

Page: 1 of 75

# RF Exposure report





The following samples were submitted and identified on behalf of the client as:

Clover Flex **Product Name** 

Clover **Brand Name** C405 Model No.

Quanta Computer Inc. **Applicant** 

No. 188, Wenhua 2nd Road, Guishan District, Taoyuan

City 33377, Taiwan

IEEE/ANSI C95.1-1992, IEEE 1528-2013 **Standards** 

**FCC ID** HFS-C405

**Date of EUT Receipt** Jun. 02, 2022

Date of Test(s) Jul. 05, 2022 ~ Jul. 08, 2022

**Date of Issue** Jul. 27, 2022

In the configuration tested, the EUT complied with the standards specified above.

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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## Signed on behalf of SGS

Clerk / Kimmy Chiou	PM / Tom Chiang	Approved By / John Yeh
Kimmy Chiou	Tom Chiang	John Teh
		Date: Jul. 27, 2022

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Page: 2 of 75

# **Revision History**

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2206000142E5	00	Initial creation of document	Jul. 15, 2022	Kimmy Chiou	*
TESA2206000142E5	01	Modify comment	Jul. 27, 2022	Kimmy Chiou	

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N	Olc	

1.	The mark " * "	' is the revised v	ersion of the rea	port due to comments	submitted by	the certification.

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Page: 3 of 75

# **Contents**

1	GENERAL INFORMATION	4
	1.1 Test Methodology	4
	1.2 Description of EUT	5
	1.3 Maximum value	
2	MEASUREMENT SYSTEM	7
	2.1 Test Facility	7
	2.2 SAR System	8
3	SAR SYSTEM VERIFICATION	
	3.1 Tissue Simulating Liquid	. 12
	3.2 Tissue Simulant Liquid measurement	
	3.3 Measurement results of Tissue Simulant Liquid	. 12
	3.4 The composition of the tissue simulating liquid:	. 14
	3.5 System check	. 14
	3.6 System check results	. 15
4	TEST CONFIGURATIONS	. 16
	4.1 Test Environment	. 16
	4.2 Test Note	. 16
	4.3 Test position	. 20
	4.4 Test limit	
5	maximum OUTPUT POWER	. 24
	5.1 FDD LTE	. 24
	5.3 WLAN	
	5.4 Bluetooth	
	5.5 BLE	
6	SUMMARY OF RESULTS	
	6.1 Decision rules	
	6.2 Summary of SAR Results	
	6.3 Reporting statements of conformity	
	6.4 Conclusion	
7	SIMULTANEOUS TRANSMISSION ANALYSIS	
	7.1 Simultaneous Transmission Scenarios:	
	7.2 Estimated SAR calculation	_
	7.3 SPLSR evaluation and analysis	_
	7.4 Conclusion	
8	INSTRUMENTS LIST	
9	UNCERTAINTY BUDGET	
10	SAR MEASUREMENT results	
11	SAR SYSTEM check results	
12	APPENDIXES	
	12.1 TESA2206000142E5 SAR_Appendix A Photographs	
	12.2 TESA2206000142E5 SAR_Appendix B DAE & Probe Cal. Certificate	
	12.3 TESA2206000142E5 SAR_Appendix C Phantom Description & Dipole Ca	
	Certificate	75

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Page: 4 of 75

#### 1 GENERAL INFORMATION

#### 1.1 Test Methodology

The SAR testing method and procedure for this device is in accordance with the following standards:

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB941225D05v02r05

KDB248227D01v02r01

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Page: 5 of 75

# **Description of EUT**

Product Name	Clover Flex			
Brand Name	Clover	Clover		
Model No.	C405			
FCC ID	HFS-C405			
Mode	LTE: QPSK, 16QAM WLAN: 802.11a/b/g/n/a Bluetooth BR/EDR/LE	WLAN: 802.11a/b/g/n/ac		
	WLAN802.11	Refer to page 40~41		
Duty Cycle	Bluetooth	76.8%		
	LTE FDD	1		
	LTE FDD Band 2	1850~1910		
	LTE FDD Band 4	1710~1755		
	LTE FDD Band 5	824~849		
	LTE FDD Band 12	699~716		
	LTE FDD Band 13	777~787		
TX Frequency Range	LTE FDD Band 17	704~716		
(MHz)	LTE FDD Band 66	1710~1780		
	802.11 b/g/n/ac	2.4GHz (2412 – 2452 MHz)		
	802.11a/n/ac	5.2GHz (5180 –5210 MHz) 5.3GHz (5260 –5290 MHz) 5.6GHz (5500 – 5690 MHz) 5.8GHz (5745 – 5775 MHz)		
	Bluetooth	2.4GHz (2402 – 2480 MHz)		

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Page: 6 of 75

#### 1.3 Maximum value

WWAN		
Mode Highest SAR10g (W/kg)		
LTE Band 4	3.88	

WLAN		
Mode	Highest SAR10g (W/kg)	
Bluetooth(GFSK)	0.13	
2.4G WLAN	0.72	
5G WLAN	0.76	

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Page: 7 of 75

#### **MEASUREMENT SYSTEM**

#### 2.1 **Test Facility**

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, Neihu			
	District, Taipei City, 11493, Taiwan.	SAR 6	TW0029	
SGS Taiwan Ltd.	RF Lab. Township, Taoyuan County,	SAR 1		
Central RF Lab. (TAF code 3702)		SAR 4	TW0028	TW3702
No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3			
	SAR 7	TW0027		

**Note:** Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.

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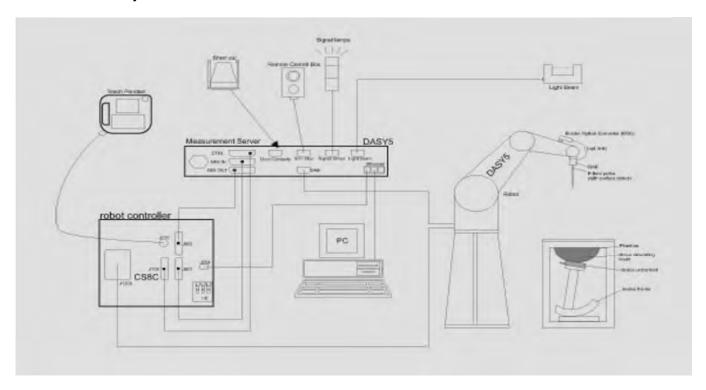


Page: 8 of 75

## **SAR System**

#### **Block Diagram (DASY5)**

A block diagram of the SAR measurement System is given in below. This SAR measurement system uses a computer-controlled 3-D stepper motor system (SPEAG DASY 5 professional system). The model EX3DV4 field probe is used to determine the internal electric fields. The SAR can be obtained from the equation SAR=  $\sigma$  (|Ei|<sup>2</sup>)/  $\rho$  where  $\sigma$  and  $\rho$  are the conductivity and mass density of the tissue-simulant.



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Page: 9 of 75

#### **EX3DV4 E-Field Probe**

LXOD V T L I		
Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2450/5250/5600/5750 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis)	
	± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic	10 $\mu$ W/g to > 100 mW/g	
Range	Linearity: ± 0.2 dB (noise: typically < 1 μW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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Page: 10 of 75

PHANTOM (SAN	л)
Model	Twin SAM
Construction	The shell corresponds to the specifications of the Specific Anthropomorphic Mannequin (SAM) phantom defined in IEEE 1528 and IEC 62209. It enables the dosimetric evaluation of left and right hand phone usage as well as body mounted usage at the flat phantom region. A cover prevents evaporation of the liquid. Reference markings on the phantom allow the complete setup of all predefined phantom positions and measurement grids by manually teaching three points with the robot.
Shell Thickness	2 ± 0.2 mm
Filling Volume	Approx. 25 liters
Dimensions	Height: 850 mm; Length: 1000 mm; Width: 500 mm

#### PHANTOM (FI I)

PHANTOM (E	LI)	
Model	ELI	
Construction	The ELI phantom is used for compliar mounted wireless devices in the frequell is fully compatible with the IEC tissue simulating liquids. ELI has performance and can be integrated in cover prevents evaporation of the liquid phantom allow installation of the complement of the phantom positions and measurement of the phantom is compatible with all SPEAG	uency range of 30 MHz to 6 GHz. 62209-2 standard and all known been optimized regarding its to our standard phantom tables. A quid. Reference markings on the lete setup, including all predefined grids, by teaching three points. The
Shell	2 ± 0.2 mm	
Thickness		
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm	IN STREET, STREET, ST. VA
	Minor axis: 400 mm	

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Page: 11 of 75

# **DEVICE HOLDER (ELI)**

Construction

The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin), which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.



# **DEVICE HOLDER (SAM)**

Construction

In combination with the Twin SAM Phantom V4.0/V4.0C or Twin SAM, the Mounting Device (made from POM) enables the rotation of the mounted transmitter in spherical coordinates, whereby the rotation point is the ear opening. The devices can be easily and accurately positioned according to IEC, IEEE, CENELEC, FCC or other specifications. The device holder can be locked at different phantom locations (left head, right head, flat phantom).



**Device Holder** 

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Page: 12 of 75

# 3 SAR SYSTEM VERIFICATION

## 3.1 Tissue Simulating Liquid

For the measurement of the field distribution inside the SAM phantom with DASY, the phantom must be filled with homogeneous tissue simulating liquid. For head SAR testing, the liquid height from the ear reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

## 3.2 Tissue Simulant Liquid measurement

The dielectric properties for this Head-simulant fluid were measured by using the SPEAG Dielectric Assessment Kit (DAKS-3.5)

All dielectric parameters of tissue simulates were measured within 24 hours of SAR measurements. The measured conductivity and permittivity are all within  $\pm$  5% of the target values.

## 3.3 Measurement results of Tissue Simulant Liquid

#### **WWAN**

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, Er	Target Conductivity, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		704	42.145	0.887	42.031	0.887	-0.27%	0.00%
		707.5	42.127	0.887	42.010	0.887	-0.28%	0.03%
		709	42.119	0.887	42.005	0.888	-0.27%	0.03%
		710	42.113	0.887	41.999	0.888	-0.27%	0.04%
		711	42.108	0.887	41.994	0.888	-0.27%	0.05%
	Jul, 05. 2022	750	41.900	0.890	41.792	0.890	-0.26%	0.00%
		782	41.749	0.894	41.625	0.893	-0.30%	-0.07%
		829	41.528	0.899	41.426	0.905	-0.25%	0.64%
		835	41.500	0.900	41.405	0.907	-0.23%	0.80%
Head		836.5	41.500	0.902	41.397	0.908	-0.25%	0.70%
		844	41.500	0.910	41.372	0.910	-0.31%	0.07%
		1720	40.114	1.354	39.976	1.347	-0.34%	-0.54%
		1732.5	40.107	1.361	39.957	1.354	-0.37%	-0.51%
		1745	40.079	1.369	39.937	1.361	-0.35%	-0.52%
	Jul, 06. 2022	1750	40.071	1.371	39.929	1.364	-0.36%	-0.52%
	Jui, 00. 2022	1770	40.043	1.383	39.897	1.376	-0.36%	-0.51%
		1860	40.000	1.400	39.850	1.396	-0.37%	-0.30%
		1880	40.000	1.400	39.850	1.396	-0.37%	-0.27%
		1900	40.000	1.400	39.850	1.396	-0.37%	-0.26%

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Page: 13 of 75

**WLAN** 

Tissue Type	Measurement Date	Measured Frequency (MHz)	Target Dielectric Constant, er	Target Conductivity, σ (S/m)	Measured Dielectric Constant, Er	Measured Conductivity, σ (S/m)	% dev εr	% dev σ
		2402	39.282	1.757	39.135	1.759	-0.37%	0.11%
		2412	39.265	1.766	39.118	1.768	-0.38%	0.09%
		2437	39.222	1.788	39.073	1.789	-0.38%	0.05%
	Jul, 07. 2022	2441	39.215	1.792	39.066	1.793	-0.38%	0.04%
		2450	39.200	1.800	39.050	1.800	-0.38%	0.03%
		2462	39.184	1.813	39.035	1.811	-0.38%	-0.10%
		2480	39.160	1.832	39.012	1.827	-0.38%	-0.27%
		5180	36.020	4.639	35.859	4.611	-0.45%	-0.60%
		5200	36.000	4.660	35.836	4.632	-0.46%	-0.61%
		5220	35.980	4.680	35.813	4.652	-0.46%	-0.60%
		5240	35.960	4.700	35.790	4.672	-0.47%	-0.59%
Head		5250	35.950	4.710	35.779	4.683	-0.48%	-0.58%
		5260	35.940	4.720	35.767	4.693	-0.48%	-0.58%
		5280	35.920	4.740	35.744	4.713	-0.49%	-0.56%
		5300	35.900	4.760	35.721	4.734	-0.50%	-0.55%
	Jul, 08. 2022	5320	35.880	4.780	35.699	4.754	-0.51%	-0.54%
		5500	35.650	4.965	35.493	4.939	-0.44%	-0.52%
		5600	35.500	5.070	35.379	5.041	-0.34%	-0.58%
		5700	35.400	5.170	35.264	5.142	-0.38%	-0.54%
		5720	35.380	5.190	35.241	5.163	-0.39%	-0.53%
		5745	35.355	5.215	35.213	5.188	-0.40%	-0.51%
		5750	35.350	5.220	35.207	5.193	-0.40%	-0.51%
		5785	35.315	5.255	35.167	5.229	-0.42%	-0.49%
		5825	35.275	5.296	35.121	5.270	-0.44%	-0.50%

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Page: 14 of 75

## The composition of the tissue simulating liquid:

Simulating Liquids for 600 MHz -10 GHz, Manufactured by SPEAG:

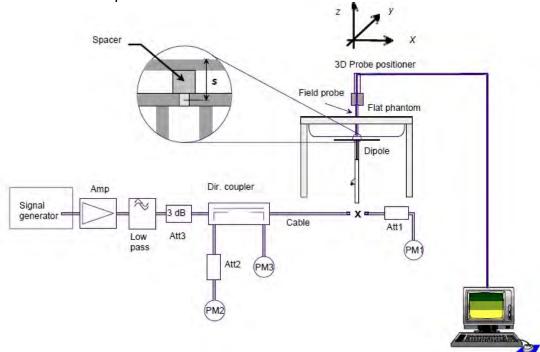
Broad-band head	SPEAG Product	Frequency range (MHz)	Main Ingredients
tissue simulating liquids	HBBL600- 10000V6	600 - 10000	Water, Oil

#### 3.5 System check

The microwave circuit arrangement for system check is sketched in below. The daily system accuracy verification occurs within the flat section of the SAM phantom and ELI phantom. A SAR measurement was performed to see if the measured SAR was within +/- 10% from the target

The tests were conducted on the same days as the measurement of the DUT. The obtained results from the system accuracy verification are displayed with SAR values normalized to 1W forward power delivered to the dipole.

During the tests, the liquid depth from the center of the flat phantom to the liquid top surface was 15 cm above in all the cases. It is seen that the system is operating within its specification, as the results are within acceptable tolerance of the reference values.



