
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]		Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1	Exposure Ratio (1g SAR	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.01	5985.00	7	34	10.0	9.67	Right Cheek	0	0.127	1.079	1.007	0.138	0.138	0.086		18.6		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.03	6305.00	71	34	10.0	9.35	Right Cheek	0	0.090	1.161	1.007	0.105	0.105	0.066		19.7		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.02	6465.00	103	34	10.0	9.23	Right Cheek	0	0.076	1.194	1.007	0.091	0.091	0.057		20.3		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.02	6705.00	151	34	10.0	9.45	Right Cheek	0	0.125	1.135	1.007	0.143	0.143	0.089	A84	18.4	18.4	9.0
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.02	7025.00	215	34	10.0	9.76	Right Cheek	0	0.085	1.057	1.007	0.090	0.090	0.056		20.4	10.4	5.0
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Right Tilt	0	0.026	1.057	1.007	0.028	0.028	0.018		25.5		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Cheek	0	0.015	1.057	1.007	0.016	0.016	0.010		27.9		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Tilt	0	0.016	1.057	1.007	0.017	0.017	0.011		27.6		
			U		EE C95.1 1992 - SA Spatial Peak ed Exposure/Gene		ion									1.6 W	Head I/kg (mW/g) ed over 1 gram							
Exposure	Band/ Mode	Bandwi [MHz			Ant. Seria	Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate [Mbps]	Max Allowed Power [dBm]	Conducted Power [dBm		on Spacing [n	(W/m² (4	d APD Power			eported APD A			Exposure Ratio	Plot#
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	H 1	295M	99.27	0.01	5985.00	7	34	10.0	9.67	Right Che	ek 0	0.64	3 1.0	079	1.007	0.699	0.699	- 0	0.035	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFC	M	H 1	295M	99.27	0.03	6305.00	71	34	10.0	9.35	Right Che	ek 0	0.50	4 1.:	161	1.007	0.589	0.589	- 0	0.029	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFC	M	H 1	295M	99.27	0.02	6465.00	103	34	10.0	9.23	Right Che	ek 0	0.44	2 1.:	194	1.007	0.531	0.531	- 0	0.027	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	H 1	295M	99.27	0.02	6705.00	151	34	10.0	9.45	Right Che	ek 0	0.68	1 1.:	135	1.007	0.778	0.778	- 0	0.039	A84
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	Н 1	295M	99.27	0.02	7025.00	215	34	10.0	9.76	Right Che	ek 0	0.45	0 1.0	057	1.007	0.479	0.479		0.024	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFE	M	H 1	295M	99.27	0.04	7025.00	215	34	10.0	9.76	Right Till	t 0	0.18	1 1.0	057	1.007	0.193	0.193	(0.010	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	H 1	295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Chee	k 0	0.12	2 1.0	057	1.007	0.130	0.130	(0.007	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFE	M	H 1	295M	99.27	0.04	7025.00	215	34	10.0	9.76	Left Tilt	0	0.09	0 1.0	057	1.007	0.096	0.096		0.005	

Table 12-135

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	(%)	Power Drift [dB]	Frequency [MHz]	Channel#		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]		Duty Cycle Scaling Factor		g Adjusted 1g		Plot#	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.08	6465.00	103	34	10.0	9.95	Right Cheek	0	0.072	1.012	1.004	0.073	0.073	0.046		21.3		
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.04	6465.00	103	34	10.0	9.95	Right Tilt	0	0.057	1.012	1.004	0.058	0.058	0.036		22.3	21.3	9.0
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	10.0	9.95	Left Cheek	0	0.059	1.012	1.004	0.060	0.060	0.038		22.2	1	1 3.0
Head	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.05	6465.00	103	34	10.0	9.95	Left Tilt	0	0.051	1.012	1.004	0.052	0.052	0.033		22.8		į .
					E C95.1 1992 - SA Spatial Peak d Exposure/Gene		n										Head V/kg (mW/g) ed over 1 gram							
Exposure	Band/ Mode	Bandwi [MHz			Ant. Seria	Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]			ion Spacing [mm] Measure [W/m² (d APD Power 4cm²)] Fa		Outy Cycle Realing Factor [W				Exposure Ratio	Plot#
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	E 1	295M	99.56	0.08	6465.00	103	34	10.0	9.95	Right Che	ek 0	0.54	1 1.	012	1.004	0.550	0.550		0.028	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFC	M	E 1	295M	99.56	0.04	6465.00	103	34	10.0	9.95	Right Til	t 0	0.38	7 1.	012	1.004	0.393	0.393		0.020	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFC	M	E 1	295M	99.56	0.09	6465.00	103	34	10.0	9.95	Left Chee	k 0	0.27	1.	012	1.004	0.278	0.278		0.014	
Head	6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	E 1	295M	99.56	0.05	6465.00	103	34	10.0	9.95	Left Tilt	. 0	0.19	1.	012	1.004	0.199	0.199		0.010	

Table 12-136

Exposur		Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift (dB)	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position		Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Rat (1g SAR)	lo Plot#		Overall Plimit [dBm]	EFS Plimit [dBm]
Body-wo	n 6 GHz WIFI/ IEEE 802.11ax	80	OFDM	H	1295M	99.27	0.05	6305.00	71	34	11.5	10.90	Back	10	0.034	1.148	1.007	0.039	0.039	0.024		25.5	25.5	10.5
			ı		E C95.1 1992 - SA Spatial Peak d Exposure/Gene		on									1.6 W	Body /kg (mW/g) d over 1 gram							
Exposu	re Band/ Mode	Bandwid [MHz]	th Servi Moduli		Ant. Serial	Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #			Conducted Power [dBm		on Spacing [r	mm] Measured [W/m² (4	APD Power cm²)] Fac	Scaling Du tor Scal	ity Cycle Ri ing Factor [V	ported APD //m² (4cm²)]	Adjusted Al W/m² (4cm	PD APD	Exposure Ratio	Plot#
Body-w	om 6 GHz WIFI/ IEEE 802.11a	x 80	OFD	M	H 1	295M	99.27	0.05	6305.00	71	34	11.5	10.90	Back	10	0.267	1.1	148	1.007	0.309	0.309		0.015	

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing (mm)	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor		Adjusted 1g SAR [W/kg]		Plot#	Plimit	Overall Plimit [dBm]	EFS Plimit DSI 0 [dBm]	EFS Plimit Pmax [dBm]
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.03	5985.00	7	34	11.5	10.78	Back	10	0.057	1.180	1.004	0.068	0.068	0.043		23.2			
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.01	6305.00	71	34	11.5	11.10	Back	10	0.117	1.096	1.004	0.129	0.129	0.081	A85	20.3			1
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	11.0	10.92	Back	10	0.074	1.019	1.004	0.076	0.644	0.403		22.2	20.3	10.5	22.2
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.06	6705.00	151	34	11.5	10.68	Back	10	0.028	1.208	1.004	0.034	0.034	0.021		26.1			1
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	7025.00	215	34	11.0	10.99	Back	10	0.034	1.002	1.004	0.034	0.291	0.182		25.6			1
			U		C95.1 1992 - SA Spatial Peak Exposure/Gene		on										Body N/kg (mW/g) ged over 1 gram								

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Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]				Conducted Power [dBm]	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.03	5985.00	7	34	11.5	10.78	Back	10	0.375	1.180	1.004	0.444	0.444	0.022	
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.01	6305.00	71	34	11.5	11.10	Back	10	0.876	1.096	1.004	0.964	0.964	0.048	A85
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	6465.00	103	34	11.0	10.92	Back	10	0.542	1.019	1.004	0.555	8.012	0.401	
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.06	6705.00	151	34	11.5	10.68	Back	10	0.152	1.208	1.004	0.184	0.184	0.009	
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.56	0.09	7025.00	215	34	11.0	10.99	Back	10	0.208	1.002	1.004	0.209	3.026	0.151	

										ıaı	ו שונ	<u> 2</u> -13	0												
Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel#	Data Rate [Mbps]	Max Allowed Power [dBm]		Test Position	n Spacing (mr	n] Measured 10 SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor		Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#	Plimit	Plimit	Plimit DSI 0	EFS Plimit Pmax [dBm]
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	-0.09	6305.00	71	34	11.5	10.90	Back	0	0.206	1.148	1.007	0.238	0.238	0.060		21.7			-
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.01	6305.00	71	34	11.5	10.90	Front	0	0.157	1.148	1.007	0.181	0.181	0.045		22.8			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.14	6305.00	71	34	11.5	10.90	Top	0	0.051	1.148	1.007	0.059	0.059	0.015		27.7			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	-0.03	5985.00	7	34	11.5	10.53	Left	0	0.408	1.250	1.007	0.514	0.514	0.129	A86	18.3	18.3	10.5	19.0
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	0.02	6305.00	71	34	11.5	10.90	Left	0	0.334	1.148	1.007	0.386	0.386	0.097		19.6	10.5	10.5	13.0
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	-0.06	6465.00	103	34	11.0	10.58	Left	0	0.353	1.102	1.007	0.392	2.103	0.526		19.0			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M	99.27	-0.03	6705.00	151	34	11.5	10.80	Left	0	0.295	1.175	1.007	0.349	0.349	0.087		20.0			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	Н	1295M C95.1 1992 - SA	99.27	-0.03	7025.00	215	34	11.0	10.74	Left	0	0.293	1.062	1.007 Phablet	0.313	1.682	0.421		20.0			
					Spatial Peak Exposure/Gen		on						<u></u>			4.01	W/kg (mW/g) ed over 10 gram	5							
Exposure	Band/ Mode	Bands [M		ervice/ odulation	Ant. Se	rial Numbe	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Chann	Data i	tate Max A	llowed Cor [dBm] Pow	nducted er [dBm]	est Position S _l		Measured APD [W/m² (4cm²)]	Power Scaling Factor	Duty Cycle Scaling Facto	Reported / r [W/m² (4cr					Plot#
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	-0.09	6305.00	71	. 34	1:	1.5	10.90	Back	0	4.840	1.148	1.007	5.595		5.595	0.3	280	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	0.01	6305.00	71	. 34	1	1.5	10.90	Front	0	3.670	1.148	1.007	4.243		4.243	0.3	212	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	0.14	6305.00	71	. 34	1:	1.5	10.90	Top	0	1.200	1.148	1.007	1.387		1.387	0.0	069	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	-0.03	5985.00	7	34	1:	1.5	10.53	Left	0	9.760	1.250	1.007	12.285		12.285	0.0	514	A86
Phablet	6 GHz WIFI/ IEEE 802.11		10	OFDM	Н	1295M	99.27	0.02	6305.00	71	. 34	1	1.5	10.90	Left	0	8.000	1.148	1.007	9.248		9.248	0.4	162	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	-0.06	6465.00	10	3 34	- 1:	LO	10.58	Left	0	8.440	1.102	1.007	9.366		10.751	0.5	538	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	-0.03	6705.00	15:	1 34	1	L5	10.80	Left	0	7.080	1.175	1.007	8.377		8.377	0.4	119	
Phablet	6 GHz WIFI/ IEEE 802.11	ax 8	10	OFDM	н	1295M	99.27	-0.03	7025.00	21	5 34	- 1:	LO	10.74	Left	0	7.020	1.062	1.007	7.507		8.617	0.4	131	
							,											,,,,						- "	

Table 12-139

Exposure Sealed Model Decig Modelation Art Serial Member pig [dil] Decig Channel Decig Power [dams] Power [dams] Test Position Spacing [mm] San [W/Ag] Sactor Saling Factor Saling Facto																									
Phablet 6-00 WMP/IEE R02.11ax 80 OFFOM E 1295M 99.27 -0.01 6-905.00 71 34 11.5 11.10 Back 0 0.25 1.096 1.007 0.227 0.227 0.059	xposure				Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]		Channel #				Test Position	Spacing (mm				Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot #	Plimit (dRm)	verall EFS PI Plimit DSI dBm) (dBr	0 Pmax
Phobbet	Phablet 6 GHz 1	GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.01	5985.00	7	34	11.5	10.78	Back	0	0.171	1.180	1.007	0.203	0.203	0.051		22.3		
Phablet GOD WMF/IEE 802.11ax 80 OFFM E 125544 99.27 0.03 6705.00 151 34 11.5 10.68 Back 0 0.172 1.268 1.007 0.209 0	Phablet 6 GHz	GHz WIFI/ IEEE 802.11ax	80	OFDM	E	1295M	99.27	-0.13	6305.00	71	34	11.5	11.10	Back	0	0.215	1.096	1.007	0.237	0.237	0.059		21.7		
Problet			80		E			-0.05		103	34			Back	0	0.184							22.2		
Phablet					E																		22.2	21.7 10.	5 22.2
Phablet					E																		23.5	22.7	,
Phablet 6 G0 WWF/EEE RD211ax 80 OFGM E 1275564 99.27 0.06 6305.00 71 34 11.5 11.10 Rg/et 0 0.009 1.096 1.007 0.010 0.010 0.003					E																		28.4		
ANSI/IEE C95.1 1992 - SAFETY LIMIT Phablet					E										0								25.0		
	Phablet 6 GHz	GHz WIFI/ IEEE 802.11ax	80	OFDM	E			0.06	6305.00	71	34	11.5	11.10	Right	0	0.009			0.010	0.010	0.003		35.5		
					ANSI/IEEI		FEIYLIMII																		
Uncontrolled Exposure/General Population averaged over 10 grams																									
Exposure Band/ Mode Bandwidth Service/ [MHz] Service/ Ant. Serial Number Duty Cycle Power Drift Frequency [MHz] Channel # [Mbp4] Power [dbn] Power [dbn] Power [dbn] Power [dbn] Power [dbn] Factor Scaling Factor [W/m* (4cm*)] [Exposure	Band/ Mode		vidth Se	rvice/			Duty Cycle			Chann					est Position Sp	naina (mm)	leasured APD	Power Scaling						ure Plot#
Phablet 6 GHz WIFI/IEEE 802.11ax 80 OFDM E 1295M 99.27 -0.01 5985.00 7 34 11.5 10.78 Back 0 3.980 1.180 1.007 4.729	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.01	5985.00	7	34	11	5	10.78	Back	0	3.980	1.180	1.007	4.729		4.729	0.236	
Phablet 6 GHz WIFI/IEEE 802.11ax 80 OFDM E 1295M 99.27 -0.13 6305.00 71 34 11.5 11.10 Back 0 4.970 1.096 1.007 5.485	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.13	6305.00	71	34	11	5	1.10	Back	0	4.970	1.096	1.007	5.485		5.485	0.274	
Phablet 6 GHz WIFI/IEEE 802.11ax 80 OFDM E 1295M 99.27 -0.05 6465.00 103 34 11.0 10.92 Back 0 4.280 1.019 1.007 4.392 :	Phablet 6.6	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.05	6465.00	103	34	11	0 1	10.92	Back	0	4.280	1.019	1.007	4.392		11.283	0.564	
Phablet 6 GHz WiF/ IEEE 802.11ax 80 OFDM E 1295M 99.27 -0.03 6705.00 151 34 11.5 10.68 Back 0 4.050 1.208 1.007 4.927	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.03	6705.00	151	1 34	11	5	10.68	Back	0	4.050	1.208	1.007	4.927		4.927	0.246	
		6 GHz WIFI/ IEEE 802.11ax				E	1285M	99.27	-0.01	7025.00	215	34	11			Back	0	3.290	1.002	1.007	3.320		8.534	0.427	
Phablet 6 GHz WIFI/IEEE 802.11ax 80 OFDM E 1285M 99.27 -0.01 7025.00 215 34 11.0 10.99 Back 0 3.290 1.002 1.007 3.320	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.21	6305.00	71	34	11	5	1.10	Front	0	1.030	1.096	1.007	1.137		1.137	0.057	
	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	-0.04	6305.00	71	34	11	5	1.10	Тор	0	2.340	1.096	1.007	2.583		2.583	0.129	
Phablet 6 GHz WIF/ IEEE 802.11xx 80 OFDM E 1285M 99.27 -0.21 6305.00 71 34 11.5 11.10 Front 0 1.030 1.096 1.007 1.137	Phablet 6 G	6 GHz WIFI/ IEEE 802.11ax	80) (DFDM	E	1295M	99.27	0.06	6305.00	71	34	11	5	1.10	Right	0	0.201	1.096	1.007	0.222		0.222	0.011	

12.32 6 GHz WIFI MIMO Standalone SAR and APD

Head 6 GH:	GHz WIFI/ IEEE 802.11ax	80 0	DEDM MII	AO 115	OM 99.27	0.01	7025.00																
								215	68.1	10.0	9.52	10.0	9.32	Right Cheek	0	0.061		1.007 0.0				17.9	9.0
	GHz WIFI/ IEEE 802.11ax	80 0	DFDM MII	AO 115	OM 99.27	0.06	5985.00	7	68.1	10.0	9.39	10.0	9.73	Right Tilt	0	0.100	1.151 1	1.007 0.1	16 0.11	6 0.073		19.3	
Head 6 GH:	SHz WIFI/ IEEE 802.11ax	80 (DFDM MII	AO 115	OM 99.27	0.03	5985.00	7	68.1	10.0	9.39	10.0	9.73	Left Cheek	0	0.058	1.151 1	.007 0.0	67 0.06	7 0.042		21.7	
Head 6 GH:	GHz WIFI/ IEEE 802.11ax	80 (OFDM MII		OM 99.27	0.06	5985.00	7	68.1	10.0	9.39	10.0	9.73	Left Tilt	0	0.035	1.151 1	.007 0.0	41 0.04	1 0.026		23.9	
				Uncor	NSI/IEEE C95.1 199 Spatial ntrolled Exposure	Peak /General Pop	ulation									·	Head 1.6 W/kg (averaged ov	mW/g)				·	
ote: To achieve the 13 dBm ma	maximum allowed MIMO power	er shown in the	documentation,	each antenna	transmits at a ma	ximum allow	ed power of 10	dBm.															
Exposure	Band/ Mode	Bandwidth [MHz]	Service/ Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel#		Max Allowed Power (dBm)		Max Allowed Power (2nd ant) [dBm]	Conducted Power (2nd ant) (dBm)	Test Position	Spacing (mm	Measured API [W/m² (4cm²)	D Power Scaling Factor	Duty Cycle Scaling Factor	Reported APD [W/m² (4cm²)]	Adjusted APD [W/m² (4cm²)]	APD Exposure Ratio	Plot #
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.04	5985.00	7	68.1	10.0	9.39	10.0	9.73	Right Cheek	0	0.646	1.151	1.007	0.749	0.749	0.037	A87
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.02	6305.00	71	68.1	10.0	8.11	10.0	9.58	Right Cheek	0	0.562	1.545	1.007	0.874	0.874	0.044	
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.04	6465.00	103	68.1	10.0	8.87	10.0	9.64	Right Cheek	0	0.627	1.297	1.007	0.819	0.819	0.041	
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.03	6705.00	151	68.1	10.0	9.37	10.0	9.61	Right Cheek	0	0.413	1.156	1.007	0.481	0.481	0.024	
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.01	7025.00	215	68.1	10.0	9.52	10.0	9.32	Right Cheek	0	0.356	1.169	1.007	0.419	0.419	0.021	
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.06	5985.00	7	68.1	10.0	9.39	10.0	9.73	Right Tilt	0	0.455	1.151	1.007	0.527	0.527	0.026	
	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.03	5985.00	7	68.1	10.0	9.39	10.0	9.73	Left Cheek	0	0.275	1.151	1.007	0.319	0.319	0.016	
Head 60	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.06	5985.00	7	68.1	10.0	9.39	10.0	9.73	Left Tilt	0	0.098	1.151	1.007	0.114	0.114	0.006	

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Exposure	Band / Mode	Bandwidth [MH2]	Service / Modulation	Ant.	Serial Numbe	Duty Cycl	e Power Drift [dB]	Frequency [MHz]	Channel #	[Mbps]		Conducted Power [dBm]	Max Allowed Power (2nd ant) [dBm]		Test Position		Measured 1g SAR [W/kg]				tg Adjusted g] SAR [W/I	1g Exposure R		Plimit [d8m]	Overall Plimit [dBm]	EFS Plimit [dBm]
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.09	6705.00	151	68.1	11.5	11.28	11.5	10.23	Back	10	0.086	1.340	1.007	0.116	0.116	0.073		20.8	20.8	10.5
					Uncontrolle	Spatial I d Exposure/	General Popu	lation											Body W/kg (mW/g) ged over 1 grad							
Note: To achieve the 14.5	5 dBm maximum allowed MIMO po	ower shown in the	documentation,	each antenn	a transmits at	a maximum a	flowed power	of 11.5 dBm.																		
Exposure	Band/ Mode	Bandwidt (MHz)	Modular	tion			[%]	[dB]	Frequency [MHz]		[Mbps]	Max Allowed Power [dBm]	Power (dBm)	Power (2nd ant) [dBm]	ant) [dBm]	Test Posit	don Spacing	[W/m²		Factor S	caling Factor	Reported APD [W/m² (4cm²)]	[W/m² (4cm	2)]	Ratio	Plot #
Body-worn	6 GHz WIFI/ IEEE 802.11ax	80	OFDN	A M	IIMO 1	182M	99.27	0.09	6705.00	151	68.1	11.5	11.28	11.5	10.23	Back	10	0.6	61	1.340	1.007	0.892	0.892		0.045	

Table 12-142

Exposure	Band / Mode	Bandwidth [MHz]	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]		Max Allowed Power (2nd ant) [d8m]		Test Position	Spacing [mm	Measured 10 ₁ SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Adjusted 10g SAR [W/kg]	Exposure Ratio (10g SAR)		Plimit		DSI 0	FS Plimit Pmax [dBm]
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.04	6705.00	151	68.1	11.5	11.28	11.5	10.20	Back	0	0.142	1.349	1.007	0.193	0.193	0.048		22.6			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	-0.16	6705.00	151	68.1	11.5	11.28	11.5	10.20	Front	0	0.220	1.349	1.007	0.299	0.299	0.075		20.7			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Тор	0	0.092	1.349	1.007	0.125	0.125	0.031		24.5			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.03	6705.00	151	68.1	11.5	11.28	11.5	10.20	Right	0	0.041	1.349	1.007	0.056	0.056	0.014		28.0			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	-0.02	5985.00	7	68.1	11.5	10.85	11.5	9.85	Left	0	0.363	1.462	1.007	0.534	0.534	0.134		18.1	17.9	10.5	17.9
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.09	6305.00	71	68.1	11.5	9.52	11.5	11.20	Left	0	0.326	1.578	1.007	0.518	0.518	0.130		18.3			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1150M	99.27	0.01	6465.00	103	68.1	11.0	9.04	11.0	10.88	Left	0	0.322	1.570	1.007	0.509	0.509	0.127		17.9			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1182M	99.27	0.01	6705.00	151	68.1	11.5	11.28	11.5	10.20	Left	0	0.346	1.349	1.007	0.470	0.470	0.118		18.7			
Phablet	6 GHz WIFI/ IEEE 802.11ax	80	OFDM	MIMO	1105M	99.27 E C95.1 1992 -	0.05	7025.00	215	68.1	11.0	9.49	11.0	10.99	Left	0	0.245	1.416	1.007 Phablet	0.349	0.349	0.087		19.5		_	_
	dBm maximum allowed MIMO po					Spatial Pe d Exposure/G	eneral Popula												W/kg (mW/g) ped over 10 gram:								
Exposure	Band/ Mode	Bandy (Mi	vidth Ser	vice/ ulation		rial Number		Power Drift (dB)	Frequency [MHz]	Channo	Data Ra (Mbps		wed Condu Bm] Power	cted Pow	er (2nd Po	onducted ower (2nd T nt) [dBm]	est Position	Spacing [mm]	Measured APD (W/m² (4cm²))	Power Scaling Factor		Reported or [W/m² (4c			APD Ex		Plot #
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80	0	FDM	MIMO	1182M	99.27	0.04	6705.00	151	68.1	11.5	11.	28	11.5	10.20	Back	0	3.230	1.349	1.007	4.388		4.388	0.2	19	
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80	0	FDM	MIMO	1150M	99.27	-0.16	6705.00	151	68.1	11.5	11.	28	11.5	10.20	Front	0	5.070	1.349	1.007	6.887		6.887	0.3	144	
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80) 0	DM	MIMO	1182M	99.27	0.03	6705.00	151	68.1	11.5	11.7	28	11.5	10.20	Top	0	2.100	1.349	1.007	2.853		2.853	0.1	.43	
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80) 0	DM	MIMO	1150M	99.27	0.03	6705.00	151	68.1	11.5	11.	28	11.5	10.20	Right	0	0.912	1.349	1.007	1.239		1.239	0.0	162	
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80	0	DM	MIMO	1150M	99.27	-0.02	5985.00	7	68.1	11.5	10.	85	11.5	9.85	Left	0	8,600	1.462	1.007	12.661		12.661	0.6	33	
Phablet	6 GHz WIFI/ IEEE 802.11a			-DM	MIMO	1150M	99.27	0.09	6305.00	71	68.1					11.20	Left	0	7.640	1.578	1.007	12.140		12.140	0.6		
Phablet	6 GHz WIFI/ IEEE 802.11a	x 80) 0	DM	MIMO	1150M	99.27	0.01	6465.00	103	68.1	11.0	9.0	4	11.0	10.88	Left	0	7.590	1.570	1.007	12.000	,	12.000	0.6	00	
Phablet	6 GHz WIFI/ IEEE 802.11a) 0	DM	MIMO	1182M	99.27	0.01	6705.00	151		11.5			11.5	10.20	Left	0	8.220	1.349	1.007	11.166		11.166	0.5	58	
Phablet	6 GHz WIFI/ IEEE 802.11a			FDM	MIMO	1105M	99.27	0.05	7025.00	215		11.0			11.0	10.99	Left	0	5.800	1.416	1.007	8.270		8.270	0.4		

12.33 2.4 GHz Bluetooth Standalone SAR

Table 12-143

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)	Overall Plimit [dBm]	EFS Plimit (dBm)
Head	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.03	2402.00	0	1	12.5	12.45	Right Cheek	0	0.218	1.012	1.020	0.225	0.225	0.141		18.3		
Head	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.06	2402.00	0	1	12.5	12.45	Right Tilt	0	0.096	1.012	1.020	0.099	0.099	0.062		21.9	18.3	10.9
Head	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.18	2402.00	0	1	12.5	12.45	Left Cheek	0	0.057	1.012	1.020	0.059	0.059	0.037		24.1	10.3	10.5
Head	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.06	2402.00	0	1	12.5	12.45	Left Tilt	0	0.034	1.012	1.020	0.035	0.035	0.022		26.4		
			A	NSI/IEEE C95.1 1	992 - SAFETY	LIMIT										Head							
			Unco	Spationtrolled Exposu	al Peak re/General Pe	opulation										N/kg (mW/g) ged over 1 gram							

Table 12-144

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.06	2402.00	0	1	12.5	11.57	Right Cheek	0	0.129	1.239	1.020	0.163	0.163	0.102		19.7		
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.05	2402.00	0	1	12.5	11.57	Right Tilt	0	0.018	1.239	1.020	0.023	0.023	0.014		28.3	17.1	10.9
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	-0.05	2402.00	0	1	12.5	11.57	Left Cheek	0	0.238	1.239	1.020	0.301	0.301	0.188	A88	17.1	17.1	10.5
Head	2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.02	2402.00	0	1	12.5	11.57	Left Tilt	0	0.028	1.239	1.020	0.035	0.035	0.022		26.4		
			A	NSI/IEEE C95.1 1		LIMIT										Head							
					al Peak											N/kg (mW/g)							
			Uno	ontrolled Exposu	re/General Pr	opulation									averag	ed over 1 gram							

Table 12-145

Field 2.4 Get Blandon 1.6 OSS MIMO 2262M 8.5.3 O.02 2402.00 0 1 21.5 12.5 12.5 12.5 12.5 11.52 Right Tile 0 0.100 1.48 1.000 0.279 0.984 0.615 17.7 17.7 17.7 18.0 1	Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power (dBm)	Max Allowed Power (2nd ant) [dBm]		Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit [dBm]
Nead 2.4 Gir Blustooth E	Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.02	2402.00	0	1	12.5	12.35	12.5	11.92	Right Cheek	0	0.222	1.143	1.020	0.259	0.984	0.615		17.7	-	-
Read 2.4 GHz Blustooth LE DSSS MIMO 1262M 85.33 0.05 2402.00 0 1 12.5 12.35 12.5 11.92 Left Cheek 0 0.216 11.43 1.000 0.252 0.557 0.598 17.8	Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.03	2402.00	0	1	12.5	12.35	12.5	11.92	Right Tilt	0	0.100	1.143	1.020	0.117	0.443	0.277		21.2	17.7	17.7
ANS/JEEE CSS.1992 - SAFETY LIMIT Head	Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.05	2402.00	0	1	12.5	12.35	12.5	11.92	Left Cheek	0	0.216	1.143	1.020	0.252	0.957	0.598		17.8	****	
	Head	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.07	2402.00	0	1	12.5	12.35	12.5	11.92	Left Tilt	0	0.035	1.143	1.020	0.041	0.155	0.097		25.7		
Spatial Peak 1.6 W/kg (mW/g)					Α			ETY LIMIT																		
						S	patial Peak											1.6	W/kg (mW/g)					l		
Uncontrolled Exposure/General Population averaged over 1 gram					Unc	ontrolled Exp	osure/Genera	al Population										avera	ged over 1 gram							

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #		Max Allowed Power [dBm]	Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor		Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#	Plimit	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.20	2402.00	0	1	19.0	18.39	Back	10	0.210	1.151	1.020	0.247	0.373	0.233	A89	24.4		
Hotspot	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.01	2402.00	0	1	19.0	18.39	Front	10	0.169	1.151	1.020	0.198	0.300	0.188		25.4	23.2	20.2
Hotspot	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.17	2402.00	0	1	19.0	18.39	Top	10	0.117	1.151	1.020	0.137	0.208	0.130		27.0	25.2	20.2
Hotspot	2.4 GHz Bluetooth LE	DSSS	Н	1262M	85.28	0.02	2402.00	0	1	19.0	18.39	Left	10	0.278	1.151	1.020	0.326	0.494	0.309	A90	23.2		
				NSI/IEEE C95.1 1 Spati ontrolled Exposu	al Peak											Body N/kg (mW/g) ged over 1 gram							

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Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle [%]	Power Drift [dB]	Frequency [MHz]	Channel #			Conducted Power [dBm]	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Adjusted 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot #	Plimit (dBm)		EFS Plimit [dBm]
2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.13	2440.00	19	1	19.0	18.02	Back	10	0.034	1.253	1.020	0.043	0.308	0.193		32.0		-
2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.04	2440.00	19	1	19.0	18.02	Front	10	0.079	1.253	1.020	0.101	0.715	0.447		28.3	20.2	26.0
2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.01	2440.00	19	1	19.0	18.02	Top	10	0.003	1.253	1.020	0.004	0.027	0.017		42.5	20.3	20.5
2.4 GHz Bluetooth LE	DSSS	J	1262M	85.33	0.02	2440.00	19	1	19.0	18.02	Right	10	0.018	1.253	1.020	0.023	0.163	0.102		34.7		1
	2.4 GHz Bluetooth LE 2.4 GHz Bluetooth LE 2.4 GHz Bluetooth LE	### Bluetooth LE DSSS 2.4 GHz Bluetooth LE DSSS 2.4 GHz Bluetooth LE DSSS 2.4 GHz Bluetooth LE DSSS	Band Mode	Band / Mode Modulation Ant. Sensi Number	Band / Mode	Band / Mode		Band / Mode Modulation Ant. Senial Number [3] [68] [MHz] Channel 8	Band / Mode Modulation Ant. Serial Number [14] [68] [MAH2] Channel # [Mape]	Band / Mode Modulation Ant. Serial Number [N] [dill] [DM+2] Channel 8 [Mgpu] Power [dilm]	2.4 Gir Blastocht E 0555 J 1250M 65.33 0.13 2440.00 19 1 190 14.02 2.4 Gir Blastocht E 0555 J 1250M 65.33 0.03 2440.00 19 1 190 14.02 2.4 Gir Blastocht E 0555 J 1250M 65.33 0.05 2440.00 19 1 190 18.02 2.4 Gir Blastocht E 0555 J 1250M 65.33 0.02 2440.00 19 1 190 18.02 AND/LEE CR. 1 1902 - 2.4 FULL MIT 5.00 1.00 1.00 18.02	2.4 Gir Blastocht E D555 / 13/50M 65.33 0.13 3440.00 19 1 19.0 18.03 Back 2.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 3440.00 19 1 19.0 18.03 Back 2.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 3440.00 19 1 19.0 18.02 Foot 2.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 2440.00 19 1 19.0 18.02 Foot 3.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 2440.00 19 1 19.0 18.02 Foot 3.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 2440.00 19 1 19.0 18.02 Foot 3.4 Gir Blastocht E D555 / 13/50M 65.33 0.01 2440.00 19 1 19.0 18.02 Right	2.4 GP: Blumboth LE 0565 J 1253M 65.33 0.13 2440.00 19 1 10.0 18.00 Beck 10 2.4 GP: Blumboth LE 0565 J 1253M 65.33 0.04 3400.00 19 1 10.0 18.00 Fept 10 2.4 GP: Blumboth LE 0565 J 1253M 65.33 0.04 3400.00 19 1 10.0 18.02 Fept 10 2.4 GP: Blumboth LE 0565 J 1253M 65.33 0.01 2440.00 19 1 10.0 18.02 Fep 10 2.4 GP: Blumboth LE 0565 J 1253M 65.33 0.02 2440.00 19 1 10.0 18.02 Fep 10 AKS/REC CS.1 1992-SARFY LIMIT	2.4 Gir Blumochild DSGS J 1353M 85.33 0.11 3440.00 19 1 190 180.0 Beck 10 0.034 2.4 Gir Blumochild DSGS J 1353M 85.33 0.04 3440.00 19 1 190 16.01 Front 0 0.079 2.4 Gir Blumochild DSGS J 1353M 85.33 0.04 3440.00 19 1 190 16.01 Front 0 0.079 2.4 Gir Blumochild DSGS J 1353M 85.33 0.01 3240.00 19 1 190 16.02 Frog 10 0.093 2.4 Gir Blumochild DSGS J 1353M 85.33 0.02 3440.00 19 1 190 18.02 Front 0 0.018 AKS/REC CSG. 1992-5ARCTY UMIT	2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.13 2440.00 19 1 190 18.02 Back 10 0.094 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.01 2440.00 19 1 190 18.00 feet 10 0.094 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.01 2440.00 19 1 190 18.02 feet 10 0.093 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.01 2440.00 19 1 19.0 18.02 feet 10 0.093 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.02 2440.00 19 1 19.0 18.02 Right 10 0.018 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.02 2440.00 19 1 19.0 18.02 Right 10 0.018 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.33 0.02 2440.00 19 1 19.0 18.02 Right 10 0.018 1.25 2.4 GHz Blueteoth LE 0555 J 1262M 55.34 CHZ Blueteoth LE 0555	Mojes Power (ellina) Power (ellina	No.	Company Comp	Control Cont	Modulation Policy College Power (dbm) Power (dbm	Band Mode Service Ant. Service Montanelle Policy Cycle Power Dorft Power Dor	Column C

