

RF Exposure report



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

Product Name LTE Module
Brand Name DELL
Model No. EXM-G1A
Applicant Dell Inc.
One Dell Way, Round Rock, TX 78682
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID E2KEXMG1A
Date of EUT Receipt Jun. 11, 2024
Date of Test(s) Jun. 17, 2024 ~ Jun. 24, 2024
Date of Issue Sep. 05, 2024

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 / Cindy Chou	PM / Afu Chen	Approved By / John Yeh
Cindy Chou	afu Chen	John Teh

Date: Sep. 05, 2024

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2404000228EN	00	Initial creation of document	Aug. 13, 2024	Cindy Chou	
TESA2404000228EN	01	Modify comment	Sep. 05, 2024	Cindy Chou	*

Note:

1. The mark " * " is the revised version of the report due to comments submitted by the certification.
2. WLAN module: AX211NGW and BE200NGW measurements from module reports.

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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

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1.2 Description of EUT

Product Name	LTE Module	
Brand Name	DELL	
Model No.	EXM-G1A	
FCC ID	E2KEXMG1A	
Integrated WLAN Module	Brand Name: Intel® Wi-Fi 6E AX211 Model Name: AX211NGW	
	Brand Name: Intel® BE200NGW Model Name: BE200NGW	
Host Information	Product Type: Notebook Computer Trade Name: DELL Model Name: P148G	
Duty Cycle	WCDMA	1
	LTE FDD	1
	LTE TDD Power	0.633
Supported radios (TX Frequency Range, MHz)	WCDMA Band II	1850-1910
	WCDMA Band IV	1710-1755
	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

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Supported radios (TX Frequency Range, MHz)	LTE FDD Band 14	788-798
	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 TDD Band 48	3550-3700
	LTE FDD Band 66	1710-1780
	LTE FDD Band 71	663-698

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1.3 Maximum value

Frequency Band		SDX12+BE200NGW Highest SAR Summary	SDX12+AX211NGW Highest SAR Summary	SDX12+BE200NGW Highest Simultaneous Transmission 1g SAR (W/kg)	SDX12+AX211NGW Highest Simultaneous Transmission 1g SAR (W/kg)
		Body (Separation 0mm)	Body (Separation 0mm)		
		1g SAR (W/kg)	1g SAR (W/kg)		
WCDMA	WCDMA II	0.009	0.009	1.292	1.242
	WCDMA IV	0.008	0.008		
	WCDMA V	0.018	0.018		
LTE	LTE Band 2	0.011	0.011		
	LTE Band 4	0.008	0.008		
	LTE Band 5	0.022	0.022		
	LTE Band 7	0.015	0.015		
	LTE Band 12	0.012	0.012		
	LTE Band 13	0.032	0.032		
	LTE Band 14	0.032	0.032		
	LTE Band 25	0.009	0.009		
	LTE Band 26_FCC	0.025	0.025		
	LTE Band 66	0.007	0.007		
	LTE Band 71	0.011	0.011		
	LTE Band 38	0.015	0.015		
	LTE Band 41	0.014	0.014		
	LTE Band 48	0.021	0.021		
WLAN	2.4GHz WLAN	0.400	0.460	0.782	0.892
	5GHz WLAN	0.760	0.750	1.242	1.242
	6-7GHz WLAN	0.620	0.260	1.292	0.612
2.4GHz Band	Bluetooth	0.050	0.060	1.292	1.242

1.4 Antenna Information

WWAN										
Vendor	HONGBO									
Antenna	Main									
Part Number	330-26029/330-26025 MSZ0XCTX00004100/MSZ0XCTX00004300									
Frequency(MHz)	71 663~698	12 699~716	13 777~787	14 788~798	26 814~849	5 824~849	4 1710~1755	66 1710~1780	2 1850~1910	25 1850~1915
Gain (dBi)	0.44	0.47	1.37	1.37	-0.05	-1.01	0.33	0.33	1.86	1.86
Frequency(MHz)	41 2496~2690	7 2500~2570	38 2570~2620	48 3550~3700						
Gain (dBi)	0.30	0.26	-1.46	1.33						

Note: Antenna information is provided by the applicant.

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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		
		SAR 8		
	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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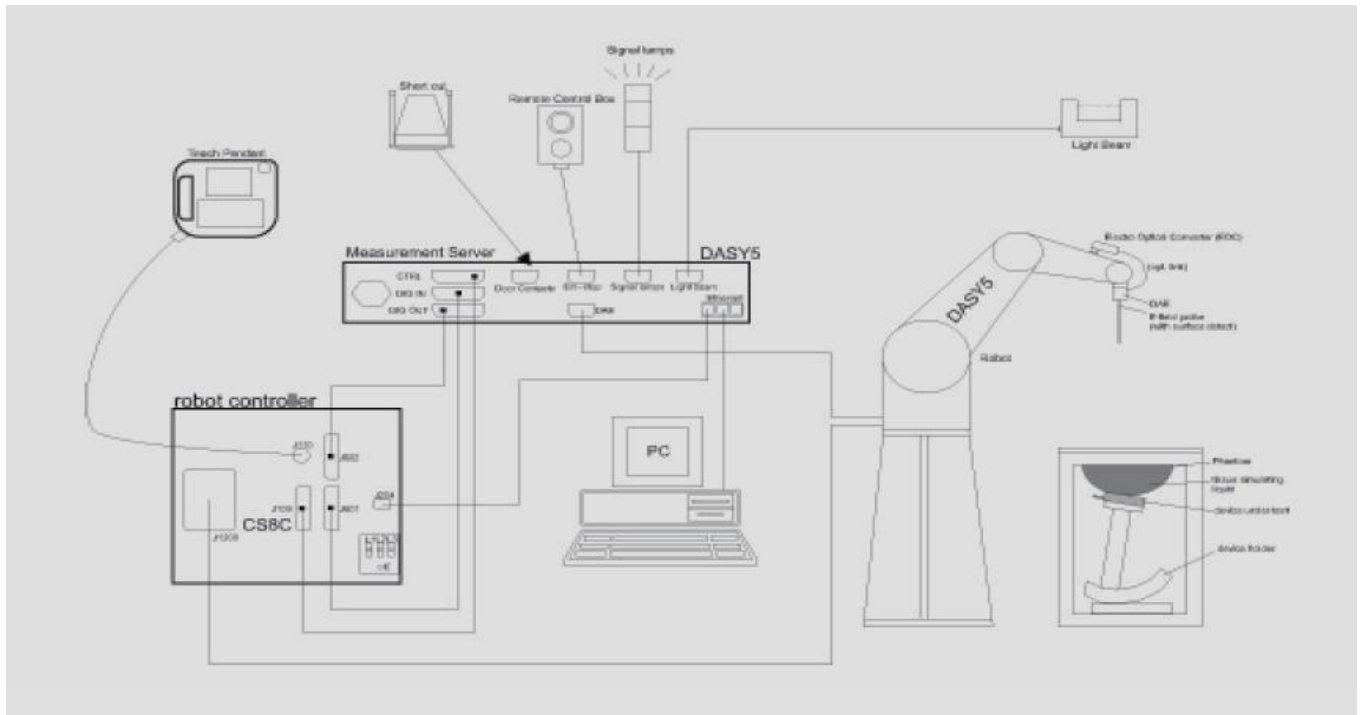
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2.2 SAR System

Block Diagram (DASY5)

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



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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 750/835/1750/1900/2600/3500/3700 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

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

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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 rint (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)	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	Liquid Temp. (°C)	Ambient Temp (°C)
673	42.311	0.885	42.053	0.879	-0.61%	-0.66%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
680.5	42.271	0.885	41.914	0.879	-0.84%	-0.72%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
688	42.231	0.886	41.897	0.879	-0.79%	-0.78%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
704	42.145	0.887	41.828	0.879	-0.75%	-0.89%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
707.5	42.127	0.887	41.805	0.880	-0.76%	-0.81%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
711	42.108	0.887	41.780	0.880	-0.78%	-0.83%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
750	41.900	0.890	41.432	0.885	-1.12%	-0.56%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
782	41.749	0.894	41.429	0.886	-0.77%	-0.87%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
793	41.698	0.895	41.423	0.888	-0.66%	-0.79%	$\pm 5\%$	Jun. 17, 2024	22.2	22.5
821.5	41.564	0.898	41.422	0.889	-0.34%	-1.05%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
826.4	41.540	0.899	41.406	0.891	-0.32%	-0.89%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
829	41.528	0.899	41.357	0.891	-0.41%	-0.92%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
831.5	41.516	0.900	41.314	0.892	-0.49%	-0.84%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
835	41.500	0.900	41.293	0.893	-0.50%	-0.78%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
836.5	41.500	0.902	41.226	0.894	-0.66%	-0.84%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
836.6	41.500	0.902	41.197	0.896	-0.73%	-0.63%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
841.5	41.500	0.907	41.147	0.903	-0.85%	-0.44%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
844	41.500	0.910	41.063	0.904	-1.05%	-0.63%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
846.6	41.500	0.912	40.858	0.907	-1.55%	-0.60%	$\pm 5\%$	Jun. 18, 2024	22.4	22.7
1712.4	40.125	1.350	40.056	1.342	-0.17%	-0.59%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1720	40.114	1.354	40.015	1.352	-0.25%	-0.17%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1732.4	40.097	1.361	39.898	1.352	-0.50%	-0.69%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1732.5	40.096	1.361	39.869	1.356	-0.57%	-0.40%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1745	40.079	1.369	39.803	1.363	-0.69%	-0.41%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1750	40.071	1.371	39.786	1.366	-0.71%	-0.40%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1752.6	40.068	1.373	39.768	1.367	-0.75%	-0.43%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5
1770	40.043	1.383	39.759	1.374	-0.71%	-0.64%	$\pm 5\%$	Jun. 19, 2024	22.1	22.5