The block diagram of system check

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Page: 15 of 75

# 3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	5.59	1.43	5.72	2.33	± 10%	Jul.05,2022
D835V2	4d063	835	6.29	1.54	6.16	-2.07	± 10%	Jul.05,2022
D1750V2	1008	1750	19.2	4.97	19.88	3.54	± 10%	Jul.06,2022
D1900V2	5d173	1900	20.5	5.39	21.56	5.17	± 10%	Jul.06,2022

Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=250mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D2450V2	727	2450	25	6.54	26.16	4.64	± 10%	Jul.07,2022

Validation Kit	S/N	Frequency (MHz)	1W Target 10g-SAR (W/kg)	pin=100mW Measured 10g-SAR (W/kg)	Normalized to 1W 10g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	23.1	2.39	23.9	3.46	± 10%	Jul.08,2022
D5GHzV2	1023	5600	23.8	2.39	23.9	0.42	± 10%	Jul.08,2022
D5GHzV2	1023	5750	22.9	2.33	23.3	1.75	± 10%	Jul.08,2022

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Page: 16 of 75

#### 4 TEST CONFIGURATIONS

#### 4.1 Test Environment

Ambient Temperature: 22±2° C Tissue Simulating Liquid: 22±2° C

#### 4.2 Test Note

- **General:** Measurements are performed respectively on the lowest, middle and highest channels of the operating band(s).
- **General:** The EUT is set to maximum power level during all tests, and at the beginning of each test the battery is fully charged.
- **General:** During the SAR testing, the DASY system checks power drift by comparing the e-field strength of one specific location measured at the beginning with that measured at the end of the SAR testing.
- **General:** According to KDB447498D01v06, testing of other required channels is not required when the reported 1-g SAR for the highest output channel is ≤ 0.8 W/kg, when the transmission band is ≤ 100 MHz. According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is ≥ 0.8 W/kg, repeated that measurement once. Perform a second repeated measurement only if the ratio of largest to smallest SAR for the original and first repeated measurements is > 1.20 or when the original or repeated measurement is ≥ 1.45 W/kg (~ 10% from the 1-g SAR limit).
- LTE: LTE modes test according to KDB 941225D05v02r05.

  a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
- When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel. b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation

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Page: 17 of 75

- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is > ½ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is > ½ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special 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 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

According to KDB 941225 D05, SAR testing for TDD LTE must be tested using a fixed periodic duty factor according to the highest transmission duty factor implemented for the device and supported by the defined 3GPP TDD LTE configurations. The TDD-LTE of this device supports frame structure type 2 defined in 3GPP TS 36.211 section 4.2, and the frame structure configuration can be

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Page: 18 of 75



#### tabulated as below.

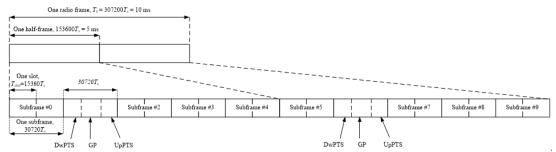


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity)

Table 4.2-1: Configuration of special subframe (lengths of DwPTS/GP/UpPTS)

. 0	No.	ormal cyclic prefix in	downlink@	Ext	tended cyclic prefix in	n downlink∂	
<ul> <li>Special subframe</li> </ul>	DwPTS.□		ets.	DwPTS.		ets:	
configuratio n∞	ę.	Normal cyclic prefix↓ in uplink∂	Extended cyclic prefix ↓ in uplink	ę	Normal cyclic prefix in uplink∂	Extended cyclic prefix in uplink∂	
• 0↩	6592 · T <sub>s</sub> ₽			7680 · T <sub>s</sub> ₽			
1.0	19760 · T <sub>s</sub> ↔			20480·T <sub>s</sub>			
<b>■</b> 2.	21952·T <sub>s</sub>	$(1+X)\cdot 2192\cdot T_s \varphi$	$(1+X)\cdot 2560\cdot T_{\rm s}$		$(1+X)\cdot 2192\cdot T_s \varphi$	$(1+X)\cdot 2560\cdot T_{\rm s}$	
■ 3 <sub>\varphi</sub>	24144·T <sub>s</sub>	, ,		25600·T <sub>s</sub>			
■ 4.0	26336·T <sub>s</sub>			7680 · T <sub>s</sub> «			
<b>■</b> 5∅	6592 · T <sub>s</sub> ₽			20480·T <sub>s</sub>	$(2+X)\cdot 2192\cdot T_s$	(2+X)·2560·T	
<b>•</b> 6₽	19760 · T <sub>s</sub> ₽	()	()	23040 · T <sub>s</sub>	₽	₽	
<b>■</b> 7∅	21952·T <sub>s</sub>	$(2+X)\cdot 2192\cdot T_s$	$(2+X)\cdot 2560\cdot T_{\rm s}$	12800 · T <sub>s</sub> &			
■ 8₽	24144·T <sub>s</sub>			<b>-</b> ¢	-4	-4	
9.	13168 · T <sub>s</sub> &			<b>-</b> ₽	<b>-</b> ₽	-4	

Table 4.2-2: Uplink-downlink configurations

-	Uplink-downlink .	Subframe number∉										
	configuration∂	Switch-point periodicity∂	0.0	1₽	2₽	3₽	4₽	5₽	6₽	7₽	8₽	9₽
-	0₽	5 <b>ms</b> -	D₽	S₽	U₽	U₽	U₽	D₽	S₽	U₽	U₽	U₽
•	1₽	5 <u>ms</u> -	D₽	S₽	U₽	U₽	D₽	D₽	S₽	U₽	U₽	D₽
•	2₽	5 <u>ms</u> -	D₊	S₽	U₽	D₽	D₽	D₽	S₽	U₽	D₽	D₽
•	3₽	10 <u>ms</u> ₽	D₽	S₽	U₽	U₽	U₽	D₽	D₽	D₽	D₽	D₽
•	4₽	10 <u>ms</u> ₽	D₽	S₽	U₽	U₽	D₽	D₽	D₽	D₽	D₽	D₽
-	5₽	10 <u>ms</u> ₽	D₽	S₽	U₽	D₽						
-	6₽	5 ms₂	D₽	S₽	U₽	U₽	U₽	D₽	S₽	U₽	U₽	D₽

Considering the highest transmission duty cycle, TDD LTE was tested using Uplink-Downlink configuration 0 with 6 uplink subframe and 2 special subframe. The special subframe was set to special subframe configuration 6 using extended cyclic prefix uplink. Therefore, SAR testing for TDD LTE was measured at the maximum output power with highest transmission duty cycle of 63.33%.

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Page: 19 of 75

- WLAN 2.4GHz: 802.11b DSSS SAR Test Requirements: SAR is measured for 2.4 GHz 802.11b DSSS mode using the highest measured maximum output power channel, 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 exposure configuration 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.
- WLAN 2.4GHz: 802.11g/n OFDM SAR Test Exclusion Requirements: SAR is not required for 802.11g/n since the highest reported SAR for DSSS is adjusted by the ratio of OFDM to DSSS specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg.
- WLAN 5GHz: Initial Test Configuration: An initial test configuration is determined for OFDM transmission modes according to the channel bandwidth, modulation and data rate combination(s) with the highest maximum output power specified for production units in each standalone and aggregated frequency band. SAR is measured using the highest measured maximum output power channel. When the reported SAR of the initial test configuration is > 0.8 W/kg, SAR measurement is required for the subsequent next highest measured output power channel(s) in the initial test configuration until the reported SAR is ≤ 1.2 W/kg or all required channels are tested. Since the highest reported SAR for the initial test configuration is adjusted by the ratio of the subsequent test configuration to initial test configuration specified maximum output power and the adjusted SAR is ≤ 1.2 W/kg, SAR is not required for subsequent test configuration.

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Page: 20 of 75

# **Test position**

# Specific SAR test position (0 mm)

Based on FCC guidance, extremity SAR is measured for specific surfaces.

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Page: 21 of 75

## § 2.1093(d)(1)

Applications for equipment authorization of portable RF sources subject to routine environmental evaluation must contain a statement confirming compliance with the limits specified in § 1.1310 as part of their application. Technical information showing the basis for this statement must be submitted to the Commission upon request. The SAR limits specified in § 1.1310(a) through (c) of this chapter shall be used for evaluation of portable devices transmitting in the frequency range from 100 kHz to 6 GHz. Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1). A minimum separation distance applicable to the operating configurations and exposure conditions of the device shall be used for the evaluation. In general, maximum time-averaged power levels must be used for evaluation. All unlicensed personal communications service (PCS) devices and unlicensed NII devices shall be subject to the limits for general population/uncontrolled exposure. Radiofrequency radiation exposure limits.

#### § 1.1310(a)

Specific absorption rate (SAR) shall be used to evaluate the environmental impact of human exposure to radiofrequency (RF) radiation as specified in § 1.1307(b) within the frequency range of 100 kHz to 6 GHz (inclusive).

#### § 1.1310(b)

The SAR limits for occupational/controlled exposure are 0.4 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 8 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit for occupational/controlled exposure is 20 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 6 minutes to determine compliance with occupational/controlled SAR limits. § 1.1310(c)

The SAR limits for general population/uncontrolled exposure are 0.08 W/kg, as averaged over the whole body, and a peak spatial-average SAR of 1.6 W/kg, averaged over any 1 gram of tissue (defined as a tissue volume in the shape of a cube). Exceptions are the parts of the human body treated as extremities, such as hands, wrists, feet, ankles, and pinnae, where the peak spatial-average SAR limit is 4 W/kg, averaged over any 10 grams of tissue (defined as a tissue volume in the shape of a cube). Exposure may be averaged over a time period not to exceed 30 minutes to determine compliance with general population/uncontrolled SAR limits.

#### Note to paragraphs (a) through (c):

SAR is a measure of the rate of energy absorption due to exposure to RF electromagnetic energy. These SAR limits to be used for evaluation are based generally on criteria published by the American National Standards Institute (ANSI) for localized SAR in Section 4.2 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017. These criteria for SAR evaluation are similar to those recommended by the National Council on Radiation Protection and Measurements (NCRP) in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Section 17.4.5, copyright 1986 by NCRP, Bethesda, Maryland 20814. Limits for whole body SAR and peak spatial-average

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Page: 22 of 75

SAR are based on recommendations made in both of these documents. The MPE limits in Table 1 are based generally on criteria published by the NCRP in "Biological Effects and Exposure Criteria for Radiofrequency Electromagnetic Fields," NCRP Report No. 86, Sections 17.4.1, 17.4.1.1, 17.4.2 and 17.4.3, copyright 1986 by NCRP, Bethesda, Maryland 20814. In the frequency range from 100 MHz to 1500 MHz, these MPE exposure limits for field strength and power density are also generally based on criteria recommended by the ANSI in Section 4.1 of "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz," ANSI/IEEE Std C95.1-1992, copyright 1992 by the Institute of Electrical and Electronics Engineers, Inc., New York, New York 10017.

Portable devices that transmit at frequencies above 6 GHz shall be evaluated in terms of the MPE limits specified in Table 1 to § 1.1310(e)(1).

According to ANSI/IEEE C95.1-1992, the criteria listed in the following Table shall be used to evaluate the environmental impact of human exposure to radio frequency (RF) radiation as specified in §1.1310.

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

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Page: 23 of 75

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm <sup>2</sup> )	Averaging time (minutes)
	(i) Limits for Oc	cupational/Controlled Exp	posure	
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f <sup>2</sup> )	<6
30-300	61.4	0.163	1.0	<6
300-1,500			f/300	<6
1,500- 100,000			5	<6
	(ii) Limits for Genera	l Population/Uncontrolle	d Exposure	
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f <sup>2</sup> )	<30
30-300	27.5	0.073	0.2	<30
300-1,500			f/1500	<30
1,500- 100,000			1.0	<30

f = frequency in MHz. \* = Plane-wave equivalent power density.Table 1 to § 1.1310(e)(1) - Limits for Maximum Permissible Exposure (MPE)

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Page: 24 of 75

### **MAXIMUM OUTPUT POWER**

#### 5.1 **FDD LTE**

#### FD.

Frequency (MHz)  1860  1880  1900  Max.  Tolerance	PR wed er P(dB) 0 0 0 1
Trequency (MHz)	owed er P(dB)
The property (MHz)    1860	er P(dB) 0 0
Channel 18700 18900 19100 (dBm) 3GF  1 0 21.73 21.61 21.54 22.00  1 50 21.41 21.52 21.50 22.00  1 99 21.49 21.49 21.45 22.00  50 25 20.64 20.58 20.54 21.00  50 50 20.55 20.49 20.44 21.00  100 0 20.48 20.41 20.35 21.00  1 0 20.63 20.59 20.51 21.00  1 99 20.67 20.53 20.53 21.00	0 0 0
1 50 21.41 21.52 21.50 22.00 1 99 21.49 21.49 21.45 22.00 50 0 20.78 20.67 20.43 21.00 50 25 20.64 20.58 20.54 21.00 50 50 20.55 20.49 20.44 21.00 100 0 20.48 20.41 20.35 21.00 1 0 20.63 20.59 20.51 21.00 1 50 20.73 20.51 20.52 21.00 1 99 20.67 20.53 20.53 21.00	0
20 QPSK	0
20     QPSK     50     0     20.78     20.67     20.43     21.00       50     25     20.64     20.58     20.54     21.00       50     50     20.55     20.49     20.44     21.00       100     0     20.48     20.41     20.35     21.00       1     0     20.63     20.59     20.51     21.00       1     50     20.73     20.51     20.52     21.00       1     99     20.67     20.53     20.53     21.00	
50         25         20.64         20.58         20.54         21.00           50         50         20.55         20.49         20.44         21.00           100         0         20.48         20.41         20.35         21.00           1         0         20.63         20.59         20.51         21.00           1         50         20.73         20.51         20.52         21.00           1         99         20.67         20.53         20.53         21.00	1
50         50         20.55         20.49         20.44         21.00           100         0         20.48         20.41         20.35         21.00           1         0         20.63         20.59         20.51         21.00           1         50         20.73         20.51         20.52         21.00           1         99         20.67         20.53         20.53         21.00	
100         0         20.48         20.41         20.35         21.00           1         0         20.63         20.59         20.51         21.00           1         50         20.73         20.51         20.52         21.00           1         99         20.67         20.53         20.53         21.00	1
1     0     20.63     20.59     20.51     21.00       1     50     20.73     20.51     20.52     21.00       1     99     20.67     20.53     20.53     21.00	1
1         50         20.73         20.51         20.52         21.00           1         99         20.67         20.53         20.53         21.00	1
1 99 20.67 20.53 20.53 21.00	1
	1
20 16-OAM 50 0 10.71 10.61 10.54 20.00	1
20   10°04/101   50   0   19.71   19.01   19.04   20.00	2
50 25 19.72 19.54 19.50 20.00	2
50 50 19.66 19.60 19.46 20.00	2
100 0 19.72 19.58 19.53 20.00	2
LTE Band 2	
BW(MHz) Modulation RB Size RB Offset Conducted power (dBm) Target	PR
Frequency (MHz)   1857.5   1880   1902.5   Max.   Tolorance   1	wed er
Channel 18675 18900 19125 (dBm) 3GF	P(dB)
1 0 21.66 21.55 21.51 22.00	0
1 36 21.69 21.60 21.48 22.00	0
1 74 21.65 21.57 21.53 22.00	0
15 QPSK 36 0 20.71 20.54 20.44 21.00	1
36 18 20.68 20.61 20.46 21.00	1
36 37 20.64 20.54 20.48 21.00	1
75 0 20.72 20.52 20.49 21.00	1
1 0 20.71 20.51 20.52 21.00	1
1 36 20.72 20.57 20.49 21.00	1
1 74 20.70 20.61 20.46 21.00	
15 16-QAM 36 0 19.64 19.56 19.44 20.00	1
36 18 19.65 19.57 19.48 20.00	1 2
36 37 19.69 19.51 19.48 20.00	
75 0 19.63 19.59 19.50 20.00	2