Table 12-148

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle (%)	Power Drift [dB]	Frequency [MHz]	Channel #	Data Rate (Mbps)	Max Allowed Power (dBm)		Max Allowed Power (2nd ant) [dBm]		Test Position		Measured 1g SAR [W/kg]			Reported 1g SAR [W/kg]		Exposure Ratio (1g SAR)	Plot #	Plimit [dBm]	Overall Plimit [dBm]	EFS Plimit (dBm)
Body-worn/Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	+0.06	2402.00	0	1	12.5	12.35	12.5	11.92	Back	10	0.045	1.143	1.020	0.052	0.288	0.180		24.6		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.04	2402.00	0	1	12.5	12.35	12.5	11.92	Front	10	0.041	1.143	1.020	0.048	0.263	0.164		25.1		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.16	2402.00	0	1	12.5	12.35	12.5	11.92	Top	10	0.028	1.143	1.020	0.033	0.179	0.112		26.7	23.2	19.3
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.03	2402.00	0	1	12.5	12.35	12.5	11.92	Right	10	0.014	1.143	1.020	0.016	0.090	0.056		29.7		
Hotspot	2.4 GHz Bluetooth LE	DSSS	MIMO	1262M	85.33	0.06	2402.00	0	1	12.5	12.35	12.5	11.92	Left	10	0.063	1.143	1.020	0.073	0.404	0.253		23.2		1
				Α		5.1 1992 - SAFI patial Peak	ETYLIMIT										1.6	Body N/kg (mW/g)							
	Uncontrolled Exposure/ General Population																avera	ed over 1 gram							
into: To achieve the 15 5	dPm maximum allowed MIMO o	ower chown in th	o documents	tion each anten	na transmits	at a maximum	allowed nower	of 12 E dBm																	

12.34 UWB Standalone SAR

Table 12-149

						14-17	•						
Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#
Phablet	UWB	CW	1	1322M	1:1	0.05	6489.60	5	Back	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.02	7987.20	9	Back	0	0.000	0.000	A91
Phablet	UWB	CW	1	1322M	1:1	0.09	6489.60	5	Front	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Front	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.02	6489.60	5	Тор	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.04	7987.20	9	Тор	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.06	6489.60	5	Left	0	0.000	0.000	
Phablet	UWB	CW	1	1322M	1:1	0.05	7987.20	9	Left	0	0.001	0.000	
				4.0 \	Phablet V/kg (mW/g) ed over 10 grams								
Exposure	Band/ Mode	Service/ Modulation	Ant.	Serial Number	Duty Cycle	Power Drift [dB]	Frequency [MHz]	Channel #	Test Position	Spacing [mm]	Measured APD [W/m² (4cm²)]	APD Exposure Ratio	Plot#
-1 11 .													
Phablet	UWB	CW	1	1322M	1:1	0.05	6489.60	5	Back	0	0.013	0.001	
Phablet Phablet	UWB	CW CW	1	1322M 1322M	1:1 1:1	0.05 0.02	6489.60 7987.20	5 9	Back Back	0	0.013 0.016	0.001 0.001	A91
	-			-				-		-			A91
Phablet	UWB	CW	1	1322M	1:1	0.02	7987.20	9	Back	0	0.016	0.001	A91
Phablet Phablet	UWB UWB	CW	1	1322M 1322M	1:1 1:1	0.02 0.09	7987.20 6489.60	9	Back Front	0	0.016 0.014	0.001 0.001	A91
Phablet Phablet Phablet	UWB UWB UWB	CW CW	1 1 1	1322M 1322M 1322M	1:1 1:1 1:1	0.02 0.09 0.04	7987.20 6489.60 7987.20	9 5 9	Back Front Front	0 0	0.016 0.014 0.014	0.001 0.001 0.001	A91
Phablet Phablet Phablet Phablet	UWB UWB UWB	CW CW CW	1 1 1 1	1322M 1322M 1322M 1322M	1:1 1:1 1:1 1:1	0.02 0.09 0.04 0.02	7987.20 6489.60 7987.20 6489.60	9 5 9	Back Front Front Top	0 0 0 0	0.016 0.014 0.014 0.011	0.001 0.001 0.001 0.001	A91

12.35 NFC Standalone SAR

				i abie	12-150						
Exposure	Band / Mode	Signal Type	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#
Phablet	NFC	В	NFC	1285M	-0.09	13.60	Back	0	0.017	0.004	A92
Phablet	NFC	В	NFC	1285M	0.01	13.60	Front	0	0.000	0.000	
Phablet	NFC	В	NFC	1285M	0.04	13.60	Тор	0	0.000	0.000	
Phablet	NFC	В	NFC	1285M	0.09	13.60	Left	0	0.000	0.000	
	ANSI/IEEE	C95.1 1992 - SA			•	Phablet					
		Spatial Peak			4.0 \	N/kg (mW/g)					
	Uncontrolled	Exposure/Gene	ral Populati	on				average	ed over 10 grams	;	

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12.36 NTN Standalone SAR

Table 12-151

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel#	Max Allowed Power [dBm]	Conducted Power [dBm]	# Tone	Tone Start	Test Position	Spacing [mm]	Measured 1g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 1g SAR [W/kg]	Exposure Ratio (1g SAR)	Plot#
Body-worn	NTN Band 255	CW	F	1307M	0.06	1643.50	261674	23.0	22.90	1	5	Back	10	0.699	1.023	0.710	0.508	0.318	A93
	8069-WOFR NINSBIRG 255 CW F 322 30 20 1043-50 2616-74 23.0 27.90														Body 6 W/kg (mW/g) raged over 1 gra				

Table 12-152

Exposure	Band / Mode	Service / Modulation	Ant.	Serial Number	Power Drift [dB]	Frequency [MHz]	Channel #	Max Allowed Power [dBm]		# Tone	Tone Start	Test Position	Spacing [mm]	Measured 10g SAR [W/kg]	Power Scaling Factor	Duty Cycle Scaling Factor	Reported 10g SAR [W/kg]	Exposure Ratio (10g SAR)	Plot#
Phablet	NTN Band 255	CW	F	1307M	0.01	1643.50	261674	23.0	22.90	1	5	Back	0	1.760	1.023	0.710	1.278	0.320	
Phablet	NTN Band 255	CW	F	1307M	0.02	1643.50	261674	23.0	22.90	1	5	Front	0	2.360	1.023	0.710	1.714	0.429	
Phablet	NTN Band 255	CW	F	1307M	-0.01	1626.60	261505	23.0	22.73	1	5	Тор	0	3.990	1.064	0.710	3.014	0.754	A94
Phablet	NTN Band 255	CW	F	1307M	-0.03	1626.60	261505	23.0	22.73	1	5	Тор	0	3.940	1.064	0.710	2.976	0.744	
Phablet	NTN Band 255	CW	F	1307M	0.00	1643.50	261674	23.0	22.90	1	5	Тор	0	3.630	1.023	0.710	2.637	0.659	
Phablet	NTN Band 255	CW	F	1307M	0.03	1660.40	261843	23.0	22.74	1	5	Тор	0	3.620	1.062	0.710	2.730	0.683	
Phablet	NTN Band 255	CW	F	1307M	-0.11	1643.50	261674	23.0	22.90	1	5	Left	0	0.777	1.023	0.710	0.564	0.141	
	Phablet														Phablet 0 W/kg (mW/g) ged over 10 gran	ns			
Note: Blue entry represer	nts variability measurement																		

SAR Test Notes

General Notes:

- 1. The test data reported are the worst-case SAR values according to test procedures specified in IEEE 1528-2013, and FCC KDB Publication 447498 D01v06.
- 2. Batteries are fully charged at the beginning of the SAR measurements.
- 3. Liquid tissue depth was at least 15.0 cm for all frequencies.
- 4. The manufacturer has confirmed that the device(s) tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 5. SAR results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D01v06.
- 6. Device was tested using a fixed spacing for body-worn accessory testing. A separation distance of 10 mm was considered because the manufacturer has determined that there will be body-worn accessories available in the marketplace for users to support this separation distance.
- 7. Per FCC KDB Publication 648474 D01v06r03, body-worn SAR was evaluated without a headset connected to the device. Since the standalone reported body-worn SAR was ≤ 1.2 W/kg, no additional body-worn SAR evaluations using a headset cable were required.
- 8. Per FCC KDB 865664 D01v01r04, variability SAR tests were performed when the measured SAR results for a frequency band were greater than or equal to 0.8 W/kg. Repeated SAR measurements are highlighted in the tables above for clarity. Please see Section 14 for variability analysis.
- 9. During SAR Testing for the Wireless Router conditions per FCC KDB Publication 941225 D06v02r01, the actual Portable Hotspot operation (with actual simultaneous transmission of a transmitter with WIFI) was not activated (See Section 7.7 for more details).
- 10. Per FCC KDB Publication 648474 D01v06r03, this device is considered a "phablet" since the display diagonal dimension is > 150 mm and < 200 mm. Therefore, phablet SAR tests are required when wireless router mode does not apply or if wireless router 1g SAR > 1.2 W/kg.
- 11. This device supports dynamic antenna tuning for some bands. Per FCC Guidance, SAR was measured according to the normally required SAR measurement configurations with tuner active. The auto-tune state determined by the device was verified before and after each SAR measurement and is listed in tables above. Please see Section 15 for supplemental data.
- 12. Unless otherwise noted, when 10g SAR measurement is considered, a factor of 2.5 is applied to the 1g thresholds for the equivalent test cases.
- 13. This device uses Qualcomm Smart Transmit for WWAN/WLAN/BT operations to control and manage transmitting power in real time to ensure RF Exposure compliance. Per FCC Guidance, compliance for

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- was assessed at the minimum of the time averaged power and the maximum output power for each band/mode/exposure condition (DSI).
- 14. Per October 2020 TCB Workshop notes, absorbed power density (APD) using a 4cm2 averaging area is reported based on SAR measurements.

GSM Test Notes:

- 1. Body-Worn accessory testing is typically associated with voice operations. Therefore, GSM voice was evaluated for body-worn SAR.
- 2. Justification for reduced test configurations per KDB Publication 941225 D01v03r01 and October 2013 TCB Workshop Notes: The source-based frame-averaged output power was evaluated for all GPRS/EDGE slot configurations. The configuration with the highest target frame averaged output power was evaluated for hotspot SAR. When the maximum frame-averaged powers are equivalent across two or more slots (within 0.25 dB), the configuration with the most number of time slots was tested.
- 3. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

UMTS Notes:

- 1. UMTS mode was tested under RMC 12.2 kbps with HSPA Inactive per KDB Publication 941225 D01v03r01. AMR and HSPA SAR was not required per the 3G Test Reduction Procedure in KDB Publication 941225 D01v03r01.
- 2. Per FCC KDB Publication 447498 D01v06, if the reported (scaled) SAR measured at the highest output power channel for each test configuration is ≤ 0.8 W/kg for 1g evaluations then testing at the other channels is not required for such test configuration(s).

LTE Notes:

- 1. LTE test configurations are determined according to SAR Evaluation Considerations for LTE Devices in FCC KDB Publication 941225 D05v02r04. The general test procedures used for testing can be found in Section 9.5.4.
- 2. MPR is permanently implemented for this device by the manufacturer. The specific manufacturer target MPR is indicated alongside the SAR results. MPR is enabled for this device, according to 3GPP TS36.101 Section 6.2.3 – 6.2.5 under Table 6.2.3-1.
- 3. A-MPR was disabled for all SAR tests by setting NS=01 and MCC=001 on the base station simulator. SAR tests were performed with the same number of RB and RB offsets transmitting on all TTI frames (maximum TTI).
- 4. Per FCC KDB Publication 447498 D01v06, when the reported 1g SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for LTE B41/48, testing at the other channels was required for such test configurations.
- 5. TDD LTE was tested per the guidance provided in FCC KDB Publication 941225 D05y02r04. Testing was performed using UL-DL configuration 0 with 6 UL subframes and 2 S subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4, the duty factor for special subframe configuration 6 using extended cyclic prefix is 0.633.
- 6. Per KDB Publication 941225 D05Av01r02, SAR for downlink only LTE CA operations was not needed since the maximum average output power in LTE CA mode was not >0.25 dB higher than the maximum output power when downlink carrier aggregation was inactive.
- 7. For LTE Band 48 per FCC guidance, SAR was first measured with only a single carrier active in the uplink (carrier aggregation not active). For each exposure condition, the uplink CA scenario with two component carriers was additionally tested for the configuration with the highest SAR when carrier aggregation was not active. The SCC was configured with the closest available contiguous channel. The two component carriers were configured so the resource blocks are physically allocated side by side to achieve the maximum output power.

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NR Notes:

- 1. NR implementation supports SA and NSA mode. In EN-DC mode, NR operates with the LTE Bands shown in the NR FR1 checklist acting as anchor bands. Per FCC guidance, SAR tests for NR Bands and LTE Anchors Bands were performed separately due to limitations in SAR probe calibration factors.
- 2. Due to test setup limitations, SAR testing for NR TDD was performed using test mode software to establish the connection.
- 3. Simultaneous transmission analysis for EN-DC operations is addressed in the Part 2 Test Report (Serial Number can be found in the bibliography).
- 4. This device additionally supports some EN-DC conditions where additional LTE carriers are added on the downlink only.
- 5. Per FCC Guidance, NR modulations and RB Sizes/Offsets were selected for testing such that configurations with the highest output power were evaluated for SAR tests.
- 6. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n77 C-Band SAR measured at the highest output power channel in a given a test configuration was > 0.4 W/kg for 1g evaluations and > 1 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
- 7. Per FCC KDB Publication 447498 D01v06, when the reported NR Band n41/48 SAR measured at the highest output power channel in a given a test configuration was > 0.6 W/kg for 1g evaluations and > 1.5 W/kg for 10g evaluation, testing at the other channels was required for such test configurations.
- 8. SRS was tested with CW signal per Qualcomm guidance in 80-w2112-4.
- 9. For final implementation, NR Band n38, n41, n48 and n77 slot configuration is synchronized using maximum duty cycle of 100%. SAR testing was performed using FTM mode with a 100% duty cycle applied to match final duty cycle.
- 10. Per FCC Guidance, C-Band for NR n77 (3705 3975 MHz) was fully tested according to FCC procedures. For each exposure condition and antenna, the worst-case position was additionally evaluated for the NR n77 DoD (3455.01 3544.98 MHz).
- 11. This device uses two transmit pathways for n41 operations (Path 1 and Path 2). For each exposure condition, the pathway with the highest target power was fully evaluated. The worst case for each antenna and exposure condition was additionally evaluated using the other path.

WLAN Notes:

- 1. For held-to-ear, hotspot, and phablet operations, the initial test position procedures were applied. The test position with the highest extrapolated peak SAR will be used as the initial test position. When reported SAR for the initial test position is ≤ 0.4 W/kg for 1g evaluations, no additional testing for the remaining test positions was required. Otherwise, SAR is evaluated at the subsequent highest peak SAR positions until the reported SAR result is ≤ 0.8 W/kg or all test positions are measured.
- Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 2.4 GHz WIFI
 single transmission chain operations, the highest measured maximum output power channel for DSSS
 was selected for SAR measurement. SAR for OFDM modes (2.4 GHz 802.11g/n/ax) was not required due
 to the maximum allowed powers and the highest reported DSSS SAR. See Section 9.6.5 for more
 information.
- 3. Justification for test configurations for WLAN per KDB Publication 248227 D01v02r02 for 5 GHz WIFI operations, the initial test configuration was selected according to the transmission mode with the highest maximum allowed powers. Other transmission modes were not investigated since the highest reported SAR for initial test configuration adjusted by the ratio of maximum output powers is less than 1.2 W/kg for 1g evaluations. See Section 9.6.6 for more information.
- 4. Per KDB Publication 248227 D01v02r02, SAR for MIMO was evaluated by following the simultaneous SAR provisions from KDB Publication 447498 D01v06 by either evaluating the sum of the 1g SAR values of each antenna transmitting independently or making a SAR measurement with both antennas transmitting simultaneously. Please see Multi-TX and Antenna SAR Considerations Appendix for complete analysis.
- 5. When the maximum reported 1g averaged SAR is ≤0.8 W/kg, SAR testing on additional channels was not required. Otherwise, SAR for the next highest output power channel was required until the reported SAR result was ≤ 1.20 W/kg for 1g evaluations or all test channels were measured.

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- 6. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools. The reported SAR was scaled to the 100% transmission duty factor to determine compliance. Procedures used to measure the duty factor are identical to that in the associated EMC test reports.
- 7. When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.
- 8. Per FCC guidance, SAR was performed using 6.5 GHz SAR probe calibration factor for WIFI 6E. Per October 2020 TCB Workshop notes, 5 channels were tested for WIFI 6E.

Bluetooth Notes

- 1. Bluetooth SAR was measured with the device connected to a call box with hopping disabled with DH5 operation and Tx Tests test mode type. Per October 2016 TCB Workshop Notes, the reported SAR was scaled to the 79% transmission duty factor for Bluetooth and 87% transmission duty factor for Bluetooth LE to determine compliance. See RF Conducted Power Section for the time domain plot and calculation for the duty factor of the device.
- 2. Head and Hotspot Bluetooth SAR were evaluated for BT BDR tethering applications.
- The highest frame average power configurations for both Bluetooth and Bluetooth LE were evaluated for SAR. The worst case configuration was used for the remaining test positions as the most conservative scenario.

UWB Notes:

- 1. UWB was evaluated for phablet based on expected usage conditions.
- 2. Per FCC guidance, SAR was performed using 6.5 GHz/8GHz probe calibration factor for UWB.

NTN Notes:

- 1. Due to equipment limitations, NTN was tested using factory test mode software transmitting CW at 100% duty cycle. The results were scaled down to the maximum duty cycle of 71%.
- 2. NTN NB-loT only supports data transmission, therefore only body-worn and phablet exposure conditions were evaluated.

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13 POWER DENSITY DATA SUMMARY

13.1 6 GHz WIFI Power Density Results

Table 13-1

												labit	7 13)- 1											
												MEASUREM	ENT RESULT	'S				Scaling							
Frequenc y (MHz)	Channel	Mode	Service	Bandwidt h [MHz]	Maximum Allowed Power (Ant H) [dBm]	Conducted Power (Ant H) [dBm]	Maximum Allowed Power (Ant E) [dBm]	Conducted Power (Ant E) [dBm]	Power Drift (dB)	Spacing (mm)	Antenna Config.	DUT Serial Number	Data Rate (Mbps)	Side	Duty Cycle (%)	Grid Step (λ)	iPD (W/m²)	Factor for Measuremen t Uncertainty	Scaling Factor (Power)	Scaling Factor (Duty Cycle)	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.04	2	Н	1258M	34	Back	99.27	0.125	0.477	1.554	1.148	1.007	0.536	0.963	0.665	1.195	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	0.01	2	Н	1258M	34	Front	99.27	0.125	1.510	1.554	1.148	1.007	0.868	1.559	0.976	1.753	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.06	2	Н	1258M	34	Тор	99.27	0.125	3.460	1.554	1.148	1.007	1.030	1.850	1.080	1.940	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.07	2	Н	1258M	34	Left	99.27	0.125	1.430	1.554	1.148	1.007	1.970	3.539	2.250	4.042	
5985.00	7	802.11ax	OFDM	80	11.50	10.53	-	-	-0.08	2	н	1258M	34	Left	99.27	0.125	1.400	1.554	1.250	1.007	2.160	4.225	2.540	4.968	
6465.00	103	802.11ax	OFDM	80	11.00	10.58	-	-	-0.05	2	Н	1258M	34	Left	99.27	0.125	1.370	1.554	1.102	1.007	1.810	3.121	2.060	3.552	
6705.00	151	802.11ax	OFDM	80	11.50	10.80	-	-	0.02	2	Н	1258M	34	Left	99.27	0.125	0.937	1.554	1.175	1.007	1.030	1.894	1.220	2.243	
7025.00	215	802.11ax	OFDM	80	11.00	10.74	-	-	-0.03	2	н	1258M	34	Left	99.27	0.125	0.905	1.554	1.062	1.007	1.490	2.476	1.800	2.991	
6305.00	71	802.11ax	OFDM	80	11.50	10.90	-	-	-0.09	9.51	н	1258M	34	Left	99.27	0.125	0.677	1.554	1.148	1.007	0.669	1.202	0.735	1.320	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.03	2	Е	1258M	34	Back	99.27	0.125	1.770	1.554	1.096	1.007	3.440	5.900	3.920	6.723	A95
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.02	2	Е	1258M	34	Front	99.27	0.125	0.585	1.554	1.096	1.007	0.575	0.986	0.610	1.046	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.08	2	Е	1258M	34	Тор	99.27	0.125	1.230	1.554	1.096	1.007	1.380	2.367	1.670	2.864	
6305.00	71	802.11ax	OFDM	80	-	-	11.50	11.10	0.02	2	Е	1258M	34	Right	99.27	0.125	0.390	1.554	1.096	1.007	0.204	0.350	0.232	0.398	
5985.00	7	802.11ax	OFDM	80	-	-	11.50	10.78	0.05	2	Е	1258M	34	Back	99.27	0.125	1.320	1.554	1.180	1.007	2.030	3.749	2.280	4.210	
6465.00	103	802.11ax	OFDM	80	-	-	11.00	10.92	0.03	2	Е	1258M	34	Back	99.27	0.125	1.440	1.554	1.019	1.007	3.040	4.848	3.600	5.741	
6705.00	151	802.11ax	OFDM	80	-	-	11.50	10.68	0.05	2	Е	1258M	34	Back	99.27	0.125	1.530	1.554	1.208	1.007	2.010	3.800	2.600	4.915	
7025.00	215	802.11ax	OFDM	80	-	-	11.00	10.99	-0.02	2	Е	1258m	34	Back	99.27	0.125	1.170	1.554	1.002	1.007	1.610	2.524	2.150	3.371	
5985.00	7	802.11ax	OFDM	80	11.50	10.85	11.50	9.85	-0.07	2	МІМО	1182M	68.1	Back	99.27	0.125	-	1.554	1.462	1.007	1.910	4.370	2.160	4.942	
6305.00	71	802.11ax	OFDM	80	11.50	9.52	11.50	11.20	0.04	2	МІМО	1182M	68.1	Back	99.27	0.125	-	1.554	1.578	1.007	2.070	5.112	2.390	5.902	
6465.00	103	802.11ax	OFDM	80	11.00	9.04	11.00	10.88	-0.02	2	МІМО	1182M	68.1	Back	99.27	0.125	-	1.554	1.570	1.007	2.540	6.240	2.860	7.027	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	0.12	2	мімо	1182M	68.1	Back	99.27	0.125	-	1.554	1.340	1.007	2.860	5.997	3.250	6.815	
7025.00	215	802.11ax	OFDM	80	11.00	9.49	11.00	10.99	-0.07	2	МІМО	1182M	68.1	Back	99.27	0.125	-	1.554	1.416	1.007	2.300	5.096	2.560	5.673	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	0.11	2	MIMO	1182M	68.1	Front	99.27	0.125	-	1.554	1.340	1.007	1.080	2.265	1.340	2.810	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.12	2	MIMO	1182M	68.1	Тор	99.27	0.125	-	1.554	1.340	1.007	0.833	1.747	1.170	2.453	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.18	2	МІМО	1182M	68.1	Right	99.27	0.125	-	1.554	1.340	1.007	0.312	0.654	0.334	0.700	
6705.00	151	802.11ax	OFDM	80	11.50	11.28	11.50	10.23	-0.13	2	MIMO	1182M	68.1	Left	99.27	0.125	-	1.554	1.340	1.007	1.740	3.649	2.890	6.060	
	47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population																		wer Density 10 W/m² ged over 4 cn	n²					

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13.2 UWB Power Density Results

Table 13-2

	Table 15-2														
						1	MEASUREMEN	T RESULTS							
Frequency (MHz)	Channel	Mode	Power Drift (dB)	Spacing (mm)	DUT Serial Number	Side	Grid Step (λ)	iPD (W/m²)	Scaling Factor for Measurement Uncertainty per IEC 62479	Normal psPD (W/m²)	Scaled Normal psPD (W/m²)	Total psPD (W/m²)	Scaled Total psPD (W/m²)	Plot #	
6489.60	5	CW	-0.06	2	1322M	Back	0.125	1	1.554	0.115	0.179	0.121	0.188		
6489.60	5	CW	-0.08	2	1322M	Front	0.125	1	1.554	0.102	0.159	0.108	0.168		
6489.60	5	CW	-0.04	2	1322M	Тор	0.125	0.162	1.554	0.057	0.089	0.069	0.107		
7987.20	5	CW	-0.06	2	1322M	Left	0.125		1.554	0.088	0.137	0.094	0.146		
7987.20	9	CW	-0.06	2	1322M	Back	0.125		1.554	0.135	0.210	0.167	0.260	A96	
7987.20	9	CW	-0.08	2	1322M	Front	0.125	-	1.554	0.023	0.036	0.030	0.047		
7987.20	9	CW	-0.10	2	1322M	Тор	0.125	•	1.554	0.061	0.095	0.078	0.121		
6489.60	9	CW	0.01	2	1322M	Left	0.125	-	1.554	0.095	0.148	0.100	0.155		
6489.60	5	CW	0.01	9.24	1322M	Тор	0.125	0.062	1.554	0.048	0.075	0.056	0.087		
	47 CFR §1.1310 - SAFETY LIMIT Spatial Average Uncontrolled Exposure / General Population					Spatial Average 10 W/m²									

Power Density General Notes

- 1. The manufacturer has confirmed that the devices tested have the same physical, mechanical and thermal characteristics and are within operational tolerances expected for production units.
- 2. Batteries are fully charged at the beginning of the measurements. The DUT was connected to a wall charger for some measurements due to the test duration. It was confirmed that the charger plugged into this DUT did not impact the near-field PD test results.
- 3. Power density was calculated by repeated E-field measurements on two measurement planes separated
- 4. The device was configured to transmit continuously at the required data rate, channel bandwidth and signal modulation, using the highest transmission duty factor supported by the test mode tools.
- 5. Per FCC guidance and equipment manufacturer guidance, power density results were scaled according to IEC 62479:2010 for the portion of the measurement uncertainty > 30%. Total expanded uncertainty of 2.68 dB (85.4%) was used to determine the psPD measurement scaling factor.
- 6. Per equipment manufacturer guidance, power density was measured at d=2mm and d= λ /5mm using the same grid size and grid step size for some frequencies and surfaces. The integrated Power Density (iPD) was calculated based on these measurements. Since iPD ratio between the two distances is ≥ -1dB, the grid step was sufficient for determining compliance at d=2mm.
- 7. psPD for MIMO was evaluated by making a measurement with both antennas transmitting simultaneously.
- 8. PTP-PR algorithm was used during psPD measurement and calculations.
- 9. PD results were scaled to the maximum allowed power to demonstrate compliance per FCC KDB Publication 447498 D04.

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14 SAR MEASUREMENT VARIABILITY

Measurement Variability

Per FCC KDB Publication 865664 D01v01r04, SAR measurement variability was assessed for each frequency band, which was determined by the SAR probe calibration point and tissue-equivalent medium used for the device measurements. When both head and body tissue-equivalent media were required for SAR measurements in a frequency band, the variability measurement procedures were applied to the tissue medium with the highest measured SAR, using the highest measured SAR configuration for that tissue-equivalent medium. These additional measurements were repeated after the completion of all measurements requiring the same head or body tissue-equivalent medium in a frequency band. The test device was returned to ambient conditions (normal room temperature) with the battery fully charged before it was re-mounted on the device holder for the repeated measurement(s) to minimize any unexpected variations in the repeated results.

SAR Measurement Variability was assessed using the following procedures for each frequency band:

- When the original highest measured SAR is ≥ 0.80 W/kg, the measurement was repeated once.
- 2) A second repeated measurement was performed only if the ratio of largest to smallest SAR for the original and first repeated measurements was > 1.20 or when the original or repeated measurement was ≥ 1.45 W/kg (~ 10% from the 1a SAR limit).
- 3) A third repeated measurement was performed only if the original, first or second repeated measurement was ≥ 1.5 W/kg and the ratio of largest to smallest SAR for the original, first and second repeated measurements is > 1.20.
- Repeated measurements are not required when the original highest measured SAR is < 0.80 W/kg
- When 10g SAR measurement is considered, a factor of 2.5 is applied to the thresholds above.

Table 14-1 Head SAR Measurement Variability Results

				HEAD VARIABILITY	RESULT	s								
Band	FREQU	JENCY	Mode	Service	Side	Test Position	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)	
750	793.00	23330	LTE Band 14, 10 MHz Bandwidth	QPSK	Left	Tilt	Е	0.806	0.731	1.10	N/A	N/A	N/A	N/A
1900	1860.00	26140	LTE Band 25 (PCS), 20 MHz Bandwidth	QPSK, 1 RB, 0 Offset	Right	Tilt	F	0.918	0.884	1.04	N/A	N/A	N/A	N/A
2300	2310.00	27710	LTE Band 30, 10 MHz Bandwidth	QPSK, 50 RB, 0 Offset	Right	Cheek	F	0.855	0.831	1.03	N/A	N/A	N/A	N/A
3700	3750.00	650000	NR Band 77, 100 MHz Bandwidth	QPSK, 1 RB, 271 Offset	Right	Tilt	F	0.908	0.898	1.01	N/A	N/A	N/A	N/A
3900	3930.00	662000	NR Band 77, 100 MHz Bandwidth	QPSK, 270 RB, 0 Offset	Right	Tilt	F	0.950	0.932	1.02	N/A	N/A	N/A	N/A
	ANSI / IEEE C95.1 1992 - SAFETY LIMIT								Hea		•			•
	Spatial Peak Uncontrolled Exposure/General Population						_		1.6 W/kg averaged ov					

Table 14-2 Body SAR Measurement Variability Results

	BODY VARIABILITY RESULTS														
Band	FREQUENCY		Mode	Service		Spacing	Antenna Config	Measured SAR (1g)	1st Repeated SAR (1g)	Ratio	2nd Repeated SAR (1g)	Ratio	3rd Repeated SAR (1g)	Ratio	
	MHz	Ch.						(W/kg)	(W/kg)		(W/kg)		(W/kg)		
1750	1752.60	1513	UMTS 1750	RMC	Bottom	10 mm	Α	0.896	0.862	1.04	N/A	N/A	N/A	N/A	
			ANSI / IEEE C95.1 1992 - SAF	ETY LIMIT						Body					
	Spatial Peak							1.6 W/kg (mW/g)							
	Uncontrolled Exposure/General Population						averaged over 1 gram								

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Table 14-3 Phablet SAR Measurement Variability Results

	T Hubit OAK Medsarement Variability Results													
	PHABLET VARIABILITY RESULTS													
Band	FREQUENCY Band		Mode	Service	Side	Spacing	Antenna Config	Measured SAR (10g)	1st Repeated SAR (10g)	Ratio	2nd Repeated SAR (10g)	Ratio	3rd Repeated SAR (10g)	Ratio
	MHz Ch.							(W/kg)	(W/kg)		(W/kg)		(W/kg)	
1640	640 1626.60 261505 NTN Band 255 CW Top						F	3.990	3.940	1.01	N/A	N/A	N/A	N/A
5750	5720.00	144	6 GHz WIFI/IEE 802.11a	OFDM	Left	0 mm	Н	2.080	2.020	1.03	N/A	N/A	N/A	N/A
5805	5865.00	173	6 GHz WIFI/IEE 802.11a	OFDM	Left	0 mm	Н	2.410	2.420	1.00	N/A	N/A	N/A	N/A
		ANS	I / IEEE C95.1 1992 - SAFETY LIMIT							Phablet				
	Spatial Peak							4.0 W/kg (mW/g)						
		Uncont	rolled Exposure/General Population				average	d over 10	grams					

14.2 Measurement Uncertainty

The measured SAR was <1.5 W/kg for 1g and <3.75 W/kg for 10g for all frequency bands. Therefore, per KDB Publication 865664 D01v01r04, the extended measurement uncertainty analysis per IEEE 1528-2013 was not required.

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15 ADDITIONAL TESTING PER FCC GUIDANCE

15.1 **Tuner Testing**

Per April 2019 TCB Workshop Notes, the following test procedures were followed to demonstrate that the SAR results in Section 12 represented the appropriate SAR test conditions. For bands with dynamic tuning implemented, SAR was measured according to the required FCC SAR test procedures with the dynamic tuner active to allow the device to automatically tune to the antenna state for the respective RF exposure test configurations. Additional single point SAR time-sweep measurements were evaluated for other tuner states to determine that the other tuner configurations would result in equivalent or lower SAR values. The additional tuner hardware has no influence on the antenna characteristics, other than impedance matching.