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1852.4	40.000	1.400	39.722	1.379	-0.69%	-1.50%	± 5%	Jun. 20, 2024	22.4	22.7
1860	40.000	1.400	39.702	1.381	-0.75%	-1.36%	± 5%	Jun. 20, 2024	22.4	22.7
1880	40.000	1.400	39.685	1.384	-0.79%	-1.14%	± 5%	Jun. 20, 2024	22.4	22.7
1882.5	40.000	1.400	39.677	1.385	-0.81%	-1.07%	± 5%	Jun. 20, 2024	22.4	22.7
1900	40.000	1.400	39.477	1.388	-1.31%	-0.86%	± 5%	Jun. 20, 2024	22.4	22.7
1905	40.000	1.400	39.476	1.389	-1.31%	-0.79%	± 5%	Jun. 20, 2024	22.4	22.7
1907.6	40.000	1.400	39.455	1.390	-1.36%	-0.71%	± 5%	Jun. 20, 2024	22.4	22.7
2506	39.125	1.860	38.844	1.853	-0.72%	-0.36%	± 5%	Jun. 21, 2024	22.1	22.5
2510	39.120	1.864	38.785	1.863	-0.86%	-0.05%	± 5%	Jun. 21, 2024	22.1	22.5
2535	39.087	1.891	38.731	1.886	-0.91%	-0.25%	± 5%	Jun. 21, 2024	22.1	22.5
2549.5	39.067	1.906	38.699	1.900	-0.94%	-0.32%	± 5%	Jun. 21, 2024	22.1	22.5
2560	39.053	1.917	38.463	1.915	-1.51%	-0.12%	± 5%	Jun. 21, 2024	22.1	22.5
2580	39.027	1.939	38.408	1.937	-1.59%	-0.09%	± 5%	Jun. 21, 2024	22.1	22.5
2593	39.009	1.953	38.391	1.948	-1.59%	-0.23%	± 5%	Jun. 21, 2024	22.1	22.5
2595	39.007	1.955	38.386	1.951	-1.59%	-0.19%	± 5%	Jun. 21, 2024	22.1	22.5
2600	39.000	1.960	38.337	1.951	-1.70%	-0.46%	± 5%	Jun. 21, 2024	22.1	22.5
2610	38.988	1.971	38.309	1.963	-1.74%	-0.41%	± 5%	Jun. 21, 2024	22.1	22.5
2636.5	38.954	2.000	38.286	1.995	-1.72%	-0.26%	± 5%	Jun. 21, 2024	22.1	22.5
2680	38.900	2.048	37.958	2.044	-2.42%	-0.20%	± 5%	Jun. 21, 2024	22.1	22.5
2506	39.125	1.860	38.901	1.857	-0.57%	-0.15%	± 5%	Jun. 22, 2024	22.0	22.3
2510	39.120	1.864	38.711	1.857	-1.05%	-0.38%	± 5%	Jun. 22, 2024	22.0	22.3
2535	39.087	1.891	38.575	1.889	-1.31%	-0.09%	± 5%	Jun. 22, 2024	22.0	22.3
2549.5	39.067	1.906	38.482	1.896	-1.50%	-0.53%	± 5%	Jun. 22, 2024	22.0	22.3
2560	39.053	1.917	38.462	1.907	-1.51%	-0.54%	± 5%	Jun. 22, 2024	22.0	22.3
2580	39.027	1.939	38.455	1.936	-1.46%	-0.14%	± 5%	Jun. 22, 2024	22.0	22.3
2593	39.009	1.953	38.407	1.946	-1.54%	-0.33%	± 5%	Jun. 22, 2024	22.0	22.3
2595	39.007	1.955	38.368	1.949	-1.64%	-0.29%	± 5%	Jun. 22, 2024	22.0	22.3
2600	39.000	1.960	38.335	1.958	-1.71%	-0.10%	± 5%	Jun. 22, 2024	22.0	22.3
2610	38.988	1.971	38.327	1.965	-1.69%	-0.30%	± 5%	Jun. 22, 2024	22.0	22.3
2636.5	38.954	2.000	38.267	1.992	-1.76%	-0.41%	± 5%	Jun. 22, 2024	22.0	22.3
2680	38.900	2.048	38.146	2.039	-1.94%	-0.44%	± 5%	Jun. 22, 2024	22.0	22.3
3500	37.900	2.910	37.613	2.901	-0.76%	-0.31%	± 5%	Jun. 23, 2024	22.5	22.8
3560	37.840	2.972	37.543	2.963	-0.78%	-0.32%	± 5%	Jun. 23, 2024	22.5	22.8
3609	37.791	3.023	37.378	3.020	-1.09%	-0.11%	± 5%	Jun. 24, 2024	22.2	22.7
3641	37.759	3.057	37.279	3.051	-1.27%	-0.18%	± 5%	Jun. 24, 2024	22.2	22.7
3690	37.710	3.108	37.180	3.104	-1.41%	-0.12%	± 5%	Jun. 24, 2024	22.2	22.7
3700	37.700	3.118	36.943	3.115	-2.01%	-0.10%	± 5%	Jun. 24, 2024	22.2	22.7

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3.4 The composition of the tissue simulating liquid:

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

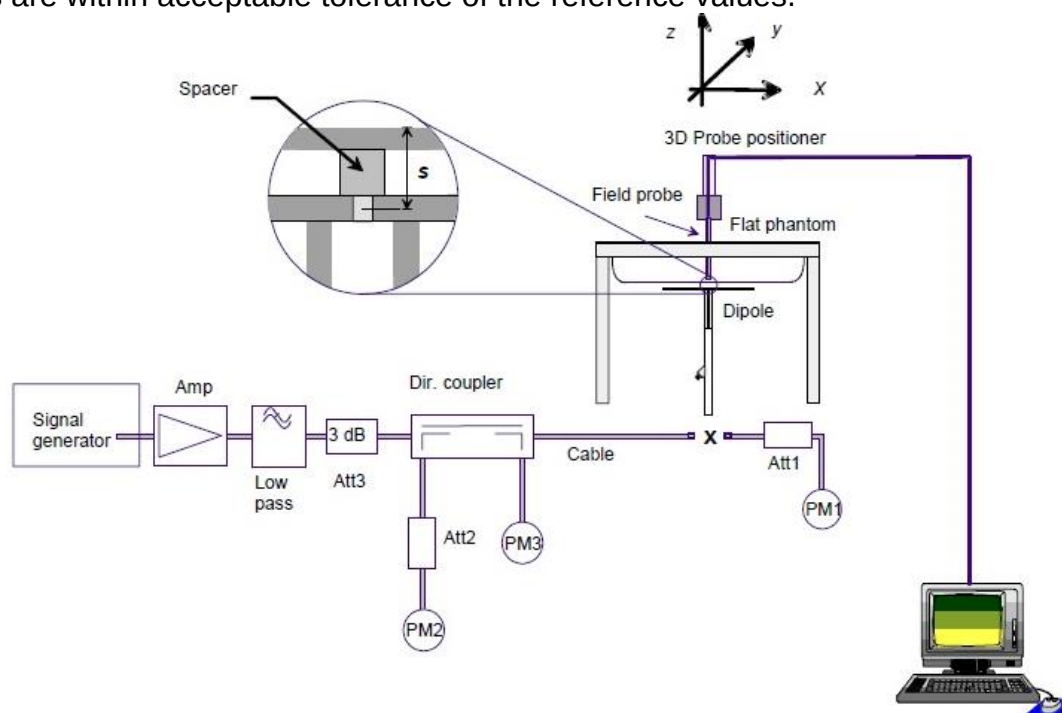
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	8.63	2.2	8.8	1.97	± 10%	Jun.17,2024
D835V2	4d063	835	9.53	2.4	9.6	0.73	± 10%	Jun.18,2024
D1750V2	1158	1750	36.8	9.05	36.2	-1.63	± 10%	Jun.19,2024
D1900V2	5d173	1900	39.9	9.9	39.6	-0.75	± 10%	Jun.20,2024
D2600V2	1005	2600	56	13.8	55.2	-1.43	± 10%	Jun.21,2024
D2600V2	1005	2600	56	13.9	55.6	-0.71	± 10%	Jun.22,2024
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
D3500V2	1009	3500	65.8	6.55	65.5	-0.46	± 10%	Jun.23,2024
D3700V2	1057	3700	67.7	6.78	67.8	0.15	± 10%	Jun.24,2024

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4 TEST CONFIGURATIONS

4.1 Test Environment

Ambient Temperature: $22\pm 2^{\circ}\text{C}$

Tissue Simulating Liquid: $22\pm 2^{\circ}\text{C}$

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 $\leq 0.8\text{ W/kg}$, when the transmission band is $\leq 100\text{ MHz}$.
- **General:** According to KDB865664D01v01r04, SAR measurement variability must be assessed for each frequency band. When the original highest measured SAR is $\geq 0.8\text{ W/kg}$, 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 $\geq 1.45\text{ W/kg}$ ($\sim 10\%$ from the 1-g SAR limit).
- **LTE:** LTE modes test according to **KDB 941225D05v02r05**.
 - a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.
 - Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
 - When the reported SAR is $\leq 0.8\text{ W/kg}$, 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 $> 1.45\text{ W/kg}$, 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

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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 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.

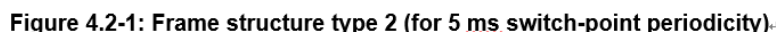
- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. 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.