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Page: 25 of 75

			LTE	Band 2				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target Power +	MPR
	Frequenc	cy (MHz)		1855	1880	1905	Max. Tolerance	Allowed
	Char	nnel		18650	18900	19150	(dBm)	3GPP(dB)
		1	0	21.71	21.60	21.45	22.00	0
		1	25	21.69	21.53	21.52	22.00	0
		1	49	21.70	21.56	21.47	22.00	0
10	QPSK	25	0	20.69	20.57	20.51	21.00	1
		25	12	20.68	20.58	20.54	21.00	1
		25	25	20.69	20.51	20.45	21.00	1
		50	0	20.64	20.56	20.47	21.00	1
		1	0	20.72	20.56	20.46	21.00	1
		1	13	20.73	20.52	20.52	21.00	1
		1	26	20.73	20.52	20.47	21.00	1
10	16-QAM	12	0	19.69	19.52	19.53	20.00	2
		12	7	19.73	19.60	19.48	20.00	2
		12	15	19.65	19.52	19.53	20.00	2
		27	0	19.71	19.56	19.44	20.00	2
			LTE	Band 2				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target Power +	MPR
	Frequenc	cy (MHz)		1852.5	1880	1907.5	Max Tolerance	Allowed per
	Chai	nnel		18625	18900	19175	(dBm)	3GPP(dB)
		1	0	21.68	21.55	21.52	22.00	0
		1	12	21.71	21.52	21.54	22.00	0
		1	24	21.67	21.61	21.44	22.00	0
5	QPSK	12	0	20.69	20.60	20.47	21.00	1
		12	6	20.68	20.61	20.50	21.00	1
		12	13	20.67	20.59	20.54	21.00	1
		25	0	20.73	20.52	20.48	21.00	1
		1	0	20.68	20.61	20.45	21.00	1
		1	12	20.69	20.55	20.49	21.00	1
		1	24	20.65	20.51	20.44	21.00	1
5	16-QAM	12	0	19.67	19.60	19.49	20.00	2
		12	6	19.72	19.60	19.53	20.00	2
		12	13	19.63	19.59	19.51	20.00	2
		25	0	19.70	19.61	19.47	20.00	2

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Page: 26 of 75

			LTE	Band 2				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1851.5	1880	1908.5	Max Tolerance	Allowed per
	Char	nnel		18615	18900	19185	(dBm)	3GPP(dB)
		1	0	21.71	21.56	21.50	22.00	0
		1	7	21.71	21.52	21.44	22.00	0
		1	14	21.64	21.53	21.53	22.00	0
3	QPSK	8	0	20.71	20.60	20.49	21.00	1
		8	4	20.72	20.58	20.54	21.00	1
		8	7	20.73	20.56	20.48	21.00	1
		15	0	20.65	20.52	20.48	21.00	1
		1	0	20.67	20.53	20.52	21.00	1
		1	7	20.64	20.61	20.49	21.00	1
		1	14	20.67	20.60	20.51	21.00	1
3	16-QAM	8	0	19.73	19.60	19.46	20.00	2
		8	4	19.63	19.55	19.49	20.00	2
		8	7	19.70	19.51	19.51	20.00	2
		15	0	19.66	19.59	19.52	20.00	2
			LTE	Band 2				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1850.7	1880	1909.3	Power + Max. Tolerance	Allowed per
	Char	nnel		18607	18900	19193	(dBm)	3GPP(dB)
		1	0	21.70	21.58	21.48	22.00	0
		1	2	21.70	21.60	21.46	22.00	0
		1	5	21.66	21.57	21.49	22.00	0
1.4	QPSK	3	0	21.66	21.60	21.44	22.00	0
		3	2	21.71	21.51	21.52	22.00	0
		3	3	21.68	21.54	21.49	22.00	0
		6	0	20.72	20.55	20.46	21.00	1
		1	0	20.66	20.51	20.44	21.00	1
		1	2	20.66	20.54	20.53	21.00	1
		1	5	20.63	20.55	20.52	21.00	1
1.4	16-QAM	3	0	20.69	20.52	20.45	21.00	1
		3	2	20.73	20.51	20.53	21.00	1
		3	3	20.71	20.58	20.49	21.00	1
		6	0	19.72	19.61	19.48	20.00	2

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Page: 27 of 75

			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	ey (MHz)		1720	1732.5	1745	Max Tolerance	Allowed
	Char	nnel		20050	20175	20300	(dBm)	3GPP(dB)
		1	0	21.78	21.86	22.12	22.50	0
		1	50	21.48	21.69	21.93	22.50	0
		1	99	21.37	21.58	21.89	22.50	0
20	QPSK	50	0	20.34	20.55	20.79	21.50	1
		50	25	20.32	20.41	21.31	21.50	1
		50	50	20.38	20.39	20.91	21.50	1
		100	0	20.43	20.61	20.78	21.50	1
		1	0	20.69	20.77	21.08	21.50	1
		1	50	20.77	20.80	21.05	21.50	1
		1	99	20.69	20.86	21.07	21.50	1
20	16-QAM	50	0	19.70	19.80	20.02	20.50	2
		50	25	19.73	19.85	20.04	20.50	2
		50	50	19.72	19.80	20.09	20.50	2
		100	0	19.73	19.85	20.06	20.50	2
			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1717.5	1732.5	1747.5	Power + Max. Tolerance	Allowed per
	Char	nnel		20025	20175	20325	(dBm)	3GPP(dB)
		1	0	21.73	21.80	22.06	22.50	0
		1	36	21.72	21.76	22.06	22.50	0
		1	74	21.77	21.82	22.05	22.50	0
15	QPSK	36	0	20.73	20.79	21.12	21.50	1
		36	18	20.77	20.84	21.03	21.50	1
		36	37	20.75	20.77	21.08	21.50	1
		75	0	20.75	20.82	21.11	21.50	1
		1	0	20.72	20.83	21.07	21.50	1
		1	36	20.74	20.78	21.11	21.50	1
		1	74	20.73	20.84	21.11	21.50	1
15	16-QAM	36	0	19.78	19.84	20.03	20.50	2
		36	18	19.71	19.86	20.10	20.50	2
		36	37	19.72	19.78	20.04	20.50	2
		75	0	19.69	19.86	20.03	20.50	2

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Page: 28 of 75

			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1715	1732.5	1750	Max Tolerance	Allowed per
	Char	nnel		20000	20175	20350	(dBm)	3GPP(dB)
		1	0	21.68	21.76	22.05	22.50	0
		1	25	21.71	21.78	22.09	22.50	0
		1	49	21.70	21.81	22.04	22.50	0
10	QPSK	25	0	20.76	20.84	21.09	21.50	1
		25	12	20.71	20.77	21.11	21.50	1
		25	25	20.75	20.82	21.08	21.50	1
		50	0	20.74	20.80	21.11	21.50	1
		1	0	20.77	20.81	21.08	21.50	1
		1	13	20.70	20.85	21.06	21.50	1
		1	26	20.76	20.83	21.08	21.50	1
10	16-QAM	12	0	19.78	19.80	20.04	20.50	2
		12	7	19.70	19.83	20.08	20.50	2
		12	15	19.71	19.85	20.10	20.50	2
		27	0	19.71	19.80	20.10	20.50	2
			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1712.5	1732.5	1752.5	Power + Max. Tolerance	Allowed per
	Char	nnel		19975	20175	20375	(dBm)	3GPP(dB)
		1	0	21.75	21.84	22.07	22.50	0
		1	12	21.72	21.84	22.10	22.50	0
		1	24	21.76	21.79	22.05	22.50	0
5	QPSK	12	0	20.78	20.81	21.08	21.50	1
		12	6	20.72	20.81	21.07	21.50	1
		12	13	20.78	20.84	21.09	21.50	1
		25	0	20.68	20.85	21.11	21.50	1
		1	0	20.74	20.86	21.07	21.50	1
		1	12	20.76	20.83	21.05	21.50	1
		1	24	20.70	20.80	21.03	21.50	1
5	16-QAM	12	0	19.76	19.81	20.11	20.50	2
		12	6	19.76	19.86	20.03	20.50	2
		12	13	19.77	19.78	20.09	20.50	2
		25	0	19.76	19.85	20.11	20.50	2

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Page: 29 of 75

			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target Power +	MPR
	Frequenc	cy (MHz)		1711.5	1732.5	1753.5	Max Tolerance	Allowed per
	Char	nnel		19965	20175	20385	(dBm)	3GPP(dB)
		1	0	21.68	21.82	22.10	22.50	0
		1	7	21.74	21.77	22.11	22.50	0
		1	14	21.73	21.81	22.02	22.50	0
3	QPSK	8	0	20.78	20.84	21.11	21.50	1
		8	4	20.68	20.76	21.11	21.50	1
		8	7	20.73	20.85	21.11	21.50	1
		15	0	20.68	20.84	21.12	21.50	1
		1	0	20.70	20.85	21.07	21.50	1
		1	7	20.76	20.84	21.05	21.50	1
		1	14	20.70	20.79	21.09	21.50	1
3	16-QAM	8	0	19.71	19.85	20.11	20.50	2
		8	4	19.74	19.83	20.08	20.50	2
		8	7	19.73	19.82	20.12	20.50	2
		15	0	19.72	19.79	20.10	20.50	2
			LTE	Band 4				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target Power +	INFR
	Frequenc	cy (MHz)		1710.7	1732.5	1754.3	Max. Tolerance	Allowed per
	Char	nnel		19957	20175	20393	(dBm)	3GPP(dB)
		1	0	21.75	21.78	22.06	22.50	0
		1	2	21.74	21.76	22.07	22.50	0
		1	5	21.75	21.77	22.06	22.50	0
1.4	QPSK	3	0	21.78	21.84	22.03	22.50	0
		3	2	21.77	21.85	22.03	22.50	0
		3	3	21.72	21.76	22.07	22.50	0
		6	0	20.70	20.79	21.10	21.50	1
		1	0	20.77	20.79	21.07	21.50	1
		1	2	20.70	20.80	21.03	21.50	1
	16-QAM	1	5	20.72	20.76	21.09	21.50	1
1.4		3	0	20.68	20.77	21.04	21.50	1
		3	2	20.72	20.84	21.03	21.50	1
		3	3	20.68	20.86	21.11	21.50	1
		6	0	19.71	19.76	20.04	20.50	2

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Page: 30 of 75

			LTE	Band 5				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		829	836.5	844	Power + Max. Tolerance	Allowed per
	Char	nel		20450	20525	20600	(dBm)	3GPP(dB)
		1	0	22.58	22.74	22.37	23.00	0
		1	25	22.41	22.54	22.43	23.00	0
		1	49	22.42	22.39	22.03	23.00	0
10	QPSK	25	0	21.44	21.31	21.62	22.00	1
		25	12	21.34	21.38	21.60	22.00	1
		25	25	21.35	21.43	21.67	22.00	1
		50	0	21.44	21.32	21.53	22.00	1
		1	0	21.57	21.72	21.32	22.00	1
		1	13	21.57	21.66	21.37	22.00	1
		1	26	21.53	21.66	21.34	22.00	1
10	16-QAM	12	0	20.55	20.64	20.27	21.00	2
		12	7	20.52	20.67	20.30	21.00	2
		12	15	20.54	20.66	20.35	21.00	2
		27	0	20.55	20.68	20.34	21.00	2
			LTE	Band 5				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		826.5	836.5	846.5	Power + Max. Tolerance	Allowed per
	Char	nnel		20425	20525	20625	(dBm)	3GPP(dB)
		1	0	22.56	22.71	22.35	23.00	0
		1	12	22.54	22.73	22.36	23.00	0
		1	24	22.52	22.69	22.36	23.00	0
5	QPSK	12	0	21.50	21.65	21.30	22.00	1
		12	6	21.58	21.74	21.27	22.00	1
		12	13	21.53	21.73	21.33	22.00	1
		25	0	21.56	21.69	21.27	22.00	1
		1	0	21.50	21.70	21.30	22.00	1
		1	12	21.48	21.71	21.33	22.00	1
		1	24	21.57	21.71	21.31	22.00	1
5	16-QAM	12	0	20.51	20.71	20.31	21.00	2
		12	6	20.55	20.70	20.34	21.00	2
		12	13	20.50	20.74	20.35	21.00	2
		25	0	20.57	20.73	20.30	21.00	2

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Page: 31 of 75

			LTE	Band 5				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		825.5	836.5	847.5	Max Tolerance	Allowed per
	Char	nnel		20415	20525	20635	(dBm)	3GPP(dB)
		1	0	22.51	22.65	22.34	23.00	0
		1	7	22.49	22.67	22.31	23.00	0
		1	14	22.52	22.65	22.36	23.00	0
3	QPSK	8	0	21.56	21.65	21.31	22.00	1
		8	4	21.54	21.65	21.31	22.00	1
		8	7	21.54	21.72	21.33	22.00	1
		15	0	21.50	21.74	21.34	22.00	1
		1	0	21.48	21.73	21.33	22.00	1
		1	7	21.49	21.67	21.34	22.00	1
		1	14	21.55	21.68	21.37	22.00	1
3	16-QAM	8	0	20.58	20.66	20.27	21.00	2
		8	4	20.50	20.70	20.30	21.00	2
		8	7	20.58	20.73	20.31	21.00	2
		15	0	20.49	20.72	20.31	21.00	2
			LTE	Band 5				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		824.7	836.5	848.3	Power + Max. Tolerance	Allowed per
	Char	nnel		20407	20525	20643	(dBm)	3GPP(dB)
		1	0	22.55	22.66	22.34	23.00	0
		1	2	22.54	22.71	22.34	23.00	0
		1	5	22.57	22.73	22.37	23.00	0
1.4	QPSK	3	0	22.57	22.68	22.32	23.00	0
		3	2	22.48	22.71	22.32	23.00	0
		3	3	22.48	22.70	22.36	23.00	0
		6	0	21.57	21.67	21.36	22.00	1
		1	0	21.51	21.71	21.37	22.00	1
		1	2	21.56	21.64	21.29	22.00	1
		1	5	21.49	21.73	21.34	22.00	1
1.4	16-QAM	3	0	21.52	21.74	21.37	22.00	1
		3	2	21.48	21.74	21.33	22.00	1
		3	3	21.58	21.70	21.29	22.00	1
		6	0	20.57	20.69	20.32	21.00	2

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Page: 32 of 75

			LTE	Band 12				
BW(MHz)	Modulation	RB Size	RB Offset	Condi	ucted power	(dRm)	Tannat	
DVV (IVII 12)	Modulation	IND Size	IND Offset	Condo	ucted power	(ubiii)	Target Power +	MPR
	Frequenc	cy (MHz)		704	707.5	711	Max. Tolerance	Allowed per
	Char	nnel		23060				3GPP(dB)
		1	0	22.48	22.43	22.68	23.00	0
		1	25	22.46	22.51	22.56	23.00	0
		1	49	22.33	22.48	22.52	23.00	0
10	QPSK	25	0	21.41	21.42	21.47	22.00	1
		25	12	21.28	21.36	21.43	22.00	1
		25	25	21.22	21.35	21.40	22.00	1
		50	0	21.40	21.41	21.42	22.00	1
		1	0	21.38	21.30	21.50	22.00	1
		1	13	21.38	21.30	21.49	22.00	1
	16-QAM	1	26	21.29	21.24	21.49	22.00	1
10		12	0	20.38	20.28	20.50	21.00	2
		12	7	20.28	20.24	20.53	21.00	2
		12	15	20.32	20.26	20.54	21.00	2
		27	0	20.37	20.30	20.52	21.00	2
			LTE	Band 12				
BW(MHz)	Modulation	RB Size	RB Offset	Condi	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		701.5	707.5	713.5	Power + Max.	Allowed
	Char	nnel		23035	23095	23155	Tolerance (dBm)	3GPP(dB)
		1	0	22.36	22.32	22.53	23.00	0
		1	12	22.33	22.33	22.52	23.00	0
		1	24	22.29	22.27	22.54	23.00	0
5	QPSK	12	0	21.36	21.32	21.56	22.00	1
		12	6	21.32	21.31	21.49	22.00	1
		12	13	21.28	21.29	21.48	22.00	1
		25	0	21.29	21.24	21.51	22.00	1
		1	0	21.30	21.25	21.58	22.00	1
		1	12	21.28	21.23	21.48	22.00	1
		1	24	21.34	21.24	21.51	22.00	1
5	16-QAM	12	0	20.36	20.28	20.56	21.00	2
		12	6	20.30	20.32	20.58	21.00	2
		12	13	20.36	20.32	20.52	21.00	2
		25	0	20.22	20.21	20.51	24.00	2