To evaluate all the tuner states, the 96 tuner states were divided among the aggregate band, mode and exposure combinations. Single point time-sweep measurements were performed at the peak SAR location determined by the zoom scan of the configuration with the highest measured SAR for each combination. The tuner state was able to be established remotely so that the device was not moved for the entire series of single point SAR for the tuner states in each combination. The SAR probe remained stationary at the same position throughout the entire series of single point measurements for each combination. When the single point SAR or 1g SAR was > 1.2 W/kg for a particular band/mode/exposure condition, point SAR measurements were made for all 96 states.

The operational description contains more information about the design and implementation of the dynamic antenna tuning.

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Table 15-1 UMTS Supplemental Head SAR Data

OWITO Supplemental Head SAN Data												
		Supplemental H	Head SAR Data									
UMT	S B5	UMT	S B4	UMTS B2								
RN	ИC	RN	ЛС	RMC								
Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek							
Frequency (MHz)	846.60	Frequency (MHz)	1712.40	Frequency (MHz)	1880.00							
Channel	4233	Channel	1312	Channel	9400							
Measured 1g SAR	0.172	Measured 1g SAR	0.172	Measured 1g SAR	0.188							
(W/kg)	0.172	(W/kg)	0.172	(W/kg)	0.100							
Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)							
Auto-tune (State 0)	0.175	Auto-tune (State 11)	0.176	Auto-tune (State 1)	0.194							
Default (State 1)	0.169	Default (State 55)	0.157	Default (State 0)	0.180							
State 0	0.174	State 1	0.141	State 1	0.184							
State 16	0.108	State 11	0.165	State 2	0.180							
State 40	0.031	State 17	0.121	State 18	0.163							
State 47	0.113	State 46	0.036	State 45	0.048							
State 48	0.082	State 49	0.024	State 50	0.045							
State 76	0.013	State 77	0.077	State 78	0.082							
State 95	0.069	State 94	0.063	State 93	0.104							

Table 15-2 LTE Supplemental Head SAR Data

			Supplemental I	Head SAR Data						Supplemental I	lead SAR Data		
LTE	B71	LTE	B12	LTE	B13	LTE	B14	LTE B26		LTE B66		LTE	B25
QPSK, 20 MHz Ban	dwidth, 1 RB, 50 RB	QPSK, 10 MHz Ban	dwidth, 1 RB, 0 RB	QPSK, 10 MHz Band	dwidth, 1 RB, 49 RB	QPSK, 10 MHz Ban	dwidth, 1 RB, 49 RB	QPSK, 15 MHz Ban	dwidth, 1 RB, 36 RB	QPSK, 20 MHz Ban	dwidth, 1 RB, 50 RB	QPSK, 20 MHz Bar	dwidth, 1 RB, 0 RB
Off	set	Off	set	Off	set	Off	set	Off	set	Of	'set	Off	set
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	831.50	Frequency (MHz)	1720.00	Frequency (MHz)	1860.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	26865	Channel	132072	Channel	26140
Measured 1g SAR (W/kg)	0.134	Measured 1g SAR (W/kg)	0.139	Measured 1g SAR (W/kg)	0.135	Measured 1g SAR (W/kg)	0.164	Measured 1g SAR (W/kg)	0.140	Measured 1g SAR (W/kg)	0.200	Measured 1g SAR (W/kg)	0.157
Average Value of T	lime Sweep (W/kg)	Average Value of T	me Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of T	îme Sweep (W/kg)	Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W)	
Auto-tune (State 0)	0.139	Auto-tune (State 1)	0.149	Auto-tune (State 11)	0.152	Auto-tune (State 0)	0.163	Auto-tune (State 0)	0.152	Auto-tune (State 56)	0.214	Auto-tune (State 1)	0.165
Default (State 0)	0.127	Default (State 0)	0.132	Default (State 11)	0.133	Default (State 0)	0.158	Default (State 1)	0.153	Default (State 55)	0.217	Default (State 0)	0.202
State 0	0.127	State 1	0.143	State 5	0.036	State 0	0.158	State 0	0.149	State 11	0.195	State 0	0.200
State 3	0.089	State 4	0.113	State 11	0.133	State 6	0.074	State 7	0.080	State 27	0.021	State 13	0.192
State 19	0.028	State 20	0.010	State 21	0.005	State 22	0.122	State 23	0.113	State 36	0.174	State 29	0.026
State 44	0.109	State 43	0.000	State 42	0.001	State 41	0.010	State 40	0.033	State 56	0.187	State 34	0.160
State 51	0.023	State 52	0.010	State 53	0.006	State 54	0.003	State 55	0.034	State 59	0.176	State 61	0.171
State 79	0.065	State 80	0.097	State 81	0.061	State 82	0.082	State 83	0.071	State 84	0.034	State 82	0.099
State 92	0.107	State 91	0.047	State 90	0.083	State 89	0.135	State 88	0.146	State 90	0.053	State 92	0.047

Table 15-3 NR Supplemental Head SAR Data

						Supplemental F	lead SAR Data						
NR Ba	nd n71	NR Bar	nd n12	NR Ba	nd n14	NR Ba	NR Band n26		NR Band n70		NR Band n66		nd n25
DFT-OFDM QPSK, 2	OFDM QPSK, 20 MHz Bandwidth, 90 DFT-OFDM QPSK, 15 MHz Bandwidth,		5 MHz Bandwidth, 1	DFT-OFDM QPSK, 1	0 MHz Bandwidth, 1	DFT-OFDM QPSK, 2	0 MHz Bandwidth, 1	DFT-S-OFDM QPSK,	15 MHz Bandwidth, 1	1 DFT-s-OFDM QPSK, 40 MHz Bandwidth,		DFT-s-OFDM QPSK,	40 MHz Bandwidth, 1
RB, 49 F	RB, 49 RB Offset RB, 1 RB Offs		3 Offset	RB, 26 RB Offset		RB, 104 F	RB Offset	RB, 77 F	B Offset	108 RB, 54	4 RB Offset	RB, 108 RB Offset	
Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Right Cheek	Test Position	Left Cheek	Test Position	Left Cheek	Test Position	Left Cheek
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50
Channel	136100	Channel	141500	Channel	158600	Channel	167300	Channel	340500	Channel	349000	Channel	376500
Measured 1g SAR	0.110	Measured 1g SAR	0.108	Measured 1g SAR	0.053	Measured 1g SAR	0.059	Measured 1g SAR	0.139	Measured 1g SAR	0.205	Measured 1g SAR	0.166
(W/kg)	0.110	(W/kg)	0.100	(W/kg)	0.000	(W/kg)	0.039	(W/kg)	0.139	(W/kg)	0.203	(W/kg)	0.100
Average Value of 7	Time Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of Time Sweep (W/kg)		Average Value of T	ime Sweep (W/kg)
Auto-tune (State 0)	0.109	Auto-tune (State 1)	0.106	Auto-tune (State 0)	0.060	Auto-tune (State 0)	0.062	Auto-tune (State 55)	0.147	Auto-tune (State 56)	0.229	Auto-tune (State 1)	0.173
Default (State 0)	0.111	Default (State 0)	0.112	Default (State 0)	0.054	Default (State 1)	0.055	Default (State 55)	0.144	Default (State 55)	0.192	Default (State 0)	0.169
State 0	0.111	State 1	0.105	State 0	0.056	State 0	0.058	State 20	0.054	State 21	0.039	State 1	0.181
State 15	0.078	State 16	0.048	State 17	0.024	State 19	0.012	State 27	0.015	State 26	0.023	State 22	0.042
State 31	0.006	State 31	0.006	State 30	0.003	State 28	0.018	State 36	0.145	State 37	0.165	State 25	0.039
State 32	0.002	State 32	0.002	State 33	0.037	State 35	0.027	State 55	0.132	State 56	0.207	State 38	0.157
State 63	0.002	State 64	0.000	State 65	0.000	State 67	0.038	State 68	0.133	State 69	0.057	State 70	0.055
State 80	0.068	State 79	0.074	State 78	0.043	State 76	0.004	State 75	0.056	State 74	0.012	State 73	0.028
State 94	0.068	State 95	0.037	State 94	0.044	State 92	0.046	State 91	0.142	State 90	0.060	State 89	0.147

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Table 15-4
UMTS Supplemental Body SAR Data

		owns Supplement	iai bouy SAR Data	2		
		Supplemental E	Body SAR Data			
UMT	S B5	UMT:	S B4	UMTS B2		
RN	ЛС	RN	IC	RMC		
Test Position	Back	Test Position	Bottom	Test Position	Bottom	
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	
Frequency (MHz)	846.60	Frequency (MHz)	1752.60	Frequency (MHz)	1880.00	
Channel	4233	Channel	1513	Channel	9400	
Measured 1g SAR (W/kg)	0.325	Measured 1g SAR (W/kg)	- I 0.896 I		0.695	
Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	Average Value of T	īme Sweep (W/kg)	
Auto-tune (State 0)	0.348	Auto-tune (State 11)	0.979	Auto-tune (State 3)	0.765	
Default (State 1)	0.359	Default (State 55)	0.820	Default (State 0)	0.631	
State 0	0.362	State 11	0.959	State 3	0.779	
State 23	0.244	State 22	0.204	State 21	0.365	
State 24	0.232	State 25	0.141	State 26	0.129	
State 40	0.071	State 41	0.371	State 42	0.542	
State 71	0.208	State 70	0.212	State 69	0.228	
State 72	0.173	State 73	0.121	State 74	0.168	
State 87	0.015	State 86	0.121	State 85	0.215	

Table 15-5
LTE Supplemental Body SAR Data

						Supplemental E	Body SAR Data						
LTE	B71	LTE	B12	LTE	B13	LTE	B14	LTE	LTE B26 LTE B66		B66	LTE B25	
QPSK, 20 MHz Ban	ndwidth, 1 RB, 50 RB	QPSK, 10 MHz Ban	dwidth, 1 RB, 0 RB	QPSK, 10 MHz Ban	dwidth, 1 RB, 49 RB	QPSK, 10 MHz Ban	dwidth, 1 RB, 49 RB	QPSK, 15 MHz Ban	dwidth, 1 RB, 36 RB	QPSK, 20 MHz Bai	ndwidth, 1 RB, 0 RB	QPSK, 20 MHz Bandwidth, 1 RB, 0 RB	
Off	fset	Off	set	Off	fset	Off	set	Off	set	Of	fset	Off	set
Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Back	Test Position	Bottom	Test Position	Bottom
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	782.00	Frequency (MHz)	793.00	Frequency (MHz)	831.50	Frequency (MHz)	1770.00	Frequency (MHz)	1860.00
Channel	133297	Channel	23095	Channel	23230	Channel	23330	Channel	26865	Channel	132572	Channel	26140
Measured 1g SAR	0.374	Measured 1g SAR	0.337	Measured 1g SAR	0.360	Measured 1g SAR	0.379	Measured 1g SAR	0.293	Measured 1g SAR	0.783	Measured 1g SAR	0.623
(W/kg)	0.374	(W/kg)	0.337	(W/kg)	0.300	(W/ka)	0.379	(W/kg)	0.293	(W/kg)	0.763	(W/kg)	0.023
	Time Sweep (W/kg)	Average Value of T	îme Sweep (W/kg)	Average Value of 1	Time Sweep (W/kg)	Average Value of T	îme Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)		Time Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)
			0.377		0.394		ime Sweep (W/kg) 0.435				Time Sweep (W/kg) 0.864		0.647
Average Value of 1		Average Value of T		Average Value of T		Average Value of T		Average Value of T		Average Value of		Average Value of T	
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0	0.406 0.402 0.402	Average Value of T Auto-tune (State 1) Default (State 0) State 1	0.377 0.429 0.448	Average Value of T Auto-tune (State 0)	0.394 0.384 0.355	Average Value of T Auto-tune (State 0)	0.435	Average Value of T Auto-tune (State 0)	0.326	Average Value of Auto-tune (State 55) Default (State 55) State 12	0.864 0.848 0.669	Average Value of T Auto-tune (State 0)	0.647 0.624 0.624
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 20	0.406 0.402	Average Value of T Auto-tune (State 1) Default (State 0)	0.377 0.429	Average Value of 1 Auto-tune (State 0) Default (State 11)	0.394 0.384 0.355 0.097	Average Value of T Auto-tune (State 0) Default (State 0)	0.435 0.416 0.416 0.195	Average Value of T Auto-tune (State 0) Default (State 1)	0.326 0.343 0.327 0.179	Average Value of Auto-tune (State 55) Default (State 55)	0.864 0.848 0.669 0.676	Average Value of 1 Auto-tune (State 0) Default (State 0)	0.647 0.624 0.624 0.620
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0	0.406 0.402 0.402	Average Value of T Auto-tune (State 1) Default (State 0) State 1	0.377 0.429 0.448 0.064 0.153	Average Value of 1 Auto-tune (State 0) Default (State 11) State 0	0.394 0.384 0.355 0.097 0.038	Average Value of T Auto-tune (State 0) Default (State 0) State 0	0.435 0.416 0.416 0.195 0.053	Average Value of T Auto-tune (State 0) Default (State 1) State 0	0.326 0.343 0.327 0.179 0.048	Average Value of Auto-tune (State 55) Default (State 55) State 12	0.864 0.848 0.669 0.676 0.079	Average Value of 1 Auto-tune (State 0) Default (State 0) State 0	0.647 0.624 0.624 0.620 0.501
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 20 State 27 State 43	0.406 0.402 0.402 0.055 0.114 0.004	Average Value of T Auto-tune (State 1) Default (State 0) State 1 State 19 State 28 State 44	0.377 0.429 0.448 0.064 0.153 0.361	Average Value of 1 Auto-tune (State 0) Default (State 11) State 0 State 18	0.394 0.384 0.355 0.097 0.038 0.261	Average Value of T Auto-tune (State 0) Default (State 0) State 0 State 17 State 30 State 46	0.435 0.416 0.416 0.195 0.053 0.295	Average Value of T Auto-tune (State 0) Default (State 1) State 0 State 16 State 31 State 47	0.326 0.343 0.327 0.179 0.048 0.202	Average Value of Auto-tune (State 55) Default (State 55) State 12 State 35 State 51 State 55	0.864 0.848 0.669 0.676 0.079 0.848	Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 10 State 37 State 53	0.647 0.624 0.624 0.620 0.501 0.091
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 20 State 27	0.406 0.402 0.402 0.055 0.114	Average Value of T Auto-tune (State 1) Default (State 0) State 1 State 19 State 28	0.377 0.429 0.448 0.064 0.153	Average Value of 1 Auto-tune (State 0) Default (State 11) State 0 State 18 State 29	0.394 0.384 0.355 0.097 0.038 0.261 0.332	Average Value of T Auto-tune (State 0) Default (State 0) State 0 State 17 State 30	0.435 0.416 0.416 0.195 0.053 0.295 0.007	Average Value of T Auto-tune (State 0) Default (State 1) State 0 State 16 State 31	0.326 0.343 0.327 0.179 0.048	Average Value of Auto-tune (State 55) Default (State 55) State 12 State 35 State 51	0.864 0.848 0.669 0.676 0.079	Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 10 State 37	0.647 0.624 0.624 0.620 0.501
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 20 State 27 State 43	0.406 0.402 0.402 0.055 0.114 0.004	Average Value of T Auto-tune (State 1) Default (State 0) State 1 State 19 State 28 State 44	0.377 0.429 0.448 0.064 0.153 0.361	Average Value of 1 Auto-tune (State 0) Default (State 11) State 0 State 18 State 29 State 45	0.394 0.384 0.355 0.097 0.038 0.261	Average Value of T Auto-tune (State 0) Default (State 0) State 0 State 17 State 30 State 46	0.435 0.416 0.416 0.195 0.053 0.295	Average Value of T Auto-tune (State 0) Default (State 1) State 0 State 16 State 31 State 47	0.326 0.343 0.327 0.179 0.048 0.202	Average Value of Auto-tune (State 55) Default (State 55) State 12 State 35 State 51 State 55	0.864 0.848 0.669 0.676 0.079 0.848	Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 10 State 37 State 53	0.647 0.624 0.624 0.620 0.501 0.091 0.398 0.181
Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 20 State 27 State 43 State 68	0.406 0.402 0.402 0.055 0.114 0.004 0.184	Average Value of T Auto-tune (State 1) Default (State 0) State 1 State 19 State 28 State 44 State 67	0.377 0.429 0.448 0.064 0.153 0.361 0.245	Average Value of 1 Auto-tune (State 0) Default (State 11) State 0 State 18 State 29 State 45 State 66	0.394 0.384 0.355 0.097 0.038 0.261 0.332	Average Value of T Auto-tune (State 0) Default (State 0) State 0 State 17 State 30 State 46 State 65	0.435 0.416 0.416 0.195 0.053 0.295 0.007	Average Value of T Auto-tune (State 0) Default (State 1) State 0 State 16 State 31 State 47 State 64	0.326 0.343 0.327 0.179 0.048 0.202 0.013	Average Value of Auto-tune (State 55) Default (State 55) State 12 State 35 State 51 State 55 State 60	0.864 0.848 0.669 0.676 0.079 0.848 0.586	Average Value of 1 Auto-tune (State 0) Default (State 0) State 0 State 10 State 37 State 53 State 58	0.647 0.624 0.624 0.620 0.501 0.091 0.398

Table 15-6 NR Supplemental Body SAR Data

						Supplemental E	Body SAR Data							
NR Ba	and n71	NR Bar	nd n12	NR Ba	nd n14	NR Ba	nd n26	NR Bar	nd n70	NR Ba	NR Band n66		NR Band n25	
DFT-s-OFDM QPSK,	35 MHz Bandwidth, 1	DFT-OFDM QPSK, 1:	5 MHz Bandwidth, 36	DFT-OFDM QPSK, 1	0 MHz Bandwidth, 1	DFT-OFDM QPSK, 2	0 MHz Bandwidth, 1	DFTs-OFDM QPSK, 1	15 MHz Bandwidth, 1	CP-OFDM QPSK, 4	5 MHz Bandwidth, 1	 DFTs-OFDM QPSK, 40 MHz Bandwidt 		
RB, 94 I	RB Offset	RB, 22 R	B Offset	RB, 26 F	RB Offset	RB, 104	RB Offset	RB, 77 R	B Offset	RB, 1 R	B Offset	108 RB, 54	RB Offset	
Test Position	Back	Test Position	Back	Test Position	Right	Test Position	Back	Test Position	Bottom	Test Position	Bottom	Test Position	Bottom	
Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	Spacing	10 mm	
Frequency (MHz)	680.50	Frequency (MHz)	707.50	Frequency (MHz)	793.00	Frequency (MHz)	836.50	Frequency (MHz)	1702.50	Frequency (MHz)	1745.00	Frequency (MHz)	1882.50	
Channel	136100	Channel	141500	Channel	158600	Channel	167300	Channel	340500	Channel	349000	Channel	376500	
Measured 1g SAR (W/kg)	0.331	Measured 1g SAR (W/kg)	0.383	Measured 1g SAR (W/kg)	0.108	Measured 1g SAR (W/kg)	0.295	Measured 1g SAR (W/kg)	0.830	Measured 1g SAR (W/kg)	0.871	Measured 1g SAR (W/kg)	0.736	
Average Value of	Time Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of 7	ime Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	Average Value of 7	Time Sweep (W/kg)	Average Value of T	ime Sweep (W/kg)	
Auto-tune (State 0)	0.311	Auto-tune (State 1)	0.394	Auto-tune (State 1)	0.114	Auto-tune (State 0)	0.330	Auto-tune (State 11)	0.894	Auto-tune (State 11)	0.928	Auto-tune (State 5)	0.699	
Default (State 0)	0.373	Default (State 0)	0.414	Default (State 0)	0.112	Default (State 1)	0.337	Default (State 55)	0.740	Default (State 55)	0.817	Default (State 0)	0.673	
State 0	0.373	State 1	0.426	State 1	0.117	State 0	0.333	State 3	0.721	State 2	0.758	State 1	0.694	
State 8	0.053	State 7	0.110	State 6	0.063	State 4	0.290	State 11	0.903	State 11	0.928	State 5	0.701	
State 39	0.027	State 40	0.016	State 41	0.010	State 43	0.017	State 44	0.236	State 45	0.244	State 46	0.208	
State 55	0.129	State 55	0.096	State 54	0.004	State 52	0.036	State 51	0.144	State 50	0.155	State 49	0.248	
State 56	0.184	State 56	0.179	State 57	0.072	State 59	0.233	State 60	0.724	State 61	0.709	State 62	0.646	
State 72	0.039	State 71	0.063	State 70	0.068	State 68	0.239	State 67	0.316	State 66	0.383	State 65	0.484	
State 87	0.007	State 88	0.340	State 89	0.096	State 91	0.143	State 92	0.232	State 93	0.804	State 94	0.247	

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EQUIPMENT LIST

Manufacturer Agilent	Model E44048 E4439C	Description Spectrum Analyzer	Call Date N/A 11/14/2023	Cal Interval N/A	Cal Due N/A	Serial Number MY45113242
Agilent Agilent Agilent Agilent	E4439C E4439C N5182A N5182A	ESG Vector Signal Generator ESG Vector Signal Generator MXG Vector Signal Generator MXG Vector Signal Generator	11/14/2023 11/15/2023 10/12/2023 3/7/2024	Annual Annual Annual Annual	11/14/2024 11/15/2024 10/12/2024 3/7/2025	MY45093852 MY45092078 MY47400015
Agilent Agilent	8753ES 8753ES	S-Parameter Vector Network Analyzer S-Parameter Vector Network Analyzer	1/10/2024 7/21/2023	Annual Annual	1/10/2025 7/21/2024	MY40001472 US39170118
Agilent Agilent Agilent	E5515C E5515C N4010A	Wireless Communications Test Set Wireless Communications Test Set Wireless Connectivity Test Set	CBT CBT N/A	N/A N/A N/A	CBT CBT N/A	G846310798 U541140256 G846170464
Amplifier Research Amplifier Research Amplifier Research	155166 155166 150A100C	Amplifier Amplifier Amplifier	CBT CBT CBT	N/A N/A N/A	CBT CBT	433973 433974 350132
Anritsu Anritsu	MN81108 ML2496A ML2495A	I/O Adaptor Power Meter Power Meter	CBT 6/24/2024 7/8/2024	N/A Annual Annual	CBT 6/24/2025 7/8/2025	6261747881 1840005 1039008
Anritsu Anritsu Anritsu	ML2495A MA24118 MA24118	Power Meter Pulse Power Sensor Pulse Power Sensor	7/8/2024 8/22/2023 11/8/2023	Annual Annual Annual	6/12/2024	1039008 1726262 1027293
Anritsu Anritsu	MT8821C MT8821C	Radio Communication Analyzer MT8823C Radio Communication Analyzer MT8823C	12/15/2023 5/15/2024	Annual Annual	11/8/2024 12/15/2024 5/15/2025 5/30/2025	6200901190 6262150047
Anritsa Anritsa Anritsa Anritsa	MT8000A MT8000A MT8000A	Radio Communication Analyzer MT8823C Radio Communication Test Station Radio Communication Test Station Radio Communication Test Station	5/30/2024 CBT 4/10/2024 5/2/2024	N/A Annual Annual	5/30/2025 CBT 4/10/2025 5/2/2025	6262044715 626196-7072 6261987983 6272337436
Anritsu Anritsu Anritsu	MESODA MA24106A MA24106A	Radio Communication Test Station USB Power Sensor USB Power Sensor	5/2/2024 12/4/2023 4/15/2024	Annual Annual Annual	5/2/2025 12/4/2024 4/15/2025	6272337436 1520501 1827528
Mini-Circuits Control Company Control Company	PWR-4GHS 4052 4052	USB Power Sensor Long Stem Thermometer	6/12/2024 2/27/2024 2/27/2024	Annual Biernial Biernial	6/12/2025 2/27/2026 2/27/2026	12001070013 240174346 240173096
Control Company Control Company	4052 4052 4040	Long Stem Thermometer Long Stem Thermometer Therm, f Clock/ Humidity Monitor Therm of Clock/ Humidity Monitor	2/27/2024 2/27/2024 4/15/2024	Biennial Biennial	2/27/2026 2/27/2026 4/15/2026 4/15/2026	240171059 240171059 240310280
Control Company Control Company	4040 566279 500,196,30	Therm. / Clock / Humidity Monitor Therm. / Clock / Humidity Monitor CD-6'ASX 6tech Dietal Calinar	4/15/2024 2/16/2024 2/16/2022	Siennial Siennial Triennial	4/15/2026 2/16/2026 2/16/2025	240310282 240140051 A 20238413
Keysight Technologies Agilent	N9020A N9020A	MKA Signal Analyzer MKA Signal Analyzer	4/11/2024 6/14/2024	Annual Annual	4/11/2025 6/14/2025	MY54500644 MY56470202
MCL Mini-Circuits Mini-Circuits	BW-N6W5+ VLF-6000+ VLF-6000+	6dB Attenuator Low Pass Filter DC to 6000 MHz Low Pass Filter DC to 6000 MHz	CBT CBT 7/5/2023	N/A N/A Annual	CBT CBT 7/5/2024	1139 N/A 31634
Mini-Circuits Mini-Circuits	BW-N20W5+ NLP-1200+	DC to 18 GHz Precision Fixed 20 dB Attenuator Low Pass Filter DC to 2000 MHz	CBT	N/A N/A	CBT	N/A N/A
Mini-Circuits Mini-Circuits Mini-Circuits	NLP-2950+ BW-N20W5 ZUDC10-83-S+	Low Pass Filter DC to 2700 MHz Power Attenuator Directional Coupler	CBT CBT	N/A N/A N/A	CBT CBT	N/A 1226 2050
Narda Narda	4772-3 BW-53W2	Attenuator (3dB) Attenuator (3dB)	CBT	N/A N/A	CBT	9406 120
Seekonk Seekonk Rohde & Schwarz Rohde & Schwarz	NC-100 NC-100 CMW500	Torque Wrench Torque Wrench Wideband Radio Communication Tester	CBT 4/2/2024 1/11/2024 1/10/2024	N/A Biernial Annual	CBT 4/2/2026 1/11/2025 1/10/2025	22217 1262 150117
Rohde & Schwarz Rohde & Schwarz Rohde & Schwarz	CMW500 CMW500	Wideband Radio Communication Tester Wideband Radio Communication Tester Wideband Radio Communication Tester	8/10/2023	Annual Annual	8/10/2024	150117 131454 140144 162125
SPEAG SPEAG	DAK-3.5 DAKS-3.5	Dielectric Assessment Kit Portable Dielectric Assessment Kit	8/9/2023 11/13/2023 8/14/2023	Annual Annual	8/9/2024 11/13/2024 8/14/2024	162125 1277 1041
SPEAG SPEAG SPEAG	MAIA MAIA MAIA	Modulation and Audio Interference Analyzer Modulation and Audio Interference Analyzer Modulation and Audio Interference Analyzer	N/A N/A N/A	N/A N/A N/A	N/A N/A N/A	1237 1331 1390
SPEAG SPEAG SPEAG	DAK-12 CLA-13 D750V3	Dielectric Assessment Kit (4MHz - 3GHz) Confined Loop Anterna	3/11/2024 11/9/2023 10/19/2021	Annual Annual Triennial	3/11/2025 11/9/2024 10/19/2024	1102 1004 1161
SPEAG SPEAG	D750V3 D750V3	750 MHz SAR Dipole	3/14/2022	Triennial Biennial	9/14/19096	1054
SPEAG SPEAG	D835V2 D835V2	835 MHz SAR Dipole 835 MHz SAR Dipole 835 MHz SAR Dipole	3/11/2024 5/16/2022	Annual Triennial	9/13/2025 9/13/2025 3/11/2025 5/16/2025	4d133 4d040 4d119
SPEAG SPEAG SPEAG	D835V2 D835V2 D1640V2	835 MHz SAR Dipole 1640 MHz SAR Dipole	1/18/2024 12/13/2022	Annual Biennial	1/18/2025 1/18/2025 12/13/2024	46119 46132 321 1150
SPEAG SPEAG SPEAG	D1750V2 D1750V2 D1750V2	1750 MHz SAR Dipole 1750 MHz SAR Dipole 1750 MHz SAR Dipole	10/22/2021 4/15/2024 1/18/2022	Triennial Annual Triennial	10/22/2024 4/15/2025 1/18/2025	1150 1051 1148
SPEAG SPEAG SPEAG	D1900V2 D1900V2 D2300V2	1900 MHz SAR Dipole 1900 MHz SAR Dipole 2300 MHz SAR Dipole	2/21/2022 4/12/2024 11/14/2023	Triennial Annual Annual	2/21/2025 4/12/2025 11/14/2024	5d148 5d141 1064
SPEAG SPEAG SPEAG	D2300V2 D2450V2 D2450V2	2300 MHz SAR Dipole 2450 MHz SAR Dipole 2450 MHz SAR Dipole	3/11/2024 2/8/2024 5/10/2024	Annual Annual Annual	3/11/2025 2/8/2025 5/10/2025	1038 882 945
SPEAG SPEAG SPEAG	D2450V2 D2450V2 D2600V2	2450 MHz SAR Dipple 2450 MHz SAR Dipple 2600 MHz SAR Dipple	5/11/2022 11/15/2022 5/11/2022	Triennial Biennial Triennial	5/11/2025 11/15/2024 5/11/2025	750 855 1042
SPEAG SPEAG SPEAG	D2600V2 D2600V2 D3500V2	2500 MHz SAR Dipole 2500 MHz SAR Dipole 3500 MHz SAR Dipole	9/12/2023 6/14/2024 12/13/2023 1/12/2034	Annual Annual	9/12/2025 6/14/2025 12/13/2024 1/12/2025	1069 1009 1068
SPEAG SPEAG SPEAG	D3500V2 D3500V2 D3700V2	3500 MHz SAR Dipole 3500 MHz SAR Dipole 3700 MHz SAR Dipole	12/13/2023	Annual Annual	12/13/2024	1059 1029
SPEAG SPEAG SPEAG	D3700V2 D3900V2 D3700V2	3700 MHz SAR Dipole 3900 MHz SAR Dipole 3700 MHz SAR Dipole	1/13/2023 10/19/2023 1/9/2024	Annual Annual	1/13/2025 10/19/2024 1/9/2025	1067 1056 1018
SPEAG SPEAG SPEAG	DSGHzV2 DSGHzV2 D6.5GHzV2	5 GHz SAR Dipole 5 GHz SAR Dipole 6.5 GHz SAR Dipole	2/21/2024 4/9/2024 2/22/2024	Annual Annual	2/21/2025 4/9/2025 2/22/2025	1057 1237 1111
SPEAG SPEAG	D6.5GHzV2 D8GHzV2	6.5 GHz SAR Dipole 8GHz SAR Dipole	10/11/2023 3/4/2024	Annual Annual	10/11/2024 3/4/2025	1019 1007
SPEAG SPEAG SPEAG	5G Verification Source 10GHz 5G Verification Source 10GHz DAE4	10GHz System Verification Antenna 10GHz System Verification Antenna Dasy Data Acquisition Electronics	3/5/2024 8/22/2024 1/16/2024	Annual Annual Annual	3/5/2025 8/22/2025 1/16/2025	1002 1004 1582
SPEAG SPEAG	DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	7/8/2024 4/9/2024	Annual Annual	7/8/2025 4/9/2025	1677 1415
SPEAG SPEAG SPEAG	DAE4 DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	3/1/2024 5/8/2024 5/8/2024	Annual Annual	3/1/2025 5/8/2025 5/8/2025	665 1678 728
SPEAG SPEAG SPEAG	DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	9/10/2024 1/16/2024 8/8/2024	Annual Annual Annual	9/10/2025 1/16/2025 8/8/2025	1364 1466 1532
SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	6/11/2024 4/18/2024	Annual Annual	6/11/2025 4/18/2025	1334 1407
SPEAG SPEAG SPEAG	DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	2/9/2024 5/8/2024 4/9/2024	Annual Annual Annual	2/9/2025 5/8/2025 4/9/2025	467 1683 1652
SPEAG SPEAG SPEAG	DAE4 DAE4	Dasy Data Acquisition Electronics	2/9/2024 5/8/2024	Annual Annual	2/9/2025 5/8/2025	1645 1502
SPEAG SPEAG SPEAG	DAE4 DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	5/8/2024 3/6/2024 3/6/2024	Annual Annual	5/8/2025 5/8/2025 5/8/2025 3/6/2025 3/6/2025	604 534 1272
SPEAG SPEAG SPEAG	DAE4 DAE4 DAE4	Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics Dasy Data Acquisition Electronics	3/12/2024 3/12/2024 1/16/2024 7/18/2024	Annual Annual Annual	3/6/2025 3/12/2025 1/16/2025 7/18/2025	1272 1530 1583
SPEAG SPEAG	EX3DV4	Dasy Data Acquisition Electronics SAR Probe	12/5/2023 4/16/2024	Annual Annual	12/5/2024 4/16/2025	1639 7357
SPEAG SPEAG SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe SAR Probe	7/18/2024 2/9/2024 1/16/2024	Annual Annual Annual	7/18/2025 2/9/2025 1/16/2025	7406 7308 7565
SPEAG SPEAG SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe SAR Probe	9/2/2024 3/8/2024 6/17/2024	Annual Annual	9/2/2025 3/8/2025 6/17/2025	7491 7488 7409
SPEAG SPEAG SPEAG SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe SAR Probe	5/8/2024 4/17/2024	Annual Annual	5/8/2025 5/8/2025 4/17/2025	7660 7718 7427
SPEAG SPEAG SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe SAR Probe SAR Probe	2/9/2024 4/17/2024 5/13/2024	Annual Annual Annual	2/9/2025 4/17/2025 5/13/2025	7427 7659 7682
SPEAG SPEAG	EX30V4 EX30V4	SAR Probe SAR Probe	4/17/2024 2/9/2024	Annual Annual	4/17/2025 2/9/2025	7637 7640
SPEAG SPEAG SPEAG	EX3DV4 EX3DV4 EX3DV4	SAR Probe SAR Probe SAR Probe	5/10/2024 5/10/2024 3/11/2024	Annual Annual Annual	5/10/2025 5/10/2025 3/11/2025	7402 3914 7421
SPEAG SPEAG	EX3DV4 EX3DV4	SAR Probe SAR Probe	3/8/2024 9/11/2024	Annual Annual	3/8/2025 9/11/2025	7527 7558
SPEAG SPEAG SPEAG	EX30V4 EX30V4 EX30V4	SAR Probe SAR Probe SAR Probe	1/15/2024 6/28/2024 5/13/2024	Annual Annual Annual	1/15/2025 6/28/2025 5/13/2024	7570 7803 7552
SPEAG SPEAG	EUmmWV4 EUmmWV4	EUmmWV4Probe EUmmWV4Probe	2/2/2024 3/4/2024	Annual Annual	2/2/2025 3/4/2025	9622 9421

Note: CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements. Note: All equipment was used solely within its respective calibration period.

