

RF Exposure report



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

Product Name	Portable Tablet Computer
Brand Name	Lenovo
Model No.	TB350XU
Applicant	Lenovo (Shanghai) Electronics Technology Co., Ltd. Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone
Standards	IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID	O57TB350XU
Date of EUT Receipt	Jul. 12, 2022
Date of Test(s)	Aug. 10, 2022 ~ Aug. 19, 2022
Date of Issue	Aug. 31, 2022

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

Remarks:

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 / Ruby Ou	PM / Kiki Lin	Approved By / John Yeh
Ruby Ou	Kiki Lin	John Yeh

Date: Aug. 26, 2022

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2207000200ES	00	Initial creation of document	Aug. 26, 2022	Ruby Ou	*
TESA2207000200ES	01	1. Modify The block diagram of system check in page 15. 2. Add appendix D	Aug. 31, 2022	Ruby Ou	

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.

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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

KDB616217D04v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D05Av01r02

KDB248227D01v02r01

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1.2 Description of EUT

Product Name	Portable Tablet Computer	
Brand Name	Lenovo	
Model No.	TB350XU	
FCC ID	O57TB350XU	
Mode	GSM GPRS EDGE RMC 12.2Kbps HSDPA HSUPA HSPA+ DC-HSDPA LTE: QPSK, 16QAM, 64QAM WLAN: 802.11a/b/g/n/ac HT20/HT40/VHT20/VHT40/VHT80 Bluetooth BR/EDR/LE	
Duty Cycle	GSM (DTM multi class B)	1/8.3
	GPRS (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	EDGE (support multi class 12 max)	1/2 (1Dn4UP) 1/2.76 (1Dn3UP) 1/4.1 (1Dn2UP) 1/8.3 (1Dn1UP)
	WCDMA	1
	LTE FDD	1
	LTE TDD	0.633
	WLAN802.11	Please refer to page 170-173
	Bluetooth	0.765
Supported radios (TX Frequency Range, MHz)	GSM850	824-849
	GSM1900	1850-1910
	WCDMA Band II	1850-1910
	WCDMA Band IV	1710-1755

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Supported radios (TX Frequency Range, MHz)	WCDMA Band V	824-849
	LTE FDD Band 2	1850-1910
	LTE FDD Band 4	1710-1755
	LTE FDD Band 5	824-849
	LTE FDD Band 7	2500-2570
	LTE FDD Band 12	699-716
	LTE FDD Band 13	777-787
	LTE FDD Band 25	1850-1915
	LTE FDD Band 26	814-849
	LTE TDD Band 38	2570-2620
	LTE TDD Band 41	2496-2690
	LTE FDD Band 66	1710-1780
	802.11 b/g/n	2.4GHz (2400.0 – 2483.5 MHz)
	802.11a/n/ac	5.2GHz (5150.0 – 5350.0 MHz) 5.6GHz (5470.0 – 5725.0 MHz) 5.8GHz (5725.0 – 5850.0 MHz)
Bluetooth 5.2	2.4GHz (2400.0 – 2483.5 MHz)	

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1.3 Maximum value

Summary of Maximum SAR Value	
Mode	Highest SAR 1g Body (W/kg)
LTE_Band 12	1.19

Summary of Maximum SAR	
Mode	Highest SAR 1g Body (W/kg)
Bluetooth(GFSK)	0.17
2.4G WLAN	0.52
5G WLAN	0.77

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2 MEASUREMENT SYSTEM

2.1 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	1F, No. 8, Alley 15, Lane 120, Sec. 1, NeiHu Road, NeiHu District, Taipei City, 11493, Taiwan.	SAR 2	TW0029	TW3702
		SAR 6		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

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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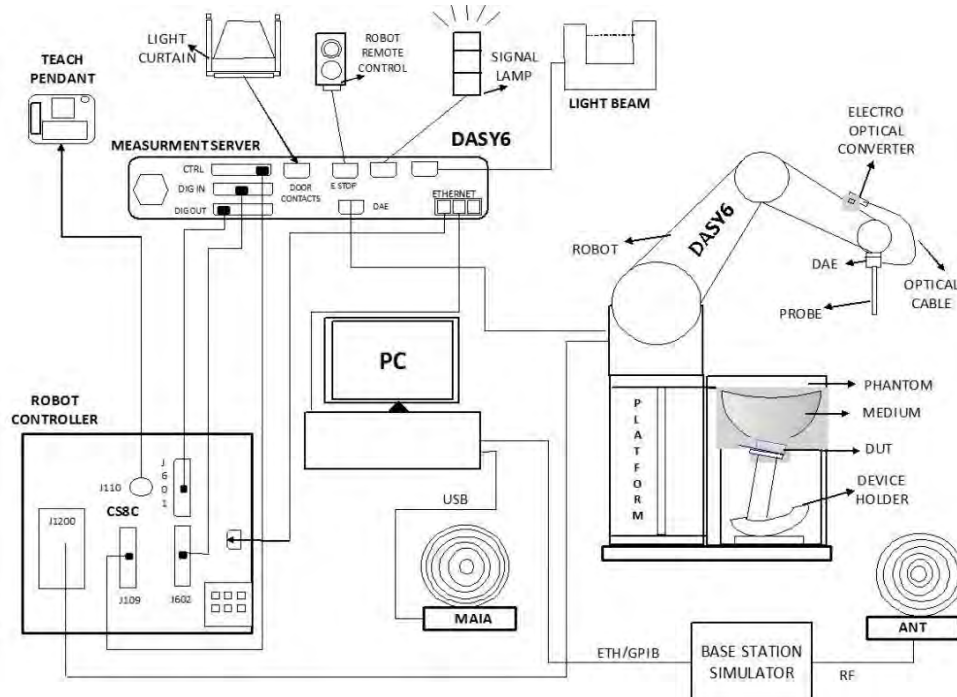
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2.2 SAR System

Block Diagram (DASY6)

The DASY system used for performing compliance tests consists of the following items:




- A standard high precision 6-axis robot with controller, teach pendant and software. An arm extension for accommodating the data acquisition electronics (DAE).
- An isotropic field probe optimized and calibrated for the targeted measurement.
- A data acquisition electronics (DAE) which performs the signal amplification, signal multiplexing, AD-conversion, offset measurements, mechanical surface detection, collision detection, etc. The unit is battery powered with standard or rechargeable batteries. The signal is optically transmitted to the EOC.
- The Electro-optical converter (EOC) performs the conversion from optical to electrical signals for the digital communication to the DAE. To use optical surface detection, a special version of the EOC is required. The EOC signal is transmitted to the measurement server.
- The function of the measurement server is to perform the time critical tasks such as signal filtering, control of the robot operation and fast movement interrupts.
- The Light Beam used is for probe alignment. This improves the (absolute) accuracy of the probe positioning.
- A computer running Windows 10 and the DASY6 software.
- Remote control and teach pendant as well as additional circuitry for robot safety such as warning lamps, etc.
- The phantom, the device holder and other accessories according to the targeted measurement.

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EX3DV4 E-Field Probe


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 750/835/1750/1900/2450/2600/5250/5600/5750 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 Range	10 µW/g to > 100 mW/g 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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PHANTOM (ELI)

Model	ELI	
Construction	The ELI phantom is used for compliance testing of handheld and body-mounted wireless devices in the frequency range of 30 MHz to 6 GHz. ELI is fully compatible with the IEC 62209-2 standard and all known tissue simulating liquids. ELI has been optimized regarding its performance and can be integrated into our standard phantom tables. A cover prevents evaporation of the liquid. Reference markings on the phantom allow installation of the complete setup, including all predefined phantom positions and measurement grids, by teaching three points. The phantom is compatible with all SPEAG dosimetric probes and dipoles.	
Shell Thickness	2 ± 0.2 mm	
Filling Volume	Approx. 30 liters	
Dimensions	Major axis: 600 mm Minor axis: 400 mm	

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.	 <p style="text-align: center;">Device Holder</p>
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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

Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
704	22.6°C	42.145	0.887	41.627	0.882	-1.23%	-0.56%	$\pm 5\%$	Aug. 10, 2022
707.5	22.6°C	42.127	0.887	41.625	0.883	-1.19%	-0.47%	$\pm 5\%$	Aug. 10, 2022
711	22.6°C	42.108	0.887	41.586	0.884	-1.24%	-0.38%	$\pm 5\%$	Aug. 10, 2022
750	22.6°C	41.900	0.890	41.380	0.886	-1.24%	-0.45%	$\pm 5\%$	Aug. 10, 2022
782	22.6°C	41.749	0.894	41.232	0.889	-1.24%	-0.53%	$\pm 5\%$	Aug. 10, 2022
821.5	22.3°C	41.564	0.898	41.077	0.894	-1.17%	-0.49%	$\pm 5\%$	Aug. 11, 2022
824.2	22.3°C	41.551	0.899	41.069	0.895	-1.16%	-0.41%	$\pm 5\%$	Aug. 11, 2022
826.4	22.3°C	41.540	0.899	41.042	0.896	-1.20%	-0.33%	$\pm 5\%$	Aug. 11, 2022
829	22.3°C	41.528	0.899	41.038	0.896	-1.18%	-0.37%	$\pm 5\%$	Aug. 11, 2022
831.5	22.3°C	41.516	0.900	41.027	0.897	-1.18%	-0.29%	$\pm 5\%$	Aug. 11, 2022
835	22.3°C	41.500	0.900	41.022	0.898	-1.15%	-0.22%	$\pm 5\%$	Aug. 11, 2022
836.5	22.3°C	41.500	0.902	41.021	0.898	-1.15%	-0.40%	$\pm 5\%$	Aug. 11, 2022
836.6	22.3°C	41.500	0.902	41.020	0.898	-1.16%	-0.41%	$\pm 5\%$	Aug. 11, 2022
841.5	22.3°C	41.500	0.907	41.019	0.902	-1.16%	-0.55%	$\pm 5\%$	Aug. 11, 2022
844	22.3°C	41.500	0.910	41.010	0.905	-1.18%	-0.52%	$\pm 5\%$	Aug. 11, 2022
846.6	22.3°C	41.500	0.912	40.994	0.908	-1.22%	-0.49%	$\pm 5\%$	Aug. 11, 2022
848.8	22.3°C	41.500	0.915	40.993	0.911	-1.22%	-0.42%	$\pm 5\%$	Aug. 11, 2022
1712.4	22.6°C	40.125	1.350	40.366	1.354	0.60%	0.30%	$\pm 5\%$	Aug. 12, 2022
1720	22.6°C	40.114	1.354	40.359	1.358	0.61%	0.27%	$\pm 5\%$	Aug. 12, 2022
1732.4	22.6°C	40.107	1.361	40.335	1.365	0.57%	0.30%	$\pm 5\%$	Aug. 12, 2022
1732.5	22.6°C	40.096	1.361	40.317	1.366	0.55%	0.34%	$\pm 5\%$	Aug. 12, 2022
1745	22.6°C	40.079	1.369	40.307	1.372	0.57%	0.25%	$\pm 5\%$	Aug. 12, 2022
1750	22.6°C	40.071	1.371	40.296	1.375	0.56%	0.26%	$\pm 5\%$	Aug. 12, 2022
1752.6	22.6°C	40.068	1.373	40.290	1.377	0.55%	0.30%	$\pm 5\%$	Aug. 12, 2022
1770	22.6°C	40.043	1.383	40.287	1.387	0.61%	0.30%	$\pm 5\%$	Aug. 12, 2022
1850.2	22.8°C	40.000	1.400	40.243	1.402	0.61%	0.14%	$\pm 5\%$	Aug. 13, 2022
1852.4	22.8°C	40.000	1.400	40.236	1.402	0.59%	0.14%	$\pm 5\%$	Aug. 13, 2022
1860	22.8°C	40.000	1.400	40.224	1.403	0.56%	0.21%	$\pm 5\%$	Aug. 13, 2022
1880	22.8°C	40.000	1.400	40.220	1.404	0.55%	0.29%	$\pm 5\%$	Aug. 13, 2022
1882.5	22.8°C	40.000	1.400	40.215	1.405	0.54%	0.36%	$\pm 5\%$	Aug. 13, 2022
1900	22.8°C	40.000	1.400	40.212	1.406	0.53%	0.43%	$\pm 5\%$	Aug. 13, 2022
1905	22.8°C	40.000	1.400	40.204	1.407	0.51%	0.50%	$\pm 5\%$	Aug. 13, 2022
1907.6	22.8°C	40.000	1.400	40.203	1.408	0.51%	0.57%	$\pm 5\%$	Aug. 13, 2022
1909.8	22.8°C	40.000	1.400	40.201	1.408	0.50%	0.57%	$\pm 5\%$	Aug. 13, 2022

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Measured Frequency (MHz)	Liquid Temp. (°C)	Target Dielectric Constant, ϵ_r	Target Conductivity, σ (S/m)	Measured Dielectric Constant, ϵ_r	Measured Conductivity, σ (S/m)	% dev ϵ_r	% dev σ	Limit	Measurement Date
2402	22.6°C	39.282	1.757	39.750	1.773	1.19%	0.88%	± 5%	Aug. 14, 2022
2412	22.6°C	39.265	1.766	39.721	1.782	1.16%	0.89%	± 5%	Aug. 14, 2022
2437	22.6°C	39.222	1.788	39.713	1.805	1.25%	0.92%	± 5%	Aug. 14, 2022
2441	22.6°C	39.215	1.792	39.689	1.807	1.21%	0.84%	± 5%	Aug. 14, 2022
2450	22.6°C	39.200	1.800	39.686	1.817	1.24%	0.94%	± 5%	Aug. 14, 2022
2462	22.6°C	39.184	1.813	39.650	1.828	1.19%	0.84%	± 5%	Aug. 14, 2022
2480	22.6°C	39.160	1.832	39.642	1.848	1.23%	0.87%	± 5%	Aug. 14, 2022
2506	22.5°C	39.125	1.860	39.603	1.876	1.22%	0.87%	± 5%	Aug. 15, 2022
2510	22.5°C	39.120	1.864	39.574	1.882	1.16%	0.97%	± 5%	Aug. 15, 2022
2535	22.5°C	39.087	1.891	39.571	1.908	1.24%	0.92%	± 5%	Aug. 15, 2022
2549.5	22.5°C	39.067	1.906	39.557	1.924	1.25%	0.94%	± 5%	Aug. 15, 2022
2560	22.5°C	39.053	1.917	39.542	1.935	1.25%	0.92%	± 5%	Aug. 15, 2022
2580	22.5°C	39.027	1.939	39.511	1.955	1.24%	0.84%	± 5%	Aug. 15, 2022
2593	22.5°C	39.009	1.953	39.477	1.970	1.20%	0.89%	± 5%	Aug. 15, 2022
2595	22.5°C	39.007	1.955	39.471	1.971	1.19%	0.84%	± 5%	Aug. 15, 2022
2600	22.5°C	39.000	1.960	39.468	1.978	1.20%	0.92%	± 5%	Aug. 15, 2022
2610	22.5°C	38.988	1.971	39.467	1.989	1.23%	0.91%	± 5%	Aug. 15, 2022
2636.5	22.5°C	38.954	2.000	39.402	2.019	1.15%	0.94%	± 5%	Aug. 15, 2022
2680	22.5°C	38.900	2.048	39.367	2.067	1.20%	0.93%	± 5%	Aug. 15, 2022
2506	22.2°C	39.125	1.860	39.603	1.876	1.22%	0.87%	± 5%	Aug. 16, 2022
2510	22.2°C	39.120	1.864	39.593	1.880	1.21%	0.86%	± 5%	Aug. 16, 2022
2535	22.2°C	39.087	1.891	39.544	1.908	1.17%	0.92%	± 5%	Aug. 16, 2022
2549.5	22.2°C	39.067	1.906	39.540	1.924	1.21%	0.94%	± 5%	Aug. 16, 2022
2560	22.2°C	39.053	1.917	39.510	1.934	1.17%	0.87%	± 5%	Aug. 16, 2022
2580	22.2°C	39.027	1.939	39.503	1.956	1.22%	0.89%	± 5%	Aug. 16, 2022
2593	22.2°C	39.009	1.953	39.497	1.970	1.25%	0.89%	± 5%	Aug. 16, 2022
2595	22.2°C	39.007	1.955	39.471	1.972	1.19%	0.89%	± 5%	Aug. 16, 2022
2600	22.2°C	39.000	1.960	39.460	1.977	1.18%	0.87%	± 5%	Aug. 16, 2022
2610	22.2°C	38.988	1.971	39.451	1.989	1.19%	0.91%	± 5%	Aug. 16, 2022
2636.5	22.2°C	38.954	2.000	39.434	2.017	1.23%	0.84%	± 5%	Aug. 16, 2022
2680	22.2°C	38.900	2.048	39.359	2.066	1.18%	0.88%	± 5%	Aug. 16, 2022
5180	22.6°C	36.020	4.639	36.531	4.692	1.42%	1.14%	± 5%	Aug. 17, 2022
5240	22.6°C	35.960	4.700	36.478	4.751	1.44%	1.09%	± 5%	Aug. 17, 2022
5250	22.6°C	35.950	4.710	36.453	4.760	1.40%	1.06%	± 5%	Aug. 17, 2022
5300	22.6°C	35.900	4.760	36.406	4.814	1.41%	1.13%	± 5%	Aug. 17, 2022
5510	22.9°C	35.635	4.976	36.152	5.030	1.45%	1.10%	± 5%	Aug. 18, 2022
5590	22.9°C	35.515	5.060	35.998	5.116	1.36%	1.12%	± 5%	Aug. 18, 2022
5600	22.9°C	35.500	5.070	36.008	5.124	1.43%	1.07%	± 5%	Aug. 18, 2022
5670	22.9°C	35.430	5.140	35.930	5.198	1.41%	1.13%	± 5%	Aug. 18, 2022
5750	22.4°C	35.350	5.220	35.854	5.275	1.43%	1.05%	± 5%	Aug. 19, 2022
5755	22.4°C	35.345	5.225	35.843	5.285	1.41%	1.15%	± 5%	Aug. 19, 2022
5795	22.4°C	35.305	5.265	35.796	5.322	1.39%	1.08%	± 5%	Aug. 19, 2022

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3.4 The composition of the tissue simulating liquid:

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

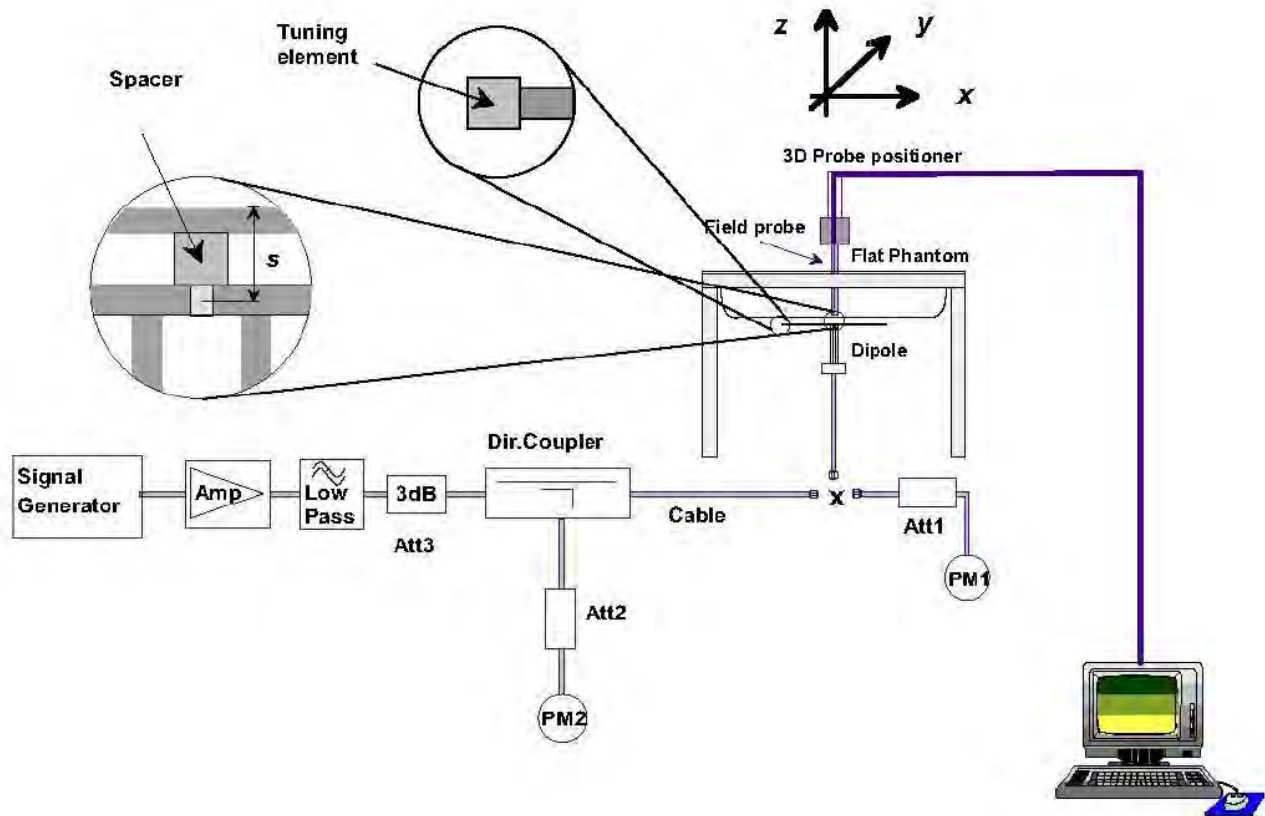
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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 SAR values.

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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3.6 System check results

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=250mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D750V3	1015	750	8.51	1.94	7.76	-8.81	± 10%	Aug.10,2022
D835V2	4d063	835	9.64	2.32	9.28	-3.73	± 10%	Aug.11,2022
D1750V2	1008	1750	36.6	9.14	36.56	-0.11	± 10%	Aug.12,2022
D1900V2	5d173	1900	39.6	9.98	39.92	0.81	± 10%	Aug.13,2022
D2450V2	727	2450	52.8	13.3	53.2	0.76	± 10%	Aug.14,2022
D2600V2	1005	2600	56.8	13.9	55.6	-2.11	± 10%	Aug.15,2022
D2600V2	1005	2600	56.8	13.9	55.6	-2.11	± 10%	Aug.16,2022

Validation Kit	S/N	Frequency (MHz)	1W Target 1g-SAR (W/kg)	pin=100mW Measured 1g-SAR (W/kg)	Normalized to 1W 1g-SAR (W/kg)	Deviation (%)	Limit	Measurement Date
D5GHzV2	1023	5250	81	8.74	87.4	7.90	± 10%	Aug.17,2022
D5GHzV2	1023	5600	84.4	8.44	84.4	0.00	± 10%	Aug.18,2022
D5GHzV2	1023	5750	81	8.09	80.9	-0.12	± 10%	Aug.19,2022

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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.

General: 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).

GSM: SAR test reduction for GPRS/EDGE mode is determined by the source-based time-averaged output power. The data mode with highest specified time-averaged output power should be tested for SAR compliance.

UMTS (HSDPA): The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$

Note 2: CM = 1 for $\beta_c/\beta_a = 12/15$, $\beta_{hs}/\beta_c = 24/15$.

Note 3: For subtest 2 the β_c/β_a ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_a = 15/15$.

UMTS (HSPA): The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is ≤ ¼ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6

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procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

Sub-test	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (codes)	CM ⁽²⁾ (dB)	MPR (dB)	AG ⁽⁴⁾ Index	E-TFCI
1	11/15 ⁽³⁾	15/15 ⁽³⁾	64	11/15 ⁽³⁾	22/15	209/225	1039/225	4	1	1.0	0.0	20	75
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	4	2	2.0	1.0	15	92
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71
5	15/15 ⁽⁴⁾	15/15 ⁽⁴⁾	64	15/15 ⁽⁴⁾	30/15	24/15	134/15	4	1	1.0	0.0	21	81

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 8 \Leftrightarrow A_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$.
 Note 2: CM = 1 for $\beta_c/\beta_a=12/15$, $\beta_{hs}/\beta_c=24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.
 Note 3: For subtest 1 the β_c/β_a ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_a = 15/15$.
 Note 4: For subtest 5 the β_c/β_a ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_a = 15/15$.
 Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.
 Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

UMTS (HSPA+): The 3G SAR test reduction procedure is applied to HSPA+ with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA+) is $\leq 1/4$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA+). The following 1 sub-test was completed according to Release 7 procedures in section 5.2 of 3GPP TS34.121. A summary of these settings are illustrated below:

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM

Sub-test	β_c ⁽³⁾	β_a ⁽³⁾	β_{HS} ⁽¹⁾	β_{ec} ⁽³⁾	β_{ed1} ⁽²⁾ (2xSF2) (Note 4)	β_{ed2} ⁽²⁾ (2xSF4) (Note 4)	CM ⁽²⁾ (dB) (Note 2)	MPR ⁽²⁾ (dB) (Note 2)	AG ⁽⁴⁾ Index (Note 4)	E-TFCI (Note 5)	E-TFCI (boost)
1	1	0	30/15	30/15	$\beta_{ed1}: 30/15$ $\beta_{ed2}: 30/15$	$\beta_{ed3}: 24/15$ $\beta_{ed4}: 24/15$	3.5	2.5	14	105	105

Note 1: Δ_{ACK} , Δ_{NACK} and $\Delta_{CQI} = 30/15$ with $\beta_{hs} = 30/15 * \beta_c$.
 Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $MPR = \text{MAX}(CM-1, 0)$.
 Note 3: DPDCH is not configured, therefore the β_s is set to 1 and $\beta_a = 0$ by default.
 Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.
 Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

UMTS (DC-HSDPA): The 3G SAR test reduction procedure is applied to DC-HSDPA with 12.2 kbps RMC as the primary mode. Power is measured for DC-HSDPA according to the H-Set 12, FRC configuration in Table C.8.1.12 of 3GPP TS 34.121-1 to determine SAR test reduction. A primary and a secondary serving HS-DSCH Cell are required to perform the power measurement and for the results to be acceptable. Since the maximum output power in a secondary mode (DC-HSDPA) is $\leq 1/4$ dB higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (DC-HSDPA). The following tests were completed according to procedures in section 7.3.13 of 3GPP TS 34.108 v9.5.0. A summary of these setting are illustrated below:

The configurations of the fixed reference channels for HSDPA RF tests are described in 3GPP TS 34.121, annex C for FDD and 3GPP TS 34.122

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Table C.8.1.12: Fixed Reference Channel H-Set 12

Parameter	Unit	Value
Nominal Avg. Inf. Bit Rate	kbps	60
Inter-TTI Distance	TTI's	1
Number of HARQ Processes	Processes	6
Information Bit Payload (N_{INF})	Bits	120
Number Code Blocks	Blocks	1
Binary Channel Bits Per TTI	Bits	960
Total Available SML's in UE	SML's	19200
Number of SML's per HARQ Proc.	SML's	3200
Coding Rate		0.15
Number of Physical Channel Codes	Codes	1
Modulation		QPSK
<p>Note 1: The RMC is intended to be used for DC-HSDPA mode and both cells shall transmit with identical parameters as listed in the table.</p> <p>Note 2: Maximum number of transmission is limited to 1, i.e., retransmission is not allowed. The redundancy and constellation version 0 shall be used.</p>		

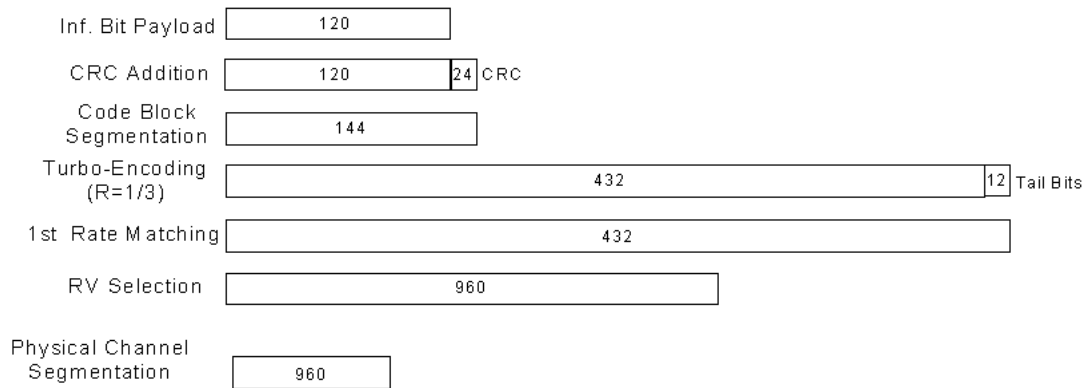


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

The following 4 sub-tests for HSDPA were completed according to Release 8 procedures in section 5.2 of 3GPP TS34.121. A summary of subtest settings are illustrated below:

Sub-test	β_c	β_a	β_a (SF)	β_c/β_a	$\beta_{hs}^{(1)}$	CM (dB) ⁽²⁾
1	2/15	15/15	64	2/15	4/15	0.0
2	12/15 ⁽³⁾	15/15 ⁽³⁾	64	12/15 ⁽³⁾	24/15	1.0
3	15/15	8/15	64	15/8	30/15	1.5
4	15/15	4/15	64	15/4	30/15	1.5

Note 1: $\Delta_{ACK}, \Delta_{NACK}$ and $\Delta_{CQI} = 8 \Leftrightarrow \Delta_{hs} = \beta_{hs}/\beta_c = 30/15 \Leftrightarrow \beta_{hs} = 30/15 * \beta_c$
 Note 2: CM = 1 for $\beta_c/\beta_a = 12/15, \beta_{hs}/\beta_c = 24/15$.
 Note 3: For subtest 2 the β_c/β_a ratio of 12/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 11/15$ and $\beta_a = 15/15$.

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.

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- 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
 - 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 $> \frac{1}{2}$ 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 $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the

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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 tabulated as below.

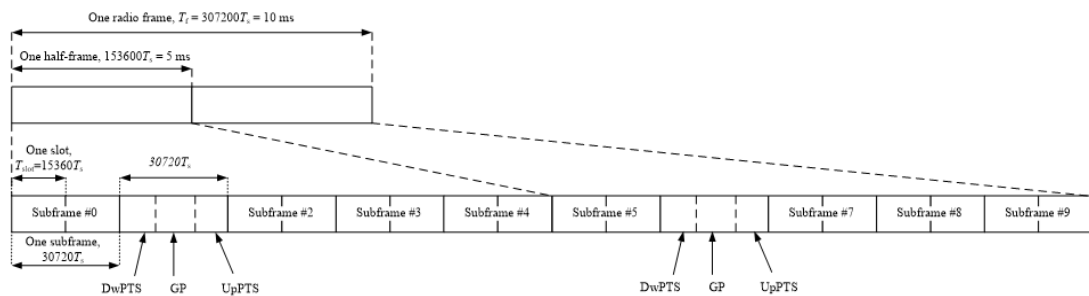


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

Special subframe configuration n	Normal cyclic prefix in downlink			Extended cyclic prefix in downlink		
	DwPTS	UpPTS		DwPTS	UpPTS	
		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink		Normal cyclic prefix in uplink	Extended cyclic prefix in uplink
0	$6592 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$	$7680 \cdot T_s$	$(1+X) \cdot 2192 \cdot T_s$	$(1+X) \cdot 2560 \cdot T_s$
1	$19760 \cdot T_s$			$20480 \cdot T_s$		
2	$21952 \cdot T_s$			$23040 \cdot T_s$		
3	$24144 \cdot T_s$			$25600 \cdot T_s$		
4	$26336 \cdot T_s$			$7680 \cdot T_s$		
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			-		
9	$13168 \cdot T_s$			-		

Table 4.2-2: Uplink-downlink configurations

Uplink-downlink configuration	Downlink-to-Uplink Switch-point periodicity	Subframe number									
		0	1	2	3	4	5	6	7	8	9
0	5 ms	D	S	U	U	U	D	S	U	U	U
1	5 ms	D	S	U	U	D	D	S	U	U	D
2	5 ms	D	S	U	D	D	D	S	U	D	D
3	10 ms	D	S	U	U	U	D	D	D	D	D
4	10 ms	D	S	U	U	D	D	D	D	D	D
5	10 ms	D	S	U	D	D	D	D	D	D	D
6	5 ms	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%.

LTE downlink CA: The device supports the carrier aggregation in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum output power is measured with downlink carrier aggregation active, only for the channel with highest measured maximum output power when downlink carrier aggregation is inactive, to confirm that when downlink carrier aggregation is active uplink maximum output power remains within the specified tune-up tolerance limits and not more than 1/4 dB higher than the maximum output power measured when downlink carrier aggregation inactive. The downlink channels selected to perform the uplink power measurement must satisfy 3GPP channel spacing (5.4.1A of 3GPP TS 36.521 or equivalent) and channel bandwidth (5.4.2A) requirements. The nominal channel spacing is determined by $[BW1 + BW2 - 0.1 \cdot |BW1 - BW2|] / 2$ MHz, where BW1 and BW2 are the channel bandwidths of the CC in a 2-CC aggregation configuration. The downlink PCC channel should be paired with the uplink channel

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according to normal configurations, as if there is no carrier aggregation. The downlink SCC should be adjacent to the PCC and remain within the downlink transmission band for contiguous intra-band CA. For non-contiguous intra-band CA, the SCC should be selected to provide maximum separation from the PCC and must remain fully within the downlink transmission band. For inter-band CA, the SCC should be near the middle of its transmission band. When downlink carrier aggregation is active uplink maximum output power remain within the specified tune-up tolerance limits and not more than $\frac{1}{4}$ dB higher than the maximum output power measured when downlink carrier aggregation inactive, so SAR evaluation is not required for downlink carrier aggregation.

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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4.3 Test position

Tablet mode SAR test position (0mm)

For full-size tablet, according to KDB 616217 D04, SAR evaluation is required for back surface and edges of the devices. The back surface and edges of the tablet are tested with the tablet touching the phantom. Exposures from antennas through the front surface of the display section of a tablet are generally limited to the user's hands. Exposures to hands for typical consumer transmitters used in tablets are not expected to exceed the extremity SAR limit; therefore, SAR evaluation for the front surface of tablet display screens are generally not necessary. When voice mode is supported on a tablet and it is limited to speaker mode or headset operations only, additional SAR testing for this type of voice use is not required.

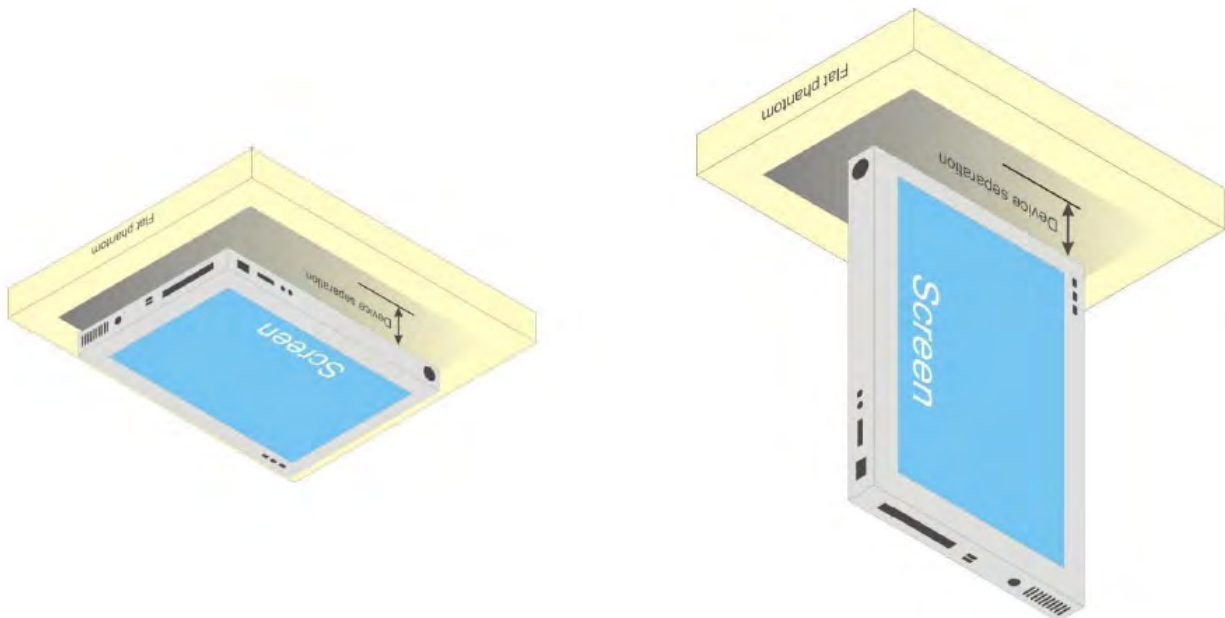


Illustration for Tablet Setup

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4.4 Test limit

§ 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

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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 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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Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(i) Limits for Occupational/Controlled Exposure				
0.3-3.0	614	1.63	*(100)	≤6
3.0-30	1842/f	4.89/f	*(900/f ²)	<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 General Population/Uncontrolled Exposure				
0.3-1.34	614	1.63	*(100)	<30
1.34-30	824/f	2.19/f	*(180/f ²)	<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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4.5 Proximity sensor operation description

The P-sensor being used to reduce output power is capacitive in which when the object such as human body, metal or plastic is being approached, the sensing capacitance would be increased with the antenna pad. Once the capacitance is accumulated, and reached over the threshold as set in MCU of the microchip, the interruption signal is pulled low (High state without trigger) and further inform modem module of the transmitter to make power reduction.

4.5.1 Proximity sensor measurement procedure

1. The proximity sensor is collocated with WWAN/WLAN antenna.
2. Output power is measured, and monitored by using the base station simulator and power sensor/power meter. A RF cables with sufficient length was being attached from the antenna port of the module, and used for the measurement. The appropriate loss attenuated from cable is compensated in the test setup.



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4.5.2 Trigger distances for back/top side

Test procedure:

1. The entire back surface or edge of the tablet is positioned below a flat phantom filled with the required tissue equivalent medium and positioned at least 20 mm further than the distance that triggers power reduction.
2. The back surface or edge is moved toward the phantom in 3 mm steps until the sensor triggers.
3. The back surface or edge is again moved toward the phantom, but in 1 mm steps, until it is at least 5 mm past the triggering point or touching the phantom
4. If the tablet is not touching the phantom, it is moved in 3 mm steps until it touches the phantom to confirm that the sensor remains triggered and the maximum power stays reduced.
5. The back surface or edge is then moved back (further away) from the phantom until maximum output power is returned to the normal maximum level.
6. The process is then reversed by moving the tablet away from the phantom to determine triggering release, until it is at least 10 mm beyond the point that triggers the return of normal maximum power.
7. The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom should be tabulated.

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8. To ensure all production units are compliant, it is generally necessary to reduce the triggering distance determined from the triggering tests by 1 mm, or more if it is necessary, and use the smallest distance for movements to and from the phantom, minus 1 mm, as the sensor triggering distance for determining the SAR measurement distance.
9. For back/top, the trigger distance of proximity sensor is tabulated below.

Trigger distance (mm)	Back	Top
Ant 1	17	18
Ant 2	13	14
Ant 4	15	16

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4.5.3 Tilt angle testing

Test procedure:

1. The influence of table tilt angles to proximity sensor triggering is determined by positioning each tablet edge that contains a transmitting antenna, perpendicular to the flat phantom, at the smallest sensor triggering test distance determined in sections 1.6.2 by rotating the tablet around the edge next to the phantom in ≤ 10 deg increments until the tablet is ± 45 deg or more from the vertical position at 0 deg.
2. If sensor triggering is released and normal maximum output power is restored within the ± 45 deg range, the procedures in step 1) should be repeated by reducing the tablet to phantom separation distance by 1 mm until the proximity sensor no longer releases triggering, and maximum output power remains in the reduced mode.
3. The smallest separation distance determined in steps 1) and 2), minus 1 mm, is the sensor triggering distance for tablet tilt coverage. The smallest separation distance determined in sections 1.6.2, 1.6.3 minus 1 mm should be used in the SAR measurements.
4. The influence of tablet tilt angles to proximity sensor triggering is determined by positioning top and right sides, please refer to table 1.6.5 and 1.6.6.
5. After the tilt angle testing for top edge, the sensor is not released during ± 45 deg, so trigger distance - 1mm should be used in the SAR measurements.

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4.5.4 Proximity sensor coverage

The following procedures do not apply and are not required when the antenna and sensor are collocated and the peak SAR location is overlapping with the sensor.

Test procedure:

1. The back surface or edges of the tablet is positioned at a test separation distance less than or equal to the distance required for back surface or edge triggering, with both the antenna and sensor pad located at least 20 mm laterally outside the edge (boundary) of the phantom, along the direction of maximum antenna and sensor offset.
2. The similar sequence of steps applied to determine sensor triggering distance in section 1.6.2 are used to verify back surface and edge sensor coverage by moving the tablet (sensor and antenna) horizontally toward the phantom while maintaining the same vertical separation between the back surface or edge and the phantom.
3. After the exact location where triggering of power reduction is determined, with respect to the sensor and antenna, the tablet movement should be continued, in 3 mm increments, until both the sensor and antenna(s) are fully under the phantom and at least 20 mm inside the phantom edge.
4. The process is then repeated from the other direction, at the opposite end of maximum antenna and sensor offset, by rotating the tablet 180 degrees.

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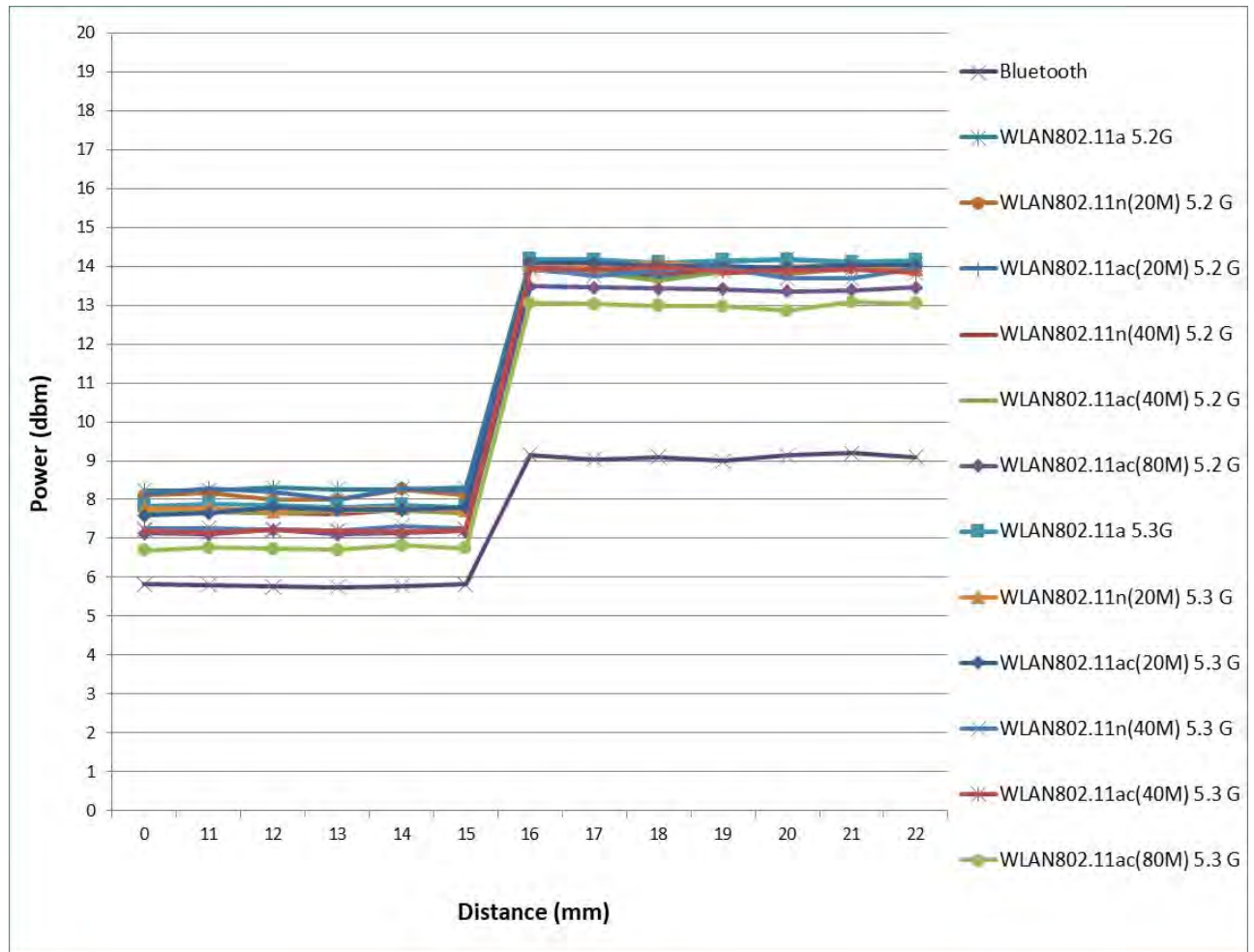
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4.5.5 Results

The measured output power within ± 5 mm of the triggering points, or until the tablet is touching the phantom, for movements to and from the phantom is tabulated in the following.

Back Surface

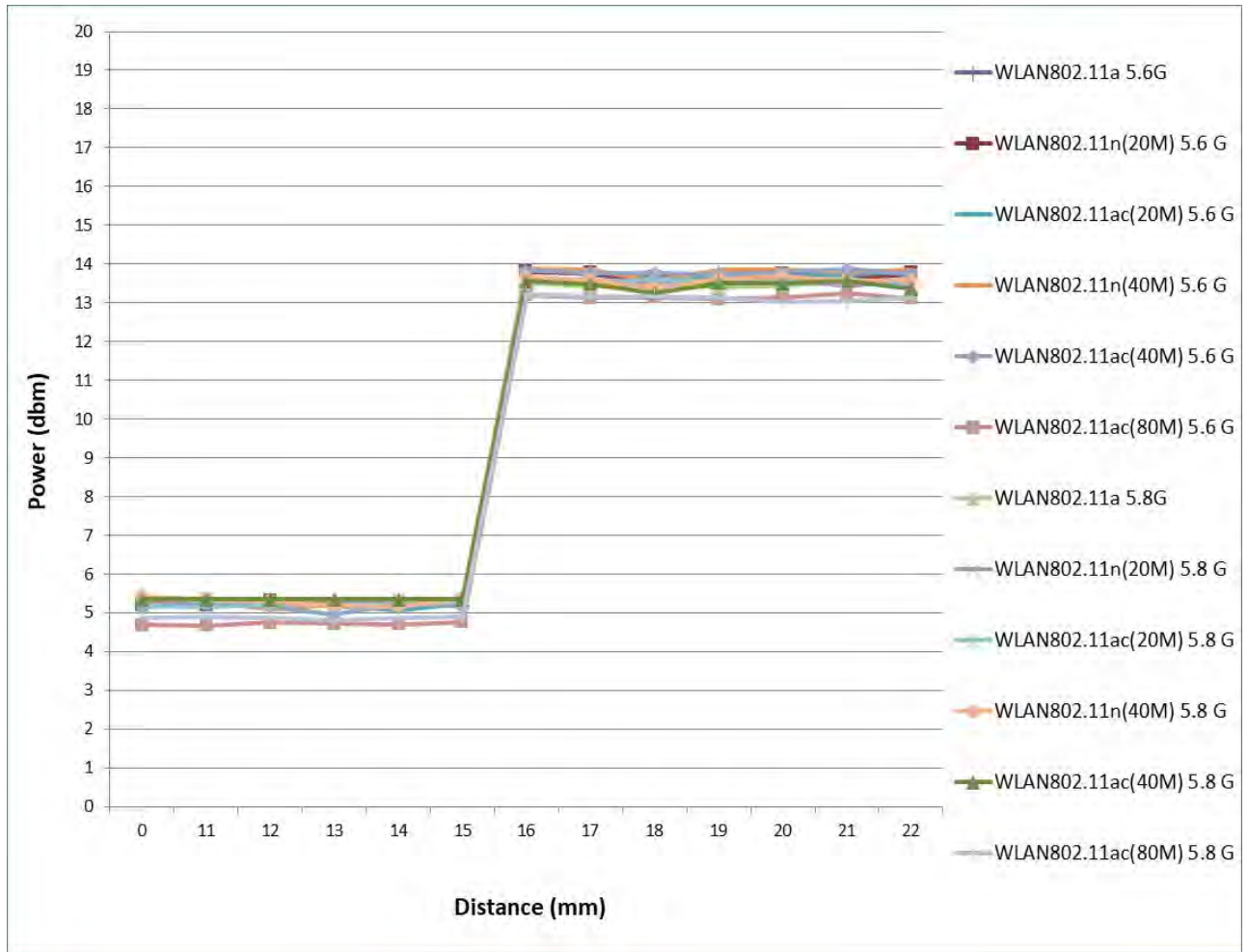
Moving device toward the phantom



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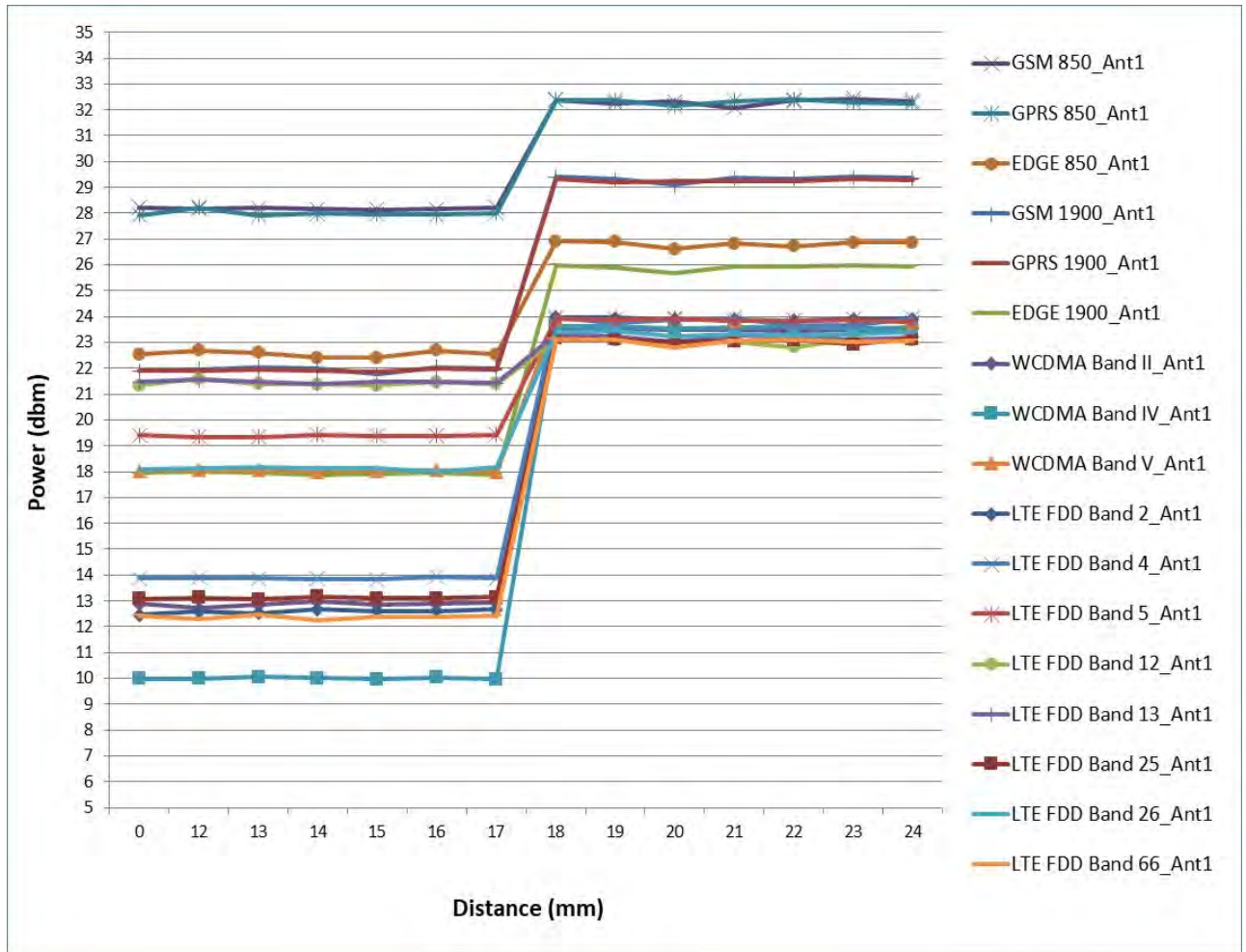
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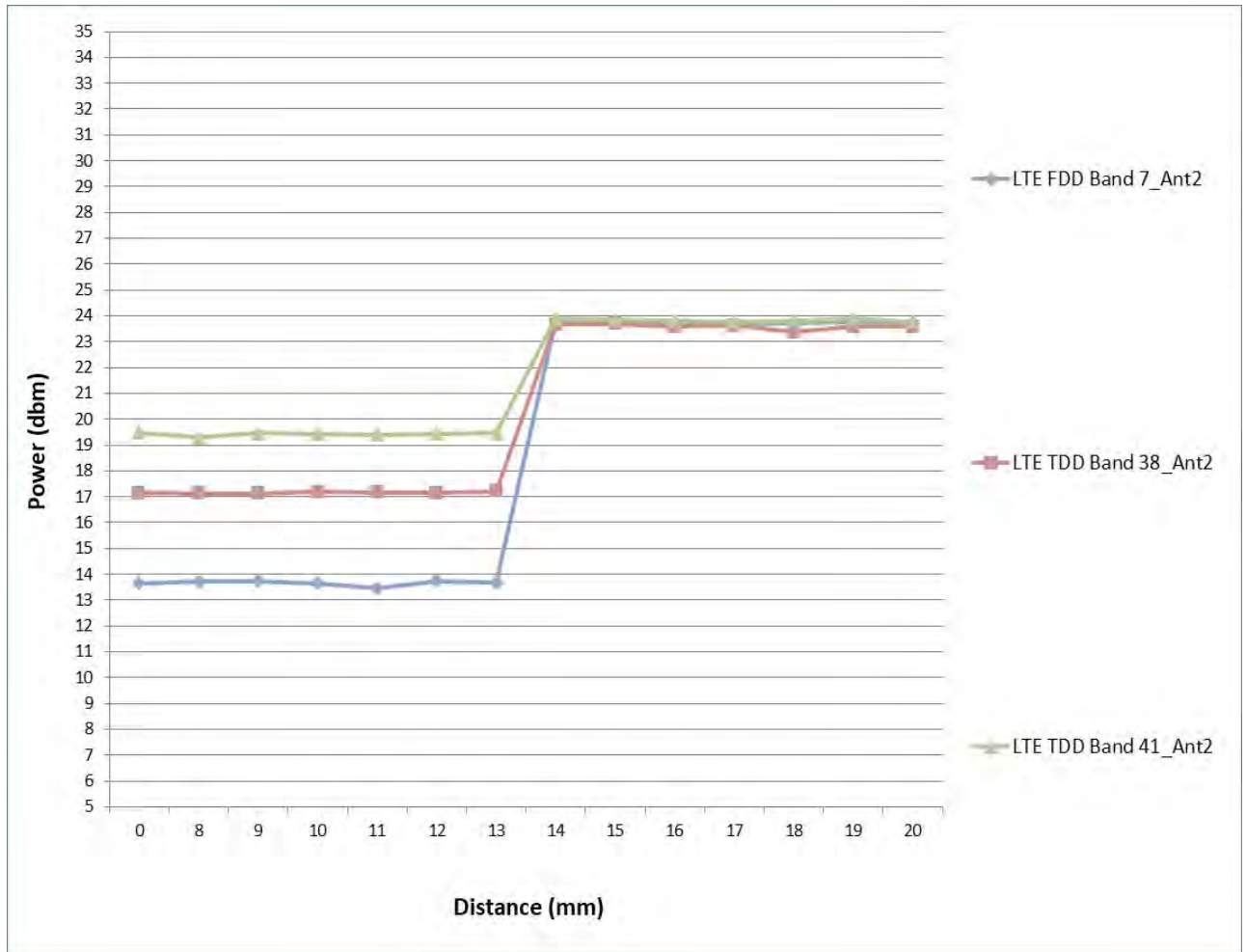
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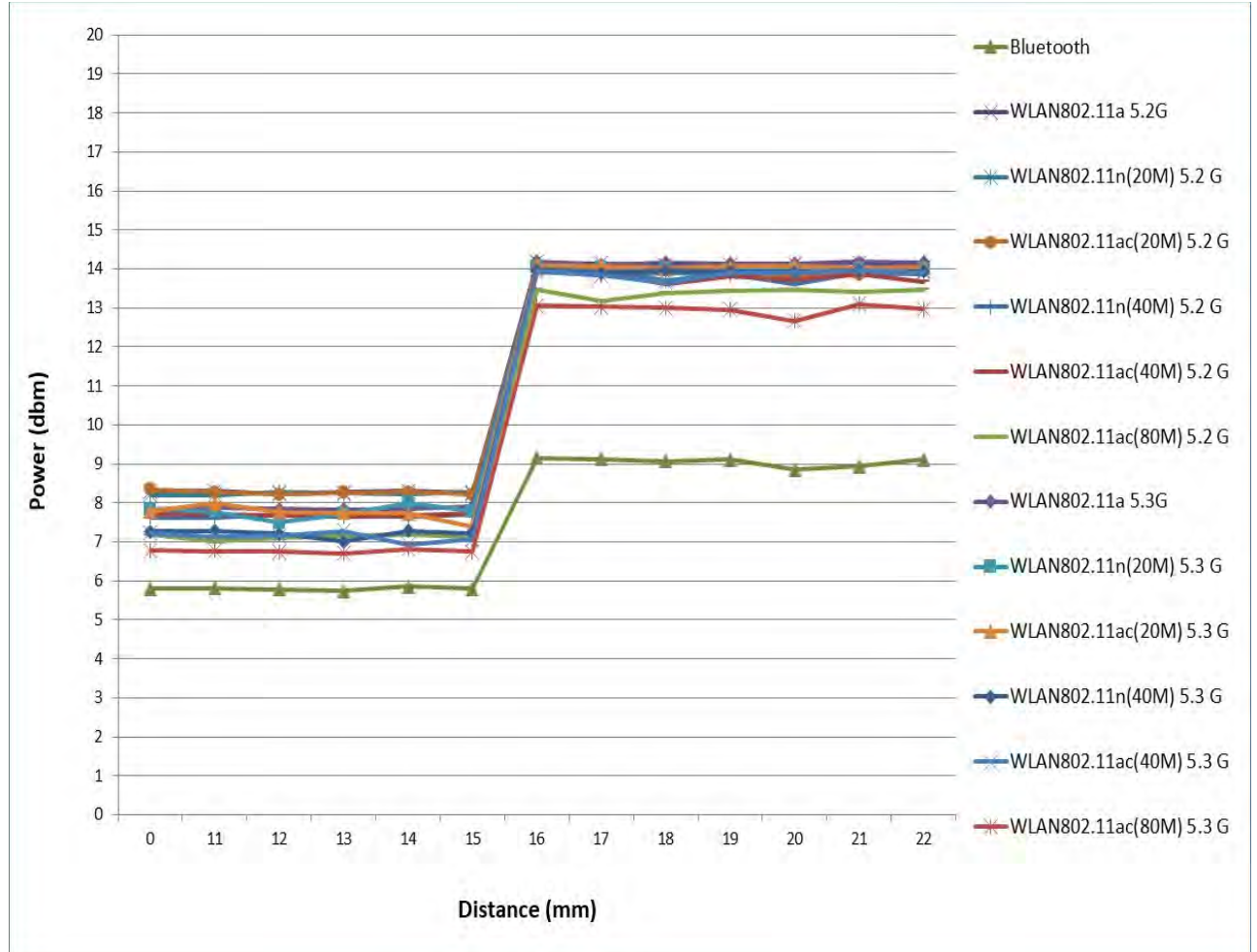


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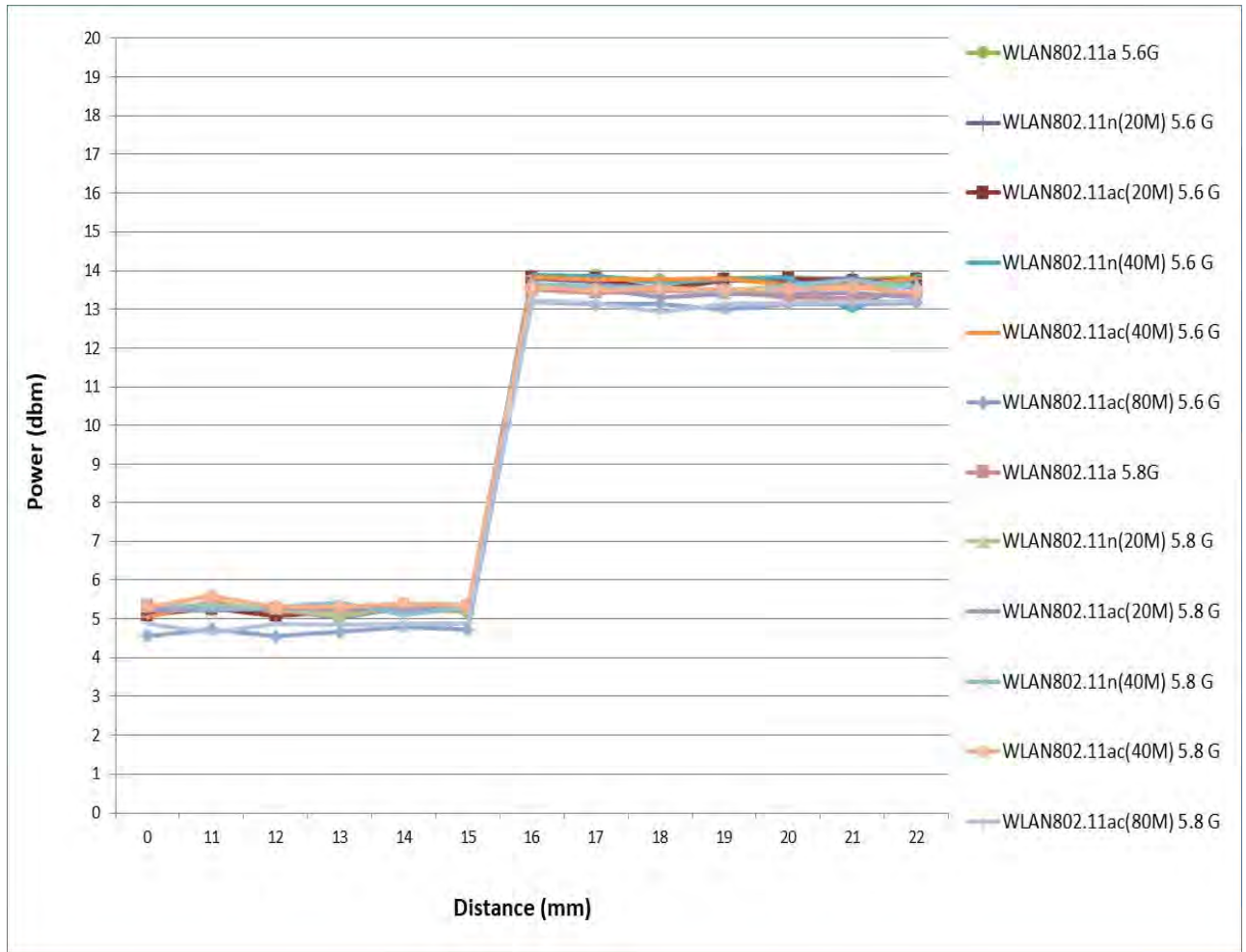
Moving device away from the phantom