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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	$26336 \cdot T_s$			$7680 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$
5	$6592 \cdot T_s$	$(2+X) \cdot 2192 \cdot T_s$	$(2+X) \cdot 2560 \cdot T_s$	$20480 \cdot T_s$		
6	$19760 \cdot T_s$			$23040 \cdot T_s$		
7	$21952 \cdot T_s$			$12800 \cdot T_s$		
8	$24144 \cdot T_s$			—		
9	$13168 \cdot T_s$			—	—	—

Uplink-downlink configuration ^a	Downlink-to-Uplink Switch-point periodicity ^a	Subframe number ^a									
		0 ^a	1 ^a	2 ^a	3 ^a	4 ^a	5 ^a	6 ^a	7 ^a	8 ^a	9 ^a
0 ^a	5 <u>ms</u> ^a	D ^a	S ^a	U ^a	U ^a	U ^a	D ^a	S ^a	U ^a	U ^a	U ^a
1 ^a	5 <u>ms</u> ^a	D ^a	S ^a	U ^a	U ^a	D ^a	D ^a	S ^a	U ^a	U ^a	D ^a
2 ^a	5 <u>ms</u> ^a	D ^a	S ^a	U ^a	D ^a	D ^a	S ^a	U ^a	U ^a	D ^a	D ^a
3 ^a	10 <u>ms</u> ^a	D ^a	S ^a	U ^a	U ^a	U ^a	D ^a	D ^a	D ^a	D ^a	D ^a
4 ^a	10 <u>ms</u> ^a	D ^a	S ^a	U ^a	U ^a	D ^a	D ^a	D ^a	D ^a	D ^a	D ^a
5 ^a	10 <u>ms</u> ^a	D ^a	S ^a	U ^a	D ^a	D ^a	D ^a	D ^a	D ^a	D ^a	D ^a
6 ^a	5 <u>ms</u> ^a	D ^a	S ^a	U ^a	U ^a	D ^a	S ^a	U ^a	U ^a	U ^a	D ^a

- **LTE downlink CA:** The device supports the carrier aggregation in the downlink. All uplink communications are identical to the Release 8 specifications. Uplink maximum

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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 $\frac{1}{4}$ 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 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.

- **LTE intra-band UL CA (contiguous):** The device supports LTE intra-band contiguous UL CA. The maximum output power is measured for each UL CA configuration for the required test channels. UL PCC configuration is determined by the required test channel. SCC and subsequent CCs are added alternatively to either side of the PCC or within the transmission band for channels at the ends of a frequency band. SAR for UL CA is required in highest standalone head/body test position and frequency band combination. Since the maximum output for UL CA is $\leq$ standalone LTE mode (without CA), PCC is configured according to the highest standalone SAR configuration tested, SCC and subsequent CCs are configured according to procedures used for power measurement and parameters (BW, RB etc.) similar to that used for the PCC.

- **Test exclusion for NFC:** Based on KDB447498D01v06 4.3.1 c), SAR test exclusion threshold for NFC (13.56MHz) shall be evaluated as below,
 - a) For test separation distances ≤ 50 mm, the power threshold determined by the equation in 4.3.1 c) 1) for 50 mm and 100 MHz is multiplied by $\frac{1}{2}$
 - b) The power threshold at 50mm/100 MHz in 4.3.1 b) is multiplied by $[1 + \log(100/f(\text{MHz}))]$ where f is 13.56MHz
 - c) The power threshold in 4.3.1 b) is $[\text{Power allowed at numeric threshold for 50 mm in 4.3.1 a)} + ((\text{test separation distance} - 50 \text{ mm}) \cdot (f(\text{MHz})/150))$ mW, for 100 MHz to 1500 MHz where test separation distance is 50mm, frequency is 100MHz.
 - d) Power allowed at numeric threshold for 50 mm in 4.3.1 a) is $[3/(f(\text{GHz})^{(1/2)})] \cdot (\text{test separation distance})$

Hence, SAR test exclusion threshold is calculated in reverse sequence:

$$d) : [3/(0.1)^{(1/2)}] \cdot 50 = 474.3416\text{mW}$$

$$c) : 474.3416 + (50-50) \cdot (100/150) = 474.3416\text{mW}$$

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$$b) : 474.3416 \cdot [1 + \log(100/13.56)] = 885.9469 \text{ mW}$$

$$a) : 885.9469 \cdot 0.5 = 442.973 \text{ mW}$$

So the SAR test exclusion power threshold for NFC(13.56MHz) is 442.974mW(equal to 26.464dBm). Also, the maximum power of NFC is -64.76dBm (converted from 10.4 dBuV/m at 30m) and it is far below the exclusion threshold (26.464dBm), so SAR test for NFC can be excluded.

Frequency (MHz)	E-FIELD dBuV/m	Test Distance (m)	EIRP (dBm)	EIRP (mW)	Threshold (mW)
13.56	10.4	30	-64.75757	0.000000334	442.973

• **Estimated SAR for NFC:** Based on KDB447498D01v06 4.3.2 b), when an antenna qualifies for the standalone SAR test exclusion of 4.3.1 and also transmits simultaneously with other antennas, the standalone SAR value must be estimated according to the following to determine the simultaneous transmission SAR test exclusion criteria:

1) $[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [(f(\text{GHz})/x)^{(1/2)}]$ W/kg, for test separation distances ≤ 50 mm, where $x = 7.5$ for 1-g SAR and $x = 18.75$ for 10-g SAR.

Using the most conservative test separation distance 5mm, so the estimated 1g-SAR for NFC would be 0.000.

$$[0.000000334/5] \cdot [\sqrt{0.01356/7.5}] = 0.000000001 \text{ W/kg}$$

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4.3 Test position

Laptop mode SAR test position (0mm)

For laptop PC, according to KDB 616217 D04, SAR evaluation is required for the bottom surface of the keyboard. This EUT was tested in the base of EUT directly against the flat phantom. The required minimum test separation distance for incorporating transmitters and antennas into laptop computer display is determined with the display screen opened at an angle of 90° to the keyboard compartment.

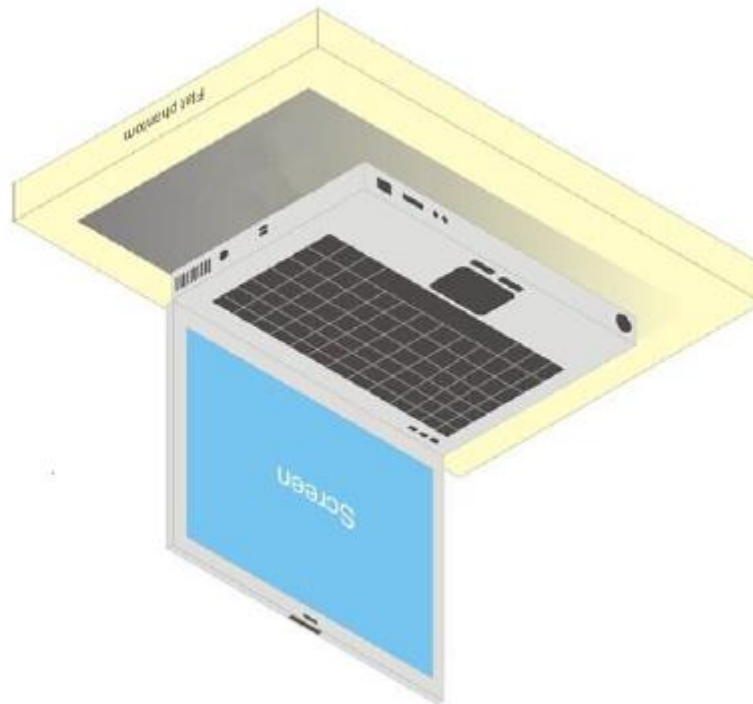


Illustration for Laptop Setup

For Laptop mode, WWAN SAR is measured based on KDB 616217 D04, and WLAN SAR is referred to Intel module SAR level.

(BE200NGW: Report No.: 230526-08.TR13, 230526-08.TR21. AX211NGW: Report No.: 200611-01.TR07, 210209-01.TR10)

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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 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

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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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5 MAXIMUM OUTPUT POWER

5.1 WCDMA

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		25.00		
3GPP Rel 99	RMC 12.2Kbps	23.55	23.52	23.76
3GPP Rel 5	HSDPA Subtest-1	23.43	23.41	23.61
	HSDPA Subtest-2	23.19	23.50	23.59
	HSDPA Subtest-3	22.81	22.80	22.95
	HSDPA Subtest-4	22.84	22.98	22.93
3GPP Rel 6	HSUPA Subtest-1	23.40	23.43	23.61
	HSUPA Subtest-2	21.23	21.38	21.48
	HSUPA Subtest-3	22.35	22.32	22.56
	HSUPA Subtest-4	21.39	21.39	21.58
	HSUPA Subtest-5	23.27	23.37	23.65
3GPP Rel 7	HSPA+	20.78	20.81	21.08
3GPP Rel 8	DC-HSDPA Subtest-1	23.43	23.43	23.50
	DC-HSDPA Subtest-2	23.37	23.50	23.53
	DC-HSDPA Subtest-3	22.89	22.91	22.95
	DC-HSDPA Subtest-4	22.90	22.76	22.91
Band		WCDMA IV		
TX Channel		1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		25.00		
3GPP Rel 99	RMC 12.2Kbps	23.94	23.99	23.98
3GPP Rel 5	HSDPA Subtest-1	23.78	23.92	23.67
	HSDPA Subtest-2	23.69	23.67	23.65
	HSDPA Subtest-3	23.21	23.48	23.28
	HSDPA Subtest-4	23.29	23.38	23.40
3GPP Rel 6	HSUPA Subtest-1	23.74	23.86	23.84
	HSUPA Subtest-2	21.86	21.95	21.76
	HSUPA Subtest-3	22.72	22.85	22.78
	HSUPA Subtest-4	21.76	21.94	21.69
	HSUPA Subtest-5	23.71	23.90	23.78
3GPP Rel 7	HSPA+	21.37	21.37	21.21
3GPP Rel 8	DC-HSDPA Subtest-1	23.79	23.90	23.78
	DC-HSDPA Subtest-2	23.70	23.84	23.83
	DC-HSDPA Subtest-3	23.37	23.28	23.36
	DC-HSDPA Subtest-4	23.34	23.42	23.23