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03/30/2022



17 **MEASUREMENT UNCERTAINTIES**

"Note: The tables below represent the worst-case uncertainty budget among the uncertainty budgets of all testing laboratories listed in Section 1.2 "

Applicable for SAR measurements < 6GHz:

for SAR measurements < 6GHz:	1	1	1	1	1		1	Т	
а	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	Ui	Ui	Vi
							(± %)	(± %)	
Measurement System									
Probe Calibration	E.2.1	7	Ν	1	1	1	7.0	7.0	∞
Axial Isotropy	E.2.2	0.25	N	1	0.7	0.7	0.2	0.2	8
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	8
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	8
Linearity	E.2.4	0.3	N	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	N	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	1		RSS	l		ı	12.2	12.0	191
Expanded Uncertainty			k=2				24.4	24.0	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for SAR measurements > 6GHz:

а	b	С	d	e=	f	g	h =	i =	k
				f(d,k)			c x f/e	c x g/e	
	IEEE	Tol.	Prob.		Ci	Ci	1gm	10gms	
Uncertainty Component	1528 Sec.	(± %)	Dist.	Div.	1gm	10 gms	Ui	u _i	Vi
	000.	. ,			J		(± %)	(± %)	
Measurement System									
Probe Calibration	E.2.1	9.3	Ν	1	1	1	9.3	9.3	∞
Axial Isotropy	E.2.2	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	E.2.2	1.3	Ν	1	0.7	0.7	0.9	0.9	8
Boundary Effect	E.2.3	2	R	1.73	1	1	1.2	1.2	∞
Linearity	E.2.4	0.3	Ν	1	1	1	0.3	0.3	∞
System Detection Limits	E.2.4	0.25	R	1.73	1	1	0.1	0.1	∞
Modulation Response	E.2.5	4.8	R	1.73	1	1	2.8	2.8	∞
Readout Electronics	E.2.6	0.3	Ν	1	1	1	0.3	0.3	∞
Response Time	E.2.7	0.8	R	1.73	1	1	0.5	0.5	∞
Integration Time	E.2.8	2.6	R	1.73	1	1	1.5	1.5	∞
RF Ambient Conditions - Noise	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
RF Ambient Conditions - Reflections	E.6.1	3	R	1.73	1	1	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	E.6.2	0.8	R	1.73	1	1	0.5	0.5	∞
Probe Positioning w/ respect to Phantom	E.6.3	6.7	R	1.73	1	1	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	E.5	4	R	1.73	1	1	2.3	2.3	∞
Test Sample Related									
Test Sample Positioning	E.4.2	3.12	Ν	1	1	1	3.1	3.1	35
Device Holder Uncertainty	E.4.1	1.67	Ν	1	1	1	1.7	1.7	5
Output Power Variation - SAR drift measurement	E.2.9	5	R	1.73	1	1	2.9	2.9	∞
SAR Scaling	E.6.5	0	R	1.73	1	1	0.0	0.0	∞
Phantom & Tissue Parameters									
Phantom Uncertainty (Shape & Thickness tolerances)	E.3.1	7.6	R	1.73	1.0	1.0	4.4	4.4	∞
Liquid Conductivity - measurement uncertainty	E.3.3	4.3	Ν	1	0.78	0.71	3.3	3.0	76
Liquid Permittivity - measurement uncertainty	E.3.3	4.2	Ν	1	0.23	0.26	1.0	1.1	75
Liquid Conductivity - Temperature Uncertainty	E.3.4	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	E.3.4	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	E.3.2	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	E.3.2	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1)	L	1	RSS	1	1		13.8	13.6	191
Expanded Uncertainty			k=2				27.6	27.1	
(95% CONFIDENCE LEVEL)									

The above measurement uncertainties are according to IEEE Std. 1528-2013

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Applicable for Power Density Measurements:

a	b	С	d	е	f =	g
					c x f/e	
	Unc.	Prob.			Ui	
Uncertainty Component	(± dB)	Dist.	Div.	Ci	(± dB)	Vi
Measurement System						
Calibration	0.49	N	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor MechanicalOffset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	N	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	2.00	R	1.73	1	1.15	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	8
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related	<u>.</u>					
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)		RSS			1.34	8
Expanded Uncertainty		k=2			2.68	
(95% CONFIDENCE LEVEL)						

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18 CONCLUSION

Measurement Conclusion 18.1

The SAR evaluation indicates that the EUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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Element Materials Technology

(formerly PCTEST) 7185 Oakland Mills Road, Columbia, MD 21046 USA Tel. +1.410.290.6652 / Fax +1.410.290.6654 http://www.element.com



RF Exposure Part 2 Test Report

Applicant Name:

Samsung Electronics Co., Ltd. 129, Samsung-ro, Maetan dong, Yeongtong-gu, Suwon-si Gyeonggi-do, 16677, Korea

Date of Testing:

09/16/2024 - 10/22/2023

Test Site/Location:

Element, Columbia, MD, USA

Document Serial No.: 1M2408260064-24.A3L

FCC ID: A3LSMS936U

APPLICANT: SAMSUNG ELECTRONICS CO., LTD.

DUT Type: Portable Handset **Application Type:** Certification FCC Rule Part(s): CFR §2.1093 Model(s): SM-S936U Additional Model(s): SM-S936U1

Pre-Production Samples [2291M, 2292M] **Device Serial Numbers:**

I attest to the accuracy of data. All measurements reported herein were performed by me or were made under my supervision and are correct to the best of my knowledge and belief. I assume full responsibility for the completeness of these measurements and vouch for the qualifications of all persons taking them. Test results reported herein relate only to the item(s) tested.

RJ Ortanez

Executive Vice President



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DEVICE UNDER TEST

1.1 **Device Overview**

Band & Mode	Operating Modes	Tx Frequency
LTE Band 71	Voice/Data	665.5 - 695.5 MHz
LTE Band 12	Voice/Data	699.7 - 715.3 MHz
LTE Band 13	Voice/Data	779.5 - 784.5 MHz
LTE Band 14	Voice/Data	790.5 - 795.5 MHz
LTE Band 26	Voice/Data	814.7 - 848.3 MHz
LTE Band 5	Voice/Data	824.7 - 848.3 MHz
LTE Band 66	Voice/Data	1710.7 - 1779.3 MHz
LTE Band 4	Voice/Data	1710.7 - 1773.3 MHz
LTE Band 25	Voice/Data	1850.7 - 1914.3 MHz
LTE Band 2	Voice/Data	1850.7 - 1909.3 MHz
LTE Band 30	Voice/Data	2307.5 - 2312.5 MHz
LTE Band 7	Voice/Data	2502.5 - 2567.5 MHz
LTE Band 41	Voice/Data	2498.5 - 2687.5 MHz
LTE Band 38	Voice/Data	2572.5 - 2617.5 MHz
LTE Band 48	Voice/Data	
NR Band n71	Voice/Data	3552.5 - 3697.5 MHz 665.5 - 695.5 MHz
NR Band n12	Voice/Data	
NR Band n14		701.5 - 713.5 MHz
NR Band n26	Voice/Data Voice/Data	790.5 - 795.5 MHz
NK Band n26	voice/Data	816.5 - 846.5 MHz
NR Band n5	Voice/Data	826.5 - 846.5 MHz
NR Band n70	Voice/Data	1697.5 - 1707.5 MHz
NR Band n66	Voice/Data	1712.5 - 1777.5 MHz
NR Band n25	Voice/Data	1852.5 - 1912.5 MHz
NR Band n30	Voice/Data	2307.5 - 2312.5 MHz
NR Band n7	Voice/Data	2502.5 - 2567.5 MHz
NR Band n41	Voice/Data	2501.01 - 2685 MHz
NR Band n38	Voice/Data	2575 - 2615 MHz
NR Band n48	Voice/Data	3555 - 3694.98 MHz
NR Band n78	Voice/Data	3455.01 - 3544.98 MHz;
NIN Dalid 1170	Voice/Data	3705 - 3795 MHz
NR Band n77	Voice/Data	3455.01 - 3544.98 MHz;
ND D I OSSAITAL		3705 - 3975 MHz
NR Band n255 NTN	Voice/Data	1629 - 1658 MHz
2.4 GHz WIFI	Voice/Data	2412 - 2462 MHz
		U-NII-1: 5180 - 5240 MHz
5 GHz WIFI	Voice/Data	U-NII-2A: 5260 - 5320 MHz
0 0112 11111	V0.00/ Bata	U-NII-2C: 5500 - 5720 MHz
		U-NII-3: 5745 - 5825 MHz
		U-NII-5: 5945 - 6415 MHz
6 GHz WIFI	Voice/Data	U-NII-6: 6435 - 6515 MHz
O GHZ WIFI	VUICE/Dald	U-NII-7: 6535 - 6875 MHz
		U-NII-8: 6895 - 7115 MHz
2.4 GHz Bluetooth	Data	2402 - 2480 MHz
NFC	Data	13.56 MHz
UWB	Data	6489.6 - 7987.2 MHz

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1.2 Time-Averaging Algorithm for RF Exposure Compliance

This device is enabled with Qualcomm® Smart Transmit feature. This feature performs time averaging algorithm in real time to control and manage transmitting power and ensure the time-averaged RF exposure is in compliance with FCC requirements all the time. DUT contains embedded file system (EFS) version 23 configured for the second generation (GEN2) for Sub6.

The Smart Transmit algorithm maintains the time-averaged transmit power, in turn, time-averaged RF exposure of SAR design target or PD design target, below the predefined time-averaged power limit (i.e., Plimit for sub-6 radio, and input.power.limit for 5G mmW NR), for each characterized technology and band.

Smart Transmit allows the device to transmit at higher power instantaneously, as high as P_{max} , when needed, but enforces power limiting to maintain time-averaged transmit power to P_{limit} for frequencies < 6 GHz and input.power.limit for frequencies > 6 GHz.

Note that the device uncertainty for sub-6GHz is 1.0 dB for this DUT, the device uncertainty for mmW is 1.4 dB.

The following input parameters are key parameters that are required for functionality of the Smart Transmit feature. These parameters cannot be accessed by the end user, because at the factory they are entered through the embedded file system (EFS) entries by the OEM.

- Tx_power_at_SAR_design_target (Plimit in dBm) for Tx transmitting frequency < 6 GHz The maximum time-average transmit power, in dBm, at which this radio configuration (i.e., band and technology) reaches the SAR_design_target. This SAR_design_target is pre-determined for the specific device and it shall be less than regulatory SAR limit after accounting for all design related tolerances. The time-averaged SAR is assessed against this SAR_design_target in real time to determine the compliance. The Plimit could vary with technology, band, antenna and DSI (device state index), therefore it has the
- input.power.limit (dBm) for Tx transmitting frequency ≥ 6 GHz The maximum time-average power at the input of antenna element port, in dBm, at which each beam meets the PD design target that is less than the regulatory power density limit after accounting for all design related tolerances.

This purpose of the Part 2 report is to demonstrate the DUT complies with FCC RF exposure requirement under Tx varying transmission scenarios, thereby validity of Qualcomm[®] Smart Transmit feature implementation in this device. It serves to compliment the Part 0 and Part 1 Test Reports to justify compliance per FCC.

1.3 Part 2 Test Case Reduction for Multiple Filings

unique value for each technology, band, antenna and DSI.

Per FCC guidance, the number of test cases for Part 2 evaluation can be reduced in the case of multiple filings using the same chipset after full part 2 testing on the first filing. While the same chipset and Smart Transmit algorithm are used in this model, DUT with the final SW was tested for power measurements to verify the integration. The SAR, as described in Section 3, measurements are excluded per FCC guidance.

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1.4 **Bibliography**

Report Type	Report Serial Number
RF Exposure Part 1 Test Report	1M2408260064-23.A3L
RF Exposure Part 0 Test Report	1M2408260064-31.A3L
PD Part 1 Test Report	1M2408260064-25.A3L
PD Part 0 Test Report	
RF Exposure Compliance Summary	1M2408260064-26.A3L

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2 RF EXPOSURE LIMITS

2.1 Uncontrolled Environment

UNCONTROLLED ENVIRONMENTS are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

2.2 Controlled Environment

CONTROLLED ENVIRONMENTS are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. This exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

2.3 RF Exposure Limits for Frequencies Below 6 GHz

Table 2-1 SAR Human Exposure Specified in ANSI/IEEE C95.1-1992 and Health Canada Safety Code 6

HUMAN EXPOSURE LIMITS			
	UNCONTROLLED ENVIRONMENT	CONTROLLED ENVIRONMENT	
	General Population (W/kg) or (mW/g)	Occupational (W/kg) or (mW/g)	
Peak Spatial Average SAR Head	1.6	8.0	
Whole Body SAR	0.08	0.4	
Peak Spatial Average SAR Hands, Feet, Ankle, Wrists, etc.	4.0	20	

The Spatial Peak value of the SAR averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

The Spatial Peak value of the SAR averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube) and over the appropriate averaging time.

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The Spatial Average value of the SAR averaged over the whole body.



2.4 RF Exposure Limits for Frequencies Above 6 GHz

Per §1.1310 (d)(3), the MPE limits are applied for frequencies above 6 GHz. Power Density is expressed in units of W/m² or mW/cm².

Peak Spatially Averaged Power Density was evaluated over a circular area of 4 cm² per interim FCC Guidance for near-field power density evaluations per October 2018 TCB Workshop notes.

Table 2-2
Human Exposure Limits Specified in FCC 47 CFR §1.1310

Human Exposure to Radiofrequency (RF) Radiation Limits				
Frequency Range Power Density Averaging Time [MHz] [mW/cm²] [Minutes]				
(A) Limit	(A) Limits for Occupational / Controlled Environments			
1,500 – 100,000	5.0	6		
(B) Limits for General Population / Uncontrolled Environments				
1,500 – 100,000	1.0	30		

Note: 1.0 mW/cm² is 10 W/m²

2.5 Time Averaging Windows for FCC Compliance

Per October 2018 TCB Workshop Notes, the below time-averaging windows can be used for assessing time-averaged exposures for devices that are capable of actively monitoring and adjusting power output over time to comply with exposure limits.

Interim Guidance	Frequency (GHz)	Maximum Averaging Time (sec)
SAR	< 3	100
SAK	3-6	60
	6 - 10	30
	10 - 16	14
	16 - 24	8
MPE	24 – 42	4
	42 – 95	2

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3 TIME VARYING TRANSMISSION TEST CASES

To validate the time averaging feature and demonstrate the compliance in Tx varying transmission conditions, the following transmission scenarios are covered in the Part 2 test:

- During a time-varying Tx power transmission: To prove that the Smart Transmit feature accounts for Tx power variations in time accurately.
- 2. During a call disconnect and re-establish scenario: To prove that the Smart Transmit feature accounts for history of past Tx power transmissions accurately.
- 3. During a technology/band handover: To prove that the Smart Transmit feature functions correctly during transitions in technology/band.
- 4. During a DSI (Device State Index) change: To prove that the Smart Transmit feature functions correctly during transition from one device state (DSI) to another.
- 5. During an antenna (or beam) switch: To prove that the Smart Transmit feature functions correctly during transitions in antenna (such as AsDiv scenario) or beams (different antenna array configurations) or beams (different antenna array configurations).
- 6. SAR vs. PD exposure switching during sub-6+mmW transmission: To prove that the Smart Transmit feature functions correctly and ensures total RF exposure compliance during transitions in SAR dominant exposure, SAR+PD exposure, and PD dominant exposure scenarios.
- 7. During time window switch: To prove that the Smart Transmit feature correctly handles the transition from one time window to another specified by FCC, and maintains the normalized time-averaged RF exposure to be less than normalized FCC limit of 1.0 at all times.
- 8. SAR exposure switching between two active radios (radio1 and radio2): To prove that the Smart Transmit feature functions correctly and ensures total RF exposure compliance when exposure varies among SAR_radio1 only, SAR_radio1 + SAR_radio2, and SAR_radio2 only scenarios.
- 9. System level compliance continuity: Within terrestrial networks (WWAN, WLAN, BT, etc.): To demonstrate the time averaged RF exposure compliance continuity during technology transition in both single-radio and multiradio transmission scenarios and under both modes (i.e., ON and airplane) of WWAN modem.

NOTE: Technology in this test refers to WWAN, WLAN and/or Bluetooth

- NOTE: For WWAN, theoretically, either sub6 radio or mmW radio can be selected for this system level compliance continuity test as Smart Transmit internal operation is identical. Thus, the test with either WWAN sub6 or mmW radio is sufficient. However, since FCC time average window for WWAN mmW NR is 4 seconds, to be more practical and feasible in actual measurement, sub6 WWAN radio is recommended to be selected for this test.
- NOTE: BT allowed maximum power will be at one of the 3 levels populated in EFS depending on transmission scenarios, and BT's Pmax allocated by Smart Transmit is always ≤ Plimit. Therefore, for 10.b), either WWAN or WLAN can be selected as a terrestrial network for demonstrating the compliance continuity during bi-directional transitions between non-terrestrial networks and terrestrial network. Test with one pair of terrestrial and non-terrestrial radios is sufficiant as the continuity among all terrestrial technologies is covered and validated.

As described in Part 0 report, the RF exposure is proportional to the Tx power for a SAR- and PD-characterized wireless device. Thus, feature validation in Part 2 can be effectively performed through conducted (for f < 6GHz)

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and radiated (for f \geq 6GHz) power measurement. Therefore, the compliance demonstration under dynamic transmission conditions and feature validation are done in conducted/radiated power measurement setup for transmission scenario 1 through 10.

To add confidence in the feature validation, the time-averaged SAR and PD measurements are also performed but only performed for transmission scenario 1 to avoid the complexity in SAR and PD measurement (such as, for scenario 3 requiring change in SAR probe calibration file to accommodate different bands and/or tissue simulating liquid).

The strategy for testing in Tx varying transmission condition is outlined as follows:

- Demonstrate the total RF exposure averaged over FCC defined time windows does not exceed FCC's SAR and PD limits, through time-averaged power measurements
 - Measure conducted Tx power (for f < 6GHz) versus time, and radiated Tx power (EIRP for f > 10GHz) versus time.
 - Convert it into RF exposure and divide by respective FCC limits to get normalized exposure versus time.
 - Perform running time-averaging over FCC defined time windows.
 - Demonstrate that the total normalized time-averaged RF exposure is less than 1 for all transmission scenarios (i.e., transmission scenarios 1, 2, 3, 4, 5, 6, 7, and 8) at all times.

Mathematical expression:

For < 6 GHz transmission only:

$$1g_or_10gSAR(t) = \frac{conducted_Tx_power(t)}{conducted_Tx_power_P_{limit}} * 1g_or_10gSAR_P_{limit}$$
 (1a)

$$\frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} 1g_or_10gSAR(t)dt}{FCC SAR \ limit} \le 1$$
 (1b)

For sub-6+mmW transmission:

$$1g_or_10gSAR(t) = \frac{conducted_Tx_power(t)}{conducted_Tx_power_P_{limit}} * 1g_or_10gSAR_P_{limit}$$
 (2a)

$$4cm^{2}PD(t) = \frac{radiated_Tx_power(t)}{radiated_Tx_power_input.power.limit} * 4cm^{2}PD_input.power.limit$$
(2b)

$$\frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} 1g_or_10gSAR(t)dt}{FCC\ SAR\ limit} + \frac{\frac{1}{T_{PD}} \int_{t-T_{PD}}^{t} 4cm^2PD(t)dt}{FCC\ 4cm^2\ PD\ limit} \le 1 \tag{2c}$$

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- where, $conducted_Tx_power(t)$, $conducted_Tx_power_P_{limit}$, and $1g_or_10gSAR_P_{limit}$ correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit} , and measured 1gSARor 10gSAR values at P_{limit} corresponding to sub-6 transmission. Similarly, $radiated_Tx_power(t)$, radiated Tx power input.power.limit, and 4cm²PD input.power.limit correspond to the measured instantaneous radiated Tx power, radiated Tx power at input.power.limit (i.e., radiated power limit), and 4cm²PD value at *input.power.limit* corresponding to mmW transmission. Both P_{limit} and *input.power.limit* are the parameters pre-defined in Part 0 and loaded via Embedded File System (EFS) onto the EUT. TSAR is the FCC defined time window for sub-6 radio; *T_{PD}* is the FCC defined time window for mmW radio.
 - Demonstrate the total RF exposure averaged over FCC defined time windows does not exceed FCC's SAR and PD limits, through time-averaged SAR and PD measurements. Note as mentioned earlier, this measurement is performed for transmission scenario 1 only.
 - For sub-6 transmission only, measure instantaneous SAR versus time; for LTE+sub6 NR transmission, request low power (or all-down bits) on LTE so that measured SAR predominantly corresponds to sub6 NR.
 - For LTE + mmW transmission, measure instantaneous E-field versus time for mmW radio and instantaneous conducted power versus time for LTE radio.
 - Convert it into RF exposure and divide by respective FCC limits to obtain normalized exposure versus time.
 - Perform time averaging over FCC defined time window.
 - Demonstrate that the total normalized time-averaged RF exposure is less than 1 for transmission scenario 1 at all times.

Mathematical expression:

For sub-6 transmission only:

$$1g_or_10gSAR(t) = \frac{pointSAR(t)}{pointSAR_Plimit} * 1g_or_10gSAR(t)_P_{limit}$$
 (3a)

$$\frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} \frac{1g_{-}or_{-}10gSAR(t)dt}{FCC\ SAR\ limit} \le 1$$
 (3b)

For sub-6 + $f \ge 6GHz$ transmission:

$$1g_or_10gSAR(t) = \frac{conducted_Tx_power(t)}{conducted_Tx_power_P_{limit}} * 1g_or_10gSAR_P_{limit}$$
 (4a)

$$4cm^2PD(t) = \frac{[pointE(t)]^2}{[pointE_input.power.limit]^2} * 4cm^2PD_input.power.limit$$
 (4b)

$$\frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} 1g_or_10gSAR(t)dt}{FCC\ SAR\ limit} + \frac{\frac{1}{T_{PD}} \int_{t-T_{PD}}^{t} 4cm^2PD(t)dt}{FCC\ 4cm^2PD\ limit} \le 1 \tag{4c}$$

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where, pointSAR(t), $pointSAR_{limit}$, and $1g_or_10gSAR_P_{limit}$ correspond to the measured instantaneous point SAR, measured point SAR at P_{limit} , and measured 1gSAR or 10gSAR values at P_{limit} corresponding to sub-6 transmission. Similarly, pointE(t), $pointE_input.power.limit$, and $4cm^2PD_input.power.limit$ correspond to the measured instantaneous E-field, E-field at input.power.limit, and $4cm^2PD$ value at input.power.limit corresponding to mmW transmission.

Note: cDASY6 measurement system by Schmid & Partner Engineering AG (SPEAG) of Zurich, Switzerland measures relative E-field, and provides ratio of $\frac{[pointE(t)]^2}{[pointE_input.power.limit]^2}$ versus time.

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FCC MEASUREMENT PROCEDURES (FREQ < 6 GHZ) 4

This chapter provides the test plan and test procedure for validating Qualcomm Smart Transmit feature for sub-6 transmission. The 100 seconds time window for operating f < 3GHz is used as an example to detail the test procedures in this chapter. The same test plan and test procedures described in this chapter apply to 60 seconds time window for operating $f \ge 3GHz$.

4.1 Test Sequence Determination for Validation

Following the FCC recommendation, two test sequences having time-variation in Tx power are predefined for sub-6 (f < 6 GHz) validation:

- Test sequence 1: request DUT's Tx power to be at maximum power, measured P_{max}^{\dagger} , for 80s, then requesting for half of the maximum power, i.e., measured $P_{max}/2$, for the rest of the time.
- Test sequence 2: request DUT's Tx power to vary with time. This sequence is generated relative to measured P_{max} , measured P_{limit} and calculated $P_{reserve}$ (= measured P_{limit} in dBm - total min reserve in dB) of DUT based on measured Plimit.

The details for generating these two test sequences is described and listed in Appendix E.

NOTE: For test sequence generation, "measured P_{limit} " and "measured P_{max} " are used instead of the " P_{limit} " specified in EFS entry and " P_{max} " specified for the device, because the Smart Transmit feature operates against the actual power level of the "Plimit" that was calibrated for the DUT. The "measured P_{limit} " accurately reflects what the feature is referencing to, therefore, it should be used during feature validation testing. The RF tune up and device-to-device variation are already considered in Part 0 report prior to determining Plimit.

4.2 **Test Configuration Selection Criteria for Validating Smart Transmit Feature**

For validating the Smart Transmit feature, this section provides the general guidance to select test cases.

4.2.1 Time-Varying Tx Power Transmission

The Smart Transmit time averaging feature operation is independent of bands, modes, and channels for a given technology. Hence, validation of Smart Transmit in one band/mode/channel per technology is sufficient. Two bands per technology are proposed and selected for this testing to provide high confidence in this validation.

Note this test is designed for single radio transmission scenario. If UE supports sub6 NR in both non-standalone (NSA) and standalone (SA) modes, then validation in time-varying Tx power transmission scenario described in this section needs to be performed in SA mode. Otherwise, it needs to be performed in NSA mode with LTE anchor set to low power. The choice between SA and NSA mode needs to also take into account the selection criteria described below. In general, one mode out of the two modes (NSA or SA) is sufficient for this test.

The criteria for the selection are based on the Plimit values determined in Part 0 report. Select two bands* in each supported technology that correspond to least** and highest*** P_{limit} values that are less than P_{max} for validating Smart Transmit. Note:

1. P_{max} refers to maximum Tx power configured for this device in this technology/band (not rated P_{max}). This P_{max} definition applies throughout this Part 2 report.

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- 2. If $P_{limit} > P_{max}$, the validation test with time-varying test sequences is not needed as no power enforcement will be required in this condition.
- * If one P_{limit} level applies to all the bands within a technology, then only one band needs to be tested. In this case, within the bands having the same P_{limit} , the radio configuration (e.g., # of RBs, channel#) and device position that correspond to the highest measured 1gSAR at Plimit shown in Part 1 report is selected.
- ** In case of multiple bands having the same least P_{limit} within the technology, then select the band having the highest measured 1gSAR at Plimit.
- *** The band having a higher Plimit needs to be properly selected so that the power limiting enforced by Smart Transmit can be validated using the pre-defined test sequences. If the highest Plimit in a technology is too high where the power limiting enforcement is not needed when testing with the pre-defined test sequences, then the next highest level is checked. This process is continued within the technology until the second band for validation testing is determined.

4.2.2 Change In Call

The criteria to select a test configuration for call-drop measurement is:

- Select technology/band with least Plimit among all supported technologies/bands, and select the radio configuration (e.g., # of RBs, channel#) in this technology/band that corresponds to the highest measured 1gSAR at Plimit listed in Part 1 report.
- In case of multiple bands having same least Plimit, then select one band/radio configuration for this

This test is performed with the DUT's Tx power requested to be at maximum power, the above band selection will result in Tx power enforcement (i.e., DUT forced to have Tx power at Preserve) for longest duration in one FCC defined time window. The call change (call drop/reestablish) is performed during the Tx power enforcement duration (i.e., during the time when DUT is forced to have Tx power at Preserve). One test is sufficient as the feature operation is independent of technology and band.

4.2.3 Change In Technology/Band

The selection criteria for this measurement is, for a given antenna, to have DUT switch from a technology/band with lowest P_{limit} within the technology group (in case of multiple bands having the same P_{limit} , then select the band with highest measured 1gSAR at P_{limit}) to a technology/band with highest P_{limit} within the technology group, in case of multiple bands having the same P_{limit} , then select the band with lowest measured 1gSAR at P_{limit} in Part 1 report, or vice versa.

This test is performed with the DUT's Tx power requested to be at maximum power, the technology/band switch is performed during Tx power enforcement duration (i.e., during the time when DUT is forced to have Tx power at Preserve).

Change In Antenna 4.2.4

The criteria to select a test configuration for antenna switch measurement is:

Whenever possible and supported by the DUT, first select antenna switch configuration within the same technology/band (i.e., same technology and band combination).

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- Then, select any technology/band that supports multiple Tx antennas, and has the highest difference in *P_{limit}* among all supported antennas.
- In case of multiple bands having same difference in P_{limit} among supported antennas, then select the band having the highest *measured* 1gSAR at P_{limit} in Part 1 report.

This test is performed with the DUT's Tx power requested to be at maximum power in selected technology/band, and antenna change is conducted during Tx power enforcement duration (i.e., during the time when DUT is forced to have Tx power at $P_{reserve}$).

4.2.5 Change In DSI

The criteria to select a test configuration for DSI change test is

• Select a technology/band having the $P_{limit} < P_{max}$ within any technology and DSI group, and for the same technology/band having a different P_{limit} in any other DSI group. Note that the selected DSI transition need to be supported by the device.

This test is performed with the DUT's Tx power requested to be at maximum power in selected technology/band, and DSI change is conducted during Tx power enforcement duration (i.e., during the time when DUT is forced to have Tx power at *P*_{reserve}).

4.2.6 Change In Time Window

FCC specifies different time window for time averaging based on operation frequency. The criteria to select a test configuration for validating Smart Transmit feature and demonstrating the compliance during the change in time window is

- Select any technology/band that has operation frequency classified in one time window defined by FCC (such as 100-seconds time window), and its corresponding P_{limit} is less than P_{max} if possible.
- Select the 2nd technology/band that has operation frequency classified in a different time window defined by FCC (such as 60-seconds time window), and its corresponding P_{limit} is less than P_{max} if possible.
- Note it is preferred both P_{limit} values of two selected technology/band less than corresponding P_{max} , but if not possible, at least one of technologies/bands has its P_{limit} less than P_{max} .

This test is performed with the EUT's Tx power requested to be at maximum power in selected technology/band. Test for one pair of time windows selected is sufficient as the feature operation is the same.

4.2.7 SAR Exposure Switching

If supported, the test configuration for SAR exposure switching should cover

- 1. SAR exposure switch when two active radios are in the same time window
- 2. SAR exposure switch when two active radios are in different time windows. One test with two active radios in any two different time windows is sufficient as Smart Transmit operation is the same for RF exposure switch in any combination of two different time windows. For device supporting LTE + mmW NR, this test is covered in SAR vs PD exposure switch validation.

The Smart Transmit time averaging operation is independent of the source of SAR exposure (for example, LTE vs. Sub6 NR) and ensures total time-averaged RF exposure compliance. Hence, validation of Smart Transmit in any one simultaneous SAR transmission scenario (i.e., one combination for LTE + Sub6 NR transmission) is sufficient, where the SAR exposure varies among SAR_{radio1} only, SAR_{radio1} + SAR_{radio2}, and SAR_{radio2} only scenarios.

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The criteria to select a test configuration for validating Smart Transmit feature during SAR exposure switching scenarios is

- Select any two < 6GHz technologies/bands that the EUT supports simultaneous transmission (for example, LTE+Sub6 NR).
- Among all supported simultaneous transmission configurations, the selection order is
 - 1. select one configuration where both P_{limit} of radio1 and radio2 is less than their corresponding P_{max} , preferably, with different P_{limits} . If this configuration is not available, then.
 - 2. select one configuration that has P_{limit} less than its P_{max} for at least one radio. If this can not be found, then,
 - 3. select one configuration that has P_{limit} of radio1 and radio2 greater than P_{max} but with least $(P_{limit} - P_{max})$ delta.

Test for one simultaneous transmission scenario is sufficient as the feature operation is the same.

4.2.8 **Exposure Category Switch**

The criteria to select a test configuration for exposure category switch measurement is:

- 1. If the device's intended exposure mode is configured for time averaged exposure mode operation, then:
 - □ If Plimit < Pmax for at least one radio out of all supported technology/band/antenna/DSI, then:
 - Out of all head exposure DSIs, select a technology/band/antenna/DSI having the least Plimit (< Pmax), furthermore, having the largest difference between Pmax and Plimit (Plimit < Pmax) should be considered in the selection. Then, select a second DSI in the non- head exposure category DSI that has the least Plimit among all the non-head DSIs for the same technology/band/antenna. This technology/band/antenna and selected DSIs are used for head to non-head to head exposure switch test. If the Plimit > Pmax for all supported technology/band/antenna/DSI in head exposure category, then this test is not required.
 - (b) Similarly, out of all non-head exposure DSIs, select a technology/band/antenna/DSI having the least Plimit (< Pmax), furthermore, having the largest difference between Pmax and Plimit (Plimit < Pmax) should be considered in the selection. Then, select a second DSI in the head exposure category DSI that has the least Plimit among all the head DSIs for the same technology/band/antenna. This technology/band/antenna and selected DSIs are used for nonhead to head to non-head exposure switch test. If the Plimit > Pmax for all supported technology/band/antenna/DSI in non-head exposure category, then this test is not required.
 - If Plimit > Pmax for all supported technology/band/antenna/DSIs for both head and non-head DSI categories, then:
 - select a supported sub6 simultaneous transmission scenario (like LTE + FR1 NSA, or LTE interband ULCA, or FR1 interband NR-DC, etc.) in head DSI that has Plimit < Pmax +10*log(N) for all radios of selected technology(s)/band(s)/antenna(s), where N is the number of active radios in selected sub6 simultaneous transmission scenario.