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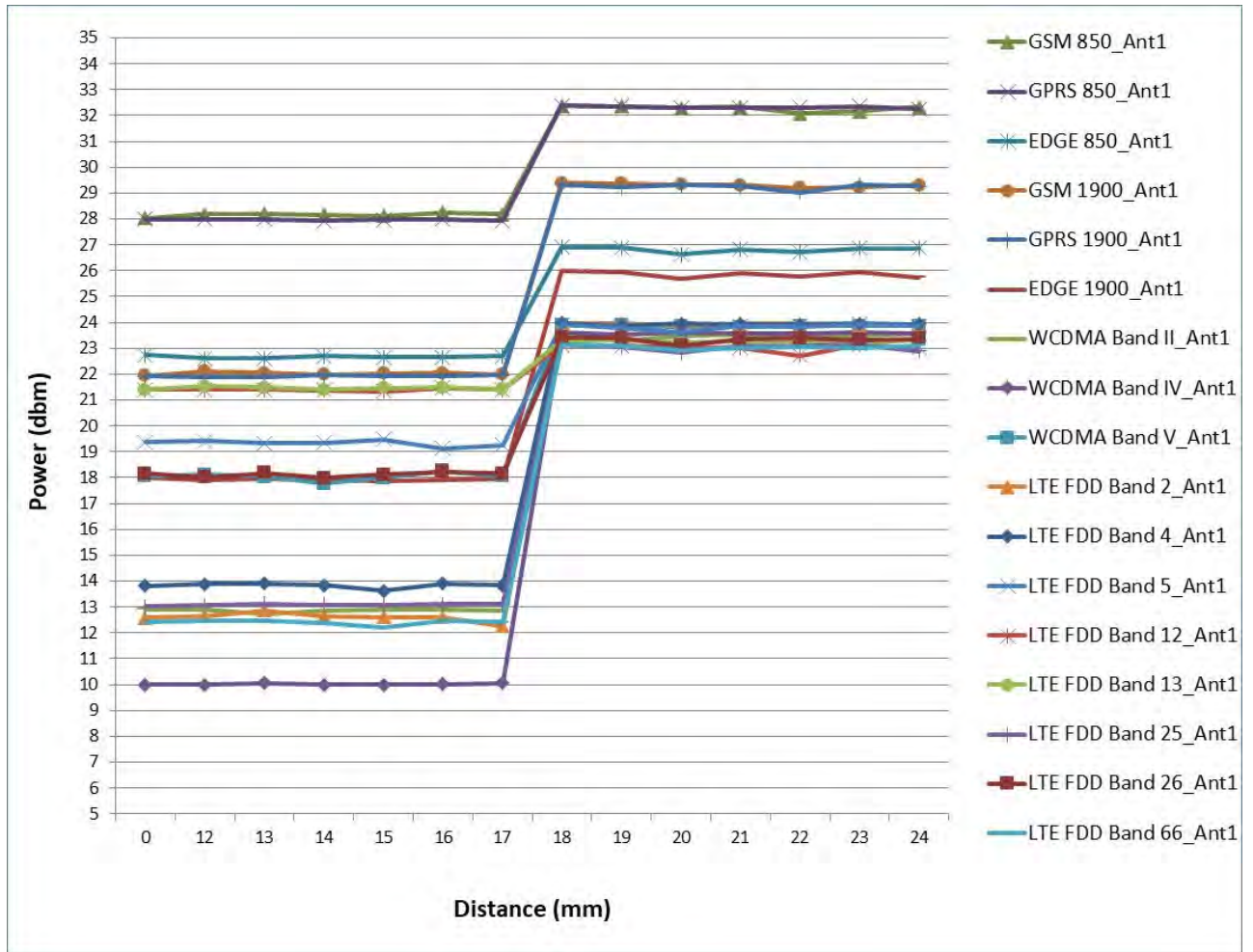
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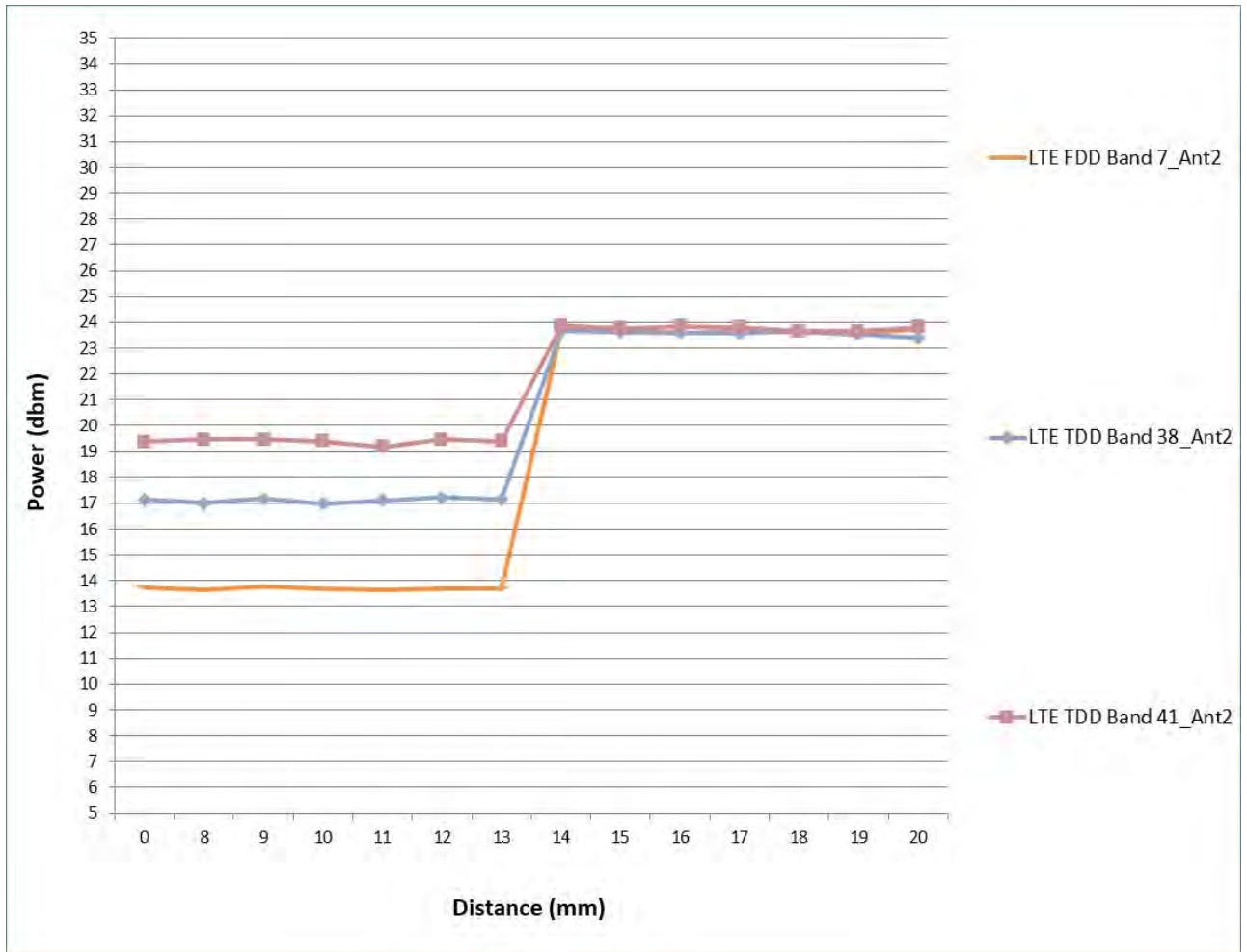
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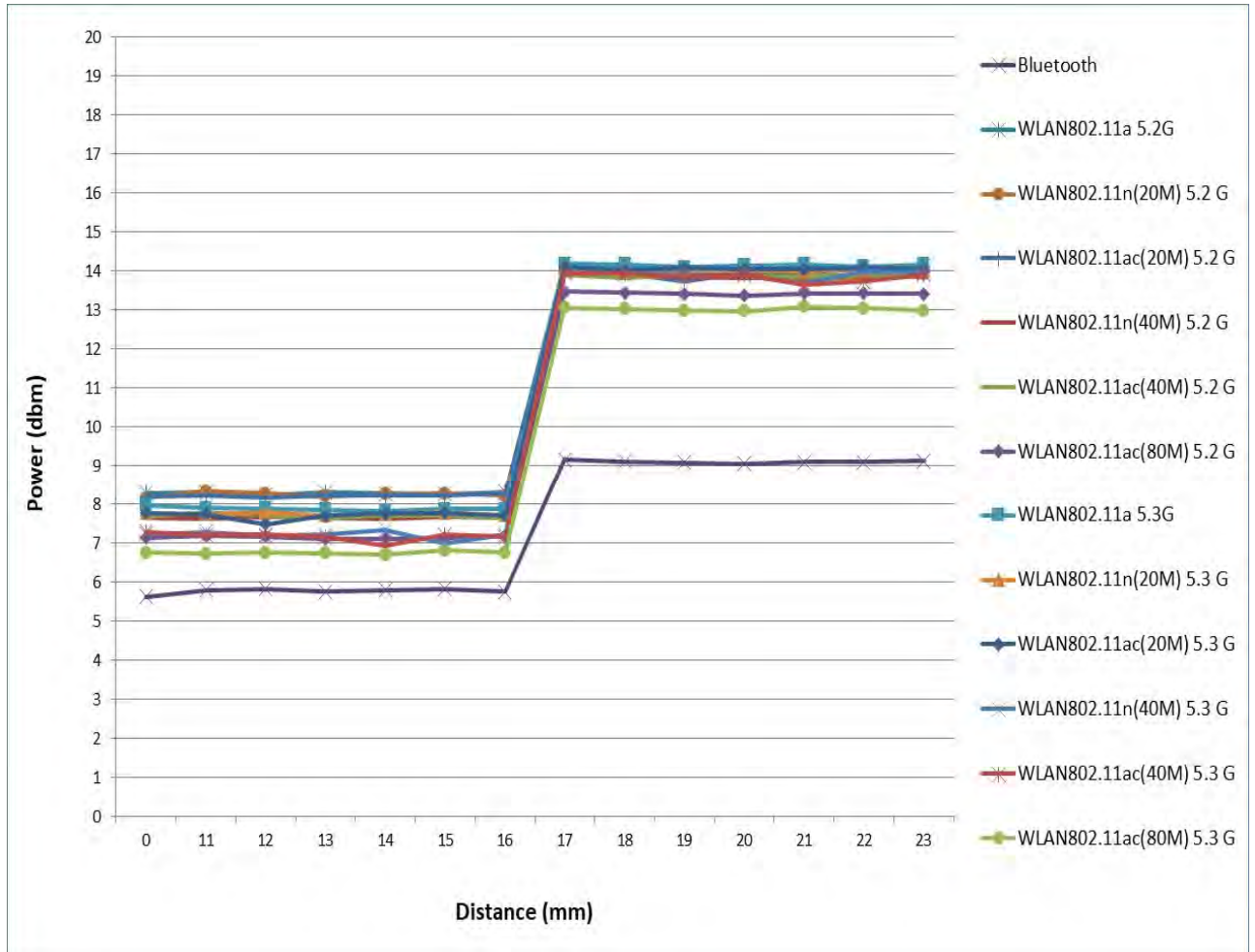
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Top side

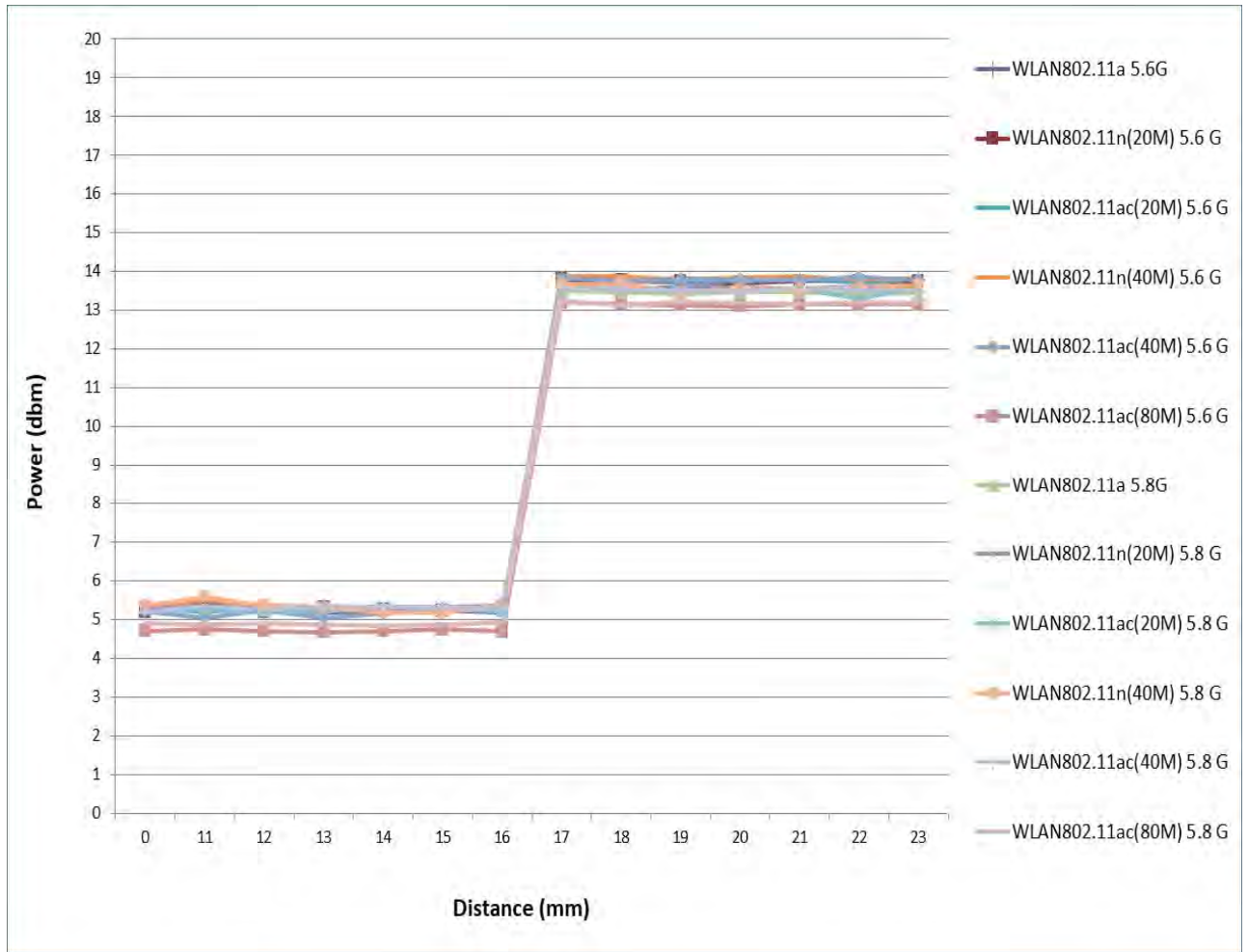
Moving device toward the phantom



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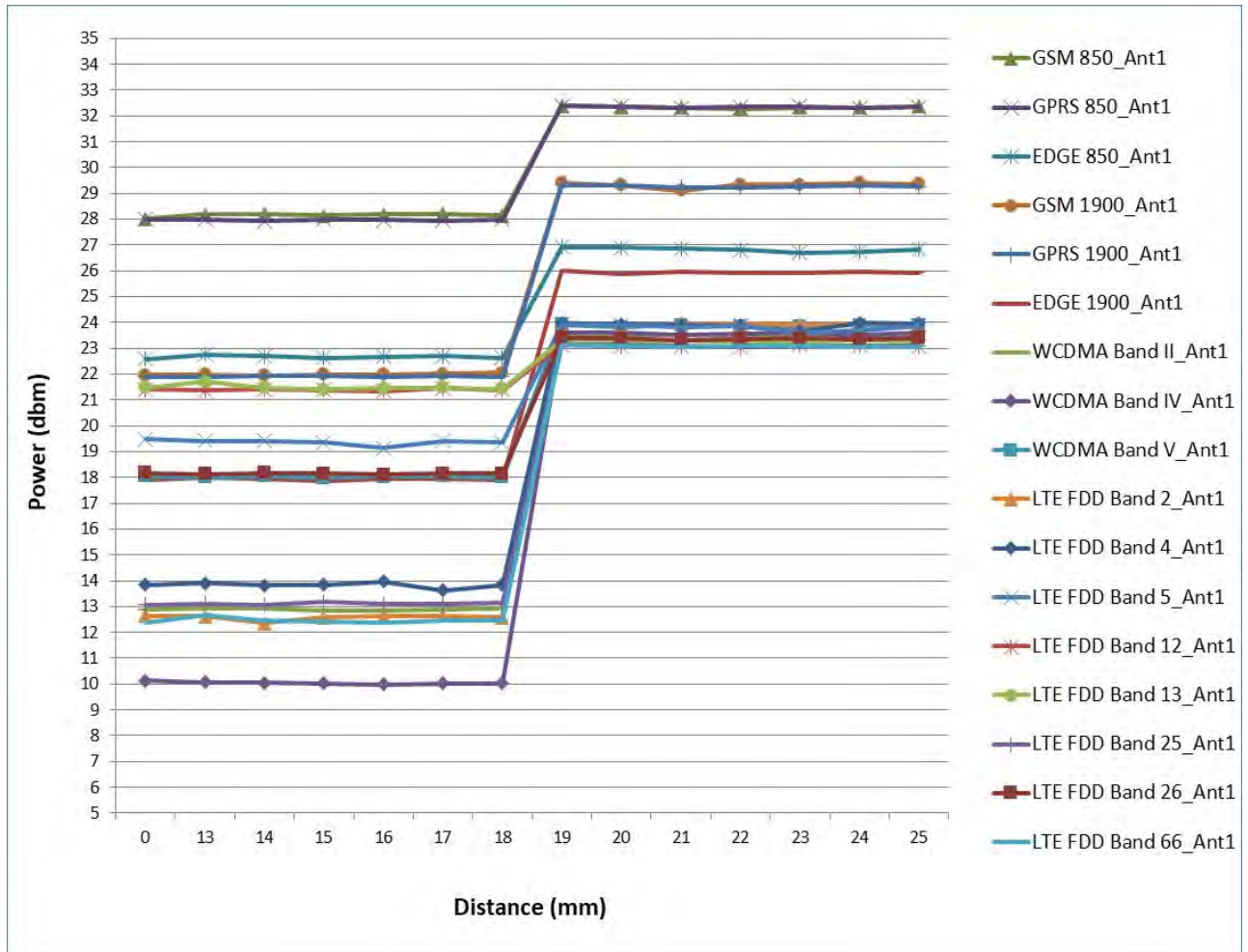
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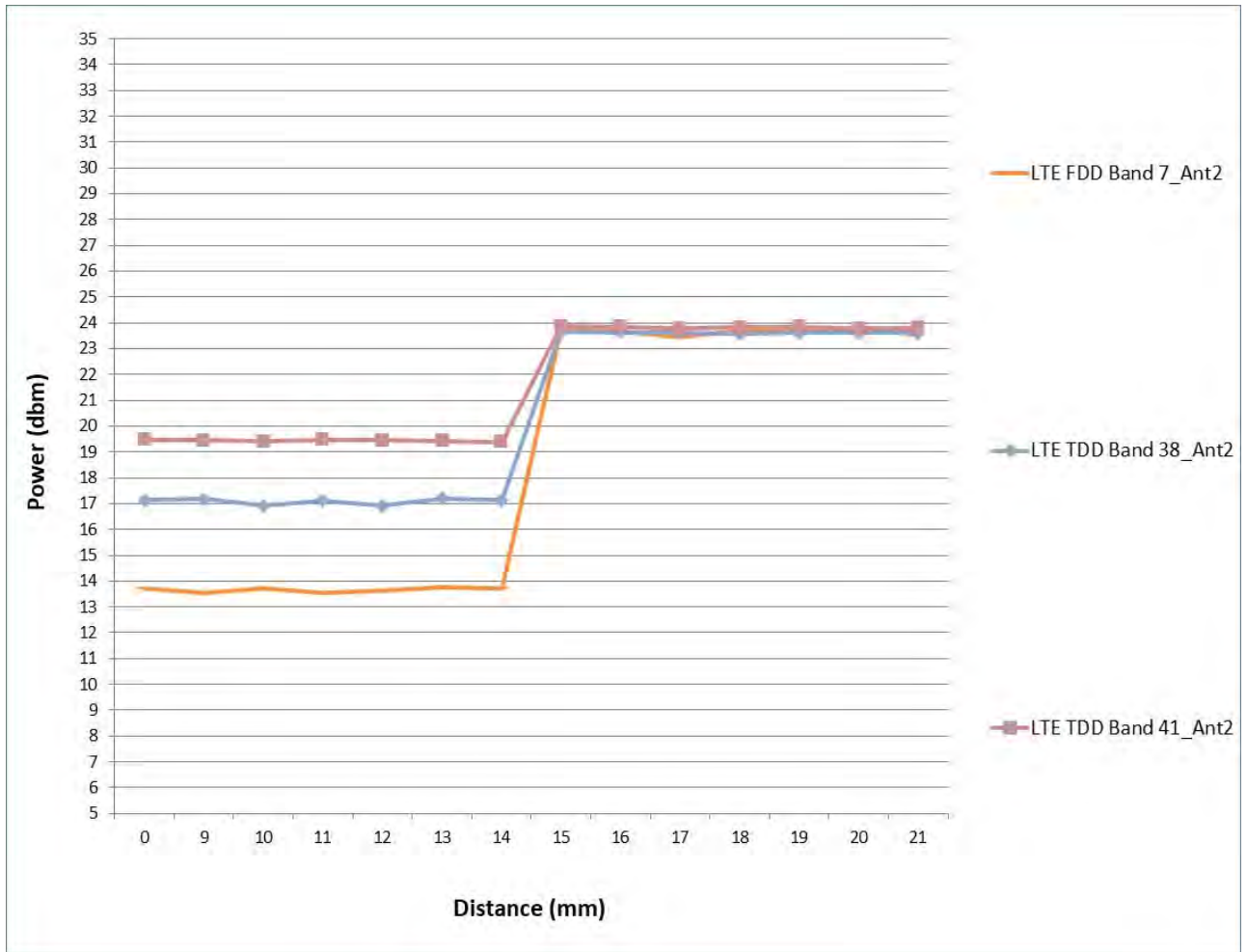
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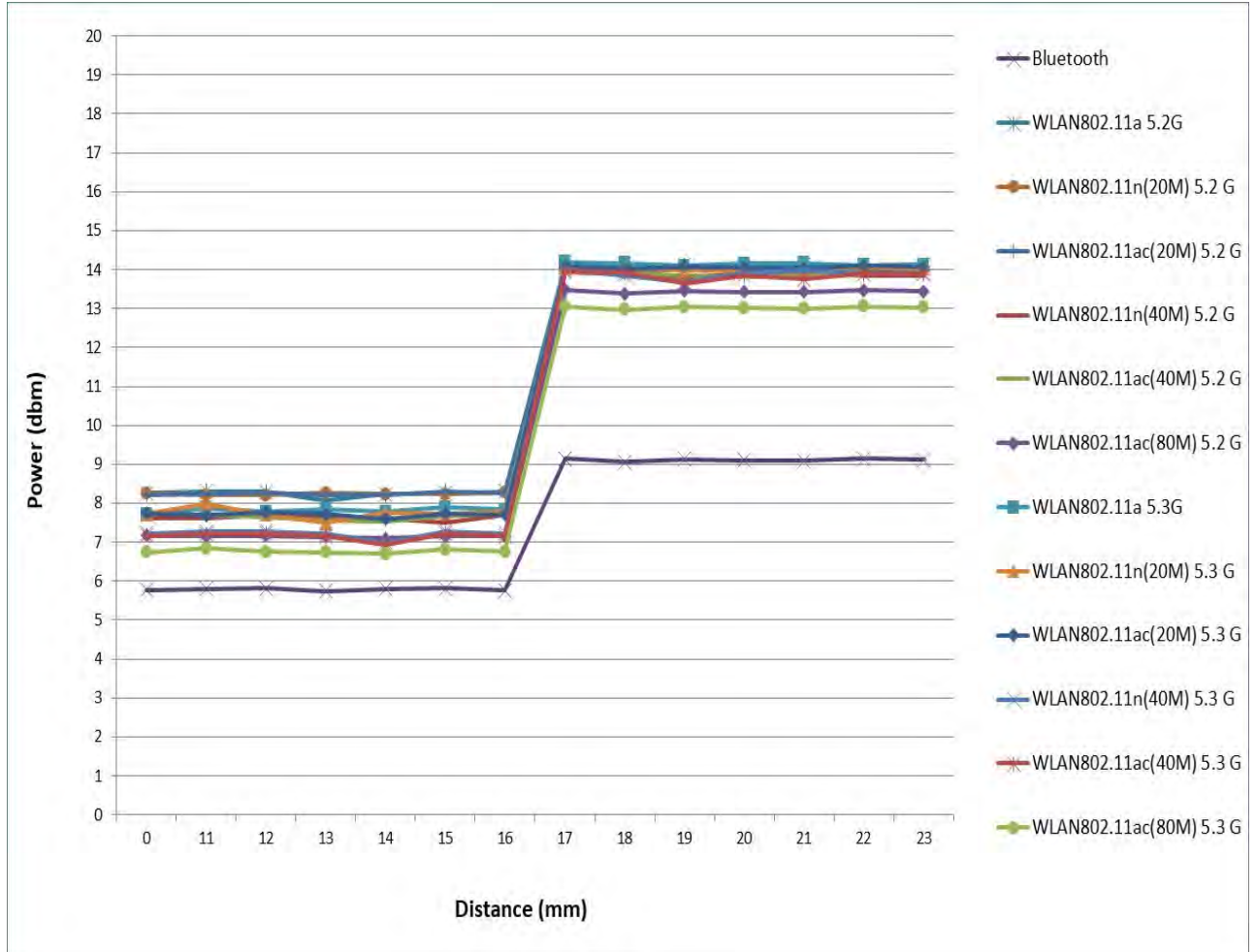


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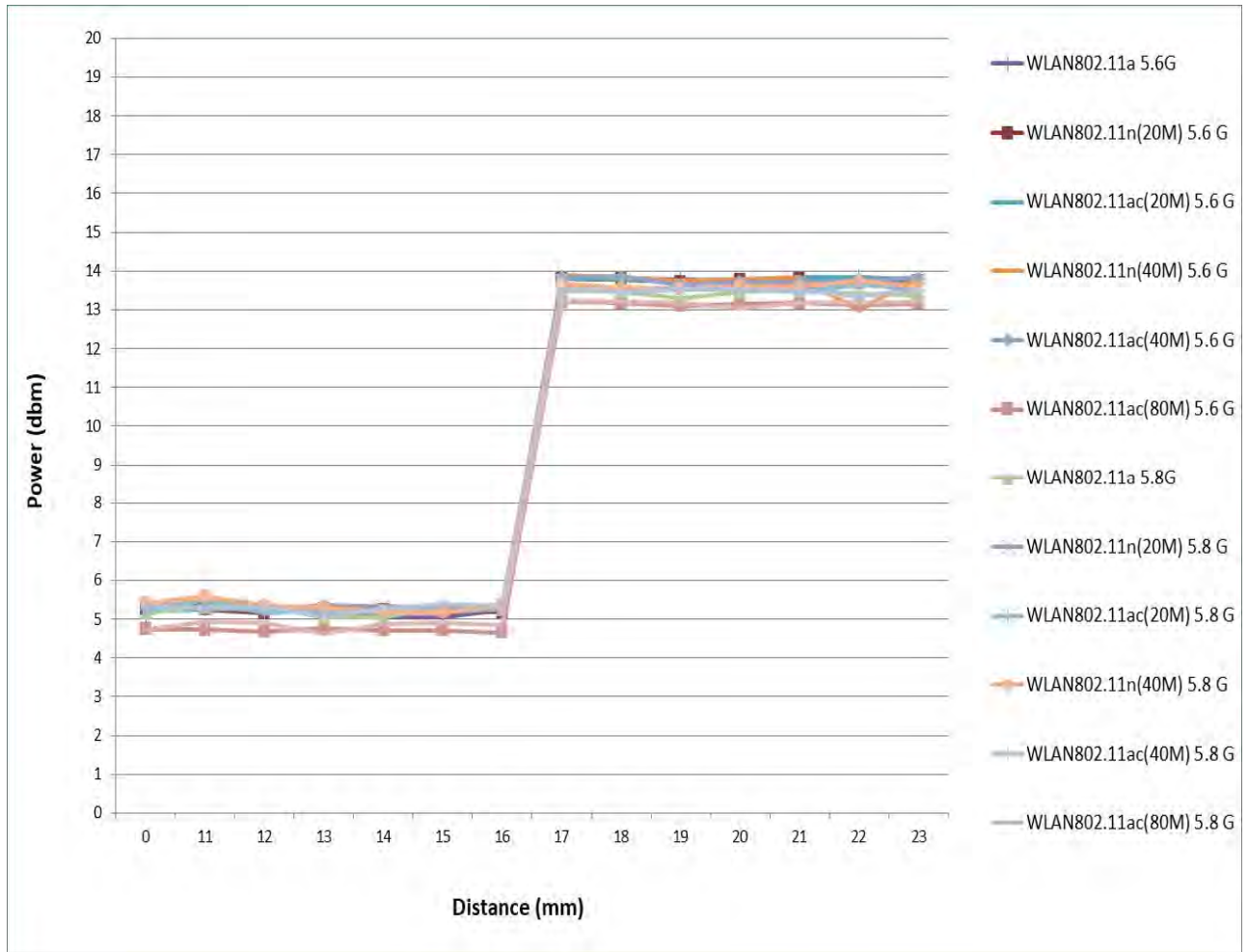
Moving device away from the phantom



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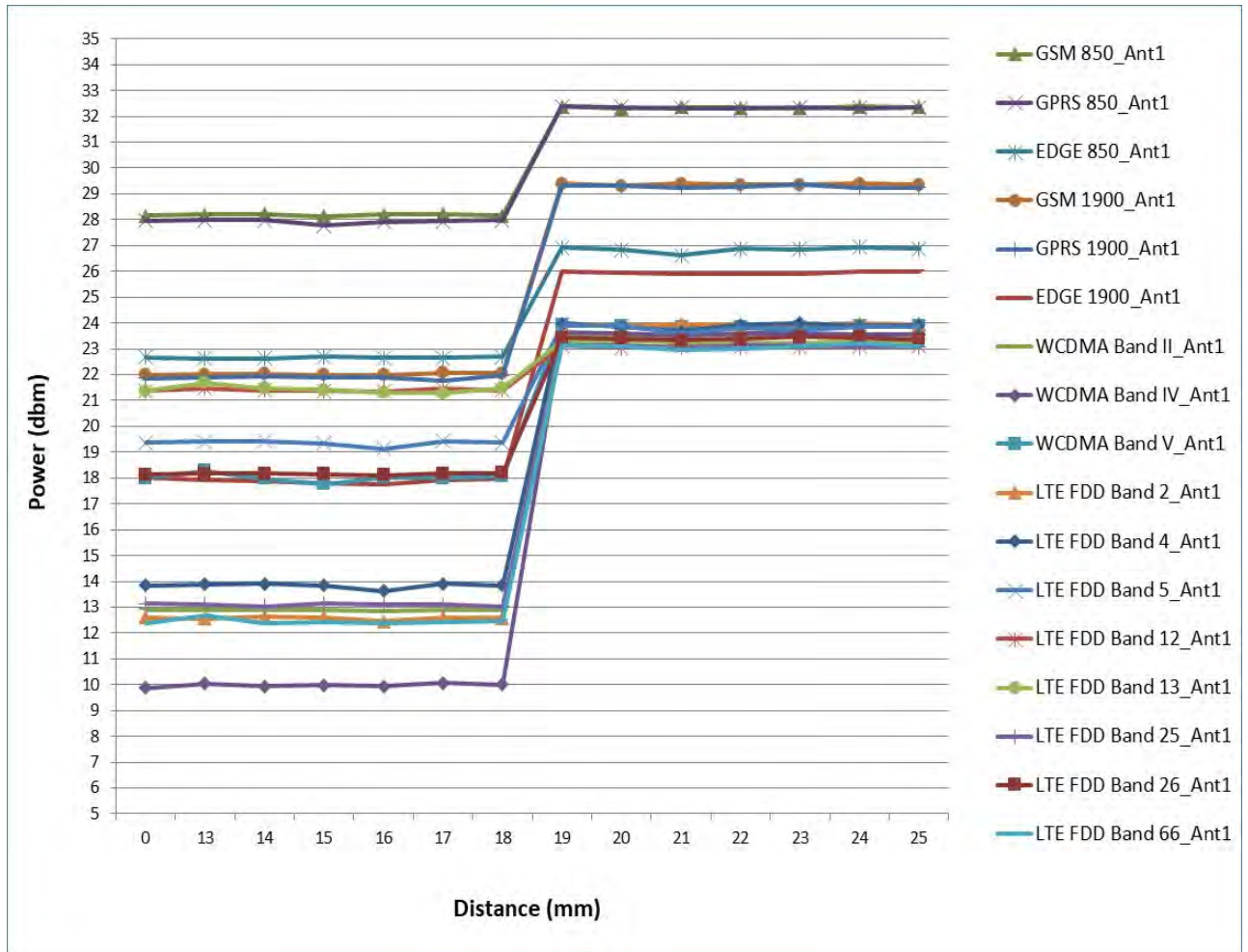
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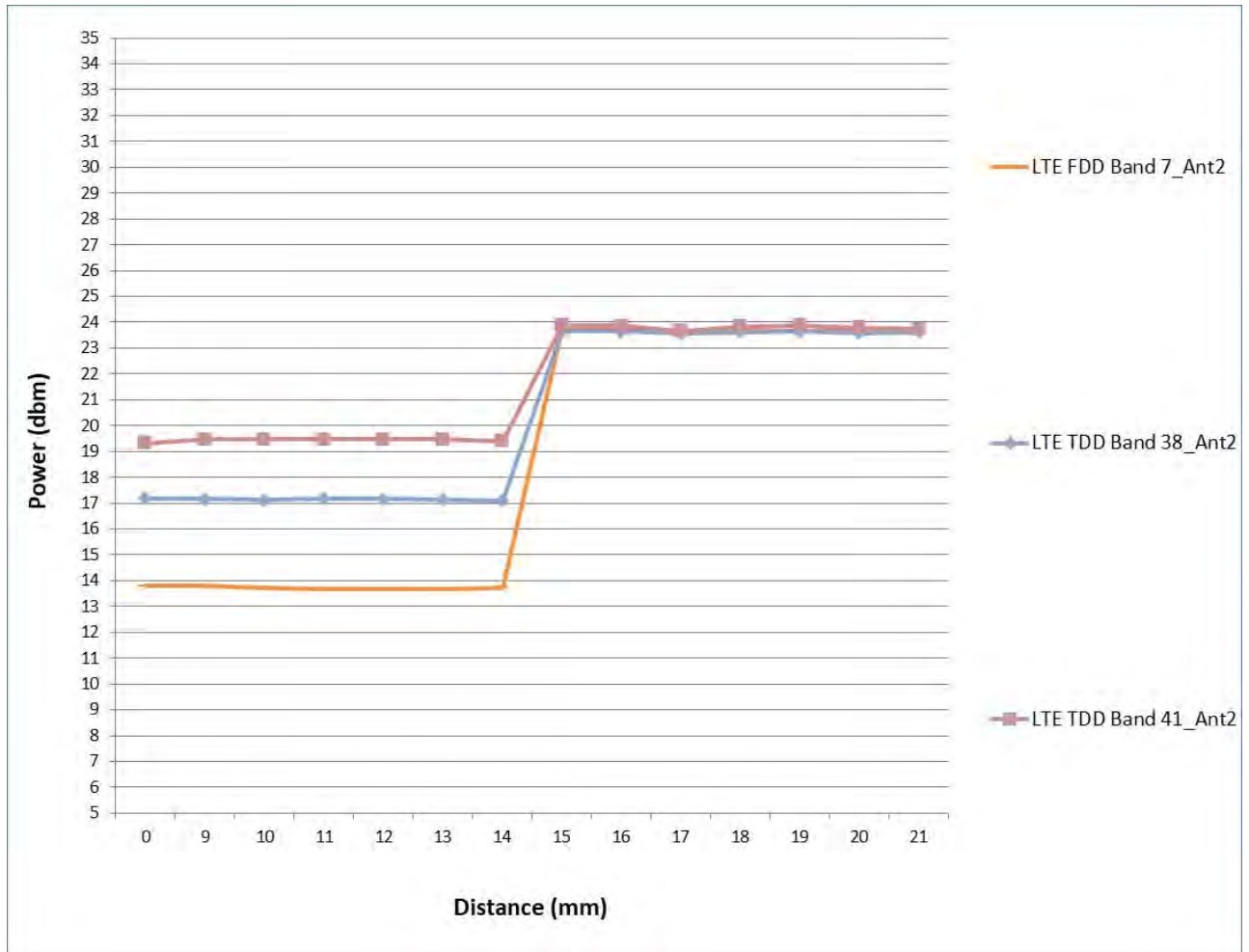
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Table 4.5 Tilt angle test results

Antenna	P-sensor ON/OFF	-50 deg	-45 deg	-40 deg	-30 deg	-20 deg	-10 deg	0 deg	10 deg	20 deg	30 deg	40 deg	45 deg	50 deg
1	18mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
2	14mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON
4	16mm	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON	ON

During the tilt angle testing, the sensor is not released, so trigger distance - 1 is used in the SAR measurement.

Note:

1. The triggering variations and hysteresis effect has been evaluated separately according to the tissue-equivalent medium required for each frequency band, and sensor triggering does not change with different tissue-equivalent media.
2. Conducted power is monitored qualitatively to identify the general triggering characteristics and recorded quantitatively, versus spacing.

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4.5.6 Operation description for P-sensor

Power Reduction Design Specification (for P-sensor)

With P-sensor mechanism, the maximum reduced power table in chapter 5 would be the default power when P-sensor failure or malfunction.

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5 MAXIMUM OUTPUT POWER

5.1 GSM/GPRS/EDGE

sensor off

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power		Source-based time average power	
				Avg. (dBm)		Avg. (dBm)	
GSM 850 (GMSK)	824.2	128	32.5	32.34		23.31	
	836.6	190	32.5	32.38		23.35	
	848.8	251	32.5	32.33		23.30	
The division factor compared to the number of TX time slot							
Division factor				1 TX time slot			
				-9.03			
Burst average power							
Max. Rated Avg. Power + Max. Tolerance (dBm)			32.5	31.5	30	29	
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12	
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	
GPRS 850 (GMSK)	824.2	128	32.25	31.45	29.78	28.64	
	836.6	190	32.38	31.48	29.93	28.91	
	848.8	251	32.23	31.34	29.76	28.63	
Source-based time average power							
GPRS 850 (GMSK)	824.2	128	23.22	25.43	25.52	25.63	
	836.6	190	23.35	25.46	25.67	25.90	
	848.8	251	23.20	25.32	25.50	25.62	
The division factor compared to the number of TX time slot							
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot	
			-9.03	-6.02	-4.26	-3.01	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			27	24	22.5	22
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (8PSK)	824.2	128	26.90	23.85	22.46	21.79
	836.6	190	26.92	23.75	22.40	21.63
	848.8	251	26.84	23.81	22.37	21.73
Source-based time average power						
EDGE 850 (8PSK)	824.2	128	17.87	17.83	18.20	18.78
	836.6	190	17.89	17.73	18.14	18.62
	848.8	251	17.81	17.79	18.11	18.72
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power		Source-based time average power
				Avg. (dBm)	Avg. (dBm)	
GSM1900 (GMSK)	1850.2	512	29.5	29.31	20.28	
	1880	661	29.5	29.40	20.37	
	1909.8	810	29.5	29.27	20.24	
The division factor compared to the number of TX time slot						
Division factor				1 TX time slot		
				-9.03		
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			29.5	29	27	26
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	29.25	28.80	26.92	25.88
	1880	661	29.32	28.93	26.95	25.93
	1909.8	810	29.22	28.70	26.85	25.80
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	20.22	22.78	22.66	22.87
	1880	661	20.29	22.91	22.69	22.92
	1909.8	810	20.19	22.68	22.59	22.79
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			26	26	23.5	22
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	25.99	24.99	23.15	21.94
	1880	661	25.93	24.79	23.14	21.82
	1909.8	810	25.79	24.81	23.11	21.80
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	16.96	18.97	18.89	18.93
	1880	661	16.90	18.77	18.88	18.81
	1909.8	810	16.76	18.79	18.85	18.79
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

sensor on

EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power	Source-based time average power
				Avg. (dBm)	Avg. (dBm)
GSM 850 (GMSK)	824.2	128	29	27.99	18.96
	836.6	190	29	28.07	19.04
	848.8	251	29	28.23	19.20
The division factor compared to the number of TX time slot					
Division factor				1 TX time slot	
				-9.03	

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			29	26	24	23
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 850 (GMSK)	824.2	128	27.78	24.88	22.75	21.75
	836.6	190	28.01	24.92	22.93	21.83
	848.8	251	27.94	24.89	22.81	21.81
Source-based time average power						
GPRS 850 (GMSK)	824.2	128	18.75	18.86	18.49	18.74
	836.6	190	18.98	18.90	18.67	18.82
	848.8	251	18.91	18.87	18.55	18.80
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			23	20	18	17
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 850 (8PSK)	824.2	128	22.37	19.77	17.76	16.68
	836.6	190	22.65	19.88	17.77	16.65
	848.8	251	22.71	19.82	17.49	16.60
Source-based time average power						
EDGE 850 (8PSK)	824.2	128	13.34	13.75	13.50	13.67
	836.6	190	13.62	13.86	13.51	13.64
	848.8	251	13.68	13.80	13.23	13.59
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
EUT mode	Frequency (MHz)	CH	Max. Rated Avg. Power + Max. Tolerance (dBm)	Burst average power		Source-based time average power
GSM1900 (GMSK)	1850.2	512	22.5	Avg. (dBm)		Avg. (dBm)
	1880	661	22.5	21.99		12.96
	1909.8	810	22.5	22.05		13.02
				22.07		13.04
The division factor compared to the number of TX time slot						
Division factor				1 TX time slot		
				-9.03		

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Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			22.5	19.5	17.5	16.5
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
GPRS 1900 (GMSK)	1850.2	512	21.87	19.43	17.38	16.22
	1880	661	21.98	19.38	17.36	16.17
	1909.8	810	21.89	19.39	17.33	16.20
Source-based time average power						
GPRS 1900 (GMSK)	1850.2	512	12.84	13.41	13.12	13.21
	1880	661	12.95	13.36	13.10	13.16
	1909.8	810	12.86	13.37	13.07	13.19
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01
Burst average power						
Max. Rated Avg. Power + Max. Tolerance (dBm)			18	15	13	12
			1Dn1UP Multi- class 8	1Dn2UP Multi- class 10	1Dn3UP Multi- class 11	1Dn4UP Multi- class 12
EUT mode	Frequency (MHz)	CH	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)	Avg. (dBm)
EDGE 1900 (8PSK)	1850.2	512	17.87	14.56	12.60	11.61
	1880	661	17.56	14.64	12.66	11.67
	1909.8	810	17.97	14.72	12.71	11.50
Source-based time average power						
EDGE 1900 (8PSK)	1850.2	512	8.84	8.54	8.34	8.60
	1880	661	8.53	8.62	8.40	8.66
	1909.8	810	8.94	8.70	8.45	8.49
The division factor compared to the number of TX time slot						
Division factor			1 TX time slot	2 TX time slot	3 TX time slot	4 TX time slot
			-9.03	-6.02	-4.26	-3.01

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5.2 WCDMA

sensor off

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.53	23.57	23.41
3GPP Rel 5	HSDPA Subtest-1	23.38	23.32	23.39
	HSDPA Subtest-2	23.40	23.39	23.37
	HSDPA Subtest-3	22.83	22.92	22.92
	HSDPA Subtest-4	22.79	22.92	22.84
3GPP Rel 6	HSUPA Subtest-1	23.33	23.42	23.36
	HSUPA Subtest-2	21.29	21.45	21.43
	HSUPA Subtest-3	22.31	22.46	22.30
	HSUPA Subtest-4	21.44	21.36	21.37
	HSUPA Subtest-5	23.29	23.36	23.37
3GPP Rel 7	HSPA+	20.90	20.88	20.88
3GPP Rel 8	DC-HSDPA Subtest-1	23.30	23.40	23.35
	DC-HSDPA Subtest-2	23.38	23.31	23.39
	DC-HSDPA Subtest-3	22.91	22.88	22.90
	DC-HSDPA Subtest-4	22.96	22.81	22.89

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Band		WCDMA IV		
TX Channel		1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.61	23.56	23.62
3GPP Rel 5	HSDPA Subtest-1	23.36	23.42	23.44
	HSDPA Subtest-2	23.35	23.43	23.38
	HSDPA Subtest-3	22.79	22.85	22.84
	HSDPA Subtest-4	22.91	22.81	22.87
3GPP Rel 6	HSUPA Subtest-1	23.46	23.33	23.34
	HSUPA Subtest-2	21.46	21.31	21.45
	HSUPA Subtest-3	22.38	22.37	22.41
	HSUPA Subtest-4	21.47	21.34	21.43
3GPP Rel 7	HSUPA Subtest-5	23.44	23.38	23.42
	HSPA+	20.82	20.84	20.93
3GPP Rel 8	DC-HSDPA Subtest-1	23.34	23.43	23.32
	DC-HSDPA Subtest-2	23.32	23.45	23.34
	DC-HSDPA Subtest-3	22.79	22.81	22.96
	DC-HSDPA Subtest-4	22.82	22.96	22.88
Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.00		
3GPP Rel 99	RMC 12.2Kbps	23.84	23.91	23.79
3GPP Rel 5	HSDPA Subtest-1	23.42	23.47	23.30
	HSDPA Subtest-2	23.49	23.32	23.32
	HSDPA Subtest-3	22.82	22.86	22.98
	HSDPA Subtest-4	22.82	22.81	22.85
3GPP Rel 6	HSUPA Subtest-1	23.40	23.45	23.42
	HSUPA Subtest-2	21.34	21.40	21.35
	HSUPA Subtest-3	22.46	22.34	22.49
	HSUPA Subtest-4	21.35	21.46	21.32
3GPP Rel 7	HSUPA Subtest-5	23.39	23.46	23.44
	HSPA+	20.84	20.83	20.96
3GPP Rel 8	DC-HSDPA Subtest-1	23.49	23.44	23.34
	DC-HSDPA Subtest-2	23.49	23.49	23.47
	DC-HSDPA Subtest-3	22.93	22.95	22.84
	DC-HSDPA Subtest-4	22.98	22.90	22.96

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sensor on

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		13.00		
3GPP Rel 99	RMC 12.2Kbps	12.94	12.84	12.85
3GPP Rel 5	HSDPA Subtest-1	11.85	11.84	11.96
	HSDPA Subtest-2	11.95	11.87	11.96
	HSDPA Subtest-3	11.46	11.43	11.57
	HSDPA Subtest-4	11.43	11.42	11.53
3GPP Rel 6	HSUPA Subtest-1	11.99	11.88	11.92
	HSUPA Subtest-2	11.96	11.91	11.95
	HSUPA Subtest-3	10.93	10.91	10.94
	HSUPA Subtest-4	11.92	11.85	11.92
	HSUPA Subtest-5	11.00	10.89	10.90
3GPP Rel 7	HSPA+	11.90	11.78	11.82
3GPP Rel 8	DC-HSDPA Subtest-1	11.78	11.82	11.89
	DC-HSDPA Subtest-2	11.87	11.83	11.90
	DC-HSDPA Subtest-3	11.32	11.28	11.48
	DC-HSDPA Subtest-4	11.38	11.32	11.48
Band		WCDMA IV		
TX Channel		1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		10.50		
3GPP Rel 99	RMC 12.2Kbps	10.03	10.07	10.08
3GPP Rel 5	HSDPA Subtest-1	9.06	9.04	9.13
	HSDPA Subtest-2	8.99	8.96	9.00
	HSDPA Subtest-3	8.67	8.63	8.69
	HSDPA Subtest-4	8.60	8.57	8.61
3GPP Rel 6	HSUPA Subtest-1	8.50	8.49	8.63
	HSUPA Subtest-2	9.11	9.00	9.08
	HSUPA Subtest-3	8.23	8.17	8.31
	HSUPA Subtest-4	9.08	9.06	9.17
	HSUPA Subtest-5	8.24	8.17	8.19
3GPP Rel 7	HSPA+	9.08	8.85	9.06
3GPP Rel 8	DC-HSDPA Subtest-1	8.99	8.90	9.11
	DC-HSDPA Subtest-2	8.89	8.96	8.88
	DC-HSDPA Subtest-3	8.63	8.59	8.68
	DC-HSDPA Subtest-4	8.49	8.56	8.46

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Band		WCDMA V		
TX Channel		4132	4183	4233
Frequency (MHz)		826.4	836.6	846.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		18.50		
3GPP Rel 99	RMC 12.2Kbps	18.01	18.02	18.07
3GPP Rel 5	HSDPA Subtest-1	17.14	17.16	17.08
	HSDPA Subtest-2	17.20	17.18	17.09
	HSDPA Subtest-3	16.71	16.69	16.58
	HSDPA Subtest-4	16.59	16.66	16.55
3GPP Rel 6	HSUPA Subtest-1	16.56	16.48	16.43
	HSUPA Subtest-2	17.08	16.99	17.02
	HSUPA Subtest-3	16.12	16.00	16.07
	HSUPA Subtest-4	17.06	16.97	17.05
	HSUPA Subtest-5	16.09	16.03	15.99
3GPP Rel 7	HSPA+	16.97	16.97	16.92
3GPP Rel 8	DC-HSDPA Subtest-1	17.05	17.06	17.02
	DC-HSDPA Subtest-2	17.17	17.05	17.06
	DC-HSDPA Subtest-3	16.66	16.54	16.46
	DC-HSDPA Subtest-4	16.44	16.60	16.50

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5.3 FDD LTE

sensor off

LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1880	1900		
Channel				18700	18900	19100		
20	QPSK	1	0	23.98	23.96	23.97	24.00	0
		1	50	23.77	23.89	23.92	24.00	0
		1	99	23.82	23.94	23.90	24.00	0
		50	0	22.81	22.81	22.94	23.00	1
		50	25	22.81	22.93	22.85	23.00	1
		50	50	22.84	22.79	22.79	23.00	1
20	16-QAM	100	0	22.91	22.92	22.76	23.00	1
		1	0	22.97	22.95	22.94	23.00	1
		1	50	22.78	22.84	22.83	23.00	1
		1	99	22.86	22.77	22.81	23.00	1
		50	0	21.90	21.91	21.84	22.00	2
		50	25	21.91	21.81	21.85	22.00	2
20	64-QAM	50	50	21.84	21.82	21.82	22.00	2
		100	0	21.91	21.91	21.74	22.00	2
		1	0	21.96	21.92	21.87	22.00	2
		1	50	21.80	21.89	21.92	22.00	2
		1	99	21.87	21.89	21.89	22.00	2
		50	0	20.83	20.77	20.89	21.00	3
20	64-QAM	50	25	20.82	20.88	20.90	21.00	3
		50	50	20.82	20.86	20.77	21.00	3
		100	0	20.77	20.88	20.77	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1857.5	1880	1902.5			
Channel			18675	18900	19125			
15	QPSK	1	0	23.85	23.93	23.95	24.00	0
		1	36	23.79	23.94	23.75	24.00	0
		1	74	23.76	23.83	23.93	24.00	0
		36	0	22.77	22.82	22.82	23.00	1
		36	18	22.87	22.78	22.91	23.00	1
		36	37	22.82	22.91	22.92	23.00	1
		75	0	22.89	22.77	22.94	23.00	1
15	16-QAM	1	0	22.76	22.81	22.80	23.00	1
		1	36	22.95	22.89	22.82	23.00	1
		1	74	22.91	22.76	22.89	23.00	1
		36	0	21.78	21.94	21.83	22.00	2
		36	18	21.94	21.91	21.79	22.00	2
		36	37	21.76	21.84	21.88	22.00	2
		75	0	21.78	21.81	21.90	22.00	2
15	64-QAM	1	0	21.81	21.78	21.84	22.00	2
		1	36	21.76	21.83	21.78	22.00	2
		1	74	21.92	21.89	21.92	22.00	2
		36	0	20.94	20.87	20.80	21.00	3
		36	18	20.76	20.89	20.81	21.00	3
		36	37	20.78	20.89	20.77	21.00	3
		75	0	20.92	20.93	20.81	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	23.94	23.87	23.82	24.00	0
		1	25	23.86	23.94	23.93	24.00	0
		1	49	23.85	23.84	23.85	24.00	0
		25	0	22.82	22.77	22.91	23.00	1
		25	12	22.79	22.83	22.79	23.00	1
		25	25	22.93	22.87	22.82	23.00	1
		50	0	22.86	22.88	22.75	23.00	1
10	16-QAM	1	0	22.78	22.86	22.84	23.00	1
		1	25	22.75	22.94	22.86	23.00	1
		1	49	22.81	22.90	22.90	23.00	1
		25	0	21.83	21.93	21.92	22.00	2
		25	12	21.78	21.77	21.87	22.00	2
		25	25	21.91	21.95	21.87	22.00	2
		50	0	21.81	21.77	21.84	22.00	2
10	64-QAM	1	0	21.88	21.92	21.82	22.00	2
		1	25	21.79	21.90	21.77	22.00	2
		1	49	21.82	21.81	21.78	22.00	2
		25	0	20.85	20.80	20.78	21.00	3
		25	12	20.83	20.81	20.82	21.00	3
		25	25	20.90	20.93	20.79	21.00	3
		50	0	20.81	20.86	20.83	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1852.5	1880	1907.5			
Channel			18625	18900	19175			
5	QPSK	1	0	23.86	23.94	23.82	24.00	0
		1	12	23.75	23.81	23.84	24.00	0
		1	24	23.94	23.83	23.93	24.00	0
		12	0	22.84	22.93	22.76	23.00	1
		12	6	22.83	22.86	22.79	23.00	1
		12	13	22.84	22.75	22.87	23.00	1
		25	0	22.94	22.87	22.85	23.00	1
5	16-QAM	1	0	22.87	22.91	22.92	23.00	1
		1	12	22.80	22.92	22.92	23.00	1
		1	24	22.77	22.77	22.81	23.00	1
		12	0	21.84	21.79	21.90	22.00	2
		12	6	21.80	21.82	21.94	22.00	2
		12	13	21.89	21.92	21.93	22.00	2
		25	0	21.94	21.84	21.92	22.00	2
5	64-QAM	1	0	21.95	21.93	21.80	22.00	2
		1	12	21.82	21.78	21.89	22.00	2
		1	24	21.91	21.77	21.91	22.00	2
		12	0	20.95	20.84	20.81	21.00	3
		12	6	20.94	20.80	20.78	21.00	3
		12	13	20.93	20.89	20.78	21.00	3
		25	0	20.79	20.81	20.85	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1851.5	1880	1908.5			
Channel			18615	18900	19185			
3	QPSK	1	0	23.76	23.79	23.79	24.00	0
		1	7	23.76	23.90	23.79	24.00	0
		1	14	23.84	23.95	23.91	24.00	0
		8	0	22.91	22.87	22.85	23.00	1
		8	4	22.75	22.94	22.87	23.00	1
		8	7	22.84	22.92	22.91	23.00	1
		15	0	22.84	22.81	22.79	23.00	1
3	16-QAM	1	0	22.75	22.78	22.95	23.00	1
		1	7	22.95	22.79	22.80	23.00	1
		1	14	22.84	22.88	22.81	23.00	1
		8	0	21.78	21.83	21.87	22.00	2
		8	4	21.80	21.87	21.80	22.00	2
		8	7	21.79	21.84	21.88	22.00	2
		15	0	21.84	21.86	21.80	22.00	2
3	64-QAM	1	0	21.75	21.77	21.87	22.00	2
		1	7	21.80	21.93	21.94	22.00	2
		1	14	21.77	21.90	21.76	22.00	2
		8	0	20.85	20.84	20.94	21.00	3
		8	4	20.78	20.90	20.87	21.00	3
		8	7	20.84	20.95	20.95	21.00	3
		15	0	20.81	20.81	20.90	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1880	1909.3		
Channel				18607	18900	19193		
1.4	QPSK	1	0	23.94	23.91	23.79	24.00	0
		1	2	23.79	23.88	23.85	24.00	0
		1	5	23.77	23.80	23.79	24.00	0
		3	0	22.76	22.80	22.81	24.00	0
		3	2	22.79	22.81	22.75	24.00	0
		3	3	22.84	22.92	22.93	24.00	0
1.4	16-QAM	6	0	22.83	22.93	22.89	23.00	1
		1	0	22.82	22.79	22.94	23.00	1
		1	2	22.81	22.76	22.85	23.00	1
		1	5	22.93	22.83	22.87	23.00	1
		3	0	21.78	21.75	21.80	23.00	1
		3	2	21.92	21.88	21.81	23.00	1
1.4	64-QAM	3	3	21.86	21.82	21.90	23.00	1
		6	0	21.82	21.84	21.85	22.00	2
		1	0	21.76	21.88	21.93	22.00	2
		1	2	21.79	21.82	21.81	22.00	2
		1	5	21.77	21.80	21.93	22.00	2
		3	0	20.86	20.82	20.79	22.00	2
1.4	64-QAM	3	2	20.91	20.93	20.90	22.00	2
		3	3	20.89	20.88	20.77	22.00	2
		6	0	20.93	20.88	20.84	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	23.97	23.89	23.91	24.00	0
		1	50	23.88	23.81	23.80	24.00	0
		1	99	23.72	23.75	23.77	24.00	0
		50	0	22.83	22.75	22.85	23.00	1
		50	25	22.72	22.84	22.82	23.00	1
		50	50	22.91	22.80	22.87	23.00	1
		100	0	22.90	22.74	22.76	23.00	1
20	16-QAM	1	0	22.82	22.75	22.83	23.00	1
		1	50	22.89	22.77	22.74	23.00	1
		1	99	22.90	22.89	22.72	23.00	1
		50	0	21.83	21.75	21.86	22.00	2
		50	25	21.80	21.75	21.74	22.00	2
		50	50	21.79	21.83	21.75	22.00	2
		100	0	21.75	21.84	21.76	22.00	2
20	64-QAM	1	0	21.78	21.82	21.89	22.00	2
		1	50	21.77	21.79	21.71	22.00	2
		1	99	21.78	21.75	21.84	22.00	2
		50	0	20.90	20.76	20.88	21.00	3
		50	25	20.81	20.71	20.84	21.00	3
		50	50	20.83	20.72	20.73	21.00	3
		100	0	20.84	20.90	20.74	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	23.79	23.86	23.75	24.00	0
		1	36	23.71	23.85	23.72	24.00	0
		1	74	23.84	23.84	23.76	24.00	0
		36	0	22.86	22.79	22.73	23.00	1
		36	18	22.89	22.81	22.87	23.00	1
		36	37	22.78	22.87	22.80	23.00	1
		75	0	22.77	22.90	22.83	23.00	1
15	16-QAM	1	0	22.84	22.72	22.81	23.00	1
		1	36	22.79	22.85	22.87	23.00	1
		1	74	22.87	22.78	22.80	23.00	1
		36	0	21.85	21.90	21.82	22.00	2
		36	18	21.79	21.85	21.88	22.00	2
		36	37	21.76	21.79	21.75	22.00	2
		75	0	21.88	21.74	21.85	22.00	2
15	64-QAM	1	0	21.73	21.72	21.72	22.00	2
		1	36	21.89	21.78	21.83	22.00	2
		1	74	21.73	21.86	21.89	22.00	2
		36	0	20.77	20.79	20.82	21.00	3
		36	18	20.88	20.86	20.72	21.00	3
		36	37	20.86	20.85	20.89	21.00	3
		75	0	20.81	20.72	20.91	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	23.88	23.90	23.87	24.00	0
		1	25	23.86	23.85	23.83	24.00	0
		1	49	23.83	23.80	23.86	24.00	0
		25	0	22.88	22.89	22.87	23.00	1
		25	12	22.73	22.74	22.84	23.00	1
		25	25	22.79	22.72	22.84	23.00	1
10	16-QAM	1	0	22.74	22.74	22.82	23.00	1
		1	25	22.81	22.87	22.88	23.00	1
		1	49	22.84	22.73	22.87	23.00	1
		25	0	21.90	21.87	21.82	22.00	2
		25	12	21.72	21.79	21.88	22.00	2
		25	25	21.76	21.86	21.75	22.00	2
10	64-QAM	1	0	21.90	21.87	21.79	22.00	2
		1	25	21.90	21.78	21.79	22.00	2
		1	49	21.73	21.89	21.78	22.00	2
		25	0	20.78	20.83	20.80	21.00	3
		25	12	20.88	20.87	20.87	21.00	3
		25	25	20.77	20.77	20.79	21.00	3
		50	0	20.78	20.88	20.72	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	23.77	23.87	23.86	24.00	0
		1	12	23.85	23.76	23.79	24.00	0
		1	24	23.82	23.89	23.79	24.00	0
		12	0	22.88	22.76	22.89	23.00	1
		12	6	22.77	22.76	22.78	23.00	1
		12	13	22.75	22.72	22.77	23.00	1
		25	0	22.89	22.71	22.88	23.00	1
5	16-QAM	1	0	22.77	22.86	22.73	23.00	1
		1	12	22.76	22.88	22.85	23.00	1
		1	24	22.86	22.87	22.88	23.00	1
		12	0	21.87	21.72	21.71	22.00	2
		12	6	21.71	21.78	21.84	22.00	2
		12	13	21.76	21.80	21.79	22.00	2
		25	0	21.85	21.86	21.79	22.00	2
5	64-QAM	1	0	21.77	21.89	21.80	22.00	2
		1	12	21.84	21.83	21.72	22.00	2
		1	24	21.87	21.80	21.73	22.00	2
		12	0	20.80	20.74	20.83	21.00	3
		12	6	20.91	20.76	20.87	21.00	3
		12	13	20.75	20.79	20.86	21.00	3
		25	0	20.81	20.71	20.87	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	23.88	23.83	23.75	24.00	0
		1	7	23.81	23.87	23.72	24.00	0
		1	14	23.91	23.81	23.73	24.00	0
		8	0	22.91	22.82	22.80	23.00	1
		8	4	22.84	22.81	22.86	23.00	1
		8	7	22.72	22.81	22.81	23.00	1
		15	0	22.86	22.76	22.79	23.00	1
3	16-QAM	1	0	22.77	22.89	22.91	23.00	1
		1	7	22.76	22.82	22.79	23.00	1
		1	14	22.85	22.85	22.91	23.00	1
		8	0	21.84	21.88	21.77	22.00	2
		8	4	21.73	21.76	21.86	22.00	2
		8	7	21.86	21.74	21.72	22.00	2
		15	0	21.86	21.79	21.84	22.00	2
3	64-QAM	1	0	21.86	21.71	21.74	22.00	2
		1	7	21.78	21.77	21.75	22.00	2
		1	14	21.87	21.90	21.73	22.00	2
		8	0	20.83	20.85	20.76	21.00	3
		8	4	20.72	20.76	20.78	21.00	3
		8	7	20.87	20.80	20.77	21.00	3
		15	0	20.71	20.90	20.84	21.00	3