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Page: 33 of 75

			LTE	Band 12				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		700.5	707.5	714.5	Max Tolerance	Allowed per
	Char	nnel		23025	23095	23165	(dBm)	3GPP(dB)
		1	0	22.32	22.30	22.52	23.00	0
		1	7	22.33	22.32	22.55	23.00	0
		1	14	22.34	22.27	22.49	23.00	0
3	QPSK	8	0	21.38	21.32	21.55	22.00	1
		8	4	21.30	21.25	21.52	22.00	1
		8	7	21.36	21.26	21.48	22.00	1
		15	0	21.38	21.31	21.48	22.00	1
		1	0	21.37	21.26	21.48	22.00	1
		1	7	21.35	21.26	21.49	22.00	1
		1	14	21.29	21.24	21.49	22.00	1
3	16-QAM	8	0	19.19	19.37	19.63	21.00	2
		8	4	19.22	19.38	19.68	21.00	2
		8	7	19.28	19.35	19.61	21.00	2
		15	0	19.19	19.41	19.61	21.00	2
			LTE I	Band 12				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		699.7	707.5	715.3	Power + Max. Tolerance	Allowed per
	Char	nnel		23017	23095	23173	(dBm)	3GPP(dB)
		1	0	22.29	22.32	22.54	23.00	0
		1	2	22.34	22.23	22.53	23.00	0
		1	5	22.32	22.28	22.49	23.00	0
1.4	QPSK	3	0	21.38	21.25	21.58	23.00	0
		3	2	21.35	21.32	21.55	23.00	0
		3	3	21.33	21.29	21.49	23.00	0
		6	0	21.30	21.30	21.53	22.00	1
		1	0	21.29	21.33	21.49	22.00	1
		1	2	21.35	21.29	21.52	22.00	1
		1	5	21.29	21.33	21.56	22.00	1
1.4	16-QAM	3	0	21.32	21.25	21.48	22.00	1
		3	2	21.32	21.25	21.55	22.00	1
		3	3	21.36	21.30	21.58	22.00	1
		6	0	20.28	20.32	20.56	21.00	2

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Page: 34 of 75

			LTE	Band 13				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	cy (MHz)		782	782	782	Power + Max. Tolerance	Allowed per
	Cha	nnel		23230	23230	23230	(dBm)	3GPP(dB)
		1	0		22.47		22.50	0
		1	25		22.38		22.50	0
		1	49		22.28		22.50	0
10	QPSK	25	0		21.34		21.50	1
		25	12		21.28		21.50	1
		25	25		21.35		21.50	1
		50	0		21.12		21.50	1
		1	0		21.30		21.50	1
		1	13		21.30		21.50	1
	16-QAM	1	26		21.32		21.50	1
10		12	0		20.31		20.50	2
		12	7		20.25		20.50	2
		12	15		20.18		20.50	2
		27	0		20.21		20.50	2
			LTE	Band 13				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MDD
	Frequenc	cy (MHz)		779.5	782	784.5	Power + Max.	MPR Allowed per
	Cha	nnel		23205	23230	23255	Tolerance (dBm)	3GPP(dB)
		1	0	22.29	22.30	22.30	22.50	0
		1	12	22.34	22.37	22.28	22.50	0
		1	24	22.19	22.29	22.23	22.50	0
5	QPSK	12	0	21.26	21.31	21.24	21.50	1
		12	6	21.29	21.30	21.30	21.50	1
		12	13	21.27	21.29	21.28	21.50	1
		25	0	21.21	21.31	21.26	21.50	1
		1	0	21.20	21.30	21.24	21.50	1
		1	12	21.22	21.31	21.21	21.50	1
		1	24	20.18	20.21	20.15	21.50	1
5	16-QAM	12	0	20.19	20.20	20.14	20.50	2
		12	6	20.22	20.27	20.26	20.50	2
		12	13	20.17	20.25	20.23	20.50	2
		25	0	20.40	20.20	20.47	20.50	2

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Page: 35 of 75

			LTE	Band 17				
BW(MHz)	Modulation	RB Size	RB Offset	Condi	ucted power	(dBm)	Target	MPR
	Frequen	cy (MHz)		709	710	711	Max Tolerance	Allowed per
	Cha	nnel		23780	23790	23800	(dBm)	3GPP(dB)
		1	0	22.45	22.44	22.49	22.50	0
		1	25	22.31	22.38	22.15	22.50	0
		1	49	22.36	21.34	22.39	22.50	0
10	QPSK	25	0	21.12	21.25	21.34	21.50	1
		25	12	21.14	21.26	21.28	21.50	1
		25	25	21.08	21.14	21.19	21.50	1
		50	0	20.98	21.04	21.09	21.50	1
		1	0	21.33	21.30	21.31	21.50	1
		1	13	21.34	21.32	21.34	21.50	1
	16-QAM	1	26	21.30	21.33	21.33	21.50	1
10		12	0	20.27	20.18	20.39	20.50	2
		12	7	20.32	20.18	20.37	20.50	2
		12	15	20.31	20.15	20.30	20.50	2
		27	0	20.31	20.22	20.37	20.50	2
			LTE	Band 17				
BW(MHz)	Modulation	RB Size	RB Offset	Cond	ucted power	(dBm)	Target +	MPR
	Frequen	cy (MHz)		706.5	710	713.5	Max Tolerance	Allowed per
	Cha	nnel		23755	23790	23825	(dBm)	3GPP(dB)
		1	0	22.28	22.31	22.30	22.50	0
		1	12	22.25	22.24	22.33	22.50	0
		1	24	22.26	22.28	22.29	22.50	0
5	QPSK	12	0	21.35	21.25	21.30	21.50	1
		12	6	21.26	21.32	21.36	21.50	1
		12	13	21.27	21.24	21.34	21.50	1
		25	0	21.35	21.26	21.29	21.50	1
		1	0	21.28	21.29	21.29	21.50	1
		1	12	21.32	21.32	21.37	21.50	1
		1	24	21.34	21.34	21.32	21.50	1
5	16-QAM	12	0	20.26	20.17	20.30	20.50	2
		12	6	20.27	20.15	20.30	20.50	2
		12	13	20.25	20.22	20.33	20.50	2
ı		25	0	20.26	20.21	20.21	20.50	2

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Page: 36 of 75

			LTE	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1720	1745	1770	Max Tolerance	Allowed per
	Char	nnel		132072	132322	132572	(dBm)	3GPP(dB)
		1	0	21.31	21.62	21.31	22.00	0
		1	50	21.55	21.21	21.26	22.00	0
		1	99	21.40	21.56	21.46	22.00	0
20	QPSK	50	0	20.43	20.32	20.55	21.00	1
		50	25	20.38	20.05	20.48	21.00	1
		50	50	20.35	20.31	20.53	21.00	1
		100	0	20.18	20.21	20.24	21.00	1
		1	0	20.20	20.42	20.16	21.00	1
		1	50	20.14	20.45	20.20	21.00	1
		1	99	20.21	20.43	20.14	21.00	1
20	16-QAM	50	0	19.11	19.42	19.21	20.00	2
		50	25	19.21	19.32	19.21	20.00	2
		50	50	19.17	19.33	19.13	20.00	2
		100	0	19.21	19.40	19.19	20.00	2
			LTE	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1717.5	1745	1772.5	Power + Max. Tolerance	Allowed per
	Char	nnel		132047	132322	132597	(dBm)	3GPP(dB)
		1	0	21.18	21.51	21.18	22.00	0
		1	36	21.13	21.43	21.11	22.00	0
		1	74	21.17	21.47	21.19	22.00	0
15	QPSK	36	0	20.21	20.45	20.12	21.00	1
		36	18	20.16	20.42	20.12	21.00	1
		36	37	20.19	20.43	20.19	21.00	1
		75	0	20.15	20.47	20.20	21.00	1
		1	0	20.16	20.50	20.13	21.00	1
		1	36	20.18	20.48	20.14	21.00	1
		1	74	20.11	20.43	20.18	21.00	1
15	16-QAM	36	0	19.18	19.38	19.18	20.00	2
		36	18	19.14	19.33	19.20	20.00	2
		36	37	19.16	19.37	19.19	20.00	2
		75	0	19.16	19.41	19.14	20.00	2

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Page: 37 of 75

			LTE	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target	MPR
	Frequenc	y (MHz)		1715	1745	1775	Max Tolerance	Allowed per
	Char	nnel		132022	132322	132622	(dBm)	3GPP(dB)
		1	0	21.13	21.45	21.11	22.00	0
		1	25	21.20	21.44	21.17	22.00	0
		1	49	21.12	21.50	21.12	22.00	0
10	QPSK	25	0	20.15	20.48	20.13	21.00	1
		25	12	20.14	20.52	20.20	21.00	1
		25	25	20.18	20.42	20.15	21.00	1
		50	0	20.21	20.49	20.11	21.00	1
		1	0	20.15	20.52	20.21	21.00	1
		1	13	20.13	20.43	20.15	21.00	1
		1	26	20.13	20.42	20.13	21.00	1
10	16-QAM	12	0	19.13	19.40	19.11	20.00	2
		12	7	19.18	19.34	19.18	20.00	2
		12	15	19.20	19.41	19.16	20.00	2
		27	0	19.21	19.37	19.12	20.00	2
			LTE	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	Target	MPR	
	Frequenc	y (MHz)		1712.5	1745	1777.5	Power + Max. Tolerance	Allowed per
	Char	nnel		131997	132322	132647	(dBm)	3GPP(dB)
		1	0	21.17	21.45	21.13	22.00	0
		1	12	21.13	21.49	21.16	22.00	0
		1	24	21.20	21.43	21.20	22.00	0
5	QPSK	12	0	20.11	20.46	20.15	21.00	1
		12	6	20.21	20.48	20.19	21.00	1
		12	13	20.20	20.51	20.14	21.00	1
		25	0	20.21	20.52	20.16	21.00	1
		1	0	20.16	20.52	20.14	21.00	1
		1	12	20.12	20.49	20.16	21.00	1
		1	24	20.11	20.45	20.15	21.00	1
5	16-QAM	12	0	19.15	19.42	19.18	20.00	2
		12	6	19.12	19.34	19.18	20.00	2
		12	13	19.14	19.37	19.12	20.00	2
		25	0	19.18	19.36	19.14	20.00	2

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Page: 38 of 75

			LTE	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	ucted power	(dBm)	Target Power +	MPR
	Frequenc	y (MHz)		1711.5	1745	1778.5	Max. Tolerance	Allowed per
	Char	inel		131987	132322	132657	(dBm)	3GPP(dB)
		1	0	21.13	21.43	21.18	22.00	0
		1	7	21.19	21.45	21.14	22.00	0
		1	14	21.14	21.46	21.12	22.00	0
3	3 QPSK	8	0	20.21	20.47	20.20	21.00	1
		8	4	20.21	20.47	20.13	21.00	1
		8	7	20.17	20.49	20.16	21.00	1
		15	0	20.19	20.43	20.20	21.00	1
		1	0	20.13	20.44	20.21	21.00	1
		1	7	20.16	20.42	20.20	21.00	1
		1	14	20.15	20.45	20.13	21.00	1
3	16-QAM	8	0	19.12	19.41	19.15	20.00	2
		8	4	19.14	19.36	19.14	20.00	2
		8	7	19.20	19.34	19.19	20.00	2
		15	0	19.11	19.37	19.12	20.00	2
			LTE I	Band 66				
BW(MHz)	Modulation	RB Size	RB Offset	Condu	Conducted power (dBm)			MPR
	Frequenc	y (MHz)		1710.7	1745 1779.3		Power + Max. Tolerance	Allowed per
	Char	nel		131979	132322	132665	(dBm)	3GPP(dB)
		1	0	21.13	21.44	21.16	22.00	0
		1	2	21.11	21.51	21.16	22.00	0
		1	5	21.13	21.43	21.20	22.00	0
1.4	QPSK	3	0	21.14	21.43	21.15	22.00	0
		3	2	21.21	21.44	21.19	22.00	0
		3	3	21.18	21.43	21.19	22.00	0
		6	0	20.17	20.42	20.18	21.00	1
		1	0	20.21	20.46	20.21	21.00	1
		1	2	20.12	20.44	20.19	21.00	1
		1	5	20.13	20.45	20.16	21.00	1
1.4	16-QAM	3	0	20.14	20.43	20.21	21.00	1
		3	2	20.16	20.42	20.11	21.00	1
		3	3	20.20	20.49	20.21	21.00	1
		6	0	19.14	19.40	19.20	20.00	2

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Page: 39 of 75

#### Note:

- 1) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1 V16.6.0.
- 2) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.6.0
- 3) Testing is not required in bands or modes not intended/allowed for US operation
- 4) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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Page: 40 of 75

#### **5.3 WLAN**

			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		1	2412		17.50	17.47
	802.11b	6	2437	1Mbps	17.50	17.36
		11	2462	1	17.50	17.46
		1	2412		16.50	16.25
	802.11g	6	2437	6Mbps	16.50	16.31
		11	2462		16.50	16.22
		1	2412		16.50	16.23
	802.11n20-HT0	6	2437	MCS0	16.50	16.30
2.45GHz		11	2462		16.50	16.17
2.430112		1	2412		16.50	16.23
	802.11ac20-VHT0	6	2437	MCS0	16.50	16.29
		11	2462		16.50	16.27
		3	2422		15.50	15.16
	802.11n40-HT0	6	2437	MCS0	15.50	15.34
		9	2452		15.50	15.32
		3	2422		15.50	15.34
	802.11ac40-VHT0	6	2437	MCS0	15.50	15.28
		9	2452		15.50	15.23
	1	ŀ	Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		36	5180		16.50	16.30
	802.11a	40	5200	6Mbps	16.50	16.20
	002.11a	44	5220	Olviopa	16.50	16.27
		48	5240		16.50	16.16
		36	5180		17.50	17.34
	802.11n20-HT0	40	5200	MCS0	17.50	17.38
	002.111120-1110	44	5220		17.50	17.46
		48	5240		17.50	17.42
5.15-5.25 GHz		36	5180	]	17.50	17.18
	802.11ac20-VHT0	40	5200	MCS0	17.50	17.30
	002.11d020-V1110	44	5220		17.50	17.17
		48	5240		17.50	17.30
	802.11n40-HT0	38	5190	MCS0	16.50	16.21
	002.1111 <del>1</del> 0-1110	46	5230	10000	16.50	16.27
	802.11ac40-VHT0	38	5190	MCS0	16.50	16.26
	002.11a040-VIII0	46	5230		16.50	16.25
	802.11ac80-VHT0	42	5210	MCS0	15.50	15.26

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Page: 41 of 75

			Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		52	5260		16.50	16.16
	000.44	56	5280	1	16.50	16.33
	802.11a	60	5300	6Mbps	16.50	16.18
		64	5320	1	16.50	16.25
		52	5260		17.50	17.14
	000 44-00 LITO	56	5280	Moss	17.50	17.18
	802.11n20-HT0	60	5300	MCS0	17.50	17.32
		64	5320		17.50	17.25
5.25-5.35 GHz		52	5260		17.50	17.32
	902 11aa20 V/UT0	56	5280	MCS0	17.50	17.31
	802.11ac20-VHT0	60	5300	IVICSU	17.50	17.32
		64	5320	]	17.50	17.30
	000 44 × 40 LITO	54	5270	MCCO	16.50	16.15
	802.11n40-HT0	62	5310	MCS0	16.50	16.17
	000 44 as 40 \/LITO	54	5270	MCCO	16.50	16.15
	802.11ac40-VHT0	62	5310	MCS0	16.50	16.25
	802.11ac80-VHT0	58	5290	MCS0	15.50	15.20
		,	Ant 1			
Band	Mode	Channel	Frequency (MHz)	Data Rate	Power + Max. Tolerance (dBm)	power (dBm)
		100	5500		16.50	16.22
		120	5600	1	16.50	16.16
	802.11a	140	5700	6Mbps	16.50	16.21
		144	5720	1	16.50	16.27
		100	5500		17.50	17.31
		120	5600	1	17.50	17.21
	802.11n20-HT0	140	5700	MCS0	17.50	17.29
		144	5720	1	17.50	17.44
		100	5500	†	17.50	17.29
	000.44 003.44	120	5600	1	17.50	17.26
	802.11ac20-VHT0	140	5700	MCS0	17.50	17.30
5.6GHz		144	5720	1	17.50	17.32
		102	5510		16.50	16.28
	000 44: 40 LITO	118	5590	1 ,,,,,,,	16.50	16.28
	802.11n40-HT0	134	5670	MCS0	16.50	16.16
		142	5710	1 l	16.50	16.26
		102	5510		16.50	16.17
	000 44 - 40 1/1/170	118	5590	1 ,,,,,,,	16.50	16.30
	802.11ac40-VHT0	134	5670	MCS0	16.50	16.20
		142	5710	1	16.50	16.29
		106	5530		15.50	15.21
	802.11ac80-VHT0	122	5610	MCS0	15.50	15.20
		138	5690	1	15.50	15.22