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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)		25.00		
3GPP Rel 99	RMC 12.2Kbps	23.33	23.38	23.30
3GPP Rel 5	HSDPA Subtest-1	23.32	23.15	23.10
	HSDPA Subtest-2	23.31	23.33	23.03
	HSDPA Subtest-3	22.67	22.70	22.68
	HSDPA Subtest-4	22.74	22.76	22.71
3GPP Rel 6	HSUPA Subtest-1	23.32	23.31	23.10
	HSUPA Subtest-2	21.17	21.20	21.04
	HSUPA Subtest-3	22.12	22.30	22.14
	HSUPA Subtest-4	21.14	21.20	21.14
	HSUPA Subtest-5	23.29	23.16	23.25
3GPP Rel 7	HSPA+	20.62	20.62	20.63
3GPP Rel 8	DC-HSDPA Subtest-1	23.23	23.26	23.18
	DC-HSDPA Subtest-2	23.13	23.23	23.13
	DC-HSDPA Subtest-3	22.71	22.70	22.69
	DC-HSDPA Subtest-4	22.71	22.82	22.65

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5.2 FDD LTE

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	22.95	22.88	22.79	24.50	0
		1	50	22.78	22.78	22.65	24.50	0
		1	99	22.82	22.69	22.57	24.50	0
		50	0	21.81	21.86	21.58	23.50	1
		50	25	21.74	21.65	21.73	23.50	1
		50	50	21.75	21.69	21.55	23.50	1
		100	0	21.84	21.61	21.75	23.50	1
20	16-QAM	1	0	21.72	21.73	21.54	23.50	1
		1	50	21.78	21.77	21.69	23.50	1
		1	99	21.80	21.67	21.61	23.50	1
		50	0	20.74	20.71	20.56	22.50	2
		50	25	20.78	20.75	20.72	22.50	2
		50	50	20.79	20.79	20.75	22.50	2
		100	0	20.87	20.74	20.59	22.50	2
20	64-QAM	1	0	20.83	20.80	20.58	22.50	2
		1	50	20.87	20.78	20.56	22.50	2
		1	99	20.65	20.80	20.74	22.50	2
		50	0	19.77	19.64	19.53	21.50	3
		50	25	19.72	19.68	19.56	21.50	3
		50	50	19.79	19.79	19.58	21.50	3
		100	0	19.84	19.76	19.60	21.50	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	22.74	22.80	22.69	24.50	0
		1	36	22.79	22.67	22.57	24.50	0
		1	74	22.89	22.69	22.70	24.50	0
		36	0	21.84	21.77	21.67	23.50	1
		36	18	21.75	21.77	21.67	23.50	1
		36	37	21.78	21.62	21.63	23.50	1
		75	0	21.76	21.75	21.69	23.50	1
15	16-QAM	1	0	21.82	21.68	21.66	23.50	1
		1	36	21.85	21.79	21.58	23.50	1
		1	74	21.85	21.81	21.52	23.50	1
		36	0	20.80	20.84	20.58	22.50	2
		36	18	20.86	20.60	20.61	22.50	2
		36	37	20.80	20.59	20.73	22.50	2
		75	0	20.83	20.73	20.56	22.50	2
15	64-QAM	1	0	20.86	20.66	20.69	22.50	2
		1	36	20.84	20.75	20.61	22.50	2
		1	74	20.81	20.60	20.65	22.50	2
		36	0	19.76	19.73	19.73	21.50	3
		36	18	19.77	19.67	19.58	21.50	3
		36	37	19.90	19.77	19.62	21.50	3
		75	0	19.72	19.67	19.76	21.50	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	22.70	22.78	22.62	24.50	0
		1	25	22.80	22.69	22.68	24.50	0
		1	49	22.75	22.72	22.67	24.50	0
		25	0	21.71	21.77	21.72	23.50	1
		25	12	21.68	21.82	21.65	23.50	1
		25	25	21.75	21.66	21.55	23.50	1
		50	0	21.70	21.75	21.70	23.50	1
10	16-QAM	1	0	21.88	21.71	21.59	23.50	1
		1	25	21.78	21.67	21.67	23.50	1
		1	49	21.81	21.66	21.56	23.50	1
		25	0	20.78	20.76	20.58	22.50	2
		25	12	20.77	20.69	20.66	22.50	2
		25	25	20.75	20.73	20.64	22.50	2
		50	0	20.78	20.65	20.60	22.50	2
10	64-QAM	1	0	20.80	20.81	20.69	22.50	2
		1	25	20.81	20.80	20.61	22.50	2
		1	49	20.85	20.65	20.69	22.50	2
		25	0	19.77	19.78	19.69	21.50	3
		25	12	19.92	19.70	19.60	21.50	3
		25	25	19.71	19.73	19.53	21.50	3
		50	0	19.93	19.68	19.63	21.50	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	22.88	22.78	22.62	24.50	0
		1	12	22.74	22.68	22.55	24.50	0
		1	24	22.78	22.80	22.64	24.50	0
		12	0	21.77	21.64	21.58	23.50	1
		12	6	21.85	21.70	21.62	23.50	1
		12	13	21.85	21.78	21.69	23.50	1
		25	0	21.75	21.73	21.65	23.50	1
5	16-QAM	1	0	21.74	21.83	21.74	23.50	1
		1	12	21.71	21.62	21.70	23.50	1
		1	24	21.91	21.79	21.75	23.50	1
		12	0	20.75	20.79	20.60	22.50	2
		12	6	20.70	20.78	20.65	22.50	2
		12	13	20.70	20.75	20.56	22.50	2
		25	0	20.69	20.79	20.61	22.50	2
5	64-QAM	1	0	20.79	20.79	20.68	22.50	2
		1	12	20.67	20.74	20.69	22.50	2
		1	24	20.76	20.79	20.64	22.50	2
		12	0	19.82	19.70	19.57	21.50	3
		12	6	19.77	19.73	19.72	21.50	3
		12	13	19.80	19.71	19.65	21.50	3
		25	0	19.74	19.78	19.67	21.50	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	22.88	22.67	22.69	24.50	0
		1	7	22.91	22.78	22.64	24.50	0
		1	14	22.71	22.75	22.59	24.50	0
		8	0	21.78	21.80	21.56	23.50	1
		8	4	21.73	21.84	21.56	23.50	1
		8	7	21.78	21.69	21.63	23.50	1
		15	0	21.85	21.75	21.52	23.50	1
3	16-QAM	1	0	21.75	21.67	21.73	23.50	1
		1	7	21.70	21.80	21.61	23.50	1
		1	14	21.78	21.84	21.68	23.50	1
		8	0	20.81	20.68	20.71	22.50	2
		8	4	20.75	20.63	20.60	22.50	2
		8	7	20.75	20.67	20.54	22.50	2
		15	0	20.70	20.72	20.62	22.50	2
3	64-QAM	1	0	20.77	20.75	20.75	22.50	2
		1	7	20.87	20.77	20.57	22.50	2
		1	14	20.67	20.67	20.59	22.50	2
		8	0	19.82	19.73	19.74	21.50	3
		8	4	19.80	19.72	19.54	21.50	3
		8	7	19.78	19.75	19.71	21.50	3
		15	0	19.72	19.71	19.62	21.50	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	22.74	22.81	22.71	24.50	0
		1	2	22.68	22.78	22.55	24.50	0
		1	5	22.80	22.70	22.63	24.50	0
		3	0	22.76	22.63	22.64	24.50	0
		3	2	22.69	22.67	22.61	24.50	0
		3	3	22.90	22.75	22.50	24.50	0
		6	0	21.74	21.81	21.68	23.50	1
1.4	16-QAM	1	0	21.84	21.73	21.60	23.50	1
		1	2	21.79	21.73	21.53	23.50	1
		1	5	21.79	21.66	21.73	23.50	1
		3	0	21.78	21.74	21.63	23.50	1
		3	2	21.87	21.73	21.70	23.50	1
		3	3	21.88	21.74	21.57	23.50	1
		6	0	20.73	20.71	20.69	22.50	2
1.4	64-QAM	1	0	20.80	20.72	20.59	22.50	2
		1	2	20.90	20.82	20.72	22.50	2
		1	5	20.78	20.63	20.68	22.50	2
		3	0	20.82	20.64	20.66	22.50	2
		3	2	20.84	20.78	20.58	22.50	2
		3	3	20.83	20.79	20.65	22.50	2
		6	0	19.76	19.69	19.62	21.50	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	22.92	23.01	23.09	24.50	0
		1	50	22.78	22.92	22.89	24.50	0
		1	99	22.77	22.91	22.95	24.50	0
		50	0	21.71	21.88	21.90	23.50	1
		50	25	21.69	21.87	21.87	23.50	1
		50	50	21.88	21.78	21.95	23.50	1
		100	0	21.74	21.91	21.81	23.50	1
20	16-QAM	1	0	21.65	21.86	21.95	23.50	1
		1	50	21.70	21.88	21.86	23.50	1
		1	99	21.79	21.81	21.89	23.50	1
		50	0	20.70	20.89	20.94	22.50	2
		50	25	20.73	20.87	21.05	22.50	2
		50	50	20.75	20.92	20.81	22.50	2
		100	0	20.64	20.86	21.03	22.50	2
20	64-QAM	1	0	20.75	20.75	20.87	22.50	2
		1	50	20.75	20.84	20.91	22.50	2
		1	99	20.69	20.82	20.93	22.50	2
		50	0	19.72	19.80	19.96	21.50	3
		50	25	19.86	19.84	19.96	21.50	3
		50	50	19.74	19.90	19.96	21.50	3
		100	0	19.63	19.84	19.82	21.50	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	22.76	22.80	22.87	24.50	0
		1	36	22.78	22.80	22.91	24.50	0
		1	74	22.69	22.85	22.89	24.50	0
		36	0	21.84	21.92	21.97	23.50	1
		36	18	21.68	21.93	21.95	23.50	1
		36	37	21.62	21.84	21.82	23.50	1
		75	0	21.83	21.95	21.93	23.50	1
15	16-QAM	1	0	21.77	21.97	21.92	23.50	1
		1	36	21.71	21.88	22.07	23.50	1
		1	74	21.88	21.94	21.85	23.50	1
		36	0	20.78	20.87	20.99	22.50	2
		36	18	20.89	20.87	21.03	22.50	2
		36	37	20.77	20.81	21.01	22.50	2
		75	0	20.77	20.88	20.85	22.50	2
15	64-QAM	1	0	20.72	20.89	20.88	22.50	2
		1	36	20.68	20.96	21.05	22.50	2
		1	74	20.66	20.87	20.89	22.50	2
		36	0	19.83	19.74	19.88	21.50	3
		36	18	19.78	19.87	19.95	21.50	3
		36	37	19.87	19.74	19.99	21.50	3
		75	0	19.76	19.87	19.97	21.50	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	22.72	22.85	23.06	24.50	0
		1	25	22.81	22.87	23.01	24.50	0
		1	49	22.63	22.84	22.96	24.50	0
		25	0	21.73	21.71	22.03	23.50	1
		25	12	21.76	21.89	21.88	23.50	1
		25	25	21.75	21.86	22.02	23.50	1
		50	0	21.67	21.95	21.91	23.50	1
10	16-QAM	1	0	21.83	21.86	21.94	23.50	1
		1	25	21.75	21.73	21.97	23.50	1
		1	49	21.81	21.85	21.95	23.50	1
		25	0	20.74	20.79	20.99	22.50	2
		25	12	20.70	20.76	20.91	22.50	2
		25	25	20.83	20.85	20.86	22.50	2
		50	0	20.78	20.88	20.90	22.50	2
10	64-QAM	1	0	20.70	20.90	20.94	22.50	2
		1	25	20.80	20.95	21.03	22.50	2
		1	49	20.67	20.81	20.88	22.50	2
		25	0	19.89	19.94	20.03	21.50	3
		25	12	19.80	19.89	19.94	21.50	3
		25	25	19.78	19.84	19.96	21.50	3
		50	0	19.78	19.93	20.00	21.50	3