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Note that the antennas determined for the selected radios of simultaneous transmission scenario should be in the same antenna group if EUT is configured with GEN2_SUB6 or GEN2_SUB6_MMW. Then, select a second DSI in the non-head exposure category that has the lowest Plimit among all the non-head DSIs for all the radios of the selected technology(s)/band(s)/antenna(s) simultaneous transmission scenario. This selected technology(s)/band(s)/antenna(s) and selected DSIs are used for head to non-head to head exposure switch test. If the head DSI has Plimit > Pmax +10*log(N) for all radios supported in sub6 simultaneous transmission scenarios, then this test is not required.

- d) select a supported sub6 simultaneous transmission scenario (like LTE + FR1 NSA, or LTE interband ULCA, or FR1 interband NR-DC, etc.) in non-head DSI that has Plimit < Pmax +10*log(N) for all radios of the selected technology(s)/band(s)/antenna(s), where N is the number of active radios in selected sub6 simultaneous transmission scenario. Note that the antennas determined for the selected radios of simultaneous transmission scenario should be in the same antenna group if EUT is configured with GEN2_SUB6 or GEN2_SUB6_MMW. Then, select a second DSI in the head exposure category that has the lowest Plimit among all the head DSIs for all the radios of the selected technology(s)/band(s)/antenna(s) simultaneous transmission scenario. This selected technology(s)/band(s)/antenna(s) and selected DSIs are used for non-head to head to non-head exposure switch test. If the non-head DSI has Plimit > Pmax +10*log(N) for all radios supported in sub6 simultaneous transmission scenarios, then this test is not required.
- □ Use the highest measured 1g_or_10g SAR at Plimit (Plimit < Pmax) shown in Part 1 report for the selected tech/band/antenna/DSI out of all radio configurations and device positions in Equation (3a), (4a), (5a) and (6a) to calculate time-varying SAR. However, in the case of Plimit > Pmax, the SAR measured in Part 1 report for the corresponding radio configuration selected and tested in Part 2 should be applied in Equation (3a), (4a), (5a) and (6a).
- 2. If the device's intended exposure mode is configured for peak exposure mode operation, then:
 - a) Select a supported sub6 simultaneous transmission scenario (like LTE + FR1 NSA, or LTE interband ULCA, or FR1 interband NR-DC, etc.) in head DSI that has Plimit < Pmax +10*log(N) for all radios of selected technology(s)/band(s)/antenna(s), where N is the number of active radios in selected sub6 simultaneous transmission scenario. Note that the antennas determined for the selected radios of simultaneous transmission scenario should be in the same antenna group if EUT is configured with GEN2_SUB6 or GEN2_SUB6_MMW. Then, select a second DSI in the non-head exposure category that has the lowest Plimit among all the non-head DSIs for all the radios of the selected technology(s)/band(s)/antenna(s) simultaneous transmission scenario. This selected technology(s)/band(s)/antenna(s) and selected DSIs are used for head to non-head to head exposure switch test. If the head DSI has Plimit > Pmax +10*log(N) for all radios supported in sub6 simultaneous transmission scenarios, then this test is not required.
 - b) Select a supported sub6 simultaneous transmission scenario (like LTE + FR1 NSA, or LTE interband ULCA, or FR1 interband NR-DC, etc.) in non-head DSI that has Plimit < Pmax +10*log(N) for all radios of the selected technology(s)/band(s)/antenna(s), where N is the number of active radios in selected sub6 simultaneous transmission scenario. Note that the antennas determined for the selected radios of simultaneous transmission scenario should be in the same antenna group if EUT is configured with GEN2_SUB6 or GEN2_SUB6_MMW. Then, select a second DSI in the head exposure category that has the lowest Plimit among all the head DSIs for all the radios of the selected technology(s)/band(s)/antenna(s) simultaneous transmission scenario. This selected technology(s)/band(s)/antenna(s) and selected DSIs are used for non-head to head to non-head exposure switch test. If the non-head DSI has Plimit >

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Pmax +10*log(N) for all radios supported in sub6 simultaneous transmission scenarios, then this test is not required.

□ Use the highest measured 1g or 10g SAR at Plimit (Plimit < Pmax) shown in Part 1 report for the selected tech/band/antenna/DSI out of all radio configurations and device positions in Equation (3a). (4a), (5a) and (6a) to calculate time-varying SAR. However, in the case of Plimit > Pmax, the SAR measured in Part 1 report for the corresponding radio configuration selected and tested in Part 2 should be applied in Equation (3a), (4a), (5a) and (6a).

4.2.9 **System Level Compliance Continuity**

The purpose of system level compliance test is to demonstrate the compliance continuity in the following scenarios:

- 1. Across technology switch
- During transition from single technology to multi-technology
- 3. In transition when WWAN went from ON to airplane mode
- 4. Active WLAN radio and/or Bluetooth (BT) radio with WWAN in airplane mode
- 5. Time window transition when WWAN in airplane mode

Note: Technology in this section refers to WWAN, WLAN or BT

The selection criteria for radios to be tested is to select a radio which has the largest Pmax/Plimit ratio among all configurations supported (including SISO, MIMO, DBS, SISO+MIMO or DBS+MIMO whichever appropriate) within each technology and within the same antenna group.

If the device supports simultaneous transmission of WWAN, WLAN and BT, then the selection criteria for system level compliance continuity test is:

For a given DSI and antenna group, select band/antenna configurations for WWAN, WLAN and BT technologies that have the largest (Pmax – Plimit) delta. In case of multiple bands/antennas having the same difference between Pmax and Plimit within a given technology, then select any one band/antenna out of them.

NOTE: The antennas corresponding to the selected technologies/bands for the system level compliance continuity test case should be in the same antenna group if EUT is configured with GEN2 SUB6 or GEN2 SUB6 MMW.

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Test Procedures for Conducted Power Measurements

This section provides general conducted power measurement procedures to perform compliance test under dynamic transmission scenarios described in Section 3. In practice, an adjustment can be made in these procedures. The justification/clarification may be provided.

Time-Varying Tx Power Transmission

This test is performed with the two pre-defined test sequences described in Section 4.1 for all the technologies and bands selected in Section 4.2.1. The purpose of the test is to demonstrate the effectiveness of power limiting enforcement and that the time-averaged SAR (corresponding time-averaged Tx power) does not exceed the FCC limit at all times (see Eq. (1a) and (1b)).

Test procedure

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- Measure P_{max} , measure P_{limit} and calculate $P_{reserve}$ (measured P_{limit} in dBm total_min_reserve in dB) and follow Section 4.1 to generate the test sequences for all the technologies and bands selected in Section 4.2.1. Both test sequence 1 and test sequence 2 are created based on measured P_{max} and measured P_{limit} of the DUT. Test condition to measure P_{max} and P_{limit} is:
 - a. Measure P_{max} with Smart Transmit disabled and callbox set to request maximum power.
 - Measure P_{limit} with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- Set DUT to the intended Smart Transmit exposure mode, establish radio link in desired radio configuration, with callbox requesting the DUT's Tx power to be at pre-defined test sequence 1, measure and record Tx power versus time, and then convert the conducted Tx power into 1gSAR or 10gSAR value (see Eq. (1a)) using measured P_{limit} from above Step 1. Perform running time average to determine timeaveraged power and 1gSAR or 10gSAR versus time as illustrated in Figure 4-1 where using 100-seconds time window as an example.

Note: In Eq.(1a), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the measured worst-case 1gSAR or 10gSAR value at Plimit for the corresponding technology/band/antenna/DSI reported in Part 1 report.

Note: For an easier computation of the running time average, 0 dBm can be added at the beginning of the test sequences the length of the responding time window, for example, add 0dBm for 100-seconds so the running time average can be directly performed starting with the first 100-seconds data using excel spreadsheet. This technique applies to all tests performed in this Part 2 report for easier time-averaged computation using excel spreadsheet.

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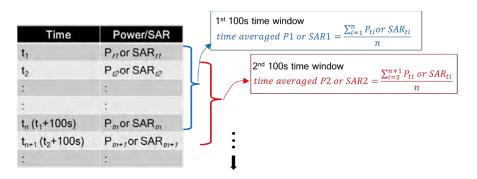


Figure 4-1 **Running Average Illustration**

- 3. Make one plot containing:
 - Instantaneous Tx power versus time measured in Step 2,
 - b. Requested Tx power used in Step 2 (test sequence 1),
 - c. Computed time-averaged power versus time determined in Step 2,
 - d. Time-averaged power limit (corresponding to FCC SAR limit of 1.6 W/kg for 1gSAR or 4.0W/kg for 10gSAR) given by

Time avearged power limit = meas. $P_{limit} + 10 \times log(\frac{FCC SAR \ limit}{meas \ SAR \ Plimit})$ (5a)

where meas. Plimit and meas. SAR_Plimit correspond to measured power at Plimit and measured SAR at Plimit.

- 4. Make another plot containing:
 - a. Computed time-averaged 1gSAR or 10gSAR versus time determined in Step 2
 - b. FCC 1gSAR_{limit} of 1.6W/kg or FCC 10gSAR_{limit} of 4.0W/kg.
- 5. Repeat Steps 2 ~ 4 for pre-defined test sequence 2 and replace the requested Tx power (test sequence 1) in Step 2 with test sequence 2.
- 6. Repeat Steps 2 ~ 5 for all the selected technologies and bands.
- 7. The validation criteria are, at all times, the time-averaged power versus time shown in Step 3 plot shall not exceed the time-averaged power limit (defined in Eq. (5a)), in turn, the time-averaged 1gSAR or 10gSAR versus time shown in Step 4 plot shall not exceed the FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR (i.e., Eq. (1b)).

4.3.2 Change In Call Scenario

This test is to demonstrate that Smart Transmit feature accurately accounts for the past Tx powers during time-averaging when a new call is established.

The call disconnect and re-establishment needs to be performed during power limit enforcement, i.e., when the DUT's Tx power is at Preserve level, to demonstrate the continuity of RF exposure management and limiting in call change scenario. In other words, the RF exposure averaged over any FCC defined

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time window (including the time windows containing the call change) doesn't exceed FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

Test procedure

- 1. Measure Plimit for the technology/band selected in Section 4.2.2. Measure Plimit with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- 2. Set DUT to the intended Smart Transmit exposure mode.
- 3. Establish radio link with callbox in the selected technology/band.
- Request DUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, followed by requesting DUT's Tx power to be at maximum power for about ~60 seconds, and then drop the call for ~10 seconds. Afterwards, re-establish another call in the same radio configuration (i.e., same technology/band/channel) and continue callbox requesting DUT's Tx power to be at maximum power for the remaining time of at least another full duration of the specified time window. Measure and record Tx power versus time. Once the measurement is done, extract instantaneous Tx power versus time, convert the measured conducted Tx power into 1gSAR or 10gSAR value using Eq. (1a), and then perform the running time average to determine time-averaged power and 1gSAR or 10gSAR versus time.
 - NOTE: In Eg.(1a), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the measured worst-case 1gSAR or 10gSAR value at Plimit for the corresponding technology/band/antenna/DSI reported in Part 1 report.
- 5. Make one plot containing: (a) instantaneous Tx power versus time, (b) requested power, (c) computed time-averaged power, (d) time-averaged power limit calculated using Eq.(5a).
- Make another plot containing: (a) computed time-averaged 1gSAR or 10gSAR versus time, and (b) FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

The validation criteria are, at all times, the time-averaged power versus time shall not exceed the timeaveraged power limit (defined in Eq.(5a)), in turn, the time-averaged 1gSAR or 10gSAR versus time shall not exceed the FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR (i.e., Eq. (1b)).

4.3.3 Change In Technology/Band

This test is to demonstrate the correct power control by Smart Transmit during technology switches and/or band handovers.

Similar to the change in call test in Section 4.3.2, to validate the continuity of RF exposure limiting during the transition, the technology and band handover needs to be performed when DUT's Tx power is at Preserve level (i.e., during Tx power enforcement) to make sure that the DUT's Tx power from previous Preserve level to the new Preserve level (corresponding to new technology/band). Since the Plimit could vary with technology and band, Eq. (1a) can be written as follows to convert the instantaneous Tx power in 1gSAR or 10gSAR exposure for the two given radios, respectively:

$$1g_or_10gSAR_1(t) = \frac{conducted_Tx_power_1(t)}{conducted_Tx_power_P_{limit_1}} * 1g_or_10gSAR_P_{limit_1}$$
 (6a)

$$1g_or_10gSAR_2(t) = \frac{conducted_Tx_power_2(t)}{conducted_Tx_power_P_{limit_2}} * 1g_or_10gSAR_P_{limit_2}$$
 (6b)

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$$\frac{1}{T_{SAR}} \left[\int_{t-T_{SAR}}^{t_1} \frac{1g_or_10gSAR_1(t)}{FCC\ SAR\ limit} dt + \int_{t-T_{SAR}}^{t} \frac{1g_or_10gSAR_2(t)}{FCC\ SAR\ limit} dt \right] \leq 1 \tag{6c}$$

where, conducted_Tx_power_1(t), conducted_Tx_power_Pimit_1, and 1g_or_10gSAR_Pimit_1 correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit} , and measured 1gSAR or 10gSAR value at P_{limit} of technology1/band1; conducted_Tx_power_2(t), conducted_Tx_power_P_limit_2(t), and 1g_or_10gSAR_P_limit_2 correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at Plimit, and measured 1gSAR or 10gSAR value at Plimit of technology2/band2. Transition from technology1/band1 to the technology2/band2 happens at time-instant ' t_1 '.

Test procedure

- 1. Measure P_{limit} for both the technologies and bands selected in Section 4.2.3. Measure P_{limit} with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- 2. Set DUT to the intended Smart Transmit exposure mode. Establish radio link with callbox in first technology/band selected. Establish radio link with callbox in first technology/band selected.
- 3. Request DUT's Tx power at 0 dBm for at least one time window specified for the selected technology/band, followed by requesting DUT's Tx power to be at maximum power for about ~60 seconds, and then switch to second technology/band selected. Continue with callbox requesting DUT's Tx power to be at maximum power for the remaining time of at least another full duration of the specified time window. Measure and record Tx power versus time for the full duration of the test.
- 4. Once the measurement is done, extract instantaneous Tx power versus time, and convert the conducted Tx power into 1gSAR or 10gSAR value using Eq. (6a) and (6b) and corresponding measured Plimit values from Step 1 of this section. Perform the running time average to determine time-averaged power and 1gSAR or 10gSAR versus time.
 - NOTE: In Eq.(6a) & (6b), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the measured worst-case 1gSAR or 10gSAR value at Plimit for the corresponding technology/band/antenna/DSI reported in Part 1 report.
- 5. Make one plot containing: (a) instantaneous Tx power versus time, (b) requested power, (c) computed time-averaged power, (d) time-averaged power limit calculated using Eq.(5a).
- Make another plot containing: (a) computed time-averaged 1gSAR or 10gSAR versus time, and (b) FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

The validation criteria are, at all times, the time-averaged 1gSAR or 10gSAR versus time shall not exceed the FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR (i.e., Eq. (6c)).

4.3.4 **Change In Antenna**

This test is to demonstrate the correct power control by Smart Transmit during antenna switches from one antenna to another. The test procedure is identical to Section 4.3.3, by replacing technology/band switch operation with antenna switch. The validation criteria are, at all times, the time-averaged 1gSAR or 10gSAR versus time shall not exceed FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

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NOTE: If the DUT does not support antenna switch within the same technology/band, but has multiple antennas to support different frequency bands, then the antenna switch test is included as part of change in technology and band (Section 4.3.3) test.

4.3.5 Change In DSI

This test is to demonstrate the correct power control by Smart Transmit during DSI switches from one DSI to another. The test procedure is identical to Section 4.3.3, by replacing technology/band switch operation with DSI switch. The validation criteria are, at all times, the time-averaged 1gSAR or 10gSAR versus time shall not exceed FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

4.3.6 Change In Time Window

This test is to demonstrate the correct power control by Smart Transmit during the change in averaging time window when a specific band handover occurs. FCC specifies time-averaging windows of 100s for Tx frequency < 3GHz, and 60s for Tx frequency between 3GHz and 6GHz.

To validate the continuity of RF exposure limiting during the transition, the band handover test needs to be performed when EUT handovers from operation band less than 3GHz to greater than 3GHz and vice versa. The equations (3a) and (3b) in Section 2 can be written as follows for transmission scenario having change in time window,

$$1gSAR_{1}(t) = \frac{conducted_Tx_power_1(t)}{conducted_Tx_power_P_{limit_1}} * 1g_or 10g_SAR_P_{limit_1}$$
 (7a)

$$1gSAR_{2}(t) = \frac{conducted_Tx_power_2(t)}{conducted_Tx_power_P_{limit_2}} * 1g_or 10g_SAR_P_{limit_2}$$
 (7b)

$$\frac{1}{T1_{SAR}} \left[\int_{t-T1_{SAR}}^{t_1} \frac{1g_or\ 10g_SAR_1(t)}{FCC\ SAR\ limit} dt \right] + \frac{1}{T2_{SAR}} \left[\int_{t-T2_{SAR}}^{t} \frac{1g_or\ 10g_SAR_2(t)}{FCC\ SAR\ limit} dt \right] \leq 1 \tag{7c}$$

where, conducted_Tx_power_1(t), conducted_Tx_power_Plimit_1(t), and 1g_ or 10g_SAR_Plimit_1 correspond to the instantaneous Tx power, conducted Tx power at Plimit, and compliance 1g_ or 10g_SAR values at Plimit_1 of band1 with time-averaging window 'T1sAR'; conducted_Tx_power_2(t), conducted_Tx_power_Plimit_2(t), and 1g_ or 10g_SAR_Plimit_2 correspond to the instantaneous Tx power, conducted Tx power at Plimit, and compliance 1g_ or 10g_SAR values at Plimit_2 of band2 with time-averaging window 'T2sAR'. One of the two bands is less than 3GHz, another is greater than 3GHz. Transition from first band with time-averaging window 'T1sAR' to the second band with time-averaging window 'T2sAR' happens at time-instant 't1'.

Test procedure

- 1. Measure P_{limit} for both the technologies and bands selected in Section 4.2.6. Measure P_{limit} with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- 2. Set DUT to the intended Smart Transmit exposure mode.

Transition from 100s time window to 60s time window, and vice versa

- 3. Establish radio link with callbox in the technology/band having 100s time window selected in Section 4.2.6.
- 4. Request EUT's Tx power to be at 0 dBm for at least 100 seconds, followed by requesting EUT's Tx power to be at maximum power for about ~140 seconds, and then switch to second technology/band (having 60s time window) selected in Section 4.2.6. Continue with callbox requesting EUT's Tx power to be at

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- maximum power for about ~60s in this second technology/band, and then switch back to the first technology/band. Continue with callbox requesting EUT's Tx power to be at maximum power for at least another 100s. Measure and record Tx power versus time for the entire duration of the test.
- 5. Once the measurement is done, extract instantaneous Tx power versus time, and convert the conducted Tx power into 1gSAR or 10gSAR value (see Eq. (7a) and (7b)) using corresponding technology/band Step 1 result, and then perform 100s running average to determine time-averaged 1gSAR or 10gSAR versus time. Note that in Eq.(7a) & (7b), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the worst-case 1gSAR or 10gSAR value tested in Part 1 for the selected technologies/bands at P_{limit}.
- 6. Make one plot containing: (a) instantaneous Tx power versus time measured in Step 4.
- 7. Make another plot containing: (a) instantaneous 1gSAR versus time determined in Step 5, (b) computed time-averaged 1gSAR versus time determined in Step 5, and (c) corresponding regulatory 1gSAR_{limit} of 1.6W/kg or 10gSAR_{limit} of 4.0W/kg.

Transition from 60s time window to 100s time window, and vice versa

- 8. Establish radio link with callbox in the technology/band having 60s time window selected in Section 4.2.6.
- 9. Request EUT's Tx power to be at 0 dBm for at least 60 seconds, followed by requesting EUT's Tx power to be at maximum power for about ~80 seconds, and then switch to second technology/band (having 100s time window) selected in Section 4.2.6. Continue with callbox requesting EUT's Tx power to be at maximum power for about ~100s in this second technology/band, and then switch back to the first technology/band. Continue with callbox requesting EUT's Tx power to be at maximum power for the remaining time for a total test time of 500 seconds. Measure and record Tx power versus time for the entire duration of the test.
- 10. Repeat above Step 5~7 to generate the plots

The validation criteria is, at all times, the time-averaged 1gSAR or 10gSAR versus time shall not exceed the regulatory 1gSAR_{limit} of 1.6W/kg or 10gSAR_{limit} of 4.0W/kg.

4.3.7 SAR Exposure Switching

This test is to demonstrate that Smart Transmit feature is accurately accounts for switching in exposures among SAR from radio1 only, SAR from both radio1 and radio2, and SAR from radio2 only scenarios, and ensures total time-averaged RF exposure complies with the FCC limit. Here, radio1 represents primary radio (for example, LTE anchor in a NR non-standalone mode call) and radio2 represents secondary radio (for example, sub6 NR or mmW NR). The detailed test procedure for SAR exposure switching in the case of LTE+Sub6 NR non-standalone mode transmission scenario is provided in APPENDIX F.

Test procedure:

- 1. Measure conducted Tx power corresponding to P_{limit} for radio1 and radio2 in selected band. Test condition to measure conducted P_{limit} is:
 - □ Establish device in call with the callbox for radio1 technology/band. Measure conducted Tx power corresponding to radio1 *P*_{limit} with Smart Transmit peak exposure mode <u>enabled</u>, and callbox set to request maximum power.

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- □ Repeat above step to measure conducted Tx power corresponding to radio2 P_{limit}. If radio2 is dependent on radio1 (for example, non-standalone mode of Sub6 NR requiring radio1 LTE as anchor), then establish radio1 + radio2 call with callbox, and request all down bits for radio1 LTE. In this scenario, with callbox requesting maximum power from radio2 Sub6 NR, measured conducted Tx power corresponds to radio2 Plimit (as radio1 LTE is at all-down bits)
- Set DUT to the intended Smart Transmit exposure mode, with EUT setup for radio1 + radio2 call. In this description, it is assumed that radio2 has lower priority than radio1. Establish device in radio1+radio2 call, and request all-down bits or low power on radio1, with callbox requesting EUT's Tx power to be at maximum power in radio2 for at least one time window. After one time window, set callbox to request EUT's Tx power to be at maximum power on radio1, i.e., all-up bits. Continue radio1+radio2 call with both radios at maximum power for at least one time window, and drop (or request all-down bits on) radio2. Continue radio1 at maximum power for at least one time window. Record the conducted Tx power for both radio1 and radio2 for the entire duration of this test.
- 3. Once the measurement is done, extract instantaneous Tx power versus time for both radio1 and radio2 links. Convert the conducted Tx power for both these radios into 1gSAR or 10gSAR value (see Eq. (6a) and (6b)) using corresponding technology/band Plimit measured in Step 1, and then perform the running time average to determine time-averaged 1gSAR or 10gSAR versus time.
- 4. Make one plot containing: (a) instantaneous Tx power versus time measured in Step 2.
- Make another plot containing: (a) instantaneous 1gSAR versus time determined in Step 3, (b) computed time-averaged 1qSAR versus time determined in Step 3, and (c) corresponding regulatory 1gSAR_{limit} of 1.6W/kg or 10gSAR_{limit} of 4.0W/kg.

The validation criteria is, at all times, the time-averaged 1gSAR or 10gSAR versus time shall not exceed the regulatory 1gSAR_{limit} of 1.6W/kg or 10gSAR_{limit} of 4.0W/kg.

NOTE: If multi_Tx_factor is set to > 1.0 with EFS version 19 (or higher), then in single Tx transmission scenarios, Smart Transmit ensures time-averaged RF exposure is ≤ (SAR_design_target * 10^{(+ sub6 device} uncertainty/10)) < regulatory RF exposure limit for sub6 radio managed by Smart Transmit. In simultaneous Tx transmission scenarios, Smart Transmit ensures time-averaged RF exposure is ≤ (SAR design target* multi Tx factor * 10^(+ sub6 device uncertainty/10)) < regulatory RF exposure limit for sub6 radios managed by Smart Transmit. These simultaneous transmission scenarios are listed below:

- 2-or-more radio scenarios within WWAN like EN-DC, LTE ULCA, etc.
- 2-or-more-radio across technologies such as WWAN+WLAN, WWAN+BT, WLAN+BT and WWAN+WLAN+BT transmission scenarios (if WLAN/BT radios are also managed by Smart Transmit).

4.3.8 **Exposure Category Switch**

This test is performed with the EUT being requested to transmit at maximum power in selected technology/band/antenna/DSI. The change in exposure category is preferrably performed during Tx power enforcement (i.e., EUT forced to transmit at a sustainable level). One test is sufficient as this feature operation is independent of technology, band and antenna. Test procedure are:

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In case of head to non-head to head exposure switch test, 'first DSI' in below test procedure refers to head DSI and 'second DSI' refers to non-head DSI. Similarly, in case of non-head to head to non-head exposure switch test, 'first DSI' in below test procedure refers to non-head DSI and 'second DSI' refers to head DSI.

- Measure Plimit for all the technology(s)/band(s)/antenna(s)/DSI(s) selected following the above selection criteria. Measure Plimit with Smart Transmit Peak exposure mode enabled and callbox set to request maximum power.
- 2. Set EUT to intended Smart Transmit exposure mode.
- 3. Establish radio link with first DSI and with callbox in the selected technology(s)/band(s)/antenna(s).
- 4. Request EUT to transmit at 0 dBm for at least 100 seconds, followed by requesting EUT to transmit at maximum Tx power for the active radio(s) for half of the regulatory time window, and then switch to the second DSI for ~10s, and switch back to the first DSI for at least one time window. Throughout this test, when switching between DSIs (i.e., switching between exposure categories), continue with callbox requesting EUT to transmit at maximum Tx power for the active radio(s). Measure and record Tx power versus time for the entire duration of the test.
- 5. Once the measurement is done, extract instantaneous Tx power versus time, and convert the conducted Tx power into 1g_or_10gSAR value (see Eq. (7a) and (7b)) using the corresponding *Plimit* measured in Step 1 and 1g_or_10gSAR value measured in 80-W2112-4 Part 1 report, and then perform 100s running average to determine time-averaged 1g_or_10gSAR versus time as illustrated in Figure 5-1. Note that in Eq.(7a) & (7b), instantaneous Tx power is converted into instantaneous 1g_or_10gSAR value by applying the worst-case 1gSAR value for the selected technologies/bands at *Plimit* as reported in 80- W2112-4 Part 1 report.
- 6. Make one plot containing: (a) computed time-averaged normalized 1g_or_10gSAR of the selected technology(s)/band(s)/antenna(s) versus time determined in Step 5 for exposure under first DSI, (b) total time-averaged normalized exposure for exposure under first DSI if simultaneous transmission scenario was tested, and (c) normalized regulatory limit of 1.0.
- 7. Make another plot containing: (a) computed time-averaged 1g_or_10gSAR of the selected technology(s)/band(s)/antenna(s) versus time determined in Step 5 for exposure under second DSI, (b) total time-averaged normalized exposure for exposure under second DSI if simultaneous transmission scenario was tested, and (c) normalized regulatory limit of 1.0.

The validation criteria is, at all times, the time-averaged normalized exposure versus time shall not exceed the normalized limit of 1.0 for both first & second DSIs (i.e., both head exposure category and non-head exposure category).

4.3.9 System Level Compliance Continuity

Below is the test flow outline of the system level compliance test. The test contains 6 sections and 5 transitions: Start with WWAN radio transmission (Section A), transition to WLAN transmission (Section B), transition to simultaneous transmission of WWAN + WLAN + BT (Section C), then drop off WWAN radio and set WWAN to airplane mode, at the same time transition to WLAN+BT transmission simultaneously (Section D), transition to BT only transmission (Section E), transition to WLAN only transmission (Section F), and finally transition to simultaneous transmission of WWAN + WLAN + BT (Section G).

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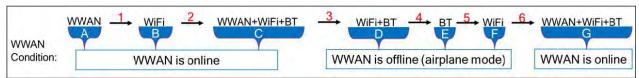


Figure 4-2 Schematic of technology transitions for system level compliance continuity test

- Measure conducted Tx power corresponding to Plimit for all three (WWAN, WLAN & BT) technologies in the selected radio configurations. Test condition to measure conducted *Plimit* for each technology is:
 - □ Establish device in call with the callbox for the first technology in desired band. Measure conducted Tx power corresponding to the first technology Plimit with Smart Transmit Peak exposure mode enabled and callbox set to request maximum power (or maximum duty cycle in case of WLAN/BT).
 - Repeat above step to measure conducted Tx power corresponding to the remaining two technologies' Plimit. In the case of BT, measured conducted Tx power is compensated by tested duty cycle and BT_STANDALONE EFS parameter, i.e., measured Plimit = conducted power measured in BT standalone condition / BT STANDALONE / BT duty cycle.
- 2. Set EUT to the intended Smart Transmit exposure mode.
- 3. As depicted in Figure 4-2, first
- Section A: Establish WWAN connection with the callbox in selected WWAN radio configuration. Request EUT to transmit at 0 dBm for at least one WWAN time window (100s or 60s), followed by requesting EUT to transmit at maximum Tx power for $\{\text{one WWAN time window } (TWWAN = 100s \text{ if } f\}$ < 3GHz or 60s if 3GHz < f < 6GHz for FCC, 360s for ICNIRP) + the maximum high power duration allowed in one TWWAN, denoted as TA WWAN.
- ii. Section B: After TA WWAN, drop WWAN connection and establish WLAN connection with the callbox in selected WLAN radio configuration and request EUT to transmit at maximum duty cycle (and maximum power) for {one WLAN time-window duration (TWLAN = 30s for all WLAN frequency bands for FCC, 360s for ICNIRP) + the maximum high power duration allowed in one TWLAN, denoted TB WLAN.
- iii. Section C: After TB WLAN, add the selected WWAN and BT radios to have the simultaneous transmission of WWAN + WLAN + BT. Request WWAN radio to transmit at maximum power and request WLAN & BT radios to transmit at maximum duty cycle (and maximum power) for at least one max{TA_WWAN, TB_WLAN, TBT}, where, TBT = 100s for FCC, 360s for ICNIRP.
- iv. Section D: Drop WWAN connection and set WWAN modem into airplane mode. Continue requesting WLAN & BT radios to transmit at maximum duty cycle (and maximum power) for at least two times the max{ TWLAN, TBT}.
- V. Section E: Drop WLAN connection. Continue requesting BT radio to transmit at maximum duty cycle (and maximum power). Continue the test for at least one TBT.
- vi. Section F: In the case of FCC time windows, after at least one TBT, drop BT connection and establish back WLAN connection in selected radio configuration. Continue requesting WLAN radio to transmit

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- at maximum duty cycle (and maximum power). Continue the test for at least one max { TWLAN, TBT}. In the case of ICNIRP time windows, Section F is not required.
- vii. Section G: Disable airplane mode and add WWAN and BT connections after Section F in the case of FCC time windows (Disable airplane mode and add WWAN and WLAN connections after Section E in the case of ICNIRP time windows) to have the simultaneous transmission of WWAN + WLAN + BT. Request WWAN radio to transmit at maximum power and request WLAN & BT radios to transmit at maximum duty cycle (and maximum power) for at least one max{TA WWAN, TB WLAN, TBT}, where, TBT = 100s for FCC, 360s for ICNIRP.
- Once the measurement is done, extract instantaneous Tx power versus time for all WWAN, WLAN and BT radios in selected configurations. Similar to technology/band switch test in Section 4.3.3, convert the conducted Tx power for both these radios into 1g_or_10gSAR value (see Eq. (7a) and (7b)) using corresponding technology/band Plimit measured in Step 1, and then perform running average over corresponding time-windows (i.e., 100s/60s for WWAN radio, 30s for WLAN radio and 100s for BT radio in case of FCC time-windows, and 360s for all of them in case of ICNIRP time-windows) to determine time-averaged 1g or 10gSAR versus time as illustrated in Figure 4-1.
- 5. Make one plot containing: (a) computed normalized time-averaged 1g_or_10gSAR for WWAN radio configuration versus time determined in Step 4, (b) computed normalized time- averaged 1g or 10gSAR for WLAN radio configuration versus time determined in Step 4, (c) computed normalized time-averaged 1g or 10gSAR for WLAN radio configuration versus time determined in Step 4, (d) computed total normalized time-averaged 1g or 10gSAR versus time (sum of Steps (5.a), (5.b) and (5.c)) determined in Step 4, and (e) corresponding normalized regulatory 1g_or_10gSARlimit limit of 1.0.

The validation criteria is, at all times, the time-averaged 1g or 10gSAR versus time shall not exceed the regulatory 1g or 10gSARlimit limit.

NOTE: If multi_Tx_factor is set to > 1.0 with EFS version 19 (or higher), then in single Tx transmission scenarios, Smart Transmit ensures time-averaged RF exposure is ≤ (SAR design target * 10(+ sub6 device uncertainty/10)) < regulatory RF exposure limit for sub6 radio managed by Smart Transmit. In simultaneous Tx transmission scenarios. Smart Transmit ensures time-averaged RF exposure is ≤ (SAR design target * multi Tx factor * 10^(+ sub6 device uncertainty/10)) < regulatory RF exposure limit for sub6 radios managed by Smart Transmit. These simultaneous transmission scenarios are listed below:

- 2-or-more radio scenarios within WWAN like EN-DC, LTE ULCA, etc.
- 2-or-more-radio across technologies such as WWAN+WLAN, WWAN+BT, WLAN+BT and WWAN+WLAN+BT transmission scenarios (if WLAN/BT radios are also managed by Smart Transmit).

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5 FCC MEASUREMENT PROCEDURES (FREQ > 6 GHZ)

This section provides the test plan and test procedures for validating Qualcomm Smart Transmit feature for mmW transmission. For this EUT, millimeter wave (mmW) transmission is only in non-standalone mode, i.e., it requires an LTE link as anchor.