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Page: 42 of 75

			Ant 1			
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
		149	5745		16.50	16.28
	802.11a	157	5785	6Mbps	16.50	16.16
		165	5825		16.50	16.17
	802.11n20-HT0	149	5745	MCS0	17.50	17.35
		157	5785		17.50	17.45
		165	5825		17.50	17.15
5.8GHz		149	5745		17.50	17.30
3.0GHZ	802.11ac20-VHT0	157	5785	MCS0	17.50	17.17
		165	5825		17.50	17.21
	802.11n40-HT0	151	5755	MCS0	16.50	16.22
	002.111140-1110	159	5795	IVICOU	16.50	16.20
	802.11ac40-VHT0	151	5755	MCS0	16.50	16.29
	002.11au4u-v1110	159	5795	IVICOU	16.50	16.28
	802.11ac80-VHT0	155	5775	MCS0	15.50	15.31

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Page: 43 of 75

#### 5.4 Bluetooth

			1Mbps		2Mbps		3Mbps		
Mode	Channel	Frequency (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)	
	CH 00	2402		6.22		3.02		3.08	
BR/EDR	CH 39	2441	7.00	6.35	4.00	3.13	4.00	3.16	
	CH 78	2480		6.73		3.91		3.96	

### 5.5 BLE

Mode	Channel	Frequency		GFSK
Wode	Charmer	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402		-0.43
BLE_1M	CH 19	2440	1	0.29
	CH 39	2480		0.79
Mode	Channel	Frequency		GFSK
Wode	Charmer	(MHz)	Max. Rated Avg.Power + Max. Tolerance (dBm)	Average Output Power (dBm)
	CH 00	2402		-0.12
BLE_2M	CH 19	2440	1	0.39
	CH 39	2480		0.90

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Page: 44 of 75



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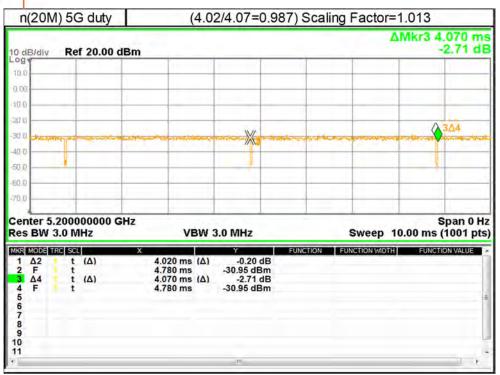
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Page: 45 of 75



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Page: 46 of 75

### **SUMMARY OF RESULTS**

#### 6.1 **Decision rules**

Reported measurement data comply with Test Methodology in section 1.1. Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

#### 6.2 **Summary of SAR Results**

### **WWAN**

V V V V / (1 4														
														i
	Bandwidth		RB	RB		Distance		Freq.	Max. Rated Avg.	Measured		Averaged SAR	over 10g (W/kg)	i
Mode	(MHz)	Modulation	Size	start	Position	(mm)	CH	(MHz)	Power + Max.	Avg. Power	Scaling			ID
	(1411 12)		Size	Start		(11111)		(ivii iz)	Tolerance (dBm)	(dBm)		Measured	Reported	i
													,	i
LTE Band 2			1	0	Back Surface	0	18700	1860	22.00	21.73	106.41%	0.263	0.280	
LTE Band 2			50	0	Back Surface	0	18700	1860	21.00	20.78	105.20%	0.252	0.265	-
LTE Band 2		1	100		Back Surface	Ö	18700	1860	21.00	20.48	112.72%	0.231	0.260	
LTE Band 2			1	0	Curve of Back Surface	0	18700	1860	22.00	21.73	106.41%	0.127	0.135	-
LTE Band 2			1	0	Top Edge	0	18700	1860	22.00	21.73	106.41%	0.233	0.248	
LTE Band 2			50	0	Top Edge	0	18700	1860	21.00	20.78	105.20%	0.176	0.185	
LTE Band 2	20MHz	QPSK	100	RB	Top Edge	0	18700	1860	21.00	20.48	112,72%	0.149	0.168	
LTE Band 2	20MHz	QPSK	1	0	Right Edge	0	18700	1860	22.00	21.73	106.41%	3.140	3.341	001
LTE Band 2			1	0	Right Edge	0	18900	1880	22.00	21.61	109.40%	3.010	3.293	
LTE Band 2			1	0	Right Edge	0	19100	1900	22.00	21.54	111.17%	2.780	3.091	
LTE Band 2			50	0	Right Edge	0	18700	1860	21.00	20.78	105.20%	2.370	2.493	
LTE Band 2			50	0	Right Edge	0	18900	1880	21.00	20.67	107.89%	2.410	2.600	
LTE Band 2			50	25	Right Edge	0	19100	1900	21.00	20.54	111.17%	2.250	2.501	
LTE Band 2			100	RB	Right Edge	0	18700	1860	21.00	20.48	112.72%	2.110	2.378	
LTE Band 4			1	0	Back Surface	0	20300	1745	22.50	22 12	109.14%	0.330	0.360	
LTE Band 4			50	25	Back Surface	0	20300	1745	21.50	22.12 21.31	104,47%	0.246	0.257	-
LTE Band 4			100		Back Surface	0	20300	1745	21.50	20.78	118.03%	0.195	0.230	
LTE Band 4			1	0	Curve of Back Surface	0	20300	1745	22.50	22.12	109 14%	0.067	0.073	
LTF Band 4			1	0	Top Edge	0	20300	1745	22.50	22.12	109 14%	0.347	0.379	
LTE Band 4			50	25	Top Edge	0	20300	1745	21.50	21.31	104,47%	0.338	0.353	
LTE Band 4			100		Top Edge	Ö	20300	1745	21.50	20.78	118.03%	0.252	0.297	-
LTE Band 4	20MHz	QPSK	1	0	Right Edge	0	20050	1720	22.50	21.78	118.03%	3.070	3.624	
LTE Band 4		1	1	0	Right Edge	0	20175	1732.5	22.50	21.86	115.88%	3.350	3.882	002
LTE Band 4		1	1	0	Right Edge	0	20300	1745	22.50	22.12	109.14%	3.310	3.613	
LTE Band 4		1	50	50	Right Edge	0	20050	1720	21.50	20.38	129.42%	2.320	3.003	
LTE Band 4		I	50	0	Right Edge	0	20175	1732.5	21.50	20.55	124.45%	2.350	2.925	
LTE Band 4		1	50	25	Right Edge	ō	20300	1745	21.50	21.31	104,47%	2.300	2.403	
LTE Band 4		1	100	RB	Right Edge	0	20300	1745	21.50	20.78	118.03%	2.220	2.620	
EIE DUID 7	·				Tugin Lugu		. 20000			20.70	110.0070	LILLO		
LTE Band 5			1	0	Back Surface	0	20525	836.5	23.00	22.74	106.17%	0.135	0.143	
LTE Band 5		I	25	25	Back Surface	0	20600	844	22.00	21.67	107.89%	0.112	0.121	
LTE Band 5		1	50		Back Surface	0	20600	844	22.00	21.53	111.43%	0.092	0.103	
LTE Band 5		1	1	0	Curve of Back Surface	0	20525	836.5	23.00	22.74	106.17%	0.124	0.132	
LTE Band 5		1	1	0	Top Edge	0	20525	836.5	23.00	22.74	106.17%	0.218	0.231	
LTE Band 5		1	25	25	Top Edge	0	20600	844	22.00	21.67	107.89%	0.293	0.316	
LTE Band 5			50	RB.	Top Edge	0	20600	844	22.00	21.53	111.43%	0.264	0.294	
LTE Band 5	10MHz	QPSK	1	0	Right Edge	0	20450	829	23.00	22.58	110.15%	0.832	0.916	
LTE Band 5			1	0	Right Edge	0	20525	836.5	23.00	22.74	106.17%	0.845	0.897	<del></del>
LTE Band 5			1	25	Right Edge	0	20600	844	23.00	22.43	114.02%	0.885	1.009	003
LTE Band 5			25	0	Right Edge	0	20450	829	22.00	21.44	113.76%	0.567	0.645	
LTE Band 5			25	25	Right Edge	0	20525	836.5	22.00	21.43	114.02%	0.559	0.637	
LTE Band 5			25	25	Right Edge	0	20600	844	22.00	21.67	107.89%	0.620	0.669	
LTE Band 5			50	RB	Right Edge	0	20600	844	22.00	21.53	111 43%	0.620	0.632	<del></del>
ETE Balld 3		1			Night Edge		20000	044	22.00	21.00	111.4370	0.307	0.032	
LTE Band 12				0	Back Surface	0	23130	711	23.00	22.68	107.65%	0.124	0.133	$\overline{}$
LTE Band 12			25	0	Back Surface	0	23130	711	22.00	21.47	112.98%	0.110	0.124	
LTE Band 12			50		Back Surface	0	23130	711	22.00	21.42	114.29%	0.089	0.102	
LTE Band 12			4	0	Curve of Back Surface	0	23130	711	23.00	22.68	107.65%	0.154	0.166	
LTE Band 12				0	Top Edge	0	23130	711	23.00	22.68	107.65%	0.523	0.563	
LTE Band 12			25	0		0	23130	711	22.00	21.47	112.98%	0.425	0.480	
LTE Band 12			25	PR U	Top Edge Top Edge	0	23130	711	22.00	21.42	114.29%	0.378	0.432	
LTE Band 12	10MHz	QPSK	4	0	Right Edge	0	23060	704	23.00	22.48	112.72%	0.576	0.452	
LTE Band 12				25		0	23095				111.72%	0.672	0.757	
LTE Band 12 LTE Band 12			1	25 0	Right Edge Right Edge	0	23095	707.5 711	23.00 23.00	22.51 22.68	111.94%	0.728	0.815	004
LTE Band 12 LTE Band 12			25	0	Right Edge	0	23060	704	22.00	21.41	114.55%	0.506	0.580	
LTE Band 12			25	0	Right Edge	0	23095	707.5	22.00	21.42	114.29%	0.508	0.581	
LTE Band 12			25	0	Right Edge	0	23130	707.5	22.00	21.42	112.29%	0.506	0.590	
LTE Band 12			25		Right Edge	0	23130	711	22.00	21.47	114.98%	0.522	0.590	
LIE Band 12			30	RD	Right Edge	0	23130	/11	22.00	21.42	114.29%	0.516	0.590	
LTE Band 13				0	Back Surface	0	23230	782	22.50	22.47	100.69%	0.135	0.136	
LTE Band 13			25	25	Back Surface	0	23230	782	21.50	21.35	100.69%	0.132	0.136	
LTE Band 13		1	25		Back Surface	0		782	21.50	21.12	103.51%	0.132	0.128	
LTE Band 13 LTE Band 13		1	4 50	0	Curve of Back Surface	0	23230 23230	782	21.50	21.12	109.14%	0.117	0.128	
LTE Band 13 LTE Band 13		1	-	0		0		782 782			100.69%			
LTE Band 13	10MHz	QPSK	25	25	Top Edge Top Edge	0	23230 23230	782 782	22.50 21.50	22.47 21.35	103.51%	0.357 0.146	0.359 0.151	
LTE Band 13		1	25		Top Edge	0	23230	782	21.50	21.12	109.14%	0.109	0.119	
LTE Band 13		1	1	0	Right Edge	0	23230	782	22.50	22.47	109.14%	0.109	0.837	005
LTE Band 13		1	25	25	Right Edge	0	23230	782	21.50	21.35	103.51%	0.686	0.837	003
LTE Band 13		1	25		Right Edge	n	23230	782	21.50	21.35	109.14%	0.466	0.509	
2.2 3000 10			. 30									2.700		
LTE Band 17		1	1	0	Back Surface	0	23800	711	22.50	22.49	100.23%	0.109	0.109	
LTE Band 17		I	25	0	Back Surface	0	23800	711	21.50	21.34	103.75%	0.106	0.110	
LTE Band 17		1	50		Back Surface	0	23800	711	21.50	21.09	109.90%	0.082	0.090	
LTE Band 17		1	1	0	Curve of Back Surface	0	23800	711	22.50	22.49	100.23%	0.149	0.149	
LTE Band 17		1	1	n	Top Edge	n	23800	711	22.50	22.49	100.23%	0.523	0.524	
LTE Band 17		I	25	0	Top Edge	0	23800	711	21.50	21.34	103.75%	0.418	0.434	
LTE Band 17			50		Top Edge	0	23800	711	21.50	21.09	109.90%	0.362	0.398	
LTE Band 17	10MHz	QPSK	1	0	Right Edge	0	23780	709	22.50	22.45	101.16%	0.720	0.728	006
LTE Band 17		I	1	0	Right Edge	0	23790	710	22.50	22.44	101.39%	0.698	0.708	-
LTE Band 17		1	1	0	Right Edge	ő	23800	711	22.50	22.49	100.23%	0.030	0.716	
LTE Band 17		1	25	12	Right Edge	ň	23780	709	21.50	21.14	108.64%	0.714	0.710	
LTE Band 17		1	25	12	Right Edge	0	23790	710	21.50	21.14	105.68%	0.510	0.539	
LTE Band 17		I	25	0	Right Edge	0	23790	711	21.50	21.26	103.75%	0.510	0.539	
LTE Band 17		1	25	RR U	Right Edge	0	23800	711	21.50	21.09	109.90%	0.517	0.578	
LIL Dalid 17			, 30	-	rugis Luge		23000		21.00	21.05	100.0070	0.020	0.370	
LTE Band 66		1		0	Back Surface	0	132322	1745	22.00	21.62	109.14%	0.342	0.373	$\overline{}$
LTE Band 66		1	50	0	Back Surface	0	132322	1745	22.00	21.62	109.14%	0.342	0.373	
LTE Band 66		I	100			0		1770			110.92%			
		1	100	0	Back Surface	0	132572	1770	21.00	20.24 21.62	119.12%	0.212 0.112	0.253	
LTE Band 66		I	-		Curve of Back Surface		132322		22.00				0.122	
LTE Band 66		1	50	0	Top Edge	0	132322	1745	22.00	21.62	109.14%	0.256	0.279	-
LTE Band 66		1	50		Top Edge	0	132572	1770	21.00	20.55	110.92%	0.297	0.329	-
LTE Band 66	20MHz	QPSK	100	50 50	Top Edge	U	132572	1770	21.00	20.24	119.12%	0.244	0.291	
LTE Band 66		I	-		Right Edge	Ü	132072	1720	22.00	21.55	110.92%	3.040	3.372	
LTE Band 66		I	<del>- ! -  </del>	0	Right Edge	0	132322	1745	22.00	21.62	109.14%	2.960	3.231	
LTE Band 66		1	50	99	Right Edge	U	132572	1770	22.00	21.46	113.24%	3.300	3.737	007
LTE Band 66		1	50 50	0	Right Edge	0	132072	1720	21.00	20.43	114.02% 116.95%	2.720	3.101 3.473	-
LTE Band 66		1	50 50	U	Right Edge		132322	1745 1770	21.00	20.32		2.970 1.840		
LTE Band 66		I		0	Right Edge	0	132572		21.00	20.55	110.92%		2.041	
LTE Band 66		L	100	IND	Right Edge	. 0	132572	1770	21.00	20.24	119.12%	1.690	2.013	