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Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	22.82	22.87	22.86	24.50	0
		1	12	22.76	22.90	22.91	24.50	0
		1	24	22.67	22.88	22.99	24.50	0
		12	0	21.70	21.81	22.03	23.50	1
		12	6	21.83	21.75	21.94	23.50	1
		12	13	21.75	21.90	21.97	23.50	1
		25	0	21.84	21.86	21.98	23.50	1
5	16-QAM	1	0	21.73	21.79	21.90	23.50	1
		1	12	21.62	21.93	21.92	23.50	1
		1	24	21.78	21.94	21.87	23.50	1
		12	0	20.74	20.83	20.90	22.50	2
		12	6	20.86	20.89	20.92	22.50	2
		12	13	20.76	20.79	20.98	22.50	2
		25	0	20.74	20.96	20.92	22.50	2
5	64-QAM	1	0	20.67	20.84	20.97	22.50	2
		1	12	20.63	20.89	20.93	22.50	2
		1	24	20.84	20.76	20.99	22.50	2
		12	0	19.74	19.85	19.99	21.50	3
		12	6	19.77	19.87	19.93	21.50	3
		12	13	19.65	19.96	19.95	21.50	3
		25	0	19.77	19.83	19.79	21.50	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	22.74	22.76	22.97	24.50	0
		1	7	22.83	22.86	22.99	24.50	0
		1	14	22.80	22.90	22.98	24.50	0
		8	0	21.69	21.87	21.94	23.50	1
		8	4	21.72	21.73	21.98	23.50	1
		8	7	21.74	21.83	21.90	23.50	1
		15	0	21.82	21.85	21.91	23.50	1
3	16-QAM	1	0	21.75	21.81	21.91	23.50	1
		1	7	21.67	21.88	21.94	23.50	1
		1	14	21.88	21.86	21.90	23.50	1
		8	0	20.69	20.86	20.89	22.50	2
		8	4	20.80	20.83	20.98	22.50	2
		8	7	20.78	20.84	20.96	22.50	2
		15	0	20.78	20.85	20.83	22.50	2
3	64-QAM	1	0	20.79	20.87	20.92	22.50	2
		1	7	20.88	20.96	20.91	22.50	2
		1	14	20.72	20.84	20.90	22.50	2
		8	0	19.73	19.82	20.01	21.50	3
		8	4	19.79	19.76	19.99	21.50	3
		8	7	19.72	19.86	20.03	21.50	3
		15	0	19.88	19.88	19.92	21.50	3

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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	22.74	22.81	22.94	24.50	0
		1	2	22.74	22.82	22.90	24.50	0
		1	5	22.80	22.77	22.99	24.50	0
		3	0	22.83	22.93	23.03	24.50	0
		3	2	22.69	22.85	22.92	24.50	0
		3	3	22.84	22.78	22.88	24.50	0
		6	0	21.75	21.88	22.03	23.50	1
1.4	16-QAM	1	0	21.74	21.84	21.92	23.50	1
		1	2	21.86	21.76	21.83	23.50	1
		1	5	21.78	21.92	21.93	23.50	1
		3	0	21.74	21.90	21.97	23.50	1
		3	2	21.69	21.83	21.90	23.50	1
		3	3	21.82	21.88	21.83	23.50	1
		6	0	20.74	20.92	20.87	22.50	2
1.4	64-QAM	1	0	20.64	20.95	21.02	22.50	2
		1	2	20.70	20.89	20.81	22.50	2
		1	5	20.69	20.77	20.82	22.50	2
		3	0	20.78	20.98	20.91	22.50	2
		3	2	20.75	20.95	20.94	22.50	2
		3	3	20.80	20.88	21.02	22.50	2
		6	0	19.75	19.88	19.97	21.50	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	23.83	23.80	23.70	25.50	0
		1	25	23.74	23.70	23.52	25.50	0
		1	49	23.75	23.57	23.56	25.50	0
		25	0	22.64	22.68	22.50	24.50	1
		25	12	22.67	22.68	22.52	24.50	1
		25	25	22.63	22.68	22.55	24.50	1
		50	0	22.63	22.68	22.55	24.50	1
10	16-QAM	1	0	22.70	22.63	22.50	24.50	1
		1	25	22.68	22.70	22.58	24.50	1
		1	49	22.55	22.71	22.50	24.50	1
		25	0	21.68	21.50	21.66	23.50	2
		25	12	21.73	21.66	21.52	23.50	2
		25	25	21.71	21.66	21.58	23.50	2
		50	0	21.63	21.53	21.51	23.50	2
10	64-QAM	1	0	21.77	21.58	21.53	23.50	2
		1	25	21.62	21.65	21.51	23.50	2
		1	49	21.70	21.62	21.54	23.50	2
		25	0	20.67	20.52	20.50	22.50	3
		25	12	20.65	20.67	20.52	22.50	3
		25	25	20.70	20.54	20.58	22.50	3
		50	0	20.58	20.73	20.50	22.50	3

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Frequency (MHz)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.71	23.72	23.63	25.50	0
		1	12	23.71	23.78	23.58	25.50	0
		1	24	23.78	23.72	23.52	25.50	0
		12	0	22.69	22.69	22.57	24.50	1
		12	6	22.62	22.59	22.50	24.50	1
		12	13	22.77	22.60	22.55	24.50	1
		25	0	22.69	22.58	22.52	24.50	1
5	16-QAM	1	0	22.61	22.65	22.53	24.50	1
		1	12	22.72	22.70	22.58	24.50	1
		1	24	22.67	22.58	22.55	24.50	1
		12	0	21.67	21.62	21.52	23.50	2
		12	6	21.66	21.57	21.55	23.50	2
		12	13	21.54	21.53	21.53	23.50	2
		25	0	21.77	21.70	21.53	23.50	2
5	64-QAM	1	0	21.73	21.76	21.65	23.50	2
		1	12	21.65	21.66	21.52	23.50	2
		1	24	21.71	21.54	21.57	23.50	2
		12	0	20.76	20.73	20.53	22.50	3
		12	6	20.66	20.65	20.57	22.50	3
		12	13	20.59	20.70	20.52	22.50	3
		25	0	20.57	20.58	20.59	22.50	3