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	23.87	23.76	23.85	24.00	0
		1	2	23.91	23.80	23.79	24.00	0
		1	5	23.85	23.88	23.76	24.00	0
		3	0	22.81	22.90	22.74	24.00	0
		3	2	22.76	22.90	22.86	24.00	0
		3	3	22.88	22.72	22.84	24.00	0
		6	0	22.86	22.77	22.79	23.00	1
1.4	16-QAM	1	0	22.75	22.73	22.76	23.00	1
		1	2	22.84	22.75	22.88	23.00	1
		1	5	22.74	22.80	22.86	23.00	1
		3	0	21.86	21.83	21.71	23.00	1
		3	2	21.77	21.85	21.72	23.00	1
		3	3	21.90	21.86	21.74	23.00	1
		6	0	21.72	21.71	21.80	22.00	2
1.4	64-QAM	1	0	21.88	21.72	21.75	22.00	2
		1	2	21.73	21.75	21.81	22.00	2
		1	5	21.88	21.89	21.71	22.00	2
		3	0	20.90	20.82	20.72	22.00	2
		3	2	20.74	20.77	20.72	22.00	2
		3	3	20.87	20.83	20.87	22.00	2
		6	0	20.86	20.89	20.82	21.00	3

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	23.89	23.91	23.87	24.00	0
		1	25	23.71	23.69	23.84	24.00	0
		1	49	23.74	23.83	23.80	24.00	0
		25	0	22.69	22.65	22.90	23.00	1
		25	12	22.77	22.84	22.84	23.00	1
		25	25	22.81	22.83	22.78	23.00	1
10	16-QAM	1	0	22.72	22.73	22.77	23.00	1
		1	25	22.65	22.68	22.70	23.00	1
		1	49	22.73	22.79	22.79	23.00	1
		25	0	21.80	21.68	21.84	22.00	2
		25	12	21.80	21.72	21.74	22.00	2
		25	25	21.69	21.81	21.84	22.00	2
10	64-QAM	1	0	21.82	21.67	21.65	22.00	2
		1	25	21.66	21.74	21.73	22.00	2
		1	49	21.82	21.76	21.69	22.00	2
		25	0	20.80	20.77	20.66	21.00	3
		25	12	20.81	20.82	20.75	21.00	3
		25	25	20.72	20.85	20.72	21.00	3
		50	0	20.80	20.80	20.79	21.00	3

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.76	23.84	23.69	24.00	0
		1	12	23.82	23.83	23.72	24.00	0
		1	24	23.80	23.71	23.81	24.00	0
		12	0	22.67	22.83	22.70	23.00	1
		12	6	22.80	22.83	22.85	23.00	1
		12	13	22.68	22.79	22.75	23.00	1
		25	0	22.85	22.83	22.80	23.00	1
5	16-QAM	1	0	22.76	22.81	22.75	23.00	1
		1	12	22.69	22.82	22.79	23.00	1
		1	24	22.71	22.76	22.72	23.00	1
		12	0	21.82	21.79	21.80	22.00	2
		12	6	21.79	21.66	21.73	22.00	2
		12	13	21.65	21.69	21.73	22.00	2
		25	0	21.85	21.71	21.81	22.00	2
5	64-QAM	1	0	21.77	21.76	21.73	22.00	2
		1	12	21.72	21.80	21.81	22.00	2
		1	24	21.67	21.73	21.80	22.00	2
		12	0	20.75	20.84	20.69	21.00	3
		12	6	20.83	20.70	20.84	21.00	3
		12	13	20.78	20.76	20.68	21.00	3
		25	0	20.73	20.67	20.69	21.00	3

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				825.5	836.5	847.5		
Channel				20415	20525	20635		
3	QPSK	1	0	23.66	23.69	23.72	24.00	0
		1	7	23.79	23.76	23.67	24.00	0
		1	14	23.79	23.85	23.75	24.00	0
		8	0	22.82	22.68	22.67	23.00	1
		8	4	22.66	22.67	22.68	23.00	1
		8	7	22.68	22.76	22.75	23.00	1
		15	0	22.73	22.81	22.70	23.00	1
3	16-QAM	1	0	22.66	22.71	22.69	23.00	1
		1	7	22.69	22.71	22.68	23.00	1
		1	14	22.81	22.75	22.70	23.00	1
		8	0	21.83	21.67	21.69	22.00	2
		8	4	21.66	21.84	21.75	22.00	2
		8	7	21.76	21.81	21.77	22.00	2
		15	0	21.72	21.77	21.75	22.00	2
3	64-QAM	1	0	21.74	21.79	21.78	22.00	2
		1	7	21.80	21.78	21.67	22.00	2
		1	14	21.69	21.84	21.79	22.00	2
		8	0	20.82	20.68	20.70	21.00	3
		8	4	20.83	20.82	20.82	21.00	3
		8	7	20.75	20.82	20.71	21.00	3
		15	0	20.76	20.69	20.81	21.00	3

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	23.79	23.72	23.68	24.00	0
		1	2	23.65	23.81	23.73	24.00	0
		1	5	23.72	23.70	23.82	24.00	0
		3	0	23.80	23.75	23.67	24.00	0
		3	2	23.75	23.77	23.74	24.00	0
		3	3	23.70	23.68	23.69	24.00	0
1.4	16-QAM	6	0	22.81	22.75	22.66	23.00	1
		1	0	22.66	22.77	22.77	23.00	1
		1	2	22.69	22.65	22.71	23.00	1
		1	5	22.80	22.70	22.79	23.00	1
		3	0	22.81	22.74	22.79	23.00	1
		3	2	22.68	22.68	22.78	23.00	1
1.4	64-QAM	3	3	22.76	22.72	22.80	23.00	1
		6	0	21.81	21.68	21.71	22.00	2
		1	0	21.73	21.71	21.71	22.00	2
		1	2	21.75	21.68	21.73	22.00	2
		1	5	21.69	21.79	21.66	22.00	2
		3	0	21.79	21.72	21.66	22.00	2
1.4	64-QAM	3	2	21.68	21.79	21.74	22.00	2
		3	3	21.80	21.71	21.81	22.00	2
		6	0	20.67	20.85	20.73	21.00	3

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2510	2535	2560			
Channel			20850	21100	21350			
20	QPSK	1	0	23.77	23.64	23.58	24.00	0
		1	50	23.43	23.35	23.46	24.00	0
		1	99	23.43	23.53	23.44	24.00	0
		50	0	22.37	22.47	22.35	23.00	1
		50	25	22.45	22.47	22.40	23.00	1
		50	50	22.50	22.45	22.39	23.00	1
20	16-QAM	100	0	22.49	22.41	22.39	23.00	1
		1	0	22.46	22.50	22.36	23.00	1
		1	50	22.52	22.48	22.47	23.00	1
		1	99	22.50	22.37	22.53	23.00	1
		50	0	21.39	21.44	21.36	22.00	2
		50	25	21.37	21.44	21.50	22.00	2
20	64-QAM	50	50	21.36	21.50	21.39	22.00	2
		100	0	21.35	21.50	21.48	22.00	2
		1	0	21.47	21.51	21.38	22.00	2
		1	50	21.43	21.50	21.40	22.00	2
		1	99	21.52	21.41	21.45	22.00	2
		50	0	20.53	20.51	20.42	21.00	3
20	64-QAM	50	25	20.35	20.39	20.47	21.00	3
		50	50	20.36	20.49	20.44	21.00	3
		100	0	20.51	20.51	20.53	21.00	3

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2507.5	2535	2562.5			
Channel			20825	21100	21375			
15	QPSK	1	0	23.48	23.51	23.51	24.00	0
		1	36	23.40	23.49	23.52	24.00	0
		1	74	23.41	23.54	23.44	24.00	0
		36	0	22.49	22.39	22.40	23.00	1
		36	18	22.52	22.55	22.52	23.00	1
		36	37	22.39	22.38	22.45	23.00	1
		75	0	22.36	22.38	22.45	23.00	1
15	16-QAM	1	0	22.40	22.50	22.36	23.00	1
		1	36	22.36	22.42	22.41	23.00	1
		1	74	22.44	22.45	22.51	23.00	1
		36	0	21.40	21.41	21.41	22.00	2
		36	18	21.40	21.49	21.45	22.00	2
		36	37	21.42	21.38	21.40	22.00	2
		75	0	21.41	21.48	21.50	22.00	2
15	64-QAM	1	0	21.42	21.47	21.49	22.00	2
		1	36	21.47	21.52	21.41	22.00	2
		1	74	21.42	21.46	21.36	22.00	2
		36	0	20.37	20.41	20.37	21.00	3
		36	18	20.55	20.43	20.46	21.00	3
		36	37	20.53	20.37	20.53	21.00	3
		75	0	20.46	20.39	20.45	21.00	3

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2505	2535	2565			
Channel			20800	21100	21400			
10	QPSK	1	0	23.40	23.46	23.35	24.00	0
		1	25	23.44	23.36	23.46	24.00	0
		1	49	23.44	23.44	23.37	24.00	0
		25	0	22.54	22.44	22.42	23.00	1
		25	12	22.55	22.46	22.40	23.00	1
		25	25	22.54	22.53	22.43	23.00	1
10	16-QAM	1	0	22.50	22.39	22.45	23.00	1
		1	25	22.48	22.46	22.53	23.00	1
		1	49	22.52	22.40	22.45	23.00	1
		25	0	21.38	21.37	21.46	22.00	2
		25	12	21.45	21.41	21.53	22.00	2
		25	25	21.45	21.46	21.54	22.00	2
10	64-QAM	1	0	21.47	21.43	21.38	22.00	2
		1	25	21.50	21.41	21.37	22.00	2
		1	49	21.52	21.48	21.52	22.00	2
		25	0	20.53	20.44	20.37	21.00	3
		25	12	20.36	20.49	20.48	21.00	3
		25	25	20.41	20.36	20.36	21.00	3
		50	0	20.39	20.44	20.52	21.00	3

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2502.5	2535	2567.5			
Channel			20775	21100	21425			
5	QPSK	1	0	23.41	23.41	23.50	24.00	0
		1	12	23.39	23.47	23.36	24.00	0
		1	24	23.42	23.44	23.41	24.00	0
		12	0	22.52	22.39	22.41	23.00	1
		12	6	22.46	22.46	22.47	23.00	1
		12	13	22.53	22.52	22.36	23.00	1
		25	0	22.50	22.40	22.47	23.00	1
5	16-QAM	1	0	22.48	22.39	22.40	23.00	1
		1	12	22.51	22.50	22.51	23.00	1
		1	24	22.50	22.37	22.54	23.00	1
		12	0	21.45	21.52	21.48	22.00	2
		12	6	21.43	21.36	21.52	22.00	2
		12	13	21.36	21.51	21.39	22.00	2
		25	0	21.52	21.44	21.47	22.00	2
5	64-QAM	1	0	21.53	21.36	21.41	22.00	2
		1	12	21.48	21.50	21.52	22.00	2
		1	24	21.52	21.43	21.45	22.00	2
		12	0	20.55	20.41	20.35	21.00	3
		12	6	20.47	20.43	20.35	21.00	3
		12	13	20.44	20.51	20.52	21.00	3
		25	0	20.35	20.43	20.53	21.00	3

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	23.12	23.08	23.02	24.00	0
		1	25	23.04	23.11	23.09	24.00	0
		1	49	22.99	23.08	23.03	24.00	0
		25	0	22.05	21.96	22.12	23.00	1
		25	12	21.97	22.04	21.96	23.00	1
		25	25	22.04	22.00	22.14	23.00	1
10	16-QAM	1	0	22.13	22.14	22.03	23.00	1
		1	25	22.12	22.14	22.02	23.00	1
		1	49	21.99	22.08	22.02	23.00	1
		25	0	20.97	20.97	21.05	22.00	2
		25	12	20.99	21.10	20.97	22.00	2
		25	25	20.99	21.15	20.95	22.00	2
10	64-QAM	1	0	21.03	21.07	21.12	22.00	2
		1	25	20.96	20.96	21.12	22.00	2
		1	49	20.98	21.14	21.10	22.00	2
		25	0	20.03	20.11	19.98	21.00	3
		25	12	20.09	20.09	19.98	21.00	3
		25	25	20.13	19.99	20.10	21.00	3
		50	0	20.10	20.09	20.11	21.00	3

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				701.5	707.5	713.5		
Channel				23035	23095	23155		
5	QPSK	1	0	22.97	23.01	22.93	24.00	0
		1	12	23.05	23.11	23.10	24.00	0
		1	24	23.05	22.99	22.99	24.00	0
		12	0	21.99	21.94	22.00	23.00	1
		12	6	22.12	22.02	22.12	23.00	1
		12	13	22.13	22.04	21.99	23.00	1
		25	0	22.01	22.08	22.03	23.00	1
5	16-QAM	1	0	22.01	21.92	22.01	23.00	1
		1	12	22.14	21.94	22.11	23.00	1
		1	24	22.03	22.11	21.94	23.00	1
		12	0	21.04	21.09	20.98	22.00	2
		12	6	20.99	20.94	21.05	22.00	2
		12	13	21.01	21.00	21.07	22.00	2
		25	0	21.03	21.03	20.97	22.00	2
5	64-QAM	1	0	20.97	21.05	21.00	22.00	2
		1	12	21.03	21.04	20.94	22.00	2
		1	24	21.11	20.94	21.07	22.00	2
		12	0	20.00	20.07	20.05	21.00	3
		12	6	20.03	20.02	20.08	21.00	3
		12	13	20.15	20.02	19.96	21.00	3
		25	0	20.12	20.09	20.05	21.00	3

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				700.5	707.5	714.5		
Channel				23025	23095	23165		
3	QPSK	1	0	23.11	23.09	23.04	24.00	0
		1	7	22.97	23.02	22.95	24.00	0
		1	14	23.00	23.08	23.11	24.00	0
		8	0	21.94	22.00	22.11	23.00	1
		8	4	22.09	21.94	21.96	23.00	1
		8	7	22.08	21.95	22.02	23.00	1
		15	0	22.09	21.99	22.04	23.00	1
3	16-QAM	1	0	22.11	22.07	22.04	23.00	1
		1	7	21.97	21.94	22.03	23.00	1
		1	14	22.08	21.98	22.11	23.00	1
		8	0	21.02	21.05	20.96	22.00	2
		8	4	21.03	21.11	21.11	22.00	2
		8	7	21.02	21.10	21.03	22.00	2
		15	0	21.02	21.07	21.02	22.00	2
3	64-QAM	1	0	20.97	21.02	20.93	22.00	2
		1	7	21.07	21.04	21.04	22.00	2
		1	14	21.01	21.02	21.03	22.00	2
		8	0	20.01	20.11	19.93	21.00	3
		8	4	19.97	20.09	19.97	21.00	3
		8	7	20.01	19.94	19.94	21.00	3
		15	0	19.94	20.00	19.97	21.00	3

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				699.7	707.5	715.3		
Channel				23017	23095	23173		
1.4	QPSK	1	0	23.05	23.03	22.96	24.00	0
		1	2	22.98	23.06	23.06	24.00	0
		1	5	23.01	23.01	22.93	24.00	0
		3	0	22.94	22.98	23.03	24.00	0
		3	2	23.00	22.94	23.06	24.00	0
		3	3	22.96	23.10	23.06	24.00	0
1.4	16-QAM	6	0	22.10	22.06	22.06	23.00	1
		1	0	22.06	22.07	22.03	23.00	1
		1	2	22.02	22.06	21.95	23.00	1
		1	5	22.04	21.98	22.09	23.00	1
		3	0	21.94	22.11	22.10	23.00	1
		3	2	22.01	21.98	22.06	23.00	1
1.4	64-QAM	3	3	22.11	21.95	22.11	23.00	1
		6	0	21.05	21.11	21.06	22.00	2
		1	0	21.02	20.98	21.11	22.00	2
		1	2	21.03	21.06	21.00	22.00	2
		1	5	21.05	20.94	21.09	22.00	2
		3	0	20.94	21.12	21.03	22.00	2
1.4	64-QAM	3	2	20.98	20.93	21.04	22.00	2
		3	3	21.11	20.99	21.03	22.00	2
		6	0	20.05	19.95	19.98	21.00	3

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				-	782	-		
Channel				-	23230	-		
10	QPSK	1	0		23.31		24.00	0
		1	25		23.27		24.00	0
		1	49		23.29		24.00	0
		25	0		22.22		23.00	1
		25	12		22.25		23.00	1
		25	25		22.13		23.00	1
		50	0		22.24		23.00	1
10	16-QAM	1	0		22.12		23.00	1
		1	25		22.14		23.00	1
		1	49		22.14		23.00	1
		25	0		21.20		22.00	2
		25	12		21.09		22.00	2
		25	25		21.28		22.00	2
		50	0		21.22		22.00	2
10	64-QAM	1	0		21.19		22.00	2
		1	25		21.12		22.00	2
		1	49		21.26		22.00	2
		25	0		20.26		21.00	3
		25	12		20.26		21.00	3
		25	25		20.25		21.00	3
		50	0		20.21		21.00	3

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				779.5	782	784.5		
Channel				23205	23230	23255		
5	QPSK	1	0	23.17	23.22	23.24	24.00	0
		1	12	23.17	23.17	23.23	24.00	0
		1	24	23.16	23.22	23.23	24.00	0
		12	0	22.20	22.21	22.26	23.00	1
		12	6	22.29	22.14	22.21	23.00	1
		12	13	22.27	22.21	22.19	23.00	1
		25	0	22.13	22.14	22.19	23.00	1
5	16-QAM	1	0	22.24	22.29	22.16	23.00	1
		1	12	22.27	22.11	22.22	23.00	1
		1	24	22.15	22.28	22.15	23.00	1
		12	0	21.18	21.12	21.27	22.00	2
		12	6	21.22	21.17	21.25	22.00	2
		12	13	21.13	21.25	21.16	22.00	2
		25	0	21.28	21.29	21.14	22.00	2
5	64-QAM	1	0	21.19	21.19	21.22	22.00	2
		1	12	21.20	21.18	21.10	22.00	2
		1	24	21.13	21.27	21.29	22.00	2
		12	0	20.23	20.14	20.10	21.00	3
		12	6	20.11	20.25	20.10	21.00	3
		12	13	20.19	20.13	20.28	21.00	3
		25	0	20.21	20.11	20.11	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1882.5	1905		
Channel				26140	26365	26590		
20	QPSK	1	0	23.11	23.15	23.09	24.00	0
		1	50	23.04	22.94	23.07	24.00	0
		1	99	22.95	23.05	23.02	24.00	0
		50	0	21.95	21.91	22.05	23.00	1
		50	25	22.02	21.95	21.98	23.00	1
		50	50	21.93	22.08	22.02	23.00	1
		100	0	21.97	21.97	22.08	23.00	1
20	16-QAM	1	0	22.01	21.93	21.99	23.00	1
		1	50	22.05	21.98	22.03	23.00	1
		1	99	21.95	22.07	22.00	23.00	1
		50	0	21.04	21.04	20.90	22.00	2
		50	25	21.07	20.92	20.91	22.00	2
		50	50	20.89	20.92	21.07	22.00	2
		100	0	20.99	21.06	21.01	22.00	2
20	64-QAM	1	0	20.99	21.01	20.98	22.00	2
		1	50	20.89	20.97	21.07	22.00	2
		1	99	20.93	20.90	20.93	22.00	2
		50	0	20.02	19.91	19.94	21.00	3
		50	25	19.98	20.02	20.05	21.00	3
		50	50	19.98	19.94	20.09	21.00	3
		100	0	20.06	19.91	20.00	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
Channel				26115	26365	26615		
15	QPSK	1	0	23.08	23.05	23.07	24.00	0
		1	36	23.08	23.06	23.08	24.00	0
		1	74	22.90	23.03	23.08	24.00	0
		36	0	22.06	22.05	21.92	23.00	1
		36	18	22.00	22.01	21.90	23.00	1
		36	37	22.06	21.90	21.99	23.00	1
		75	0	22.04	22.06	22.05	23.00	1
15	16-QAM	1	0	21.98	21.92	21.99	23.00	1
		1	36	22.07	22.04	22.06	23.00	1
		1	74	22.02	21.94	21.91	23.00	1
		36	0	20.95	21.09	20.93	22.00	2
		36	18	21.09	21.04	21.00	22.00	2
		36	37	20.94	21.08	21.05	22.00	2
		75	0	21.07	20.91	20.99	22.00	2
15	64-QAM	1	0	21.08	21.06	20.92	22.00	2
		1	36	21.01	20.91	20.96	22.00	2
		1	74	20.90	20.89	21.04	22.00	2
		36	0	19.89	20.04	20.07	21.00	3
		36	18	20.05	19.99	19.97	21.00	3
		36	37	19.99	20.02	19.92	21.00	3
		75	0	19.95	20.05	20.00	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1882.5	1910			
Channel			26090	26365	26640			
10	QPSK	1	0	23.01	23.06	23.07	24.00	0
		1	25	23.02	23.07	22.95	24.00	0
		1	49	23.06	23.07	23.07	24.00	0
		25	0	22.06	22.00	22.03	23.00	1
		25	12	21.92	22.09	21.94	23.00	1
		25	25	22.01	21.95	21.97	23.00	1
10	16-QAM	1	0	21.96	22.00	21.98	23.00	1
		1	25	22.09	22.03	21.94	23.00	1
		1	49	22.03	21.92	22.07	23.00	1
		25	0	20.90	20.99	21.02	22.00	2
		25	12	21.04	21.01	21.00	22.00	2
		25	25	21.04	21.03	20.93	22.00	2
10	64-QAM	1	0	21.04	20.92	21.00	22.00	2
		1	25	21.02	21.00	20.95	22.00	2
		1	49	21.03	20.99	21.07	22.00	2
		25	0	20.07	20.04	19.94	21.00	3
		25	12	20.06	19.92	19.95	21.00	3
		25	25	20.02	20.00	19.94	21.00	3
		50	0	20.08	19.95	19.91	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1852.5	1882.5	1912.5			
Channel			26065	26365	26665			
5	QPSK	1	0	22.97	22.95	22.94	24.00	0
		1	12	22.98	23.07	23.08	24.00	0
		1	24	23.06	23.04	22.91	24.00	0
		12	0	22.03	21.91	22.03	23.00	1
		12	6	22.04	21.98	21.90	23.00	1
		12	13	22.04	21.92	22.05	23.00	1
		25	0	21.89	21.91	22.07	23.00	1
5	16-QAM	1	0	22.02	21.91	21.91	23.00	1
		1	12	22.07	22.01	21.97	23.00	1
		1	24	22.08	21.98	22.01	23.00	1
		12	0	20.96	20.96	21.03	22.00	2
		12	6	21.02	21.00	21.06	22.00	2
		12	13	21.07	21.06	21.06	22.00	2
		25	0	20.92	21.05	21.03	22.00	2
5	64-QAM	1	0	20.99	20.90	21.06	22.00	2
		1	12	21.06	21.01	20.94	22.00	2
		1	24	21.02	20.92	20.92	22.00	2
		12	0	19.92	20.00	19.95	21.00	3
		12	6	19.98	20.00	20.02	21.00	3
		12	13	19.92	20.07	19.95	21.00	3
		25	0	20.09	20.01	19.90	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1882.5	1913.5		
Channel				26055	26365	26675		
3	QPSK	1	0	23.02	22.92	23.08	24.00	0
		1	7	22.90	22.97	23.03	24.00	0
		1	14	22.97	23.04	22.96	24.00	0
		8	0	21.97	21.89	21.96	23.00	1
		8	4	21.90	21.92	22.08	23.00	1
		8	7	22.03	21.90	22.07	23.00	1
		15	0	22.08	21.96	21.95	23.00	1
3	16-QAM	1	0	22.02	21.99	21.97	23.00	1
		1	7	22.09	22.02	21.96	23.00	1
		1	14	21.95	21.94	22.01	23.00	1
		8	0	20.98	20.90	21.02	22.00	2
		8	4	20.96	20.92	20.95	22.00	2
		8	7	21.01	21.02	21.04	22.00	2
		15	0	20.96	20.94	20.93	22.00	2
3	64-QAM	1	0	21.07	20.98	20.94	22.00	2
		1	7	21.01	20.93	21.04	22.00	2
		1	14	21.07	20.94	20.96	22.00	2
		8	0	19.99	19.97	19.98	21.00	3
		8	4	19.94	20.07	19.96	21.00	3
		8	7	20.05	19.95	20.00	21.00	3
		15	0	19.95	19.94	20.00	21.00	3

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1882.5	1914.3		
Channel				26047	26365	26683		
1.4	QPSK	1	0	23.03	23.07	22.96	24.00	0
		1	2	23.01	22.95	23.05	24.00	0
		1	5	22.98	23.09	22.93	24.00	0
		3	0	22.90	22.97	23.03	24.00	0
		3	2	22.92	22.97	22.96	24.00	0
		3	3	22.92	23.05	22.96	24.00	0
		6	0	22.04	22.07	21.92	23.00	1
1.4	16-QAM	1	0	21.94	22.03	22.07	23.00	1
		1	2	22.02	21.99	21.97	23.00	1
		1	5	21.91	22.02	21.97	23.00	1
		3	0	21.98	22.05	22.04	23.00	1
		3	2	21.93	21.91	22.06	23.00	1
		3	3	22.09	22.09	22.02	23.00	1
		6	0	21.00	21.02	21.02	22.00	2
1.4	64-QAM	1	0	20.91	20.93	20.90	22.00	2
		1	2	21.06	20.90	21.07	22.00	2
		1	5	21.09	20.94	21.07	22.00	2
		3	0	21.04	21.03	20.98	22.00	2
		3	2	20.98	20.99	21.02	22.00	2
		3	3	20.92	21.03	21.09	22.00	2
		6	0	20.08	20.07	19.91	21.00	3

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				821.5	831.5	841.5		
Channel				26765	26865	26965		
15	QPSK	1	0	23.38	23.41	23.27	24.00	0
		1	36	23.26	23.31	23.16	24.00	0
		1	74	23.24	23.34	23.03	24.00	0
		36	0	22.22	22.26	22.21	23.00	1
		36	18	22.21	22.34	22.08	23.00	1
		36	37	22.21	22.20	22.11	23.00	1
		75	0	22.16	22.21	22.15	23.00	1
15	16-QAM	1	0	22.26	22.28	22.18	23.00	1
		1	36	22.09	22.35	22.06	23.00	1
		1	74	22.12	22.32	22.14	23.00	1
		36	0	21.19	21.27	21.16	22.00	2
		36	18	21.27	21.30	21.05	22.00	2
		36	37	21.20	21.26	21.07	22.00	2
		75	0	21.14	21.28	21.20	22.00	2
15	64-QAM	1	0	21.20	21.32	21.20	22.00	2
		1	36	21.09	21.28	21.11	22.00	2
		1	74	21.13	21.28	21.14	22.00	2
		36	0	20.29	20.32	20.07	21.00	3
		36	18	20.24	20.34	20.08	21.00	3
		36	37	20.23	20.20	20.05	21.00	3
		75	0	20.20	20.31	20.22	21.00	3

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				819	831.5	844		
Channel				26740	26865	26990		
10	QPSK	1	0	23.26	23.13	23.18	24.00	0
		1	25	23.21	23.19	23.09	24.00	0
		1	49	23.14	23.14	23.14	24.00	0
		25	0	22.12	22.23	22.18	23.00	1
		25	12	22.18	22.13	22.11	23.00	1
		25	25	22.10	22.12	22.24	23.00	1
10	16-QAM	1	0	22.21	22.10	22.28	23.00	1
		1	25	22.15	22.15	22.24	23.00	1
		1	49	22.28	22.22	22.25	23.00	1
		25	0	21.13	21.21	21.25	22.00	2
		25	12	21.21	21.15	21.23	22.00	2
		25	25	21.19	21.27	21.28	22.00	2
10	64-QAM	1	0	21.26	21.23	21.25	22.00	2
		1	25	21.20	21.11	21.29	22.00	2
		1	49	21.11	21.11	21.28	22.00	2
		25	0	20.11	20.16	20.23	21.00	3
		25	12	20.27	20.27	20.24	21.00	3
		25	25	20.22	20.27	20.23	21.00	3
		50	0	20.28	20.15	20.13	21.00	3

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				816.5	831.5	846.5		
Channel				26715	26865	27015		
5	QPSK	1	0	23.14	23.25	23.11	24.00	0
		1	12	23.10	23.22	23.19	24.00	0
		1	24	23.22	23.15	23.25	24.00	0
		12	0	22.21	22.15	22.10	23.00	1
		12	6	22.26	22.23	22.09	23.00	1
		12	13	22.23	22.26	22.23	23.00	1
		25	0	22.16	22.10	22.20	23.00	1
5	16-QAM	1	0	22.11	22.23	22.12	23.00	1
		1	12	22.11	22.21	22.19	23.00	1
		1	24	22.29	22.25	22.28	23.00	1
		12	0	21.15	21.12	21.26	22.00	2
		12	6	21.28	21.21	21.11	22.00	2
		12	13	21.24	21.20	21.24	22.00	2
		25	0	21.14	21.17	21.18	22.00	2
5	64-QAM	1	0	21.11	21.27	21.24	22.00	2
		1	12	21.14	21.25	21.12	22.00	2
		1	24	21.09	21.29	21.14	22.00	2
		12	0	20.14	20.19	20.16	21.00	3
		12	6	20.25	20.23	20.13	21.00	3
		12	13	20.25	20.23	20.17	21.00	3
		25	0	20.20	20.21	20.22	21.00	3

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				815.5	831.5	847.5		
Channel				26705	26865	27025		
3	QPSK	1	0	23.13	23.18	23.20	24.00	0
		1	7	23.25	23.19	23.24	24.00	0
		1	14	23.16	23.19	23.23	24.00	0
		8	0	22.14	22.22	22.13	23.00	1
		8	4	22.27	22.21	22.22	23.00	1
		8	7	22.22	22.26	22.27	23.00	1
		15	0	22.19	22.11	22.18	23.00	1
3	16-QAM	1	0	22.14	22.15	22.22	23.00	1
		1	7	22.11	22.19	22.18	23.00	1
		1	14	22.09	22.18	22.14	23.00	1
		8	0	21.28	21.14	21.20	22.00	2
		8	4	21.17	21.16	21.24	22.00	2
		8	7	21.28	21.18	21.28	22.00	2
		15	0	21.18	21.20	21.29	22.00	2
3	64-QAM	1	0	21.23	21.15	21.09	22.00	2
		1	7	21.16	21.12	21.09	22.00	2
		1	14	21.19	21.24	21.20	22.00	2
		8	0	20.24	20.17	20.16	21.00	3
		8	4	20.17	20.11	20.26	21.00	3
		8	7	20.16	20.20	20.22	21.00	3
		15	0	20.18	20.14	20.17	21.00	3

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				814.7	831.5	848.3		
Channel				26697	26865	27033		
1.4	QPSK	1	0	23.15	23.21	23.18	24.00	0
		1	2	23.16	23.20	23.24	24.00	0
		1	5	23.10	23.20	23.14	24.00	0
		3	0	22.12	22.14	22.18	24.00	0
		3	2	22.16	22.23	22.22	24.00	0
		3	3	22.13	22.13	22.26	24.00	0
1.4	16-QAM	6	0	22.12	22.19	22.10	23.00	1
		1	0	22.14	22.27	22.18	23.00	1
		1	2	22.20	22.20	22.19	23.00	1
		1	5	22.17	22.27	22.11	23.00	1
		3	0	21.19	21.10	21.25	23.00	1
		3	2	21.19	21.09	21.14	23.00	1
1.4	64-QAM	3	3	21.15	21.24	21.28	23.00	1
		6	0	21.24	21.27	21.19	22.00	2
		1	0	21.19	21.13	21.28	22.00	2
		1	2	21.25	21.15	21.10	22.00	2
		1	5	21.23	21.28	21.13	22.00	2
		3	0	20.21	20.11	20.22	22.00	2
1.4	64-QAM	3	2	20.16	20.11	20.16	22.00	2
		3	3	20.17	20.22	20.14	22.00	2
		6	0	20.14	20.28	20.11	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1745	1770			
Channel			132072	132322	132572			
20	QPSK	1	0	22.68	23.12	22.59	24.00	0
		1	50	22.54	23.07	22.52	24.00	0
		1	99	22.46	23.05	22.43	24.00	0
		50	0	21.39	22.04	21.49	23.00	1
		50	25	21.48	21.95	21.46	23.00	1
		50	50	21.48	22.09	21.54	23.00	1
20	16-QAM	100	0	21.41	22.05	21.49	23.00	1
		1	0	21.43	21.99	21.36	23.00	1
		1	50	21.52	22.13	21.53	23.00	1
		1	99	21.55	22.08	21.37	23.00	1
		50	0	20.41	21.15	20.54	22.00	2
		50	25	20.44	21.07	20.38	22.00	2
20	64-QAM	50	50	20.52	21.03	20.52	22.00	2
		100	0	20.42	21.06	20.55	22.00	2
		1	0	20.44	21.12	20.41	22.00	2
		1	50	20.40	21.04	20.40	22.00	2
		1	99	20.45	20.99	20.40	22.00	2
		50	0	19.48	20.01	19.48	21.00	3
20	64-QAM	50	25	19.48	20.13	19.41	21.00	3
		50	50	19.40	20.12	19.48	21.00	3
		100	0	19.40	19.96	19.50	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1745	1772.5		
Channel				132047	132322	132597		
15	QPSK	1	0	22.45	23.09	22.54	24.00	0
		1	36	22.46	23.12	22.43	24.00	0
		1	74	22.55	23.11	22.46	24.00	0
		36	0	21.36	21.97	21.45	23.00	1
		36	18	21.38	21.96	21.54	23.00	1
		36	37	21.38	22.06	21.46	23.00	1
		75	0	21.42	22.09	21.36	23.00	1
15	16-QAM	1	0	21.44	21.95	21.41	23.00	1
		1	36	21.44	21.97	21.39	23.00	1
		1	74	21.47	22.06	21.50	23.00	1
		36	0	20.42	21.10	20.43	22.00	2
		36	18	20.39	20.94	20.49	22.00	2
		36	37	20.50	20.99	20.41	22.00	2
		75	0	20.36	21.10	20.53	22.00	2
15	64-QAM	1	0	20.51	20.95	20.49	22.00	2
		1	36	20.45	20.98	20.48	22.00	2
		1	74	20.36	21.12	20.38	22.00	2
		36	0	19.36	20.05	19.51	21.00	3
		36	18	19.35	20.12	19.52	21.00	3
		36	37	19.45	20.12	19.45	21.00	3
		75	0	19.49	20.03	19.49	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1715	1745	1775			
Channel			132022	132322	132622			
10	QPSK	1	0	22.51	23.11	22.44	24.00	0
		1	25	22.49	22.99	22.36	24.00	0
		1	49	22.36	22.96	22.55	24.00	0
		25	0	21.49	21.97	21.37	23.00	1
		25	12	21.45	22.06	21.47	23.00	1
		25	25	21.55	21.96	21.53	23.00	1
10	16-QAM	1	0	21.45	22.00	21.42	23.00	1
		1	25	21.46	22.13	21.36	23.00	1
		1	49	21.48	22.02	21.41	23.00	1
		25	0	20.52	21.07	20.41	22.00	2
		25	12	20.51	21.07	20.41	22.00	2
		25	25	20.40	21.00	20.53	22.00	2
10	64-QAM	1	0	20.37	20.93	20.48	22.00	2
		1	25	20.42	20.97	20.40	22.00	2
		1	49	20.38	21.01	20.48	22.00	2
		25	0	19.51	19.97	19.50	21.00	3
		25	12	19.50	20.05	19.46	21.00	3
		25	25	19.46	20.08	19.50	21.00	3
		50	0	19.39	19.96	19.37	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1712.5	1745	1777.5			
Channel			131997	132322	132647			
5	QPSK	1	0	22.47	23.06	22.43	24.00	0
		1	12	22.52	23.02	22.48	24.00	0
		1	24	22.47	23.12	22.55	24.00	0
		12	0	21.47	21.97	21.43	23.00	1
		12	6	21.40	22.04	21.50	23.00	1
		12	13	21.48	22.00	21.39	23.00	1
		25	0	21.40	21.99	21.41	23.00	1
5	16-QAM	1	0	21.37	22.12	21.37	23.00	1
		1	12	21.41	22.02	21.47	23.00	1
		1	24	21.43	22.06	21.43	23.00	1
		12	0	20.48	21.00	20.36	22.00	2
		12	6	20.44	21.00	20.37	22.00	2
		12	13	20.43	20.93	20.37	22.00	2
		25	0	20.39	21.10	20.40	22.00	2
5	64-QAM	1	0	20.37	21.12	20.44	22.00	2
		1	12	20.39	21.03	20.49	22.00	2
		1	24	20.36	21.00	20.48	22.00	2
		12	0	19.54	19.96	19.38	21.00	3
		12	6	19.47	19.98	19.51	21.00	3
		12	13	19.43	20.12	19.48	21.00	3
		25	0	19.40	20.13	19.49	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1745	1778.5		
Channel				131987	132322	132657		
3	QPSK	1	0	22.49	22.95	22.55	24.00	0
		1	7	22.55	23.07	22.38	24.00	0
		1	14	22.37	22.95	22.51	24.00	0
		8	0	21.52	21.97	21.38	23.00	1
		8	4	21.40	22.05	21.42	23.00	1
		8	7	21.52	22.06	21.36	23.00	1
		15	0	21.38	22.07	21.36	23.00	1
3	16-QAM	1	0	21.44	22.10	21.40	23.00	1
		1	7	21.51	22.00	21.45	23.00	1
		1	14	21.39	22.12	21.45	23.00	1
		8	0	20.41	20.98	20.52	22.00	2
		8	4	20.44	20.99	20.48	22.00	2
		8	7	20.48	21.12	20.42	22.00	2
		15	0	20.42	21.04	20.54	22.00	2
3	64-QAM	1	0	20.48	20.99	20.35	22.00	2
		1	7	20.45	21.06	20.49	22.00	2
		1	14	20.42	20.98	20.44	22.00	2
		8	0	19.47	19.98	19.43	21.00	3
		8	4	19.36	19.96	19.48	21.00	3
		8	7	19.47	20.10	19.48	21.00	3
		15	0	19.40	19.96	19.42	21.00	3

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1745	1779.3		
Channel				131979	132322	132665		
1.4	QPSK	1	0	22.38	23.05	22.35	24.00	0
		1	2	22.45	23.08	22.45	24.00	0
		1	5	22.50	23.05	22.37	24.00	0
		3	0	22.36	22.94	22.38	24.00	0
		3	2	22.46	23.11	22.41	24.00	0
		3	3	22.45	23.12	22.48	24.00	0
1.4	16-QAM	6	0	21.44	21.97	21.48	23.00	1
		1	0	21.47	22.01	21.43	23.00	1
		1	2	21.46	21.98	21.52	23.00	1
		1	5	21.54	22.04	21.46	23.00	1
		3	0	21.39	21.99	21.49	23.00	1
		3	2	21.49	22.00	21.37	23.00	1
1.4	64-QAM	3	3	21.44	22.06	21.44	23.00	1
		6	0	20.38	21.10	20.52	22.00	2
		1	0	20.45	20.99	20.50	22.00	2
		1	2	20.52	21.08	20.40	22.00	2
		1	5	20.53	21.10	20.38	22.00	2
		3	0	20.48	21.12	20.50	22.00	2
1.4	64-QAM	3	2	20.47	21.12	20.41	22.00	2
		3	3	20.50	21.10	20.37	22.00	2
		6	0	19.40	20.09	19.49	21.00	3

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1880	1900		
Channel				18700	18900	19100		
20	QPSK	1	0	12.46	12.66	12.64	13.50	0
		1	50	12.42	12.53	12.48	13.50	0
		1	99	12.46	12.48	12.46	13.50	0
		50	0	12.50	12.54	12.46	13.50	0
		50	25	12.53	12.47	12.41	13.50	0
		50	50	12.49	12.46	12.52	13.50	0
20	16-QAM	100	0	12.51	12.46	12.46	13.50	0
		1	0	12.36	12.37	12.52	13.50	0
		1	50	12.45	12.39	12.44	13.50	0
		1	99	12.45	12.51	12.40	13.50	0
		50	0	12.39	12.52	12.50	13.50	0
		50	25	12.53	12.37	12.37	13.50	0
20	64-QAM	50	50	12.46	12.52	12.39	13.50	0
		100	0	12.46	12.44	12.50	13.50	0
		1	0	12.48	12.36	12.51	13.50	0
		1	50	12.41	12.43	12.41	13.50	0
		1	99	12.44	12.53	12.35	13.50	0
		50	0	12.40	12.38	12.49	13.50	0
20	64-QAM	50	25	12.35	12.43	12.37	13.50	0
		50	50	12.49	12.52	12.38	13.50	0
		100	0	12.40	12.46	12.49	13.50	0
		100	0	12.40	12.46	12.49	13.50	0

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1880	1902.5		
Channel				18675	18900	19125		
15	QPSK	1	0	12.43	12.53	12.49	13.50	0
		1	36	12.48	12.38	12.43	13.50	0
		1	74	12.48	12.42	12.35	13.50	0
		36	0	12.41	12.43	12.51	13.50	0
		36	18	12.37	12.47	12.37	13.50	0
		36	37	12.51	12.53	12.49	13.50	0
		75	0	12.50	12.43	12.54	13.50	0
15	16-QAM	1	0	12.51	12.36	12.54	13.50	0
		1	36	12.40	12.45	12.41	13.50	0
		1	74	12.43	12.43	12.44	13.50	0
		36	0	12.42	12.36	12.42	13.50	0
		36	18	12.43	12.50	12.43	13.50	0
		36	37	12.54	12.44	12.48	13.50	0
		75	0	12.42	12.47	12.36	13.50	0
15	64-QAM	1	0	12.37	12.45	12.55	13.50	0
		1	36	12.38	12.52	12.39	13.50	0
		1	74	12.53	12.51	12.38	13.50	0
		36	0	12.48	12.51	12.39	13.50	0
		36	18	12.41	12.40	12.38	13.50	0
		36	37	12.48	12.50	12.41	13.50	0
		75	0	12.52	12.39	12.55	13.50	0

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1855	1880	1905			
Channel			18650	18900	19150			
10	QPSK	1	0	12.45	12.46	12.52	13.50	0
		1	25	12.41	12.48	12.38	13.50	0
		1	49	12.41	12.42	12.39	13.50	0
		25	0	12.50	12.50	12.46	13.50	0
		25	12	12.43	12.40	12.41	13.50	0
		25	25	12.35	12.52	12.37	13.50	0
10	16-QAM	1	0	12.49	12.52	12.43	13.50	0
		1	25	12.37	12.40	12.38	13.50	0
		1	49	12.45	12.36	12.53	13.50	0
		25	0	12.43	12.43	12.36	13.50	0
		25	12	12.52	12.52	12.39	13.50	0
		25	25	12.37	12.48	12.37	13.50	0
10	64-QAM	1	0	12.49	12.43	12.43	13.50	0
		1	25	12.39	12.47	12.42	13.50	0
		1	49	12.52	12.49	12.48	13.50	0
		25	0	12.42	12.38	12.38	13.50	0
		25	12	12.44	12.35	12.41	13.50	0
		25	25	12.53	12.45	12.54	13.50	0
		50	0	12.51	12.39	12.54	13.50	0

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1880	1907.5		
Channel				18625	18900	19175		
5	QPSK	1	0	12.48	12.39	12.48	13.50	0
		1	12	12.49	12.36	12.39	13.50	0
		1	24	12.35	12.50	12.55	13.50	0
		12	0	12.46	12.47	12.45	13.50	0
		12	6	12.42	12.36	12.51	13.50	0
		12	13	12.49	12.45	12.47	13.50	0
5	16-QAM	25	0	12.53	12.54	12.45	13.50	0
		1	0	12.50	12.44	12.37	13.50	0
		1	12	12.52	12.38	12.43	13.50	0
		1	24	12.55	12.52	12.38	13.50	0
		12	0	12.54	12.45	12.53	13.50	0
		12	6	12.48	12.40	12.52	13.50	0
5	64-QAM	12	13	12.49	12.39	12.40	13.50	0
		25	0	12.55	12.54	12.44	13.50	0
		1	0	12.42	12.53	12.52	13.50	0
		1	12	12.44	12.54	12.35	13.50	0
		1	24	12.48	12.42	12.37	13.50	0
		12	0	12.49	12.42	12.51	13.50	0
5	64-QAM	12	6	12.46	12.55	12.36	13.50	0
		12	13	12.51	12.46	12.54	13.50	0
		25	0	12.43	12.45	12.50	13.50	0
		25	0	12.43	12.45	12.50	13.50	0

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1880	1908.5		
Channel				18615	18900	19185		
3	QPSK	1	0	12.50	12.55	12.50	13.50	0
		1	7	12.39	12.37	12.53	13.50	0
		1	14	12.54	12.45	12.47	13.50	0
		8	0	12.40	12.43	12.53	13.50	0
		8	4	12.42	12.41	12.49	13.50	0
		8	7	12.47	12.52	12.48	13.50	0
3	16-QAM	15	0	12.50	12.51	12.46	13.50	0
		1	0	12.46	12.52	12.41	13.50	0
		1	7	12.46	12.50	12.42	13.50	0
		1	14	12.47	12.50	12.53	13.50	0
		8	0	12.45	12.35	12.45	13.50	0
		8	4	12.48	12.36	12.36	13.50	0
3	64-QAM	8	7	12.46	12.49	12.43	13.50	0
		15	0	12.43	12.40	12.52	13.50	0
		1	0	12.40	12.40	12.46	13.50	0
		1	7	12.47	12.50	12.40	13.50	0
		1	14	12.42	12.47	12.44	13.50	0
		8	0	12.38	12.51	12.43	13.50	0
3	64-QAM	8	4	12.37	12.52	12.41	13.50	0
		8	7	12.40	12.51	12.44	13.50	0
		15	0	12.50	12.41	12.37	13.50	0

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LTE Band 2								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1880	1909.3		
Channel				18607	18900	19193		
1.4	QPSK	1	0	12.53	12.43	12.51	13.50	0
		1	2	12.45	12.50	12.50	13.50	0
		1	5	12.35	12.43	12.51	13.50	0
		3	0	12.39	12.42	12.36	13.50	0
		3	2	12.48	12.45	12.36	13.50	0
		3	3	12.39	12.51	12.54	13.50	0
1.4	16-QAM	1	0	12.40	12.55	12.42	13.50	0
		1	2	12.36	12.54	12.47	13.50	0
		1	5	12.36	12.53	12.45	13.50	0
		3	0	12.47	12.51	12.49	13.50	0
		3	2	12.36	12.43	12.45	13.50	0
		3	3	12.51	12.36	12.52	13.50	0
1.4	64-QAM	1	0	12.49	12.49	12.42	13.50	0
		1	2	12.49	12.36	12.47	13.50	0
		1	5	12.42	12.39	12.40	13.50	0
		3	0	12.52	12.44	12.36	13.50	0
		3	2	12.39	12.36	12.35	13.50	0
		3	3	12.53	12.48	12.51	13.50	0
		6	0	12.50	12.49	12.55	13.50	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1720	1732.5	1745			
Channel			20050	20175	20300			
20	QPSK	1	0	13.92	13.89	13.79	14.00	0
		1	50	13.67	13.60	13.61	14.00	0
		1	99	13.64	13.61	13.76	14.00	0
		50	0	13.75	13.77	13.74	14.00	0
		50	25	13.78	13.68	13.63	14.00	0
		50	50	13.74	13.72	13.74	14.00	0
20	16-QAM	1	0	13.74	13.72	13.71	14.00	0
		1	50	13.75	13.71	13.78	14.00	0
		1	99	13.78	13.64	13.75	14.00	0
		50	0	13.76	13.63	13.60	14.00	0
		50	25	13.60	13.79	13.64	14.00	0
		50	50	13.75	13.67	13.70	14.00	0
20	64-QAM	1	0	13.66	13.61	13.77	14.00	0
		1	50	13.75	13.76	13.61	14.00	0
		1	99	13.65	13.73	13.64	14.00	0
		50	0	13.64	13.61	13.79	14.00	0
		50	25	13.79	13.64	13.68	14.00	0
		50	50	13.77	13.66	13.74	14.00	0
		100	0	13.79	13.80	13.69	14.00	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	13.78	13.71	13.60	14.00	0
		1	36	13.64	13.75	13.73	14.00	0
		1	74	13.67	13.64	13.78	14.00	0
		36	0	13.77	13.78	13.76	14.00	0
		36	18	13.73	13.75	13.76	14.00	0
		36	37	13.72	13.77	13.60	14.00	0
		75	0	13.80	13.63	13.71	14.00	0
15	16-QAM	1	0	13.76	13.79	13.61	14.00	0
		1	36	13.78	13.72	13.77	14.00	0
		1	74	13.65	13.71	13.68	14.00	0
		36	0	13.68	13.61	13.76	14.00	0
		36	18	13.69	13.69	13.77	14.00	0
		36	37	13.78	13.66	13.75	14.00	0
		75	0	13.74	13.64	13.65	14.00	0
15	64-QAM	1	0	13.72	13.66	13.62	14.00	0
		1	36	13.73	13.68	13.80	14.00	0
		1	74	13.75	13.64	13.79	14.00	0
		36	0	13.66	13.60	13.61	14.00	0
		36	18	13.76	13.68	13.76	14.00	0
		36	37	13.63	13.62	13.65	14.00	0
		75	0	13.77	13.68	13.64	14.00	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	13.73	13.80	13.73	14.00	0
		1	25	13.61	13.62	13.74	14.00	0
		1	49	13.72	13.61	13.66	14.00	0
		25	0	13.78	13.78	13.77	14.00	0
		25	12	13.78	13.68	13.66	14.00	0
		25	25	13.68	13.67	13.74	14.00	0
10	16-QAM	1	0	13.63	13.77	13.61	14.00	0
		1	25	13.63	13.76	13.74	14.00	0
		1	49	13.75	13.72	13.77	14.00	0
		25	0	13.61	13.75	13.60	14.00	0
		25	12	13.61	13.74	13.77	14.00	0
		25	25	13.70	13.72	13.72	14.00	0
10	64-QAM	1	0	13.62	13.60	13.65	14.00	0
		1	25	13.73	13.63	13.79	14.00	0
		1	49	13.62	13.80	13.73	14.00	0
		25	0	13.73	13.74	13.69	14.00	0
		25	12	13.70	13.66	13.74	14.00	0
		25	25	13.62	13.75	13.75	14.00	0
		50	0	13.74	13.65	13.69	14.00	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	13.69	13.67	13.74	14.00	0
		1	12	13.60	13.73	13.79	14.00	0
		1	24	13.63	13.64	13.77	14.00	0
		12	0	13.68	13.77	13.63	14.00	0
		12	6	13.67	13.77	13.71	14.00	0
		12	13	13.80	13.67	13.63	14.00	0
5	16-QAM	25	0	13.62	13.67	13.61	14.00	0
		1	0	13.79	13.66	13.76	14.00	0
		1	12	13.68	13.66	13.68	14.00	0
		1	24	13.75	13.78	13.78	14.00	0
		12	0	13.61	13.79	13.65	14.00	0
		12	6	13.72	13.76	13.79	14.00	0
5	64-QAM	12	13	13.61	13.77	13.70	14.00	0
		25	0	13.78	13.65	13.75	14.00	0
		1	0	13.67	13.62	13.70	14.00	0
		1	12	13.76	13.65	13.77	14.00	0
		1	24	13.62	13.67	13.78	14.00	0
		12	0	13.69	13.70	13.66	14.00	0
5	64-QAM	12	6	13.71	13.70	13.72	14.00	0
		12	13	13.78	13.68	13.68	14.00	0
		25	0	13.66	13.76	13.63	14.00	0
		25	0	13.66	13.76	13.63	14.00	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	13.68	13.65	13.76	14.00	0
		1	7	13.63	13.65	13.69	14.00	0
		1	14	13.70	13.61	13.66	14.00	0
		8	0	13.74	13.76	13.61	14.00	0
		8	4	13.71	13.79	13.68	14.00	0
		8	7	13.72	13.63	13.64	14.00	0
3	16-QAM	15	0	13.67	13.70	13.60	14.00	0
		1	0	13.63	13.74	13.70	14.00	0
		1	7	13.71	13.76	13.79	14.00	0
		1	14	13.74	13.79	13.67	14.00	0
		8	0	13.79	13.63	13.73	14.00	0
		8	4	13.76	13.76	13.76	14.00	0
3	64-QAM	8	7	13.75	13.62	13.61	14.00	0
		15	0	13.66	13.78	13.62	14.00	0
		1	0	13.60	13.67	13.63	14.00	0
		1	7	13.70	13.68	13.78	14.00	0
		1	14	13.67	13.76	13.76	14.00	0
		8	0	13.73	13.67	13.64	14.00	0
3	64-QAM	8	4	13.75	13.68	13.62	14.00	0
		8	7	13.72	13.66	13.76	14.00	0
		15	0	13.69	13.78	13.66	14.00	0

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	13.64	13.77	13.77	14.00	0
		1	2	13.68	13.80	13.77	14.00	0
		1	5	13.71	13.74	13.60	14.00	0
		3	0	13.75	13.65	13.70	14.00	0
		3	2	13.60	13.69	13.74	14.00	0
		3	3	13.76	13.71	13.63	14.00	0
1.4	16-QAM	1	0	13.72	13.60	13.65	14.00	0
		1	2	13.76	13.61	13.69	14.00	0
		1	5	13.64	13.72	13.61	14.00	0
		3	0	13.63	13.65	13.71	14.00	0
		3	2	13.67	13.77	13.77	14.00	0
		3	3	13.62	13.68	13.76	14.00	0
1.4	64-QAM	1	0	13.67	13.61	13.65	14.00	0
		1	2	13.78	13.71	13.64	14.00	0
		1	5	13.61	13.73	13.68	14.00	0
		3	0	13.62	13.78	13.77	14.00	0
		3	2	13.63	13.66	13.70	14.00	0
		3	3	13.66	13.60	13.74	14.00	0
		6	0	13.61	13.77	13.76	14.00	0

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				829	836.5	844		
Channel				20450	20525	20600		
10	QPSK	1	0	19.44	19.39	19.38	20.00	0
		1	25	19.29	19.19	19.36	20.00	0
		1	49	19.26	19.31	19.30	20.00	0
		25	0	19.27	19.25	19.23	20.00	0
		25	12	19.34	19.26	19.35	20.00	0
		25	25	19.31	19.27	19.29	20.00	0
10	16-QAM	1	0	19.18	19.34	19.30	20.00	0
		1	25	19.20	19.18	19.20	20.00	0
		1	49	19.22	19.35	19.19	20.00	0
		25	0	19.28	19.33	19.31	20.00	0
		25	12	19.24	19.24	19.33	20.00	0
		25	25	19.32	19.33	19.35	20.00	0
10	64-QAM	1	0	19.20	19.28	19.34	20.00	0
		1	25	19.27	19.17	19.27	20.00	0
		1	49	19.28	19.19	19.34	20.00	0
		25	0	19.17	19.34	19.21	20.00	0
		25	12	19.20	19.20	19.18	20.00	0
		25	25	19.16	19.20	19.32	20.00	0
		50	0	19.25	19.28	19.18	20.00	0

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	19.21	19.26	19.18	20.00	0
		1	12	19.17	19.32	19.24	20.00	0
		1	24	19.31	19.18	19.30	20.00	0
		12	0	19.24	19.35	19.29	20.00	0
		12	6	19.27	19.33	19.22	20.00	0
		12	13	19.34	19.27	19.33	20.00	0
5	16-QAM	25	0	19.34	19.30	19.17	20.00	0
		1	0	19.30	19.26	19.35	20.00	0
		1	12	19.32	19.31	19.28	20.00	0
		1	24	19.18	19.27	19.19	20.00	0
		12	0	19.24	19.21	19.23	20.00	0
		12	6	19.35	19.27	19.22	20.00	0
5	64-QAM	12	13	19.25	19.29	19.26	20.00	0
		25	0	19.34	19.25	19.30	20.00	0
		1	0	19.30	19.33	19.35	20.00	0
		1	12	19.26	19.33	19.26	20.00	0
		1	24	19.16	19.27	19.33	20.00	0
		12	0	19.17	19.16	19.18	20.00	0
5	64-QAM	12	6	19.36	19.24	19.26	20.00	0
		12	13	19.17	19.27	19.16	20.00	0
		25	0	19.35	19.19	19.31	20.00	0
		25	0	19.35	19.19	19.31	20.00	0

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				825.5	836.5	847.5		
Channel				20415	20525	20635		
3	QPSK	1	0	19.25	19.27	19.28	20.00	0
		1	7	19.30	19.34	19.33	20.00	0
		1	14	19.30	19.21	19.33	20.00	0
		8	0	19.19	19.36	19.21	20.00	0
		8	4	19.17	19.19	19.34	20.00	0
		8	7	19.27	19.27	19.28	20.00	0
3	16-QAM	15	0	19.36	19.20	19.34	20.00	0
		1	0	19.19	19.23	19.20	20.00	0
		1	7	19.17	19.29	19.23	20.00	0
		1	14	19.22	19.19	19.28	20.00	0
		8	0	19.32	19.26	19.36	20.00	0
		8	4	19.34	19.34	19.24	20.00	0
3	64-QAM	8	7	19.27	19.31	19.18	20.00	0
		15	0	19.17	19.21	19.32	20.00	0
		1	0	19.30	19.29	19.31	20.00	0
		1	7	19.35	19.35	19.25	20.00	0
		1	14	19.26	19.33	19.18	20.00	0
		8	0	19.19	19.34	19.32	20.00	0
3	64-QAM	8	4	19.28	19.34	19.16	20.00	0
		8	7	19.30	19.26	19.35	20.00	0
		15	0	19.29	19.18	19.17	20.00	0
		15	0	19.29	19.18	19.17	20.00	0