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Page: 47 of 75

### **WLAN**

Mode	Antenna	Position	Distance	СН	Freq.	Max. Rated Avg. Power + Max.	Measured Avg. Power	Duty cycle	Power	Averaged SAR	over 10g (W/kg)	ID
			(mm)	ОП	(MHz)	Tolerance (dBm)	(dBm)	scaling	scaling	Measured	Reported	D
WLAN 802.11b	Ant1	Back Surface	0	1	2412	17.50	17.47	1.01	100.69%	0.165	0.168	
WLAN 802.11b	Ant1	Curve of Back Surface	0	1	2412	17.50	17.47	1.01	100.69%	0.104	0.106	
WLAN 802.11b	Ant1	Top Edge	0	1	2412	17.50	17.47	1.01	100.69%	0.141	0.144	-
WLAN 802.11b	Ant1	Right Edge	0	1	2412	17.50	17.47	1.01	100.69%	0.001	0.001	
WLAN 802.11b	Ant1	Left Edge	0	1	2412	17.50	17.47	1.01	100.69%	0.704	0.717	800
WLAN 802.11b	Ant1	Left Edge	0	6	2437	17.50	17.36	1.01	103.28%	0.650	0.679	
WLAN 802.11b	Ant1	Left Edge	0	11	2462	17.50	17.46	1.01	100.93%	0.648	0.661	
Mode	Antenna	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 10g (W/kg)	ID
Bluetooth(GFSK)	Ant1	Back Surface	0	78	2480	7.00	6.73	1.30	106.41%	0.001	0.001	
										0.001	0.001	
Bluetooth(GFSK)	Ant1	Curve of Back Surface	0	78	2480	7.00	6.73	1.30	106.41%			
Bluetooth(GFSK)	Ant1	Top Edge	0	78	2480	7.00	6.73	1.30	106.41%	0.005	0.007	
Bluetooth(GFSK)	Ant1	Right Edge	0	78	2480	7.00	6.73	1.30	106.41%	0.001	0.001	-
Bluetooth(GFSK)	Ant1	Left Edge	0	0	2402	7.00	6.22	1.30	119.67%	0.082	0.128	009
Bluetooth(GFSK)	Ant1	Left Edge	0	39	2441	7.00	6.35	1.30	116.14%	0.081	0.122	-
Bluetooth(GFSK)	Ant1	Left Edge	0	78	2480	7.00	6.73	1.30	106.41%	0.073	0.101	
Mode	Antenna	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 10g (W/kg)	ID
WLAN 802.11n(20M) 5.2G	Ant1	Back Surface	0	44	5220	17.50	17.46	1.01	100.93%	0.086	0.088	
WLAN 802.11n(20M) 5.2G	Ant1	Curve of Back Surface	0	44	5220	17.50	17.46	1.01	100.93%	0.016	0.000	
WLAN 802.11n(20M) 5.2G	Ant1		0		5180	17.50	17.34	1.01	103.75%	0.491	0.516	
		Top Edge		36								
WLAN 802.11n(20M) 5.2G	Ant1	Top Edge	0	40	5200	17.50	17.38	1.01	102.80%	0.555	0.578	-
WLAN 802.11n(20M) 5.2G	Ant1	Top Edge	0	44	5220	17.50	17.46	1.01	100.93%	0.568	0.581	010
WLAN 802.11n(20M) 5.2G	Ant1	Top Edge	0	48	5240	17.50	17.42	1.01	101.86%	0.512	0.528	-
WLAN 802.11n(20M) 5.2G	Ant1	Right Edge	0	44	5220	17.50	17.46	1.01	100.93%	0.001	0.001	-
WLAN 802.11n(20M) 5.2G	Ant1	Left Edge	0	44	5220	17.50	17.46	1.01	100.93%	0.372	0.380	
Mode	Antenna	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Measured	over 10g (W/kg)  Reported	ID
WLAN 802.11n(20M) 5.3G	Ant1	Back Surface	0	60	5300	17.50	17.32	1.01	104.23%	0.106	0.112	-
WLAN 802.11n(20M) 5.3G	Ant1	Curve of Back Surface	0	60	5300	17.50	17.32	1.01	104.23%	0.020	0.021	-
WLAN 802.11n(20M) 5.3G	Ant1	Top Edge	0	52	5260	17.50	17.14	1.01	108.64%	0.560	0.616	
VLAN 802.11n(20M) 5.3G	Ant1	Top Edge	0	56	5280	17.50	17.18	1.01	107.65%	0.556	0.606	
VLAN 802.11n(20M) 5.3G	Ant1	Top Edge	0	60	5300	17.50	17.32	1.01	104.23%	0.584	0.617	
WLAN 802.11n(20M) 5.3G	Ant1	Top Edge	0	64	5320	17.50	17.25	1.01	105.91%	0.602	0.646	011
WLAN 802.11n(20M) 5.3G	Ant1	Right Edge	0	60	5300	17.50	17.32	1.01	104.23%	0.001	0.001	
WLAN 802.11n(20M) 5.3G	Ant1	Left Edge	0	60	5300	17.50	17.32	1.01	104.23%	0.439	0.464	-
Mode	Antenna	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 10g (W/kg)	ID
WLAN 802.11n(20M) 5.6G	Ant1	Back Surface	0	144	5720	17.50	17.44	1.01	101.39%	0.148	0.152	
VLAN 802.11n(20M) 5.6G	Ant1	Curve of Back Surface	0	144	5720	17.50	17.44	1.01	101.39%	0.039	0.040	
VLAN 802.11n(20M) 5.6G	Ant1	Top Edge	0	100	5500	17.50	17.31	1.01	104.47%	0.722	0.764	012
VLAN 802.11n(20M) 5.6G	Ant1	Top Edge	0	120	5600	17.50	17.21	1.01	106.91%	0.673	0.729	
WLAN 802.11n(20M) 5.6G	Ant1	Top Edge	0	140	5700	17.50	17.29	1.01	104.95%	0.567	0.603	
				140						0.588	0.603	
WLAN 802.11n(20M) 5.6G	Ant1	Top Edge	0		5720	17.50	17.44	1.01	101.39%			
WLAN 802.11n(20M) 5.6G	Ant1	Right Edge	0	144	5720	17.50	17.44	1.01	101.39%	0.015	0.015	-
VLAN 802.11n(20M) 5.6G	Ant1	Left Edge	0	144	5720	17.50	17.44	1.01	101.39%	0.559	0.574	
Mode	Antenna	Position	Distance (mm)	СН	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR Measured	over 10g (W/kg)  Reported	ID
WLAN 802.11n(20M) 5.8G	Ant1	Back Surface	0	157	5785	17.50	17.45	1.01	101.16%	0.125	0.128	
WLAN 802.11n(20M) 5.8G	Ant1	Curve of Back Surface	0	157	5785	17.50	17.45	1.01	101.16%	0.033	0.034	-
WLAN 802.11n(20M) 5.8G	Ant1	Top Edge	0	149	5745	17.50	17.35	1.01	103.51%	0.559	0.586	
WLAN 802.11n(20M) 5.8G WLAN 802.11n(20M) 5.8G			0	157	5785	17.50	17.35	1.01	103.51%	0.559	0.578	013
	Ant1	Top Edge										
WLAN 802.11n(20M) 5.8G	Ant1	Top Edge	0	165	5825	17.50	17.15	1.01	108.39%	0.563	0.618	
WLAN 802.11n(20M) 5.8G	Ant1	Right Edge	0	157	5785	17.50	17.45	1.01	101.16%	0.001	0.001	-
WLAN 802.11n(20M) 5.8G	Ant1	Left Edge	0	157	5785	17.50	17.45	1.01	101.16%	0.441	0.452	

#### Note:

Reported SAR = measured SAR \* Power scaling \* Duty cycle scaling

### 6.3 Reporting statements of conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

#### 6.4 Conclusion

The device is compliant because all the standalone results are less than their corresponding criteria.

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Page: 48 of 75

### 7 SIMULTANEOUS TRANSMISSION ANALYSIS

### 7.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Extremity
WWAN+BT	Yes
WLAN 2.4G+BT	Yes
WLAN 5G+BT	Yes

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Page: 49 of 75

#### 7.2 Estimated SAR calculation

According to KDB447498 D01v06 – When standalone SAR test exclusion applies to an antenna that transmits simultaneously with other antennas, the standalone SAR must be estimated according to following to determine simultaneous transmission SAR test exclusion:

Estimated SAR = 
$$\frac{\text{Max. tune up power (mW)}}{\text{Min. test separation distance(mm)}} \times \frac{\sqrt{\text{f(GHz)}}}{7.5}$$

If the minimum test separation distance is < 5mm, a distance of 5mm is used for estimated SAR calculation. When the test separation distance is >50mm, the 0.4W/kg is used for SAR-1q.

### 7.3 SPLSR evaluation and analysis

Per KDB447498D01, when the sum of SAR is larger than the limit, SAR test exclusion is determined by the SAR sum to peak location separation ratio(SPLSR).

The simultaneous transmitting antennas in each operating mode and exposure condition combination must be considered one pair at a time to determine the SAR to peak location separation ratio to qualify for test exclusion.

The ratio is determined by (SAR1 + SAR2)^1.5/Ri, rounded to two decimal digits, and must be ≤ 0.04 for all antenna pairs in the configuration to qualify for 1-g SAR test exclusion.

SAR1 and SAR2 are the highest reported or estimated SAR for each antenna in the pair, and Ri is the separation distance between the peak SAR locations for the antenna pair in mm.

When standalone test exclusion applies, SAR is estimated; the peak location is assumed to be at the feed-point or geometric center of the antenna.

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Page: 50 of 75

### **Simultaneous Transmission Combination**

				Report	ed SAR		Scenario1	Scenario2	Scenario3
			1	2	4	6	1+6	2+6	4+6
	Exposure Posit	tion	WWAN	2.4GHz WLAN Ant 1	5GHz WLAN Ant 1	Bluetooth Ant 1	Summed	Summed	Summed
			10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)	10g SAR (W/kg)
	Back Surface	0	0.280	0.168	0.152	0.001	0.281	0.169	0.153
	Top Edge	0	0.248	0.144	0.764	0.007	0.255	0.151	0.771
LTE Band 2	Curve of Back Surface	0	0.135	0.106	0.040	0.001	0.136	0.107	0.041
	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	3.341	0.001	0.015	0.001	3.342	0.002	0.016
	Back Surface	0	0.360	0.168	0.152	0.001	0.361	0.169	0.153
	Top Edge	0	0.379	0.144	0.764	0.007	0.386	0.151	0.771
LTE Band 4	Curve of Back Surface	0	0.073	0.106	0.040	0.001	0.074	0.107	0.041
	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	3.882	0.001	0.015	0.001	3.883	0.002	0.016
	Back Surface	0	0.143	0.168	0.152	0.001	0.144	0.169	0.153
	Top Edge	0	0.316	0.144	0.764	0.007	0.323	0.151	0.771
LTE Band 5	Curve of Back Surface	0	0.132	0.106	0.040	0.001	0.133	0.107	0.041
	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	1.009	0.001	0.015	0.001	1.010	0.002	0.016
	Back Surface	0	0.133	0.168	0.152	0.001	0.134	0.169	0.153
	Top Edge	0	0.563	0.144	0.764	0.007	0.570	0.151	0.771
LTE Band 12	Curve of Back Surface	0	0.166	0.106	0.040	0.001	0.167	0.107	0.041
	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	0.815	0.001	0.015	0.001	0.816	0.002	0.016
	Back Surface	0	0.137	0.168	0.152	0.001	0.138	0.169	0.153
	Top Edge	0	0.359	0.144	0.764	0.007	0.366	0.151	0.771
LTE Band 13	Curve of Back Surface	0	0.017	0.106	0.040	0.001	0.018	0.107	0.041
54.74 10	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	0.837	0.001	0.015	0.001	0.838	0.002	0.016
	Back Surface	0	0.110	0.168	0.152	0.001	0.111	0.169	0.153
	Top Edge	0	0.524	0.144	0.764	0.007	0.531	0.151	0.771
LTE Band 17	Curve of Back Surface	0	0.149	0.106	0.040	0.001	0.150	0.107	0.041
50.10 17	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	0.728	0.001	0.015	0.001	0.729	0.002	0.016
	Back Surface	0	0.373	0.168	0.152	0.001	0.374	0.169	0.153
	Top Edge	0	0.329	0.144	0.764	0.007	0.336	0.151	0.771
LTE Band 66	Curve of Back Surface	0	0.122	0.106	0.040	0.001	0.123	0.107	0.041
Dailu 00	Left Edge	0	-	0.717	0.574	0.128	-	0.845	0.702
	Right Edge	0	3.737	0.001	0.015	0.001	3.738	0.002	0.016

### 7.4 Conclusion

The simultaneous transmission is compliant because both SAR sum and/or SPLSR are less than their corresponding criteria.

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Page: 51 of 75

### **8 INSTRUMENTS LIST**

		SAR Te	st Site: SAR1		
Manufacturer	Device	Туре	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	3938	Jan/25/2022	Jan/24/2023
SPEAG	System Validation Dipole	D750V3	1015	Oct/14/2021	Oct/13/2022
SPEAG	System Validation Dipole	D835V2	4d063	Oct/18/2021	Oct/17/2022
SPEAG	System Validation Dipole	D1750V2	1008	Oct/19/2021	Oct/18/2022
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/28/2022	Apr/27/2023
SPEAG	System Validation Dipole	D2450V2	727	Apr/25/2022	Apr/24/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	Data acquisition Electronics	DAE4	547	Mar/23/2022	Mar/22/2023
SPEAG	Software	DASY 52 V52.10.4	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
R&S	Radio Communication Test	CMW 500	165070	Oct/12/2021	Oct/11/2022
Keysight	UXM 5G Wireless Test Platform	E7515B	MY60101215	Jan/21/2022	Jan/20/2023
Agilent	Dual-directional coupler	778D	MY48220468	Aug/16/2021	Aug/15/2022
Agilent	Dual-directional coupler	772D	MY46151242	Aug/16/2021	Aug/15/2022
Agilent	MXG Analog Signal Generator	N5181A	MY50144143	May/19/2022	May/18/2023
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
Anritsu	Power Meter	ML2496A	1337004	Oct/08/2021	Oct/07/2022
Anritsu	Power Sensor	MA2411B	1306052	Oct/08/2021	Oct/07/2022
R&S	Power Sensor	NRP18S	101973	Jan/22/2022	Jan/21/2023
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP130075	Oct/28/2021	Oct/27/2022

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Page: 52 of 75

### **UNCERTAINTY BUDGET**

Measurement Uncertainty evaluation template for DUT SAR test (3-6G)

		u. o		valuation terr	. p.a.c . c . b c	1	(0 00)		
A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.55%	N	1	1	1	1	6.55%	6.55%	œ
Isotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	80
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	00
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	œ
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	00
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	œ
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	00
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	00
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	00
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	œ
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	00
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	œ
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	œ
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	00
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	œ
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	00
Liquid permittivity (mea.)	0.51%	N	1	1	0.64	0.43	0.33%	0.22%	М
Liquid Conductivity (mea.)	0.61%	N	1	1	0.6	0.49	0.37%	0.30%	М
Combined standard uncertainty		RSS					11.73%	11.71%	
Expant uncertainty (95% confidence interval), K=2							23.45%	23.43%	