5.1 Test Sequence for Validation In mmW NR Transmission

In 5G mmW NR transmission, the test sequence for validation is with the callbox requesting EUT's Tx power in 5G mmW NR at maximum power all the time.

5.2 Test configuration selection criteria for validating Smart Transmit feature

Time-Varying Tx Power Transmission

The Smart Transmit time averaging operation is independent of bands, modes, channels, and antenna configurations (beams) for a given technology. Hence, validation of Smart Transmit in any one band/mode/channel per technology is sufficient. Two mmW bands are proposed and selected for this testing to provide high confidence in this validation (Note, the EUT used in this report is only supported in one mmW band).

The selection criteria for this measurement is to test EUT transmit in a beam containing highest number of elements (as it has lower input.power.limit). Additionally, for EUT enabled with Smart Transmit EFS version 18 (or higher) utilizing DSI applicability feature (see Section 10.1), since this test is performed in non-standalone (NSA) mode with a sub6 anchor, perform this test in a DSI that has DSI PD ratio < 1 (see equation 9b in Section 12.1) in the EFS for the selected beam.

5.2.2 Change In Antenna Configuration (Beam)

The Smart Transmit time averaging feature operation is independent of bands, modes, channels, and antenna configurations (beams) for a given technology. Hence, validation of Smart Transmit with beam switch between any two beams is sufficient.

NOTE: The selected two beams should be in the same module group if EUT is configured with GEN2 MMW or GEN2 SUB6 MMW.

5.2.3 SAR Vs. PD Exposure Switch During Transmission

The Smart Transmit time averaging feature operation is independent of the nature of exposure (SAR vs. PD) and ensures total time-averaged RF exposure compliance. Hence, validation of Smart Transmit in any one band/mode/channel/beam for mmW + sub-6 (LTE) transmission is sufficient, where the exposure varies among SAR dominant scenario, SAR+PD scenario, and PD only scenarios.

The selection criteria for this measurement is to test EUT transmit in a beam containing highest number of elements (as it has lower input.power.limit).

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5.3 Test Procedures for mmW Radiated Power Measurements

Perform conducted power measurement (for f < 6GHz) and radiated power measurement (for f > 6GHz) for LTE + mmW transmission to validate Smart Transmit time averaging feature in the various transmission scenarios described in Section 3.

This section provides general conducted power measurement procedures to perform compliance test under dynamic transmission scenarios described in Section 3. In practice, an adjustment can be made in these procedures. The justification/clarification may be provided.

5.3.1 Time-Varying Tx Power Transmission

The purpose of the test is to demonstrate the effectiveness of power limiting enforcement and that the time-averaged Tx power when converted into RF exposure values does not exceed the FCC limit at all times (see Eq. (2a), (2b) & (2c) in Section 3).

Test procedure:

- 1. Measure conducted Tx power corresponding to P_{limit} for LTE in selected band, and measure radiated Tx power corresponding to input.power.limit in desired mmW band/channel/beam by following below steps:
 - a. Measure radiated power corresponding to mmW input.power.limit by setting up the EUT's Tx power in desired band/channel/beam at input.power.limit in Factory Test Mode (FTM). This test is performed in a calibrated anechoic chamber. Rotate the EUT to obtain maximum radiated Tx power, keep the EUT in this position and do not disturb the position of the EUT inside the anechoic chamber for the rest of this test.
 - b. Reset EUT to place in online mode and establish radio link in LTE, measure conducted Tx power corresponding to LTE P_{limit} with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- Set DUT to the intended Smart Transmit exposure mode. With DUT setup for a mmW NR call in the desired/selected LTE band and mmW NR band, perform the following steps:
 - Establish LTE and mmW NR connection in desired band/channel/beam used in Step 1. As soon as the mmW connection is established, immediately request all-down bits on LTE link. With callbox requesting EUT's Tx power to be at maximum mmW power to test predominantly PD exposure scenario (as SAR exposure is less when LTE's Tx power is at low power).
 - b. After 120s, request LTE to go all-up bits for at least 100s. SAR exposure is dominant. There are two scenarios:
 - If $P_{limit} < P_{max}$ for LTE, then the RF exposure margin (provided to mmW NR) gradually runs out (due to high SAR exposure). This results in gradual reduction in the 5G mmW NR transmission power and eventually seized 5G mmW NR transmission when LTE goes to Preserve level.
 - If $P_{limit} \ge P_{max}$ for LTE, then the 5G mmW NR transmission's averaged power should gradually reduce but the mmW NR connection can sustain all the time (assuming TxAGC uncertainty = 0dB).
 - Record the conducted Tx power of LTE and radiated Tx power of mmW for the full duration of this test of at least 300s.

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- 3. Once the measurement is done, extract instantaneous Tx power versus time for both LTE and mmW links. Convert the conducted Tx power for LTE into 1gSAR or 10gSAR value using Eq. (2a) and Plimit measured in Step 1.b, and then divide by FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR to obtain instantaneous normalized 1gSAR or 10gSAR versus time. Perform 100s running average to determine normalized 100s-averaged 1gSAR or 10gSAR versus time.
 - NOTE: In Eq.(2a), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the measured worst-case 1gSAR or 10gSAR value at *P_{limit}* for the corresponding technology/band/antenna/DSI reported in Part 1 report.
- 4. Similarly, convert the radiated Tx power for mmW into 4cm²PD value using Eq. (2b) and the radiated Tx power limit (i.e., radiated Tx power at *input.power.limit*) measured in Step 1.a, then divide by FCC 4cm²PD limit of 10W/m² to obtain instantaneous normalized 4cm²PD versus time. Perform 4s running average to determine normalized 4s-averaged 4cm²PD versus time.
 - NOTE: In Eq.(2b), instantaneous radiated Tx power is converted into instantaneous 4cm²PD by applying the worst-case 4cm²PD value measured at *input.power.limit* for the selected band/beam in Part 1 report.
- 5. Make one plot containing: (a) instantaneous conducted Tx power for LTE versus time, (b) computed 100s-averaged conducted Tx power for LTE versus time, (c) instantaneous radiated Tx power for mmW versus time, as measured in Step 2, (d) computed 4s-averaged radiated Tx power for mmW versus time, and (e) time-averaged conducted and radiated power limits for LTE and mmW radio using Eq. (5a) & (5b), respectively:

Time avearged LTE power limit = meas.
$$P_{limit} + 10 \times \log(\frac{FCC SAR limit}{meas.SAR Plimit})$$
 (5a)

Time avearged mmW NR power limit = meas.
$$EIRP_{input.power.limit} + 10 \times \log(\frac{FCC\ PD\ limit}{meas.PD_input.power.limit})$$
 (5b)

- where *meas*. *EIRP*_{input.power.limit} and *meas*. *PD_input.power.limit* correspond to measured EIRP at input.power.limit and measured power density at input.power.limit.
- 6. Make another plot containing: (a) computed normalized 100s-averaged 1gSAR or 10gSAR versus time determined in Step 3, (b) computed normalized 4s-averaged 4cm²PD versus time determined in Step 4, and (c) corresponding total normalized time-averaged RF exposure (sum of steps (6.a) and (6.b)) versus time.

The validation criteria are, at all times, the total normalized time-averaged RF exposure versus time determined in Step 6.c shall not exceed the normalized limit of 1.0 of FCC requirement (i.e., Eq. (2c)).

5.3.2 Switch In SAR Vs. PD Exposure During Transmission

This test is to demonstrate that Smart Transmit feature is independent of the nature of exposure (SAR vs. PD), accurately accounts for switching in exposures among SAR dominant, SAR+PD, and PD dominant scenarios, and ensures total time-averaged RF exposure compliance.

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Test procedure:

- Measure conducted Tx power corresponding to Plimit for LTE in selected band, and measure radiated Tx power corresponding to input.power.limit in desired mmW band/channel/beam by following below steps:
 - Measure radiated power corresponding to input.power.limit by setting up the EUT's Tx power a. in desired band/channel/beam at input.power.limit in FTM. This test is performed in a calibrated anechoic chamber. Rotate the EUT to obtain maximum radiated Tx power, keep the EUT in this position and do not disturb the position of the EUT inside the anechoic chamber for the rest of this test.
 - Reset EUT to place in online mode and establish radio link in LTE, measure conducted Tx power corresponding to LTE Plimit with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- Set DUT to the intended Smart Transmit exposure mode. With DUT setup for LTE + mmW call, perform the following steps:
 - a. Establish LTE (sub-6) and mmW NR connection with callbox.
 - As soon as the mmW connection is established, immediately request all-down bits on LTE link. Continue LTE (all-down bits) + mmW transmission for more than 100s duration to test predominantly PD exposure scenario (as SAR exposure is negligible from all-down bits in LTE).
 - After 120s, request LTE to go all-up bits, mmW transmission should gradually run out of RF exposure margin if LTE's $P_{limit} < P_{max}$ and seize mmW transmission (SAR only scenario); or mmW transmission should gradually reduce in Tx power and will sustain the connection if LTE's $P_{limit} > P_{max}$.
 - d. After 75s, request LTE to go all-down bits, mmW transmission should start getting back RF exposure margin and resume transmission again.
 - Record the conducted Tx power of LTE and radiated Tx power of mmW for the entire duration of this test of at least 300s.
- Once the measurement is done, extract instantaneous Tx power versus time for both LTE and mmW links. Convert the conducted Tx power for LTE into 1gSAR or 10gSAR value using Eq. (2a) and P_{limit} measured in Step 1.b, and then divide by FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR to obtain instantaneous normalized 1gSAR or 10gSAR versus time. Perform 100s running average to determine normalized 100s-averaged 1gSAR or 10gSAR versus time.
 - NOTE: In Eq.(2a), instantaneous Tx power is converted into instantaneous 1gSAR or 10gSAR value by applying the measured worst-case 1qSAR or 10qSAR value at P_{limit} for the corresponding technology/band/antenna/DSI reported in Part 1 report.
- 4. Similarly, convert the radiated Tx power for mmW into 4cm²PD value using Eq. (2b) and the radiated Tx power limit (i.e., radiated Tx power at *input.power.limit*) measured in Step 1.a, then divide this by FCC 4cm²PD limit of 10W/m² to obtain instantaneous normalized 4cm²PD versus time. Perform 4s running average to determine normalized 4s-averaged 4cm²PD versus time.

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NOTE: In Eq.(2b), instantaneous radiated Tx power is converted into instantaneous 4cm²PD by applying the worst-case 4cm²PD value measured at input.power.limit for the selected band/beam in Part 1 report.

- 5. Make one plot containing: (a) instantaneous conducted Tx power for LTE versus time, (b) computed 100s-averaged conducted Tx power for LTE versus time. (c) instantaneous radiated Tx power for mmW versus time, as measured in Step 2, (d) computed 4s-averaged radiated Tx power for mmW versus time, and (e) time-averaged conducted and radiated power limits for LTE and mmW radio using Eq. (5a) & (5b), respectively.
- 6. Make another plot containing: (a) computed normalized 100s-averaged 1gSAR or 10gSAR versus time determined in Step 3, (b) computed normalized 4s-averaged 4cm²PD versus time determined in Step 4, and (c) corresponding total normalized time-averaged RF exposure (sum of steps (6.a) and (6.b)) versus time.

The validation criteria are, at all times, the total normalized time-averaged RF exposure versus time determined in Step 6.c shall not exceed the normalized limit of 1.0 of FCC requirement (i.e., Eq. (2c)).

5.3.3 Change In Antenna Configuration (Beam)

This test is to demonstrate the correct power control by Smart Transmit during changes in antenna configuration (beam). Since the input.power.limit varies with beam, the Eq. (2a), (2b) and (2c) in Section 3 are written as below for transmission scenario having change in beam,

$$1g_or_10gSAR(t) = \frac{conducted_Tx_power(t)}{conducted_Tx_power_P_{limit}} * 1g_or_10gSAR_P_{limit}$$
 (8a)

$$4cm^{2}PD_{1}(t) = \frac{radiated_Tx_power_1(t)}{radiated_Tx_power_input.power.limit_1} * 4cm^{2}PD_input.power.limit_1$$
(8b)

$$4cm^{2}PD_{2}(t) = \frac{radiated_Tx_power_2(t)}{radiated_Tx_power_input.power.limit_2} * 4cm^{2}PD_input.power.limit_2$$
 (8c)

$$\frac{\frac{1}{T_{SAR}}\int_{t-T_{SAR}}^{t} 1g_or_10gSAR(t)dt}{FCC\ SAR\ limit} + \frac{\frac{1}{T_{PD}}\left[\int_{t-T_{PD}}^{t_{1}} 4cm^{2}\text{PD}_{1}(t)dt + \int_{t1}^{t} 4cm^{2}\text{PD}_{2}(t)dt\right]}{FCC4cm^{2}\ PD\ limit} \leq 1 \tag{8d}$$

where, $conducted_Tx_power(t)$, $conducted_Tx_power_P_{limit}$, and $1g_or_10gSAR_P_{limit}$ correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at Plimit, and measured 1gSAR or 10gSAR values at Plimit corresponding to LTE transmission. Similarly, radiated_Tx_power_1(t), radiated Tx power input.power.limit 1, and 4cm²PD input.power.limit 1 correspond to the measured instantaneous radiated Tx power, radiated Tx power at input.power.limit, and 4cm2PD value at input.power.limit of beam 1; radiated_Tx_power_2(t), radiated_Tx_power_input.power.limit_2, and 4cm²PD_input.power.limit_2 correspond to the measured instantaneous radiated Tx power, radiated Tx power at input.power.limit, and 4cm²PD value at input.power.limit of beam 2 corresponding to mmW transmission.

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Test procedure:

- Measure conducted Tx power corresponding to Plimit for LTE in selected band, and measure radiated Tx power corresponding to input.power.limit in desired mmW band/channel/beam by following below steps:
 - Measure radiated power corresponding to mmW input.power.limit by setting up the EUT's Tx power in desired band/channel at input.power.limit of beam 1 in FTM. Do not disturb the position of the EUT inside the anechoic chamber for the rest of this test. Repeat this Step 1.a for beam 2.
 - b. Reset EUT to place in online mode and establish radio link in LTE, measure conducted Tx power corresponding to LTE Plimit with Smart Transmit peak exposure mode enabled, and callbox set to request maximum power.
- Set DUT to the intended Smart Transmit exposure mode. With DUT setup for LTE + mmW connection, perform the following steps:
 - a. Establish LTE (sub-6) and mmW NR connection in beam 1. As soon as the mmW connection is established, immediately request all-down bits on LTE link with the callbox requesting EUT's Tx power to be at maximum mmW power.
 - b. After beam 1 continues transmission for at least 20s, request the EUT to change from beam 1 to beam 2, and continue transmitting with beam 2 for at least 20s.
 - Record the conducted Tx power of LTE and radiated Tx power of mmW for the entire duration of this test.
- Once the measurement is done, extract instantaneous Tx power versus time for both LTE and mmW links. Convert the conducted Tx power for LTE into 1gSAR or 10gSAR value using the similar approach described in Step 3 of Section 5.3.2. Perform 100s running average to determine normalized 100s-averaged 1gSAR versus time.
- 4. Similarly, convert the radiated Tx power for mmW NR into 4cm²PD value using Eq. (8b), (8c) and the radiated Tx power limits (i.e., radiated Tx power at input.power.limit) measured in Step 1.a for beam 1 and beam 2, respectively, and then divide the resulted PD values by FCC 4cm²PD limit of 10W/m² to obtain instantaneous normalized 4cm²PD versus time for beam 1 and beam 2. Perform 4s running average to determine normalized 4s-averaged 4cm²PD versus time.
 - NOTE: In Eq.(8b) and (8c), instantaneous radiated Tx power of beam 1 and beam 2 is converted into instantaneous 4cm²PD by applying the worst-case 4cm²PD value measured at the input.power.limit of beam 1 and beam 2 in Part 1 report, respectively.
- 5. Since the measured radiated powers for beam 1 and beam 2 in Step 1.a were performed at an arbitrary rotation of EUT in anechoic chamber, repeat Step 1.a of this procedure by rotating the EUT to determine maximum radiated power at input.power.limit in FTM mode for both beams separately. Re-scale the measured instantaneous radiated power in Step 2.c by the delta in radiated power measured in Step 5 and the radiated power measured in Step 1.a for plotting purposes in next Step. In other words, this step essentially converts measured instantaneous radiated power during the measurement in Step 2 into maximum instantaneous radiated power for both beams. Perform 4s running average to compute 4s-averaged radiated Tx power. Additionally, use these EIRP values measured at input.power.limit at respective peak locations to determine the EIRP limits (using Eq. (5b)) for both these beams.

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- 6. Make one plot containing: (a) instantaneous conducted Tx power for LTE versus time, (b) computed 100s-averaged conducted Tx power for LTE versus time, (c) instantaneous radiated Tx power for mmW versus time, as obtained in Step 5, (d) computed 4s-averaged radiated Tx power for mmW versus time, as obtained in Step 5, and (e) time-averaged conducted and radiated power limits for LTE and mmW radio, respectively.
- 7. Make another plot containing: (a) computed normalized 100s-averaged 1gSAR versus time determined in Step 3, (b) computed normalized 4s-averaged 4cm²PD versus time determined in Step 4, and (c) corresponding total normalized time-averaged RF exposure (sum of steps (6.a) and (6.b)) versus time.

The validation criteria are, at all times, the total normalized time-averaged RF exposure versus time determined in Step 6.c shall not exceed the normalized limit of 1.0 of FCC requirement (i.e., (8d)).

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6 MEASUREMENT TEST SETUP (FREQ < 6 GHZ)

Conducted Measurement Test setup 6.1

Legacy test setup

The Rohde & Schwarz CMW500 callbox was used in this test. The test setup schematic is shown in Figure 6-1a (Appendix B – Test Setup Photo 1, 2, and 3) for measurements with a single antenna of DUT, and in Figure 6-1b (Appendix B – Test Setup Photo 5) for measurements involving antenna switch. For single antenna measurement, one port (RF1 COM) of the callbox is connected to the RF port of the DUT using a directional coupler. For technology/band switch measurement, one port (RF1 COM) of the callbox used for signaling two different technologies is connected to a combiner, which is in turn connected to a directional coupler. The other end of the directional coupler is connected to a splitter to connect to two RF ports of the DUT corresponding to the two antennas of interest. In the setups, power meter is used to tap the directional coupler for measuring the conducted output power of the DUT. For all legacy conducted tests, only RF1 COM port of the callbox is used to communicate with the DUT.

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter

Sub6 NR test setup:

The Anritsu MT8000A callbox was used in this test. The test setup schematic is the same as the Legacy Test Setup shown in Figure 6-1a (Appendix B – Test Setup Photo 4). One port of the callbox is connected to the RF port of the DUT using a directional coupler. In the setup, the power meter is used to tap the directional coupler for measuring the conducted output power of the DUT.

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

LTE+Sub6 NR test setup:

LTE conducted port and Sub6 NR conducted port are different on this DUT, therefore, the LTE and Sub6 NR signals for power meter measurement are performed on separate paths as shown below in Figure 6-1c (Also UXM was used in this setup). (Appendix B – Test Setup Photo 6).

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

WLAN SISO test setup:

The Rohde & Schwarz CMW500 callbox was used in this test. The test setup schematic is shown in Figure 6-1d (Appendix B – Test Setup Photo 7).

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

WLAN DBS test setup:

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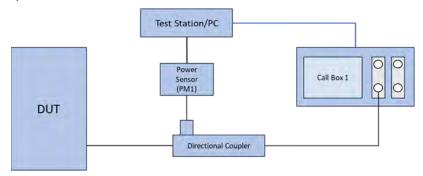
The Rohde & Schwarz CMW500 callbox was used in this test. WLAN 2.4GHz port and WLAN 5GHz conducted port are the same on this DUT, therefore, the WLAN signals for power meter measurement are performed on separate paths as shown below in Figure 6-1e (Appendix B – Test Setup Photo 8).

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.

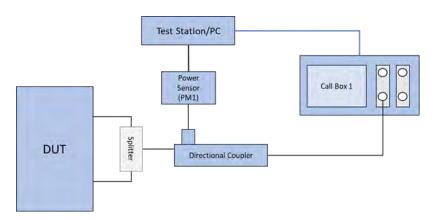
System continuity test setup:

The Rohde & Schwarz CMW500 callbox was used in this test. WWAN conducted port and BT conducted port are the same on this DUT, while the WLAN conducted port is separate. Therefore the WWAN, WLAN, and BT signals for power meter measurement are performed on paths shown below in Figure 6-1f (Appendix B – Test Setup Photo 9).

All the path losses from RF port of DUT to the callbox RF COM port and to the power meter are calibrated and automatically entered as offsets in the callbox and the power meter via test scripts on the PC used to control callbox and power meter.



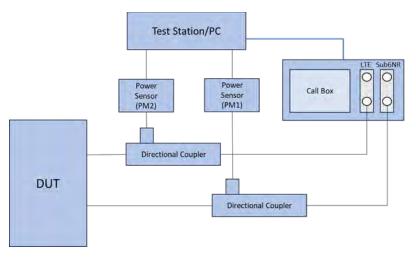
(a) Appendix B - Test Setup Photo 1, 2, 3, 4



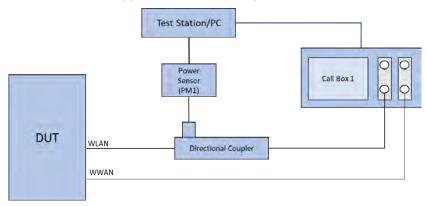
(b) Appendix B - Test Setup Photo 5

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(c) Appendix B – Test Setup Photo 6

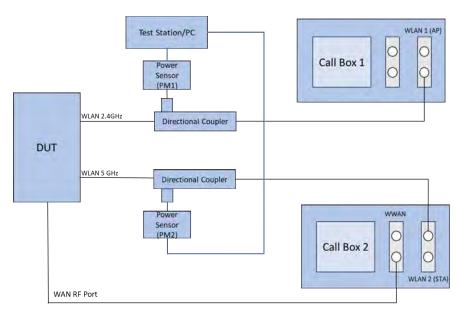


(d) Appendix B – Test Setup Photo 7

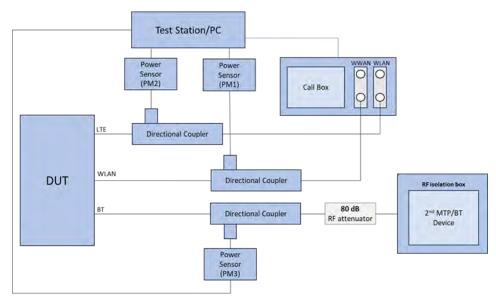
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(e) Appendix B - Test Setup Photo 8



(f) Appendix B - Test Setup Photo 9 Figure 6-1 Conducted power measurement setup

Both the callbox and power meter are connected to the PC using GPIB cables. Two test scripts are custom made for automation, and the test duration set in the test scripts is 500 seconds.

For time-varying Tx power measurement, the PC runs the 1st test script to send GPIB commands to control the callbox's requested power versus time, while at the same time to

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record the conducted power measured at DUT RF port using the power meter. The commands sent to the callbox to request power are:

- 0dBm for 100 seconds
- test sequence 1 or test sequence 2 (defined in Section 4.1 and generated in Section 4.2.1), for 360 seconds.
- stay at the last power level of test sequence 1 or test sequence 2 for the remaining time.

Power meter readings are periodically recorded every 100ms. A running average of this measured Tx power over 100 seconds is performed in the post-data processing to determine the 100s-time averaged power.

For call drop, technology/band/antenna switch, and DSI switch tests, after the call is established, the callbox is set to request the DUT's Tx power at 0dBm for 100 seconds while simultaneously starting the 2nd test script runs at the same time to start recording the Tx power measured at DUT RF port using the power meter. After the initial 100 seconds since starting the Tx power recording, the callbox is set to request maximum power from the DUT for the rest of the test. Note that the call drop/re-establish, or technology/band/antenna switch or DSI switch is manually performed when the Tx power of DUT is at Preserve level. See Section 4.3 for detailed test procedure of call drop test, technology/band/antenna switch test and DSI switch test.

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MEASUREMENT TEST SETUP (FREQ > 6 GHZ)

Radiated Power Measurement Test setup

The Keysight Technologies E7515B UXM callbox is used in this test. The schematic of the setup is shown in Figure 7-1. The UXM callbox has two RF radio heads to up/down convert IF to mmW frequencies, which in turn are connected to two horn antennas for V- and H-polarizations for downlink communication. In the uplink, a directional coupler is used in the path of one of the horn antennas to measure and record radiated power using a Rohde & Schwarz NRP50S power sensor. Note here that the isolation of the directional coupler may not be sufficient to attenuate the downlink signal from the callbox, which will result in high noise floor masking the recording of radiated power from EUT. In that case, either lower the downlink signal strength emanating from the RF radio heads of callbox or add an attenuator between callbox radio heads and directional coupler. Additionally, note that since the measurements performed in this validation are all relative, measurement of EUT's radiated power in one polarization is sufficient. The EUT is placed inside an anechoic chamber with V- and H-pol horn antennas to establish the radio link as shown in Figure 7-1. The callbox's LTE port is directly connected to the EUT's RF port via a directional coupler to measure the EUT's conducted Tx power using a Rohde & Schwarz NRP8S power sensor. Additionally, EUT is connected to the PC via USB connection for sending beam switch command. Care is taken to route the USB cable and RF cable (for LTE connection) away from the EUT's mmW antenna modules.

Setup in Figure 7-1 is used for the test scenario 1, 5 and 6 described in Section 3. The test procedures described in Section 5 are followed. The path losses from the EUT to both the power meters are calibrated and used as offset in the power meter.

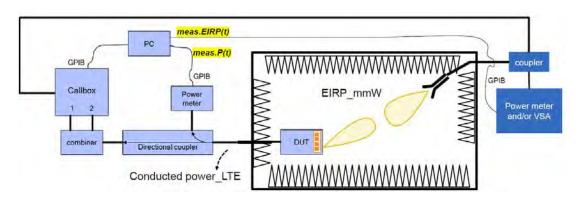


Figure 7-1 mmW NR radiated power measurement setup – Test Setup Photos 10

Both the callbox and power meters are connected to the PC using USB cables. Test scripts are custom made for automation of establishing LTE + mmW call, LTE + sub6 NR call, and sub6 NR + mmW call conducted Tx powers recording for LTE, sub6 NR and radiated Tx power recording for mmW. These tests are manually stopped after desired time duration. Test script is programmed to set LTE Tx power to alldown bits on the callbox immediately after the mmW link is established and programmed to set toggle between all-up and all-down bits depending on the transmission scenario being evaluated. Similarly, test

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script is also programmed to send beam switch command manually to the EUT via USB connection. For all the tests, the callbox is set to request maximum Tx power in mmW NR radio from EUT all the time.

Test configurations for this validation are detailed in Section 5.2. Test procedures are listed in Section 5.3.

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8 TEST CONFIGURATIONS (FREQ < 6 GHZ)

8.1 **Sub6 Transmission**

The P_{limit} values, corresponding to 1.0 W/kg (1gSAR) and 2.5 W/kg (10gSAR) of SAR_design_target, for technologies and bands supported by DUT are derived in Part 0 report and summarized in Table 8-1. Note all Plimit power levels entered in Table 8-1 correspond to average power levels after accounting for duty cycle in the case of TDD modulation schemes.

Table 8-1 Plimit for supported technologies and bands (Plimit in EFS file)

Exposure Scenario		Maximum Tune-Up	Body-Worn, Hotspot, or Phablet	Head	
Averaging Volume		Output	1g/10g	1g	
Spacing Configuration	Power*	10mm, 0mm	0mm		
DSI			i	0	1
Technology/Band	Antenna	Antenna	P _{max}	P _{limit}	P _{limit}
GSM 850	A	Group AG0	25.3	30.2	30.2
GSM 850	E	AG1	25.3	28.4	20.8
GSM 1900	A	AG0	22.1	17.8	28.0
UMTS 850	Α	AG0	24.0	28.0	29.8
UMTS 850	Е	AG1	24.0	26.8	21.0
UMTS 1750	A	AG0	22.5	18.0	27.6
UMTS 1900	A	AG0	23.5	17.5	27.8
LTE Band 71 LTE Band 71	A F	AG0 AG1	24.0 24.0	28.7	30.1 18.0
LTE Band 12	A	AG0	24.0	29.5	30.3
LTE Band 12	Е	AG1	24.3	27.9	21.0
LTE Band 13	Α	AG0	24.0	28.5	30.0
LTE Band 13	E	AG1	24.0	26.2	21.0
LTE Band 14	Α	AG0	24.3	28.8	29.9
LTE Band 14	E	AG1	24.3	26.4	21.0
LTE Band 26/5	A E	AG0	24.0	28.8 26.2	29.8
LTE Band 26/5 LTE Band 66/4	A	AG1 AG0	24.0	26.2 18.5	21.0 27.3
LTE Band 66/4	F	AG1	23.5	20.0	16.0
LTE Band 25/2	A	AG0	23.5	18.0	28.8
LTE Band 25/2	F	AG1	23.5	20.0	18.0
LTE Band 30	Α	AG0	22.5	19.0	34.8
LTE Band 30	F	AG1	22.5	18.0	16.5
LTE Band 7	В	AG0	23.0	19.0	31.2
LTE Band 7	F	AG1	23.0	17.0	15.5
LTE Band 41	B	AG0	22.0	19.0 16.0	18.4 14.5
LTE Band 41 LTE Band 38	В	AG1 AG0	22.0	17.0	18.4
LTE Band 38	F	AG1	22.0	14.5	12.5
LTE Band 48	F	AG1	20.5	16.5	12.5
NR Band n71	А	AG0	24.0	28.4	31.0
NR Band n71	E	AG1	24.0	27.5	18.0
NR Band n12	A	AG0	24.3	28.6	31.2
NR Band n12	E	AG1	24.3	28.2	21.0
NR Band n14	A	AG0	24.0	28.7	34.2
NR Band n14 NR Band n26/n5	A	AG1 AG0	24.0	26.8 27.6	21.0 33.5
NR Band n26/n5	F	AG1	24.0	25.8	21.0
NR Band n70	A	AG0	23.0	19.0	28.5
NR Band n70	F	AG1	23.0	19.0	16.0
NR Band n66	Α	AG0	23.5	18.5	26.7
NR Band n66	F	AG1	23.5	20.0	16.0
NR Band n25/n2	A	AG0	23.5	18.0	28.0
NR Band n25/n2 NR Band n30	F A	AG1 AG0	23.5	20.0 19.0	18.0 34.9
NR Band n30	F	AG1	22.5	18.0	16.5
NR Band n7	В	AG0	23.0	19.0	30.7
NR Band n7	F	AG1	23.0	17.0	15.5
NR Band n41 PC2 (Path 1)	F	AG1	26.0	16.5	13.5
NR Band n41 PC2 (Path 1)	В	AG0	25.0	19.0	17.5
NR Band n41 PC2 (Path 1)	E	AG1	24.0	17.5	16.0
NR Band n41 PC2 (Path 1)	D	AG0	20.0	15.5	14.0
NR Band n41 PC2 (Path 2) NR Band n41 PC2 (Path 2)	B F	AG0	26.0 21.0	20.0 16.5	24.0 13.5
NR Band n41 PC2 (Path 2) NR Band n41 PC2 (Path 2)	D D	AG1 AG0	21.0	16.5 15.5	13.5
NR Band n41 PC2 (Path 2)	E	AG1	19.0	17.5	16.0
NR Band n38 (Path 1)	F	AG1	24.0	16.5	13.5
NR Band n38 (Path 2)	В	AG0	24.0	19.0	24.0
NR Band n48	F	AG1	22.5	18.0	14.0
NR Band n48	С	AG0	19.5	13.0	9.0
NR Band n48 NR Band n48	I D	AG1 AG0	22.5 18.5	16.0	12.0
NR Band n48 NR Band n77/n78 PC2	D F	AG0 AG1	18.5 26.0	11.5 17.0	7.5 15.0
NR Band n77/n78 PC2	C	AG0	19.0	11.0	10.0
NR Band n77/n78 PC2	ı	AG1	23.5	15.0	14.0
NR Band n77/n78 PC2	D	AG0	18.0	10.0	9.0
2.4 GHz WIFI	Н	AG1	19.0	20.1	13.0
2.4 GHz WIFI	J	AG1	19.0	25.1	13.0
2.4 GHz WIFI	MIMO	AG1	19.0	19.6	13.0
5 GHz WIFI	Н	AG1	17.0	16.0	13.0
5 GHz WIFI	E	AG1	17.0	16.0	13.0
5 GHz WIFI	MIMO	AG1	17.0	16.0	13.0
6 GHz WIFI 6 GHz WIFI	H F	AG1	16.0 16.0	10.5	9.0
6 GHz WIFI	MIMO	AG1	16.0	10.5	9.0
2.4 GHz Bluetooth	H	AG1	17.4	20.2	10.9
2.4 GHz Bluetooth	J	AG1	17.4	26.9	10.9
2.4 GHz Bluetooth	MIMO	AG1	10.9	19.3	17.7
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* Maximum tune up target power, P_{max} , is configured in NV settings in DUT to limit maximum transmitting power. This power is converted into peak power in NV settings for TDD schemes. The DUT maximum allowed output power is equal to P_{max} + 1 dB device uncertainty.

Based on selection criteria described in Section 4.2.1, the selected technologies/bands for testing timevarying test sequences are highlighted in yellow in Table 8-1. Per the manufacturer, the Total_min_res_ratio is set to 0.5 in EFS and is used in Part 2 test.

The radio configurations used in Part 2 test for selected technologies, bands, DSIs and antennas are listed in Table 8-2. The corresponding worst-case radio configuration 1gSAR values for selected technology/band/DSI are extracted from Part 1 report and are listed in the last column of Table 8-2.