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LTE Band 5								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	19.31	19.33	19.17	20.00	0
		1	2	19.19	19.24	19.23	20.00	0
		1	5	19.28	19.27	19.31	20.00	0
		3	0	19.29	19.18	19.24	20.00	0
		3	2	19.24	19.30	19.26	20.00	0
		3	3	19.28	19.19	19.19	20.00	0
1.4	16-QAM	1	0	19.31	19.17	19.24	20.00	0
		1	2	19.30	19.26	19.25	20.00	0
		1	5	19.26	19.19	19.29	20.00	0
		3	0	19.36	19.27	19.19	20.00	0
		3	2	19.21	19.20	19.20	20.00	0
		3	3	19.32	19.36	19.28	20.00	0
1.4	64-QAM	1	0	19.32	19.26	19.20	20.00	0
		1	2	19.32	19.24	19.20	20.00	0
		1	5	19.22	19.28	19.26	20.00	0
		3	0	19.17	19.22	19.24	20.00	0
		3	2	19.34	19.22	19.28	20.00	0
		3	3	19.20	19.25	19.26	20.00	0
		6	0	19.26	19.22	19.32	20.00	0

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2510	2535	2560		
Channel				20850	21100	21350		
20	QPSK	1	0	13.75	13.66	13.63	14.50	0
		1	50	13.50	13.55	13.43	14.50	0
		1	99	13.54	13.48	13.48	14.50	0
		50	0	13.40	13.54	13.45	14.50	0
		50	25	13.55	13.59	13.50	14.50	0
		50	50	13.57	13.59	13.42	14.50	0
20	16-QAM	1	0	13.57	13.56	13.54	14.50	0
		1	50	13.51	13.43	13.59	14.50	0
		1	99	13.51	13.42	13.40	14.50	0
		50	0	13.42	13.40	13.51	14.50	0
		50	25	13.53	13.54	13.59	14.50	0
		50	50	13.50	13.54	13.52	14.50	0
20	64-QAM	1	0	13.43	13.50	13.40	14.50	0
		1	50	13.46	13.42	13.40	14.50	0
		1	99	13.45	13.59	13.56	14.50	0
		50	0	13.60	13.51	13.46	14.50	0
		50	25	13.58	13.48	13.47	14.50	0
		50	50	13.58	13.43	13.51	14.50	0
		100	0	13.49	13.51	13.52	14.50	0

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	13.55	13.50	13.44	14.50	0
		1	36	13.48	13.58	13.47	14.50	0
		1	74	13.52	13.58	13.45	14.50	0
		36	0	13.59	13.53	13.45	14.50	0
		36	18	13.50	13.41	13.59	14.50	0
		36	37	13.46	13.42	13.56	14.50	0
15	16-QAM	75	0	13.56	13.49	13.45	14.50	0
		1	0	13.56	13.46	13.41	14.50	0
		1	36	13.46	13.48	13.58	14.50	0
		1	74	13.58	13.54	13.49	14.50	0
		36	0	13.53	13.47	13.53	14.50	0
		36	18	13.55	13.43	13.43	14.50	0
15	64-QAM	36	37	13.50	13.52	13.42	14.50	0
		75	0	13.49	13.55	13.49	14.50	0
		1	0	13.54	13.43	13.46	14.50	0
		1	36	13.44	13.50	13.60	14.50	0
		1	74	13.58	13.56	13.42	14.50	0
		36	0	13.54	13.54	13.44	14.50	0
15	64-QAM	36	18	13.54	13.46	13.46	14.50	0
		36	37	13.51	13.51	13.43	14.50	0
		75	0	13.46	13.49	13.51	14.50	0
		75	0	13.46	13.49	13.51	14.50	0

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LTE Band 7								
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Frequency (MHz)			2505	2535	2565			
Channel			20800	21100	21400			
10	QPSK	1	0	13.58	13.57	13.41	14.50	0
		1	25	13.42	13.40	13.45	14.50	0
		1	49	13.45	13.42	13.45	14.50	0
		25	0	13.47	13.43	13.51	14.50	0
		25	12	13.58	13.52	13.44	14.50	0
		25	25	13.48	13.51	13.55	14.50	0
10	16-QAM	1	0	13.51	13.57	13.53	14.50	0
		1	25	13.54	13.42	13.53	14.50	0
		1	49	13.41	13.50	13.56	14.50	0
		25	0	13.48	13.56	13.59	14.50	0
		25	12	13.44	13.48	13.49	14.50	0
		25	25	13.42	13.55	13.43	14.50	0
10	64-QAM	1	0	13.40	13.41	13.41	14.50	0
		1	25	13.47	13.41	13.56	14.50	0
		1	49	13.53	13.43	13.55	14.50	0
		25	0	13.46	13.58	13.45	14.50	0
		25	12	13.55	13.40	13.41	14.50	0
		25	25	13.51	13.44	13.52	14.50	0
		50	0	13.53	13.46	13.48	14.50	0

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	13.56	13.56	13.41	14.50	0
		1	12	13.50	13.56	13.47	14.50	0
		1	24	13.45	13.55	13.58	14.50	0
		12	0	13.48	13.56	13.40	14.50	0
		12	6	13.44	13.52	13.50	14.50	0
		12	13	13.48	13.58	13.55	14.50	0
5	16-QAM	25	0	13.52	13.42	13.59	14.50	0
		1	0	13.48	13.58	13.41	14.50	0
		1	12	13.51	13.45	13.47	14.50	0
		1	24	13.46	13.57	13.56	14.50	0
		12	0	13.45	13.44	13.53	14.50	0
		12	6	13.43	13.42	13.56	14.50	0
5	64-QAM	12	13	13.49	13.42	13.52	14.50	0
		25	0	13.48	13.56	13.46	14.50	0
		1	0	13.46	13.55	13.50	14.50	0
		1	12	13.56	13.45	13.49	14.50	0
		1	24	13.56	13.47	13.58	14.50	0
		12	0	13.42	13.41	13.40	14.50	0
5	64-QAM	12	6	13.56	13.52	13.59	14.50	0
		12	13	13.42	13.51	13.44	14.50	0
		25	0	13.57	13.52	13.54	14.50	0
		25	0	13.57	13.52	13.54	14.50	0

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			704	707.5	711			
Channel			23060	23095	23130			
10	QPSK	1	0	21.44	21.33	21.34	21.50	0
		1	25	21.18	21.12	21.13	21.50	0
		1	49	21.13	21.11	21.29	21.50	0
		25	0	21.20	21.21	21.16	21.50	0
		25	12	21.22	21.12	21.30	21.50	0
		25	25	21.13	21.23	21.19	21.50	0
10	16-QAM	50	0	21.27	21.27	21.25	21.50	0
		1	0	21.20	21.16	21.15	21.50	0
		1	25	21.29	21.19	21.15	21.50	0
		1	49	21.24	21.28	21.17	21.50	0
		25	0	21.13	21.12	21.22	21.50	0
		25	12	21.19	21.21	21.13	21.50	0
10	64-QAM	25	25	21.12	21.15	21.29	21.50	0
		50	0	21.26	21.20	21.28	21.50	0
		1	0	21.12	21.28	21.24	21.50	0
		1	25	21.10	21.26	21.24	21.50	0
		1	49	21.26	21.27	21.19	21.50	0
		25	0	21.21	21.26	21.12	21.50	0
10	64-QAM	25	12	21.12	21.14	21.17	21.50	0
		25	25	21.11	21.24	21.23	21.50	0
		50	0	21.12	21.18	21.16	21.50	0

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			701.5	707.5	713.5			
Channel			23035	23095	23155			
5	QPSK	1	0	21.14	21.19	21.19	21.50	0
		1	12	21.17	21.15	21.15	21.50	0
		1	24	21.22	21.20	21.11	21.50	0
		12	0	21.28	21.20	21.16	21.50	0
		12	6	21.19	21.26	21.20	21.50	0
		12	13	21.19	21.27	21.11	21.50	0
		25	0	21.22	21.14	21.23	21.50	0
5	16-QAM	1	0	21.27	21.17	21.14	21.50	0
		1	12	21.17	21.15	21.25	21.50	0
		1	24	21.10	21.13	21.28	21.50	0
		12	0	21.12	21.27	21.18	21.50	0
		12	6	21.14	21.18	21.27	21.50	0
		12	13	21.14	21.13	21.13	21.50	0
		25	0	21.29	21.24	21.27	21.50	0
5	64-QAM	1	0	21.25	21.20	21.25	21.50	0
		1	12	21.27	21.21	21.27	21.50	0
		1	24	21.29	21.22	21.28	21.50	0
		12	0	21.13	21.27	21.23	21.50	0
		12	6	21.24	21.13	21.12	21.50	0
		12	13	21.27	21.14	21.19	21.50	0
		25	0	21.18	21.17	21.11	21.50	0

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				700.5	707.5	714.5		
Channel				23025	23095	23165		
3	QPSK	1	0	21.25	21.18	21.12	21.50	0
		1	7	21.27	21.16	21.17	21.50	0
		1	14	21.19	21.12	21.13	21.50	0
		8	0	21.29	21.18	21.19	21.50	0
		8	4	21.25	21.27	21.15	21.50	0
		8	7	21.19	21.22	21.19	21.50	0
3	16-QAM	15	0	21.21	21.21	21.12	21.50	0
		1	0	21.11	21.16	21.15	21.50	0
		1	7	21.12	21.24	21.25	21.50	0
		1	14	21.13	21.16	21.19	21.50	0
		8	0	21.15	21.25	21.12	21.50	0
		8	4	21.15	21.22	21.25	21.50	0
3	64-QAM	8	7	21.21	21.22	21.23	21.50	0
		15	0	21.10	21.16	21.26	21.50	0
		1	0	21.15	21.21	21.25	21.50	0
		1	7	21.30	21.20	21.22	21.50	0
		1	14	21.21	21.20	21.24	21.50	0
		8	0	21.10	21.11	21.11	21.50	0
3	64-QAM	8	4	21.27	21.14	21.19	21.50	0
		8	7	21.16	21.24	21.14	21.50	0
		15	0	21.23	21.26	21.29	21.50	0
		15	0	21.23	21.26	21.29	21.50	0

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				699.7	707.5	715.3		
Channel				23017	23095	23173		
1.4	QPSK	1	0	21.17	21.16	21.20	21.50	0
		1	2	21.17	21.13	21.27	21.50	0
		1	5	21.29	21.12	21.12	21.50	0
		3	0	21.26	21.11	21.12	21.50	0
		3	2	21.21	21.25	21.13	21.50	0
		3	3	21.12	21.12	21.17	21.50	0
1.4	16-QAM	6	0	21.11	21.11	21.19	21.50	0
		1	0	21.28	21.27	21.26	21.50	0
		1	2	21.15	21.13	21.20	21.50	0
		1	5	21.13	21.25	21.19	21.50	0
		3	0	21.10	21.19	21.19	21.50	0
		3	2	21.12	21.17	21.14	21.50	0
1.4	64-QAM	3	3	21.27	21.26	21.29	21.50	0
		6	0	21.30	21.30	21.14	21.50	0
		1	0	21.29	21.18	21.16	21.50	0
		1	2	21.24	21.27	21.15	21.50	0
		1	5	21.13	21.22	21.20	21.50	0
		3	0	21.19	21.17	21.26	21.50	0
1.4	64-QAM	3	2	21.15	21.22	21.22	21.50	0
		3	3	21.19	21.28	21.30	21.50	0
		6	0	21.19	21.23	21.14	21.50	0

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				-	782	-		
Channel				-	23230	-		
10	QPSK	1	0		21.50		21.50	0
		1	25		21.44		21.50	0
		1	49		21.39		21.50	0
		25	0		21.43		21.50	0
		25	12		21.33		21.50	0
		25	25		21.31		21.50	0
		50	0		21.27		21.50	0
10	16-QAM	1	0		21.40		21.50	0
		1	25		21.32		21.50	0
		1	49		21.41		21.50	0
		25	0		21.26		21.50	0
		25	12		21.30		21.50	0
		25	25		21.32		21.50	0
		50	0		21.35		21.50	0
10	64-QAM	1	0		21.31		21.50	0
		1	25		21.26		21.50	0
		1	49		21.32		21.50	0
		25	0		21.44		21.50	0
		25	12		21.45		21.50	0
		25	25		21.33		21.50	0
		50	0		21.44		21.50	0

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LTE Band 13								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				779.5	782	784.5		
Channel				23205	23230	23255		
5	QPSK	1	0	21.26	21.40	21.20	21.50	0
		1	12	21.30	21.24	21.37	21.50	0
		1	24	21.34	21.35	21.39	21.50	0
		12	0	21.33	21.30	21.36	21.50	0
		12	6	21.23	21.22	21.22	21.50	0
		12	13	21.30	21.20	21.33	21.50	0
5	16-QAM	25	0	21.29	21.30	21.25	21.50	0
		1	0	21.32	21.40	21.25	21.50	0
		1	12	21.31	21.26	21.21	21.50	0
		1	24	21.39	21.28	21.30	21.50	0
		12	0	21.36	21.36	21.27	21.50	0
		12	6	21.29	21.26	21.24	21.50	0
5	64-QAM	12	13	21.36	21.27	21.32	21.50	0
		25	0	21.22	21.23	21.24	21.50	0
		1	0	21.39	21.39	21.34	21.50	0
		1	12	21.33	21.21	21.22	21.50	0
		1	24	21.33	21.36	21.20	21.50	0
		12	0	21.31	21.22	21.23	21.50	0
5	64-QAM	12	6	21.33	21.29	21.24	21.50	0
		12	13	21.31	21.38	21.36	21.50	0
		25	0	21.22	21.33	21.24	21.50	0
		25	0	21.22	21.33	21.24	21.50	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1860	1882.5	1905		
Channel				26140	26365	26590		
20	QPSK	1	0	13.11	13.15	13.12	14.00	0
		1	50	12.92	12.95	13.00	14.00	0
		1	99	12.99	13.06	12.93	14.00	0
		50	0	13.06	12.92	12.93	14.00	0
		50	25	12.98	13.05	12.94	14.00	0
		50	50	13.06	12.93	12.94	14.00	0
20	16-QAM	100	0	12.98	13.02	13.06	14.00	0
		1	0	13.08	13.02	13.04	14.00	0
		1	50	13.06	13.07	13.03	14.00	0
		1	99	12.90	13.01	13.06	14.00	0
		50	0	12.96	12.91	12.91	14.00	0
		50	25	12.95	12.96	12.96	14.00	0
20	64-QAM	50	50	12.92	12.90	13.04	14.00	0
		100	0	13.07	13.08	13.00	14.00	0
		1	0	12.97	12.97	13.05	14.00	0
		1	50	13.02	12.98	12.91	14.00	0
		1	99	13.05	12.91	13.04	14.00	0
		50	0	12.92	12.94	12.99	14.00	0
20	64-QAM	50	25	13.06	12.95	13.08	14.00	0
		50	50	13.05	12.96	13.08	14.00	0
		100	0	12.96	12.90	12.95	14.00	0
		100	0	12.96	12.90	12.95	14.00	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1857.5	1882.5	1907.5		
Channel				26115	26365	26615		
15	QPSK	1	0	12.92	13.05	13.01	14.00	0
		1	36	12.98	12.97	13.01	14.00	0
		1	74	13.00	13.00	13.06	14.00	0
		36	0	12.94	12.91	12.97	14.00	0
		36	18	12.95	13.02	12.99	14.00	0
		36	37	12.96	12.92	12.95	14.00	0
		75	0	12.90	13.08	12.93	14.00	0
15	16-QAM	1	0	13.01	12.95	13.03	14.00	0
		1	36	12.98	12.91	12.97	14.00	0
		1	74	12.97	13.05	12.94	14.00	0
		36	0	12.97	13.07	12.98	14.00	0
		36	18	13.00	13.05	12.96	14.00	0
		36	37	12.96	13.08	13.07	14.00	0
		75	0	13.07	12.98	13.01	14.00	0
15	64-QAM	1	0	12.99	12.95	13.02	14.00	0
		1	36	12.97	12.97	12.96	14.00	0
		1	74	13.09	13.08	12.95	14.00	0
		36	0	13.04	12.97	12.96	14.00	0
		36	18	13.09	13.10	12.90	14.00	0
		36	37	12.90	13.02	13.05	14.00	0
		75	0	13.03	13.06	13.09	14.00	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1855	1882.5	1910		
Channel				26090	26365	26640		
10	QPSK	1	0	12.95	12.90	12.95	14.00	0
		1	25	13.07	12.92	12.90	14.00	0
		1	49	13.03	12.90	13.04	14.00	0
		25	0	12.96	13.02	13.04	14.00	0
		25	12	12.94	13.03	13.08	14.00	0
		25	25	13.05	13.05	12.99	14.00	0
10	16-QAM	1	0	13.02	13.09	12.99	14.00	0
		1	25	12.90	12.97	12.96	14.00	0
		1	49	12.95	13.10	12.90	14.00	0
		25	0	13.05	12.94	12.99	14.00	0
		25	12	13.07	12.99	12.97	14.00	0
		25	25	13.05	13.10	12.94	14.00	0
10	64-QAM	1	0	13.10	13.00	13.09	14.00	0
		1	25	13.08	12.97	12.91	14.00	0
		1	49	12.97	13.08	12.96	14.00	0
		25	0	13.01	13.01	12.95	14.00	0
		25	12	13.04	13.01	13.01	14.00	0
		25	25	13.09	12.91	13.09	14.00	0
		50	0	12.96	12.92	12.97	14.00	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1852.5	1882.5	1912.5			
Channel			26065	26365	26665			
5	QPSK	1	0	13.06	13.04	12.94	14.00	0
		1	12	12.96	13.06	13.06	14.00	0
		1	24	12.96	13.06	12.92	14.00	0
		12	0	13.03	13.02	12.93	14.00	0
		12	6	13.03	12.93	13.06	14.00	0
		12	13	13.06	13.10	12.99	14.00	0
5	16-QAM	25	0	12.92	13.09	12.95	14.00	0
		1	0	13.02	13.01	13.01	14.00	0
		1	12	13.03	12.95	13.03	14.00	0
		1	24	13.03	12.91	12.91	14.00	0
		12	0	12.92	13.05	12.91	14.00	0
		12	6	13.10	13.00	12.99	14.00	0
5	64-QAM	12	13	12.99	12.98	13.03	14.00	0
		25	0	13.05	13.06	12.97	14.00	0
		1	0	13.04	12.93	12.95	14.00	0
		1	12	13.09	12.96	13.05	14.00	0
		1	24	12.96	13.06	12.90	14.00	0
		12	0	12.97	13.04	13.06	14.00	0
5	64-QAM	12	6	13.08	13.03	13.09	14.00	0
		12	13	13.05	12.94	13.05	14.00	0
		25	0	13.00	12.93	12.94	14.00	0
		25	0	13.00	12.93	12.94	14.00	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1851.5	1882.5	1913.5		
Channel				26055	26365	26675		
3	QPSK	1	0	13.09	12.97	13.01	14.00	0
		1	7	13.07	12.94	12.96	14.00	0
		1	14	12.91	12.92	12.96	14.00	0
		8	0	13.10	12.93	12.97	14.00	0
		8	4	13.05	13.07	13.01	14.00	0
		8	7	12.97	12.97	13.09	14.00	0
3	16-QAM	15	0	12.92	12.93	13.04	14.00	0
		1	0	12.95	13.06	12.95	14.00	0
		1	7	13.09	13.03	12.99	14.00	0
		1	14	12.92	13.08	13.07	14.00	0
		8	0	13.04	12.91	12.92	14.00	0
		8	4	13.08	12.94	13.10	14.00	0
3	64-QAM	8	7	12.90	12.97	12.91	14.00	0
		15	0	12.96	13.06	13.03	14.00	0
		1	0	13.07	12.98	13.07	14.00	0
		1	7	12.94	13.04	12.93	14.00	0
		1	14	12.91	13.06	13.06	14.00	0
		8	0	13.06	12.95	12.98	14.00	0
3	64-QAM	8	4	13.07	13.03	13.10	14.00	0
		8	7	13.04	13.08	12.93	14.00	0
		15	0	13.06	13.09	12.99	14.00	0

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1850.7	1882.5	1914.3		
Channel				26047	26365	26683		
1.4	QPSK	1	0	12.96	12.95	13.08	14.00	0
		1	2	13.01	12.94	12.99	14.00	0
		1	5	12.92	12.95	13.09	14.00	0
		3	0	13.03	12.91	13.05	14.00	0
		3	2	12.98	12.97	13.01	14.00	0
		3	3	12.93	13.09	13.03	14.00	0
1.4	16-QAM	1	0	12.95	12.98	13.06	14.00	0
		1	2	13.08	12.98	13.04	14.00	0
		1	5	12.99	12.97	13.06	14.00	0
		3	0	13.05	13.09	13.00	14.00	0
		3	2	13.06	13.06	12.97	14.00	0
		3	3	12.99	12.93	13.06	14.00	0
1.4	64-QAM	1	0	13.07	12.95	13.07	14.00	0
		1	2	12.92	13.01	13.08	14.00	0
		1	5	13.04	12.92	12.91	14.00	0
		3	0	12.94	13.01	13.08	14.00	0
		3	2	13.10	12.99	13.00	14.00	0
		3	3	13.09	13.08	12.99	14.00	0
		6	0	13.09	13.09	12.94	14.00	0

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				821.5	831.5	841.5		
Channel				26765	26865	26965		
15	QPSK	1	0	18.16	18.21	18.15	19.00	0
		1	36	18.08	18.00	17.92	19.00	0
		1	74	18.00	17.95	17.96	19.00	0
		36	0	18.03	18.05	17.99	19.00	0
		36	18	18.04	18.00	17.99	19.00	0
		36	37	17.93	18.00	18.02	19.00	0
		75	0	18.05	18.00	18.06	19.00	0
15	16-QAM	1	0	17.93	17.91	17.97	19.00	0
		1	36	17.96	17.95	17.93	19.00	0
		1	74	18.09	18.05	18.05	19.00	0
		36	0	17.98	17.97	17.91	19.00	0
		36	18	17.91	17.92	17.96	19.00	0
		36	37	17.94	18.02	18.05	19.00	0
		75	0	17.96	18.04	17.95	19.00	0
15	64-QAM	1	0	17.98	18.10	18.00	19.00	0
		1	36	17.92	17.99	18.08	19.00	0
		1	74	18.04	17.99	18.08	19.00	0
		36	0	18.07	18.08	17.91	19.00	0
		36	18	17.99	18.04	17.91	19.00	0
		36	37	17.94	18.07	17.91	19.00	0
		75	0	17.90	18.01	18.07	19.00	0

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				819	831.5	844		
Channel				26740	26865	26990		
10	QPSK	1	0	17.95	17.93	17.91	19.00	0
		1	25	17.91	18.05	18.00	19.00	0
		1	49	18.08	17.92	18.03	19.00	0
		25	0	17.90	17.97	17.92	19.00	0
		25	12	18.04	17.90	18.00	19.00	0
		25	25	17.92	17.98	17.90	19.00	0
10	16-QAM	1	0	18.03	17.92	18.06	19.00	0
		1	25	17.94	18.00	17.97	19.00	0
		1	49	18.05	18.06	17.97	19.00	0
		25	0	17.91	17.94	18.00	19.00	0
		25	12	18.04	18.05	18.06	19.00	0
		25	25	18.00	18.04	18.00	19.00	0
10	64-QAM	1	0	18.08	17.94	18.01	19.00	0
		1	25	18.03	18.01	18.04	19.00	0
		1	49	17.97	18.09	18.08	19.00	0
		25	0	17.91	18.01	17.97	19.00	0
		25	12	17.92	18.06	17.93	19.00	0
		25	25	18.03	17.99	18.02	19.00	0
		50	0	17.99	18.03	18.05	19.00	0

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				816.5	831.5	846.5		
Channel				26715	26865	27015		
5	QPSK	1	0	17.96	18.05	18.01	19.00	0
		1	12	17.94	18.00	17.99	19.00	0
		1	24	17.98	18.00	18.02	19.00	0
		12	0	18.02	17.96	18.04	19.00	0
		12	6	18.06	18.09	18.07	19.00	0
		12	13	17.92	17.90	18.07	19.00	0
		25	0	18.03	17.95	18.05	19.00	0
5	16-QAM	1	0	17.99	18.00	18.02	19.00	0
		1	12	18.00	18.07	18.07	19.00	0
		1	24	18.05	17.90	18.05	19.00	0
		12	0	18.01	18.07	18.02	19.00	0
		12	6	17.93	18.00	17.97	19.00	0
		12	13	18.03	18.10	17.94	19.00	0
		25	0	17.90	18.05	18.09	19.00	0
5	64-QAM	1	0	17.91	17.90	18.03	19.00	0
		1	12	18.10	18.08	18.07	19.00	0
		1	24	18.07	17.96	18.03	19.00	0
		12	0	18.03	18.08	17.94	19.00	0
		12	6	18.03	17.95	17.98	19.00	0
		12	13	17.92	17.96	18.03	19.00	0
		25	0	18.09	17.94	17.98	19.00	0

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				815.5	831.5	847.5		
Channel				26705	26865	27025		
3	QPSK	1	0	17.91	18.04	18.00	19.00	0
		1	7	17.90	18.02	18.07	19.00	0
		1	14	18.08	18.04	18.01	19.00	0
		8	0	17.93	18.10	17.95	19.00	0
		8	4	18.03	17.96	17.97	19.00	0
		8	7	17.91	17.92	17.99	19.00	0
3	16-QAM	15	0	17.99	17.97	17.95	19.00	0
		1	0	17.98	18.05	18.03	19.00	0
		1	7	18.06	18.07	17.91	19.00	0
		1	14	17.94	18.08	18.04	19.00	0
		8	0	18.03	17.97	17.90	19.00	0
		8	4	18.01	17.91	18.03	19.00	0
3	64-QAM	8	7	18.02	18.05	17.95	19.00	0
		15	0	18.02	18.09	17.92	19.00	0
		1	0	17.97	18.01	17.96	19.00	0
		1	7	18.02	17.95	18.03	19.00	0
		1	14	17.96	18.02	17.92	19.00	0
		8	0	18.01	18.09	18.06	19.00	0
3	64-QAM	8	4	18.06	18.04	17.91	19.00	0
		8	7	17.99	17.93	17.93	19.00	0
		15	0	18.05	18.07	17.98	19.00	0

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LTE Band 26_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				814.7	831.5	848.3		
Channel				26697	26865	27033		
1.4	QPSK	1	0	18.00	18.04	18.09	19.00	0
		1	2	17.95	18.08	17.95	19.00	0
		1	5	17.99	17.92	18.03	19.00	0
		3	0	18.08	18.07	18.01	19.00	0
		3	2	18.00	18.10	18.01	19.00	0
		3	3	18.04	17.94	17.95	19.00	0
1.4	16-QAM	1	0	17.93	18.04	18.08	19.00	0
		1	2	17.91	18.07	18.04	19.00	0
		1	5	17.95	17.90	18.07	19.00	0
		3	0	18.08	18.00	17.97	19.00	0
		3	2	17.95	18.04	18.07	19.00	0
		3	3	18.05	17.96	17.98	19.00	0
1.4	64-QAM	1	0	17.94	17.93	18.04	19.00	0
		1	2	17.94	18.03	18.00	19.00	0
		1	5	17.93	18.09	17.92	19.00	0
		3	0	18.04	18.03	18.01	19.00	0
		3	2	17.91	17.94	18.03	19.00	0
		3	3	18.05	18.06	18.06	19.00	0
		6	0	17.95	17.92	17.95	19.00	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1745	1770		
Channel				132072	132322	132572		
20	QPSK	1	0	12.41	12.49	12.45	12.50	0
		1	50	12.38	12.27	12.36	12.50	0
		1	99	12.33	12.30	12.24	12.50	0
		50	0	12.32	12.36	12.32	12.50	0
		50	25	12.31	12.31	12.22	12.50	0
		50	50	12.24	12.29	12.24	12.50	0
20	16-QAM	100	0	12.32	12.31	12.27	12.50	0
		1	0	12.23	12.22	12.37	12.50	0
		1	50	12.37	12.39	12.34	12.50	0
		1	99	12.25	12.29	12.32	12.50	0
		50	0	12.39	12.39	12.36	12.50	0
		50	25	12.22	12.36	12.22	12.50	0
20	64-QAM	50	50	12.36	12.25	12.26	12.50	0
		100	0	12.26	12.27	12.39	12.50	0
		1	0	12.40	12.38	12.21	12.50	0
		1	50	12.34	12.31	12.24	12.50	0
		1	99	12.31	12.26	12.29	12.50	0
		50	0	12.28	12.22	12.24	12.50	0
20	64-QAM	50	25	12.32	12.40	12.21	12.50	0
		50	50	12.36	12.23	12.33	12.50	0
		100	0	12.40	12.35	12.40	12.50	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1745	1772.5		
Channel				132047	132322	132597		
15	QPSK	1	0	12.24	12.20	12.22	12.50	0
		1	36	12.27	12.22	12.31	12.50	0
		1	74	12.33	12.30	12.29	12.50	0
		36	0	12.23	12.37	12.20	12.50	0
		36	18	12.23	12.39	12.33	12.50	0
		36	37	12.38	12.22	12.29	12.50	0
		75	0	12.29	12.28	12.36	12.50	0
15	16-QAM	1	0	12.22	12.35	12.27	12.50	0
		1	36	12.26	12.24	12.33	12.50	0
		1	74	12.34	12.32	12.21	12.50	0
		36	0	12.30	12.22	12.35	12.50	0
		36	18	12.22	12.24	12.29	12.50	0
		36	37	12.38	12.27	12.25	12.50	0
		75	0	12.33	12.38	12.34	12.50	0
15	64-QAM	1	0	12.30	12.27	12.29	12.50	0
		1	36	12.24	12.32	12.24	12.50	0
		1	74	12.35	12.31	12.37	12.50	0
		36	0	12.27	12.29	12.36	12.50	0
		36	18	12.32	12.37	12.34	12.50	0
		36	37	12.26	12.37	12.37	12.50	0
		75	0	12.29	12.34	12.31	12.50	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	12.27	12.29	12.29	12.50	0
		1	25	12.20	12.28	12.30	12.50	0
		1	49	12.22	12.24	12.22	12.50	0
		25	0	12.26	12.38	12.36	12.50	0
		25	12	12.34	12.21	12.22	12.50	0
		25	25	12.23	12.22	12.28	12.50	0
10	16-QAM	50	0	12.21	12.38	12.31	12.50	0
		1	0	12.31	12.32	12.30	12.50	0
		1	25	12.29	12.23	12.39	12.50	0
		1	49	12.32	12.21	12.26	12.50	0
		25	0	12.22	12.36	12.22	12.50	0
		25	12	12.28	12.21	12.37	12.50	0
10	64-QAM	25	25	12.29	12.36	12.25	12.50	0
		50	0	12.21	12.32	12.40	12.50	0
		1	0	12.28	12.32	12.39	12.50	0
		1	25	12.34	12.32	12.30	12.50	0
		1	49	12.25	12.33	12.31	12.50	0
		25	0	12.37	12.22	12.31	12.50	0
10	64-QAM	25	12	12.25	12.37	12.37	12.50	0
		25	25	12.38	12.29	12.33	12.50	0
		50	0	12.33	12.20	12.33	12.50	0
		50	0	12.33	12.20	12.33	12.50	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			1712.5	1745	1777.5			
Channel			131997	132322	132647			
5	QPSK	1	0	12.36	12.24	12.35	12.50	0
		1	12	12.25	12.31	12.39	12.50	0
		1	24	12.40	12.29	12.30	12.50	0
		12	0	12.37	12.37	12.28	12.50	0
		12	6	12.27	12.35	12.24	12.50	0
		12	13	12.25	12.33	12.31	12.50	0
5	16-QAM	25	0	12.26	12.30	12.36	12.50	0
		1	0	12.33	12.33	12.29	12.50	0
		1	12	12.36	12.23	12.26	12.50	0
		1	24	12.37	12.27	12.29	12.50	0
		12	0	12.23	12.35	12.39	12.50	0
		12	6	12.29	12.32	12.28	12.50	0
5	64-QAM	12	13	12.22	12.21	12.33	12.50	0
		25	0	12.32	12.39	12.38	12.50	0
		1	0	12.29	12.34	12.22	12.50	0
		1	12	12.30	12.31	12.29	12.50	0
		1	24	12.28	12.25	12.21	12.50	0
		12	0	12.30	12.31	12.38	12.50	0
5	64-QAM	12	6	12.24	12.28	12.22	12.50	0
		12	13	12.26	12.26	12.36	12.50	0
		25	0	12.31	12.23	12.38	12.50	0
		25	0	12.31	12.23	12.38	12.50	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1745	1778.5		
Channel				131987	132322	132657		
3	QPSK	1	0	12.30	12.21	12.37	12.50	0
		1	7	12.37	12.35	12.33	12.50	0
		1	14	12.37	12.40	12.21	12.50	0
		8	0	12.38	12.36	12.36	12.50	0
		8	4	12.25	12.37	12.35	12.50	0
		8	7	12.23	12.28	12.27	12.50	0
		15	0	12.22	12.25	12.28	12.50	0
3	16-QAM	1	0	12.31	12.34	12.33	12.50	0
		1	7	12.24	12.35	12.26	12.50	0
		1	14	12.35	12.30	12.31	12.50	0
		8	0	12.34	12.23	12.23	12.50	0
		8	4	12.31	12.40	12.40	12.50	0
		8	7	12.21	12.27	12.38	12.50	0
		15	0	12.34	12.35	12.27	12.50	0
3	64-QAM	1	0	12.24	12.28	12.38	12.50	0
		1	7	12.24	12.24	12.25	12.50	0
		1	14	12.35	12.36	12.22	12.50	0
		8	0	12.37	12.28	12.36	12.50	0
		8	4	12.28	12.37	12.26	12.50	0
		8	7	12.31	12.30	12.23	12.50	0
		15	0	12.26	12.39	12.31	12.50	0

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LTE Band 66								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1745	1779.3		
Channel				131979	132322	132665		
1.4	QPSK	1	0	12.27	12.35	12.31	12.50	0
		1	2	12.30	12.27	12.31	12.50	0
		1	5	12.32	12.35	12.25	12.50	0
		3	0	12.37	12.33	12.29	12.50	0
		3	2	12.37	12.31	12.37	12.50	0
		3	3	12.31	12.28	12.30	12.50	0
1.4	16-QAM	6	0	12.35	12.27	12.24	12.50	0
		1	0	12.36	12.37	12.37	12.50	0
		1	2	12.24	12.26	12.22	12.50	0
		1	5	12.37	12.25	12.20	12.50	0
		3	0	12.36	12.32	12.20	12.50	0
		3	2	12.36	12.30	12.20	12.50	0
1.4	64-QAM	3	3	12.30	12.26	12.25	12.50	0
		6	0	12.37	12.37	12.38	12.50	0
		1	0	12.22	12.28	12.29	12.50	0
		1	2	12.32	12.40	12.24	12.50	0
		1	5	12.34	12.35	12.29	12.50	0
		3	0	12.37	12.36	12.33	12.50	0
		3	2	12.34	12.32	12.32	12.50	0
		3	3	12.30	12.26	12.30	12.50	0
		6	0	12.26	12.22	12.35	12.50	0

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5.4 TDD LTE

sensor off

LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	23.66	23.60	23.56	24.00	0
		1	50	23.35	23.51	23.45	24.00	0
		1	99	23.37	23.53	23.35	24.00	0
		50	0	22.42	22.46	22.47	23.00	1
		50	25	22.50	22.44	22.42	23.00	1
		50	50	22.50	22.49	22.46	23.00	1
20	16-QAM	100	0	22.49	22.54	22.51	23.00	1
		1	0	22.45	22.50	22.37	23.00	1
		1	50	22.42	22.36	22.53	23.00	1
		1	99	22.37	22.48	22.54	23.00	1
		50	0	21.48	21.40	21.40	22.00	2
		50	25	21.41	21.42	21.36	22.00	2
20	64-QAM	50	50	21.50	21.48	21.42	22.00	2
		100	0	21.41	21.55	21.50	22.00	2
		1	0	21.41	21.47	21.42	22.00	2
		1	50	21.44	21.51	21.36	22.00	2
		1	99	21.49	21.37	21.40	22.00	2
		50	0	20.48	20.46	20.39	21.00	3
20	64-QAM	50	25	20.47	20.52	20.40	21.00	3
		50	50	20.46	20.54	20.38	21.00	3
		50	0	20.52	20.36	20.44	21.00	3
		50	0	20.52	20.36	20.44	21.00	3

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	23.55	23.50	23.55	24.00	0
		1	36	23.39	23.53	23.53	24.00	0
		1	74	23.51	23.42	23.38	24.00	0
		36	0	22.42	22.43	22.48	23.00	1
		36	18	22.55	22.42	22.49	23.00	1
		36	37	22.51	22.54	22.46	23.00	1
		75	0	22.47	22.39	22.48	23.00	1
15	16-QAM	1	0	22.45	22.36	22.49	23.00	1
		1	36	22.54	22.41	22.46	23.00	1
		1	74	22.54	22.42	22.47	23.00	1
		36	0	21.35	21.49	21.47	22.00	2
		36	18	21.43	21.46	21.47	22.00	2
		36	37	21.50	21.52	21.39	22.00	2
		75	0	21.38	21.52	21.43	22.00	2
15	64-QAM	1	0	21.38	21.39	21.36	22.00	2
		1	36	21.45	21.40	21.45	22.00	2
		1	74	21.49	21.52	21.54	22.00	2
		36	0	20.47	20.51	20.53	21.00	3
		36	18	20.38	20.53	20.52	21.00	3
		36	37	20.52	20.36	20.47	21.00	3
		75	0	20.43	20.47	20.47	21.00	3

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2575	2595	2615		
Channel				37800	38000	38200		
10	QPSK	1	0	23.52	23.47	23.42	24.00	0
		1	25	23.52	23.43	23.52	24.00	0
		1	49	23.41	23.36	23.50	24.00	0
		25	0	22.36	22.42	22.41	23.00	1
		25	12	22.39	22.48	22.54	23.00	1
		25	25	22.45	22.54	22.53	23.00	1
10	16-QAM	1	0	22.53	22.46	22.36	23.00	1
		1	25	22.51	22.55	22.50	23.00	1
		1	49	22.50	22.46	22.45	23.00	1
		25	0	21.39	21.44	21.35	22.00	2
		25	12	21.37	21.36	21.42	22.00	2
		25	25	21.46	21.53	21.38	22.00	2
10	64-QAM	1	0	21.42	21.37	21.54	22.00	2
		1	25	21.42	21.39	21.42	22.00	2
		1	49	21.35	21.43	21.38	22.00	2
		25	0	20.45	20.41	20.46	21.00	3
		25	12	20.45	20.40	20.44	21.00	3
		25	25	20.49	20.39	20.43	21.00	3
		50	0	20.36	20.42	20.46	21.00	3

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	23.47	23.43	23.52	24.00	0
		1	12	23.49	23.52	23.54	24.00	0
		1	24	23.42	23.35	23.51	24.00	0
		12	0	22.49	22.38	22.38	23.00	1
		12	6	22.46	22.45	22.44	23.00	1
		12	13	22.41	22.42	22.39	23.00	1
		25	0	22.47	22.38	22.36	23.00	1
5	16-QAM	1	0	22.42	22.37	22.44	23.00	1
		1	12	22.41	22.39	22.54	23.00	1
		1	24	22.46	22.46	22.47	23.00	1
		12	0	21.51	21.51	21.40	22.00	2
		12	6	21.41	21.41	21.43	22.00	2
		12	13	21.50	21.45	21.41	22.00	2
		25	0	21.38	21.38	21.35	22.00	2
5	64-QAM	1	0	21.53	21.53	21.45	22.00	2
		1	12	21.43	21.47	21.47	22.00	2
		1	24	21.45	21.44	21.42	22.00	2
		12	0	20.50	20.43	20.38	21.00	3
		12	6	20.50	20.44	20.50	21.00	3
		12	13	20.43	20.35	20.44	21.00	3
		25	0	20.54	20.52	20.52	21.00	3

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
Channel				39750	40185	40620	41055	41490		
20	QPSK	1	0	23.79	23.68	23.87	23.85	23.81	24.00	0
		1	50	23.70	23.83	23.75	23.66	23.66	24.00	0
		1	99	23.77	23.75	23.84	23.68	23.73	24.00	0
		50	0	22.71	22.79	22.79	22.81	22.79	23.00	1
		50	25	22.79	22.85	22.67	22.81	22.73	23.00	1
		50	50	22.75	22.77	22.84	22.73	22.79	23.00	1
		100	0	22.74	22.79	22.69	22.68	22.68	23.00	1
20	16-QAM	1	0	22.69	22.66	22.73	22.82	22.84	23.00	1
		1	50	22.80	22.69	22.70	22.73	22.75	23.00	1
		1	99	22.78	22.74	22.66	22.66	22.76	23.00	1
		50	0	21.73	21.69	21.83	21.74	21.70	22.00	2
		50	25	21.75	21.81	21.69	21.82	21.83	22.00	2
		50	50	21.70	21.74	21.68	21.75	21.74	22.00	2
		100	0	21.73	21.75	21.70	21.73	21.79	22.00	2
20	64-QAM	1	0	21.78	21.84	21.84	21.71	21.68	22.00	2
		1	50	21.78	21.76	21.76	21.69	21.80	22.00	2
		1	99	21.78	21.78	21.74	21.66	21.68	22.00	2
		50	0	20.73	20.69	20.70	20.71	20.65	21.00	3
		50	25	20.71	20.82	20.80	20.75	20.77	21.00	3
		50	50	20.74	20.80	20.77	20.72	20.77	21.00	3
		100	0	20.76	20.69	20.82	20.68	20.75	21.00	3
LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	23.71	23.74	23.79	23.74	23.83	24.00	0
		1	36	23.83	23.70	23.77	23.71	23.83	24.00	0
		1	74	23.85	23.82	23.67	23.79	23.67	24.00	0
		36	0	22.75	22.82	22.84	22.68	22.71	23.00	1
		36	18	22.77	22.78	22.79	22.75	22.81	23.00	1
		36	37	22.65	22.81	22.68	22.77	22.71	23.00	1
		75	0	22.82	22.68	22.67	22.81	22.79	23.00	1
15	16-QAM	1	0	22.82	22.71	22.71	22.79	22.78	23.00	1
		1	36	22.66	22.69	22.80	22.73	22.67	23.00	1
		1	74	22.68	22.81	22.68	22.74	22.81	23.00	1
		36	0	21.74	21.67	21.84	21.75	21.80	22.00	2
		36	18	21.78	21.78	21.68	21.76	21.74	22.00	2
		36	37	21.73	21.83	21.66	21.83	21.75	22.00	2
		75	0	21.83	21.78	21.74	21.67	21.85	22.00	2
15	64-QAM	1	0	21.68	21.77	21.75	21.79	21.82	22.00	2
		1	36	21.73	21.73	21.69	21.72	21.83	22.00	2
		1	74	21.82	21.66	21.81	21.69	21.66	22.00	2
		36	0	20.72	20.84	20.80	20.83	20.74	21.00	3
		36	18	20.82	20.70	20.80	20.70	20.77	21.00	3
		36	37	20.77	20.75	20.67	20.76	20.65	21.00	3
		75	0	20.66	20.71	20.74	20.75	20.84	21.00	3

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
Channel				39700	40160	40620	41080	41540		
10	QPSK	1	0	23.79	23.81	23.72	23.84	23.74	24.00	0
		1	25	23.70	23.80	23.80	23.71	23.72	24.00	0
		1	49	23.83	23.79	23.79	23.82	23.66	24.00	0
		25	0	22.66	22.83	22.82	22.76	22.72	23.00	1
		25	12	22.78	22.79	22.72	22.83	22.74	23.00	1
		25	25	22.75	22.75	22.80	22.81	22.82	23.00	1
10	16-QAM	50	0	22.76	22.66	22.76	22.76	22.70	23.00	1
		1	0	22.76	22.70	22.80	22.82	22.67	23.00	1
		1	25	22.65	22.65	22.77	22.80	22.70	23.00	1
		1	49	22.66	22.67	22.65	22.82	22.76	23.00	1
		25	0	21.67	21.79	21.67	21.83	21.79	22.00	2
		25	12	21.81	21.81	21.81	21.78	21.70	22.00	2
10	64-QAM	25	25	21.74	21.80	21.71	21.71	21.83	22.00	2
		50	0	21.83	21.66	21.76	21.79	21.82	22.00	2
		1	0	21.66	21.76	21.80	21.74	21.69	22.00	2
		1	25	21.80	21.68	21.70	21.84	21.71	22.00	2
		1	49	21.71	21.71	21.67	21.69	21.72	22.00	2
		25	0	20.69	20.73	20.81	20.68	20.79	21.00	3
10	64-QAM	25	12	20.82	20.78	20.66	20.84	20.77	21.00	3
		25	25	20.84	20.71	20.65	20.75	20.83	21.00	3
		50	0	20.67	20.78	20.72	20.68	20.75	21.00	3

LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	23.77	23.74	23.72	23.73	23.75	24.00	0
		1	12	23.83	23.79	23.67	23.66	23.72	24.00	0
		1	24	23.83	23.70	23.82	23.85	23.68	24.00	0
		12	0	22.71	22.81	22.76	22.71	22.82	23.00	1
		12	6	22.69	22.79	22.74	22.69	22.77	23.00	1
		12	13	22.68	22.72	22.74	22.84	22.83	23.00	1
5	16-QAM	25	0	22.66	22.70	22.76	22.80	22.74	23.00	1
		1	0	22.75	22.69	22.78	22.85	22.68	23.00	1
		1	12	22.71	22.75	22.69	22.84	22.76	23.00	1
		1	24	22.80	22.66	22.68	22.68	22.80	23.00	1
		12	0	21.83	21.69	21.71	21.76	21.83	22.00	2
		12	6	21.79	21.81	21.66	21.77	21.79	22.00	2
5	64-QAM	12	13	21.70	21.75	21.85	21.85	21.68	22.00	2
		25	0	21.73	21.81	21.69	21.68	21.74	22.00	2
		1	0	21.66	21.84	21.83	21.71	21.79	22.00	2
		1	12	21.78	21.75	21.66	21.77	21.70	22.00	2
		1	24	21.83	21.66	21.80	21.76	21.72	22.00	2
		12	0	20.68	20.69	20.74	20.75	20.75	21.00	3
5	64-QAM	12	6	20.76	20.82	20.82	20.75	20.83	21.00	3
		12	13	20.74	20.68	20.70	20.73	20.75	21.00	3
		25	0	20.77	20.73	20.74	20.84	20.77	21.00	3

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	17.11	17.15	17.21	17.50	0
		1	50	17.08	16.99	16.98	17.50	0
		1	99	17.00	17.07	17.01	17.50	0
		50	0	17.09	16.95	17.02	17.50	0
		50	25	16.95	16.95	16.91	17.50	0
		50	50	17.05	17.05	17.06	17.50	0
		100	0	16.93	17.02	16.93	17.50	0
20	16-QAM	1	0	16.98	16.98	17.06	17.50	0
		1	50	17.06	16.91	16.95	17.50	0
		1	99	17.07	17.01	17.07	17.50	0
		50	0	16.99	17.05	17.04	17.50	0
		50	25	16.96	16.93	16.90	17.50	0
		50	50	16.92	16.91	17.07	17.50	0
		100	0	17.02	17.04	16.97	17.50	0
20	64-QAM	1	0	16.90	17.03	17.03	17.50	0
		1	50	16.97	17.01	17.04	17.50	0
		1	99	17.01	17.06	17.00	17.50	0
		50	0	17.00	16.99	17.07	17.50	0
		50	25	17.08	17.10	17.05	17.50	0
		50	50	16.97	17.00	16.94	17.50	0
		100	0	16.93	17.01	16.96	17.50	0

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	16.94	17.01	17.10	17.50	0
		1	36	16.99	16.95	16.98	17.50	0
		1	74	16.91	16.90	17.00	17.50	0
		36	0	17.10	17.03	16.96	17.50	0
		36	18	17.10	17.03	16.99	17.50	0
		36	37	16.96	16.93	17.06	17.50	0
		75	0	17.05	16.94	17.03	17.50	0
15	16-QAM	1	0	17.10	16.96	16.94	17.50	0
		1	36	16.91	16.90	16.95	17.50	0
		1	74	17.08	16.97	17.09	17.50	0
		36	0	17.03	16.94	17.07	17.50	0
		36	18	16.93	16.92	17.04	17.50	0
		36	37	16.94	17.07	17.03	17.50	0
		75	0	16.92	17.05	17.01	17.50	0
15	64-QAM	1	0	17.01	16.95	16.93	17.50	0
		1	36	17.05	17.07	16.97	17.50	0
		1	74	16.90	16.99	16.91	17.50	0
		36	0	16.93	17.04	16.99	17.50	0
		36	18	16.93	17.08	16.93	17.50	0
		36	37	17.02	16.91	16.98	17.50	0
		75	0	16.98	16.91	17.05	17.50	0

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2575	2595	2615			
Channel			37800	38000	38200			
10	QPSK	1	0	16.93	17.07	17.07	17.50	0
		1	25	17.00	16.97	16.92	17.50	0
		1	49	17.08	17.05	17.09	17.50	0
		25	0	17.00	17.06	17.09	17.50	0
		25	12	16.95	16.92	16.97	17.50	0
		25	25	17.06	16.94	16.96	17.50	0
10	16-QAM	1	0	17.04	17.02	16.93	17.50	0
		1	25	16.98	16.95	17.10	17.50	0
		1	49	16.99	16.94	17.05	17.50	0
		25	0	16.91	16.98	16.94	17.50	0
		25	12	17.05	16.91	17.01	17.50	0
		25	25	16.91	17.04	17.08	17.50	0
10	64-QAM	1	0	16.99	16.90	16.96	17.50	0
		1	25	17.00	16.94	16.94	17.50	0
		1	49	16.99	16.92	16.97	17.50	0
		25	0	16.96	16.93	16.95	17.50	0
		25	12	17.10	17.02	16.95	17.50	0
		25	25	17.09	17.00	17.08	17.50	0
		50	0	16.99	17.04	17.02	17.50	0

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	17.00	17.03	16.95	17.50	0
		1	12	17.09	17.07	17.08	17.50	0
		1	24	17.10	17.04	16.94	17.50	0
		12	0	16.96	16.96	17.09	17.50	0
		12	6	17.06	16.98	16.98	17.50	0
		12	13	16.97	17.02	16.91	17.50	0
5	16-QAM	25	0	17.02	17.05	16.94	17.50	0
		1	0	16.97	17.03	16.95	17.50	0
		1	12	17.04	17.03	16.99	17.50	0
		1	24	17.00	16.92	17.00	17.50	0
		12	0	17.01	16.93	17.06	17.50	0
		12	6	17.10	17.01	17.05	17.50	0
5	64-QAM	12	13	17.06	17.03	17.09	17.50	0
		25	0	17.07	16.95	17.06	17.50	0
		1	0	16.92	16.99	16.93	17.50	0
		1	12	17.10	17.07	16.99	17.50	0
		1	24	17.08	17.05	17.07	17.50	0
		12	0	17.02	17.06	17.02	17.50	0
5	64-QAM	12	6	17.07	17.09	16.99	17.50	0
		12	13	16.94	17.08	17.01	17.50	0
		25	0	17.01	17.04	16.93	17.50	0
		25	0	17.01	17.04	16.93	17.50	0

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
Channel				39750	40185	40620	41055	41490		
20	QPSK	1	0	19.49	19.31	19.30	19.33	19.28	19.50	0
		1	50	19.10	19.19	19.07	19.06	19.16	19.50	0
		1	99	19.07	19.13	19.16	19.17	19.16	19.50	0
		50	0	19.03	19.20	19.09	19.15	19.12	19.50	0
		50	25	19.17	19.18	19.01	19.16	19.19	19.50	0
		50	50	19.13	19.09	19.12	19.05	19.14	19.50	0
		100	0	19.15	19.07	19.16	19.03	19.17	19.50	0
20	16-QAM	1	0	19.16	19.08	19.14	19.04	19.05	19.50	0
		1	50	19.02	19.14	19.14	19.00	19.14	19.50	0
		1	99	19.01	19.08	19.08	19.09	19.17	19.50	0
		50	0	19.15	19.03	19.20	19.02	19.00	19.50	0
		50	25	19.20	19.08	19.03	19.17	19.14	19.50	0
		50	50	19.10	19.08	19.15	19.14	19.06	19.50	0
		100	0	19.06	19.17	19.05	19.17	19.13	19.50	0
20	64-QAM	1	0	19.19	19.02	19.11	19.13	19.03	19.50	0
		1	50	19.17	19.19	19.06	19.17	19.02	19.50	0
		1	99	19.16	19.00	19.05	19.12	19.11	19.50	0
		50	0	19.09	19.08	19.11	19.05	19.19	19.50	0
		50	25	19.05	19.01	19.02	19.10	19.17	19.50	0
		50	50	19.18	19.13	19.15	19.04	19.18	19.50	0
		100	0	19.11	19.14	19.00	19.04	19.18	19.50	0
LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	19.15	19.14	19.08	19.12	19.16	19.50	0
		1	36	19.04	19.10	19.18	19.11	19.12	19.50	0
		1	74	19.00	19.16	19.05	19.10	19.15	19.50	0
		36	0	19.18	19.12	19.06	19.09	19.08	19.50	0
		36	18	19.03	19.15	19.06	19.19	19.08	19.50	0
		36	37	19.06	19.11	19.02	19.03	19.00	19.50	0
		75	0	19.01	19.19	19.08	19.16	19.02	19.50	0
15	16-QAM	1	0	19.06	19.12	19.00	19.19	19.05	19.50	0
		1	36	19.11	19.16	19.05	19.10	19.10	19.50	0
		1	74	19.08	19.00	19.09	19.16	19.18	19.50	0
		36	0	19.17	19.09	19.19	19.10	19.07	19.50	0
		36	18	19.04	19.07	19.02	19.08	19.00	19.50	0
		36	37	19.12	19.06	19.11	19.07	19.18	19.50	0
		75	0	19.16	19.19	19.19	19.16	19.02	19.50	0
15	64-QAM	1	0	19.09	19.08	19.18	19.11	19.10	19.50	0
		1	36	19.10	19.10	19.12	19.00	19.08	19.50	0
		1	74	19.04	19.05	19.19	19.09	19.01	19.50	0
		36	0	19.05	19.08	19.03	19.16	19.03	19.50	0
		36	18	19.17	19.17	19.16	19.03	19.00	19.50	0
		36	37	19.18	19.05	19.18	19.05	19.13	19.50	0
		75	0	19.12	19.19	19.07	19.09	19.02	19.50	0

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2501	2547	2593	2639	2685			
Channel			39700	40160	40620	41080	41540			
10	QPSK	1	0	19.13	19.11	19.10	19.03	19.08	19.50	0
		1	25	19.17	19.07	19.05	19.14	19.10	19.50	0
		1	49	19.04	19.04	19.05	19.01	19.05	19.50	0
		25	0	19.08	19.16	19.15	19.02	19.01	19.50	0
		25	12	19.12	19.12	19.01	19.01	19.08	19.50	0
		25	25	19.13	19.09	19.07	19.08	19.10	19.50	0
10	16-QAM	50	0	19.08	19.11	19.09	19.19	19.04	19.50	0
		1	0	19.19	19.17	19.10	19.19	19.01	19.50	0
		1	25	19.07	19.04	19.14	19.12	19.09	19.50	0
		1	49	19.03	19.10	19.16	19.05	19.05	19.50	0
		25	0	19.01	19.13	19.11	19.11	19.05	19.50	0
		25	12	19.02	19.15	19.03	19.20	19.04	19.50	0
10	64-QAM	25	25	19.15	19.02	19.04	19.19	19.12	19.50	0
		50	0	19.13	19.19	19.02	19.09	19.11	19.50	0
		1	0	19.06	19.13	19.12	19.06	19.17	19.50	0
		1	25	19.13	19.05	19.15	19.03	19.14	19.50	0
		1	49	19.04	19.01	19.15	19.07	19.03	19.50	0
		25	0	19.01	19.19	19.09	19.02	19.05	19.50	0
5	QPSK	25	12	19.20	19.05	19.02	19.06	19.18	19.50	0
		25	25	19.05	19.14	19.11	19.02	19.18	19.50	0
		50	0	19.16	19.05	19.06	19.20	19.18	19.50	0
		1	0	19.11	19.18	19.16	19.11	19.13	19.50	0
		1	12	19.19	19.16	19.07	19.03	19.08	19.50	0
		1	24	19.01	19.06	19.06	19.17	19.06	19.50	0
5	16-QAM	12	0	19.02	19.17	19.17	19.12	19.05	19.50	0
		12	6	19.14	19.07	19.10	19.05	19.15	19.50	0
		12	13	19.16	19.15	19.01	19.14	19.09	19.50	0
		25	0	19.14	19.13	19.00	19.08	19.13	19.50	0
		1	0	19.06	19.19	19.12	19.05	19.01	19.50	0
		1	12	19.04	19.08	19.05	19.15	19.15	19.50	0
5	64-QAM	1	24	19.09	19.09	19.10	19.18	19.12	19.50	0
		12	0	19.03	19.00	19.01	19.11	19.17	19.50	0
		12	6	19.02	19.03	19.20	19.18	19.08	19.50	0
		12	13	19.20	19.19	19.19	19.13	19.05	19.50	0
		25	0	19.05	19.03	19.13	19.01	19.00	19.50	0
		1	0	19.10	19.09	19.04	19.15	19.06	19.50	0
5	QPSK	1	12	19.05	19.15	19.05	19.14	19.14	19.50	0
		1	24	19.04	19.12	19.16	19.01	19.05	19.50	0
		12	0	19.03	19.01	19.06	19.03	19.19	19.50	0
		12	6	19.15	19.12	19.07	19.09	19.04	19.50	0
		12	13	19.14	19.18	19.09	19.15	19.15	19.50	0
		25	0	19.10	19.11	19.14	19.13	19.07	19.50	0

LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)			2498.5	2545.8	2593	2640.3	2687.5			
Channel			39675	40148	40620	41093	41565			
5	QPSK	1	0	19.11	19.18	19.16	19.11	19.13	19.50	0
		1	12	19.19	19.16	19.07	19.03	19.08	19.50	0
		1	24	19.01	19.06	19.06	19.17	19.06	19.50	0
		12	0	19.02	19.17	19.17	19.12	19.05	19.50	0
		12	6	19.14	19.07	19.10	19.05	19.15	19.50	0
		12	13	19.16	19.15	19.01	19.14	19.09	19.50	0
5	16-QAM	25	0	19.14	19.13	19.00	19.08	19.13	19.50	0
		1	0	19.06	19.19	19.12	19.05	19.01	19.50	0
		1	12	19.04	19.08	19.05	19.15	19.15	19.50	0
		1	24	19.09	19.09	19.10	19.18	19.12	19.50	0
		12	0	19.03	19.00	19.01	19.11	19.17	19.50	0
		12	6	19.02	19.03	19.20	19.18	19.08	19.50	0
5	64-QAM	12	13	19.20	19.19	19.19	19.13	19.05	19.50	0
		25	0	19.05	19.03	19.13	19.01	19.00	19.50	0
		1	0	19.10	19.09	19.04	19.15	19.06	19.50	0
		1	12	19.05	19.15	19.05	19.14	19.14	19.50	0
		1	24	19.04	19.12	19.16	19.01	19.05	19.50	0
		12	0	19.03	19.01	19.06	19.03	19.19	19.50	0
5	QPSK	12	6	19.15	19.12	19.07	19.09	19.04	19.50	0
		12	13	19.14	19.18	19.09	19.15	19.15	19.50	0
		25	0	19.10	19.11	19.14	19.13	19.07	19.50	0

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5.5 LTE DL CA

LTE Downlink 2CA conducted power table sensor off

Two Component Carrier Maximum Conducted Power															
PCC									SCC				Power (Level 1)		Configurations
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx Power with DL CA active (dBm)	LTE Tx Power with DL CA inactive (dBm)	
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	902	1960.2	23.69	23.97	CA2C
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B2	20	898	1959.8	23.78	23.98	CA2C
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	23.33	23.58	CA7C
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3048	2649.8	23.41	23.77	CA7C
LTE B38	20	38150	2610	QPSK	1	0	38150	2610	LTE B38	20	37952	2590.2	23.24	23.56	CA38C
LTE B38	20	37850	2580	QPSK	1	0	37850	2580	LTE B38	20	38048	2599.8	23.30	23.66	CA38C
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	23.55	23.81	CA41C
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	23.51	23.79	CA41C
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3350	2680	23.41	23.77	CA7A-7A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2850	2630	23.33	23.58	CA7A-7A
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41490	2680	23.51	23.79	CA41A-41A
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	39750	2506	23.55	23.81	CA41A-41A
LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67036	2170	22.30	22.68	CA66A-66A
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66536	2120	22.21	22.59	CA66A-66A
LTE B2	20	18700	1860	QPSK	1	0	700	1940	LTE B5	10	2525	881.5	23.82	23.98	CA2A-5A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B2	20	900	1960	23.64	23.91	CA2A-5A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B5	10	2525	881.5	23.71	23.97	CA4A-5A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B4	20	2175	2132.5	23.54	23.91	CA4A-5A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B7	20	3100	2655	23.61	23.91	CA5A-7A
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B5	10	2525	881.5	23.46	23.77	CA5A-7A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B41	20	40620	2593	23.63	23.91	CA5A-41A
LTE B41	20	40620	2593	QPSK	1	0	40620	2593	LTE B5	10	2525	881.5	23.52	23.87	CA5A-41A
LTE B5	10	20525	836.5	QPSK	1	0	2525	881.5	LTE B66	20	66786	2145	23.55	23.91	CA5A-66A
LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B5	10	2525	881.5	22.63	23.12	CA5A-66A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	23.12	23.41	CA26A-41A
LTE B41	20	40620	2593	QPSK	1	0	40620	2593	LTE B26	15	8865	876.5	23.47	23.87	CA26A-41A

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sensor on

Two Component Carrier Maximum Conducted Power															
PCC								SCC				Power (Level 1)		Configurations	
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	Modulation	PCC (UL) RB	PCC (UL) RB Offset	PCC (DL) Channel	PCC (DL) Frequency [MHz]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx.Power with DL CA active (dBm)		LTE Tx.Power with DL CA inactive (dBm)
LTE B2	20	19100	1900	QPSK	1	0	1100	1980	LTE B2	20	902	1960.2	12.12	12.64	CA2C
LTE B2	20	18700	1860	QPSK	50	25	700	1940	LTE B2	20	898	1959.8	12.24	12.53	CA2C
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	3152	2660.2	13.14	13.63	CA7C
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3048	2649.8	13.35	13.75	CA7C
LTE B38	20	38150	2610	QPSK	1	0	38150	2610	LTE B38	20	37952	2590.2	17.06	17.21	CA38C
LTE B38	20	37850	2580	QPSK	1	0	37850	2580	LTE B38	20	38048	2599.8	16.93	17.11	CA38C
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	41292	2660.2	18.84	19.28	CA41C
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	39948	2525.8	19.18	19.49	CA41C
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B7	20	3350	2680	13.28	13.75	CA7A-7A
LTE B7	20	21350	2560	QPSK	1	0	3350	2680	LTE B7	20	2850	2630	13.11	13.63	CA7A-7A
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B41	20	41490	2680	19.22	19.49	CA41A-41A
LTE B41	20	41490	2680	QPSK	1	0	41490	2680	LTE B41	20	39750	2506	18.79	19.28	CA41A-41A
LTE B66	20	132072	1720	QPSK	1	0	66536	2120	LTE B66	20	67036	2170	11.98	12.41	CA66A-66A
LTE B66	20	132572	1770	QPSK	1	0	67036	2170	LTE B66	20	66536	2120	12.04	12.45	CA66A-66A
LTE B2	20	18900	1880	QPSK	1	0	900	1960	LTE B5	10	2525	881.5	12.29	12.66	CA2A-5A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B2	20	900	1960	19.15	19.44	CA2A-5A
LTE B4	20	20050	1720	QPSK	1	0	2050	2120	LTE B5	10	2525	881.5	13.55	13.92	CA4A-5A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B4	20	2175	2132.5	19.10	19.44	CA4A-5A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B7	20	3100	2655	19.16	19.44	CA5A-7A
LTE B7	20	20850	2510	QPSK	1	0	2850	2630	LTE B5	10	2525	881.5	13.44	13.75	CA5A-7A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B41	20	40620	2593	19.02	19.44	CA5A-41A
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B5	10	2525	881.5	19.12	19.49	CA5A-41A
LTE B5	10	20450	829	QPSK	1	0	2450	874	LTE B66	20	66786	2145	19.09	19.44	CA5A-66A
LTE B66	20	132322	1745	QPSK	1	0	66786	2145	LTE B5	10	2525	881.5	12.22	12.49	CA5A-66A
LTE B26	15	26865	831.5	QPSK	1	0	8865	876.5	LTE B41	20	40620	2593	17.86	18.21	CA26A-41A
LTE B41	20	39750	2506	QPSK	1	0	39750	2506	LTE B26	15	8865	876.5	19.21	19.49	CA26A-41A

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LTE CA information

A)

The device supports downlink LTE Carrier Aggregation (CA) only. Other Release 10 features or higher features are not supported, including Enhanced SC-FDMA, Uplink MIMO or other antenna diversity configurations etc. All uplink communications are identical to the Release 8 Specifications.