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Page: 53 of 75

Measurement Uncertainty evaluation template for DUT SAR test (0.3-3G)

A	С	D	е		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
lsotropy , Axial	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	√3	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	√3	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	√3	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	√3	1.732	1	1	0.58%	0.58%	8
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	8
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	8
Integration Time	2.60%	R	√3	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	√3	1.732	1	1	1.01%	1.01%	8
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	8
Probe positioner Mechanical restrictions	0.40%	R	√3	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	√3	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	√3	1.732	1	1	0.58%	0.58%	∞
Test Sample related									
Test sample positioning	2.90%	N	1	1	1	1	2.90%	2.90%	M-1
Device Holder Uncertainty	3.60%	N	1	1	1	1	3.60%	3.60%	M-1
Drift of output power	5.00%	R	√3	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	√3	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	0.38%	N	1	1	0.64	0.43	0.24%	0.16%	М
Liquid Conductivity (mea.)	0.80%	N	1	1	0.6	0.49	0.48%	0.39%	М
Combined standard uncertainty		RSS					11.43%	11.42%	
Expant uncertainty (95% confidence interval), K=2							22.86%	22.83%	

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Page: 54 of 75

### 10 SAR MEASUREMENT RESULTS

Date: 2022/7/6

ID: 001

Report No.: TESA2206000142E5

LTE Band 2 (20MHz) Product specific 10g-SAR Right Edge CH 18700 QPSK 1-0 0mm

Communication System: LTE; Frequency: 1860 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1860 MHz;  $\sigma = 1.396 \text{ S/m}$ ;  $\epsilon_r = 39.85$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.92, 7.92, 7.92); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 9.76 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.185 V/m; Power Drift = 0.03 dB

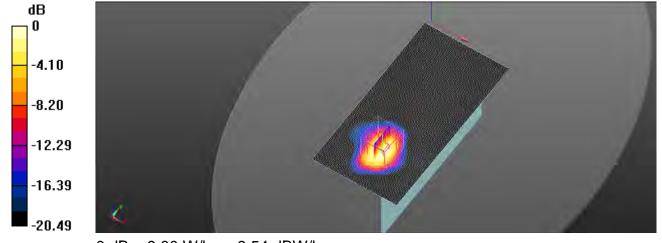
Peak SAR (extrapolated) = 12.1 W/kg

SAR(1 g) = 6.41 W/kg; SAR(10 g) = 3.14 W/kg

Smallest distance from peaks to all points 3 dB below = 8.3 mm

Ratio of SAR at M2 to SAR at M1 = 55.9%

Maximum value of SAR (measured) = 9.00 W/kg



0 dB = 9.00 W/kg = 9.54 dBW/kg

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Page: 55 of 75

Date: 2022/7/6

ID: 002

Report No.: TESA2206000142E5

LTE Band 4 (20MHz)\_Product specific 10g-SAR\_Right Edge\_CH 20175\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 1732.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1732.5 MHz;  $\sigma = 1.354 \text{ S/m}$ ;  $\epsilon_r = 39.957$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

### DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 9.88 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.123 V/m; Power Drift = 0.02 dB

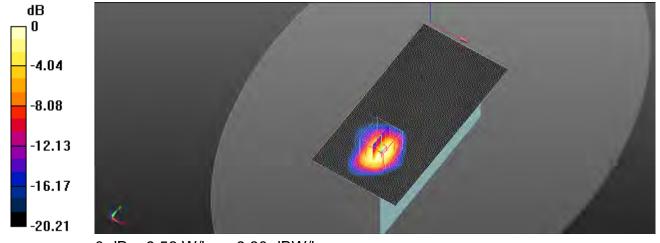
Peak SAR (extrapolated) = 12.7 W/kg

SAR(1 g) = 6.83 W/kg; SAR(10 g) = 3.35 W/kg

Smallest distance from peaks to all points 3 dB below = 8.9 mm

Ratio of SAR at M2 to SAR at M1 = 56.3%

Maximum value of SAR (measured) = 9.56 W/kg



0 dB = 9.56 W/kg = 9.80 dBW/kg

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台灣檢驗科技股份有限公司



Page: 56 of 75

Date: 2022/7/5

ID: 003

Report No.: TESA2206000142E5

LTE Band 5 (10MHz)\_Product specific 10g-SAR\_Right Edge\_CH 20600\_QPSK\_1-25\_0mm

Communication System: LTE; Frequency: 844 MHz; Duty Cycle: 1:1

Medium parameters used: f = 844 MHz;  $\sigma = 0.91$  S/m;  $\varepsilon_r = 41.372$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.29, 9.29, 9.29); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

· Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.54 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 17.04 V/m; Power Drift = -0.01 dB

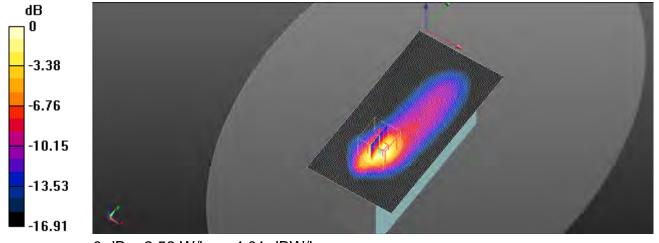
Peak SAR (extrapolated) = 3.70 W/kg

SAR(1 g) = 1.77 W/kg; SAR(10 g) = 0.885 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 51%

Maximum value of SAR (measured) = 2.52 W/kg



0 dB = 2.52 W/kg = 4.01 dBW/kg

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台灣檢驗科技股份有限公司



Page: 57 of 75

Date: 2022/7/5

ID: 004

Report No.: TESA2206000142E5

LTE Band 12 (10MHz)\_Product specific 10g-SAR\_Right Edge\_CH 23095\_QPSK\_1-

25\_0mm

Communication System: LTE; Frequency: 707.5 MHz; Duty Cycle: 1:1

Medium parameters used: f = 707.5 MHz;  $\sigma = 0.887 \text{ S/m}$ ;  $\varepsilon_r = 42.010$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.18 W/kg

**Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.40 V/m; Power Drift = 0.01 dB

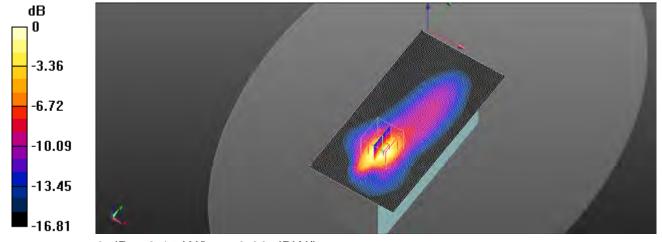
Peak SAR (extrapolated) = 3.05 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.728 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 50.2%

Maximum value of SAR (measured) = 2.15 W/kg



0 dB = 2.15 W/kg = 3.33 dBW/kg

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Page: 58 of 75

Date: 2022/7/5

ID: 005

Report No.: TESA2206000142E5

LTE Band 13 (10MHz)\_Product specific 10g-SAR\_Right Edge\_CH 23230\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 782 MHz; Duty Cycle: 1:1

Medium parameters used: f = 782 MHz;  $\sigma = 0.893$  S/m;  $\varepsilon_r = 41.625$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.60 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 19.27 V/m; Power Drift = -0.01 dB

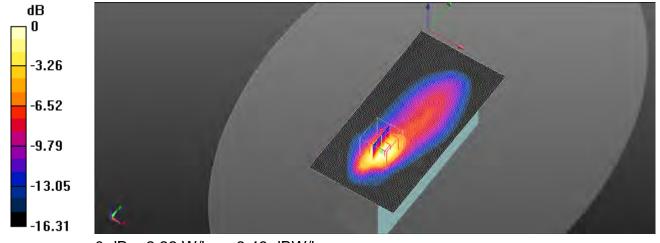
Peak SAR (extrapolated) = 3.25 W/kg

SAR(1 g) = 1.62 W/kg; SAR(10 g) = 0.831 W/kg

Smallest distance from peaks to all points 3 dB below = 9.6 mm

Ratio of SAR at M2 to SAR at M1 = 55.2%

Maximum value of SAR (measured) = 2.22 W/kg



0 dB = 2.22 W/kg = 3.46 dBW/kg

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Page: 59 of 75

Date: 2022/7/5

ID: 006

Report No.: TESA2206000142E5

LTE Band 17 (10MHz)\_Product specific 10g-SAR\_Right Edge\_CH 23780\_QPSK\_1-0\_0mm

Communication System: LTE; Frequency: 709 MHz; Duty Cycle: 1:1

Medium parameters used: f = 709 MHz;  $\sigma = 0.888$  S/m;  $\varepsilon_r = 42.005$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.24 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 15.47 V/m; Power Drift = 0.02 dB

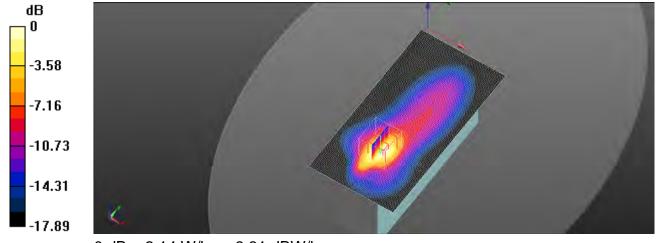
Peak SAR (extrapolated) = 3.08 W/kg

SAR(1 g) = 1.44 W/kg; SAR(10 g) = 0.720 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 52.1%

Maximum value of SAR (measured) = 2.14 W/kg



0 dB = 2.14 W/kg = 3.31 dBW/kg

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Page: 60 of 75

Date: 2022/7/6

ID: 007

Report No.: TESA2206000142E5

LTE Band 66 (20MHz)\_Product specific 10g-SAR\_Right Edge\_CH 132572\_QPSK\_1-99\_0mm

Communication System: LTE; Frequency: 1770 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1770 MHz;  $\sigma = 1.376 \text{ S/m}$ ;  $\epsilon_r = 39.897$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 9.86 W/kg

### **Zoom Scan (5x5x7)/Cube 0:** Measurement grid: dx=8mm, dy=8mm, dz=5mm

Reference Value = 1.004 V/m; Power Drift = -0.03 dB

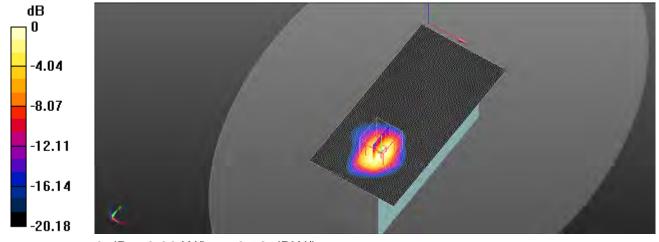
Peak SAR (extrapolated) = 12.1 W/kg

# SAR(1 g) = 6.65 W/kg; SAR(10 g) = 3.3 W/kg

Smallest distance from peaks to all points 3 dB below = 10.7 mm

Ratio of SAR at M2 to SAR at M1 = 60.2%

Maximum value of SAR (measured) = 8.96 W/kg



0 dB = 8.96 W/kg = 9.52 dBW/kg

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Page: 61 of 75

Date: 2022/7/7

ID: 008

Report No.: TESA2206000142E5

# WLAN 802.11b\_Product specific 10g-SAR\_Left Edge\_CH 1\_0mm\_Ant1

Communication System: WLAN; Frequency: 2412 MHz; Duty Cycle: 1:1.011

Medium parameters used: f = 2412 MHz;  $\sigma = 1.768 \text{ S/m}$ ;  $\epsilon_r = 39.118$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x181x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 3.02 W/kg

## **Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.9595 V/m; Power Drift = 0.02 dB

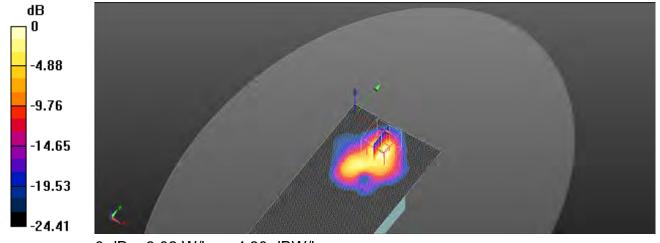
Peak SAR (extrapolated) = 4.84 W/kg

### SAR(1 g) = 1.75 W/kg; SAR(10 g) = 0.704 W/kg

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 58%

Maximum value of SAR (measured) = 3.02 W/kg



0 dB = 3.02 W/kg = 4.80 dBW/kg

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Page: 62 of 75

Date: 2022/7/7

ID: 009

Report No.: TESA2206000142E5

# Bluetooth(GFSK)\_Product specific 10g-SAR\_Left Edge\_CH 0\_0mm\_Ant1

Communication System: Bluetooth; Frequency: 2402 MHz; Duty Cycle: 1:1.302

Medium parameters used: f = 2402 MHz;  $\sigma = 1.759$  S/m;  $\epsilon_r = 39.135$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

### DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x181x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.376 W/kg

### Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 0.3700 V/m; Power Drift = -0.03 dB

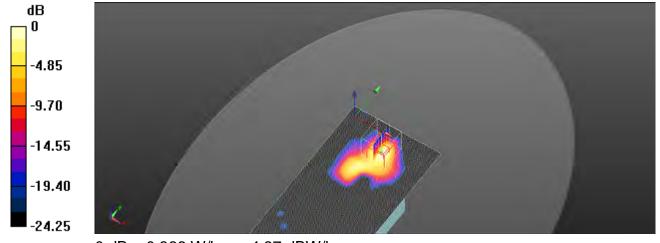
Peak SAR (extrapolated) = 0.572 W/kg

### SAR(1 q) = 0.206 W/kq; SAR(10 q) = 0.082 W/kq

Smallest distance from peaks to all points 3 dB below = 7.2 mm

Ratio of SAR at M2 to SAR at M1 = 56%

Maximum value of SAR (measured) = 0.366 W/kg



0 dB = 0.366 W/kg = -4.37 dBW/kg

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台灣檢驗科技股份有限公司



Page: 63 of 75

Date: 2022/7/8

ID: 010

Report No.: TESA2206000142E5

WLAN 802.11n(20M) 5.2G\_Product specific 10g-SAR\_Top Edge\_CH 44\_0mm\_Ant1

Communication System: WLAN; Frequency: 5220 MHz; Duty Cycle: 1:1.013

Medium parameters used: f = 5220 MHz;  $\sigma = 4.652 \text{ S/m}$ ;  $\epsilon_r = 35.813$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 3.87 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.908 V/m; Power Drift = 0.03 dB

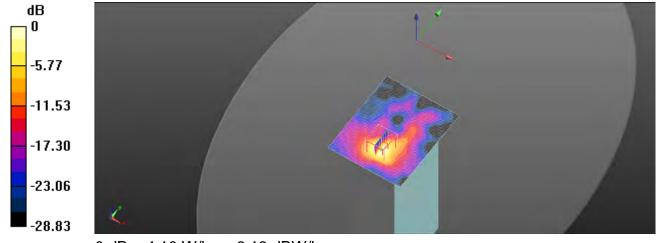
Peak SAR (extrapolated) = 7.52 W/kg

SAR(1 g) = 2 W/kg; SAR(10 g) = 0.568 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 4.10 W/kg



0 dB = 4.10 W/kg = 6.13 dBW/kg

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Page: 64 of 75

Date: 2022/7/8

ID: 011

Report No.: TESA2206000142E5

WLAN 802.11n(20M) 5.3G\_Product specific 10g-SAR\_Top Edge\_CH 64\_0mm\_Ant1

Communication System: WLAN; Frequency: 5320 MHz; Duty Cycle: 1:1.013

Medium parameters used: f = 5320 MHz;  $\sigma = 4.754 \text{ S/m}$ ;  $\varepsilon_r = 35.699$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 4.35 W/kg

Zoom Scan (7x7x12)/Cube 0: Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.545 V/m; Power Drift = -0.01 dB

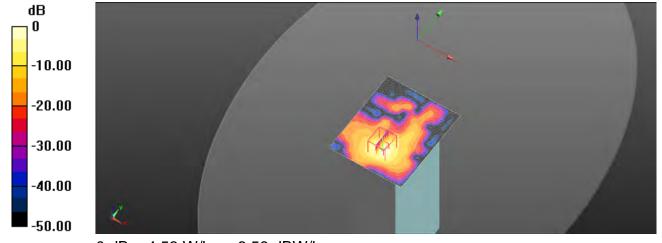
Peak SAR (extrapolated) = 8.26 W/kg

SAR(1 g) = 2.21 W/kg; SAR(10 g) = 0.602 W/kg

Smallest distance from peaks to all points 3 dB below = 6.9 mm

Ratio of SAR at M2 to SAR at M1 = 58.9%

Maximum value of SAR (measured) = 4.53 W/kg



0 dB = 4.53 W/kg = 6.56 dBW/kg

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JOJ Idiwali Etd.