Based on equations (1a), (2a), (3a) and (4a), it is clear that Part 2 testing outcome is normalized quantity, which implies that it can be applied to any radio configuration within a selected technology/band/DSI. Thus, as long as applying the worst-case SAR obtained from the worst radio configuration in Part 1 testing to calculate time-varying SAR exposure in equations (1a), (2a), (3a) and (4a), the accuracy in compliance demonstration remains the same. Therefore, there may be some differences between the radio configuration selected for Part 2 testing and the radio configuration associated with worst-case SAR obtained in the Part 1 evaluation.

The measured P_{limit} for all the selected radio configurations are listed in below Table 8-2. P_{max} was also measured for radio configurations selected for testing time-varying Tx power transmission scenarios in order to generate test sequences following the test procedures in Section 4.1.

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Table 8-2
Radio configurations selected for Part 2 test

Test Case #	Test Scenario	Tech	Band	Antenna	DSI	Channel	Frequency [MHz]	Test Configurations	SAR Exposure Scenario	Part 1 Worst Case Measured SAR at Plimit (W/kg)	EFS Plimit [dBm]	Tune-up Pmax [dBm]	Measured Plimit [dBm]	Measured Pmax [dBm]
1		GSM	1900	Α	0	661	1880	GPRS 4Tx Slots	Bottom Edge, 10mm	0.430	17.8	21.3	17.09	20.51
2		WCDMA	5	E	1	4183	836.5	RMC	Left Cheek	0.659	21.0	24.0	20.51	23.85
3	Time Varying Tx Power	LTE	41	F	1	40620	2593.0	QPSK 1/50/20 MHz BW	Right Cheek	0.372	14.5	22.0	14.47	21.98
4		NR	26	E	1	166300	831.5	DFT-S-OFDM, QPSK 1/1/20 MHz BW	Left Cheek	0.752	21.0	24.0	20.06	23.28
5		WLAN	2.4	J	1	6	2437	802.11b 20MHz BW DSSS	Left Cheek	0.289	13.0	19.0	13.85	18.96
6	Change in Call	LTE	41	F	1	40620	2593	QPSK 1/50/20 MHz BW	Right Cheek	0.372	14.5	22.0	14.47	21.98
7	Change in	LTE	7	В	0	21100	2535	QPSK 1/50/20 MHz BW	Left Edge, 10mm	0.244	19.0	23.0	18.81	22.98
'	Technology/Band/Antenna	WCDMA	2	А	0	9400	1880	RMC	Bottom Edge, 10mm	0.695	17.5	23.5	18.04	23.56
8	Change in Time Window	LTE	25	F	1	26365	1882.5	QPSK 1/50/20 MHz BW	Right Tilt	0.918	18.0	23.5	17.87	23.88
°	Change in Time Window	LIE	48	F	1	56207	3646.7	QPSK 1/50/20 MHz BW	Right Tilt	0.545 12.5 20.5 0.674 21.0 24.0	13.30	19.77		
9	WWAN SAR Exposure	LTE	5	E	1	20525	836.5	QPSK 1/25/10 MHz BW	Left Cheek	0.674	21.0	24.0	20.45	23.75
9	Switching (EN-DC)	Sub6 NR	n66	F	1	349000	1745	DFT-S-OFDM, QPSK 1/1/40 MHz BW	Right Cheek	0.660	16.0	23.5	16.84	24.45
10	WLAN SAR Exposure	WLAN	5	E	1	36	5180	802.11ac 20MHz BW DSSS	Right Cheek	0.092	13.0	17.0	13.09	16.84
10	WEAN SAR Exposure	WLAN	2.4	J	1	6	2437	802.11n 20MHz BW DSSS	Left Cheek	0.289	13.0	17.0	13.85	17.67
		WWAN (LTE)	5	E	1	20525	836.5	QPSK 1/25/10 MHz BW	Left Cheek	0.674	21.0	24.0	20.45	23.75
11	System Level Compliance Continuity	Bluetooth	2.4	н	1	0	2402	DSSS	Right Cheek	0.218	10.9	17.4	11.76	17.25
		WLAN	2.4	J	1	6	2437	802.11b 20MHz BW DSSS	Left Cheek	0.289	13.0	19.0	13.85	18.96
12		LΤΕ	48	F	1	56207	3646.7	QPSK 1/50/20 MHz BW	Right Tilt	0.545	12.5	20.5	13.3	19.77
12	Exposure Category Switch	LIE	40	r	0	56207	3646.7	QPSK 1/50/20 MHz BW	Top Edge, 10mm	0.315	16.5	20.5	17.33	19.77
13	Exposure Category Switch	LTE	41	F	0	40620	2593	QPSK 1/50/20 MHz BW	Back Side, 10mm	0.119	16.0	22.0	15.97	21.98
15		LIE	41	ſ	1	40620	2593	QPSK 1/50/20 MHz BW	Right Cheek	0.372	14.5	22.0	14.47	21.98

Note: The device uncertainty of P_{max} is +/- 1 dB as provided by manufacturer.

Note: The above P_{max} value for GPRS850 and GPRS1900 are for 4 Tx Slots.

Table 8-3
DSI and Corresponding Exposure Scenarios

Scenario	Description	SAR Test Cases
Head (DSI = 1)	Device positioned next to headReceiver Active	Head SAR per KDB Publication 648474 D04
Hotspot mode (DSI = 0)	Device transmits in hotspot mode near bodyHotspot Mode Active	Hotspot SAR per KDB Publication 941225 D06
Phablet (DSI = 0)	Device is held with hand	Phablet SAR per KDB Publication 648474 D04 & KDB Publication 616217 D04
Body-worn (DSI = 0)	Device being used with a body-worn accessory	Body-worn SAR per KDB Publication 648474 D04

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Based on the selection criteria described in Section 4.2, the radio configurations for the Tx varying transmission test cases listed in Section 3 are:

- Technologies and bands for time-varying Tx power transmission: The test case 1~5 listed in Table 8-2 are selected to test with the test sequences defined in Section 4.2.1 in both time-varying conducted power measurement and time-varying SAR measurement.
- Technology and band for change in call test: Based on selection criteria in Section 4.2.2, LTE Band 41, having the lowest P_{limit} among all technologies and bands (test case 6 in Table 8-2), is selected for performing the call drop test in conducted power setup.
- 3. Technologies and bands for change in technology/band/antenna test: Based on selection criteria in Section 4.2.3 and 4.2.4, test case 17 in Table 8-2 is selected for handover test from a technology/band within one technology group (LTE Band 7, DSI=0, antenna B), to a technology/band in the same DSI within another technology group (WCDMA Band 2, DSI=0, antenna A) in conducted power setup.
- 4. <u>Technologies and bands for change in time-window</u>: Based on selection criteria in Section 4.2.6, for a given DSI=1, test case 8 in Table 8-2 is selected for time window switch between 60s window (LTE Band 48, Antenna F) and 100s window (LTE Band 25, Antenna F) in conducted power setup.
- 5. Technologies and bands for switch in SAR exposure: Based on selection criteria in Section 4.2.7 Scenario 1, test case 9 in Table 8-2 is selected for SAR exposure switching test in one of the supported simultaneous WWAN transmission scenario, i.e., LTE + Sub6 NR active in the same 100s time window, in conducted power setup. Test case 10 in Table 8-2 is selected for SAR exposure switching test in one of the supported simultaneous DBS WLAN transmission scenario, i.e., WLAN + WLAN active in the same 30s time window, in conducted power setup. Since this device supports LTE+mmW NR, test for Section 4.2.7 Scenario 2 for RF exposure switch is covered in Sections 13.1 and 13.2 between LTE (100s window) and mmW NR (4s window).
- 6. Technologies and bands for switch in exposure category: Based on selection criteria in Section 4.2.8 Scenario 1, test case 12 in Table 8-2 is selected for switch in exposure category test by establishing a call in LTE Band 48 in DSI=1 (head exposure) and then handing over to DSI=0 (non-head exposure) scenario in conducted power setup. Based on selection criteria in Section 4.2.8 Scenario 2, test case 13 in Table 8-2 is selected for switch in exposure category test by establishing a call in LTE Band 41 in DSI=0 (non-head exposure) and then handing over to DSI=1 (head exposure) scenario in conducted power setup.
- 7. Technologies and bands for system level compliance continuity: Based on selection criteria in Section 4.2.9, test case 11 in Table 8-2 is selected for system level compliance continuity test by establishing a call in LTE Band 5 in DSI=1 and then handing over to WLAN and BT in scenario described in section 4.3.9.

<u>Note</u>: All switching and EN-DC test cases (#7 - #13) were done with modes/bands within the same antenna group.

Note: System level compliance continuity was performed with USB disconnected from DUT per Qualcomm 80-W2112-51 RevYE guidance.

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8.2 EFS v23 Verification

Per Qualcomm's 80-w2112-5 document, embedded file system (EFS) version 23 products are required to be verified for Smart Tx generation for relevant MCC settings. It was confirmed that this DUT contains embedded file system (EFS) version 23 configured for Smart Tx second generation (GEN2) for Sub6 with MCC settings for the US market.

EFS v23 Generation	MCC
GEN2_Sub6	310

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9 CONDUCTED TX CASES (FREQ < 6 GHZ)

Time-varying Tx Power 9.1

The measurement setup is shown in Figure 6-1a. The purpose of the time-varying Tx power measurement is to demonstrate the effectiveness of power limiting enforcement and that the time-averaged Tx power when represented in time-averaged 1gSAR or 10gSAR values does not exceed FCC limit as shown in Eq. (1a) and (1b), rewritten below:

$$1g_or_10gSAR(t) = \frac{conducted_Tx_power(t)}{conducted_Tx_power_P_{limit}} * 1g_or_10gSAR_P_{limit}$$
 (1a)

$$\frac{\frac{1}{T_{SAR}} \int_{t-T_{SAR}}^{t} 1g_or_10gSAR(t)dt}{FCC\ SAR\ limit} \le 1 \tag{1b}$$

where, $conducted_Tx_power(t)$, $conducted_Tx_power_P_{limit}$, and $1g_or_10gSAR_P_{limit}$ correspond to the measured instantaneous conducted Tx power, measured conducted Tx power at P_{limit}, and measured 1qSAR and 10qSAR values at P_{limit} reported in Part 1 test (listed in Table 8-2 of this report as well).

Following the test procedure in Section 4.3.1, the conducted Tx power measurement for all selected configurations are reported in this section. In all the conducted Tx power plots, the green curve represents time-averaged power and red line represents the conducted power limit that corresponds to FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

Similarly, in all the 1g or 10gSAR plots (when converted using Eq. (1a)), the green curve represents the 100s/60s-time averaged 1gSAR or 10gSAR value calculated based on instantaneous 1gSAR or 10gSAR; and the red line limit represents the FCC limit of 1.6 W/kg for 1gSAR or 4.0 W/kg for 10gSAR.

Time-varying Tx power measurements were conducted on test cases $#1 \sim #5$ in Table 8-2, by generating test sequence 1 and test sequence 2 given in APPENDIX C: using measured Plimit and measured P_{max} (last two columns of Table 8-2) for each of these test cases. Measurement results for test cases #1 ~ #5 are given in Sections 9.1.1-9.1.5.

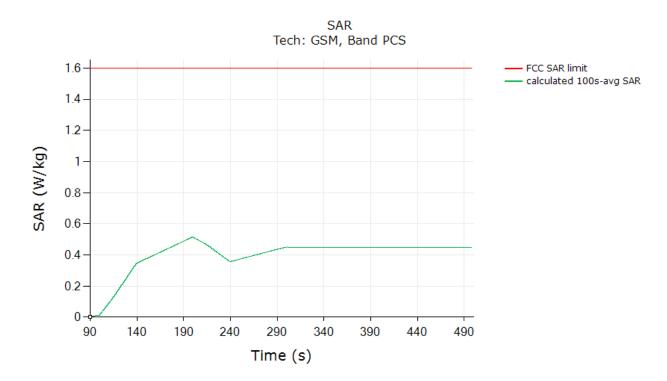
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9.1.1 GSM/GPRS/EDGE 1900, Antenna A

Test result for test sequence 1:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.516
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured	

SAR at *P_{limit}* (worst case SAR at Plim column in Table 8-2).

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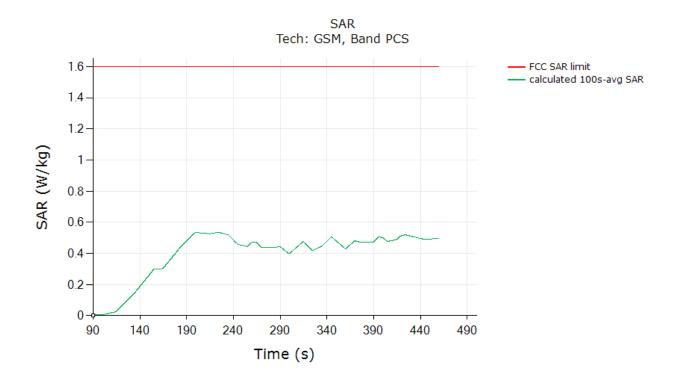
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Test result for test sequence 2:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.537
Validated: May times averaged CAD (smaan average) is within 1 dD	

Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured SAR at Plim column in Table 8-2).

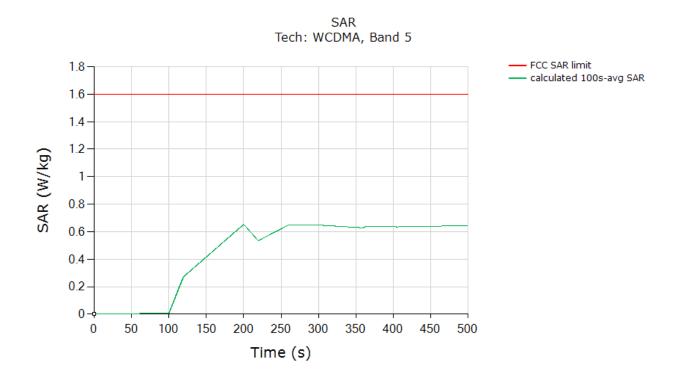
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WCDMA Band 5, Antenna E 9.1.2

Test result for test sequence 1:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.652
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured SAR at <i>Plimit</i> (worst case SAR at Plim column in Table 8-2).	

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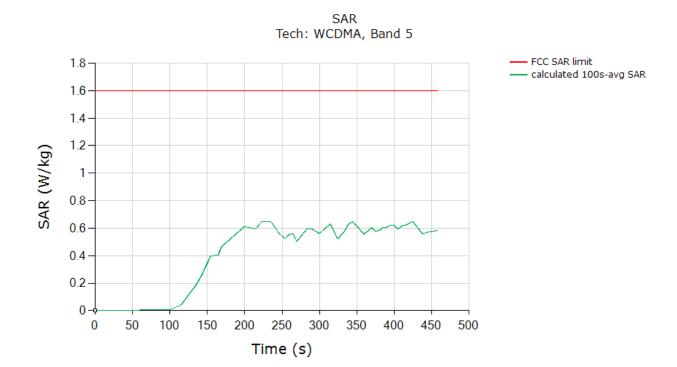
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Test result for test sequence 2:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.649
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured SAR at P_{limit} (worst case SAR at Plim column in Table 8-2).	

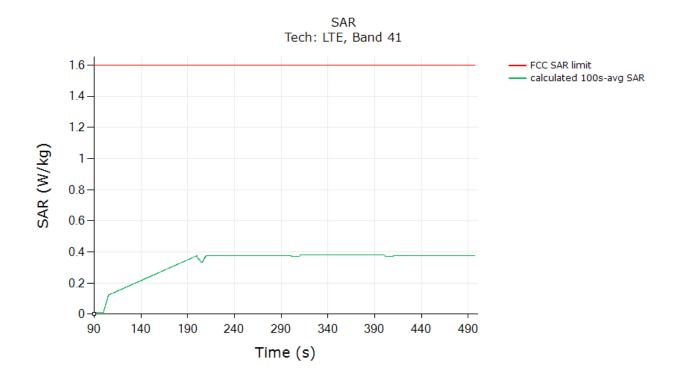
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LTE Band 41, Antenna F 9.1.3

Test result for test sequence 1:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve) 0.379	
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured	

SAR at *P_{limit}* (worst case SAR at Plim column in Table 8-2).

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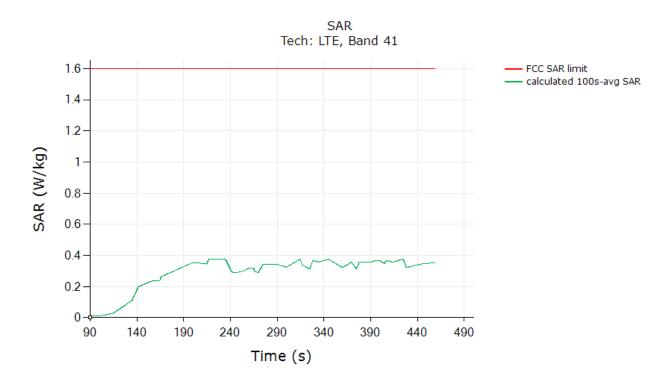
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Test result for test sequence 2:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.376
Velidete de Mare time a company de CAD (company company) in within A dD design company in the formatter of company com	

Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured SAR at Plim column in Table 8-2).

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NR n26 SA, Antenna E 9.1.4

Test result for test sequence 1:

0.2 -

0 -0

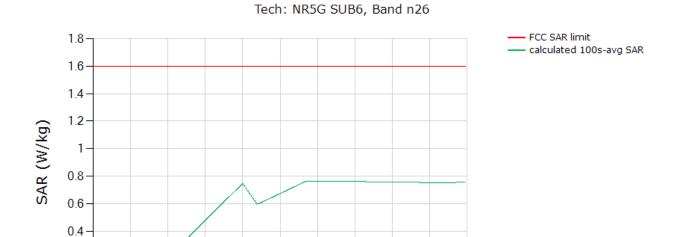
50

100

150

200

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



SAR

	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.762
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured	

250

Time (s)

300

350

400

450

500

SAR at *P_{limit}* (worst case SAR at Plim column in Table 8-2).

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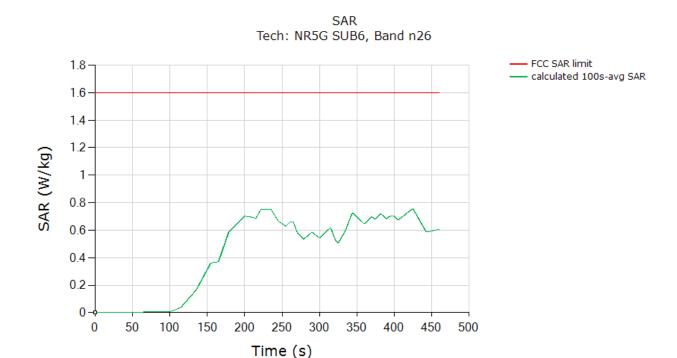
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Test result for test sequence 2:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.756
Validated: May time averaged CAD (green average) is within 4 dD	

Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured SAR at Plim column in Table 8-2).

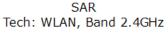
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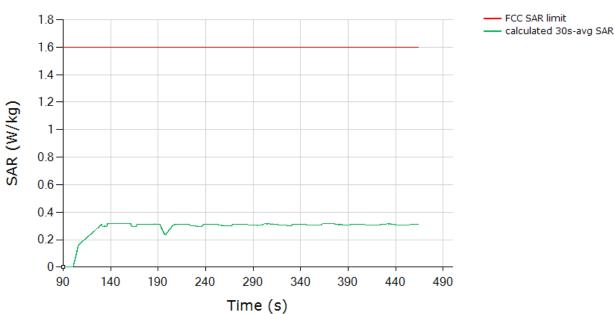


9.1.5 WLAN 2.4GHz, Antenna J

Test result for test sequence:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:





	(W/kg)
FCC 1gSAR limit	1.6
Max 30s-time averaged 1gSAR (green curve)	0.317
Validated: Max time averaged SAR (green curve) is within 1 dB device uncertainty of measured	

SAR at Plimit (worst case SAR at Plim column in Table 8-2).

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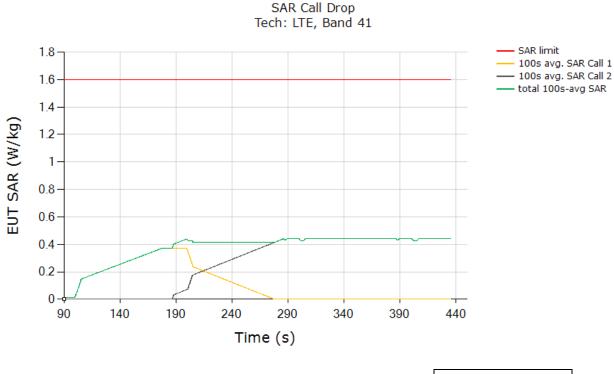


9.2 **Change in Call**

This test was measured LTE Band 41, Antenna F, DSI = 1, and with callbox requesting maximum power. The call drop was manually performed when the DUT is transmitting at Preserve level as shown in the plot below. The measurement setup is shown in Figure 6-1a. The detailed test procedure is described in Section 4.3.2.

Call drop test result:

Time-averaged conducted Tx power is converted/calculated into time-averaged 1gSAR using Equation (1a) and plotted below to demonstrate that the time-averaged 1gSAR versus time does not exceed the FCC limit of 1.6 W/kg for 1gSAR:



	(W/kg)
FCC 1gSAR limit	1.6
Max 100s-time averaged 1gSAR (green curve)	0.441
Validated	

The test result validated the continuity of power limiting in call change scenario.

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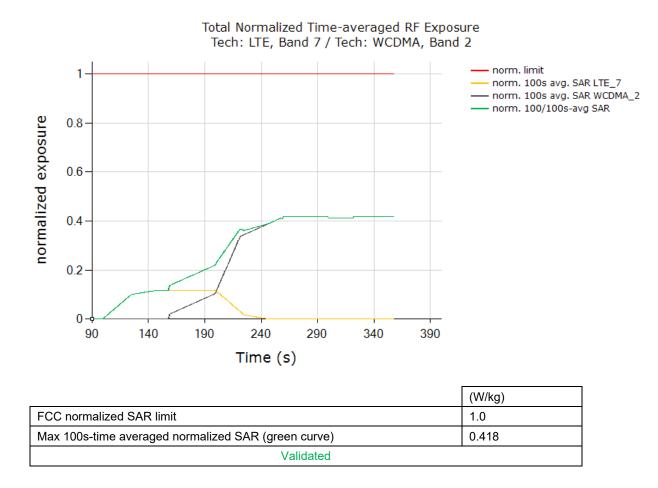


9.3 Change in Technology/Band/Antenna

This test was conducted with callbox requesting maximum power, and with a technology switch from LTE Band 7, Antenna B, DSI = 0 to WCDMA Band 2, Antenna A, DSI = 0. Following procedure detailed in Section 4.3.3, and using the measurement setup shown in Figure 6-1b, the technology/band switch was performed when the DUT is transmitting at Preserve level as shown in the plot below.

Test result for change in technology/band/Antenna:

Time-averaged conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (6a), (6b) and (6c), and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the normalized FCC limit of 1.0:



The test result validated the continuity of power limiting in technology/band/Antenna switch scenario.

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9.4 Change in Time Window

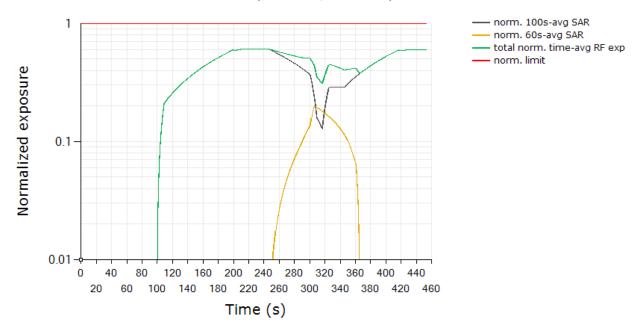
This test was conducted with callbox requesting maximum power, and with time-window switch between LTE Band 25, Antenna F, DSI = 1 (100s window) and LTE Band 48, Antenna F, DSI = 1 (60s window). Following procedure detailed in Section 4.3.6, and using the measurement setup shown in Figure 6-1a, the time-window switch via tech/band/antenna switch was performed when the EUT is transmitting at $P_{reserve}$ level.

9.4.1 Test case 1: transition from LTE Band 25 to LTE Band 48 (i.e., 100s to 60s), then back to LTE Band 25

Test result for change in time-window (from 100s to 60s to 100s):

All the conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (7a), (7b) and (7c), and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the FCC limit of 1 unit. Equation (7a) is used to convert the Tx power of device to obtain 100s-averaged normalized SAR in LTE Band 25 as shown in black curve. Similarly, equation (7b) is used to obtain 60s-averaged normalized SAR in LTE Band 48 as shown in orange curve. Equation (7c) is used to obtain total time-averaged normalized SAR as shown in green curve (i.e., sum of black and orange curves).

Total Normalized Time-averaged RF Exposure Tech: LTE, Band 25 / Tech: LTE, Band 48



	(W/kg)
FCC normalized total exposure limit	1.0
Max time averaged normalized SAR (green curve)	0.611
Validated	

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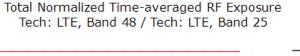


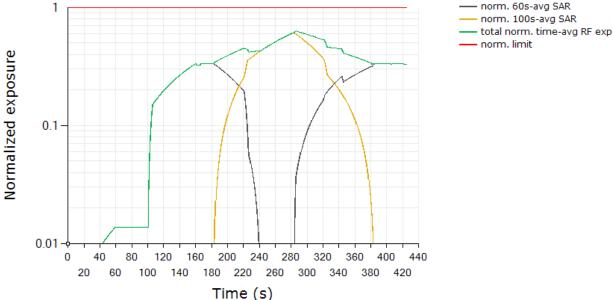
Plot Notes: Maximum power is requested by callbox for the entire duration of the test, with tech/band switches from 100s-to-60s window at ~246s time stamp, and from 60s-to-100s window at ~306s time stamp. Smart Transmit controls the Tx power during these time-window switches to ensure total time-averaged RF exposure, i.e., sum of black and orange curves given by equation (7c), is always compliant. In time-window switch test, at all times the total time-averaged normalized RF exposure (green curve) should not exceed normalized $SAR_design_target + 1dB$ device uncertainty. In this test, with a maximum normalized SAR of 0.611 being ≤ 0.79 (= 1.0/1.6 + 1dB device uncertainty), the above test result validated the continuity of power limiting in time-window switch scenario.

9.4.2 Test case 2: transition from LTE Band 48 to LTE Band 25 (i.e., 60s to 100s), then back to LTE Band 48

Test result for change in time-window (from 60s to 100s to 60s):

All the conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (7a), (7b) and (7c), and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the FCC limit of 1 unit. Equation (7a) is used to convert the Tx power of device to obtain 60s-averaged normalized SAR in LTE Band 48 as shown in black curve. Similarly, equation (7b) is used to obtain 100s-averaged normalized SAR in LTE Band 25 as shown in orange curve. Equation (7c) is used to obtain total time-averaged normalized SAR as shown in green curve (i.e., sum of black and orange curves).





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	(W/kg)
FCC normalized total exposure limit	1.0
Max time averaged normalized SAR (green curve)	0.634
Validated	

Plot Notes: Maximum power is requested by callbox for the entire duration of the test, with tech/band switches from 60s-to-100s window at ~183s time stamp, and from 100s-to-60s window at ~284s time stamp. Smart Transmit controls the Tx power during these time-window switches to ensure total time-averaged RF exposure, i.e., sum of black and orange curves given by equation (7c), is always compliant. In time-window switch test, at all times the total time-averaged normalized RF exposure (green curve) should not exceed normalized $SAR_design_target + 1dB$ device uncertainty. In this test, with a maximum normalized SAR of 0.634 being ≤ 0.79 (= 1.0/1.6 + 1dB device uncertainty), the above test result validated the continuity of power limiting in time-window switch scenario.

9.5 SAR Exposure Switching (EN-DC)

This test was conducted with callbox requesting maximum power, and with the EUT in LTE Band 5 + Sub6 NR Band n66 call. Following procedure detailed in Section 4.3.7 and Appendix D.2, and using the measurement setup shown in Figure 6-1c since LTE and Sub6 NR are on different antenna ports, the SAR exposure switch measurement is performed with the EUT in various SAR exposure scenarios, i.e., in SAR_{sub6NR} only scenario (t =0s \sim 120s), SAR_{sub6NR} + SAR_{LTE} scenario (t =120s \sim 240s) and SAR_{LTE} only scenario (t > 240s).

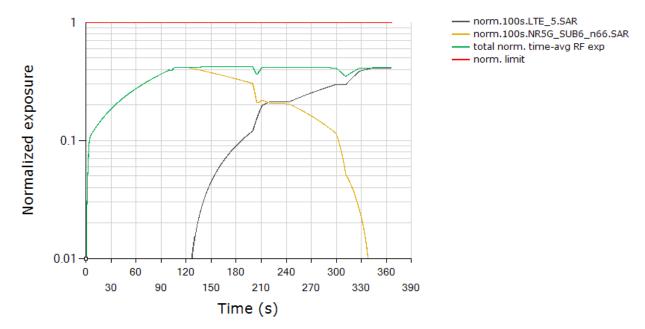
Plot Notes: All the conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (7a), (7b) and (7c), and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the FCC limit of 1 unit. Equation (7a) is used to convert the LTE Tx power of device to obtain 100s-averaged normalized SAR in LTE Band 5 as shown in black curve. Similarly, equation (7b) is used to obtain 100s-averaged normalized SAR in Sub6 NR n66 as shown in orange curve. Equation (7c) is used to obtain total time-averaged normalized SAR as shown in green curve (i.e., sum of black and orange curves).

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Total Normalized Time-averaged RF Exposure Tech: LTE, Band 5 / Tech: NR5G SUB6, Band n66



	(W/kg)
FCC normalized total exposure limit	1.0
Max time averaged normalized SAR (green curve)	0.425
Validated	

Plot Notes: Device starts predominantly in Sub6 NR SAR exposure scenario between 0s and 120s, and in LTE SAR + Sub6 NR SAR exposure scenario between 120s and 240s, and in predominantly in LTE SAR exposure scenario after t=240s. Here, Smart Transmit allocates a maximum of 100% of exposure margin for Sub6 NR. This corresponds to a normalized 1gSAR exposure value = 100% * 0.660 W/kg measured SAR at Sub6 NR Plimit / 1.6W/kg limit = 0.413 ± 1dB device related uncertainty (see orange curve between 120s). For predominantly LTE SAR exposure scenario, maximum normalized 1gSAR exposure should correspond to 100% exposure margin = 0.674 W/kg measured SAR at LTE Plimit / 1.6W/kg limit = 0.421 ± 1dB device related uncertainty (see black curve after t = 240s). Additionally, in SAR exposure switch test, at all times the total time-averaged normalized RF exposure (green curve) should not exceed normalized SAR design target + 1dB device uncertainty. In this test, with a maximum normalized SAR of 0.425 being ≤ 0.79 (= 1.0/1.6 + 1dB device uncertainty), the above test result validated the continuity of power limiting in SAR exposure switch scenario.

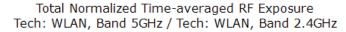
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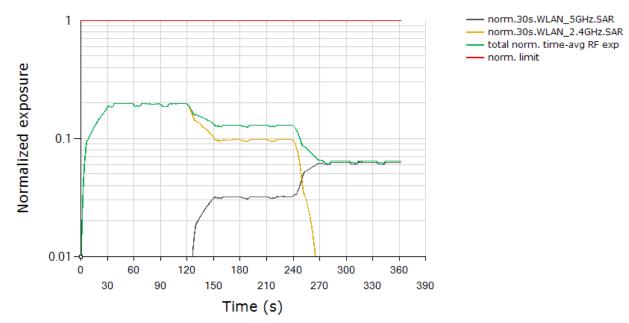


9.6 SAR Exposure Switching WLAN DBS

This test was conducted with callbox requesting maximum power, and with the EUT in WLAN 2.4GHz + WLAN 5GHz call. Following procedure detailed in Section 4.3.7, and using the measurement setup shown in Figure 6-1e since WLAN channels have different antenna ports, the SAR exposure switch measurement is performed with the EUT in various SAR exposure scenarios, i.e., in SAR_{WLAN 2.4GHz} only scenario (t =0s ~120s), SAR_{WLAN 2.4GHz} + SAR_{WLAN 5GHz} scenario (t =120s ~ 240s) and SAR_{WLAN 5GHz} only scenario (t > 240s).

Plot Notes: All the conducted Tx power measurement results were converted into time-averaged normalized SAR values using Equation (7a), (7b) and (7c), and plotted below to demonstrate that the time-averaged normalized SAR versus time does not exceed the FCC limit of 1 unit. Equation (7a) is used to convert the WLAN Tx power of device to obtain 30s-averaged normalized SAR in WLAN 5GHz as shown in black curve. Similarly, equation (7b) is used to obtain 30s-averaged normalized SAR in WLAN 2.4GHz as shown in orange curve. Equation (7c) is used to obtain total time-averaged normalized SAR as shown in green curve (i.e., sum of black and orange curves).





	(W/kg)
FCC normalized total exposure limit	1.0
Max time averaged normalized SAR (green curve)	0.199
Validated	

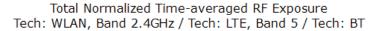
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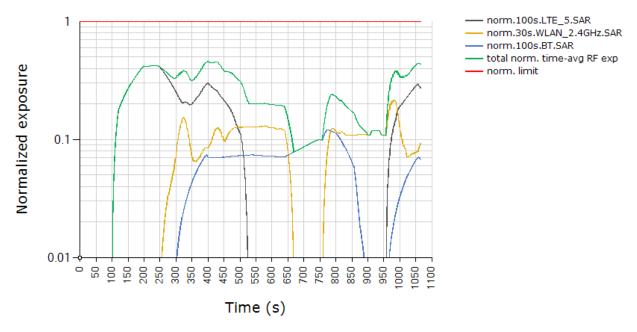


Plot Notes: In this test, the total time-averaged normalized RF exposure (green curve) did not exceed normalized limit of 1.0 at all times, the above test result validated the continuity of power limiting in SAR exposure switch scenario.