The possible downlink LTE CA combinations supported by this device are as below tables per 3GPP TS 36.521-1. The conducted power measurement results of downlink LTE CA are provided as above per 3GPP TS 36.521-1. According to KDB 941225 D05A and RF exposure procedures in TCB workshop April 2018, the downlink LTE CA SAR test is not required.

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B)

CA combination table

Index	2CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA 2C		No
2CC #2	CA 7C		No
2CC #3	CA 38C		No
2CC #4	CA 41C		No
2CC #5	CA 7A-7A		No
2CC #6	CA 41A-41A		No
2CC #7	CA 66A-66A		No
2CC #8	CA 2A-5A		No
2CC #9	CA 4A-5A		No
2CC #10	CA 5A-7A		No
2CC #11	CA 5A-41A		No
2CC #12	CA 5A-66A		No
2CC #13	CA 26A-41A		No

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Note:

- 1) The channel spacing and aggregated channel bandwidth for CA are identical to the associated specification in 3GPP TS 36.521-1.
- 2) The reference test frequencies for CA refers to 3GPP TS 36.508.
- 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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5.6 LTE DL MIMO

SAR test exclusion for LTE DL MIMO was determined by UL power measurements with and without DL MIMO. SAR for DL MIMO was not needed since the maximum output power with DL MIMO active was not > 0.25dB higher than the maximum output power with DL MIMO inactive.

sensor off

DL MIMO maximum power verification								
PCC							TX power level 1 (dBm)	
UL							DL MIMO active	DL MIMO inactive
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel		
LTE B2	20	QPSK	1	0	1860	18700	23.73	23.98
LTE B4	20	QPSK	1	0	1720	20050	23.70	23.97
LTE B5	10	QPSK	1	0	836.5	20525	23.60	23.91
LTE B7	20	QPSK	1	0	2510	20850	23.49	23.77
LTE B26	15	QPSK	1	0	831.5	26865	23.14	23.41
LTE B66	20	QPSK	1	0	1745	132322	22.82	23.12
LTE B38	20	QPSK	1	0	2580	37850	23.41	23.66
LTE B41	20	QPSK	1	0	2593	40620	23.59	23.87

sensor on

DL MIMO maximum power verification								
PCC							TX power level 1 (dBm)	
UL							DL MIMO active	DL MIMO inactive
Band	Bandwidth [MHz]	Modulation	RB	RB Offset	Frequency [MHz]	Channel		
LTE B2	20	QPSK	1	0	1880	18900	12.27	12.66
LTE B4	20	QPSK	1	0	1720	20050	13.48	13.92
LTE B5	10	QPSK	1	0	829	20450	18.98	19.44
LTE B7	20	QPSK	1	0	2510	20850	13.39	13.75
LTE B26	15	QPSK	1	0	831.5	26865	18.01	18.21
LTE B66	20	QPSK	1	0	1745	132322	12.11	12.49
LTE B38	20	QPSK	1	0	2610	38150	16.73	17.21
LTE B41	20	QPSK	1	0	2506	39750	19.13	19.49

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5.7 WLAN

sensor off

Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
2.45GHz	802.11b	1	2412	1Mbps	11.00	10.47
		6	2437		11.00	10.64
		11	2462		11.00	10.68
	802.11g	1	2412	6Mbps	14.50	14.14
		6	2437		14.50	14.17
		11	2462		14.50	14.15
	802.11n20-HT0	1	2412	MCS0	14.00	13.52
		6	2437		14.00	13.66
		11	2462		14.00	13.58
Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	14.50	14.14
		40	5200		14.50	14.08
		44	5220		14.50	14.12
		48	5240		14.50	14.17
	802.11n20-HT0	36	5180	MCS0	14.50	14.01
		40	5200		14.50	13.99
		44	5220		14.50	14.00
		48	5240		14.50	13.92
	802.11ac20-VHT0	36	5180	MCS0	14.50	13.92
		40	5200		14.50	13.95
		44	5220		14.50	14.03
		48	5240		14.50	14.02
	802.11n40-HT0	38	5190	MCS0	14.00	13.88
		46	5230		14.00	13.92
	802.11ac40-VHT0	38	5190	MCS0	14.00	13.79
		46	5230		14.00	13.92
	802.11ac80-VHT0	42	5210	MCS0	13.50	13.48

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Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	14.50	14.14
		56	5280		14.50	14.10
		60	5300		14.50	14.19
		64	5320		14.50	14.15
	802.11n20-HT0	52	5260	MCS0	14.50	13.89
		56	5280		14.50	14.02
		60	5300		14.50	14.06
		64	5320		14.50	13.99
	802.11ac20-VHT0	52	5260	MCS0	14.50	14.01
		56	5280		14.50	14.03
		60	5300		14.50	14.10
		64	5320		14.50	14.03
	802.11n40-HT0	54	5270	MCS0	14.00	13.91
		62	5310		14.00	13.98
	802.11ac40-VHT0	54	5270	MCS0	14.00	13.85
		62	5310		14.00	13.95
	802.11ac80-VHT0	58	5290	MCS0	13.50	13.06

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Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	14.00	13.80
		120	5600		14.00	13.81
		140	5700		14.00	13.72
		144	5720		14.00	13.84
	802.11n20-HT0	100	5500	MCS0	14.00	13.77
		120	5600		14.00	13.75
		140	5700		14.00	13.80
		144	5720		14.00	13.74
	802.11ac20-VHT0	100	5500	MCS0	14.00	13.74
		120	5600		14.00	13.81
		140	5700		14.00	13.73
		144	5720		14.00	13.71
	802.11n40-HT0	102	5510	MCS0	14.00	13.73
		118	5590		14.00	13.71
		134	5670		14.00	13.88
		142	5710		14.00	13.75
	802.11ac40-VHT0	102	5510	MCS0	14.00	13.67
		118	5590		14.00	13.57
		134	5670		14.00	13.84
		142	5710		14.00	13.80
	802.11ac80-VHT0	106	5530	MCS0	13.50	13.20
		122	5610		13.50	13.02
		138	5690		13.50	12.95
	Ant 4					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	14.00	13.50
		157	5785		14.00	13.48
		165	5825		14.00	13.54
	802.11n20-HT0	149	5745	MCS0	14.00	13.52
		157	5785		14.00	13.63
		165	5825		14.00	13.57
	802.11ac20-VHT0	149	5745	MCS0	14.00	13.55
		157	5785		14.00	13.61
		165	5825		14.00	13.50
	802.11n40-HT0	151	5755	MCS0	14.00	13.66
		159	5795		14.00	13.55
	802.11ac40-VHT0	151	5755	MCS0	14.00	13.48
		159	5795		14.00	13.56
	802.11ac80-VHT0	155	5775	MCS0	13.50	13.23

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sensor on

Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.15-5.25 GHz	802.11a	36	5180	6Mbps	8.50	8.32
		40	5200		8.50	8.29
		44	5220		8.50	8.31
		48	5240		8.50	8.30
	802.11n20-HT0	36	5180	MCS0	8.50	8.22
		40	5200		8.50	8.12
		44	5220		8.50	8.21
		48	5240		8.50	8.29
	802.11ac20-VHT0	36	5180	MCS0	8.50	8.24
		40	5200		8.50	8.17
		44	5220		8.50	8.30
		48	5240		8.50	8.20
	802.11n40-HT0	38	5190	MCS0	8.00	7.61
		46	5230		8.00	7.72
	802.11ac40-VHT0	38	5190	MCS0	8.00	7.74
		46	5230		8.00	7.64
802.11ac80-VHT0	42	5210	MCS0	7.50	7.20	
Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.25-5.35 GHz	802.11a	52	5260	6Mbps	8.00	7.87
		56	5280		8.00	7.91
		60	5300		8.00	7.92
		64	5320		8.00	7.79
	802.11n20-HT0	52	5260	MCS0	8.00	7.80
		56	5280		8.00	7.71
		60	5300		8.00	7.72
		64	5320		8.00	7.71
	802.11ac20-VHT0	52	5260	MCS0	8.00	7.79
		56	5280		8.00	7.66
		60	5300		8.00	7.66
		64	5320		8.00	7.76
	802.11n40-HT0	54	5270	MCS0	7.50	7.30
		62	5310		7.50	7.13
	802.11ac40-VHT0	54	5270	MCS0	7.50	7.24
		62	5310		7.50	7.16
802.11ac80-VHT0	58	5290	MCS0	7.00	6.80	

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Ant 4						
Band	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.6GHz	802.11a	100	5500	6Mbps	5.50	5.26
		120	5600		5.50	5.25
		140	5700		5.50	5.19
		144	5720		5.50	5.18
	802.11n20-HT0	100	5500	MCS0	5.50	5.14
		120	5600		5.50	5.16
		140	5700		5.50	5.29
		144	5720		5.50	5.20
	802.11ac20-VHT0	100	5500	MCS0	5.50	5.24
		120	5600		5.50	5.20
		140	5700		5.50	5.30
		144	5720		5.50	5.25
	802.11n40-HT0	102	5510	MCS0	5.50	5.12
		118	5590		5.50	5.18
		134	5670		5.50	5.33
		142	5710		5.50	5.25
	802.11ac40-VHT0	102	5510	MCS0	5.50	5.26
		118	5590		5.50	5.20
		134	5670		5.50	5.22
		142	5710		5.50	5.18
	802.11ac80-VHT0	106	5530	MCS0	5.00	4.71
		122	5610		5.00	4.66
		138	5690		5.00	4.77
	Ant 4					
Mode	Mode	Channel	Frequency (MHz)	Data Rate	Max. Rated Avg. Power + Max. Tolerance (dBm)	Average power (dBm)
5.8GHz	802.11a	149	5745	6Mbps	5.50	5.15
		157	5785		5.50	5.35
		165	5825		5.50	5.18
	802.11n20-HT0	149	5745	MCS0	5.50	5.37
		157	5785		5.50	5.29
		165	5825		5.50	5.37
	802.11ac20-VHT0	149	5745	MCS0	5.50	5.16
		157	5785		5.50	5.30
		165	5825		5.50	5.21
	802.11n40-HT0	151	5755	MCS0	5.50	5.06
		159	5795		5.50	5.39
	802.11ac40-VHT0	151	5755	MCS0	5.50	5.38
		159	5795		5.50	5.23
	802.11ac80-VHT0	155	5775	MCS0	5.00	4.93

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5.8 Bluetooth

sensor off

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			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)
BR/EDR	CH 00	2402	10.00	9.10	6.00	5.53	6.00	5.43
	CH 39	2441		9.04		5.41		5.44
	CH 78	2480		9.15		5.60		5.61

sensor on

Mode	Channel	Frequency (MHz)	1Mbps		2Mbps		3Mbps	
			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)
BR/EDR	CH 00	2402	6.00	5.22	6.00	5.21	6.00	5.13
	CH 39	2441		5.84		5.51		5.50
	CH 78	2480		5.78		5.26		5.21

5.9 BLE

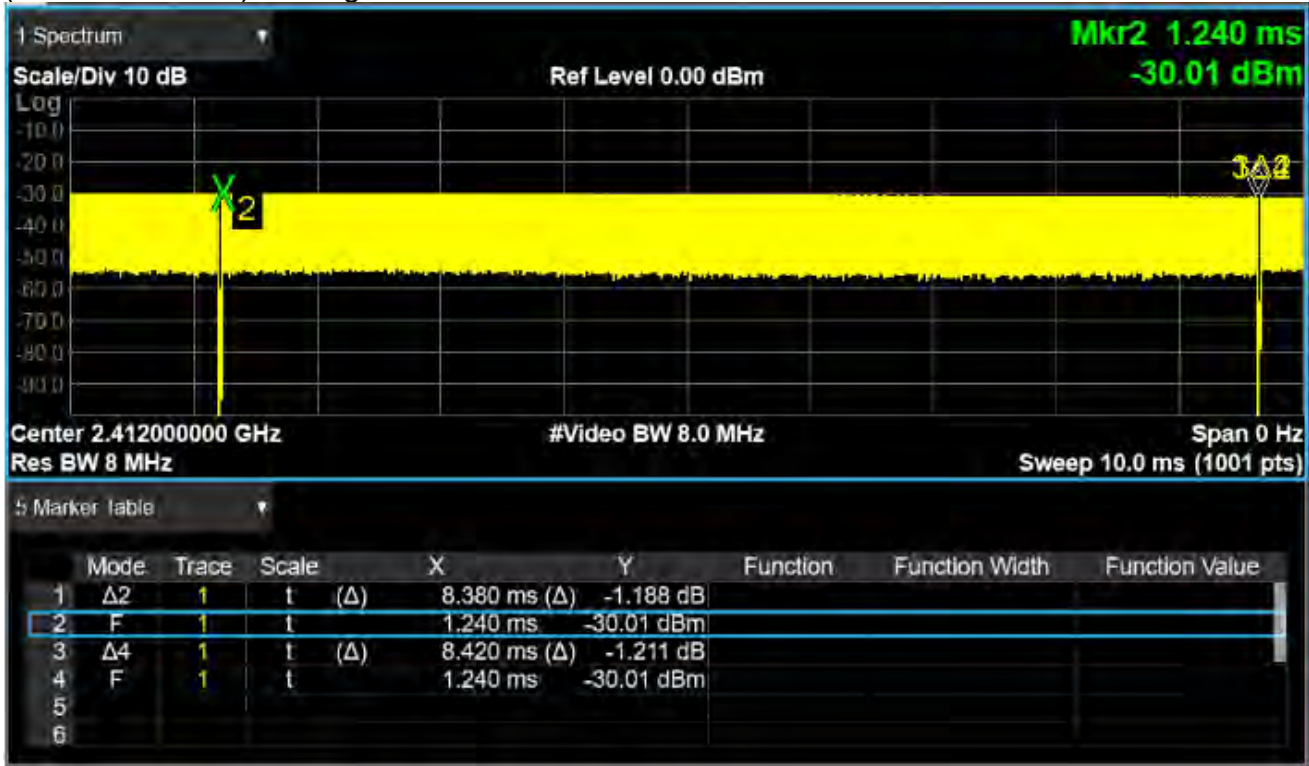
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_1M	CH 00	2402	-4	-4.55
	CH 19	2440		-4.73
	CH 39	2480		-4.58
Mode	Channel	Frequency (MHz)	GFSK	
			Max. Rated Avg. Power + Max. Tolerance (dBm)	Average Output Power (dBm)
BLE_2M	CH 00	2402	-4	-4.86
	CH 19	2440		-4.99
	CH 39	2480		-4.78

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2.4G b duty
 (8.38/8.42=0.995) Scaling Factor=1.005

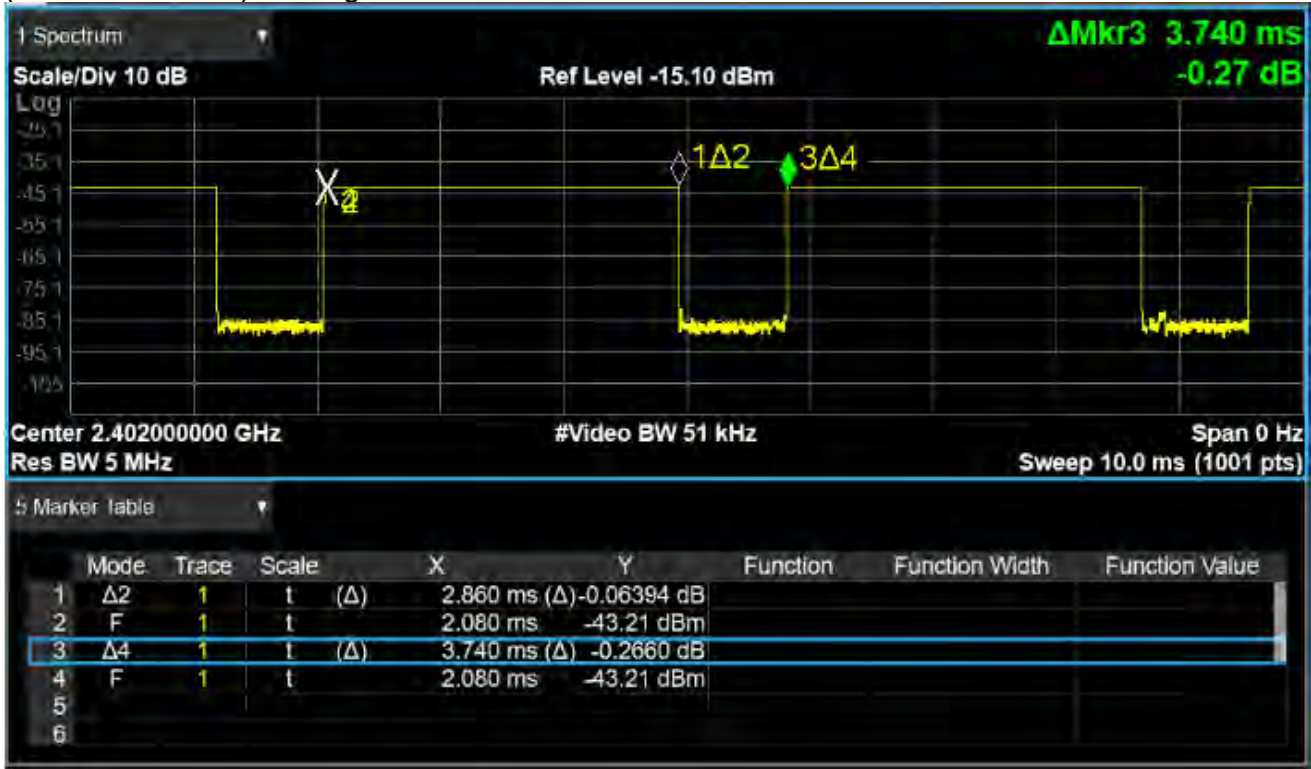


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BT duty
 $(2.86/3.74=0.765)$ Scaling Factor=1.307

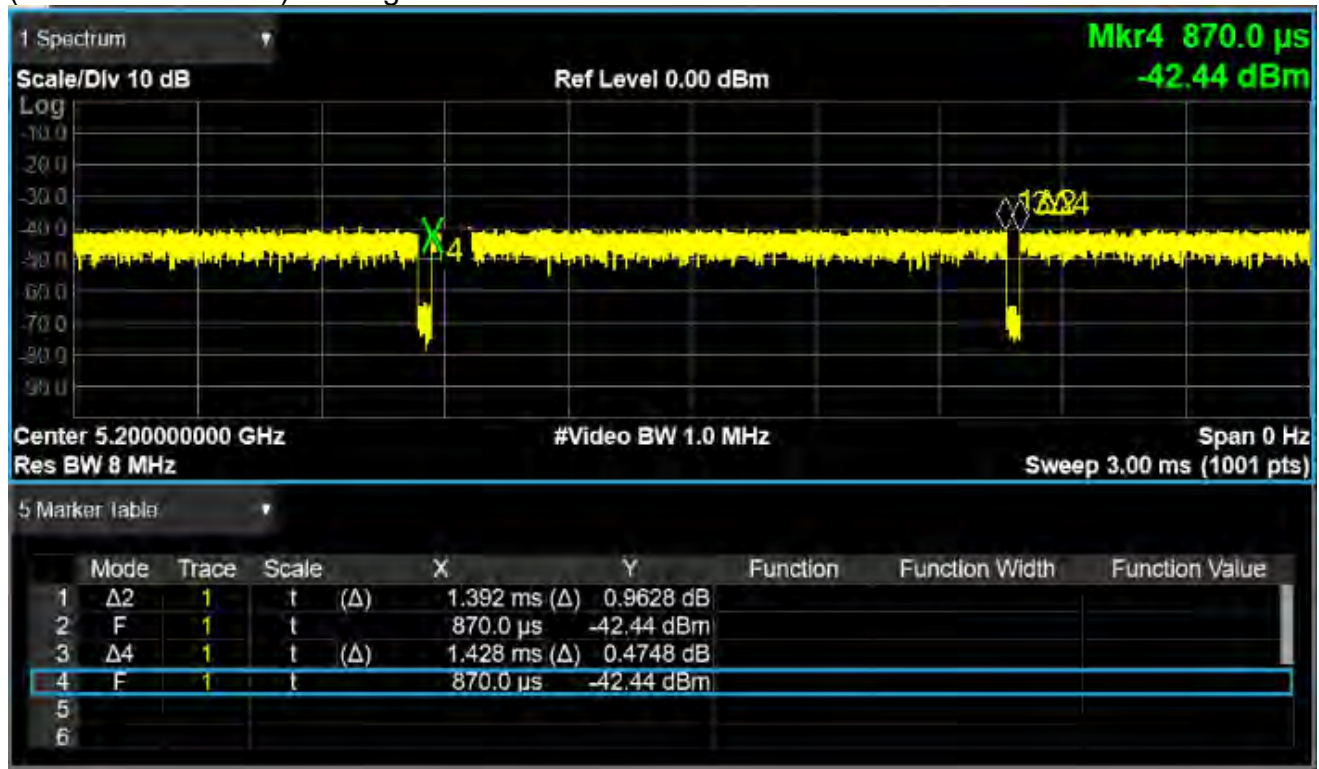


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5G a duty
 (1.392/1.428=0.975) Scaling Factor=1.026

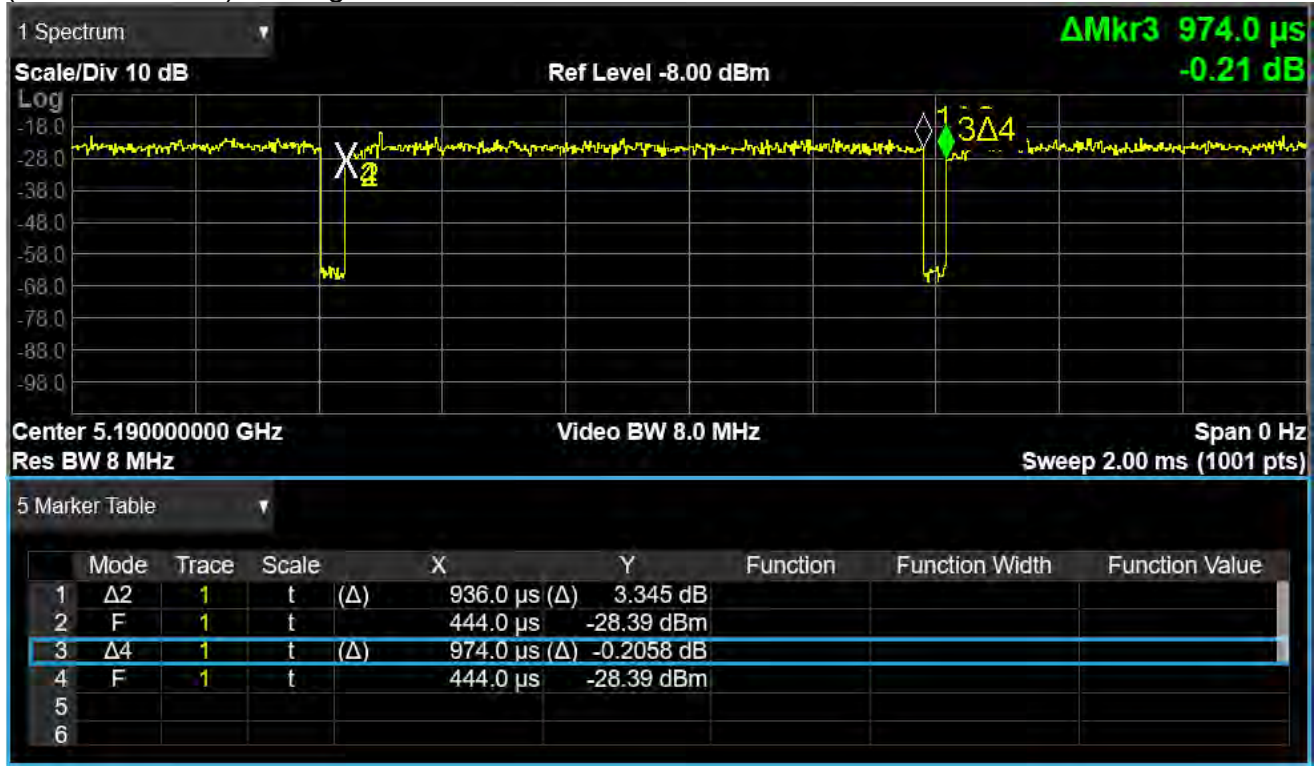


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5G n(40M) duty
 (936/974=0.961) Scaling Factor=1.041



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6 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

sensor off_Ant1

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GPRS850<1Dn4Up>	Back Surface	16	128	824.2	29.0	28.64	108.64%	0.266	0.289	-
GPRS850<1Dn4Up>	Back Surface	16	190	836.6	29.0	28.91	102.09%	0.305	0.311	001
GPRS850<1Dn4Up>	Back Surface	16	251	848.8	29.0	28.63	108.88%	0.270	0.294	-
GPRS850<1Dn4Up>	Top Edge	17	190	836.6	29.0	28.91	102.09%	0.101	0.103	-
GPRS850<1Dn4Up>	Bottom Edge	0	190	836.6	29.0	28.91	102.09%	0.027	0.028	-
GPRS850<1Dn4Up>	Left Edge	0	190	836.6	29.0	28.91	102.09%	0.133	0.136	-
GPRS850<1Dn4Up>	Right Edge	0	190	836.6	29.0	28.91	102.09%	0.040	0.041	-
2nd source spot-check	Back Surface	16	190	836.6	29.0	28.91	102.09%	0.293	0.299	-
GPRS1900<1Dn4Up>	Back Surface	16	512	1850.2	26.0	25.88	102.80%	0.444	0.456	-
GPRS1900<1Dn4Up>	Back Surface	16	661	1880	26.0	25.93	101.62%	0.490	0.498	002
GPRS1900<1Dn4Up>	Back Surface	16	810	1909.8	26.0	25.80	104.71%	0.439	0.460	-
GPRS1900<1Dn4Up>	Top Edge	17	661	1880	26.0	25.93	101.62%	0.345	0.351	-
GPRS1900<1Dn4Up>	Bottom Edge	0	661	1880	26.0	25.93	101.62%	0.019	0.020	-
GPRS1900<1Dn4Up>	Left Edge	0	661	1880	26.0	25.93	101.62%	0.114	0.116	-
GPRS1900<1Dn4Up>	Right Edge	0	661	1880	26.0	25.93	101.62%	0.030	0.030	-
2nd source spot-check	Back Surface	16	661	1880	26.0	25.93	101.62%	0.456	0.463	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back Surface	16	9262	1852.4	24.0	23.53	111.43%	0.723	0.806	-
WCDMA Band II	Back Surface	16	9400	1880	24.0	23.57	110.41%	0.805	0.889	003
WCDMA Band II	Back Surface	16	9538	1907.6	24.0	23.41	114.55%	0.772	0.884	-
WCDMA Band II	Top Edge	17	9400	1880	24.0	23.57	110.41%	0.487	0.538	-
WCDMA Band II	Bottom Edge	0	9400	1880	24.0	23.57	110.41%	0.011	0.012	-
WCDMA Band II	Left Edge	0	9400	1880	24.0	23.57	110.41%	0.055	0.061	-
WCDMA Band II	Right Edge	0	9400	1880	24.0	23.57	110.41%	0.017	0.019	-
2nd source spot-check	Back Surface	16	9400	1880	24.0	23.57	110.41%	0.788	0.870	-
WCDMA Band IV	Back Surface	16	1312	1712.4	24.0	23.61	109.40%	0.538	0.589	-
WCDMA Band IV	Back Surface	16	1412	1732.4	24.0	23.56	110.66%	0.519	0.574	-
WCDMA Band IV	Back Surface	16	1513	1752.6	24.0	23.62	109.14%	0.607	0.663	004
WCDMA Band IV	Top Edge	17	1513	1752.6	24.0	23.62	109.14%	0.372	0.406	-
WCDMA Band IV	Bottom Edge	0	1513	1752.6	24.0	23.62	109.14%	0.022	0.024	-
WCDMA Band IV	Left Edge	0	1513	1752.6	24.0	23.62	109.14%	0.073	0.080	-
WCDMA Band IV	Right Edge	0	1513	1752.6	24.0	23.62	109.14%	0.019	0.021	-
2nd source spot-check	Back Surface	16	1513	1752.6	24.0	23.62	109.14%	0.602	0.657	-
WCDMA Band V	Back Surface	16	4132	826.4	24.0	23.84	103.75%	0.361	0.375	-
WCDMA Band V	Back Surface	16	4183	836.6	24.0	23.91	102.09%	0.386	0.394	005
WCDMA Band V	Back Surface	16	4233	846.6	24.0	23.79	104.95%	0.370	0.388	-
WCDMA Band V	Top Edge	17	4183	836.6	24.0	23.91	102.09%	0.139	0.142	-
WCDMA Band V	Bottom Edge	0	4183	836.6	24.0	23.91	102.09%	0.021	0.021	-
WCDMA Band V	Left Edge	0	4183	836.6	24.0	23.91	102.09%	0.073	0.075	-
WCDMA Band V	Right Edge	0	4183	836.6	24.0	23.91	102.09%	0.014	0.014	-
2nd source spot-check	Back Surface	16	4183	836.6	24.0	23.91	102.09%	0.351	0.358	-

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Mode	Bandwidth (MHz)	Modulation	RB Size	RB offset	Position	Distance (mm)	Ch	Freq. (MHz)	Max Rated Avg Power + Max. Tolerance (dBm)	Measured Avg Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page	
												Measured	Reported		
LTE Band 2		20MHz	QPSK	1	0	Back Surface	16	18700	1880	24.00	23.98	100.00%	0.826	0.832	006
LTE Band 2	1			0	Back Surface	16	18900	1880	24.00	23.98	100.00%	0.756	0.762	-	
LTE Band 2	1			0	Back Surface	16	19100	1880	24.00	23.97	100.00%	0.739	0.744	-	
LTE Band 2	50			0	Back Surface	16	19300	1880	23.00	22.98	101.38%	0.652	0.661	-	
LTE Band 2	100RB			0	Back Surface	16	18800	1880	23.00	22.96	101.86%	0.655	0.667	-	
LTE Band 2	1			0	Top Edge	17	18700	1880	24.00	23.98	100.46%	0.497	0.499	-	
LTE Band 2	1			0	Top Edge	17	18900	1880	23.00	22.98	101.38%	0.313	0.317	-	
LTE Band 2	1			0	Bottom Edge	0	18700	1880	24.00	23.98	100.46%	0.513	0.513	-	
LTE Band 2	50			0	Bottom Edge	0	19100	1880	23.00	22.94	101.38%	0.011	0.011	-	
LTE Band 2	100RB			0	Bottom Edge	0	18800	1880	23.00	22.96	101.86%	0.008	0.009	-	
LTE Band 2	1	0	Left Edge	0	18700	1880	23.00	22.98	100.46%	0.051	0.051	-			
LTE Band 2	50	0	Left Edge	0	19100	1880	23.00	22.94	101.38%	0.036	0.037	-			
LTE Band 2	100RB	0	Left Edge	0	18900	1880	23.00	22.92	101.86%	0.036	0.036	-			
LTE Band 2	1	0	Right Edge	0	18700	1880	24.00	23.98	100.46%	0.018	0.018	-			
LTE Band 2	50	0	Right Edge	0	19100	1880	23.00	22.94	101.38%	0.014	0.014	-			
LTE Band 2	100RB	0	Right Edge	0	18900	1880	23.00	22.92	101.86%	0.011	0.011	-			
2nd source (repeated)		20MHz	QPSK	1	0	Back Surface	16	18700	1880	24.00	23.98	100.46%	0.763	0.767	-
LTE Band 4		20MHz	QPSK	1	0	Back Surface	16	20500	1720	24.00	23.97	100.00%	0.508	0.512	007
LTE Band 4	1			0	Back Surface	16	20175	1720	24.00	23.89	102.51%	0.477	0.489	-	
LTE Band 4	1			0	Back Surface	16	20300	1740	24.00	23.91	102.00%	0.491	0.491	-	
LTE Band 4	50			0	Back Surface	16	20500	1720	23.00	22.91	102.90%	0.415	0.424	-	
LTE Band 4	100RB			0	Back Surface	16	20050	1720	23.00	22.90	102.35%	0.432	0.442	-	
LTE Band 4	1			0	Top Edge	17	20500	1720	24.00	23.97	100.00%	0.380	0.383	-	
LTE Band 4	50			50	Top Edge	17	20500	1720	23.00	22.91	102.00%	0.309	0.315	-	
LTE Band 4	100RB			0	Top Edge	17	20050	1720	23.00	22.96	102.35%	0.316	0.322	-	
LTE Band 4	1			0	Bottom Edge	0	20500	1720	24.00	23.99	100.00%	0.242	0.247	-	
LTE Band 4	50			50	Bottom Edge	0	20050	1720	23.00	22.91	102.90%	0.018	0.018	-	
LTE Band 4	100RB	0	Bottom Edge	0	20500	1720	23.00	22.92	102.35%	0.017	0.017	-			
LTE Band 4	1	0	Left Edge	0	20050	1720	24.00	23.97	100.00%	0.071	0.071	-			
LTE Band 4	50	50	Left Edge	0	20500	1720	23.00	22.92	102.90%	0.051	0.052	-			
LTE Band 4	100RB	0	Left Edge	0	20050	1720	23.00	22.95	102.35%	0.051	0.052	-			
LTE Band 4	1	0	Right Edge	0	20050	1720	24.00	23.97	100.00%	0.021	0.021	-			
LTE Band 4	50	50	Right Edge	0	20500	1720	23.00	22.92	102.90%	0.017	0.017	-			
LTE Band 4	100RB	0	Right Edge	0	20050	1720	23.00	22.90	102.35%	0.017	0.017	-			
2nd source (repeated)		20MHz	QPSK	1	0	Back Surface	16	20500	1720	24.00	23.91	102.90%	0.495	0.495	-
LTE Band 5		10MHz	QPSK	1	0	Back Surface	16	20450	820	24.00	23.88	102.51%	0.197	0.202	008
LTE Band 5	1			0	Back Surface	16	20225	820	24.00	23.87	103.04%	0.242	0.247	-	
LTE Band 5	1			0	Back Surface	16	20350	844	24.00	23.87	103.04%	0.222	0.229	-	
LTE Band 5	25			0	Back Surface	16	20500	844	23.00	23.81	103.31%	0.175	0.178	-	
LTE Band 5	50RB			0	Back Surface	16	20000	844	23.00	22.83	103.99%	0.162	0.168	-	
LTE Band 5	25			0	Top Edge	17	20500	844	24.00	23.91	100.00%	0.136	0.137	-	
LTE Band 5	50			0	Top Edge	17	20000	844	23.00	22.83	103.99%	0.081	0.084	-	
LTE Band 5	25			0	Bottom Edge	0	20500	844	24.00	23.97	100.00%	0.380	0.383	-	
LTE Band 5	50RB			0	Bottom Edge	0	20000	844	23.00	22.90	102.34%	0.020	0.020	-	
LTE Band 5	25			0	Left Edge	0	20000	844	24.00	23.97	100.00%	0.075	0.075	-	
LTE Band 5	50	0	Left Edge	0	20500	844	23.00	22.91	102.90%	0.059	0.060	-			
LTE Band 5	25	0	Left Edge	0	20000	844	23.00	22.92	102.34%	0.067	0.069	-			
LTE Band 5	50RB	0	Left Edge	0	20500	844	23.00	22.83	103.99%	0.061	0.063	-			
LTE Band 5	25	0	Right Edge	0	20521	836	24.00	23.91	102.00%	0.014	0.014	-			
LTE Band 5	50RB	0	Right Edge	0	20000	844	23.00	22.83	103.99%	0.014	0.014	-			
LTE Band 5	25	0	Right Edge	0	20000	844	23.00	22.83	103.99%	0.010	0.010	-			
2nd source (repeated)		10MHz	QPSK	1	0	Back Surface	16	20521	836	24.00	23.91	102.00%	0.222	0.227	-
LTE Band 12		10MHz	QPSK	1	0	Back Surface	16	23300	704	24.00	23.12	122.46%	0.230	0.264	009
LTE Band 12	1			0	Back Surface	16	23220	704	24.00	23.11	122.46%	0.205	0.244	-	
LTE Band 12	1			25	Back Surface	16	23130	711	24.00	23.09	123.11%	0.220	0.271	-	
LTE Band 12	25			25	Back Surface	16	23130	711	23.00	22.74	121.96%	0.140	0.174	-	
LTE Band 12	50RB			0	Back Surface	16	23300	704	23.00	22.96	123.11%	0.167	0.199	-	
LTE Band 12	1			0	Top Edge	17	23300	704	24.00	23.12	122.46%	0.097	0.119	-	
LTE Band 12	25			0	Top Edge	17	23130	711	24.00	23.09	123.11%	0.085	0.093	-	
LTE Band 12	50RB			0	Top Edge	17	23300	704	23.00	22.98	123.99%	0.077	0.095	-	
LTE Band 12	1			0	Bottom Edge	0	23300	704	24.00	23.12	122.46%	0.020	0.020	-	
LTE Band 12	25			0	Bottom Edge	0	23130	711	23.00	22.74	121.96%	0.015	0.019	-	
LTE Band 12	50RB	0	Bottom Edge	0	23300	704	24.00	23.12	122.46%	0.062	0.075	-			
LTE Band 12	1	0	Left Edge	0	23300	704	24.00	23.12	122.46%	0.049	0.060	-			
LTE Band 12	25	0	Left Edge	0	23130	711	23.00	22.74	121.96%	0.044	0.050	-			
LTE Band 12	50RB	0	Left Edge	0	23300	704	23.00	22.74	123.99%	0.012	0.015	-			
LTE Band 12	1	0	Right Edge	0	23130	711	23.00	22.74	121.96%	0.007	0.009	-			
LTE Band 12	25	0	Right Edge	0	23300	704	23.00	22.90	123.99%	0.007	0.009	-			
LTE Band 12	50RB	0	Right Edge	0	23300	704	23.00	22.92	122.46%	0.190	0.244	-			
2nd source (repeated)		10MHz	QPSK	1	0	Back Surface	16	23300	704	24.00	23.12	122.46%	0.227	0.266	-
LTE Band 13		10MHz	QPSK	1	0	Back Surface	16	23220	782	24.00	23.31	117.22%	0.280	0.305	010
LTE Band 13	25			12	Back Surface	16	23220	782	23.00	22.25	118.82%	0.198	0.227	-	
LTE Band 13	1			0	Back Surface	16	23220	782	23.00	22.94	101.38%	0.269	0.282	-	
LTE Band 13	1			0	Top Edge	17	23220	782	24.00	23.31	117.22%	0.107	0.125	-	
LTE Band 13	25			25	Top Edge	17	23220	782	23.00	22.86	118.48%	0.085	0.092	-	
LTE Band 13	50RB			0	Top Edge	17	23220	782	23.00	22.24	119.14%	0.085	0.101	-	
LTE Band 13	1			0	Bottom Edge	0	23220	782	24.00	23.31	117.22%	0.020	0.024	-	
LTE Band 13	25			0	Bottom Edge	0	23050	782	23.00	22.91	121.96%	0.019	0.023	-	
LTE Band 13	50RB			0	Bottom Edge	0	23220	782	23.00	22.24	119.14%	0.018	0.021	-	
LTE Band 13	1			0	Left Edge	0	23220	782	24.00	23.31	117.22%	0.070	0.082	-	
LTE Band 13	25	25	Left Edge	0	23220	782	23.00	22.25	118.82%	0.053	0.063	-			
LTE Band 13	50RB	0	Left Edge	0	23050	782	23.00	22.91	121.96%	0.044	0.050	-			
LTE Band 13	1	0	Right Edge	0	23220	782	24.00	23.31	117.22%	0.014	0.016	-			
LTE Band 13	25	25	Right Edge	0	23220	782	23.00	22.25	118.82%	0.008	0.010	-			
LTE Band 13	50RB	0	Right Edge	0	23050	782	23.00	22.90	123.99%	0.007	0.009	-			
LTE Band 13	1	0	Back Surface	16	23220	782	24.00	23.31	117.22%	0.227	0.266	-			
2nd source (repeated)		10MHz	QPSK	1	0	Back Surface	16	23220	782	24.00	23.31	117.22%	0.227	0.266	-
LTE Band 25		20MHz	QPSK	1	0	Back Surface	16	26140	1880	24.00	23.11	122.74%	0.599	0.686	-
LTE Band 25	1			0	Back Surface	16	26305	1880	24.00	23.15	121.62%	0.593	0.721	011	
LTE Band 25	1			0	Back Surface	16	26500	1900	24.00	23.19	120.31%</				

sensor off_Ant2

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page				
												Measured	Reported					
LTE Band 7	20MHz	QPSK	1	0	Back Surface	12	20850	2510	24.00	23.77	105.44%	0.726	0.765	014				
LTE Band 7			1	0	Back Surface	12	21100	2535	24.00	23.64	108.64%	0.699	0.759	-				
LTE Band 7			1	0	Back Surface	12	21350	2560	24.00	23.58	110.15%	0.687	0.757	-				
LTE Band 7			50	50	Back Surface	12	20850	2510	23.00	22.50	112.20%	0.616	0.691	-				
LTE Band 7			100RB	0	Back Surface	12	20850	2510	23.00	22.49	112.46%	0.603	0.678	-				
LTE Band 7			1	0	Top Edge	13	20850	2510	24.00	23.77	105.44%	0.319	0.336	-				
LTE Band 7			50	50	Top Edge	13	20850	2510	23.00	22.50	112.20%	0.277	0.311	-				
LTE Band 7			100RB	0	Top Edge	13	20850	2510	23.00	22.49	112.46%	0.260	0.315	-				
LTE Band 7			1	0	Bottom Edge	0	20850	2510	24.00	23.77	105.44%	0.022	0.023	-				
LTE Band 7			50	50	Bottom Edge	0	20850	2510	23.00	22.50	112.20%	0.018	0.020	-				
LTE Band 7			100RB	0	Bottom Edge	0	20850	2510	23.00	22.49	112.46%	0.017	0.019	-				
LTE Band 7			1	0	Left Edge	0	20850	2510	24.00	23.77	105.44%	0.068	0.093	-				
LTE Band 7			50	50	Left Edge	0	20850	2510	23.00	22.50	112.20%	0.072	0.081	-				
LTE Band 7			100RB	0	Left Edge	0	20850	2510	23.00	22.49	112.46%	0.070	0.079	-				
LTE Band 7			1	0	Right Edge	0	20850	2510	24.00	23.77	105.44%	0.035	0.037	-				
LTE Band 7			50	50	Right Edge	0	20850	2510	23.00	22.50	112.20%	0.028	0.031	-				
LTE Band 7			100RB	0	Right Edge	0	20850	2510	23.00	22.49	112.46%	0.025	0.028	-				
2nd source spot-check			1	0	Back Surface	12	20850	2510	24.00	23.77	105.44%	0.701	0.739	-				
LTE Band 38			20MHz	QPSK	1	0	Back Surface	12	37850	2580	24.00	23.66	108.14%	0.400	0.433	015		
LTE Band 38					1	0	Back Surface	12	38000	2595	24.00	23.60	109.65%	0.389	0.425	-		
LTE Band 38					1	0	Back Surface	12	38150	2610	24.00	23.56	110.86%	0.382	0.401	-		
LTE Band 38					50	25	Back Surface	12	37850	2580	23.00	22.50	112.20%	0.337	0.378	-		
LTE Band 38					100RB	0	Back Surface	12	38000	2595	23.00	22.54	111.17%	0.325	0.361	-		
LTE Band 38					1	0	Top Edge	13	37850	2580	24.00	23.66	108.14%	0.112	0.118	-		
LTE Band 38					50	25	Top Edge	13	37850	2580	23.00	22.50	112.20%	0.144	0.162	-		
LTE Band 38					100RB	0	Top Edge	13	38000	2595	23.00	22.54	111.17%	0.142	0.158	-		
LTE Band 38					1	0	Bottom Edge	0	37850	2580	24.00	23.66	108.14%	0.004	0.004	-		
LTE Band 38					50	25	Bottom Edge	0	37850	2580	23.00	22.50	112.20%	0.002	0.002	-		
LTE Band 38					100RB	0	Bottom Edge	0	38000	2595	23.00	22.54	111.17%	0.003	0.004	-		
LTE Band 38					1	0	Left Edge	0	37850	2580	24.00	23.66	108.14%	0.068	0.074	-		
LTE Band 38					50	25	Left Edge	0	37850	2580	23.00	22.50	112.20%	0.068	0.068	-		
LTE Band 38					100RB	0	Left Edge	0	38000	2595	23.00	22.54	111.17%	0.065	0.061	-		
LTE Band 38					1	0	Right Edge	0	37850	2580	24.00	23.66	108.14%	0.045	0.049	-		
LTE Band 38					50	25	Right Edge	0	37850	2580	23.00	22.50	112.20%	0.037	0.042	-		
LTE Band 38					100RB	0	Right Edge	0	38000	2595	23.00	22.54	111.17%	0.038	0.042	-		
2nd source spot-check					1	0	Back Surface	12	37850	2580	24.00	23.66	108.14%	0.382	0.413	-		
LTE Band 41					20MHz	QPSK	1	0	Back Surface	12	39750	2506	24.00	23.79	104.95%	0.398	0.418	-
LTE Band 41							1	50	Back Surface	12	40185	2549.5	24.00	23.83	103.99%	0.445	0.463	-
LTE Band 41							1	0	Back Surface	12	40620	2593	24.00	23.87	103.04%	0.474	0.488	016
LTE Band 41							1	0	Back Surface	12	41055	2636.5	24.00	23.85	103.51%	0.461	0.477	-
LTE Band 41	1	0					Back Surface	12	41490	2680	24.00	23.81	104.47%	0.438	0.458	-		
LTE Band 41	50	25					Back Surface	12	40185	2549.5	23.00	22.85	103.51%	0.369	0.372	-		
LTE Band 41	100RB	0					Back Surface	12	40185	2549.5	23.00	22.79	104.95%	0.377	0.396	-		
LTE Band 41	1	0					Top Edge	13	40620	2593	24.00	23.87	103.04%	0.202	0.208	-		
LTE Band 41	50	25					Top Edge	13	40185	2549.5	23.00	22.85	103.51%	0.169	0.175	-		
LTE Band 41	100RB	0					Top Edge	13	40185	2549.5	23.00	22.79	104.95%	0.164	0.172	-		
LTE Band 41	1	0					Bottom Edge	0	40620	2593	24.00	23.87	103.04%	0.007	0.008	-		
LTE Band 41	50	25					Bottom Edge	0	40185	2549.5	23.00	22.85	103.51%	0.004	0.005	-		
LTE Band 41	100RB	0					Bottom Edge	0	40185	2549.5	23.00	22.79	104.95%	0.005	0.005	-		
LTE Band 41	1	0					Left Edge	0	40620	2593	24.00	23.87	103.04%	0.072	0.074	-		
LTE Band 41	50	25					Left Edge	0	40185	2549.5	23.00	22.85	103.51%	0.061	0.063	-		
LTE Band 41	100RB	0					Left Edge	0	40185	2549.5	23.00	22.79	104.95%	0.060	0.063	-		
LTE Band 41	1	0					Right Edge	0	40620	2593	24.00	23.87	103.04%	0.061	0.063	-		
LTE Band 41	50	25					Right Edge	0	40185	2549.5	23.00	22.85	103.51%	0.048	0.050	-		
LTE Band 41	100RB	0					Right Edge	0	40185	2549.5	23.00	22.79	104.95%	0.044	0.046	-		
2nd source spot-check	1	0					Back Surface	12	40620	2593	24.00	23.87	103.04%	0.455	0.469	-		

sensor on_Ant1

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
GPRS850<1Dn4Up>	Back Surface	0	128	824.2	23.0	21.75	133.35%	0.572	0.763	-
GPRS850<1Dn4Up>	Back Surface	0	190	836.6	23.0	21.83	130.92%	0.590	0.772	017
GPRS850<1Dn4Up>	Back Surface	0	251	848.8	23.0	21.81	131.52%	0.566	0.744	-
GPRS850<1Dn4Up>	Top Edge	0	190	836.6	23.0	21.83	130.92%	0.224	0.293	-
2nd source spot-check	Back Surface	0	190	836.6	23.0	21.83	130.92%	0.553	0.724	-
GPRS1900<1Dn4Up>	Back Surface	0	512	1850.2	16.5	16.22	106.66%	0.609	0.650	018
GPRS1900<1Dn4Up>	Back Surface	0	661	1880	16.5	16.17	107.63%	0.535	0.631	-
GPRS1900<1Dn4Up>	Back Surface	0	810	1909.8	16.5	16.20	107.15%	0.601	0.644	-
GPRS1900<1Dn4Up>	Top Edge	0	512	1850.2	16.5	16.22	106.66%	0.564	0.602	-
2nd source spot-check	Back Surface	0	512	1850.2	16.5	16.22	106.66%	0.571	0.609	-

Band	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
								Measured	Reported	
WCDMA Band II	Back Surface	0	9262	1852.4	13.0	12.94	101.39%	0.654	0.663	019
WCDMA Band II	Back Surface	0	9400	1880	13.0	12.84	103.75%	0.619	0.642	-
WCDMA Band II	Back Surface	0	9538	1907.6	13.0	12.85	103.51%	0.582	0.602	-
WCDMA Band II	Top Edge	0	9262	1852.4	13.0	12.94	101.39%	0.627	0.636	-
2nd source spot-check	Back Surface	0	9262	1852.4	13.0	12.94	101.39%	0.598	0.606	-
WCDMA Band IV	Back Surface	0	1312	1712.4	10.5	10.03	111.43%	0.341	0.380	-
WCDMA Band IV	Back Surface	0	1412	1732.4	10.5	10.07	110.41%	0.332	0.367	-
WCDMA Band IV	Back Surface	0	1513	1752.6	10.5	10.08	110.15%	0.362	0.399	020
WCDMA Band IV	Top Edge	0	1513	1752.6	10.5	10.08	110.15%	0.322	0.355	-
2nd source spot-check	Back Surface	0	1513	1752.6	10.5	10.08	110.15%	0.336	0.370	-
WCDMA Band V	Back Surface	0	4132	826.4	18.5	18.01	111.94%	0.530	0.593	-
WCDMA Band V	Back Surface	0	4183	838.6	18.5	18.02	111.69%	0.512	0.572	-
WCDMA Band V	Back Surface	0	4233	846.6	18.5	18.07	110.41%	0.547	0.604	021
WCDMA Band V	Top Edge	0	4233	846.6	18.5	18.07	110.41%	0.259	0.286	-
2nd source spot-check	Back Surface	0	4233	846.6	18.5	18.07	110.41%	0.517	0.571	-

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1	0	Back Surface	0	18700	1860	13.50	12.46	127.06%	0.547	0.695	-
LTE Band 2			1	0	Back Surface	0	18900	1880	13.50	12.66	121.34%	0.587	0.712	022
LTE Band 2			1	0	Back Surface	0	19100	1900	13.50	12.84	121.34%	0.581	0.684	-
LTE Band 2			50	0	Back Surface	0	18900	1860	13.50	12.54	124.74%	0.512	0.662	-
LTE Band 2			100RB	0	Back Surface	0	18700	1860	13.50	12.51	125.60%	0.552	0.693	-
LTE Band 2			1	0	Top Edge	0	18900	1880	13.50	12.66	121.34%	0.553	0.671	-
LTE Band 2			1	0	Top Edge	0	18900	1860	13.50	12.54	124.74%	0.512	0.639	-
LTE Band 2			50	0	Top Edge	0	18700	1860	13.50	12.51	126.60%	0.526	0.664	-
LTE Band 2			100RB	0	Top Edge	0	18900	1880	13.50	12.66	121.34%	0.557	0.676	-
2nd source spot-check			1	0	Back Surface	0	18900	1880	13.50	12.66	121.34%	0.557	0.676	-
LTE Band 4	20MHz	QPSK	1	0	Back Surface	0	20050	1720	14.00	13.92	101.86%	1.080	1.100	023
LTE Band 4			1	0	Back Surface	0	20175	1732.5	14.00	13.89	102.57%	0.936	0.960	-
LTE Band 4			1	0	Back Surface	0	20300	1745	14.00	13.79	104.95%	1.020	1.071	-
LTE Band 4			50	25	Back Surface	0	20050	1720	14.00	13.78	105.20%	0.968	1.039	-
LTE Band 4			50	0	Back Surface	0	20175	1732.5	14.00	13.77	105.44%	0.952	1.004	-
LTE Band 4			50	0	Back Surface	0	20300	1745	14.00	13.74	106.17%	0.929	0.986	-
LTE Band 4			100RB	0	Back Surface	0	20050	1720	14.00	13.63	108.89%	0.972	1.058	-
LTE Band 4			1	0	Top Edge	0	20050	1720	14.00	13.92	101.86%	0.936	0.963	-
LTE Band 4			1	0	Top Edge	0	20175	1732.5	14.00	13.89	102.57%	0.921	0.945	-
LTE Band 4			1	0	Top Edge	0	20300	1745	14.00	13.79	104.95%	0.899	0.944	-
LTE Band 4	50	25	Top Edge	0	20050	1720	14.00	13.78	105.20%	0.887	0.933	-		
LTE Band 4	50	0	Top Edge	0	20175	1732.5	14.00	13.77	105.44%	0.879	0.927	-		
LTE Band 4	50	0	Top Edge	0	20300	1745	14.00	13.74	106.17%	0.878	0.932	-		
LTE Band 4	100RB	0	Top Edge	0	20050	1720	14.00	13.63	108.89%	0.869	0.940	-		
2nd source spot-check	1	0	Back Surface	0	20050	1720	14.00	13.92	101.86%	0.972	0.990	-		
repeated	20MHz	QPSK	1	0	Back Surface	0	20050	1720	14.00	13.92	101.86%	1.050	1.070	-
LTE Band 5	10MHz	QPSK	1	0	Back Surface	0	20450	829	20.00	19.44	113.76%	0.771	0.877	024
LTE Band 5			1	0	Back Surface	0	20525	836.5	20.00	19.39	115.08%	0.728	0.838	-
LTE Band 5			1	0	Back Surface	0	20600	844	20.00	19.38	116.39%	0.717	0.827	-
LTE Band 5			25	12	Back Surface	0	20600	844	20.00	19.35	116.14%	0.634	0.738	-
LTE Band 5			50RB	0	Back Surface	0	20525	836.5	20.00	19.28	118.03%	0.687	0.787	-
LTE Band 5			1	0	Top Edge	0	20450	829	20.00	19.44	113.76%	0.771	0.877	-
LTE Band 5			25	12	Top Edge	0	20600	844	20.00	19.35	116.14%	0.626	0.729	-
LTE Band 5			50RB	0	Top Edge	0	20525	836.5	20.00	19.28	118.03%	0.687	0.787	-
LTE Band 5			100RB	0	Top Edge	0	20450	829	20.00	19.44	113.76%	0.771	0.877	-
2nd source spot-check			1	0	Back Surface	0	20450	829	20.00	19.44	113.76%	0.771	0.877	-
LTE Band 12	10MHz	QPSK	1	0	Back Surface	0	23060	704	21.50	21.44	101.39%	1.170	1.186	025
LTE Band 12			1	0	Back Surface	0	23095	707.5	21.50	21.33	103.99%	1.100	1.144	-
LTE Band 12			1	0	Back Surface	0	23130	711	21.50	21.34	103.75%	1.020	1.058	-
LTE Band 12			25	12	Back Surface	0	23060	704	21.50	21.22	106.66%	0.974	1.039	-
LTE Band 12			25	25	Back Surface	0	23095	707.5	21.50	21.23	108.41%	1.010	1.075	-
LTE Band 12			25	12	Back Surface	0	23130	711	21.50	21.30	104.71%	1.020	1.068	-
LTE Band 12			50RB	0	Back Surface	0	23060	704	21.50	21.27	105.44%	0.984	1.038	-
LTE Band 12			1	0	Top Edge	0	23060	704	21.50	21.44	101.39%	0.723	0.793	-
LTE Band 12			25	12	Top Edge	0	23130	711	21.50	21.30	104.71%	0.715	0.749	-
LTE Band 12			50RB	0	Top Edge	0	23060	704	21.50	21.27	105.44%	0.720	0.738	-
2nd source spot-check	1	0	Back Surface	0	23060	704	21.50	21.44	101.39%	1.120	1.136	-		
repeated	10MHz	QPSK	1	0	Back Surface	0	23060	704	21.50	21.44	101.39%	1.130	1.146	-
LTE Band 13	10MHz	QPSK	1	0	Back Surface	0	23230	782	21.50	21.50	100.00%	1.120	1.120	026
LTE Band 13			25	0	Back Surface	0	23230	782	21.50	21.43	101.62%	1.070	1.087	-
LTE Band 13			50RB	0	Back Surface	0	23230	782	21.50	21.27	105.44%	1.050	1.107	-
LTE Band 13			1	0	Top Edge	0	23230	782	21.50	21.50	100.00%	0.881	0.861	-
LTE Band 13			25	0	Top Edge	0	23230	782	21.50	21.43	101.62%	0.842	0.866	-
LTE Band 13			50RB	0	Top Edge	0	23230	782	21.50	21.27	105.44%	0.811	0.855	-
2nd source spot-check	1	0	Back Surface	0	23230	782	21.50	21.50	100.00%	1.100	1.100	-		
LTE Band 25	20MHz	QPSK	1	0	Back Surface	0	26140	1860	14.00	13.11	122.74%	0.622	0.763	-
LTE Band 25			1	0	Back Surface	0	26365	1882.5	14.00	13.15	121.62%	0.645	0.784	027
LTE Band 25			1	0	Back Surface	0	26590	1905	14.00	13.12	122.46%	0.617	0.756	-
LTE Band 25			50	0	Back Surface	0	26140	1860	14.00	13.06	124.17%	0.527	0.779	-
LTE Band 25			100RB	0	Back Surface	0	26590	1905	14.00	13.06	124.17%	0.603	0.749	-
LTE Band 25			1	0	Top Edge	0	26365	1882.5	14.00	13.15	121.62%	0.620	0.754	-
LTE Band 25			50	0	Top Edge	0	26590	1905	14.00	13.06	124.17%	0.600	0.745	-
LTE Band 25			100RB	0	Top Edge	0	26140	1860	14.00	13.06	124.17%	0.553	0.736	-
2nd source spot-check			1	0	Back Surface	0	26365	1882.5	14.00	13.15	121.62%	0.599	0.728	-
repeated			20MHz	QPSK	1	0	Back Surface	0	26365	1882.5	14.00	13.15	121.62%	0.640
LTE Band 26 FCC	15MHz	QPSK	1	0	Back Surface	0	28965	831.5	19.00	18.21	119.95%	0.663	0.795	028
LTE Band 26 FCC			1	0	Back Surface	0	28965	831.5	19.00	18.15	121.82%	0.638	0.778	-
LTE Band 26 FCC			36	0	Back Surface	0	28965	831.5	19.00	18.05	124.45%	0.625	0.779	-
LTE Band 26 FCC			75RB	0	Back Surface	0	28965	831.5	19.00	18.06	124.17%	0.617	0.766	-
LTE Band 26 FCC			1	0	Top Edge	0	28965	831.5	19.00	18.21	119.95%	0.627	0.744	-
LTE Band 26 FCC			36	0	Top Edge	0	28965	831.5	19.00	18.05	124.45%	0.275	0.342	-
LTE Band 26 FCC			75RB	0	Top Edge	0	28965	831.5	19.00	18.06	124.17%	0.256	0.318	-
LTE Band 26 FCC			100RB	0	Top Edge	0	28965	831.5	19.00	18.21	119.95%	0.649	0.738	-
2nd source spot-check			1	0	Back Surface	0	28965	831.5	19.00	18.21	119.95%	0.649	0.738	-
repeated			15MHz	QPSK	1	0	Back Surface	0	28965	831.5	19.00	18.21	119.95%	0.649
LTE Band 66	20MHz	QPSK	1	0	Back Surface	0	132072	1720	12.50	12.41	102.09%	0.811	0.828	-
LTE Band 66			1	0	Back Surface	0	132322	1745	12.50	12.49	100.23%	0.834	0.836	029
LTE Band 66			1	0	Back Surface	0	132572	1770	12.50	12.45	101.16%	0.808	0.817	-
LTE Band 66			50	0	Back Surface	0	132072	1745	12.50	12.36	103.28%	0.784	0.789	-
LTE Band 66			100RB	0	Back Surface	0	132072	1720	12.50	12.32	104.23%	0.789	0.822	-
LTE Band 66			1	0	Top Edge	0	132072	1720	12.50	12.41	102.09%	0.778	0.794	-
LTE Band 66			1	0	Top Edge	0	132322	1745	12.50	12.49	100.23%	0.817	0.819	-
LTE Band 66			1	0	Top Edge	0	132572	1770	12.50	12.45	101.16%	0.802	0.811	-
LTE Band 66			50	0	Top Edge	0	132322	1745	12.50	12.36	103.28%	0.771	0.796	-
LTE Band 66			100RB	0	Top Edge	0	132072	1720	12.50	12.32	104.23%	0.765	0.797	-
2nd source spot-check	1	0	Back Surface	0	132322	1745	12.50	12.49	100.23%	0.774	0.776	-		