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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	23.68	23.72	23.55	25.50	0
		1	7	23.62	23.62	23.57	25.50	0
		1	14	23.67	23.54	23.52	25.50	0
		8	0	22.78	22.67	22.56	24.50	1
		8	4	22.66	22.68	22.61	24.50	1
		8	7	22.69	22.65	22.60	24.50	1
		15	0	22.68	22.59	22.56	24.50	1
3	16-QAM	1	0	22.59	22.54	22.52	24.50	1
		1	7	22.69	22.64	22.54	24.50	1
		1	14	22.62	22.64	22.50	24.50	1
		8	0	21.55	21.60	21.50	23.50	2
		8	4	21.62	21.64	21.50	23.50	2
		8	7	21.63	21.58	21.50	23.50	2
		15	0	21.69	21.64	21.58	23.50	2
3	64-QAM	1	0	21.68	21.57	21.54	23.50	2
		1	7	21.75	21.64	21.55	23.50	2
		1	14	21.74	21.57	21.53	23.50	2
		8	0	20.71	20.67	20.60	22.50	3
		8	4	20.68	20.53	20.51	22.50	3
		8	7	20.74	20.58	20.59	22.50	3
		15	0	20.68	20.62	20.58	22.50	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	23.67	23.72	23.64	25.50	0
		1	2	23.74	23.63	23.58	25.50	0
		1	5	23.79	23.69	23.53	25.50	0
		3	0	23.70	23.68	23.54	25.50	0
		3	2	23.67	23.61	23.63	25.50	0
		3	3	23.61	23.71	23.58	25.50	0
		6	0	22.81	22.68	22.58	24.50	1
1.4	16-QAM	1	0	22.65	22.72	22.54	24.50	1
		1	2	22.60	22.60	22.68	24.50	1
		1	5	22.68	22.61	22.64	24.50	1
		3	0	22.68	22.68	22.65	24.50	1
		3	2	22.63	22.71	22.57	24.50	1
		3	3	22.68	22.73	22.57	24.50	1
		6	0	21.66	21.68	21.50	23.50	2
1.4	64-QAM	1	0	21.81	21.66	21.51	23.50	2
		1	2	21.59	21.64	21.54	23.50	2
		1	5	21.74	21.55	21.65	23.50	2
		3	0	21.67	21.54	21.54	23.50	2
		3	2	21.65	21.59	21.56	23.50	2
		3	3	21.54	21.71	21.52	23.50	2
		6	0	20.66	20.57	20.50	22.50	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	23.02	22.99	22.97	24.50	0
		1	50	22.89	22.84	22.81	24.50	0
		1	99	22.86	22.81	22.77	24.50	0
		50	0	21.79	21.94	21.83	23.50	1
		50	25	21.94	21.81	21.78	23.50	1
		50	50	21.94	21.92	21.76	23.50	1
		100	0	21.84	21.91	21.76	23.50	1
20	16-QAM	1	0	21.91	21.84	21.72	23.50	1
		1	50	21.87	21.96	21.79	23.50	1
		1	99	21.90	21.75	21.77	23.50	1
		50	0	20.78	20.83	20.83	22.50	2
		50	25	20.83	20.75	20.84	22.50	2
		50	50	20.79	20.86	20.84	22.50	2
		100	0	20.77	20.92	20.82	22.50	2
20	64-QAM	1	0	20.84	20.97	20.88	22.50	2
		1	50	20.91	20.71	20.95	22.50	2
		1	99	20.76	20.69	20.70	22.50	2
		50	0	19.79	19.81	19.89	21.50	3
		50	25	19.83	19.86	19.82	21.50	3
		50	50	19.83	19.86	19.75	21.50	3
		100	0	19.90	19.89	19.74	21.50	3

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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	22.89	22.92	22.76	24.50	0
		1	36	22.83	22.81	22.90	24.50	0
		1	74	22.91	22.81	22.80	24.50	0
		36	0	21.89	21.81	21.74	23.50	1
		36	18	21.88	21.80	21.87	23.50	1
		36	37	21.95	21.82	21.81	23.50	1
		75	0	22.00	21.78	21.93	23.50	1
15	16-QAM	1	0	21.75	21.79	21.82	23.50	1
		1	36	21.92	21.87	21.76	23.50	1
		1	74	21.77	21.85	21.80	23.50	1
		36	0	20.95	20.80	20.74	22.50	2
		36	18	20.79	20.76	20.82	22.50	2
		36	37	20.84	20.85	20.84	22.50	2
		75	0	20.87	20.87	20.74	22.50	2
15	64-QAM	1	0	20.91	20.76	20.80	22.50	2
		1	36	20.82	20.81	20.88	22.50	2
		1	74	20.88	20.81	20.81	22.50	2
		36	0	19.86	19.80	19.82	21.50	3
		36	18	19.83	19.86	19.85	21.50	3
		36	37	19.88	19.79	19.80	21.50	3
		75	0	19.92	19.80	19.84	21.50	3

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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	22.82	22.88	22.94	24.50	0
		1	25	22.83	22.80	22.79	24.50	0
		1	49	22.82	22.81	22.89	24.50	0
		25	0	21.92	21.84	21.90	23.50	1
		25	12	21.78	21.89	21.85	23.50	1
		25	25	21.77	21.82	21.79	23.50	1
		50	0	21.96	21.88	21.86	23.50	1
10	16-QAM	1	0	21.88	21.87	21.84	23.50	1
		1	25	21.86	21.80	21.90	23.50	1
		1	49	21.87	21.79	21.83	23.50	1
		25	0	20.87	20.76	20.91	22.50	2
		25	12	20.77	20.81	20.69	22.50	2
		25	25	20.92	20.74	20.81	22.50	2
		50	0	20.81	20.76	20.92	22.50	2
10	64-QAM	1	0	20.81	20.89	20.78	22.50	2
		1	25	20.82	20.83	20.87	22.50	2
		1	49	20.85	20.81	20.86	22.50	2
		25	0	19.91	19.84	19.71	21.50	3
		25	12	19.84	19.85	19.82	21.50	3
		25	25	19.90	19.84	19.82	21.50	3
		50	0	19.84	19.91	19.83	21.50	3

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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	22.92	22.83	22.88	24.50	0
		1	12	22.84	22.77	22.79	24.50	0
		1	24	22.82	22.89	22.79	24.50	0
		12	0	21.86	21.91	21.76	23.50	1
		12	6	21.92	21.88	21.72	23.50	1
		12	13	21.88	21.77	21.73	23.50	1
		25	0	21.93	21.82	21.83	23.50	1
5	16-QAM	1	0	21.96	21.82	21.78	23.50	1
		1	12	21.83	21.79	21.88	23.50	1
		1	24	21.87	21.86	21.90	23.50	1
		12	0	20.93	20.75	20.79	22.50	2
		12	6	20.85	20.88	20.93	22.50	2
		12	13	20.82	20.93	20.85	22.50	2
		25	0	20.88	20.79	20.84	22.50	2
5	64-QAM	1	0	20.93	20.84	20.71	22.50	2
		1	12	20.90	20.75	20.79	22.50	2
		1	24	20.87	20.80	20.83	22.50	2
		12	0	19.91	19.75	19.77	21.50	3
		12	6	19.85	19.87	19.68	21.50	3
		12	13	19.91	19.83	19.80	21.50	3
		25	0	19.86	19.76	19.78	21.50	3

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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	23.83	23.80	23.94	25.50	0
		1	25	23.61	23.71	23.76	25.50	0
		1	49	23.66	23.69	23.75	25.50	0
		25	0	22.68	22.72	22.81	24.50	1
		25	12	22.58	22.64	22.79	24.50	1
		25	25	22.74	22.60	22.89	24.50	1
		50	0	22.68	22.78	22.77	24.50	1
10	16-QAM	1	0	22.66	22.72	22.80	24.50	1
		1	25	22.65	22.54	22.88	24.50	1
		1	49	22.70	22.73	22.73	24.50	1
		25	0	21.60	21.65	21.77	23.50	2
		25	12	21.65	21.64	21.80	23.50	2
		25	25	21.72	21.72	21.77	23.50	2
		50	0	21.69	21.69	21.88	23.50	2
10	64-QAM	1	0	21.72	21.67	21.79	23.50	2
		1	25	21.72	21.61	21.69	23.50	2
		1	49	21.68	21.67	21.77	23.50	2
		25	0	20.71	20.76	20.77	22.50	3
		25	12	20.71	20.66	20.89	22.50	3
		25	25	20.69	20.69	20.74	22.50	3
		50	0	20.69	20.56	20.73	22.50	3