Page: 65 of 75

Date: 2022/7/8

ID: 012

Report No.: TESA2206000142E5

WLAN 802.11n(20M) 5.6G\_Product specific 10g-SAR\_Top Edge\_CH 100\_0mm\_Ant1

Communication System: WLAN; Frequency: 5500 MHz; Duty Cycle: 1:1.013

Medium parameters used: f = 5500 MHz;  $\sigma = 4.939 \text{ S/m}$ ;  $\epsilon_r = 35.493$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 5.79 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 4.622 V/m; Power Drift = 0.02 dB

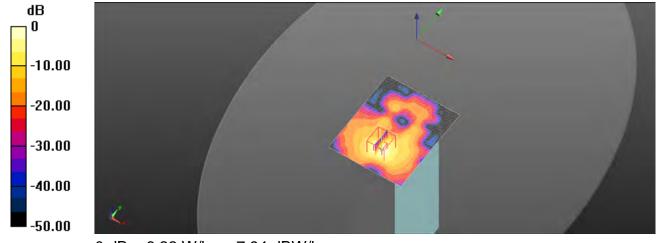
Peak SAR (extrapolated) = 11.8 W/kg

SAR(1 g) = 2.88 W/kg; SAR(10 g) = 0.722 W/kg

Smallest distance from peaks to all points 3 dB below = 6.1 mm

Ratio of SAR at M2 to SAR at M1 = 56.8%

Maximum value of SAR (measured) = 6.22 W/kg



0 dB = 6.22 W/kg = 7.94 dBW/kg

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Page: 66 of 75

Date: 2022/7/8

ID: 013

Report No.: TESA2206000142E5

WLAN 802.11n(20M) 5.8G\_Product specific 10g-SAR\_Top Edge\_CH 157\_0mm\_Ant1

Communication System: WLAN; Frequency: 5785 MHz; Duty Cycle: 1:1.013

Medium parameters used: f = 5785 MHz;  $\sigma = 5.229$  S/m;  $\varepsilon_r = 35.167$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

- Probe: EX3DV4 SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn547; Calibrated: 2022/3/23
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 4.90 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 3.771 V/m; Power Drift = 0.01 dB

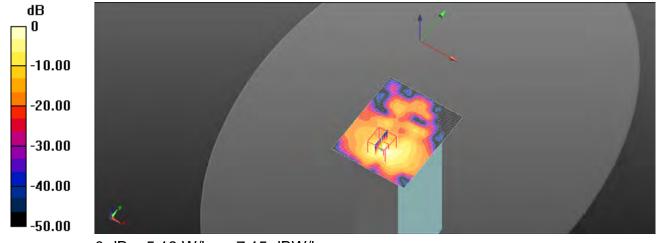
Peak SAR (extrapolated) = 11.2 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 0.564 W/kg

Smallest distance from peaks to all points 3 dB below = 5.1 mm

Ratio of SAR at M2 to SAR at M1 = 54.9%

Maximum value of SAR (measured) = 5.19 W/kg



0 dB = 5.19 W/kg = 7.15 dBW/kg

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Page: 67 of 75

#### 11 SAR SYSTEM CHECK RESULTS

Date: 2022/7/5

Report No.: TESA2206000142E5

**Dipole 750 MHz\_SN:1015** 

Communication System: CW; Frequency: 750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 750 MHz;  $\sigma = 0.89 \text{ S/m}$ ;  $\epsilon_r = 41.792$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.6, 9.6, 9.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.48 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 60.02 V/m; Power Drift = 0.02 dB

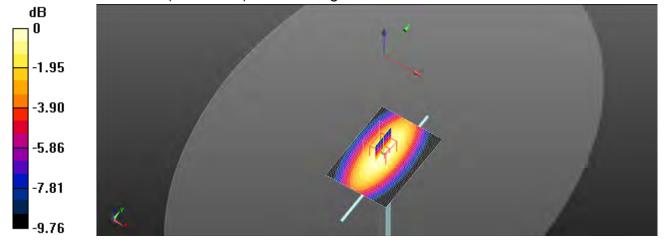
Peak SAR (extrapolated) = 2.93 W/kg

SAR(1 g) = 2.13 W/kg; SAR(10 g) = 1.43 W/kg

Smallest distance from peaks to all points 3 dB below = 11.4 mm

Ratio of SAR at M2 to SAR at M1 = 68.6%

Maximum value of SAR (measured) = 2.53 W/kg



0 dB = 2.53 W/kg = 4.02 dBW/kg

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303 Idiwan Eta.



Page: 68 of 75

Date: 2022/7/5

Report No.: TESA2206000142E5 Dipole 835 MHz SN: 4d063

Communication System: CW; Frequency: 835 MHz; Duty Cycle: 1:1

Medium parameters used: f = 835 MHz;  $\sigma = 0.907$  S/m;  $\varepsilon_r = 41.404$ ;  $\rho = 1000$  kg/m<sup>3</sup>

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 21.8°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(9.29, 9.29, 9.29); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 3.09 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 55.11 V/m; Power Drift = -0.03 dB

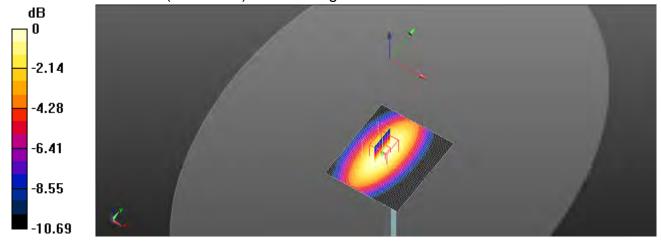
Peak SAR (extrapolated) = 3.72 W/kg

SAR(1 g) = 2.38 W/kg; SAR(10 g) = 1.54 W/kg

Smallest distance from peaks to all points 3 dB below = 19.8 mm

Ratio of SAR at M2 to SAR at M1 = 66.3%

Maximum value of SAR (measured) = 3.15 W/kg



0 dB = 3.15 W/kg = 4.98 dBW/kg

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Page: 69 of 75

Date: 2022/7/6

Report No.: TESA2206000142E5 Dipole 1750 MHz SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1750 MHz;  $\sigma = 1.364 \text{ S/m}$ ;  $\epsilon_r = 39.929$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(8.33, 8.33, 8.33); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.0 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 95.68 V/m; Power Drift = -0.02 dB

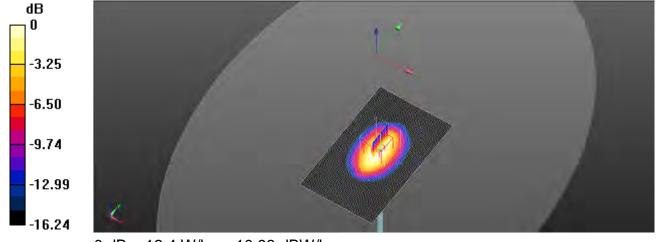
Peak SAR (extrapolated) = 15.7 W/kg

SAR(1 g) = 9.31 W/kg; SAR(10 g) = 4.97 W/kg

Smallest distance from peaks to all points 3 dB below = 10 mm

Ratio of SAR at M2 to SAR at M1 = 57.6%

Maximum value of SAR (measured) = 12.4 W/kg



0 dB = 12.4 W/kg = 10.93 dBW/kg

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Page: 70 of 75

Date: 2022/7/6

Report No. : TESA2206000142E5 Dipole 1900 MHz\_SN: 5d173

Communication System: CW; Frequency: 1900 MHz; Duty Cycle: 1:1

Medium parameters used: f = 1900 MHz;  $\sigma = 1.396 \text{ S/m}$ ;  $\epsilon_r = 39.85$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 21.6°C

### **DASY5** Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.92, 7.92, 7.92); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x71x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 15.6 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 80.75 V/m; Power Drift = 0.02 dB

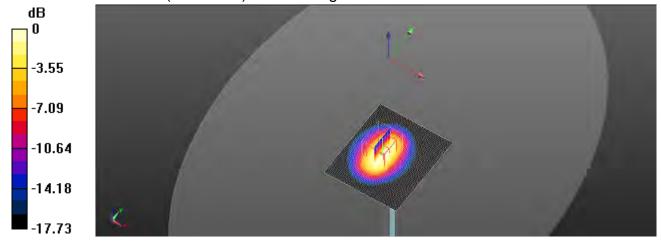
Peak SAR (extrapolated) = 18.9 W/kg

SAR(1 g) = 10.27 W/kg; SAR(10 g) = 5.39 W/kg

Smallest distance from peaks to all points 3 dB below = 10.1 mm

Ratio of SAR at M2 to SAR at M1 = 53.6%

Maximum value of SAR (measured) = 14.7 W/kg



0 dB = 14.7 W/kg = 11.66 dBW/kg

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Page: 71 of 75

Date: 2022/7/7

Report No.: TESA2206000142E5

Dipole 2450 MHz SN:727

Communication System: CW; Frequency: 2450 MHz; Duty Cycle: 1:1

Medium parameters used: f = 2450 MHz;  $\sigma = 1.8 \text{ S/m}$ ;  $\varepsilon_r = 39.05$ ;  $\rho = 1045 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 21.4°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(7.39, 7.39, 7.39); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x71x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.8 W/kg

**Zoom Scan (7x7x7)/Cube 0:** Measurement grid: dx=5mm, dy=5mm, dz=5mm

Reference Value = 107.4 V/m; Power Drift = 0.02 dB

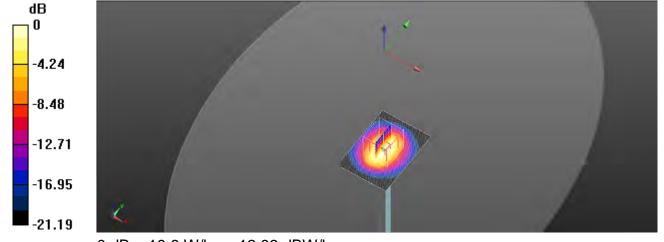
Peak SAR (extrapolated) = 26.1 W/kg

SAR(1 g) = 13.54 W/kg; SAR(10 g) = 6.54 W/kg

Smallest distance from peaks to all points 3 dB below = 9.2 mm

Ratio of SAR at M2 to SAR at M1 = 50.1%

Maximum value of SAR (measured) = 19.6 W/kg



0 dB = 19.6 W/kg = 12.93 dBW/kg

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Page: 72 of 75

Date: 2022/7/8

Report No.: TESA2206000142E5 Dipole 5250 MHz SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5250 MHz;  $\sigma = 4.683 \text{ S/m}$ ;  $\epsilon_r = 35.779$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(5.05, 5.05, 5.05); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 61.88 V/m; Power Drift = -0.03 dB

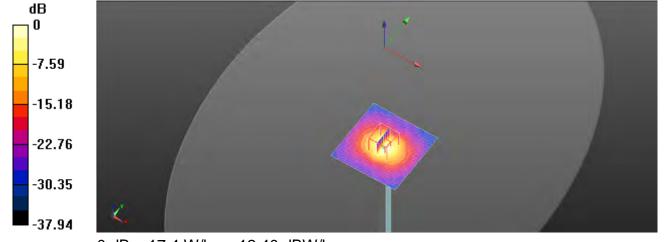
Peak SAR (extrapolated) = 33.2 W/kg

# SAR(1 g) = 8.33 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 56.1%

Maximum value of SAR (measured) = 17.4 W/kg



0 dB = 17.4 W/kg = 12.40 dBW/kg

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Page: 73 of 75

Date: 2022/7/8

Report No.: TESA2206000142E5 Dipole 5600 MHz SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5600 MHz;  $\sigma = 5.041 \text{ S/m}$ ;  $\epsilon_r = 35.379$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.6, 4.6, 4.6); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.8 W/kg

### **Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 63.00 V/m; Power Drift = 0.01 dB

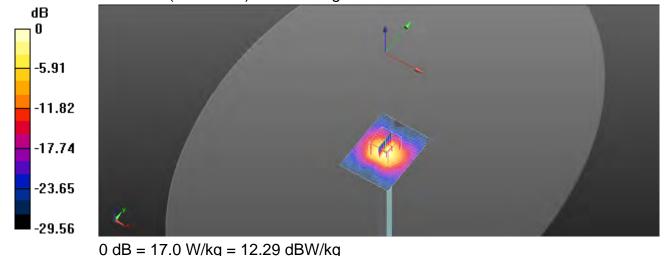
Peak SAR (extrapolated) = 34.2 W/kg

### SAR(1 g) = 8.59 W/kg; SAR(10 g) = 2.39 W/kg

Smallest distance from peaks to all points 3 dB below = 7.6 mm

Ratio of SAR at M2 to SAR at M1 = 53.4%

Maximum value of SAR (measured) = 17.0 W/kg



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Page: 74 of 75

Date: 2022/7/8

Report No.: TESA2206000142E5 Dipole 5750 MHz SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty Cycle: 1:1

Medium parameters used: f = 5750 MHz;  $\sigma = 5.193 \text{ S/m}$ ;  $\epsilon_r = 35.207$ ;  $\rho = 1000 \text{ kg/m}^3$ 

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 21.9°C

### DASY5 Configuration:

Probe: EX3DV4 - SN3938; ConvF(4.65, 4.65, 4.65); Calibrated: 2022/1/25

Sensor-Surface: 2mm (Mechanical Surface Detection)

Electronics: DAE4 Sn547; Calibrated: 2022/3/23

Phantom: ELI

DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 16.4 W/kg

**Zoom Scan (7x7x12)/Cube 0:** Measurement grid: dx=4mm, dy=4mm, dz=2mm

Reference Value = 59.83 V/m; Power Drift = -0.01 dB

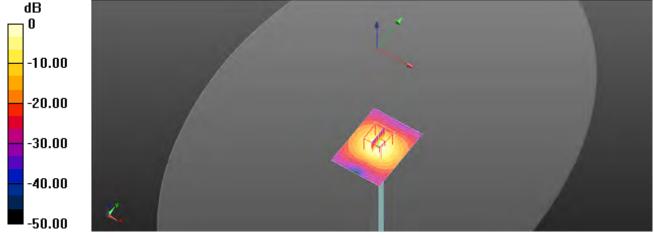
Peak SAR (extrapolated) = 33.2 W/kg

SAR(1 g) = 8.26 W/kg; SAR(10 g) = 2.33 W/kg

Smallest distance from peaks to all points 3 dB below = 7.9 mm

Ratio of SAR at M2 to SAR at M1 = 53.3%

Maximum value of SAR (measured) = 16.5 W/kg



0 dB = 16.5 W/kg = 12.19 dBW/kg

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Page: 75 of 75

### Refer to separated files for the following appendixes.

- 12.1 TESA2206000142E5 SAR\_Appendix A Photographs
- 12.2 TESA2206000142E5 SAR\_Appendix B DAE & Probe Cal. Certificate
- 12.3 TESA2206000142E5 SAR\_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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