* - repeated at the highest SAR measurement according to the KDB 865664 D01

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sensor on_Ant2

Mode	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		Plot page		
												Measured	Reported			
LTE Band 7	20MHz	QPSK	1	0	Back Surface	0	20850	2510	14.50	13.75	118.85%	0.549	0.652	030		
LTE Band 7			1	0	Back Surface	0	21100	2535	14.50	13.66	121.94%	0.519	0.630	-		
LTE Band 7			1	0	Back Surface	0	21350	2560	14.50	13.63	122.18%	0.522	0.638	-		
LTE Band 7			50	25	Back Surface	0	21100	2535	14.50	13.59	123.31%	0.512	0.631	-		
LTE Band 7			100RB	0	Back Surface	0	21350	2560	14.50	13.54	124.74%	0.520	0.649	-		
LTE Band 7			1	0	Top Edge	0	20850	2510	14.50	13.75	118.85%	0.532	0.632	-		
LTE Band 7			50	25	Top Edge	0	21100	2535	14.50	13.59	123.31%	0.502	0.619	-		
LTE Band 7			100RB	0	Top Edge	0	21350	2560	14.50	13.54	124.74%	0.511	0.637	-		
LTE Band 7			1	0	Back Surface	0	20850	2510	14.50	13.75	118.85%	0.512	0.609	-		
2nd source spot-check																
LTE Band 38			20MHz	QPSK	1	0	Back Surface	0	37850	2580	17.50	17.11	108.40%	0.518	0.587	-
LTE Band 38					1	0	Back Surface	0	38000	2595	17.50	17.15	108.39%	0.522	0.586	-
LTE Band 38	1	0			Back Surface	0	38150	2610	17.50	17.21	108.91%	0.544	0.582	031		
LTE Band 38	50	0			Back Surface	0	37850	2580	17.50	17.09	109.90%	0.517	0.568	-		
LTE Band 38	100RB	0			Back Surface	0	38000	2595	17.50	17.02	111.89%	0.520	0.581	-		
LTE Band 38	1	0			Top Edge	0	38150	2610	17.50	17.21	108.91%	0.516	0.552	-		
LTE Band 38	50	0			Top Edge	0	37850	2580	17.50	17.09	109.90%	0.486	0.545	-		
LTE Band 38	100RB	0			Top Edge	0	38000	2595	17.50	17.02	111.89%	0.501	0.550	-		
LTE Band 38	1	0			Back Surface	0	38150	2610	17.50	17.21	108.91%	0.474	0.507	-		
2nd source spot-check																
LTE Band 41	20MHz	QPSK			1	0	Back Surface	0	39750	2508	19.50	19.49	100.23%	0.776	0.778	032
LTE Band 41					1	0	Back Surface	0	40185	2549.5	19.50	19.31	104.47%	0.728	0.781	-
LTE Band 41			1	0	Back Surface	0	40620	2593	19.50	19.30	104.71%	0.738	0.773	-		
LTE Band 41			1	0	Back Surface	0	41055	2636.5	19.50	19.33	103.89%	0.741	0.771	-		
LTE Band 41			1	0	Back Surface	0	41490	2680	19.50	19.28	105.20%	0.725	0.763	-		
LTE Band 41			50	0	Back Surface	0	40185	2549.5	19.50	19.20	107.15%	0.716	0.787	-		
LTE Band 41			100RB	0	Back Surface	0	41490	2680	19.50	19.17	107.89%	0.718	0.775	-		
LTE Band 41			1	0	Top Edge	0	39750	2508	19.50	19.49	100.23%	0.456	0.457	-		
LTE Band 41			50	0	Top Edge	0	40185	2549.5	19.50	19.20	107.15%	0.434	0.465	-		
LTE Band 41			100RB	0	Top Edge	0	41490	2680	19.50	19.17	107.89%	0.428	0.462	-		
LTE Band 41			1	0	Back Surface	0	39750	2508	19.50	19.49	100.23%	0.723	0.725	-		
2nd source spot-check																

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sensor off_Ant4

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
WLAN 802.11b	Back Surface	0	11	2462	11.00	10.68	1.01	107.65%	0.478	0.517	033
WLAN 802.11b	Top Edge	0	11	2462	11.00	10.68	1.01	107.65%	0.392	0.208	-
WLAN 802.11b	Bottom Edge	0	1	2412	11.00	10.47	1.01	112.98%	0.001	0.001	-
WLAN 802.11b	Left Edge	0	1	2412	11.00	10.47	1.01	112.98%	0.018	0.020	-
WLAN 802.11b	Right Edge	0	1	2412	11.00	10.47	1.01	112.98%	0.023	0.026	-
2nd source spot-check	Back Surface	0	11	2462	11.00	10.68	1.01	107.65%	0.422	0.457	-
Bluetooth(GFSK)	Back Surface	14	78	2480	10.00	9.15	1.31	121.62%	0.023	0.037	034
Bluetooth(GFSK)	Top Edge	15	78	2480	10.00	9.15	1.31	121.62%	0.015	0.024	-
Bluetooth(GFSK)	Bottom Edge	0	78	2480	10.00	9.15	1.31	121.62%	0.001	0.002	-
Bluetooth(GFSK)	Left Edge	0	78	2480	10.00	9.15	1.31	121.62%	0.009	0.015	-
Bluetooth(GFSK)	Right Edge	0	78	2480	10.00	9.15	1.31	121.62%	0.012	0.019	-
2nd source spot-check	Back Surface	14	78	2480	10.00	9.15	1.31	121.62%	0.020	0.032	-
WLAN 802.11a 5.2G	Back Surface	14	48	5240	14.50	14.17	1.03	107.89%	0.137	0.152	-
WLAN 802.11a 5.2G	Top Edge	15	48	5240	14.50	14.17	1.03	107.89%	0.295	0.327	035
WLAN 802.11a 5.2G	Bottom Edge	0	48	5240	14.50	14.17	1.03	107.89%	0.001	0.001	-
WLAN 802.11a 5.2G	Left Edge	0	48	5240	14.50	14.17	1.03	107.89%	0.011	0.012	-
WLAN 802.11a 5.2G	Right Edge	0	48	5240	14.50	14.17	1.03	107.89%	0.101	0.112	-
2nd source spot-check	Top Edge	15	48	5240	14.50	14.17	1.03	107.89%	0.227	0.251	-
WLAN 802.11a 5.3G	Back Surface	14	60	5300	14.50	14.19	1.03	107.40%	0.169	0.186	-
WLAN 802.11a 5.3G	Top Edge	15	60	5300	14.50	14.19	1.03	107.40%	0.295	0.325	036
WLAN 802.11a 5.3G	Bottom Edge	0	60	5300	14.50	14.19	1.03	107.40%	0.001	0.001	-
WLAN 802.11a 5.3G	Left Edge	0	60	5300	14.50	14.19	1.03	107.40%	0.015	0.017	-
WLAN 802.11a 5.3G	Right Edge	0	60	5300	14.50	14.19	1.03	107.40%	0.125	0.138	-
2nd source spot-check	Top Edge	15	60	5300	14.50	14.19	1.03	107.40%	0.254	0.280	-
WLAN 802.11n(40M) 5.8G	Back Surface	14	134	5670	14.00	13.88	1.04	102.80%	0.251	0.269	-
WLAN 802.11n(40M) 5.8G	Top Edge	15	134	5670	14.00	13.88	1.04	102.80%	0.588	0.629	037
WLAN 802.11n(40M) 5.8G	Bottom Edge	0	134	5670	14.00	13.88	1.04	102.80%	0.003	0.003	-
WLAN 802.11n(40M) 5.8G	Left Edge	0	134	5670	14.00	13.88	1.04	102.80%	0.033	0.035	-
WLAN 802.11n(40M) 5.8G	Right Edge	0	134	5670	14.00	13.88	1.04	102.80%	0.238	0.255	-
2nd source spot-check	Top Edge	15	134	5670	14.00	13.88	1.04	102.80%	0.499	0.534	-
WLAN 802.11n(40M) 5.8G	Back Surface	14	151	5755	14.00	13.66	1.04	108.14%	0.277	0.312	-
WLAN 802.11n(40M) 5.8G	Top Edge	15	151	5755	14.00	13.66	1.04	108.14%	0.562	0.633	038
WLAN 802.11n(40M) 5.8G	Bottom Edge	0	151	5755	14.00	13.66	1.04	108.14%	0.002	0.003	-
WLAN 802.11n(40M) 5.8G	Left Edge	0	151	5755	14.00	13.66	1.04	108.14%	0.031	0.035	-
WLAN 802.11n(40M) 5.8G	Right Edge	0	151	5755	14.00	13.66	1.04	108.14%	0.244	0.275	-
2nd source spot-check	Top Edge	15	151	5755	14.00	13.66	1.04	108.14%	0.512	0.576	-

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sensor on_Ant4

Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
									Measured	Reported	
Bluetooth(GFSK)	Back Surface	0	39	2441	6.00	5.84	1.31	103.75%	0.124	0.168	039
Bluetooth(GFSK)	Top Edge	0	39	2441	6.00	5.84	1.31	103.75%	0.042	0.057	-
2nd source spot-check	Back Surface	0	39	2441	6.00	5.84	1.31	103.75%	0.111	0.151	-
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
WLAN 802.11a 5.2G	Back Surface	0	36	5180	8.50	8.32	1.03	104.23%	0.525	0.561	-
WLAN 802.11a 5.2G	Top Edge	0	36	5180	8.50	8.32	1.03	104.23%	0.713	0.762	040
2nd source spot-check	Top Edge	0	36	5180	8.50	8.32	1.03	104.23%	0.664	0.710	-
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
WLAN 802.11a 5.3G	Back Surface	0	60	5300	8.00	7.92	1.03	101.86%	0.550	0.575	-
WLAN 802.11a 5.3G	Top Edge	0	60	5300	8.00	7.92	1.03	101.86%	0.612	0.640	041
2nd source spot-check	Top Edge	0	60	5300	8.00	7.92	1.03	101.86%	0.583	0.609	-
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
WLAN 802.11n(40M) 5.8G	Back Surface	0	134	5670	5.50	5.33	1.04	103.99%	0.425	0.460	-
WLAN 802.11n(40M) 5.8G	Top Edge	0	134	5670	5.50	5.33	1.04	103.99%	0.616	0.667	042
2nd source spot-check	Top Edge	0	134	5670	5.50	5.33	1.04	103.99%	0.578	0.626	-
Mode	Position	Distance (mm)	CH	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Duty cycle scaling	Power scaling	Averaged SAR over 1g (W/kg)		Plot page
WLAN 802.11n(40M) 5.8G	Back Surface	0	159	5795	5.50	5.39	1.04	102.57%	0.387	0.413	-
WLAN 802.11n(40M) 5.8G	Top Edge	0	159	5795	5.50	5.39	1.04	102.57%	0.725	0.774	043
2nd source spot-check	Top Edge	0	159	5795	5.50	5.39	1.04	102.57%	0.702	0.750	-

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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7 SIMULTANEOUS TRANSMISSION ANALYSIS

7.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Body
WLAN 5GHz Ant4 + BT Ant4	Yes
WWAN + WLAN 2.4GHz Ant4	Yes
WWAN + WLAN 5GHz Ant4	Yes
WWAN + WLAN 5GHz Ant4 + BT Ant4	Yes

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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:

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

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-1g.

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 $(\text{SAR1} + \text{SAR2})^{1.5}/R_i$, 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 R_i 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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Simultaneous Transmission Combination

sensor on_Ant1

	Exposure Position		FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
			0	2	5	6	5+6	0+2	0+5	0+5+6
			WWAN Ant 1	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluetooth Ant 4	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GPRS850<1Dn4Up>	Back Surface	0	0.741	0.517	0.575	0.168	0.743	1.258	1.316	1.484
	Top Edge	0	0.281	0.208	0.774	0.057	0.831	0.489	1.055	1.112
GPRS1900<1Dn4Up>	Back Surface	0	0.619	0.517	0.575	0.168	0.743	1.136	1.194	1.362
	Top Edge	0	0.573	0.208	0.774	0.057	0.831	0.781	1.347	1.404
WCDMA Band II	Back Surface	0	0.663	0.517	0.575	0.168	0.743	1.180	1.238	1.406
	Top Edge	0	0.636	0.208	0.774	0.057	0.831	0.844	1.410	1.467
WCDMA Band IV	Back Surface	0	0.399	0.517	0.575	0.168	0.743	0.916	0.974	1.142
	Top Edge	0	0.355	0.208	0.774	0.057	0.831	0.563	1.129	1.186
WCDMA Band V	Back Surface	0	0.604	0.517	0.575	0.168	0.743	1.121	1.179	1.347
	Top Edge	0	0.286	0.208	0.774	0.057	0.831	0.494	1.060	1.117
LTE Band 2	Back Surface	0	0.712	0.517	0.575	0.168	0.743	1.229	1.287	1.455
	Top Edge	0	0.671	0.208	0.774	0.057	0.831	0.879	1.445	1.502
LTE Band 4	Back Surface	0	1.100	0.517	0.575	0.168	0.743	1.617	1.675	1.843
	Top Edge	0	0.953	0.208	0.774	0.057	0.831	1.161	1.727	1.784
LTE Band 5	Back Surface	0	0.877	0.517	0.575	0.168	0.743	1.394	1.452	1.620
	Top Edge	0	0.390	0.208	0.774	0.057	0.831	0.598	1.164	1.221
LTE Band 12	Back Surface	0	1.186	0.517	0.575	0.168	0.743	1.703	1.761	1.929
	Top Edge	0	0.749	0.208	0.774	0.057	0.831	0.957	1.523	1.580
LTE Band 13	Back Surface	0	1.120	0.517	0.575	0.168	0.743	1.637	1.695	1.863
	Top Edge	0	0.861	0.208	0.774	0.057	0.831	1.069	1.635	1.692
LTE Band 25	Back Surface	0	0.784	0.517	0.575	0.168	0.743	1.301	1.359	1.527
	Top Edge	0	0.754	0.208	0.774	0.057	0.831	0.962	1.528	1.585
LTE Band 26_FCC	Back Surface	0	0.795	0.517	0.575	0.168	0.743	1.312	1.370	1.538
	Top Edge	0	0.344	0.208	0.774	0.057	0.831	0.552	1.118	1.175
LTE Band 66	Back Surface	0	0.836	0.517	0.575	0.168	0.743	1.353	1.411	1.579
	Top Edge	0	0.819	0.208	0.774	0.057	0.831	1.027	1.593	1.650

sensor on_Ant2

	Exposure Position		FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
			0	2	5	6	5+6	0+2	0+5	0+5+6
			WWAN Ant 2	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluetooth Ant 4	Summed	Summed	Summed	Summed
		1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 7	Back Surface	0	0.652	0.517	0.575	0.168	0.743	1.169	1.227	1.395
	Top Edge	0	0.637	0.208	0.774	0.057	0.831	0.845	1.411	1.468
LTE Band 38	Back Surface	0	0.582	0.517	0.575	0.168	0.743	1.099	1.157	1.325
	Top Edge	0	0.560	0.208	0.774	0.057	0.831	0.768	1.334	1.391
LTE Band 41	Back Surface	0	0.778	0.517	0.575	0.168	0.743	1.295	1.353	1.521
	Top Edge	0	0.465	0.208	0.774	0.057	0.831	0.673	1.239	1.296

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WLAN ant4 full power + WWAN ant1 reduce power

No P-sensor supported on Bottom / Left / Right edges				FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
Exposure Position	WWAN Ant 1 (Back / Top Sensor on)	WLAN Ant 4 (Sensor off)	0	2	5	6	5+6	0+2	0+5	0+5+6	
			WWAN Ant 1	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluetooth Ant 4	Summed	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GPRS850<1Dn4Up>	Back Surface	0	2.4G 0 / SG&BT 14	0.741	0.517	0.312	0.037	0.349	1.258	1.053	1.090
	Top Edge	0	2.4G 0 / SG&BT 15	0.281	0.208	0.633	0.024	0.657	0.489	0.914	0.938
	Bottom Edge	0	0	0.028	0.001	0.003	0.002	0.005	0.029	0.031	0.033
	Left Edge	0	0	0.136	0.020	0.035	0.015	0.050	0.156	0.171	0.186
	Right Edge	0	0	0.041	0.026	0.275	0.019	0.294	0.067	0.316	0.335
GPRS1900<1Dn4Up>	Back Surface	0	2.4G 0 / SG&BT 14	0.619	0.517	0.312	0.037	0.349	1.136	0.931	0.968
	Top Edge	0	2.4G 0 / SG&BT 15	0.573	0.208	0.633	0.024	0.657	0.781	1.206	1.230
	Bottom Edge	0	0	0.020	0.001	0.003	0.002	0.005	0.021	0.023	0.025
	Left Edge	0	0	0.116	0.020	0.035	0.015	0.050	0.136	0.151	0.166
	Right Edge	0	0	0.030	0.026	0.275	0.019	0.294	0.056	0.305	0.324
WCDMA Band II	Back Surface	0	2.4G 0 / SG&BT 14	0.663	0.517	0.312	0.037	0.349	1.180	0.975	1.012
	Top Edge	0	2.4G 0 / SG&BT 15	0.636	0.208	0.633	0.024	0.657	0.844	1.269	1.293
	Bottom Edge	0	0	0.012	0.001	0.003	0.002	0.005	0.013	0.015	0.017
	Left Edge	0	0	0.061	0.020	0.035	0.015	0.050	0.081	0.096	0.111
	Right Edge	0	0	0.019	0.026	0.275	0.019	0.294	0.045	0.294	0.313
WCDMA Band IV	Back Surface	0	2.4G 0 / SG&BT 14	0.399	0.517	0.312	0.037	0.349	0.916	0.711	0.748
	Top Edge	0	2.4G 0 / SG&BT 15	0.355	0.208	0.633	0.024	0.657	0.563	0.988	1.012
	Bottom Edge	0	0	0.024	0.001	0.003	0.002	0.005	0.025	0.027	0.029
	Left Edge	0	0	0.080	0.020	0.035	0.015	0.050	0.100	0.115	0.130
	Right Edge	0	0	0.021	0.026	0.275	0.019	0.294	0.047	0.296	0.315
WCDMA Band V	Back Surface	0	2.4G 0 / SG&BT 14	0.804	0.517	0.312	0.037	0.349	1.121	0.916	0.953
	Top Edge	0	2.4G 0 / SG&BT 15	0.286	0.208	0.633	0.024	0.657	0.494	0.919	0.943
	Bottom Edge	0	0	0.021	0.001	0.003	0.002	0.005	0.022	0.024	0.026
	Left Edge	0	0	0.075	0.020	0.035	0.015	0.050	0.095	0.110	0.125
	Right Edge	0	0	0.014	0.026	0.275	0.019	0.294	0.040	0.289	0.308
LTE Band 2	Back Surface	0	2.4G 0 / SG&BT 14	0.712	0.517	0.312	0.037	0.349	1.229	1.024	1.061
	Top Edge	0	2.4G 0 / SG&BT 15	0.671	0.208	0.633	0.024	0.657	0.879	1.304	1.328
	Bottom Edge	0	0	0.013	0.001	0.003	0.002	0.005	0.014	0.016	0.018
	Left Edge	0	0	0.051	0.020	0.035	0.015	0.050	0.071	0.086	0.101
	Right Edge	0	0	0.018	0.026	0.275	0.019	0.294	0.044	0.293	0.312
LTE Band 4	Back Surface	0	2.4G 0 / SG&BT 14	1.100	0.517	0.312	0.037	0.349	1.617	1.412	1.449
	Top Edge	0	2.4G 0 / SG&BT 15	0.963	0.208	0.633	0.024	0.657	1.161	1.586	1.610
	Bottom Edge	0	0	0.024	0.001	0.003	0.002	0.005	0.025	0.027	0.029
	Left Edge	0	0	0.071	0.020	0.035	0.015	0.050	0.091	0.106	0.121
	Right Edge	0	0	0.021	0.026	0.275	0.019	0.294	0.047	0.296	0.315
LTE Band 5	Back Surface	0	2.4G 0 / SG&BT 14	0.877	0.517	0.312	0.037	0.349	1.394	1.189	1.226
	Top Edge	0	2.4G 0 / SG&BT 15	0.390	0.208	0.633	0.024	0.657	0.598	1.023	1.047
	Bottom Edge	0	0	0.030	0.001	0.003	0.002	0.005	0.031	0.033	0.035
	Left Edge	0	0	0.077	0.020	0.035	0.015	0.050	0.097	0.112	0.127
	Right Edge	0	0	0.014	0.026	0.275	0.019	0.294	0.040	0.289	0.308
LTE Band 12	Back Surface	0	2.4G 0 / SG&BT 14	1.186	0.517	0.312	0.037	0.349	1.703	1.498	1.535
	Top Edge	0	2.4G 0 / SG&BT 15	0.749	0.208	0.633	0.024	0.657	0.957	1.382	1.406
	Bottom Edge	0	0	0.028	0.001	0.003	0.002	0.005	0.029	0.031	0.033
	Left Edge	0	0	0.076	0.020	0.035	0.015	0.050	0.096	0.111	0.126
	Right Edge	0	0	0.015	0.026	0.275	0.019	0.294	0.041	0.290	0.309
LTE Band 13	Back Surface	0	2.4G 0 / SG&BT 14	1.120	0.517	0.312	0.037	0.349	1.637	1.432	1.469
	Top Edge	0	2.4G 0 / SG&BT 15	0.861	0.208	0.633	0.024	0.657	1.069	1.494	1.518
	Bottom Edge	0	0	0.034	0.001	0.003	0.002	0.005	0.035	0.037	0.039
	Left Edge	0	0	0.082	0.020	0.035	0.015	0.050	0.102	0.117	0.132
	Right Edge	0	0	0.016	0.026	0.275	0.019	0.294	0.042	0.291	0.310
LTE Band 25	Back Surface	0	2.4G 0 / SG&BT 14	0.784	0.517	0.312	0.037	0.349	1.301	1.096	1.133
	Top Edge	0	2.4G 0 / SG&BT 15	0.754	0.208	0.633	0.024	0.657	0.962	1.387	1.411
	Bottom Edge	0	0	0.013	0.001	0.003	0.002	0.005	0.014	0.016	0.018
	Left Edge	0	0	0.066	0.020	0.035	0.015	0.050	0.086	0.101	0.116
	Right Edge	0	0	0.022	0.026	0.275	0.019	0.294	0.048	0.297	0.316
LTE Band 26_FCC	Back Surface	0	2.4G 0 / SG&BT 14	0.795	0.517	0.312	0.037	0.349	1.312	1.107	1.144
	Top Edge	0	2.4G 0 / SG&BT 15	0.344	0.208	0.633	0.024	0.657	0.552	0.977	1.001
	Bottom Edge	0	0	0.027	0.001	0.003	0.002	0.005	0.028	0.030	0.032
	Left Edge	0	0	0.052	0.020	0.035	0.015	0.050	0.072	0.087	0.102
	Right Edge	0	0	0.015	0.026	0.275	0.019	0.294	0.041	0.290	0.309
LTE Band 66	Back Surface	0	2.4G 0 / SG&BT 14	0.836	0.517	0.312	0.037	0.349	1.353	1.148	1.185
	Top Edge	0	2.4G 0 / SG&BT 15	0.819	0.208	0.633	0.024	0.657	1.027	1.452	1.476
	Bottom Edge	0	0	0.032	0.001	0.003	0.002	0.005	0.033	0.035	0.037
	Left Edge	0	0	0.094	0.020	0.035	0.015	0.050	0.114	0.129	0.144
	Right Edge	0	0	0.024	0.026	0.275	0.019	0.294	0.050	0.299	0.318

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WLAN ant4 reduce power + WWAN ant2 full power

No P-sensor supported on Bottom / Left / Right edges				FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
Exposure Position	WWAN Ant 2 (Sensor off)	WLAN Ant 4 (Back / Top Sensor on)	0	2	5	6	5+6	0+2	0+5	0+5+6	
			WWAN Ant 2	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluefooth Ant 4	Summed	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
LTE Band 7	Back Surface	12	0	0.765	0.517	0.575	0.168	0.743	1.282	1.340	1.508
	Top Edge	13	0	0.336	0.208	0.774	0.057	0.831	0.544	1.110	1.167
	Bottom Edge	0	0	0.023	0.001	0.003	0.002	0.005	0.024	0.026	0.028
	Left Edge	0	0	0.093	0.020	0.035	0.015	0.050	0.113	0.128	0.143
	Right Edge	0	0	0.037	0.026	0.275	0.020	0.295	0.063	0.312	0.332
LTE Band 38	Back Surface	12	0	0.433	0.517	0.575	0.168	0.743	0.950	1.008	1.176
	Top Edge	13	0	0.186	0.208	0.774	0.057	0.831	0.394	0.960	1.017
	Bottom Edge	0	0	0.004	0.001	0.003	0.002	0.005	0.005	0.007	0.009
	Left Edge	0	0	0.074	0.020	0.035	0.015	0.050	0.094	0.109	0.124
	Right Edge	0	0	0.049	0.026	0.275	0.020	0.295	0.075	0.324	0.344
LTE Band 41	Back Surface	12	0	0.488	0.517	0.575	0.168	0.743	1.005	1.063	1.231
	Top Edge	13	0	0.208	0.208	0.774	0.057	0.831	0.416	0.982	1.039
	Bottom Edge	0	0	0.008	0.001	0.003	0.002	0.005	0.009	0.011	0.013
	Left Edge	0	0	0.074	0.020	0.035	0.015	0.050	0.094	0.109	0.124
	Right Edge	0	0	0.063	0.026	0.275	0.020	0.295	0.089	0.338	0.358

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WLAN ant4 full power + WWAN ant1 full power

No P-sensor supported on Bottom / Left / Right edges				FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
Exposure Position	WWAN Ant 1 (Sensor off)	WLAN Ant 4 (Sensor off)	0	2	5	8	5+8	0+2	0+5	0+5+8	
			WWAN Ant 1	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluetooth Ant 4	Summed	Summed	Summed	Summed	
			1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	
GPRS850<1Dn4Up>	Back Surface	16	2.4G 0 / 5G&B T 14	0.311	0.517	0.312	0.037	0.349	0.828	0.623	0.660
	Top Edge	17	2.4G 0 / 5G&B T 15	0.103	0.208	0.633	0.024	0.657	0.311	0.738	0.760
	Bottom Edge	0	0	0.028	0.001	0.003	0.002	0.005	0.029	0.031	0.033
	Left Edge	0	0	0.136	0.020	0.035	0.015	0.050	0.156	0.171	0.196
	Right Edge	0	0	0.041	0.026	0.275	0.019	0.294	0.067	0.316	0.335
GPRS1900<1Dn4Up>	Back Surface	16	2.4G 0 / 5G&B T 14	0.496	0.517	0.312	0.037	0.349	1.015	0.810	0.847
	Top Edge	17	2.4G 0 / 5G&B T 15	0.351	0.208	0.633	0.024	0.657	0.559	0.984	1.008
	Bottom Edge	0	0	0.020	0.001	0.003	0.002	0.005	0.021	0.023	0.025
	Left Edge	0	0	0.116	0.020	0.035	0.015	0.050	0.136	0.151	0.166
	Right Edge	0	0	0.030	0.026	0.275	0.019	0.294	0.056	0.305	0.324
WCDMA Band II	Back Surface	16	2.4G 0 / 5G&B T 14	0.889	0.517	0.312	0.037	0.349	1.406	1.201	1.238
	Top Edge	17	2.4G 0 / 5G&B T 15	0.538	0.208	0.633	0.024	0.657	0.746	1.171	1.195
	Bottom Edge	0	0	0.012	0.001	0.003	0.002	0.005	0.013	0.015	0.017
	Left Edge	0	0	0.061	0.020	0.035	0.015	0.050	0.081	0.096	0.111
	Right Edge	0	0	0.019	0.026	0.275	0.019	0.294	0.045	0.294	0.313
WCDMA Band IV	Back Surface	16	2.4G 0 / 5G&B T 14	0.663	0.517	0.312	0.037	0.349	1.180	0.975	1.012
	Top Edge	17	2.4G 0 / 5G&B T 15	0.406	0.208	0.633	0.024	0.657	0.614	1.039	1.063
	Bottom Edge	0	0	0.024	0.001	0.003	0.002	0.005	0.025	0.027	0.029
	Left Edge	0	0	0.080	0.020	0.035	0.015	0.050	0.100	0.115	0.130
	Right Edge	0	0	0.021	0.026	0.275	0.019	0.294	0.047	0.296	0.315
WCDMA Band V	Back Surface	16	2.4G 0 / 5G&B T 14	0.394	0.517	0.312	0.037	0.349	0.911	0.706	0.743
	Top Edge	17	2.4G 0 / 5G&B T 15	0.142	0.208	0.633	0.024	0.657	0.350	0.775	0.799
	Bottom Edge	0	0	0.021	0.001	0.003	0.002	0.005	0.022	0.024	0.026
	Left Edge	0	0	0.075	0.020	0.035	0.015	0.050	0.095	0.110	0.125
	Right Edge	0	0	0.014	0.026	0.275	0.019	0.294	0.040	0.289	0.308
LTE Band 2	Back Surface	16	2.4G 0 / 5G&B T 14	0.832	0.517	0.312	0.037	0.349	1.349	1.144	1.181
	Top Edge	17	2.4G 0 / 5G&B T 15	0.409	0.208	0.633	0.024	0.657	0.617	1.042	1.066
	Bottom Edge	0	0	0.013	0.001	0.003	0.002	0.005	0.014	0.016	0.018
	Left Edge	0	0	0.051	0.020	0.035	0.015	0.050	0.071	0.086	0.101
	Right Edge	0	0	0.018	0.026	0.275	0.019	0.294	0.044	0.293	0.312
LTE Band 4	Back Surface	16	2.4G 0 / 5G&B T 14	0.512	0.517	0.312	0.037	0.349	1.029	0.824	0.861
	Top Edge	17	2.4G 0 / 5G&B T 15	0.383	0.208	0.633	0.024	0.657	0.591	1.016	1.040
	Bottom Edge	0	0	0.024	0.001	0.003	0.002	0.005	0.025	0.027	0.029
	Left Edge	0	0	0.071	0.020	0.035	0.015	0.050	0.091	0.106	0.121
	Right Edge	0	0	0.021	0.026	0.275	0.019	0.294	0.047	0.296	0.315
LTE Band 5	Back Surface	16	2.4G 0 / 5G&B T 14	0.247	0.517	0.312	0.037	0.349	0.764	0.559	0.596
	Top Edge	17	2.4G 0 / 5G&B T 15	0.107	0.208	0.633	0.024	0.657	0.315	0.740	0.764
	Bottom Edge	0	0	0.030	0.001	0.003	0.002	0.005	0.031	0.033	0.035
	Left Edge	0	0	0.077	0.020	0.035	0.015	0.050	0.097	0.112	0.127
	Right Edge	0	0	0.014	0.026	0.275	0.019	0.294	0.040	0.289	0.308
LTE Band 12	Back Surface	16	2.4G 0 / 5G&B T 14	0.284	0.517	0.312	0.037	0.349	0.801	0.596	0.633
	Top Edge	17	2.4G 0 / 5G&B T 15	0.119	0.208	0.633	0.024	0.657	0.327	0.752	0.776
	Bottom Edge	0	0	0.028	0.001	0.003	0.002	0.005	0.029	0.031	0.033
	Left Edge	0	0	0.076	0.020	0.035	0.015	0.050	0.096	0.111	0.126
	Right Edge	0	0	0.015	0.026	0.275	0.019	0.294	0.041	0.290	0.309
LTE Band 13	Back Surface	16	2.4G 0 / 5G&B T 14	0.305	0.517	0.312	0.037	0.349	0.822	0.617	0.654
	Top Edge	17	2.4G 0 / 5G&B T 15	0.125	0.208	0.633	0.024	0.657	0.333	0.758	0.782
	Bottom Edge	0	0	0.034	0.001	0.003	0.002	0.005	0.035	0.037	0.039
	Left Edge	0	0	0.082	0.020	0.035	0.015	0.050	0.102	0.117	0.132
	Right Edge	0	0	0.016	0.026	0.275	0.019	0.294	0.042	0.291	0.310
LTE Band 25	Back Surface	16	2.4G 0 / 5G&B T 14	0.721	0.517	0.312	0.037	0.349	1.238	1.033	1.070
	Top Edge	17	2.4G 0 / 5G&B T 15	0.713	0.208	0.633	0.024	0.657	0.921	1.346	1.370
	Bottom Edge	0	0	0.013	0.001	0.003	0.002	0.005	0.014	0.016	0.018
	Left Edge	0	0	0.056	0.020	0.035	0.015	0.050	0.086	0.101	0.116
	Right Edge	0	0	0.022	0.026	0.275	0.019	0.294	0.048	0.297	0.316
LTE Band 26_FCC	Back Surface	16	2.4G 0 / 5G&B T 14	0.283	0.517	0.312	0.037	0.349	0.800	0.595	0.632
	Top Edge	17	2.4G 0 / 5G&B T 15	0.112	0.208	0.633	0.024	0.657	0.320	0.745	0.769
	Bottom Edge	0	0	0.027	0.001	0.003	0.002	0.005	0.028	0.030	0.032
	Left Edge	0	0	0.052	0.020	0.035	0.015	0.050	0.072	0.087	0.102
	Right Edge	0	0	0.015	0.026	0.275	0.019	0.294	0.041	0.290	0.309
LTE Band 66	Back Surface	16	2.4G 0 / 5G&B T 14	0.703	0.517	0.312	0.037	0.349	1.220	1.015	1.052
	Top Edge	17	2.4G 0 / 5G&B T 15	0.506	0.208	0.633	0.024	0.657	0.716	1.141	1.165
	Bottom Edge	0	0	0.032	0.001	0.003	0.002	0.005	0.033	0.035	0.037
	Left Edge	0	0	0.094	0.020	0.035	0.015	0.050	0.114	0.129	0.144
	Right Edge	0	0	0.024	0.026	0.275	0.019	0.294	0.050	0.299	0.318

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WLAN ant4 full power + WWAN ant2 full power

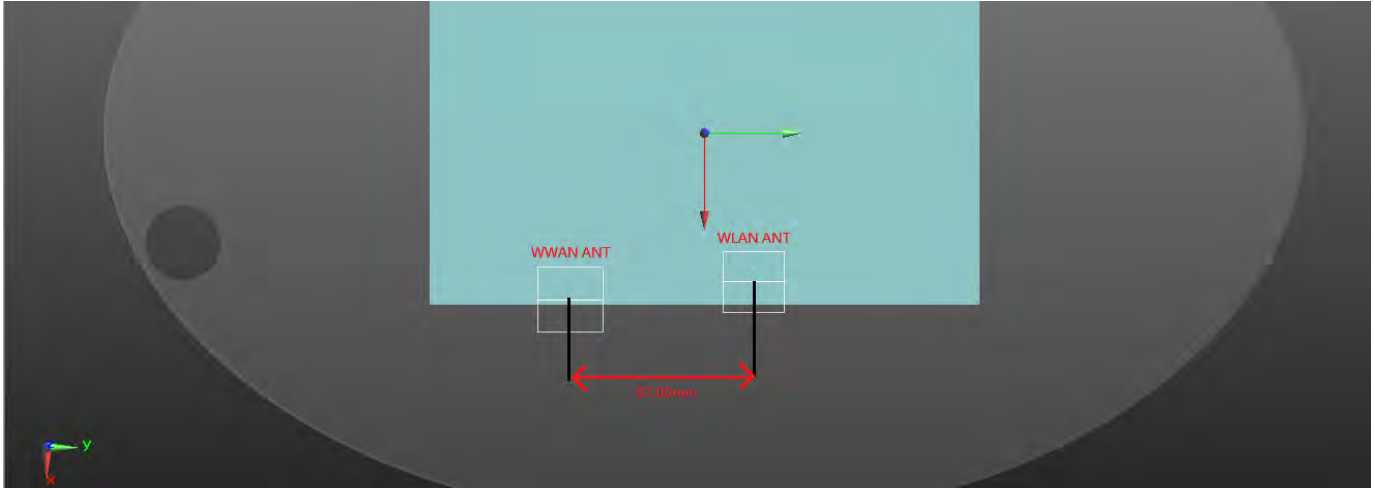
No P-sensor supported on Bottom / Left / Right edges				FCC Reported SAR				Scenario1	Scenario2	Scenario3	Scenario4
	Exposure Position	WWAN Ant 2 (Sensor off)	WLAN Ant 4 (Sensor off)	0	2	5	6	5+6	0+2	0+5	0+5+6
				WWAN Ant 2	2.4GHz WLAN Ant 4	5GHz WLAN Ant 4	Bluetooth Ant 4	Summed	Summed	Summed	Summed
				1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)
LTE Band 7	Back Surface	12	2.4G 0 / 5G&BT 14	0.765	0.517	0.312	0.037	0.349	1.282	1.077	1.114
	Top Edge	13	2.4G 0 / 5G&BT 15	0.336	0.208	0.633	0.024	0.657	0.544	0.969	0.993
	Bottom Edge	0	0	0.023	0.001	0.003	0.002	0.005	0.024	0.026	0.028
	Left Edge	0	0	0.093	0.020	0.035	0.015	0.050	0.113	0.128	0.143
	Right Edge	0	0	0.037	0.026	0.275	0.019	0.294	0.063	0.312	0.331
LTE Band 38	Back Surface	12	2.4G 0 / 5G&BT 14	0.433	0.517	0.312	0.037	0.349	0.950	0.745	0.782
	Top Edge	13	2.4G 0 / 5G&BT 15	0.186	0.208	0.633	0.024	0.657	0.394	0.819	0.843
	Bottom Edge	0	0	0.004	0.001	0.003	0.002	0.005	0.005	0.007	0.009
	Left Edge	0	0	0.074	0.020	0.035	0.015	0.050	0.094	0.109	0.124
	Right Edge	0	0	0.049	0.026	0.275	0.019	0.294	0.075	0.324	0.343
LTE Band 41	Back Surface	12	2.4G 0 / 5G&BT 14	0.488	0.517	0.312	0.037	0.349	1.005	0.800	0.837
	Top Edge	13	2.4G 0 / 5G&BT 15	0.208	0.208	0.633	0.024	0.657	0.416	0.841	0.865
	Bottom Edge	0	0	0.008	0.001	0.003	0.002	0.005	0.009	0.011	0.013
	Left Edge	0	0	0.074	0.020	0.035	0.015	0.050	0.094	0.109	0.124
	Right Edge	0	0	0.063	0.026	0.275	0.019	0.294	0.089	0.338	0.357

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Scenario 2: WWAN + WLAN 2.45GHz Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 4	1.100	80.40	-63.90	-2.47	-	-	-	-
	WLAN 2.4G Ant4	0.517	75.20	23.00	-2.45	1.617	87.06	0.024	SPLSR \leq 0.04, Not required

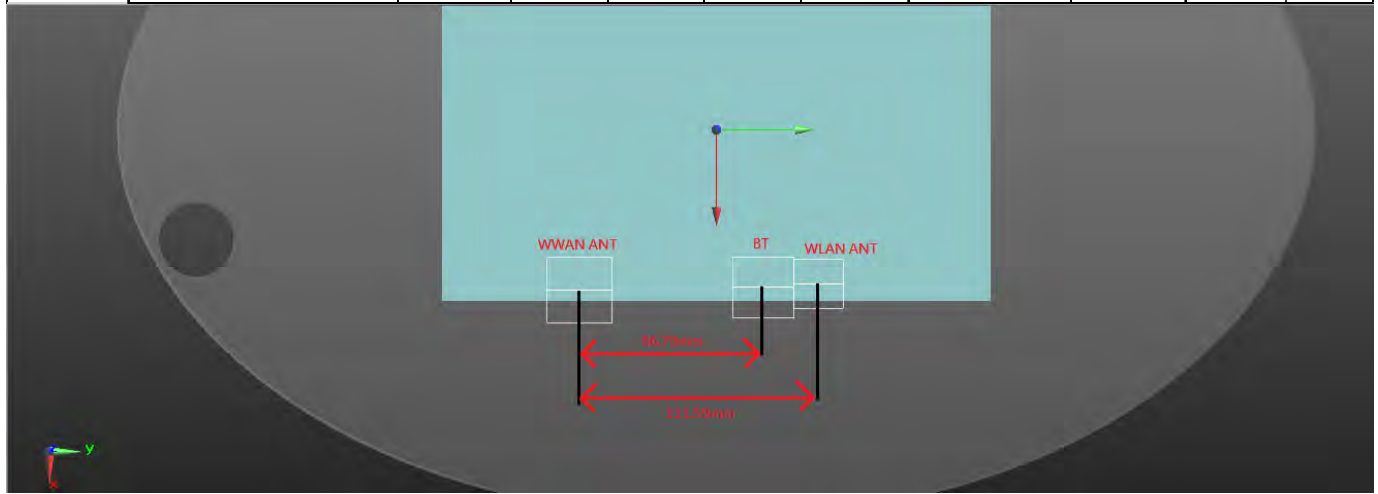


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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 4	1.100	80.40	-63.90	-2.47	-	-	-	-
	WLAN 5G Ant4	0.575	76.00	47.60	-2.59	1.675	111.59	0.019	SPLSR ≤ 0.04, Not required
	BT Ant4	0.168	76.60	22.80	-3.36	1.268	86.79	0.016	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.743	76.60	22.80	-3.36	1.843	86.79	0.029	SPLSR ≤ 0.04, Not required



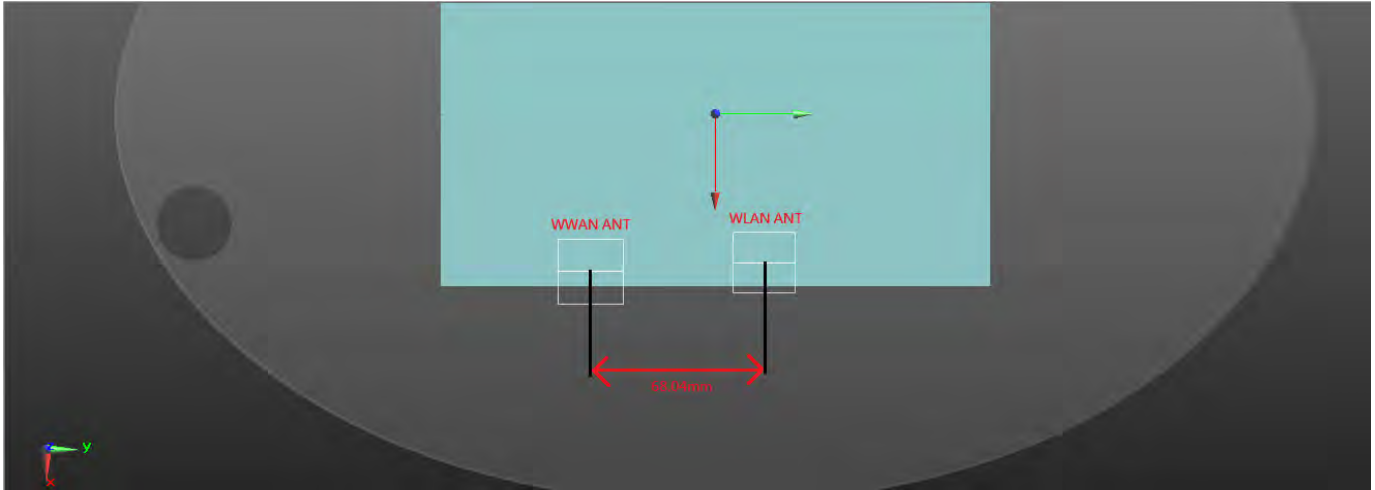
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 2: WWAN + WLAN 2.45GHz Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 12	1.186	77.50	-45.00	-2.66	-	-	-	-
	WLAN 2.4G Ant4	0.517	75.20	23.00	-2.45	1.703	68.04	0.033	SPLSR \leq 0.04, Not required

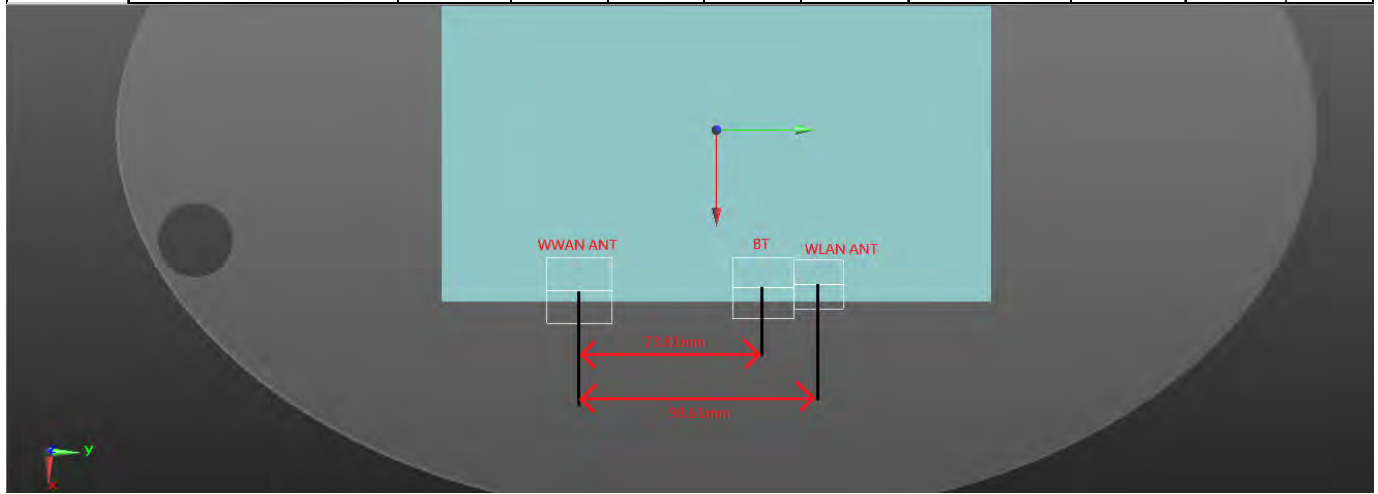


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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 5	0.877	77.40	-51.00	-2.62	-	-	-	-
	WLAN 5G Ant4	0.575	76.00	47.60	-2.59	1.452	98.61	0.018	SPLSR ≤ 0.04, Not required
	BT Ant4	0.168	76.60	22.80	-3.36	1.045	73.81	0.014	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.743	76.60	22.80	-3.36	1.620	73.81	0.028	SPLSR ≤ 0.04, Not required



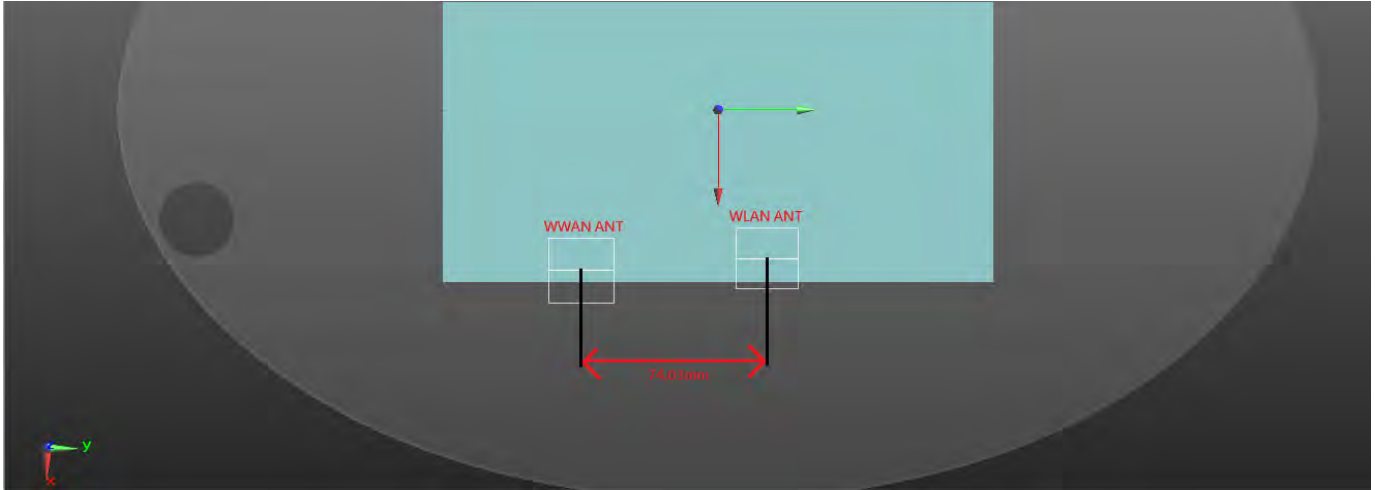
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 2: WWAN + WLAN 2.45GHz Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 13	1.120	77.40	-51.00	-2.61	-	-	-	-
	WLAN 2.4G Ant4	0.517	75.20	23.00	-2.45	1.637	74.03	0.028	SPLSR \leq 0.04, Not required



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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 12	1.186	77.50	-45.00	-2.66	-	-	-	-
	WLAN 5G Ant4	0.575	76.00	47.60	-2.59	1.761	92.61	0.025	SPLSR ≤ 0.04, Not required
	BT Ant4	0.168	76.60	22.80	-3.36	1.354	67.81	0.023	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.743	76.60	22.80	-3.36	1.929	67.81	0.040	SPLSR ≤ 0.04, Not required

*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Back Surface	LTE Band 13	1.120	77.40	-51.00	-2.61	-	-	-	-
	WLAN 5G Ant4	0.575	76.00	47.60	-2.59	1.695	98.61	0.022	SPLSR ≤ 0.04, Not required
	BT Ant4	0.168	76.60	22.80	-3.36	1.288	73.81	0.020	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.743	76.60	22.80	-3.36	1.863	73.81	0.034	SPLSR ≤ 0.04, Not required

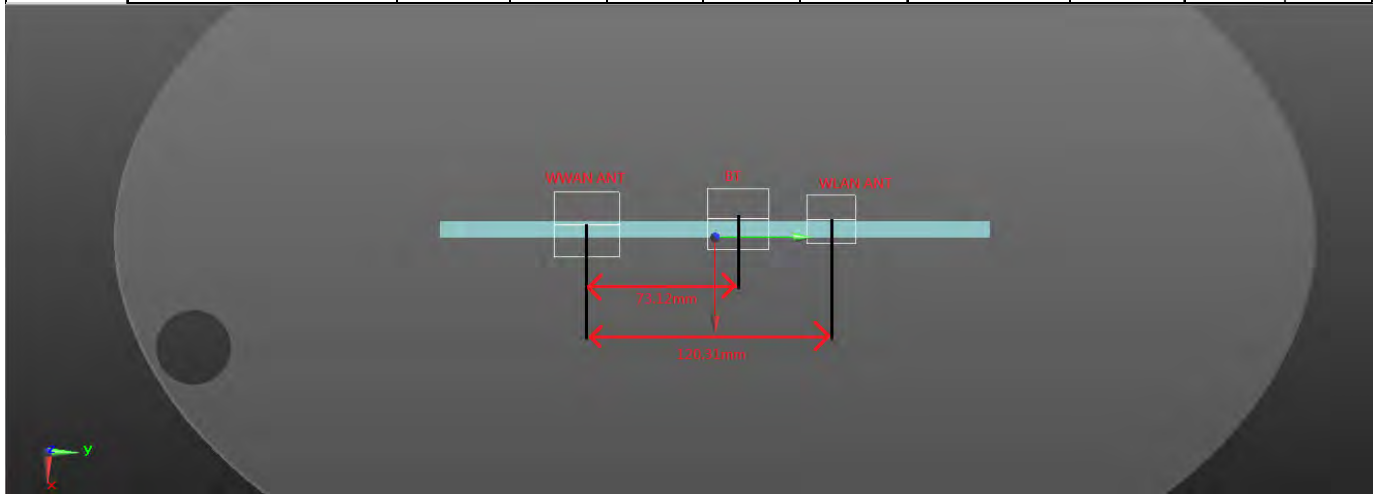
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			Σ SAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	LTE Band 4	0.953	-8.10	-60.90	-3.62	-	-	-	-
	WLAN 5G Ant4	0.774	-9.00	59.40	-4.39	1.727	120.31	0.019	SPLSR \leq 0.04, Not required
	BT Ant4	0.057	-9.20	12.20	-4.74	1.010	73.12	0.014	SPLSR \leq 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.831	-9.20	12.20	-4.74	1.784	73.12	0.033	SPLSR \leq 0.04, Not required



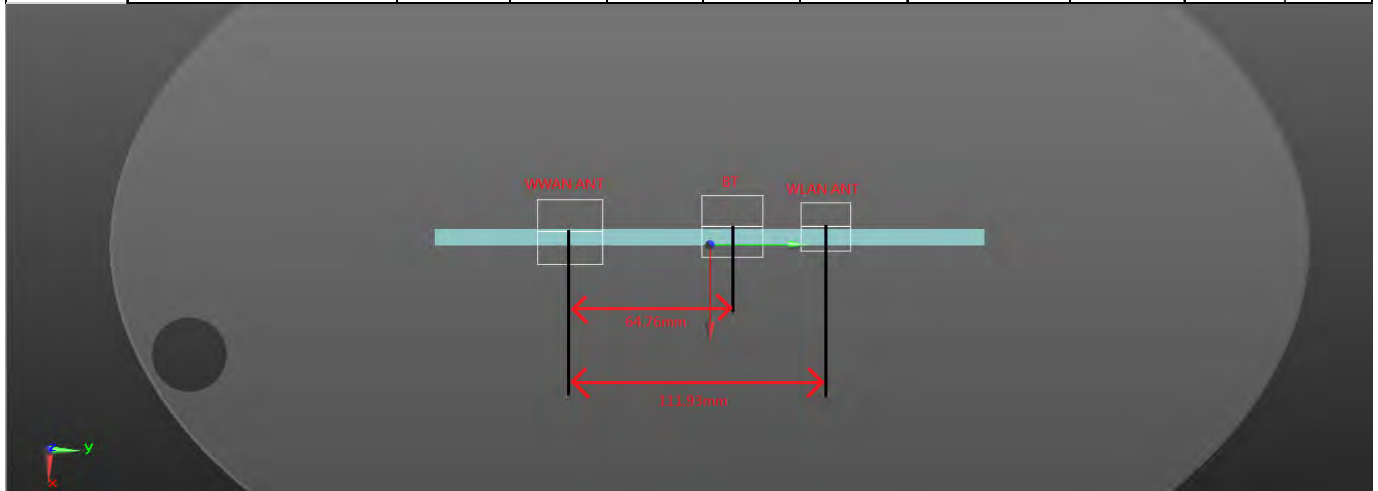
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	LTE Band 13	0.861	-6.50	-52.50	-3.68	-	-	-	-
	WLAN 5G Ant4	0.774	-9.00	59.40	-4.39	1.635	111.93	0.019	SPLSR ≤ 0.04, Not required
	BT Ant4	0.057	-9.20	12.20	-4.74	0.918	64.76	0.014	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.831	-9.20	12.20	-4.74	1.692	64.76	0.034	SPLSR ≤ 0.04, Not required



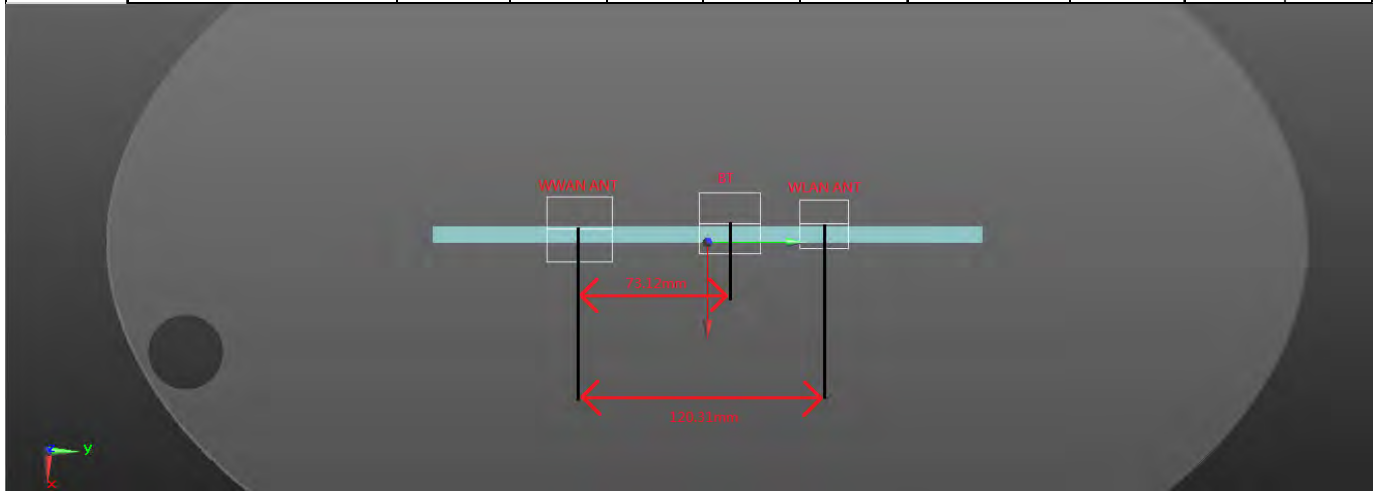
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 4: WWAN + WLAN 5GHz Ant4 + BT Ant4									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	LTE Band 66	0.819	-8.10	-60.90	-3.65	-	-	-	-
	WLAN 5G Ant4	0.774	-9.00	59.40	-4.39	1.593	120.31	0.017	SPLSR ≤ 0.04, Not required
	BT Ant4	0.057	-9.20	12.20	-4.74	0.876	73.12	0.011	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4 + BT Ant4	0.831	-9.20	12.20	-4.74	1.650	73.12	0.029	SPLSR ≤ 0.04, Not required



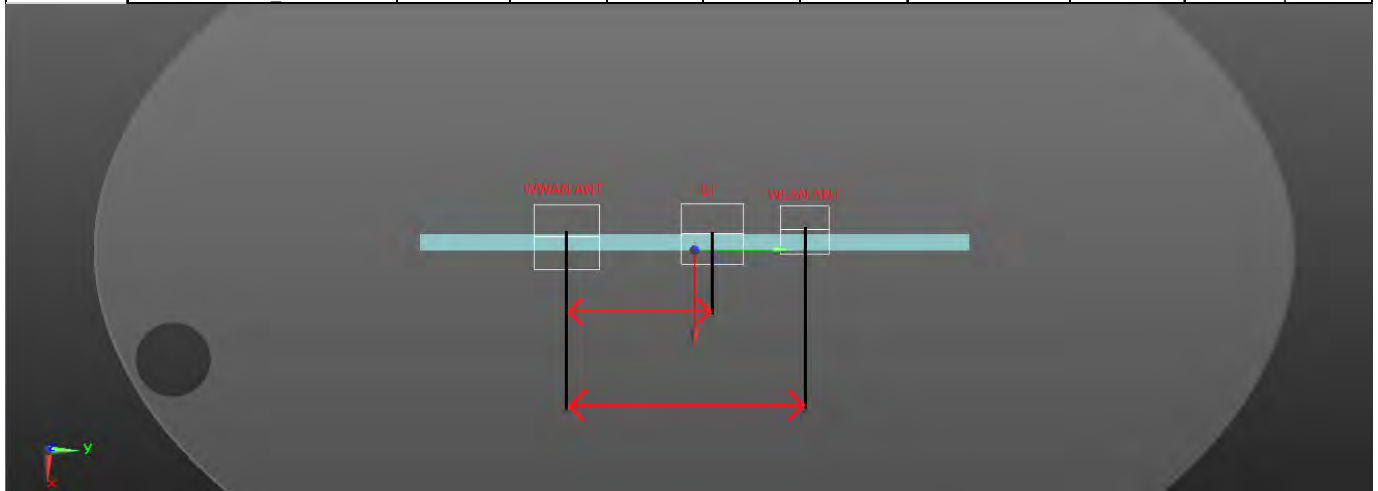
*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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Scenario 4: WWAN + WLAN 5GHz Ant4_15mm + BT Ant4_15mm									
Position	Conditions	SAR Value (W/kg)	Coordinates (cm)			ΣSAR (W/kg)	Peak Location Separation Distance (mm)	SPLSR	Simultaneous Transmission SAR Test
			x	y	z				
Top Edge	LTE Band 4	0.953	-8.10	-60.90	-3.62	-	-	-	-
	WLAN 5G Ant4_15mm	0.633	-10.00	53.20	-4.39	1.586	114.12	0.018	SPLSR ≤ 0.04, Not required
	BT Ant4_15mm	0.024	-8.00	3.80	-4.53	0.977	64.71	0.015	SPLSR ≤ 0.04, Not required
	WLAN 5G Ant4_15mm + BT Ant4_15mm	0.657	-8.00	3.80	-4.53	1.610	64.71	0.032	SPLSR ≤ 0.04, Not required



*For peak SAR location of WLAN Ant4 + BT Ant4, using the peak SAR location with smallest separation distance between LTE - WLAN Ant4 pair and LTE - BT Ant4 pair to be the worst case condition.