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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	23.71	23.74	23.82	25.50	0
		1	12	23.67	23.72	23.77	25.50	0
		1	24	23.60	23.52	23.74	25.50	0
		12	0	22.64	22.67	22.84	24.50	1
		12	6	22.62	22.60	22.69	24.50	1
		12	13	22.61	22.69	22.70	24.50	1
		25	0	22.69	22.64	22.71	24.50	1
5	16-QAM	1	0	22.67	22.66	22.68	24.50	1
		1	12	22.64	22.59	22.66	24.50	1
		1	24	22.63	22.59	22.77	24.50	1
		12	0	21.65	21.60	21.72	23.50	2
		12	6	21.68	21.61	21.78	23.50	2
		12	13	21.78	21.67	21.73	23.50	2
		25	0	21.73	21.56	21.76	23.50	2
5	64-QAM	1	0	21.79	21.64	21.81	23.50	2
		1	12	21.72	21.68	21.77	23.50	2
		1	24	21.61	21.55	21.83	23.50	2
		12	0	20.78	20.67	20.78	22.50	3
		12	6	20.76	20.64	20.68	22.50	3
		12	13	20.63	20.62	20.84	22.50	3
		25	0	20.66	20.57	20.85	22.50	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	23.60	23.66	23.70	25.50	0
		1	7	23.71	23.58	23.72	25.50	0
		1	14	23.63	23.70	23.71	25.50	0
		8	0	22.61	22.67	22.79	24.50	1
		8	4	22.73	22.71	22.79	24.50	1
		8	7	22.77	22.66	22.70	24.50	1
		15	0	22.71	22.57	22.69	24.50	1
3	16-QAM	1	0	22.68	22.54	22.74	24.50	1
		1	7	22.65	22.57	22.81	24.50	1
		1	14	22.72	22.66	22.71	24.50	1
		8	0	21.69	21.69	21.87	23.50	2
		8	4	21.54	21.54	21.86	23.50	2
		8	7	21.66	21.59	21.77	23.50	2
		15	0	21.79	21.70	21.75	23.50	2
3	64-QAM	1	0	21.64	21.70	21.82	23.50	2
		1	7	21.69	21.60	21.76	23.50	2
		1	14	21.76	21.63	21.69	23.50	2
		8	0	20.65	20.68	20.83	22.50	3
		8	4	20.78	20.68	20.81	22.50	3
		8	7	20.69	20.59	20.78	22.50	3
		15	0	20.70	20.62	20.79	22.50	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	23.53	23.63	23.76	25.50	0
		1	2	23.60	23.62	23.85	25.50	0
		1	5	23.65	23.74	23.81	25.50	0
		3	0	23.62	23.66	23.76	25.50	0
		3	2	23.73	23.62	23.82	25.50	0
		3	3	23.71	23.60	23.80	25.50	0
		6	0	22.61	22.67	22.80	24.50	1
1.4	16-QAM	1	0	22.66	22.59	22.73	24.50	1
		1	2	22.70	22.56	22.64	24.50	1
		1	5	22.65	22.71	22.79	24.50	1
		3	0	22.69	22.64	22.80	24.50	1
		3	2	22.65	22.67	22.85	24.50	1
		3	3	22.68	22.59	22.78	24.50	1
		6	0	21.69	21.56	21.72	23.50	2
1.4	64-QAM	1	0	21.71	21.56	21.83	23.50	2
		1	2	21.61	21.64	21.72	23.50	2
		1	5	21.71	21.61	21.72	23.50	2
		3	0	21.59	21.59	21.78	23.50	2
		3	2	21.68	21.74	21.82	23.50	2
		3	3	21.58	21.61	21.86	23.50	2
		6	0	20.72	20.57	20.74	22.50	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		23.83		25.50	0
		1	25		23.56		25.50	0
		1	49		23.71		25.50	0
		25	0		22.73		24.50	1
		25	12		22.72		24.50	1
		25	25		22.62		24.50	1
		50	0		22.72		24.50	1
10	16-QAM	1	0		22.71		24.50	1
		1	25		22.62		24.50	1
		1	49		22.68		24.50	1
		25	0		21.69		23.50	2
		25	12		21.66		23.50	2
		25	25		21.67		23.50	2
		50	0		21.64		23.50	2
10	64-QAM	1	0		21.63		23.50	2
		1	25		21.69		23.50	2
		1	49		21.64		23.50	2
		25	0		20.67		22.50	3
		25	12		20.61		22.50	3
		25	25		20.70		22.50	3
		50	0		20.59		22.50	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	23.58	23.60	23.59	25.50	0
		1	12	23.52	23.54	23.56	25.50	0
		1	24	23.52	23.51	23.50	25.50	0
		12	0	22.62	22.65	22.63	24.50	1
		12	6	22.64	22.52	22.62	24.50	1
		12	13	22.56	22.52	22.57	24.50	1
		25	0	22.54	22.55	22.64	24.50	1
5	16-QAM	1	0	22.53	22.62	22.54	24.50	1
		1	12	22.58	22.57	22.56	24.50	1
		1	24	22.51	22.59	22.56	24.50	1
		12	0	21.53	21.56	21.58	23.50	2
		12	6	21.50	21.56	21.50	23.50	2
		12	13	21.58	21.52	21.56	23.50	2
		25	0	21.52	21.60	21.50	23.50	2
5	64-QAM	1	0	21.55	21.58	21.63	23.50	2
		1	12	21.52	21.60	21.56	23.50	2
		1	24	21.51	21.53	21.54	23.50	2
		12	0	20.58	20.63	20.51	22.50	3
		12	6	20.50	20.52	20.57	22.50	3
		12	13	20.51	20.51	20.58	22.50	3
		25	0	20.55	20.53	20.55	22.50	3

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LTE Band 14								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					793			
Channel					23330			
10	QPSK	1	0		23.88		25.50	0
		1	25		23.58		25.50	0
		1	49		23.70		25.50	0
		25	0		22.74		24.50	1
		25	12		22.65		24.50	1
		25	25		22.83		24.50	1
		50	0		22.63		24.50	1
10	16-QAM	1	0		22.69		24.50	1
		1	25		22.78		24.50	1
		1	49		22.81		24.50	1
		25	0		21.69		23.50	2
		25	12		21.68		23.50	2
		25	25		21.62		23.50	2
		50	0		21.61		23.50	2
10	64-QAM	1	0		21.65		23.50	2
		1	25		21.71		23.50	2
		1	49		21.65		23.50	2
		25	0		20.65		22.50	3
		25	12		20.78		22.50	3
		25	25		20.67		22.50	3
		50	0		20.78		22.50	3