9.7 System Level Compliance Continuity

This test was conducted with callbox requesting maximum power, and with the EUT in LTE Band 5 + WLAN 2.4GHz + Bluetooth call. Following procedure detailed in Section 4.3.9, and using the measurement setup shown in Figure 6-1f since WWAN, WLAN, Bluetooth are in different antenna ports, the SAR exposure switch measurement is performed with the EUT in various SAR exposure scenarios, WWAN radio transmission, WLAN transmission, simultaneous transmission of WWAN + WLAN + BT, simultaneous transmission of WLAN + BT in airplane mode, BT in airplane mode, WLAN in airplane mode, and finally simultaneous transmission of WWAN + WLAN + BT.





	(W/kg)
FCC normalized total exposure limit	1.0
Max time averaged normalized SAR (green curve)	0.459
Validated	

In this test, the total time-averaged normalized RF exposure (green curve) did not exceed normalized limit of 1.0 at all times, the above test result validated the total RF exposure compliance in system level compliance continuity test scenario.

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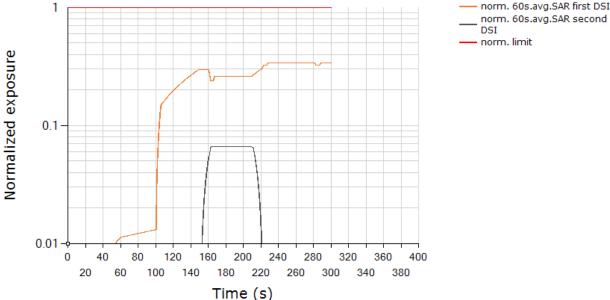
Note: This test was performed with USB disconnected from DUT per Qualcomm 80-W2112-51 RevYE guidance.

9.8 **Exposure Category Switch**

This test was conducted with callbox requesting maximum power, and with exposure category switch between LTE Band 48, Antenna F, DSI = 1 (Head) and LTE Band 48, Antenna F, DSI = 0 (non-Head). Following procedure detailed in Section 4.3.8 and using the measurement setup shown in Figure 6-1a, the exposure category switch was performed when the EUT is transmitting at Preserve level.

Test case 1: Transition from LTE B48 DSI=1 (Head) to LTE B48 DSI=0 9.8.1 (non-Head), then back to DSI=1 (Head)





	(W/kg)
FCC normalized total exposure limit	1.0
Max 60s-time averaged normalized SAR (first DSI, orange curve)	0.338
Validated	

Plot Notes: Maximum power is requested by callbox for the entire duration of the test, time-averaged exposure in head DSI gradually increases until t~150s where the device is switched from head exposure DSI (first DSI, orange curve) to non-head exposure DSI (second DSI, black curve) as evident from increase in exposure of black curve and no change in orange curve between t~150s and t~163s. At

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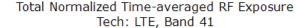
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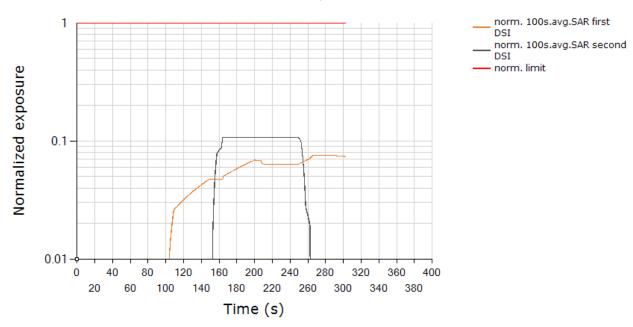


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t~163s, device is switched back from non-head exposure to head exposure as evident from increase in exposure of orange curve and no change in black curve. In this test, the time-averaged normalized RF exposure in head exposure DSI (orange curve) did not exceed normalized limit of 1.0 at all times, and is less than normalized SAR of 0.338 being \leq 0.79 (= 1.0/1.6 + 1dB device uncertainty), validating the exposure continuity when switching between head exposure and non-head exposure categories.

9.8.2 Test case 2: Transition from LTE B41 DSI=0 (non-Head) to LTE B41 DSI=1 (Head), then back to DSI=0 (non-Head)





	(W/kg)
FCC normalized total exposure limit	1.0
Max 100s-time averaged normalized SAR (first DSI, orange curve)	0.075
Validated	

Plot Notes: Maximum power is requested by callbox for the entire duration of the test, time-averaged exposure in head DSI gradually increases until t~150s where the device is switched from non-head exposure DSI (first DSI, orange curve) to head exposure DSI (second DSI, black curve) as evident from increase in exposure of black curve and no change in orange curve between t~150s and t~164s. At t~164s, device is switched back from head exposure to non-head exposure as evident from increase in exposure of orange curve and no change in black curve. In this test, the time-averaged normalized RF exposure in head exposure DSI (orange curve) did not exceed normalized limit of 1.0 at all times, and is

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less than normalized SAR of 0.075 being \leq 0.79 (= 1.0/1.6 + 1dB device uncertainty), validating the exposure continuity when switching between head exposure and non-head exposure categories.

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10 TEST CONFIGURATIONS (FREQ > 6 GHZ)

10.1 LTE + mmW NR Transmission

Based on the selection criteria described in Section 5.2, the selections for LTE and mmW NR validation test are listed in Table 10-1. The radio configurations used in this test are listed in Table 10-2.

Table 10-1
Selections for LTE + mmW NR validation measurements

Transmission Scenario	Test	Technology and Band	mmWave Beam
Time-varying Tx power test	Cond. & Rad. Power meas.	LTE Band 2 and n258	Beam ID 20
Switch in SAR vs. PD	Cond. & Rad. Power meas.	LTE Band 2 and n258	Beam ID 20
Beam switch test	Cond. & Rad. Power meas.	LTE Band 2 and n258	Beam ID 20 to Beam ID 2

Table 10-2
Test configuration for LTE + mmW NR validation

Tech	Band	Antenna	DSI	Channel	Freq (MHz)	RB/RB Offset/Bandwidth (MHz)	Mode	UL Duty Cycle
LTE	2	Α	0	18900	1880	1/0/20 MHz BW	QPSK	100%
mmW NR	n258	М	-	2032499	25200	20/22/100 MHz BW	DFT-s-OFDM, QPSK	75.6%*

Smart Transmit EFS version 23 supports DSI applicability feature. With this new enhancement, in simultaneous transmission scenarios involving sub6 radio + mmW radio, for a given DSI, both sub6 exposure and mmW exposure will be evaluated at the DSI corresponding separation distance in TER analysis, but in the same time, the compliance of mmW exposure at 2mm is ensured for all DSI states (Note: at this time, FCC requires PD compliance at 2mm for all DSI states). Thus, below two steps are implemented in Smart Transmit with EFS version 23:

1. For TER calcuation, scale PD exposure at 2mm down to the same separation distance at which sub6 exposure is measured for that DSI using 'DSI_PD_ratio' (see Appendix G.1.3 of 80-W2112-4 Part 1 report for the definition of DSI_PD_ratio and its calculation), i.e.,

$$TER_at_DSI_distance = \frac{sub6\ exposure}{regulatory\ sub6\ limit} + \frac{PD\ exposure}{regulatory\ PD\ limit}\ x\ DSI_PD_ratio \tag{9a}$$

Where,

$$DSI_PD_ratio = \frac{PD_at_DSI_separation_distance}{PD_at_2mm}$$
 (9b)

2. Below conditions will also be met irrespective of DSI state:

$$\frac{PD_at_2mm}{regulatory_PD_limit} \le 1.0$$
 (9c)

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10.2 mmW NR and LTE Radiated Power

To demonstrate the compliance, the conducted Tx power of LTE Band 2 in DSI = 0 is converted to 1gSAR exposure by applying the corresponding worst-case 1g SAR value at P_{limit} as reported in Part 1 report and listed in Table 8-2 and 10-3 of this report.

Similarly, following Step 4 in Section 5.3.1, radiated Tx power of mmW Band n258 for the beams tested is converted by applying the corresponding measured worst-case 4cm²PD values, and listed in below Table 10-3. Qualcomm Smart Transmit feature operates based on time-averaged Tx power reported on a per symbol basis, which is independent of modulation, channel and bandwidth (RBs), therefore the worstcase 4cm²PD was conducted with the EUT in FTM mode, with CW modulation and 100% duty cycle. cDASY6 system verification for power density measurement is provided in Section 14, and the associated SPEAG certificates are attached in Appendix E.

Both the worst-case 1gSAR and 4cm²PD values used in this section are listed in Table 10-3. The measured EIRP at input.power.limit for the beams tested in this section are also listed in Table 10-3.

Table 10-3 Selections for LTE + mmW NR validation measurements

Tech	Band	Antonna	Beam ID	input.power.limit	Measured psPD at input.power.limit		Measured EIRP at input.power.limit	DSI PD ratio
10011	Dana	Antenna	Beam 15	(dBm)	4cm² psPD (W/m²)	Test Position	(dBm)	DOI_I D_IUUO
mmW NR	n258	М	20	5.7	5.84	Left Edge	10.91	1.0
IIIIIIVV INF	11236	M	2	12.4	4.11	Left Edge	8.45	1.0
				•	•		_	•
Tooh	Dand	Antonno	Dei	Measured Plimit	Mea	asured 1g SAR at Plimit		

Test Position

Botton Edge, 10mm

Smart Transmit EFS version 23 supports DSI applicability feature. With this new enhancement, in simultaneous transmission scenarios involving sub6 radio + mmW radio, for a given DSI, both sub6 exposure and mmW exposure will be evaluated at the DSI corresponding separation distance in TER analysis, but in the same time, the compliance of mmW exposure at 2mm is ensured for all DSI states (Note: at this time, FCC requires PD compliance at 2mm for all DSI states). Thus, below two steps are implemented in Smart Transmit with EFS version 23:

1g SAR (W/kg)

0.623

(dBm)

17.84

2. For TER calcuation, scale PD exposure at 2mm down to the same separation distance at which sub6 exposure is measured for that DSI using 'DSI PD ratio' (see Appendix G.1.3 of 80-W2112-4 Part 1 report for the definition of DSI PD ratio and its calculation), i.e.,

$$TER_at_DSI_distance = \frac{sub6\ exposure}{regulatory\ sub6\ limit} + \frac{PD\ exposure}{regulatory\ PD\ limit} \times DSI_PD_ratio$$
 (9a)

Where,

LTE

$$DSI_PD_ratio = \frac{PD_at_DSI_separation_distance}{PD_at_2mm}$$
 (9b)

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3. Below condition will also be met irrespective of DSI state:

$$\frac{PD_at_2mm}{regulatory_PD_limit} \le 1.0$$
 (9c)

Figure 10-1
4cm² psPD distribution measured at *input.power.limit* of 5.7 dBm on the Right Edge at 2mm for n258 beam 20

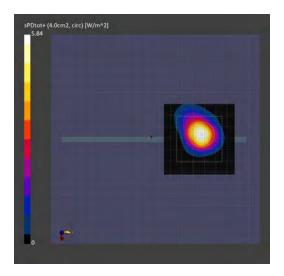
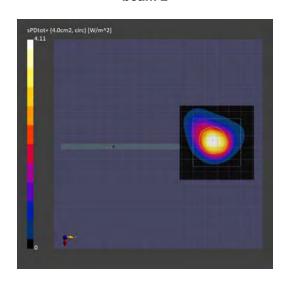


Figure 10-2
4cm² psPD distribution measured at *input.power.limit* of 12.4 dBm on the Right Edge at 2mm for n258 beam 2



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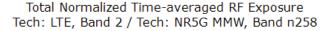


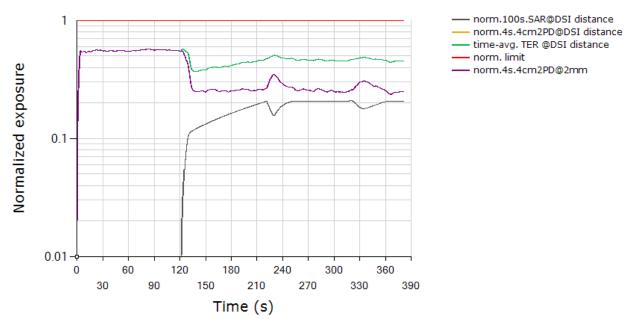
11 RADIATED POWER TX CASES (FREQ > 6 GHZ)

11.1 Time-Varying Tx Power for n258

This test was measured with LTE Band 2 (DSI=0) and mmW Band n258 Beam ID 20 by following the detailed test procedure described in Section 5.3.1.

Time-averaged conducted Tx power for LTE Band 2 and radiated Tx power for mmW NR n258 beam 20 are converted into time-averaged 1gSAR and time-averaged 4cm²PD using Equation (2a) and (2b), which are divided by FCC 1gSAR limit of 1.6 W/kg and 4cm²PD limit of 10 W/m², respectively, to obtain normalized exposures versus time. Below plot shows (a) normalized time-averaged 1gSAR versus time, (b) normalized time-averaged 4cm²-avg.PD versus time, (c) sum of normalized time-averaged 1gSAR and normalized time-averaged 4cm²-avg.PD:





FCC requirement for total RF exposure (normalized)	1.0
Max total normalized time-averaged RF exposure (green curve)	0.576
Validated	

Plot notes: As soon as 5G mmW NR call was established, LTE was placed in all-down bits immediately. Between 0s~120s, mmW exposure is the dominant contributor. Here, Smart Transmit feature allocates a maximum of 1.0 for mmW. At ~120s time mark, LTE is set to all-up bits, taking away margin from mmW exposure gradually and

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towards the end of the test, LTE is the dominant contributor towards RF exposure. Table 11-1 shows the calculations for the normalized 4cm² PD exposure values and the normalized 1g SAR exposure value.

Ta	b	le	1	1	-'
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	Static 4cm ² PD or 1g SAR [W/m ² or W/kg]	Normalized Exposure	Uncertainty [dB]
0s~120s: NR Green/Orange Curve	5.84	58.4%	1.4
After ~120s: LTE Black Curve	0.623	38.9%	1.0

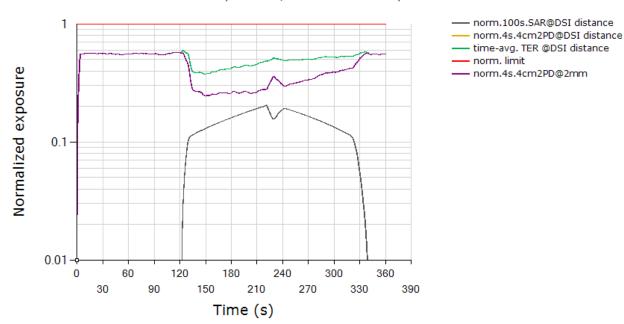
As can be seen, the power limiting enforcement is effective and the total normalized time-averaged RF exposure does not exceed 1.0. Therefore, Qualcomm® Smart Transmit time averaging feature is validated.

11.2 Switch In SAR Vs. PD Exposure for n258

This test was measured with LTE Band 2 (DSI = 0) and mmW Band n258 Beam ID 20, by following the detailed test procedure is described in Section 5.3.2.

Normalized time-averaged exposures for LTE (1gSAR) and mmW (4cm²PD), as well as total normalized timeaveraged exposure versus time:

> Total Normalized Time-averaged RF Exposure Tech: LTE, Band 2 / Tech: NR5G MMW, Band n258



FCC requirement for total RF exposure (normalized)	
Max total normalized time-averaged RF exposure (green curve)	
Validated	

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Plot notes: As soon as 5G mmW NR call was established, LTE was placed in all-down bits immediately. Between 0s~120s, mmW exposure is the dominant contributor. Here, Smart Transmit feature allocates a maximum of 1.0 for mmW). At ~120s time mark, LTE is set to all-up bits, taking away margin from mmW exposure gradually (orange curve for mmW exposure goes down while black curve for LTE exposure goes up). At ~240s time mark, LTE is set to all-down bits, which results in mmW getting back RF margin slowly as seen by gradual increase in mmW exposure (orange curve for mmW exposure goes up while black curve for LTE exposure goes down). Table 11-2 shows the calculations for the normalized 4cm² PD exposure value and the normalized 1g SAR exposure value.

Table 11-2

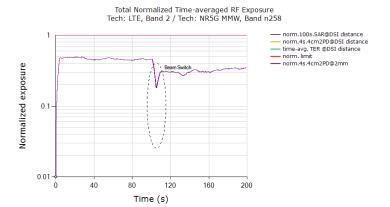
	Static 4cm ² PD or 10g SAR [W/m ² or W/kg]	Normalized Exposure	Uncert [dB]
0s~120s + After 240s: NR Green/Orange Curve	5.84	58.4%	1.4
120s - 240s: LTE Black Curve	0.623	38.9%	1.0

As can be seen, the power limiting enforcement is effective during transmission when SAR and PD exposures are switched, and the total normalized time-averaged RF exposure does not exceed 1.0. Therefore, Qualcomm[®] Smart Transmit time averaging feature is validated.

11.3 Change In Antenna Configuration (Beam) for n258

This test was measured with LTE Band 2 (DSI = 0) and mmW Band n258, with beam switch from Beam ID 20 to Beam ID 2, by following the test procedure is described in Section 5.3.3.

Normalized time-averaged exposures for LTE and mmW (4cm²PD), as well as total normalized time-averaged exposure versus time:



FCC requirement for total RF exposure (normalized)			
Max total normalized time-averaged RF exposure (green curve)			
Validated			

Plot notes: 5G mmW NR call was established at ~1s time mark and LTE was placed in all-down bits immediately after 5G mmW NR call was established. For the rest of this test, mmW exposure is the dominant contributor as LTE is left in all-down bits. Here. Smart Transmit feature allocates a maximum of 1.0 for mmW for the first beam.

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At ~100s time mark (shown in black dotted ellipse), beam switch takes place and mmW starts transmission from the second beam. Second beam transmits at input.power.limit with active power limiting. Table 11-3 shows the calculations for the normalized 4cm² PD exposure values and the difference in EIRPs between two beams.

Table 11-3

Table 11-0						
	Beam ID 20 (0 - 100 sec, before ellipse)	Beam ID 2 (100 - 200 sec, after ellipse)				
Static psPD [W/m²]	5.84	4.11				
Input.power.limit [dBm]	5.7	12.4				
Maximum Power [dBm]	15.5					
Normalized 4cm ² PD exposure value [% ± 2.0 dB uncertainty]	58.4%	41.1%				
EIRP Difference [dB ± 2.0 dB uncertainty]	2.46					

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12 SYSTEM VERIFICATION (FREQ > 6 GHZ)

The system was verified to be within ±0.66 dB of the power density targets on the calibration certificate according to the test system specification in the user's manual and calibration facility recommendation. The 0.66 dB deviation threshold represents the expanded uncertainty for system performance checks using SPEAG's mmWave verification sources. The same spatial resolution and measurement region used in the source calibration was applied during the system check.

The measured power density distribution of verification source was also confirmed through visual inspection to have no noticeable differences, both spatially (shape) and numerically (level) from the distribution provided by the manufacturer, per November 2017 TCBC Workshop Notes.

Table 12-1 System Verification Results

	System Verification									
Syst.	Freq.	Date	Source SN	Probe SN	Normal psPD (W	Normal psPD (W/m² over 4 cm²) Deviation (dB)		Total psPD (W/	m² over 4 cm²)	Deviation (dB)
	(3.1.2)				measured	target		measured	target	
Q	30.00	9/25/2024	1044	9622	37.20	34.00	0.39	37.80	34.00	0.46
N	30.00	10/7/2024	1035	9389	33.00	33.80	-0.10	33.50	34.30	-0.10

Note: A 10 mm distance spacing was used from the reference horn antenna aperture to the probe element. This includes 4.45 mm from the reference antenna horn aperture to the surface of the verification source plus 5.55 mm from the surface to the probe. The SPEAG software requires a setting of "5.55 mm" for the correct setup.

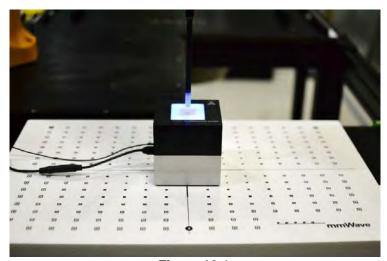


Figure 12-1 **System Verification Setup Photo**

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13 EQUIPMENT LIST

Manufacturer	Model	Description	Cal Date	Cal Interval	Cal Due	Serial Number
Agilent	E4404B	Spectrum Analyzer	N/A	N/A	N/A	MY45113242
Agilent	E4438C	ESG Vector Signal Generator	11/14/2023	Annual	11/14/2024	MY45093852
Agilent	E4438C	ESG Vector Signal Generator	11/15/2023	Annual	11/15/2024	MY45092078
Agilent	N5182A	MXG Vector Signal Generator	3/15/2024	Annual	3/15/2025	MY47420651
Agilent	8753ES	S-Parameter Vector Network Analyzer	1/10/2024	Annual	1/10/2025	MY40001472
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433972
Amplifier Research	15S1G6	Amplifier	CBT	N/A	CBT	433974
Anritsu	MT8000A	Radio Communication Test Station	4/10/2024	Annual	4/10/2025	6261987983
Anritsu	MT8821C	Radio Communication Analyzer MT8821C	5/15/2024	Annual	5/15/2025	6262150047
Anritsu	MA24106A	USB Power Sensor	12/4/2023	Annual	12/4/2024	1520501
Anritsu	MA24106A	USB Power Sensor	4/15/2024	Annual	4/15/2025	1827528
Anritsu	MA2411B	Pulse Power Sensor	7/1/2024	Annual	7/1/2025	1911105
Anritsu	MA2411B MA2411B	Pulse Power Sensor	7/10/2024	Annual	7/10/2025	1126066
COMTECH				N/A		M3W1A00-1002
COMTECH	AR85729-5/5759B	Solid State Amplifier Solid State Amplifier	CBT CBT	N/A N/A	CBT CBT	M1S5A00-009
	AR85729-5			<u> </u>	2/27/2026	240174346
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial		
Control Company	4040	Therm./ Clock/ Humidity Monitor	4/15/2024	Biennial	4/15/2026	240310280
Control Company	4052	Long Stem Thermometer	2/27/2024	Biennial	2/27/2026	240171096
K & L	11SH10-1300/U4000	High Pass Filter	CBT	N/A	CBT	11SH10-1300/U4000
Keysight Technologies	772D	Dual Directional Coupler	CBT	N/A	CBT	MY52180215
Keysight Technologies	E7515B	UXM 5G Wireless Test Platform	CBT	N/A	CBT	MY59150289
Keysight Technologies	M1740A	mmWave Transceiver	CBT	N/A	CBT	MY59291989
Keysight Technologies	M1740A	mmWave Transceiver	CBT	N/A	CBT	MY59291982
Keysight Technologies	E7770A	Common Interface Unit	CBT	N/A	CBT	MY58290483
Krytar	110067006	Directional Coupler, 10 - 67 GHz	CBT	N/A	CBT	200391
MCL	BW-N6W5+	6dB Attenuator	CBT	N/A	CBT	1139
Mini Circuits	ZA2PD2-63-S+	Power Splitter	CBT	N/A	CBT	SUU64901930
Mini Circuits	ZAPD-2-272-S+	Power Splitter	CBT	N/A	CBT	SF702001405
MIniCircuits	NLP-1200+	Low Pass Filter	CBT	N/A	CBT	VUU78201318
MiniCircuits	SLP-2400+	Low Pass Filter	CBT	N/A	CBT	R8979500903
MiniCircuits	VLF-6000+	Low Pass Filter	CBT	N/A	CBT	N/A
				· ·	-	
Mini-Circuits	BW-N20W5+	DC to 18 GHz Precision Fixed 20 dB Attenuator	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-2950+	Low Pass Filter DC to 2700 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	NLP-1200+	Low Pass Filter DC to 1000 MHz	CBT	N/A	CBT	N/A
Mini-Circuits	BW-N20W5	Power Attenuator	CBT	N/A	CBT	1226
Mini-Circuits	ZUDC10-83-S+	Directional Coupler, 0.3 to 8.0 GHz	CBT	N/A	CBT	2050
Narda	4216-10	Directional Coupler, 0.5 to 8.0 GHz, 10 dB	CBT	N/A	CBT	01492
Narda	4216-10	Directional Coupler, 0.5 to 8.0 GHz, 10 dB	CBT	N/A	CBT	01493
Narda	4772-3	Attenuator	CBT	N/A	CBT	9406
Narda	BW-S3W2	Attenuator	CBT	N/A	CBT	120
Narda	BW-S10W2+	Attenuator	CBT	N/A	CBT	831
Narda	4014C-6	4 - 8 GHz SMA 6 dB Directional Coupler	CBT	N/A	CBT	N/A
Newmark System	NSC-G2	Motion Controller	CBT	N/A	CBT	1007-D
Pasternack	PE2208-6	Bidirectional Coupler	CBT	N/A	CBT	N/A
Pasternack	PE2209-10	Bidirectional Coupler	CBT	N/A	CBT	N/A
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/11/2024	Annual	1/11/2025	150117
Rohde & Schwarz	CMW500	Wideband Radio Communication Tester	1/10/2024	Annual	1/10/2025	131454
Rohde & Schwarz	NRP8S	3 Path Dipole Power Sensor	1/16/2024	Annual	1/16/2025	109956
Rohde & Schwarz	NRP8S	3 Path Dipole Power Sensor	12/14/2023	Annual	12/14/2024	109052
Rohde & Schwarz	NRP8S	3-Path Dipole Power Sensor	12/14/2023	Annual	12/14/2024	108168
Rohde & Schwarz	NRP50S	3-Path Dipole Power Sensor	12/14/2023	Annual	12/14/2024	101339
SPEAG	5G Verification Source 30GHz	30GHz System Verification Antenna	5/7/2024	Annual	5/7/2025	1044
SPEAG	5G Verification Source 30GHz	30GHz System Verification Antenna	2/7/2024	Annual	2/7/2025	1035
SPEAG	DAE4ip	Dasy Data Acquisition Electronics	11/15/2023	Annual	11/15/2024	1639
SPEAG	DAE4	Dasy Data Acquisition Electronics	1/9/2024	Annual	1/9/2025	859
SPEAG	EUmmWV3	EUmmWV4 Probe	2/2/2024	Annual	2/2/2025	9622
SPEAG	EUmmWV3	EUmmWV4 Probe	1/5/2024	Annual	1/5/2025	9389
Zhuhai Bojay Electronics	BJ8827	Shielded Test Enclosure	N/A	N/A	N/A	F229647

Notes

- 1. CBT (Calibrated Before Testing). Prior to testing, the measurement paths containing a cable, amplifier, attenuator, coupler, or filter were connected to a calibrated source (i.e. a signal generator) to determine the losses of the measurement path. The power meter offset was then adjusted to compensate for the measurement system losses. This level offset is stored within the power meter before measurements are made. This calibration verification procedure applies to the system verification and output power measurements. The calibrated reading is then taken directly from the power meter after compensation of the losses for all final power measurements.
- 2. Each equipment item is used solely within its respective calibration period.

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14 **MEASUREMENT UNCERTAINTIES**

For SAR Measurements

a	С	d	e=	f	g	h =	i =	k
			f(d,k)			c x f/e	c x g/e	
	Tol.	Prob.	,	Ci	ci	1gm	10gms	
Uncertainty Component	(± %)	Dist.	Div.			-		
Checklamey component	(± %)	Dist.	DIV.	1gm	10 gms	u _i (± %)	u _i (± %)	Vi
Measurement System		<u> </u>				(± /6)	(± /6)	
Probe Calibration	6.55	Ν	1	1.0	1.0	6.6	6.6	∞
Axial Isotropy	0.25	Ν	1	0.7	0.7	0.2	0.2	∞
Hemishperical Isotropy	1.3	Ν	1	0.7	0.7	0.9	0.9	∞
Boundary Effect	2.0	R	1.73	1.0	1.0	1.2	1.2	∞
Linearity	0.3	Ν	1	1.0	1.0	0.3	0.3	∞
System Detection Limits	0.25	R	1.73	1.0	1.0	0.1	0.1	∞
Readout Electronics	0.3	Ν	1	1.0	1.0	0.3	0.3	∞
Response Time	0.8	R	1.73	1.0	1.0	0.5	0.5	∞
Integration Time	2.6	R	1.73	1.0	1.0	1.5	1.5	∞
RF Ambient Conditions - Noise	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
RF Ambient Conditions - Reflections	3.0	R	1.73	1.0	1.0	1.7	1.7	∞
Probe Positioner Mechanical Tolerance	0.4	R	1.73	1.0	1.0	0.2	0.2	∞
Probe Positioning w/ respect to Phantom	6.7	R	1.73	1.0	1.0	3.9	3.9	∞
Extrapolation, Interpolation & Integration algorithms for Max. SAR Evaluation	4.0	R	1.73	1.0	1.0	2.3	2.3	∞
Test Sample Related								
Test Sample Positioning	2.7	Ν	1	1.0	1.0	2.7	2.7	35
Device Holder Uncertainty	1.67	Ν	1	1.0	1.0	1.7	1.7	5
Output Power Variation - SAR drift measurement	5.0	R	1.73	1.0	1.0	2.9	2.9	∞
SAR Scaling	0.0	R	1.73	1.0	1.0	0.0	0.0	∞
Phantom & Tissue Parameters								
Phantom Uncertainty (Shape & Thickness tolerances)	7.6	R	1.73	1.0	1.0	4.4	4.4	×
Liquid Conductivity - measurement uncertainty	4.2	N	1	0.78	0.71	3.3	3.0	10
Liquid Permittivity - measurement uncertainty	4.1	N	1	0.23	0.26	1.0	1.1	10
Liquid Conductivity - Temperature Uncertainty	3.4	R	1.73	0.78	0.71	1.5	1.4	∞
Liquid Permittivity - Temperature Unceritainty	0.6	R	1.73	0.23	0.26	0.1	0.1	∞
Liquid Conductivity - deviation from target values	5.0	R	1.73	0.64	0.43	1.8	1.2	∞
Liquid Permittivity - deviation from target values	5.0	R	1.73	0.60	0.49	1.7	1.4	∞
Combined Standard Uncertainty (k=1) RSS			11.5	11.3	60			
Expanded Uncertainty		k=2				23.0	22.6	
(95% CONFIDENCE LEVEL)		N-2				23.0	22.0	
(33 / 3 33 . 11 . 15 1 1 6 2 2 2 2 2 2)							ļ	ш

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For PD Measurements

a	b	С	d	e	f =	g
					c x f/e	
	Unc.	Prob.			u _i	
Uncertainty Component	(± dB)	Dist.	Div.	c _i	(± dB)	V _i
						·
Measurement System						
Calibration	0.49	Ν	1	1	0.49	∞
Probe Correction	0.00	R	1.73	1	0.00	∞
Frequency Response	0.20	R	1.73	1	0.12	∞
Sensor Cross Coupling	0.00	R	1.73	1	0.00	∞
Isotropy	0.50	R	1.73	1	0.29	∞
Linearity	0.20	R	1.73	1	0.12	∞
Probe Scattering	0.00	R	1.73	1	0.00	∞
Probe Positioning offset	0.30	R	1.73	1	0.17	∞
Probe Positioning Repeatability	0.04	R	1.73	1	0.02	∞
Sensor MechanicalOffset	0.00	R	1.73	1	0.00	∞
Probe Spatial Resolution	0.00	R	1.73	1	0.00	∞
Field Impedence Dependance	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Drift	0.00	R	1.73	1	0.00	∞
Amplitude and Phase Noise	0.04	R	1.73	1	0.02	∞
Measurement Area Truncation	0.00	R	1.73	1	0.00	∞
Data Acquisition	0.03	Ν	1	1	0.03	∞
Sampling	0.00	R	1.73	1	0.00	∞
Field Reconstruction	0.60	R	1.73	1	0.35	∞
Forward Transformation	0.00	R	1.73	1	0.00	∞
Power Density Scaling	0.00	R	1.73	1	0.00	∞
Spatial Averaging	0.10	R	1.73	1	0.06	∞
System Detection Limit	0.04	R	1.73	1	0.02	∞
Test Sample Related	•	•				
Probe Coupling with DUT	0.00	R	1.73	1	0.00	∞
Modulation Response	0.40	R	1.73	1	0.23	∞
Integration Time	0.00	R	1.73	1	0.00	∞
Response Time	0.00	R	1.73	1	0.00	∞
Device Holder Influence	0.10	R	1.73	1	0.06	∞
DUT alignment	0.00	R	1.73	1	0.00	∞
RF Ambient Conditions	0.04	R	1.73	1	0.02	∞
Ambient Reflections	0.04	R	1.73	1	0.02	∞
Immunity/Secondary Reception	0.00	R	1.73	1	0.00	∞
Drift of DUT	0.21	R	1.73	1	0.12	∞
Combined Standard Uncertainty (k=1)	Combined Standard Uncertainty (k=1) RSS					∞
Expanded Uncertainty k=2					1.52	
(95% CONFIDENCE LEVEL)						

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15 CONCLUSION

15.1 Measurement Conclusion

The SAR evaluation indicates that the DUT complies with the RF radiation exposure limits of the FCC and Innovation, Science, and Economic Development Canada, with respect to all parameters subject to this test. These measurements were taken to simulate the RF effects of RF exposure under worst-case conditions. Precise laboratory measures were taken to assure repeatability of the tests. The results and statements relate only to the item(s) tested.

Please note that the absorption and distribution of electromagnetic energy in the body are very complex phenomena that depend on the mass, shape, and size of the body, the orientation of the body with respect to the field vectors, and the electrical properties of both the body and the environment. Other variables that may play a substantial role in possible biological effects are those that characterize the environment (e.g. ambient temperature, air velocity, relative humidity, and body insulation) and those that characterize the individual (e.g. age, gender, activity level, debilitation, or disease). Because various factors may interact with one another to vary the specific biological outcome of an exposure to electromagnetic fields, any protection guide should consider maximal amplification of biological effects as a result of field-body interactions, environmental conditions, and physiological variables. [3]

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