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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8 INSTRUMENTS LIST

SAR Test Site: SAR_3					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Oct/05/2021	Oct/04/2022
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	D2600V2	1005	Jan/18/2022	Jan/17/2023
SPEAG	System Validation Dipole	D5GHzV2	1023	Jan/27/2022	Jan/26/2023
SPEAG	Data acquisition Electronics	DAE4	1665	Feb/28/2022	Feb/27/2023
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
R&S	Radio Communication Test	CMW 500	165070	Oct/12/2021	Oct/11/2022
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	Dual-directional coupler	772D	MY52180142	Nov/02/2021	Nov/01/2022
Agilent	Dual-directional coupler	778D	MY52180302	Oct/29/2021	Oct/28/2022
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	MXG Analog Signal Generator	SMB100A03	182996	Dec/08/2021	Dec/07/2022
R&S	Power Meter	NRX	102191	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	101358	Jan/22/2022	Jan/21/2023
R&S	Power Sensor	NRP18S	109065	Oct/12/2021	Oct/11/2022
LKM	Digital thermometer	DTM3000	EC14010603	Nov/09/2021	Nov/08/2022
TECPEL	Digital thermometer	DTM-303A	TP190085	Jan/14/2022	Jan/13/2023

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9 UNCERTAINTY BUDGET

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

A	c	D	e		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%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
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%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
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.)	1.45%	N	1	1	0.64	0.43	0.93%	0.62%	M
Liquid Conductivity (mea.)	1.15%	N	1	1	0.6	0.49	0.69%	0.56%	M
Combined standard uncertainty		RSS					11.77%	11.74%	
Explant uncertainty (95% confidence interval), K=2							23.55%	23.47%	

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

A	c	D	e		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%	∞
<i>Isotropy, Axial</i>	3.50%	R	√3	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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%	∞
Readout Electronics	0.30%	N	1	1	1	1	0.30%	0.30%	∞
Response time	0.80%	R	√3	1.732	1	1	0.46%	0.46%	∞
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%	∞
RF ambient condition - noise	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	√3	1.732	1	1	1.73%	1.73%	∞
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.)	1.25%	N	1	1	0.64	0.43	0.80%	0.54%	M
Liquid Conductivity (mea.)	0.97%	N	1	1	0.6	0.49	0.58%	0.48%	M
Combined standard uncertainty		RSS					11.46%	11.43%	
Expant uncertainty (95% confidence interval), K=2							22.92%	22.86%	

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10 SAR MEASUREMENT RESULTS

Date: 2022/8/11

ID: 001

Report No. :TESA2207000200ES

GPRS 850_Body_Back Surface_CH 190_16mm_Ant1

Communication System: GPRS (1Dn4Up); Frequency: 836.6 MHz; Duty cycle= 1:2

Medium parameters used: $f = 837$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.427 W/kg

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

Reference Value = 6.350 V/m; Power Drift = 0.13 dB

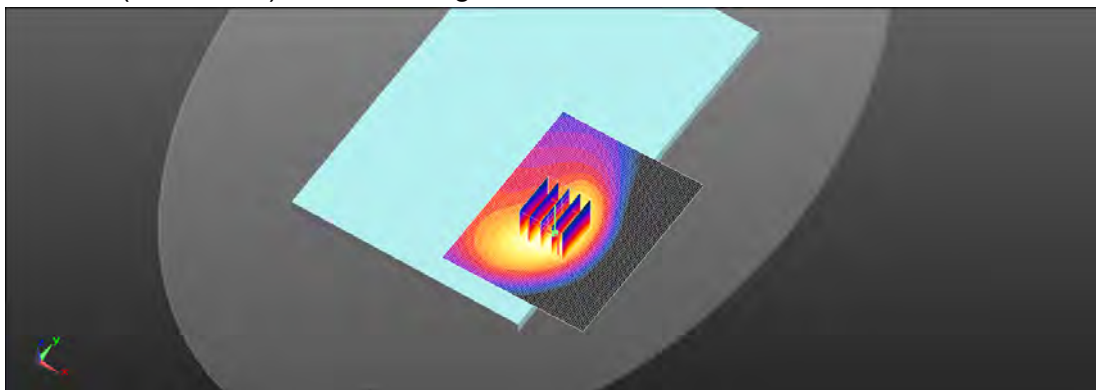
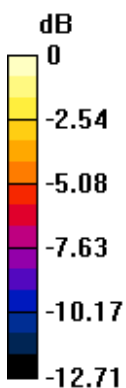
Peak SAR (extrapolated) = 0.491 W/kg

SAR(1 g) = 0.305 W/kg; SAR(10 g) = 0.191 W/kg

Smallest distance from peaks to all points 3 dB below = 17.2 mm

Ratio of SAR at M2 to SAR at M1 = 63.2%

Maximum value of SAR (measured) = 0.399 W/kg



0 dB = 0.399 W/kg = -3.99 dBW/kg

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ID: 002

Report No. :TESA2207000200ES

GPRS 1900_Body_Back Surface_CH 661_16mm_Ant1

Communication System: GPRS (1Dn4Up); Frequency: 1880 MHz; Duty cycle= 1:2

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.404 \text{ S/m}$; $\epsilon_r = 40.22$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.651 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 1.506 V/m ; Power Drift = 0.07 dB

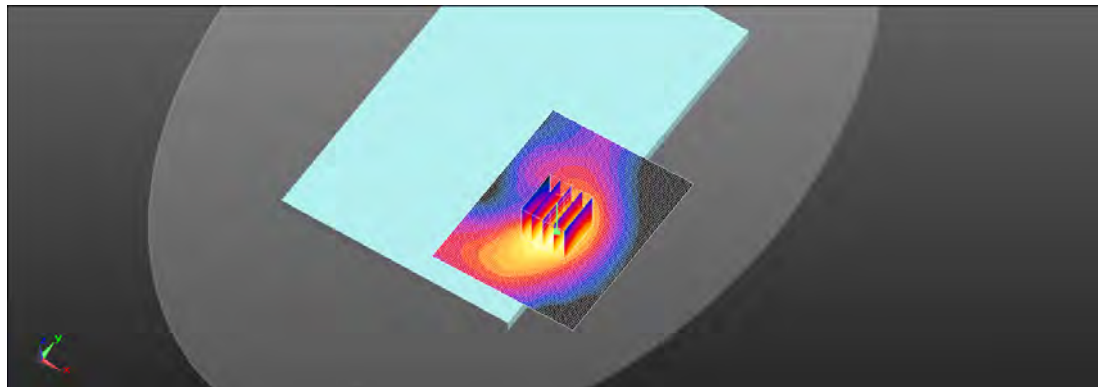
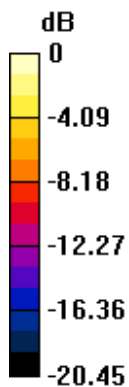
Peak SAR (extrapolated) = 0.873 W/kg

SAR(1 g) = 0.490 W/kg ; SAR(10 g) = 0.260 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 57%

Maximum value of SAR (measured) = 0.686 W/kg



0 dB = $0.686 \text{ W/kg} = -1.64 \text{ dBW/kg}$

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ID: 003

Report No. :TESA2207000200ES

WCDMA Band II_Body_Back Surface_CH 9400_16mm_Ant1

Communication System: WCDMA; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.404$ S/m; $\epsilon_r = 40.22$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

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

Reference Value = 2.083 V/m; Power Drift = 0.05 dB

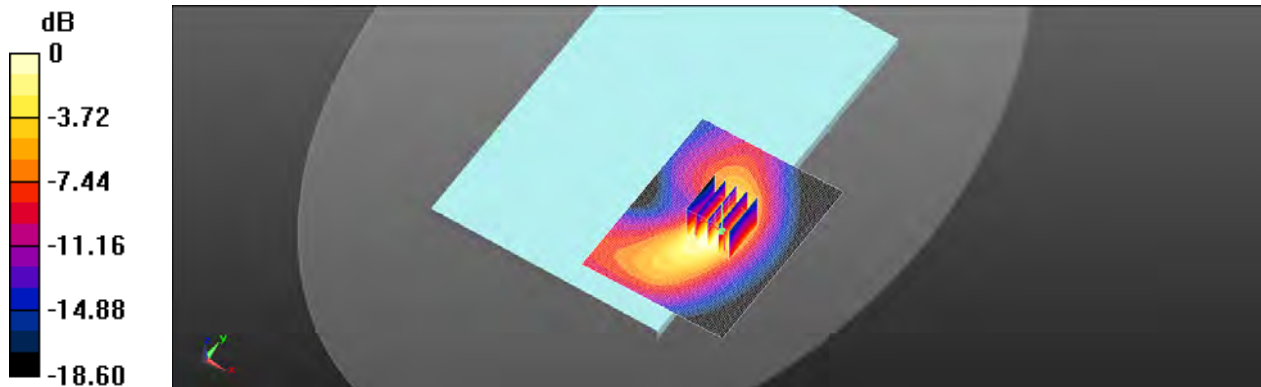
Peak SAR (extrapolated) = 1.45 W/kg

SAR(1 g) = 0.805 W/kg; SAR(10 g) = 0.425 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 58.5%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = 1.09 W/kg = 0.36 dBW/kg

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ID: 004

Report No. :TESA2207000200ES

WCDMA Band IV_Body_Back Surface_CH 1513_16mm_Ant1

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.788 W/kg

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

Reference Value = 2.159 V/m; Power Drift = 0.12 dB

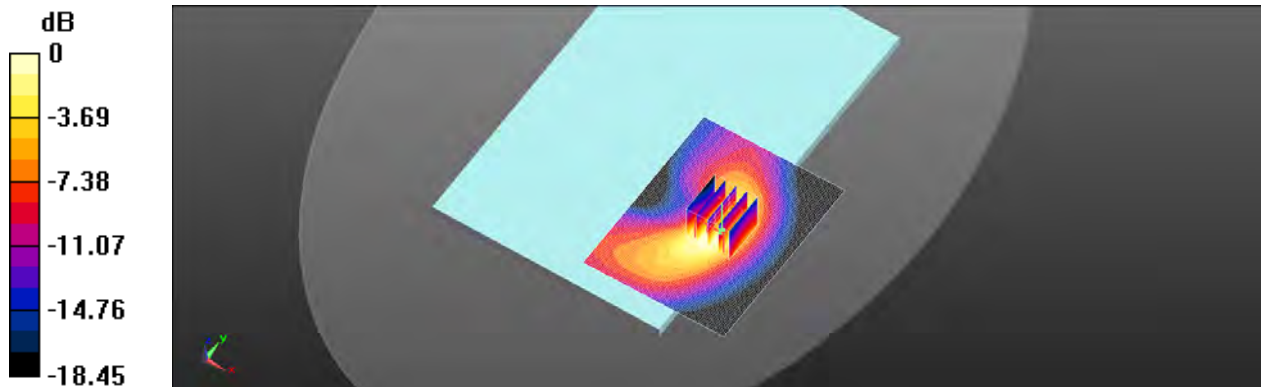
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.607 W/kg; SAR(10 g) = 0.326 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 59.6%

Maximum value of SAR (measured) = 0.820 W/kg



0 dB = 0.820 W/kg = -0.86 dBW/kg

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ID: 005

Report No. :TESA2207000200ES

WCDMA Band V_Body_Back Surface_CH 4183_16mm_Ant1

Communication System: WCDMA; Frequency: 836.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 837$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.493 W/kg

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

Reference Value = 6.018 V/m; Power Drift = 0.18 dB

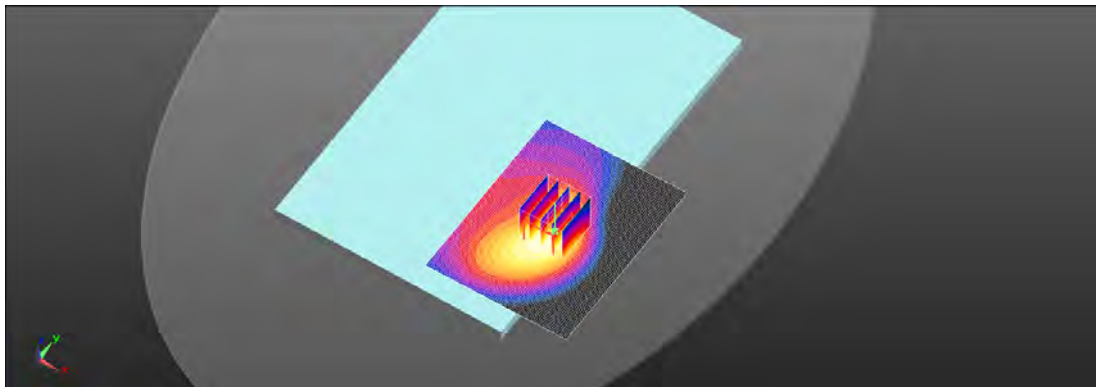
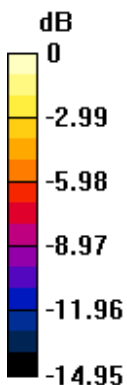
Peak SAR (extrapolated) = 0.643 W/kg

SAR(1 g) = 0.386 W/kg; SAR(10 g) = 0.236 W/kg

Smallest distance from peaks to all points 3 dB below = 12.9 mm

Ratio of SAR at M2 to SAR at M1 = 60.6%

Maximum value of SAR (measured) = 0.519 W/kg



0 dB = 0.519 W/kg = -2.85 dBW/kg

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ID: 006

Report No. :TESA2207000200ES

LTE Band 2 (20MHz)_Body_Back Surface_CH 18700_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 1860 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1860$ MHz; $\sigma = 1.403$ S/m; $\epsilon_r = 40.224$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.08 W/kg

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

Reference Value = 1.814 V/m; Power Drift = 0.12 dB

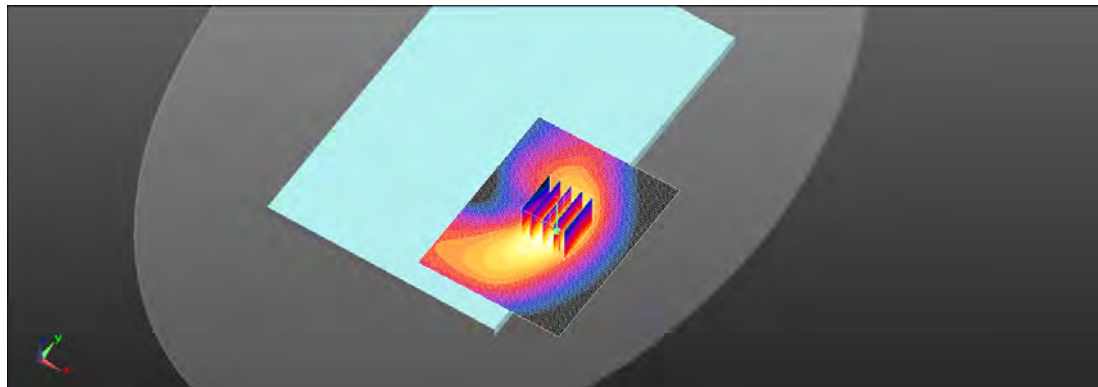
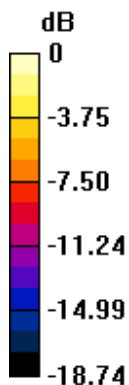
Peak SAR (extrapolated) = 1.46 W/kg

SAR(1 g) = 0.828 W/kg; SAR(10 g) = 0.446 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

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

Maximum value of SAR (measured) = 1.12 W/kg



0 dB = 1.12 W/kg = 0.51 dBW/kg

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ID: 007

Report No. :TESA2207000200ES

LTE Band 4 (20MHz)_Body_Back Surface_CH 20050_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 1720 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 40.359$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.659 W/kg

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

Reference Value = 7.496 V/m; Power Drift = 0.14 dB

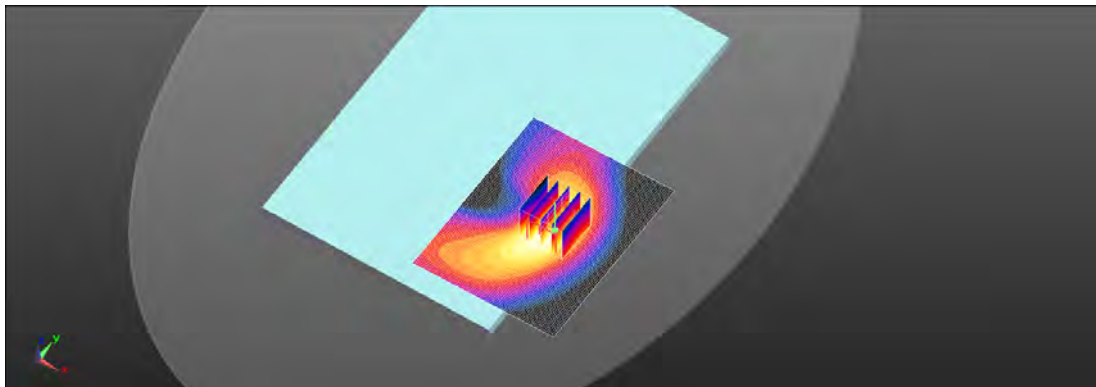
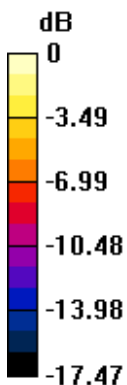
Peak SAR (extrapolated) = 0.876 W/kg

SAR(1 g) = 0.508 W/kg; SAR(10 g) = 0.277 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 61.2%

Maximum value of SAR (measured) = 0.666 W/kg



0 dB = 0.666 W/kg = -1.76 dBW/kg

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ID: 008

Report No. :TESA2207000200ES

LTE Band 5 (10MHz)_Body_Back Surface_CH 20525_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 836.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 836.5 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 41.021$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.313 W/kg

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

Reference Value = 7.538 V/m; Power Drift = 0.03 dB

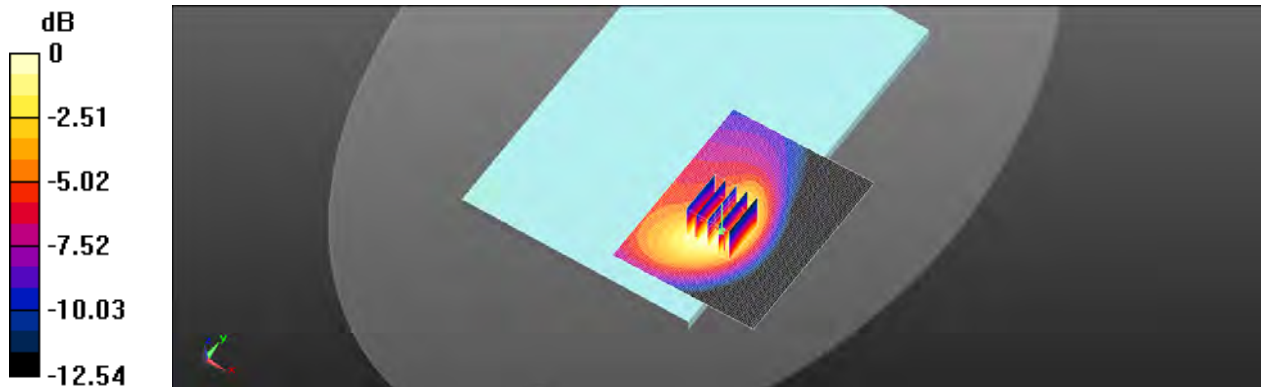
Peak SAR (extrapolated) = 0.387 W/kg

SAR(1 g) = 0.242 W/kg; SAR(10 g) = 0.152 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 62.9%

Maximum value of SAR (measured) = 0.315 W/kg



0 dB = 0.315 W/kg = -5.01 dBW/kg

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ID: 009

Report No. :TESA2207000200ES

LTE Band 12 (10MHz)_Body_Back Surface_CH 23060_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 704 MHz; Duty cycle= 1:1

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.882 \text{ S/m}$; $\epsilon_r = 41.627$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.73, 10.73, 10.73); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.326 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.049 V/m ; Power Drift = 0.09 dB

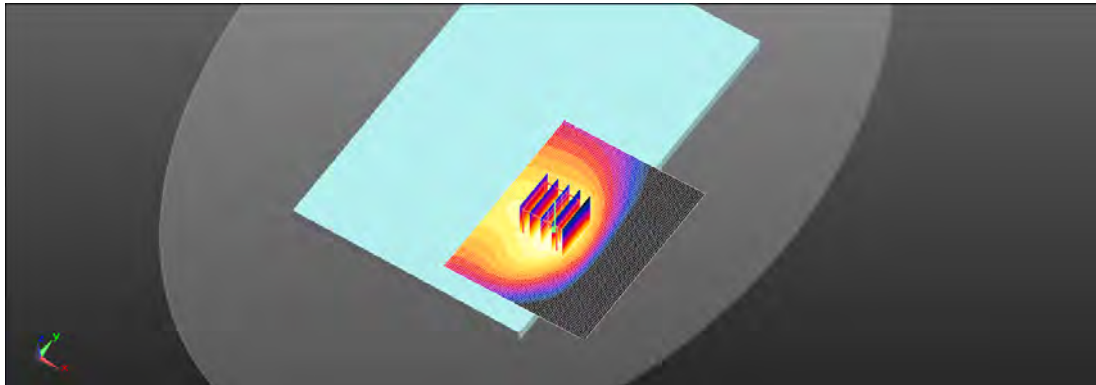
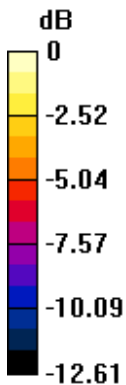
Peak SAR (extrapolated) = 0.398 W/kg

SAR(1 g) = 0.232 W/kg ; SAR(10 g) = 0.144 W/kg

Smallest distance from peaks to all points 3 dB below = 19.5 mm

Ratio of SAR at M2 to SAR at M1 = 65.7%

Maximum value of SAR (measured) = 0.312 W/kg



0 dB = 0.312 W/kg = -5.06 dBW/kg

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ID: 010

Report No. :TESA2207000200ES

LTE Band 13 (10MHz)_Body_Back Surface_CH 23230_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 782 MHz; Duty cycle= 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.889 \text{ S/m}$; $\epsilon_r = 41.232$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.73, 10.73, 10.73); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.335 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 7.535 V/m ; Power Drift = 0.09 dB

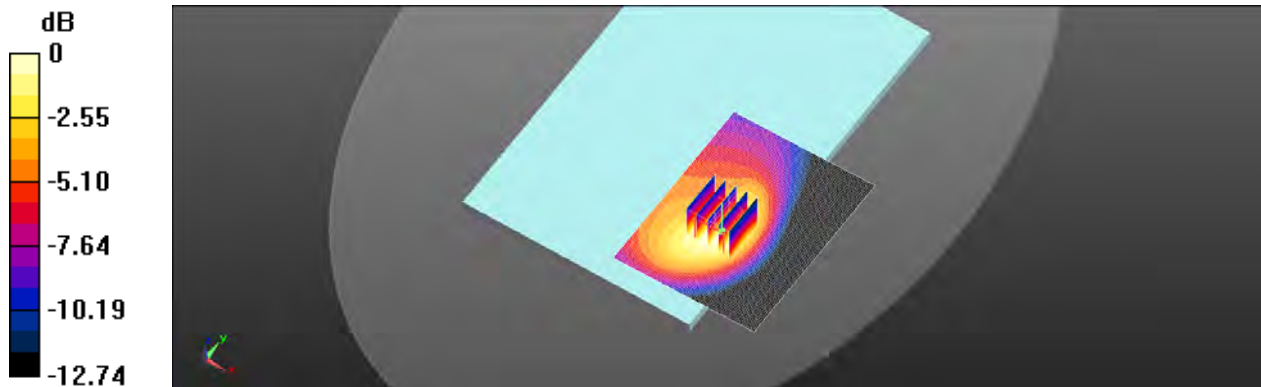
Peak SAR (extrapolated) = 0.412 W/kg

SAR(1 g) = 0.260 W/kg ; SAR(10 g) = 0.166 W/kg

Smallest distance from peaks to all points 3 dB below = 17.3 mm

Ratio of SAR at M2 to SAR at M1 = 63.7%

Maximum value of SAR (measured) = 0.336 W/kg



0 dB = 0.336 W/kg = -4.73 dBW/kg

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ID: 011

Report No. :TESA2207000200ES

LTE Band 25 (20MHz)_Body_Back Surface_CH 26365_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 1882.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1882.5 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 40.215$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.806 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 6.395 V/m ; Power Drift = 0.11 dB

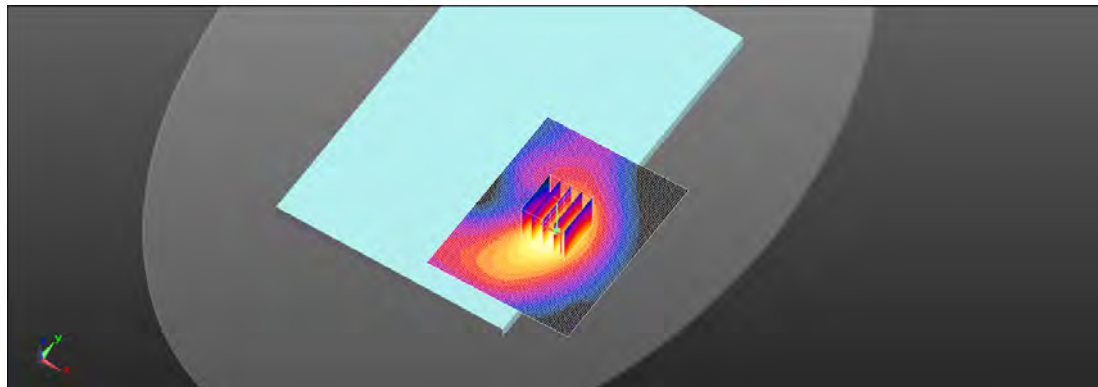
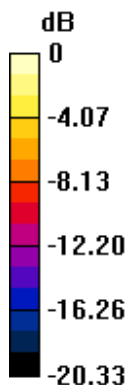
Peak SAR (extrapolated) = 1.06 W/kg

SAR(1 g) = 0.593 W/kg ; SAR(10 g) = 0.316 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.2%

Maximum value of SAR (measured) = 0.832 W/kg



0 dB = 0.832 W/kg = -0.80 dBW/kg

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ID: 012

Report No. :TESA2207000200ES

LTE Band 26 (15MHz)_Body_Back Surface_CH 26865_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 831.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 831.5 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 41.027$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.318 W/kg

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

Reference Value = 5.967 V/m; Power Drift = 0.15 dB

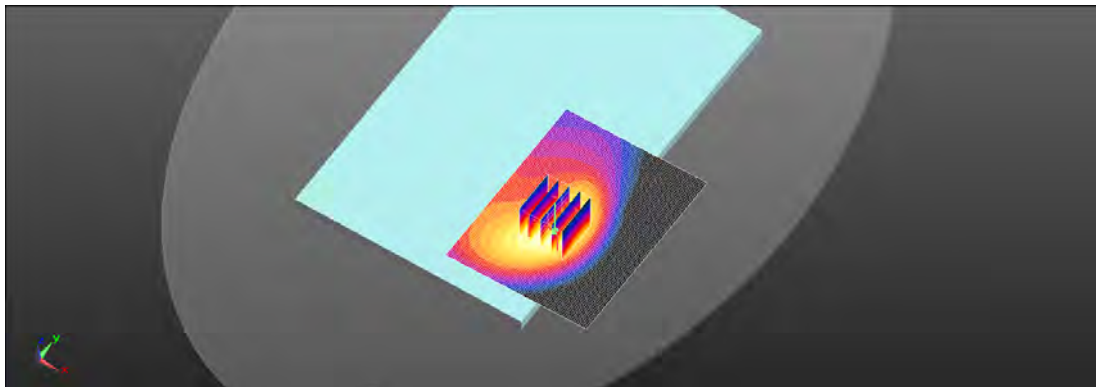
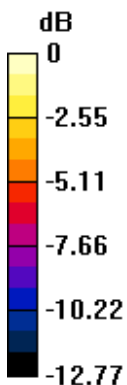
Peak SAR (extrapolated) = 0.396 W/kg

SAR(1 g) = 0.247 W/kg; SAR(10 g) = 0.155 W/kg

Smallest distance from peaks to all points 3 dB below = 15.8 mm

Ratio of SAR at M2 to SAR at M1 = 62.8%

Maximum value of SAR (measured) = 0.323 W/kg



0 dB = 0.323 W/kg = -4.91 dBW/kg

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ID: 013

Report No. :TESA2207000200ES

LTE Band 66 (20MHz)_Body_Back Surface_CH 132322_QPSK_1-0_16mm_Ant1

Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.372 \text{ S/m}$; $\epsilon_r = 40.307$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.741 W/kg

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

Reference Value = 8.102 V/m; Power Drift = 0.05 dB

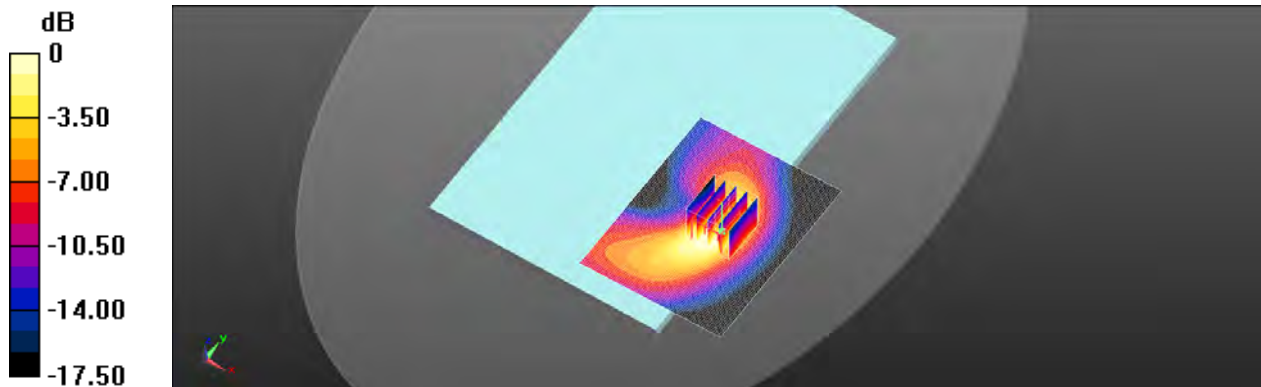
Peak SAR (extrapolated) = 0.992 W/kg

SAR(1 g) = 0.574 W/kg; SAR(10 g) = 0.313 W/kg

Smallest distance from peaks to all points 3 dB below = 9.3 mm

Ratio of SAR at M2 to SAR at M1 = 61.2%

Maximum value of SAR (measured) = 0.749 W/kg



0 dB = 0.749 W/kg = -1.25 dBW/kg

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ID: 014

Report No. :TESA2207000200ES

LTE Band 7 (20MHz)_Body_Back Surface_CH 20850_QPSK_1-0_12mm_Ant2

Communication System: LTE; Frequency: 2510 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.882$ S/m; $\epsilon_r = 39.574$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.04 W/kg

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

Reference Value = 5.111 V/m; Power Drift = 0.11 dB

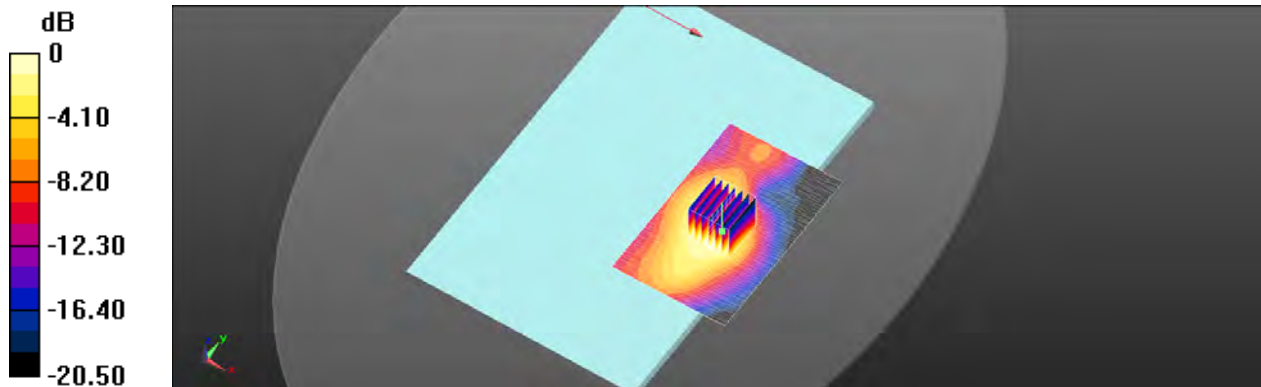
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.726 W/kg; SAR(10 g) = 0.399 W/kg

Smallest distance from peaks to all points 3 dB below = 13.4 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 1.03 W/kg



0 dB = 1.03 W/kg = 0.14 dBW/kg

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ID: 015

Report No. :TESA2207000200ES

LTE Band 38 (20MHz)_Body_Back Surface_CH 37850_QPSK_1-0_12mm_Ant2

Communication System: LTE; Frequency: 2580 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2580$ MHz; $\sigma = 1.955$ S/m; $\epsilon_r = 39.511$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.626 W/kg

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

Reference Value = 2.689 V/m; Power Drift = 0.13 dB

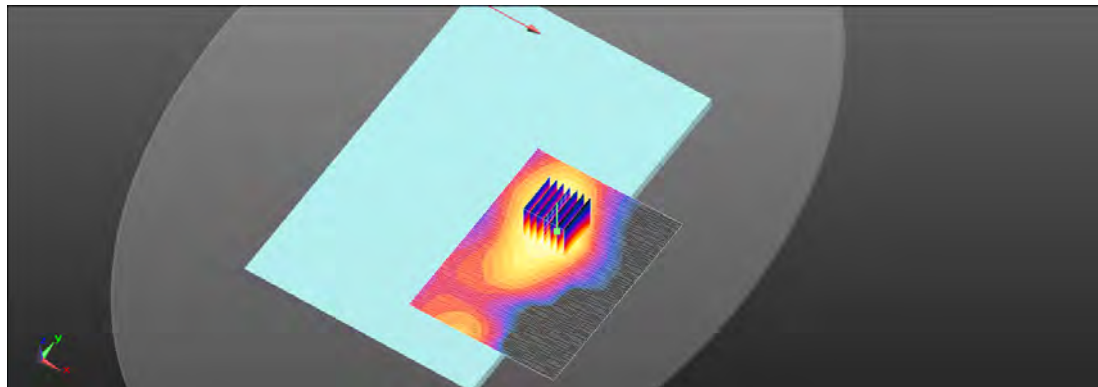
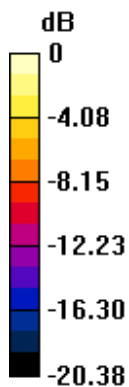
Peak SAR (extrapolated) = 0.842 W/kg

SAR(1 g) = 0.400 W/kg; SAR(10 g) = 0.214 W/kg

Smallest distance from peaks to all points 3 dB below = 12.1 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 0.599 W/kg



0 dB = 0.599 W/kg = -2.23 dBW/kg

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ID: 016

Report No. :TESA2207000200ES

LTE Band 41 (20MHz)_Body_Back Surface_CH 40620_QPSK_1-0_12mm_Ant2

Communication System: LTE; Frequency: 2593 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.97$ S/m; $\epsilon_r = 39.477$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.730 W/kg

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

Reference Value = 2.948 V/m; Power Drift = 0.17 dB

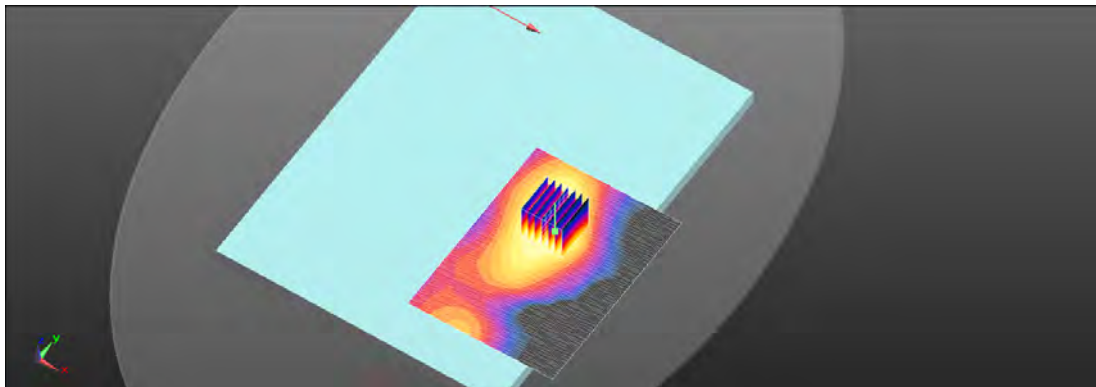
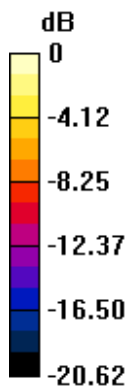
Peak SAR (extrapolated) = 0.988 W/kg

SAR(1 g) = 0.474 W/kg; SAR(10 g) = 0.253 W/kg

Smallest distance from peaks to all points 3 dB below = 11.2 mm

Ratio of SAR at M2 to SAR at M1 = 46.1%

Maximum value of SAR (measured) = 0.701 W/kg



0 dB = 0.701 W/kg = -1.54 dBW/kg

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ID: 017

Report No. :TESA2207000200ES

GPRS 850_Body_Back Surface_CH 190_0mm_Ant1

Communication System: GPRS (1Dn4Up); Frequency: 836.6 MHz; Duty cycle= 1:2

Medium parameters used: $f = 837$ MHz; $\sigma = 0.898$ S/m; $\epsilon_r = 41.02$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.602 W/kg

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

Reference Value = 2.255 V/m; Power Drift = 0.12 dB

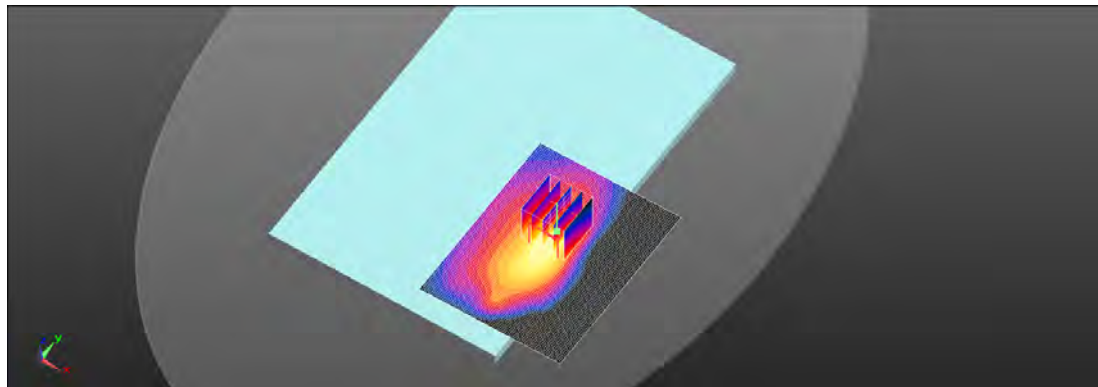
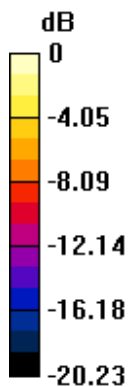
Peak SAR (extrapolated) = 1.55 W/kg

SAR(1 g) = 0.590 W/kg; SAR(10 g) = 0.267 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 45.2%

Maximum value of SAR (measured) = 0.823 W/kg



0 dB = 0.823 W/kg = -0.85 dBW/kg

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ID: 018

Report No. :TESA2207000200ES

GPRS 1900_Body_Back Surface_CH 512_0mm_Ant1

Communication System: GPRS (1Dn4Up); Frequency: 1850.2 MHz; Duty cycle= 1:2

Medium parameters used: $f = 1850.2 \text{ MHz}$; $\sigma = 1.402 \text{ S/m}$; $\epsilon_r = 40.243$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x101x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.794 W/kg

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

Reference Value = 1.236 V/m; Power Drift = -0.19 dB

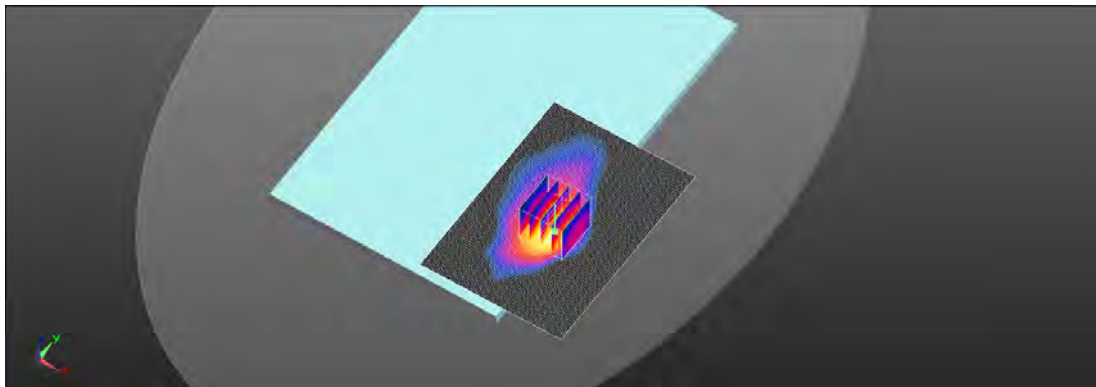
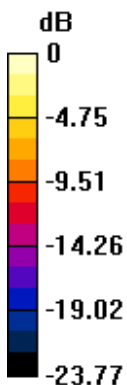
Peak SAR (extrapolated) = 1.40 W/kg

SAR(1 g) = 0.609 W/kg; SAR(10 g) = 0.253 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 46.3%

Maximum value of SAR (measured) = 0.984 W/kg



0 dB = 0.984 W/kg = -0.07 dBW/kg

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ID: 019

Report No. :TESA2207000200ES

WCDMA Band II_Body_Back Surface_CH 9262_0mm_Ant1

Communication System: WCDMA; Frequency: 1852.4 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1852.4 \text{ MHz}$; $\sigma = 1.402 \text{ S/m}$; $\epsilon_r = 40.236$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.19 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.256 V/m ; Power Drift = 0.01 dB

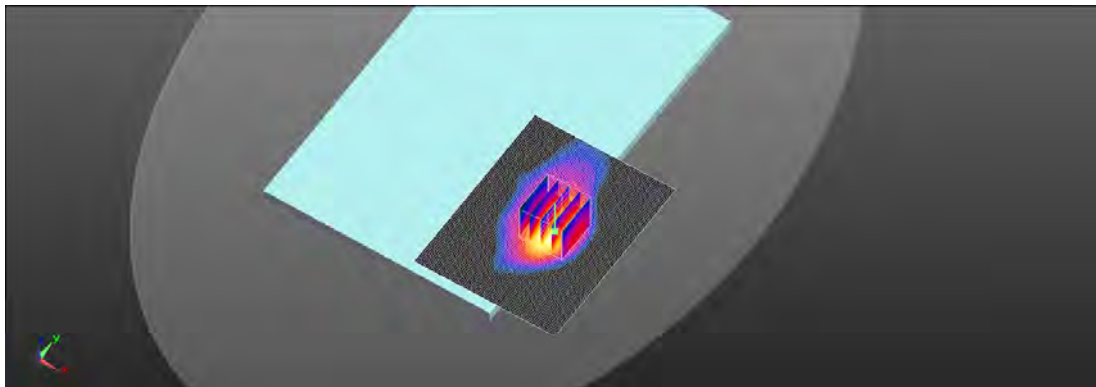
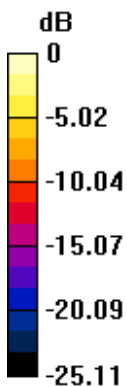
Peak SAR (extrapolated) = 1.53 W/kg

SAR(1 g) = 0.654 W/kg ; SAR(10 g) = 0.269 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 43%

Maximum value of SAR (measured) = 1.16 W/kg



0 dB = $1.16 \text{ W/kg} = 0.63 \text{ dBW/kg}$

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ID: 020

Report No. :TESA2207000200ES

WCDMA Band IV_Body_Back Surface_CH 1513_0mm_Ant1

Communication System: WCDMA; Frequency: 1752.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1753$ MHz; $\sigma = 1.377$ S/m; $\epsilon_r = 40.29$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.660 W/kg

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

Reference Value = 3.254 V/m; Power Drift = 0.02 dB

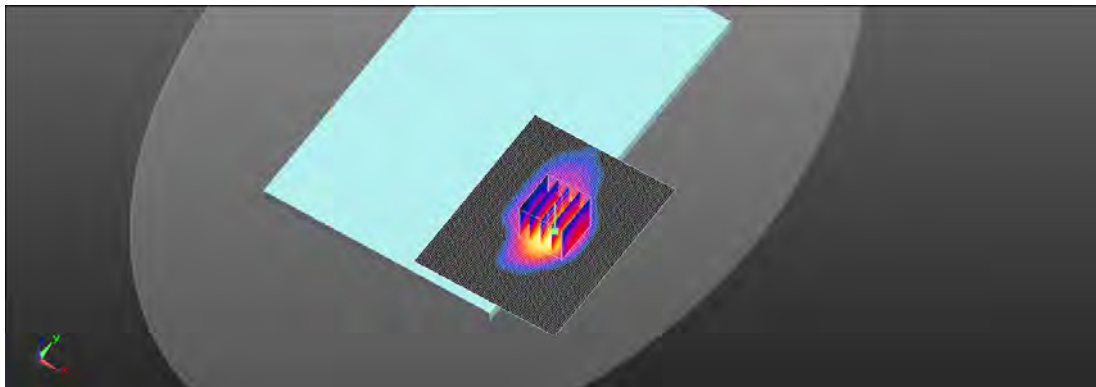
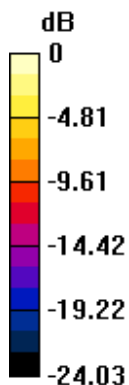
Peak SAR (extrapolated) = 0.843 W/kg

SAR(1 g) = 0.362 W/kg; SAR(10 g) = 0.151 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 42.9%

Maximum value of SAR (measured) = 0.641 W/kg



0 dB = 0.641 W/kg = -1.93 dBW/kg

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ID: 021

Report No. :TESA2207000200ES

WCDMA Band V_Body_Back Surface_CH 4233_0mm_Ant1

Communication System: WCDMA; Frequency: 846.6 MHz; Duty cycle= 1:1

Medium parameters used: $f = 847$ MHz; $\sigma = 0.908$ S/m; $\epsilon_r = 40.994$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.779 W/kg

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

Reference Value = 1.493 V/m; Power Drift = 0.11 dB

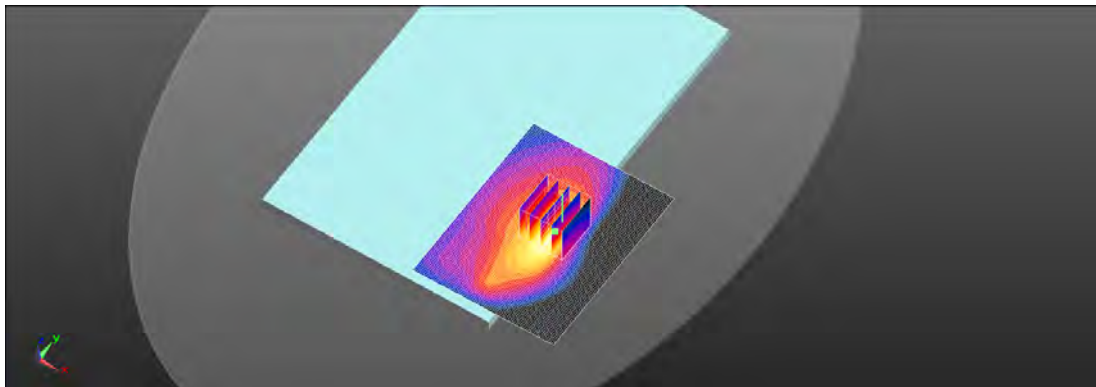
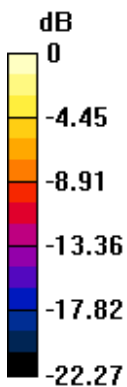
Peak SAR (extrapolated) = 1.50 W/kg

SAR(1 g) = 0.547 W/kg; SAR(10 g) = 0.249 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 45.8%

Maximum value of SAR (measured) = 0.998 W/kg



0 dB = 0.998 W/kg = -0.01 dBW/kg

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ID: 022

Report No. :TESA2207000200ES

LTE Band 2 (20MHz)_Body_Back Surface_CH 18900_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 1880 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.404 \text{ S/m}$; $\epsilon_r = 40.22$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.12 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.214 V/m ; Power Drift = 0.12 dB

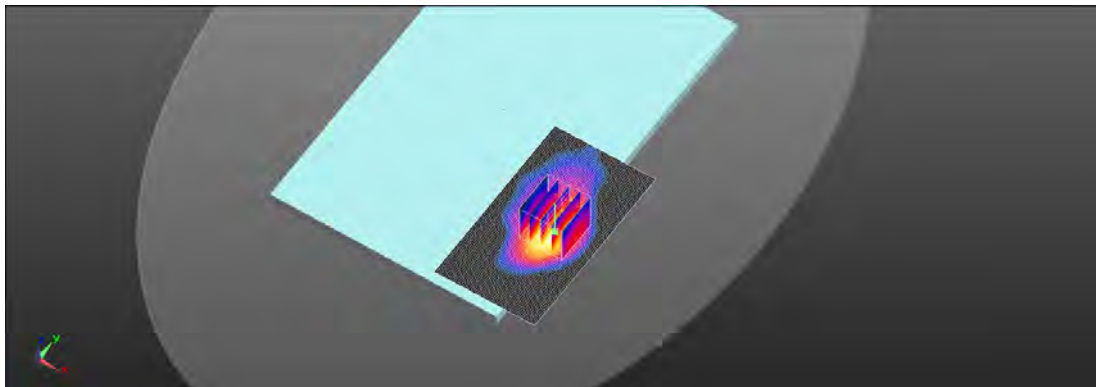
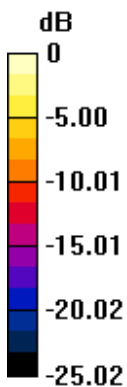
Peak SAR (extrapolated) = 1.43 W/kg

SAR(1 g) = 0.587 W/kg ; SAR(10 g) = 0.234 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.5%

Maximum value of SAR (measured) = 1.09 W/kg



0 dB = $1.09 \text{ W/kg} = 0.37 \text{ dBW/kg}$

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ID: 023

Report No. :TESA2207000200ES

LTE Band 4 (20MHz)_Body_Back Surface_CH 20050_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 1720 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1720$ MHz; $\sigma = 1.358$ S/m; $\epsilon_r = 40.359$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.47 W/kg

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

Reference Value = 8.332 V/m; Power Drift = 0.17 dB

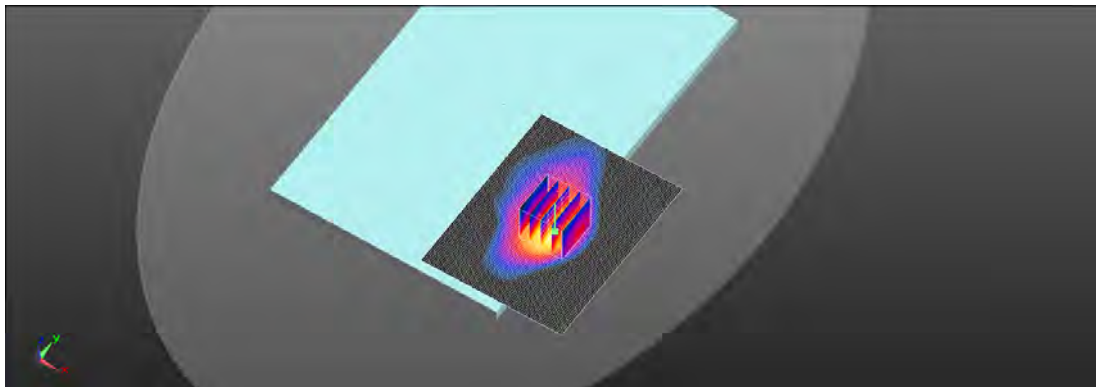
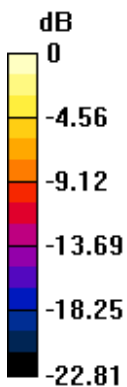
Peak SAR (extrapolated) = 2.43 W/kg

SAR(1 g) = 1.08 W/kg; SAR(10 g) = 0.463 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.7%

Maximum value of SAR (measured) = 1.80 W/kg



0 dB = 1.80 W/kg = 2.55 dBW/kg

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ID: 024

Report No. :TESA2207000200ES

LTE Band 5 (10MHz)_Body_Back Surface_CH 20450_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 829 MHz; Duty cycle= 1:1

Medium parameters used: $f = 829$ MHz; $\sigma = 0.896$ S/m; $\epsilon_r = 41.038$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.735 W/kg

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

Reference Value = 2.574 V/m; Power Drift = 0.18 dB

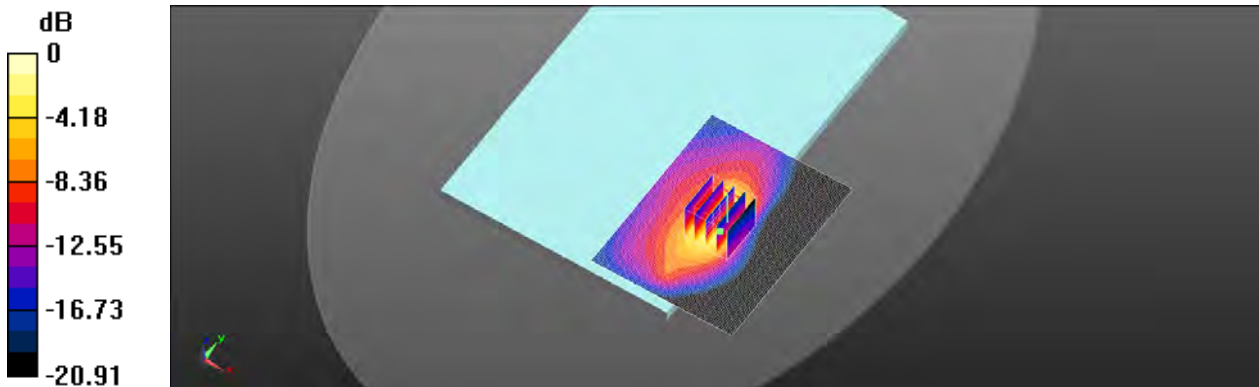
Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.771 W/kg; SAR(10 g) = 0.353 W/kg

Smallest distance from peaks to all points 3 dB below = 8.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 1.37 W/kg



0 dB = 1.37 W/kg = 1.37 dBW/kg

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ID: 025

Report No. :TESA2207000200ES

LTE Band 12 (10MHz)_Body_Back Surface_CH 23060_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 704 MHz; Duty cycle= 1:1

Medium parameters used: $f = 704 \text{ MHz}$; $\sigma = 0.882 \text{ S/m}$; $\epsilon_r = 41.627$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.73, 10.73, 10.73); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 1.14 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 3.636 V/m ; Power Drift = 0.13 dB

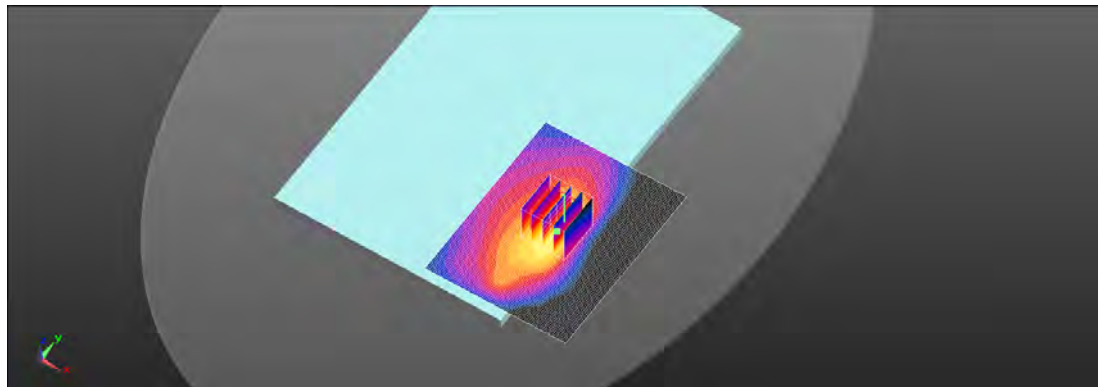
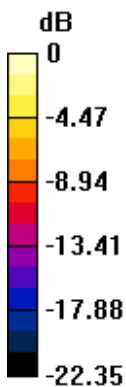
Peak SAR (extrapolated) = 3.63 W/kg

SAR(1 g) = 1.17 W/kg ; SAR(10 g) = 0.528 W/kg

Smallest distance from peaks to all points 3 dB below = 9.8 mm

Ratio of SAR at M2 to SAR at M1 = 47.8%

Maximum value of SAR (measured) = 2.28 W/kg



0 dB = $2.28 \text{ W/kg} = 3.58 \text{ dBW/kg}$

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ID: 026

Report No. :TESA2207000200ES

LTE Band 13 (10MHz)_Body_Back Surface_CH 23230_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 782 MHz; Duty cycle= 1:1

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.889 \text{ S/m}$; $\epsilon_r = 41.232$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.73, 10.73, 10.73); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.947 W/kg

Zoom Scan (5x5x7)/Cube 0: Measurement grid: $dx=8\text{mm}$, $dy=8\text{mm}$, $dz=5\text{mm}$

Reference Value = 4.085 V/m ; Power Drift = 0.17 dB

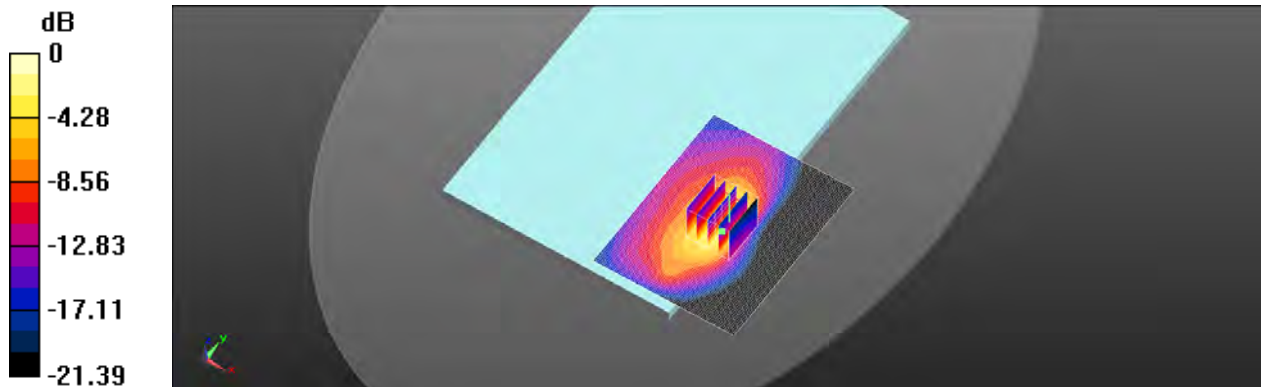
Peak SAR (extrapolated) = 2.83 W/kg

SAR(1 g) = 1.12 W/kg ; SAR(10 g) = 0.552 W/kg

Smallest distance from peaks to all points 3 dB below = 8.7 mm

Ratio of SAR at M2 to SAR at M1 = 47.1%

Maximum value of SAR (measured) = 1.73 W/kg



0 dB = $1.73 \text{ W/kg} = 2.37 \text{ dBW/kg}$

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ID: 027

Report No. :TESA2207000200ES

LTE Band 25 (20MHz)_Body_Back Surface_CH 26365_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 1882.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1882.5 \text{ MHz}$; $\sigma = 1.405 \text{ S/m}$; $\epsilon_r = 40.215$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.895 W/kg

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

Reference Value = 2.143 V/m; Power Drift = 0.11 dB

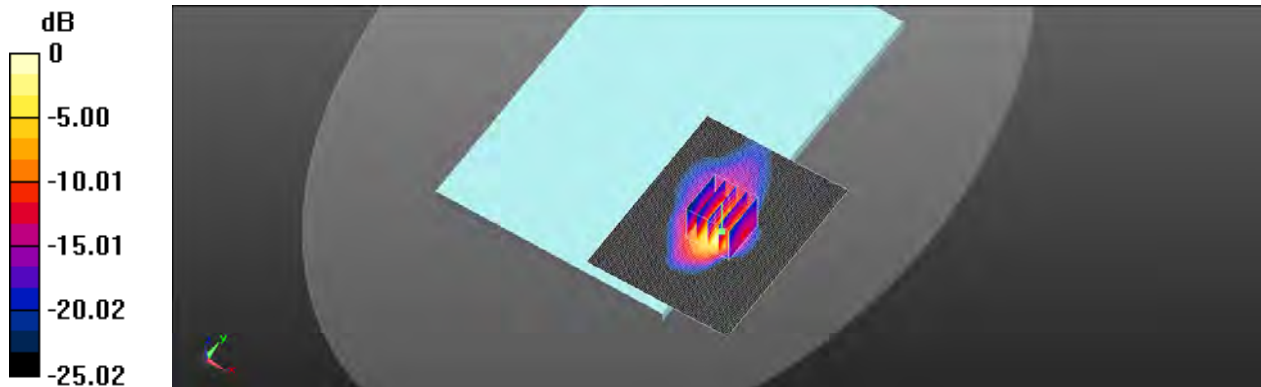
Peak SAR (extrapolated) = 1.52 W/kg

SAR(1 g) = 0.645 W/kg; SAR(10 g) = 0.265 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.8%

Maximum value of SAR (measured) = 1.08 W/kg



0 dB = 1.08 W/kg = 0.33 dBW/kg

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ID: 028

Report No. :TESA2207000200ES

LTE Band 26 (15MHz)_Body_Back Surface_CH 26865_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 831.5 MHz; Duty cycle= 1:1

Medium parameters used: $f = 831.5 \text{ MHz}$; $\sigma = 0.897 \text{ S/m}$; $\epsilon_r = 41.027$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.630 W/kg

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

Reference Value = 2.431 V/m; Power Drift = 0.14 dB

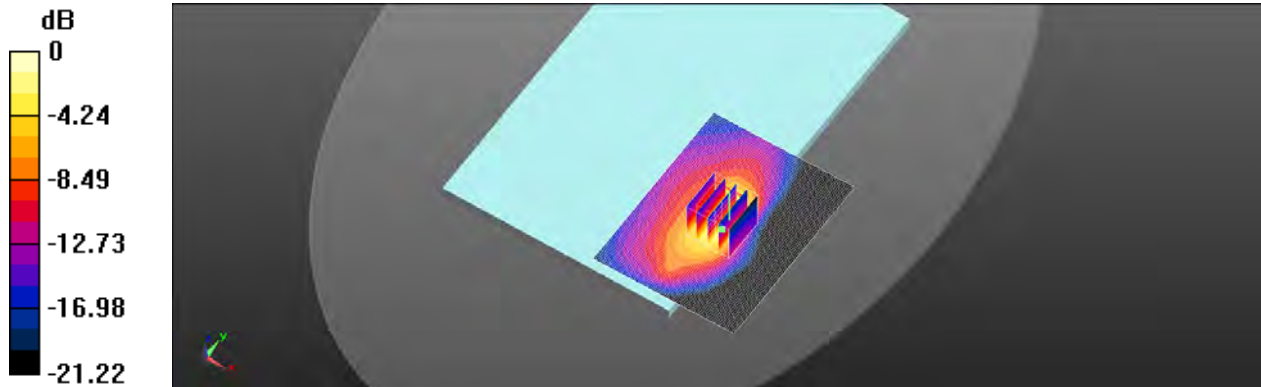
Peak SAR (extrapolated) = 1.88 W/kg

SAR(1 g) = 0.663 W/kg; SAR(10 g) = 0.304 W/kg

Smallest distance from peaks to all points 3 dB below = 8.6 mm

Ratio of SAR at M2 to SAR at M1 = 47.9%

Maximum value of SAR (measured) = 1.18 W/kg



0 dB = 1.18 W/kg = 0.71 dBW/kg

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ID: 029

Report No. :TESA2207000200ES

LTE Band 66 (20MHz)_Body_Back Surface_CH 132322_QPSK_1-0_0mm_Ant1

Communication System: LTE; Frequency: 1745 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.372 \text{ S/m}$; $\epsilon_r = 40.307$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 1.13 W/kg

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

Reference Value = 6.214 V/m; Power Drift = 0.19 dB

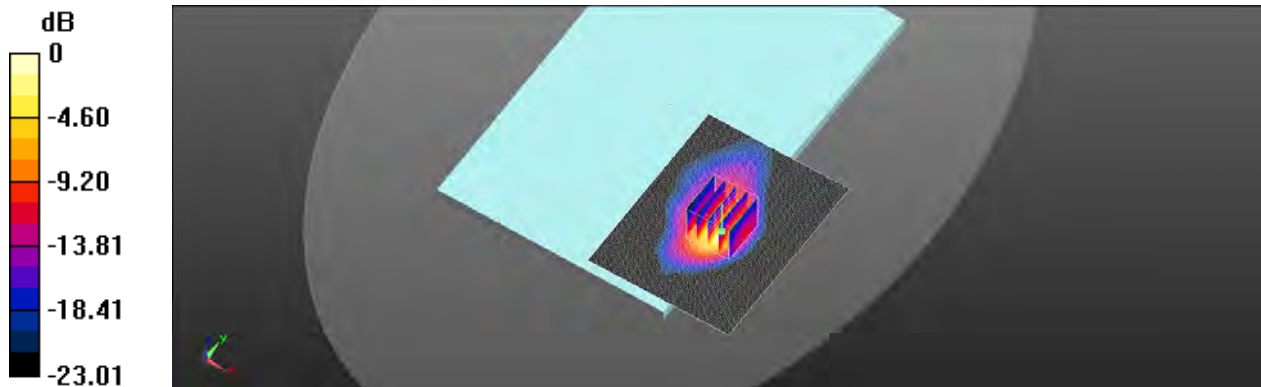
Peak SAR (extrapolated) = 1.90 W/kg

SAR(1 g) = 0.834 W/kg; SAR(10 g) = 0.354 W/kg

Smallest distance from peaks to all points 3 dB below = 8.4 mm

Ratio of SAR at M2 to SAR at M1 = 44.4%

Maximum value of SAR (measured) = 1.40 W/kg



0 dB = 1.40 W/kg = 1.46 dBW/kg

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ID: 030

Report No. :TESA2207000200ES

LTE Band 7 (20MHz)_Body_Back Surface_CH 20850_QPSK_1-0_0mm_Ant2

Communication System: LTE; Frequency: 2510 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2510$ MHz; $\sigma = 1.88$ S/m; $\epsilon_r = 39.593$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x111x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.928 W/kg

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

Reference Value = 5.215 V/m; Power Drift = 0.11 dB

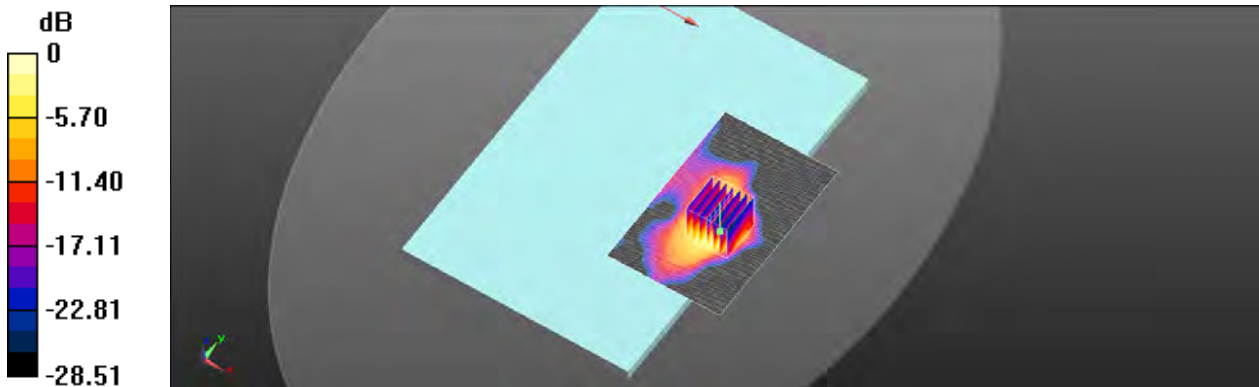
Peak SAR (extrapolated) = 1.68 W/kg

SAR(1 g) = 0.549 W/kg; SAR(10 g) = 0.222 W/kg

Smallest distance from peaks to all points 3 dB below = 6.6 mm

Ratio of SAR at M2 to SAR at M1 = 38.2%

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.25 dBW/kg

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ID: 031

Report No. :TESA2207000200ES

LTE Band 38 (20MHz)_Body_Back Surface_CH 38150_QPSK_1-0_0mm_Ant2

Communication System: LTE; Frequency: 2610 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2610$ MHz; $\sigma = 1.989$ S/m; $\epsilon_r = 39.451$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.02 W/kg

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

Reference Value = 4.563 V/m; Power Drift = 0.19 dB

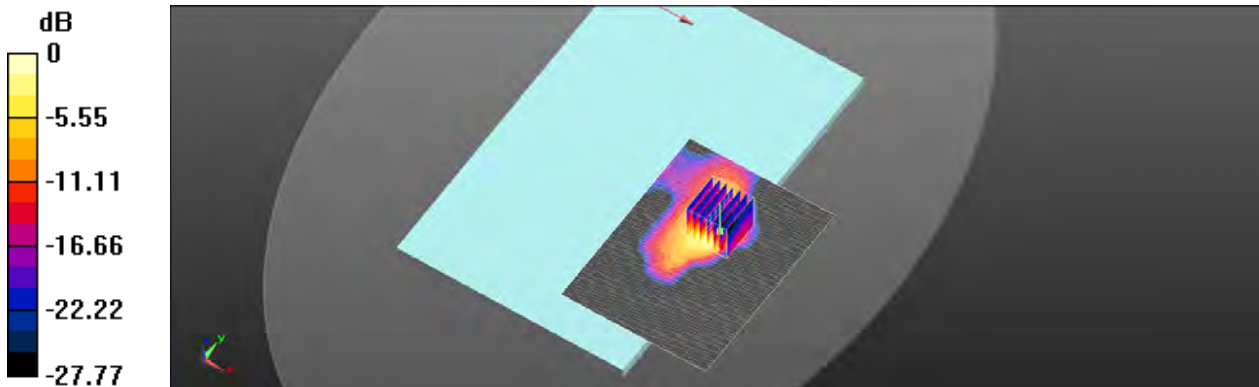
Peak SAR (extrapolated) = 1.71 W/kg

SAR(1 g) = 0.544 W/kg; SAR(10 g) = 0.213 W/kg

Smallest distance from peaks to all points 3 dB below = 6.7 mm

Ratio of SAR at M2 to SAR at M1 = 42.5%

Maximum value of SAR (measured) = 1.01 W/kg



0 dB = 1.01 W/kg = 0.03 dBW/kg

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ID: 032

Report No. :TESA2207000200ES

LTE Band 41 (20MHz)_Body_Back Surface_CH 39750_QPSK_1-0_0mm_Ant2

Communication System: LTE; Frequency: 2506 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2506 \text{ MHz}$; $\sigma = 1.876 \text{ S/m}$; $\epsilon_r = 39.603$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x121x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 1.31 W/kg

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

Reference Value = 4.923 V/m; Power Drift = 0.16 dB

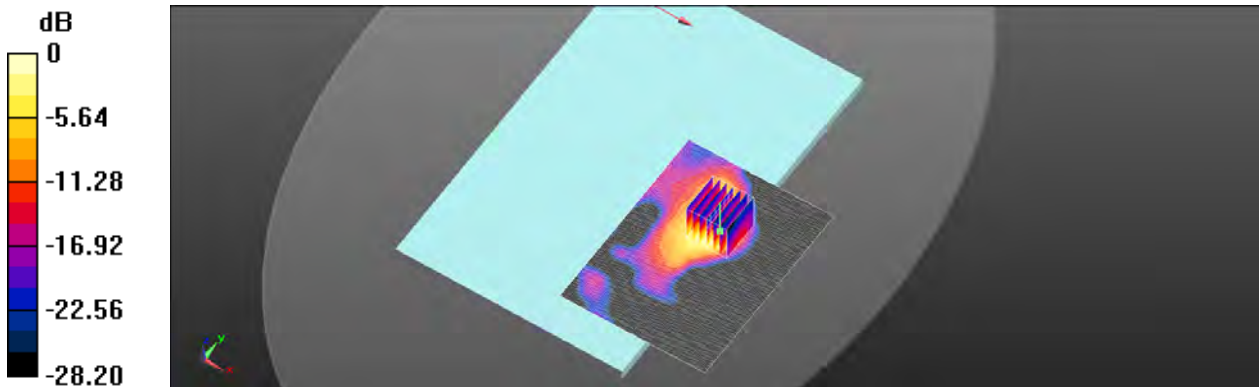
Peak SAR (extrapolated) = 2.34 W/kg

SAR(1 g) = 0.776 W/kg; SAR(10 g) = 0.323 W/kg

Smallest distance from peaks to all points 3 dB below = 7 mm

Ratio of SAR at M2 to SAR at M1 = 44.9%

Maximum value of SAR (measured) = 1.38 W/kg



0 dB = 1.38 W/kg = 1.40 dBW/kg

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ID: 033

Report No. :TESA2207000200ES

WLAN 802.11b_Body_Back Surface_CH 11_0mm_Ant4

Communication System: WLAN; Frequency: 2462 MHz; Duty cycle= 1:1.005

Medium parameters used: $f = 2462$ MHz; $\sigma = 1.828$ S/m; $\epsilon_r = 39.65$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.779 W/kg

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

Reference Value = 1.234 V/m; Power Drift = 0.11 dB

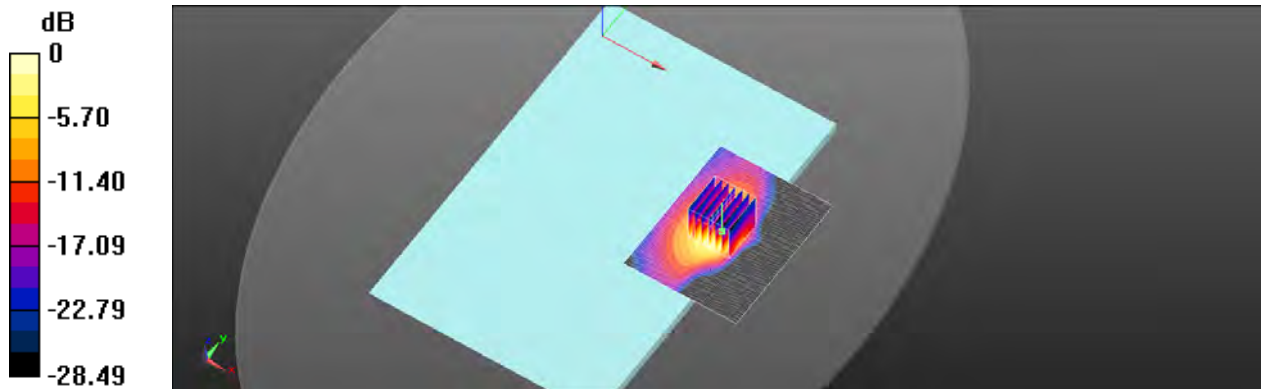
Peak SAR (extrapolated) = 1.37 W/kg

SAR(1 g) = 0.478 W/kg; SAR(10 g) = 0.192 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 45%

Maximum value of SAR (measured) = 0.945 W/kg



0 dB = 0.945 W/kg = -0.42 dBW/kg

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ID: 034

Report No. :TESA2207000200ES

Bluetooth(GFSK)_Body_Back Surface_CH 78_14mm_Ant4

Communication System: Bluetooth; Frequency: 2480 MHz; Duty cycle= 1:1.307

Medium parameters used: $f = 2480 \text{ MHz}$; $\sigma = 1.848 \text{ S/m}$; $\epsilon_r = 39.642$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0343 W/kg

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

Reference Value = 6.667 V/m; Power Drift = -0.01 dB

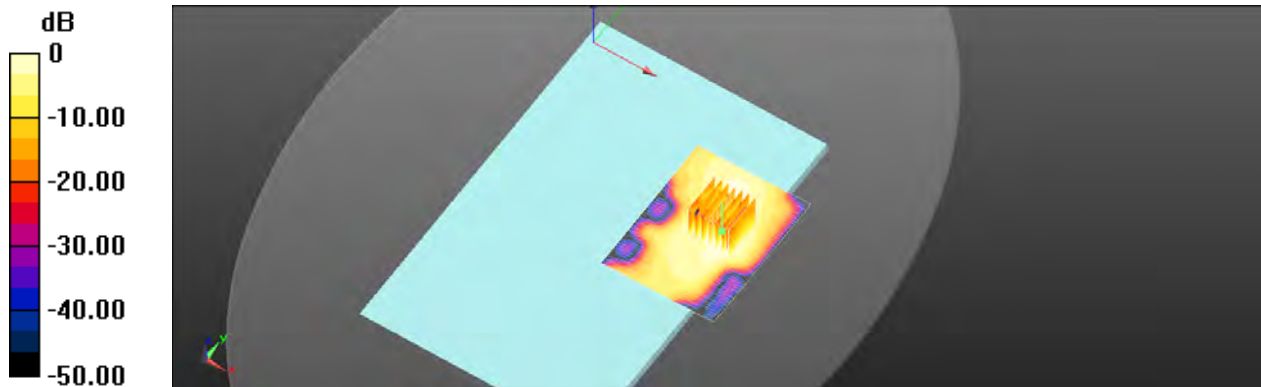
Peak SAR (extrapolated) = 0.0500 W/kg

SAR(1 g) = 0.023 W/kg; SAR(10 g) = 0.011 W/kg

Smallest distance from peaks to all points 3 dB below = 7.8 mm

Ratio of SAR at M2 to SAR at M1 = 46.5%

Maximum value of SAR (measured) = 0.0352 W/kg



0 dB = 0.0352 W/kg = -14.53 dBW/kg

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ID: 035

Report No. :TESA2207000200ES

WLAN 802.11a 5.2G_Body_Top Edge_CH 48_15mm_Ant4

Communication System: WLAN; Frequency: 5240 MHz; Duty cycle= 1:1.026

Medium parameters used: $f = 5240$ MHz; $\sigma = 4.751$ S/m; $\epsilon_r = 36.478$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 0.543 W/kg

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

Reference Value = 3.128 V/m; Power Drift = 0.11 dB

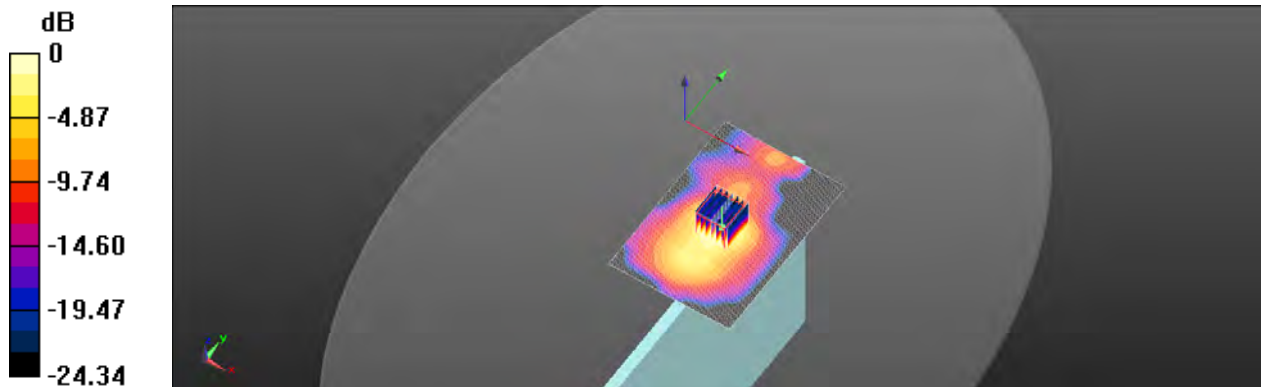
Peak SAR (extrapolated) = 0.984 W/kg

SAR(1 g) = 0.295 W/kg; SAR(10 g) = 0.111 W/kg

Smallest distance from peaks to all points 3 dB below = 11.1 mm

Ratio of SAR at M2 to SAR at M1 = 57.4%

Maximum value of SAR (measured) = 0.528 W/kg



0 dB = 0.528 W/kg = -2.77 dBW/kg

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ID: 036

Report No. :TESA2207000200ES

WLAN 802.11a 5.3G_Body_Top Edge_CH 60_15mm_Ant4

Communication System: WLAN; Frequency: 5300 MHz; Duty cycle= 1:1.026

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.814 \text{ S/m}$; $\epsilon_r = 36.406$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C ; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x131x1): Interpolated grid: $dx=10 \text{ mm}$, $dy=10 \text{ mm}$

Maximum value of SAR (interpolated) = 0.551 W/kg

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

Reference Value = 2.810 V/m ; Power Drift = 0.13 dB

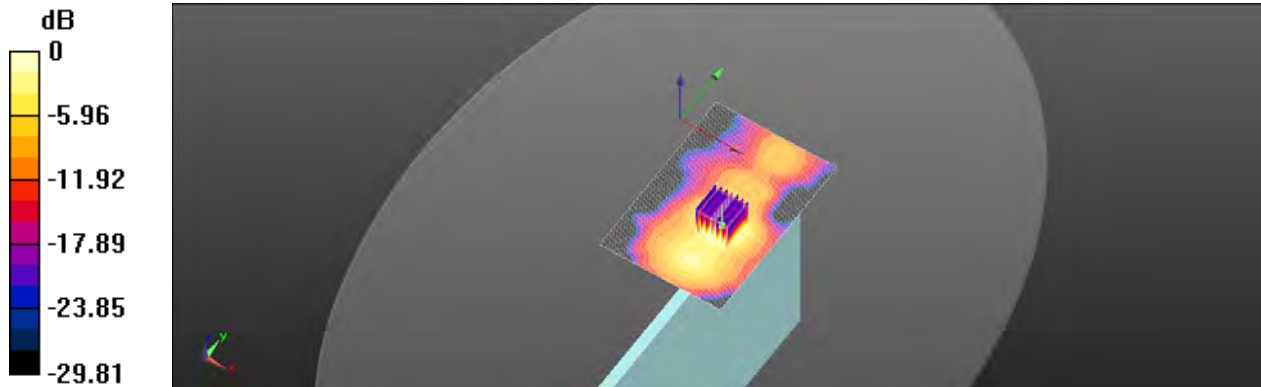
Peak SAR (extrapolated) = 1.04 W/kg

SAR(1 g) = 0.295 W/kg ; SAR(10 g) = 0.111 W/kg

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

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

Maximum value of SAR (measured) = 0.542 W/kg



0 dB = 0.542 W/kg = -2.66 dBW/kg

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ID: 037

Report No. :TESA2207000200ES

WLAN 802.11n(40M) 5.6G_Body_Top Edge_CH 134_15mm_Ant4

Communication System: WLAN; Frequency: 5670 MHz; Duty cycle= 1:1.041

Medium parameters used: $f = 5670$ MHz; $\sigma = 5.198$ S/m; $\epsilon_r = 35.93$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.14 W/kg

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

Reference Value = 3.075 V/m; Power Drift = 0.11 dB

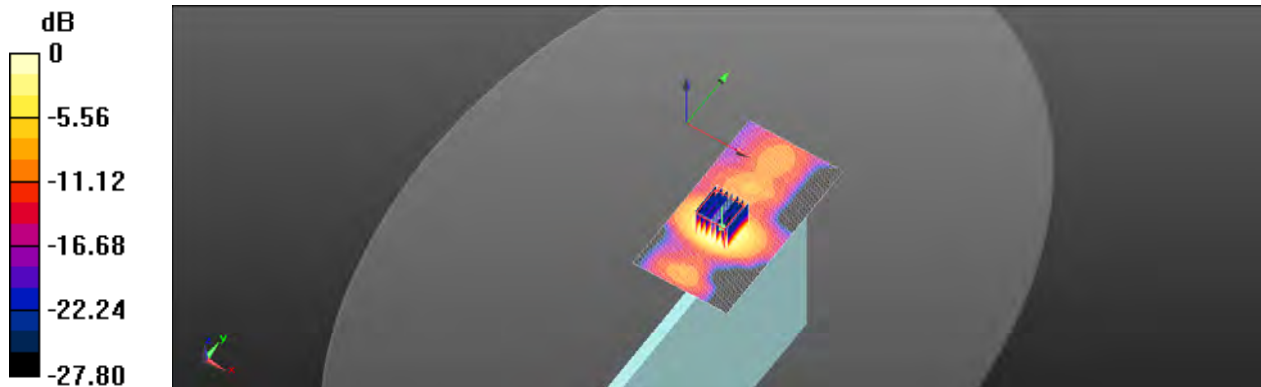
Peak SAR (extrapolated) = 2.17 W/kg

SAR(1 g) = 0.588 W/kg; SAR(10 g) = 0.212 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.2%

Maximum value of SAR (measured) = 1.10 W/kg



0 dB = 1.10 W/kg = 0.43 dBW/kg

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ID: 038

Report No. :TESA2207000200ES

WLAN 802.11n(40M) 5.8G_Body_Top Edge_CH 151_15mm_Ant4

Communication System: WLAN; Frequency: 5755 MHz; Duty cycle= 1:1.041

Medium parameters used: $f = 5755$ MHz; $\sigma = 5.285$ S/m; $\epsilon_r = 35.843$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.10 W/kg

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

Reference Value = 2.566 V/m; Power Drift = 0.14 dB

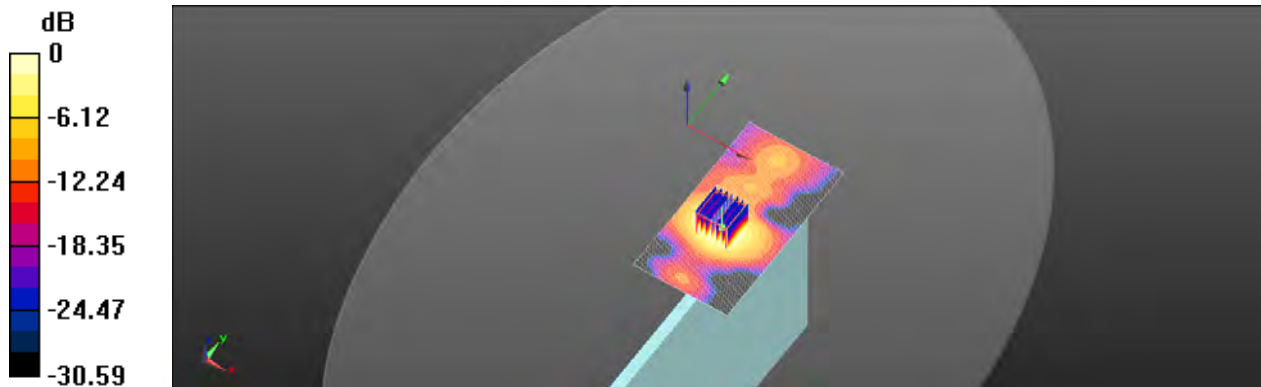
Peak SAR (extrapolated) = 2.13 W/kg

SAR(1 g) = 0.562 W/kg; SAR(10 g) = 0.204 W/kg

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

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

Maximum value of SAR (measured) = 1.07 W/kg



0 dB = 1.07 W/kg = 0.29 dBW/kg

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ID: 039

Report No. :TESA2207000200ES

Bluetooth(GFSK)_Body_Back_Surface_CH 39_0mm_Ant4

Communication System: Bluetooth; Frequency: 2441 MHz; Duty cycle= 1:1.307

Medium parameters used: $f = 2441$ MHz; $\sigma = 1.807$ S/m; $\epsilon_r = 39.689$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.210 W/kg

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

Reference Value = 2.352 V/m; Power Drift = 0.01 dB

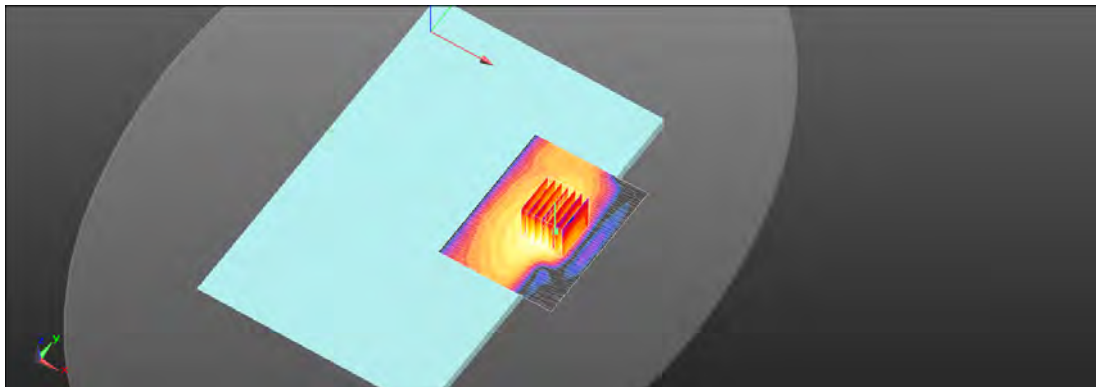
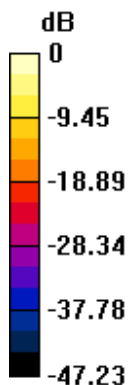
Peak SAR (extrapolated) = 0.316 W/kg

SAR(1 g) = 0.124 W/kg; SAR(10 g) = 0.059 W/kg

Smallest distance from peaks to all points 3 dB below = 6.4 mm

Ratio of SAR at M2 to SAR at M1 = 35.3%

Maximum value of SAR (measured) = 0.226 W/kg



0 dB = 0.226 W/kg = -6.53 dBW/kg

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ID: 040

Report No. :TESA2207000200ES

WLAN 802.11a 5.2G_Body_Top Edge_CH 36_0mm_Ant4

Communication System: WLAN; Frequency: 5180 MHz; Duty cycle= 1:1.026

Medium parameters used: $f = 5180$ MHz; $\sigma = 4.692$ S/m; $\epsilon_r = 36.531$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.86 W/kg

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

Reference Value = 6.254 V/m; Power Drift = 0.12 dB

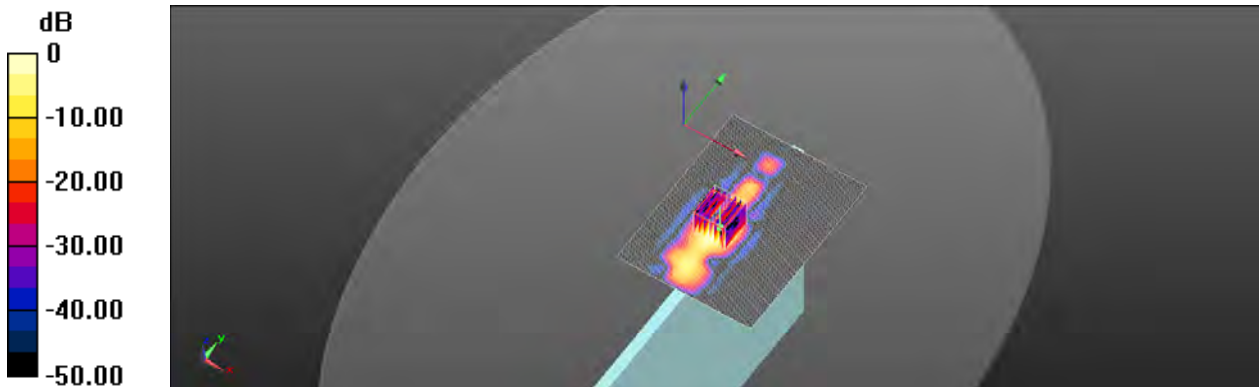
Peak SAR (extrapolated) = 3.46 W/kg

SAR(1 g) = 0.713 W/kg; SAR(10 g) = 0.163 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 52%

Maximum value of SAR (measured) = 1.64 W/kg



0 dB = 1.64 W/kg = 2.15 dBW/kg

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ID: 041

Report No. :TESA2207000200ES

WLAN 802.11a 5.3G_Body_Top Edge_CH 60_0mm_Ant4

Communication System: WLAN; Frequency: 5300 MHz; Duty cycle= 1:1.026

Medium parameters used: $f = 5300 \text{ MHz}$; $\sigma = 4.814 \text{ S/m}$; $\epsilon_r = 36.406$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 1.51 W/kg

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

Reference Value = 3.256 V/m; Power Drift = 0.01 dB

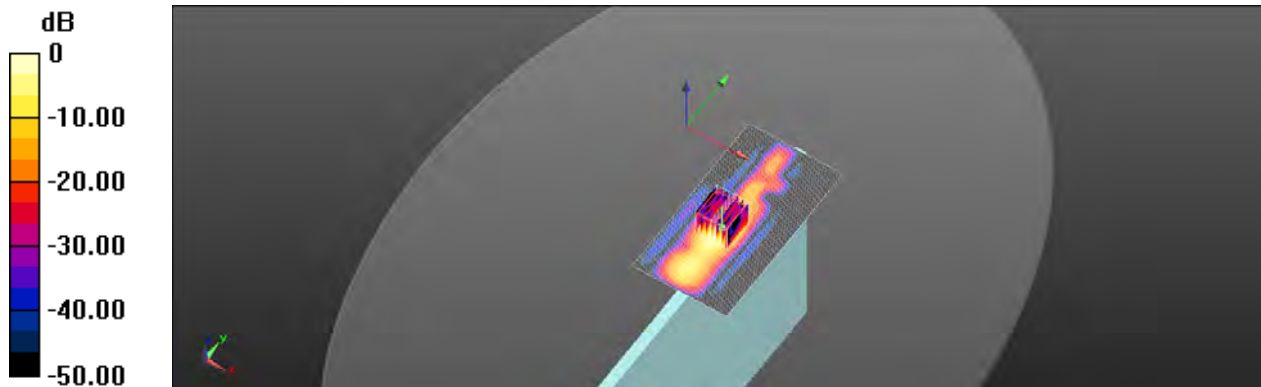
Peak SAR (extrapolated) = 3.03 W/kg

SAR(1 g) = 0.612 W/kg; SAR(10 g) = 0.141 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

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

Maximum value of SAR (measured) = 1.43 W/kg



0 dB = 1.43 W/kg = 1.55 dBW/kg

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ID: 042

Report No. :TESA2207000200ES

WLAN 802.11n(40M) 5.6G_Body_Top Edge_CH 134_0mm_Ant4

Communication System: WLAN; Frequency: 5670 MHz; Duty cycle= 1:1.041

Medium parameters used: $f = 5670$ MHz; $\sigma = 5.198$ S/m; $\epsilon_r = 35.93$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.03 W/kg

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

Reference Value = 6.254 V/m; Power Drift = 0.04 dB

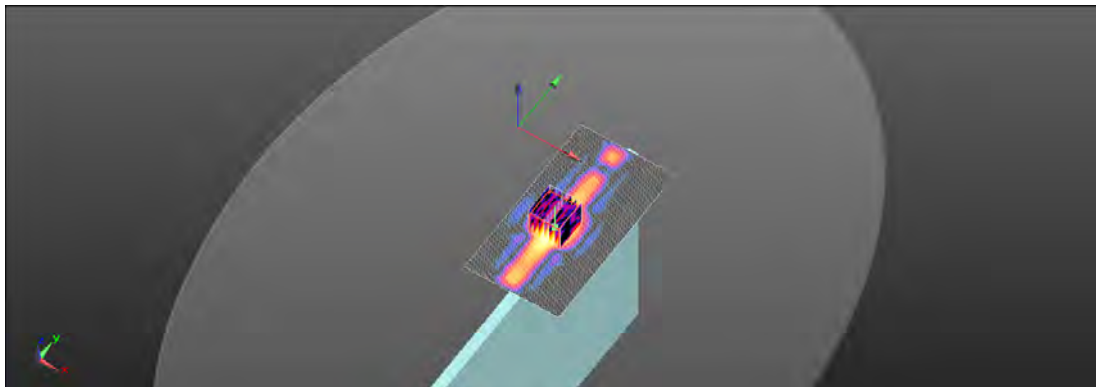
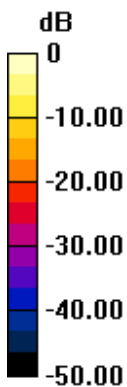
Peak SAR (extrapolated) = 3.53 W/kg

SAR(1 g) = 0.616 W/kg; SAR(10 g) = 0.133 W/kg

Smallest distance from peaks to all points 3 dB below = 4.7 mm

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 1.56 W/kg



0 dB = 1.56 W/kg = 1.93 dBW/kg

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ID: 043

Report No. :TESA2207000200ES

WLAN 802.11n(40M) 5.8G_Body_Top Edge_CH 159_0mm_Ant4

Communication System: WLAN; Frequency: 5795 MHz; Duty cycle= 1:1.041

Medium parameters used: $f = 5795 \text{ MHz}$; $\sigma = 5.322 \text{ S/m}$; $\epsilon_r = 35.796$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x131x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 2.31 W/kg

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

Reference Value = 6.254 V/m; Power Drift = 0.02 dB

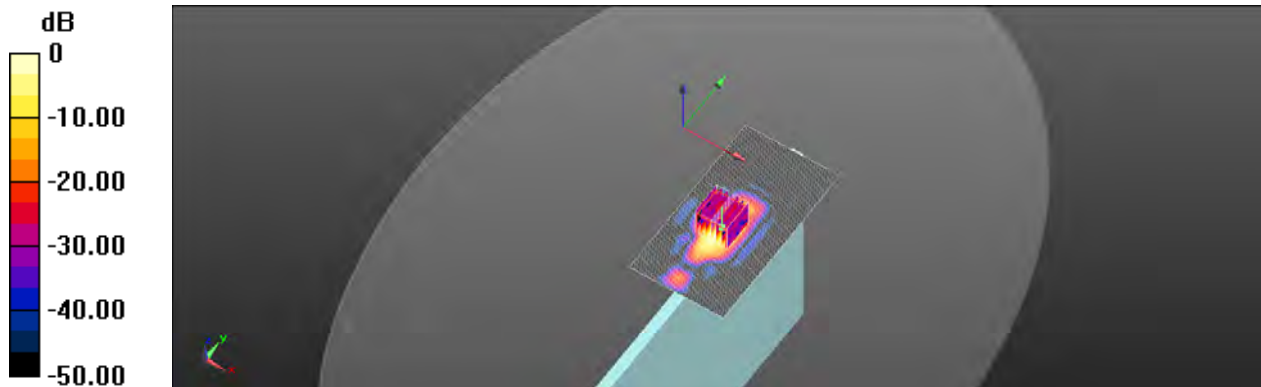
Peak SAR (extrapolated) = 4.61 W/kg

SAR(1 g) = 0.725 W/kg; SAR(10 g) = 0.156 W/kg

Smallest distance from peaks to all points 3 dB below = 4.3 mm

Ratio of SAR at M2 to SAR at M1 = 48.2%

Maximum value of SAR (measured) = 1.88 W/kg



0 dB = 1.88 W/kg = 2.74 dBW/kg

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11 SAR SYSTEM CHECK RESULTS

Date: 2022/8/10

Report No. :TESA2207000200ES

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.886 \text{ S/m}$; $\epsilon_r = 41.38$; $\rho = 800 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.73, 10.73, 10.73); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (41x141x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 2.55 W/kg

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

Reference Value = 46.60 V/m; Power Drift = -0.09 dB

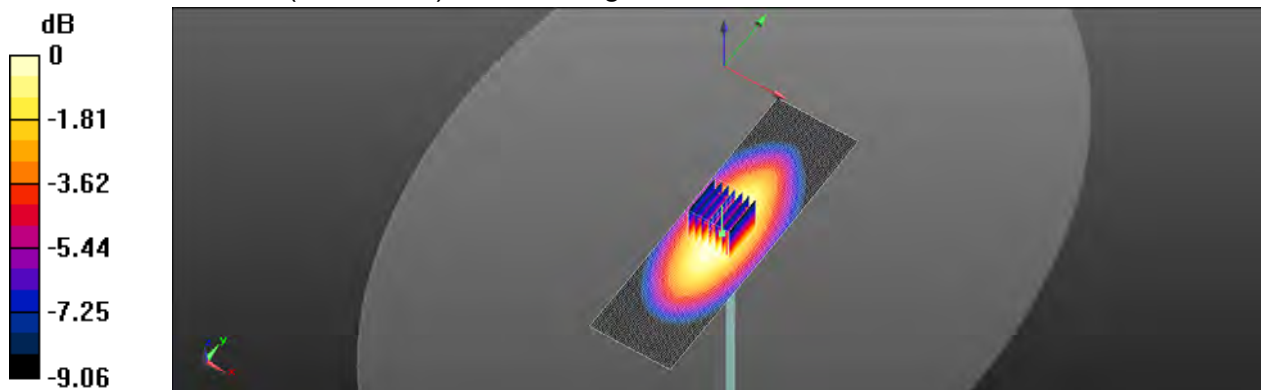
Peak SAR (extrapolated) = 2.77 W/kg

SAR(1 g) = 1.94 W/kg; SAR(10 g) = 1.31 W/kg

Smallest distance from peaks to all points 3 dB below = 12 mm

Ratio of SAR at M2 to SAR at M1 = 71.6%

Maximum value of SAR (measured) = 2.43 W/kg



0 dB = 2.43 W/kg = 3.85 dBW/kg

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Report No. :TESA2207000200ES

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.898 \text{ S/m}$; $\epsilon_r = 41.022$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.3°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(10.36, 10.36, 10.36); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 2.88 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 57.11 V/m ; Power Drift = -0.01 dB

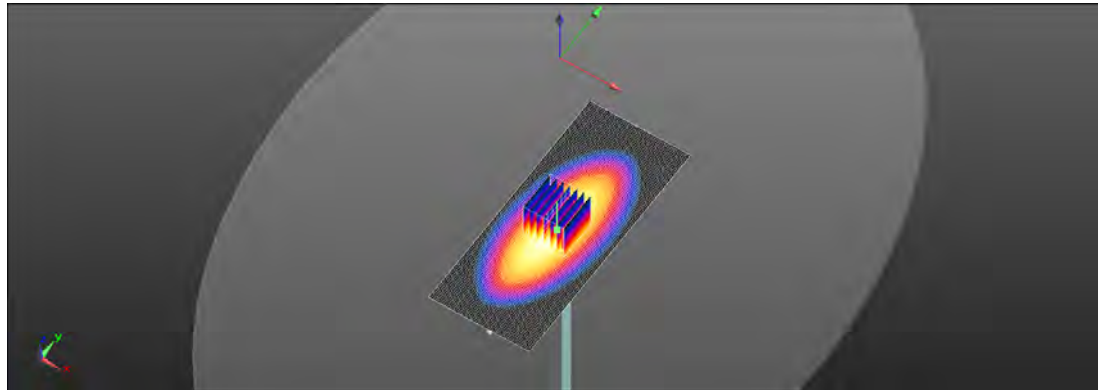
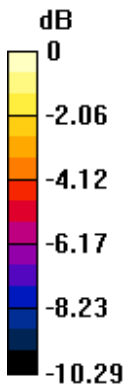
Peak SAR (extrapolated) = 3.45 W/kg

SAR(1 g) = 2.32 W/kg ; SAR(10 g) = 1.53 W/kg

Smallest distance from peaks to all points 3 dB below = 18 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 2.94 W/kg



0 dB = $2.94 \text{ W/kg} = 4.68 \text{ dBW/kg}$

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Report No. :TESA2207000200ES

Dipole 1750 MHz_SN:1008

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.375$ S/m; $\epsilon_r = 40.296$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(9.16, 9.16, 9.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x81x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.1 W/kg

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

Reference Value = 95.18 V/m; Power Drift = -0.01 dB

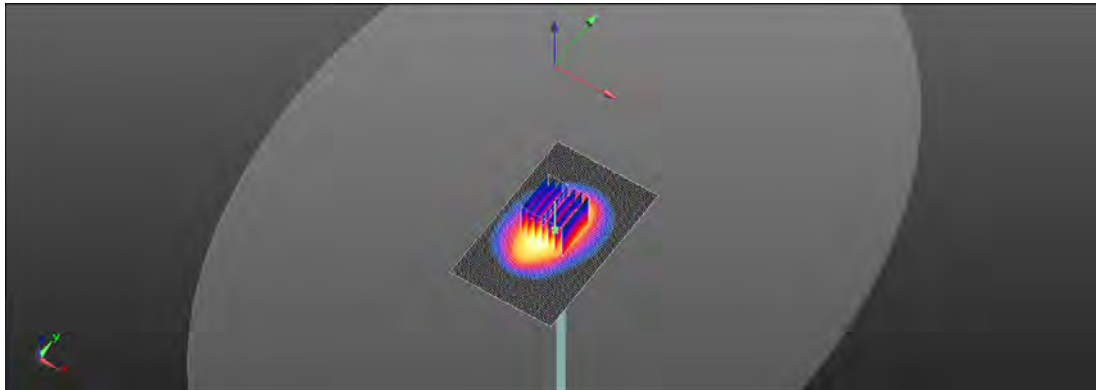
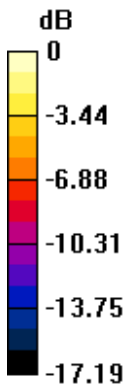
Peak SAR (extrapolated) = 16.9 W/kg

SAR(1 g) = 9.14 W/kg; SAR(10 g) = 4.81 W/kg

Smallest distance from peaks to all points 3 dB below = 10.2 mm

Ratio of SAR at M2 to SAR at M1 = 54.8%

Maximum value of SAR (measured) = 13.1 W/kg



0 dB = 13.1 W/kg = 11.18 dBW/kg

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Report No. :TESA2207000200ES

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900 \text{ MHz}$; $\sigma = 1.406 \text{ S/m}$; $\epsilon_r = 40.212$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.4°C ; Liquid temperature: 22.8°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.83, 8.83, 8.83); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x91x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 14.9 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 93.41 V/m ; Power Drift = 0.02 dB

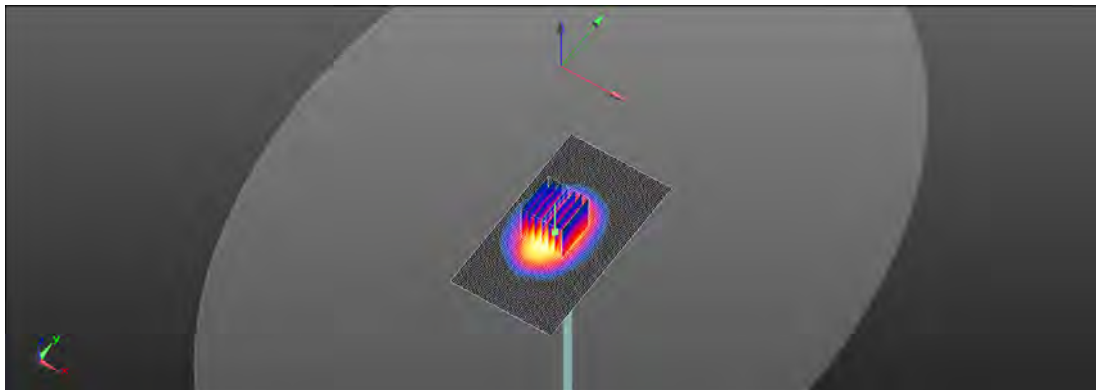
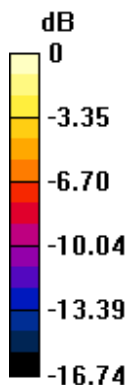
Peak SAR (extrapolated) = 18.2 W/kg

SAR(1 g) = 9.98 W/kg ; SAR(10 g) = 5.25 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 55.5%

Maximum value of SAR (measured) = 14.4 W/kg



0 dB = $14.4 \text{ W/kg} = 11.58 \text{ dBW/kg}$

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Report No. :TESA2207000200ES

Dipole 2450 MHz_SN:727

Communication System: CW; Frequency: 2450 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2450$ MHz; $\sigma = 1.817$ S/m; $\epsilon_r = 39.686$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.6°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.32, 8.32, 8.32); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.0 W/kg

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

Reference Value = 99.08 V/m; Power Drift = 0.04 dB

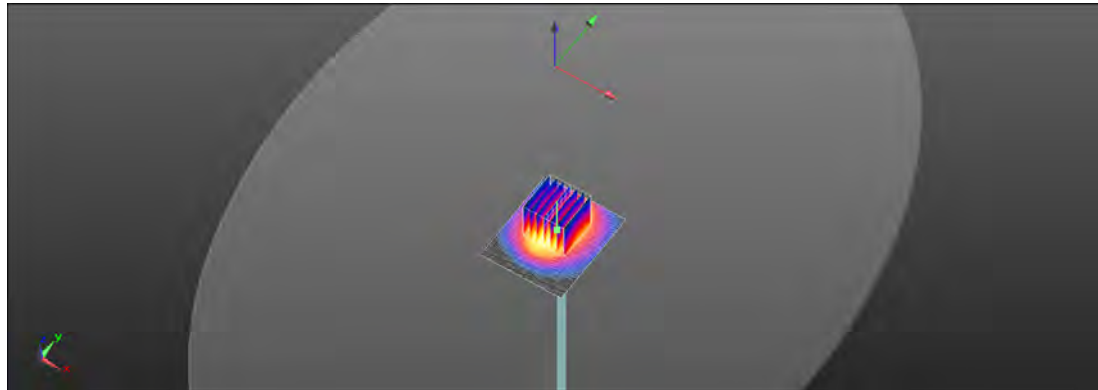
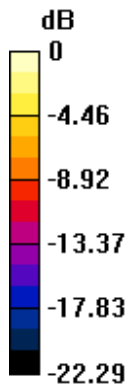
Peak SAR (extrapolated) = 27.4 W/kg

SAR(1 g) = 13.3 W/kg; SAR(10 g) = 6.19 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49.1%

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

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Report No. :TESA2207000200ES

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.978$ S/m; $\epsilon_r = 39.468$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.4°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.7 W/kg

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

Reference Value = 104.7 V/m; Power Drift = 0.02 dB

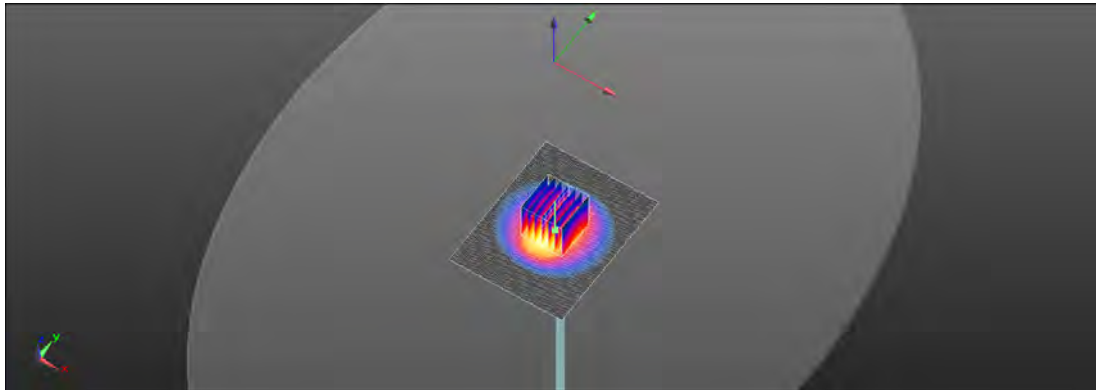
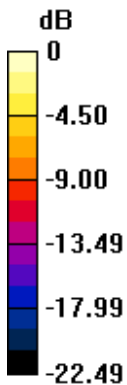
Peak SAR (extrapolated) = 28.9 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.3 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 49%

Maximum value of SAR (measured) = 21.5 W/kg



0 dB = 21.5 W/kg = 13.32 dBW/kg

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Date: 2022/8/16

Report No. :TESA2207000200ES

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.977$ S/m; $\epsilon_r = 39.46$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(8.02, 8.02, 8.02); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x91x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 22.3 W/kg

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

Reference Value = 101.3 V/m; Power Drift = 0.12 dB

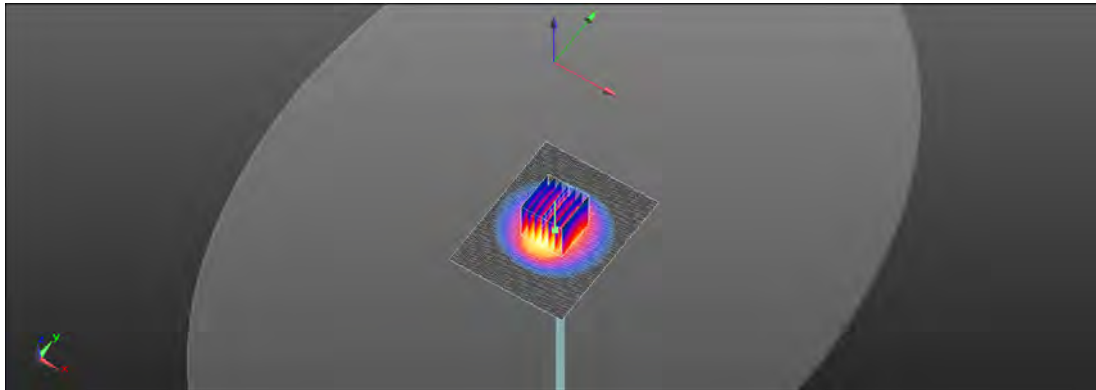
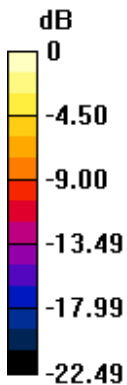
Peak SAR (extrapolated) = 28.6 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.28 W/kg

Smallest distance from peaks to all points 3 dB below = 8.2 mm

Ratio of SAR at M2 to SAR at M1 = 52.2%

Maximum value of SAR (measured) = 21.3 W/kg



0 dB = 21.3 W/kg = 13.15 dBW/kg

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Report No. :TESA2207000200ES

Dipole 5250 MHz_SN:1023

Communication System: CW; Frequency: 5250 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5250$ MHz; $\sigma = 4.76$ S/m; $\epsilon_r = 36.453$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.6°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.81, 5.81, 5.81); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (51x51x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 19.2 W/kg

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

Reference Value = 65.43 V/m; Power Drift = 0.04 dB

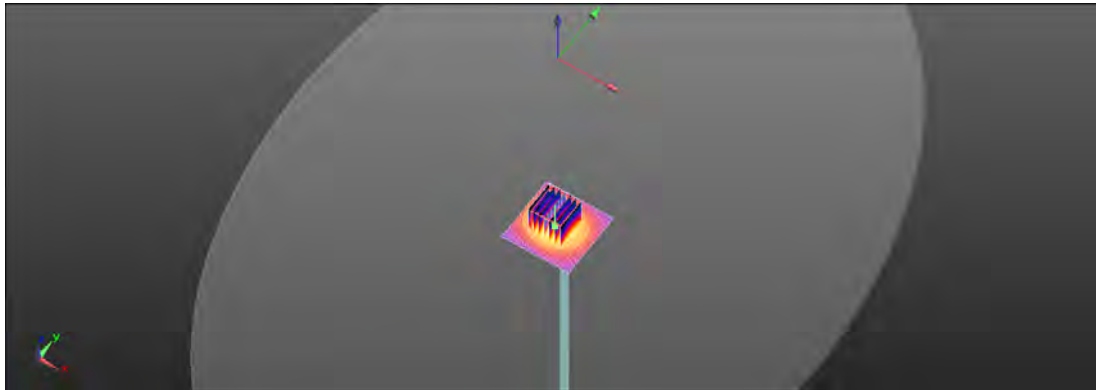
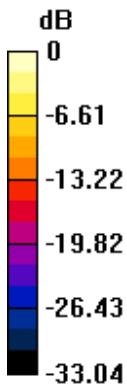
Peak SAR (extrapolated) = 34.1 W/kg

SAR(1 g) = 8.74 W/kg; SAR(10 g) = 2.5 W/kg

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

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

Maximum value of SAR (measured) = 18.2 W/kg



0 dB = 18.2 W/kg = 12.60 dBW/kg

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Report No. :TESA2207000200ES

Dipole 5600 MHz_SN:1023

Communication System: CW; Frequency: 5600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5600$ MHz; $\sigma = 5.124$ S/m; $\epsilon_r = 36.008$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.9°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.16, 5.16, 5.16); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 18.9 W/kg

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

Reference Value = 62.70 V/m; Power Drift = 0.01 dB

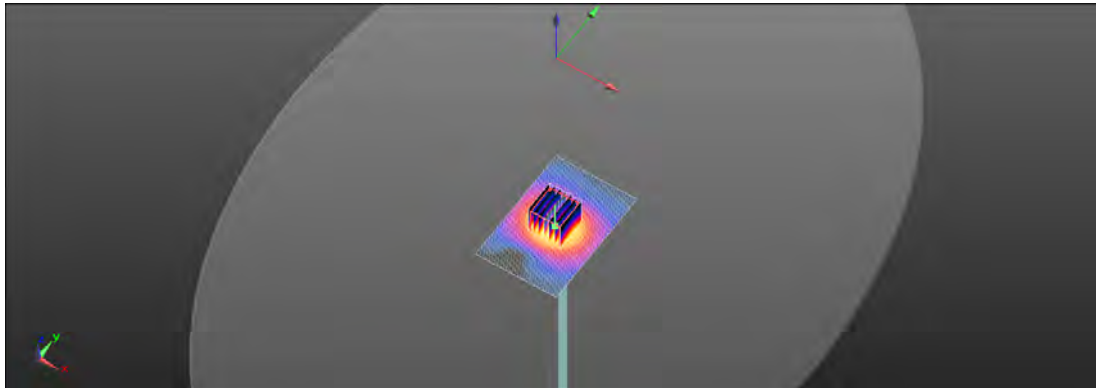
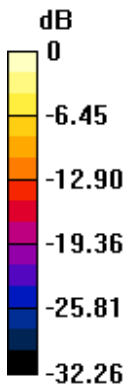
Peak SAR (extrapolated) = 36.4 W/kg

SAR(1 g) = 8.44 W/kg; SAR(10 g) = 2.36 W/kg

Smallest distance from peaks to all points 3 dB below = 7.4 mm

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

Maximum value of SAR (measured) = 18.0 W/kg



0 dB = 18.0 W/kg = 12.55 dBW/kg

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Date: 2022/8/19

Report No. :TESA2207000200ES

Dipole 5750 MHz_SN:1023

Communication System: CW; Frequency: 5750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 5750$ MHz; $\sigma = 5.275$ S/m; $\epsilon_r = 35.854$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.1°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7686; ConvF(5.3, 5.3, 5.3); Calibrated: 2021/10/05
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1665; Calibrated: 2022/02/28
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x91x1): Interpolated grid: dx=10 mm, dy=10 mm

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

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

Reference Value = 58.25 V/m; Power Drift = 0.04 dB

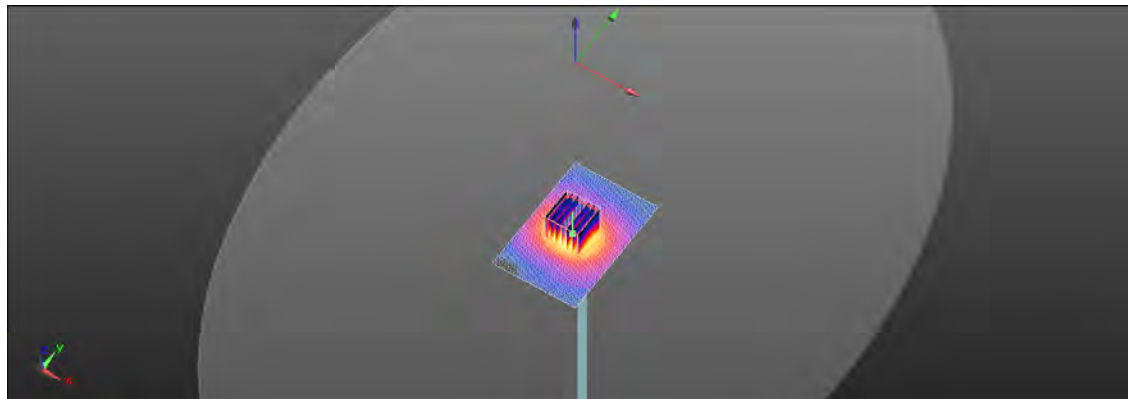
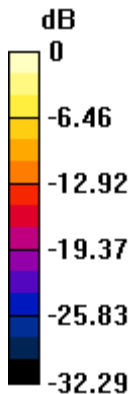
Peak SAR (extrapolated) = 31.2 W/kg

SAR(1 g) = 8.09 W/kg; SAR(10 g) = 2.31 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 57.3%

Maximum value of SAR (measured) = 16.9 W/kg



0 dB = 16.9 W/kg = 12.27 dBW/kg

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Refer to separated files for the following appendixes.

- 12.1 SAR_Appendix A Photographs**
- 12.2 SAR_Appendix B DAE & Probe Cal. Certificate**
- 12.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate**
- 12.4 SAR_Appendix D Modulation system check**

- End of report -

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