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LTE Band 14								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				790.5	793	795.5		
Channel				23305	23330	23355		
5	QPSK	1	0	23.68	23.66	23.56	25.50	0
		1	12	23.54	23.56	23.52	25.50	0
		1	24	23.56	23.54	23.53	25.50	0
		12	0	22.56	22.52	22.54	24.50	1
		12	6	22.63	22.59	22.53	24.50	1
		12	13	22.50	22.51	22.52	24.50	1
		25	0	22.51	22.56	22.60	24.50	1
5	16-QAM	1	0	22.51	22.59	22.54	24.50	1
		1	12	22.50	22.61	22.50	24.50	1
		1	24	22.51	22.51	22.54	24.50	1
		12	0	21.57	21.54	21.55	23.50	2
		12	6	21.52	21.52	21.51	23.50	2
		12	13	21.50	21.50	21.54	23.50	2
		25	0	21.51	21.56	21.62	23.50	2
5	64-QAM	1	0	21.56	21.53	21.53	23.50	2
		1	12	21.57	21.54	21.51	23.50	2
		1	24	21.55	21.54	21.53	23.50	2
		12	0	20.58	20.56	20.57	22.50	3
		12	6	20.54	20.51	20.59	22.50	3
		12	13	20.53	20.51	20.50	22.50	3
		25	0	20.65	20.53	20.54	22.50	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	23.72	23.60	23.52	24.50	0
		1	50	23.50	23.50	23.44	24.50	0
		1	99	23.54	23.46	23.35	24.50	0
		50	0	22.54	22.50	22.31	23.50	1
		50	25	22.61	22.50	22.28	23.50	1
		50	50	22.65	22.47	22.31	23.50	1
		100	0	22.59	22.51	22.24	23.50	1
20	16-QAM	1	0	22.63	22.54	22.36	23.50	1
		1	50	22.59	22.45	22.46	23.50	1
		1	99	22.63	22.53	22.32	23.50	1
		50	0	21.58	21.41	21.31	22.50	2
		50	25	21.64	21.45	21.22	22.50	2
		50	50	21.51	21.42	21.42	22.50	2
		100	0	21.61	21.36	21.39	22.50	2
20	64-QAM	1	0	21.45	21.39	21.35	22.50	2
		1	50	21.47	21.48	21.48	22.50	2
		1	99	21.60	21.42	21.39	22.50	2
		50	0	20.55	20.45	20.33	21.50	3
		50	25	20.48	20.48	20.36	21.50	3
		50	50	20.61	20.48	20.39	21.50	3
		100	0	20.59	20.42	20.36	21.50	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	23.65	23.50	23.36	24.50	0
		1	36	23.45	23.52	23.44	24.50	0
		1	74	23.54	23.36	23.39	24.50	0
		36	0	22.44	22.51	22.37	23.50	1
		36	18	22.68	22.42	22.35	23.50	1
		36	37	22.59	22.37	22.34	23.50	1
		75	0	22.54	22.39	22.33	23.50	1
15	16-QAM	1	0	22.59	22.37	22.37	23.50	1
		1	36	22.56	22.54	22.37	23.50	1
		1	74	22.54	22.52	22.47	23.50	1
		36	0	21.52	21.40	21.43	22.50	2
		36	18	21.53	21.52	21.26	22.50	2
		36	37	21.51	21.55	21.22	22.50	2
		75	0	21.63	21.37	21.37	22.50	2
15	64-QAM	1	0	21.56	21.47	21.23	22.50	2
		1	36	21.49	21.36	21.30	22.50	2
		1	74	21.62	21.30	21.30	22.50	2
		36	0	20.53	20.43	20.43	21.50	3
		36	18	20.47	20.35	20.42	21.50	3
		36	37	20.56	20.51	20.26	21.50	3
		75	0	20.49	20.44	20.32	21.50	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	23.50	23.40	23.43	24.50	0
		1	25	23.44	23.39	23.43	24.50	0
		1	49	23.55	23.52	23.27	24.50	0
		25	0	22.60	22.47	22.25	23.50	1
		25	12	22.58	22.44	22.31	23.50	1
		25	25	22.61	22.39	22.34	23.50	1
		50	0	22.51	22.41	22.32	23.50	1
10	16-QAM	1	0	22.50	22.31	22.48	23.50	1
		1	25	22.46	22.37	22.43	23.50	1
		1	49	22.58	22.42	22.41	23.50	1
		25	0	21.59	21.56	21.32	22.50	2
		25	12	21.61	21.53	21.37	22.50	2
		25	25	21.49	21.34	21.39	22.50	2
		50	0	21.54	21.48	21.27	22.50	2
10	64-QAM	1	0	21.63	21.40	21.45	22.50	2
		1	25	21.65	21.48	21.35	22.50	2
		1	49	21.58	21.41	21.49	22.50	2
		25	0	20.51	20.49	20.37	21.50	3
		25	12	20.56	20.35	20.39	21.50	3
		25	25	20.51	20.49	20.31	21.50	3
		50	0	20.54	20.47	20.28	21.50	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	23.59	23.52	23.35	24.50	0
		1	12	23.55	23.43	23.46	24.50	0
		1	24	23.50	23.48	23.41	24.50	0
		12	0	22.42	22.33	22.24	23.50	1
		12	6	22.48	22.45	22.49	23.50	1
		12	13	22.47	22.55	22.44	23.50	1
		25	0	22.61	22.43	22.41	23.50	1
5	16-QAM	1	0	22.51	22.49	22.39	23.50	1
		1	12	22.44	22.43	22.41	23.50	1
		1	24	22.53	22.42	22.35	23.50	1
		12	0	21.56	21.38	21.31	22.50	2
		12	6	21.60	21.56	21.46	22.50	2
		12	13	21.61	21.41	21.37	22.50	2
		25	0	21.54	21.40	21.38	22.50	2
5	64-QAM	1	0	21.48	21.56	21.31	22.50	2
		1	12	21.55	21.34	21.41	22.50	2
		1	24	21.49	21.55	21.31	22.50	2
		12	0	20.68	20.39	20.44	21.50	3
		12	6	20.53	20.52	20.29	21.50	3
		12	13	20.68	20.50	20.26	21.50	3
		25	0	20.58	20.52	20.24	21.50	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	23.64	23.38	23.43	24.50	0
		1	7	23.63	23.49	23.28	24.50	0
		1	14	23.52	23.45	23.27	24.50	0
		8	0	22.68	22.52	22.28	23.50	1
		8	4	22.59	22.41	22.39	23.50	1
		8	7	22.48	22.36	22.35	23.50	1
		15	0	22.58	22.35	22.37	23.50	1
3	16-QAM	1	0	22.46	22.55	22.35	23.50	1
		1	7	22.62	22.43	22.37	23.50	1
		1	14	22.61	22.49	22.49	23.50	1
		8	0	21.49	21.37	21.28	22.50	2
		8	4	21.57	21.45	21.40	22.50	2
		8	7	21.62	21.35	21.27	22.50	2
		15	0	21.60	21.50	21.38	22.50	2
3	64-QAM	1	0	21.49	21.45	21.35	22.50	2
		1	7	21.51	21.43	21.36	22.50	2
		1	14	21.64	21.54	21.35	22.50	2
		8	0	20.51	20.51	20.31	21.50	3
		8	4	20.54	20.53	20.41	21.50	3
		8	7	20.62	20.34	20.30	21.50	3
		15	0	20.60	20.39	20.39	21.50	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	23.64	23.34	23.30	24.50	0
		1	2	23.57	23.43	23.32	24.50	0
		1	5	23.52	23.50	23.27	24.50	0
		3	0	23.66	23.37	23.34	24.50	0
		3	2	23.60	23.37	23.44	24.50	0
		3	3	23.49	23.50	23.36	24.50	0
		6	0	22.44	22.33	22.44	23.50	1
1.4	16-QAM	1	0	22.65	22.53	22.42	23.50	1
		1	2	22.61	22.44	22.30	23.50	1
		1	5	22.59	22.47	22.33	23.50	1
		3	0	22.55	22.43	22.38	23.50	1
		3	2	22.56	22.46	22.44	23.50	1
		3	3	22.52	22.53	22.41	23.50	1
		6	0	21.61	21.37	21.37	22.50	2
1.4	64-QAM	1	0	21.55	21.49	21.47	22.50	2
		1	2	21.48	21.37	21.29	22.50	2
		1	5	21.63	21.52	21.48	22.50	2
		3	0	21.61	21.49	21.34	22.50	2
		3	2	21.51	21.46	21.41	22.50	2
		3	3	21.56	21.35	21.37	22.50	2
		6	0	20.47	20.35	20.39	21.50	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	23.80	23.78	23.66	25.50	0
		1	36	23.68	23.57	23.54	25.50	0
		1	74	23.71	23.67	23.53	25.50	0
		36	0	22.74	22.70	22.57	24.50	1
		36	18	22.55	22.66	22.58	24.50	1
		36	37	22.52	22.59	22.55	24.50	1
		75	0	22.72	22.56	22.55	24.50	1
15	16-QAM	1	0	22.57	22.63	22.50	24.50	1
		1	36	22.65	22.52	22.50	24.50	1
		1	74	22.59	22.66	22.56	24.50	1
		36	0	21.65	21.65	21.51	23.50	2
		36	18	21.55	21.70	21.56	23.50	2
		36	37	21.55	21.65	21.52	23.50	2
		75	0	21.72	21.62	21.55	23.50	2
15	64-QAM	1	0	21.66	21.54	21.52	23.50	2
		1	36	21.57	21.65	21.60	23.50	2
		1	74	21.66	21.55	21.54	23.50	2
		36	0	20.72	20.57	20.58	22.50	3
		36	18	20.60	20.63	20.52	22.50	3
		36	37	20.59	20.59	20.54	22.50	3
		75	0	20.70	20.52	20.54	22.50	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	23.63	23.60	23.59	25.50	0
		1	25	23.66	23.60	23.51	25.50	0
		1	49	23.56	23.53	23.62	25.50	0
		25	0	22.75	22.75	22.51	24.50	1
		25	12	22.72	22.55	22.56	24.50	1
		25	25	22.66	22.59	22.52	24.50	1
		50	0	22.69	22.62	22.51	24.50	1
10	16-QAM	1	0	22.60	22.60	22.51	24.50	1
		1	25	22.56	22.74	22.57	24.50	1
		1	49	22.74	22.67	22.51	24.50	1
		25	0	21.76	21.55	21.52	23.50	2
		25	12	21.62	21.64	21.53	23.50	2
		25	25	21.62	21.53	21.50	23.50	2
		50	0	21.72	21.70	21.51	23.50	2
10	64-QAM	1	0	21.56	21.57	21.50	23.50	2
		1	25	21.60	21.59	21.58	23.50	2
		1	49	21.68	21.56	21.52	23.50	2
		25	0	20.73	20.69	20.58	22.50	3
		25	12	20.58	20.56	20.60	22.50	3
		25	25	20.78	20.53	20.57	22.50	3
		50	0	20.71	20.56	20.53	22.50	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	23.58	23.51	23.51	25.50	0
		1	12	23.69	23.60	23.56	25.50	0
		1	24	23.77	23.66	23.58	25.50	0
		12	0	22.71	22.61	22.51	24.50	1
		12	6	22.76	22.75	22.54	24.50	1
		12	13	22.57	22.62	22.58	24.50	1
		25	0	22.66	22.55	22.54	24.50	1
5	16-QAM	1	0	22.63	22.69	22.53	24.50	1
		1	12	22.63	22.67	22.50	24.50	1
		1	24	22.77	22.64	22.51	24.50	1
		12	0	21.76	21.66	21.53	23.50	2
		12	6	21.54	21.52	21.51	23.50	2
		12	13	21.68	21.61	21.56	23.50	2
		25	0	21.77	21.52	21.57	23.50	2
5	64-QAM	1	0	21.69	21.55	21.52	23.50	2
		1	12	21.58	21.66	21.53	23.50	2
		1	24	21.67	21.71	21.53	23.50	2
		12	0	20.66	20.50	20.56	22.50	3
		12	6	20.66	20.62	20.58	22.50	3
		12	13	20.62	20.70	20.50	22.50	3
		25	0	20.67	20.52	20.57	22.50	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	23.65	23.54	23.57	25.50	0
		1	7	23.63	23.65	23.50	25.50	0
		1	14	23.68	23.67	23.55	25.50	0
		8	0	22.65	22.64	22.51	24.50	1
		8	4	22.73	22.60	22.57	24.50	1
		8	7	22.55	22.65	22.58	24.50	1
		15	0	22.64	22.70	22.52	24.50	1
3	16-QAM	1	0	22.65	22.64	22.54	24.50	1
		1	7	22.71	22.64	22.57	24.50	1
		1	14	22.68	22.68	22.57	24.50	1
		8	0	21.54	21.73	21.54	23.50	2
		8	4	21.71	21.56	21.52	23.50	2
		8	7	21.67	21.69	21.55	23.50	2
		15	0	21.60	21.63	21.51	23.50	2
3	64-QAM	1	0	21.53	21.67	21.55	23.50	2
		1	7	21.62	21.71	21.57	23.50	2
		1	14	21.61	21.60	21.52	23.50	2
		8	0	20.62	20.68	20.56	22.50	3
		8	4	20.70	20.56	20.52	22.50	3
		8	7	20.59	20.66	20.55	22.50	3
		15	0	20.64	20.52	20.57	22.50	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	23.75	23.53	23.58	25.50	0
		1	2	23.63	23.69	23.50	25.50	0
		1	5	23.62	23.53	23.56	25.50	0
		3	0	23.56	23.64	23.50	25.50	0
		3	2	23.63	23.55	23.50	25.50	0
		3	3	23.56	23.61	23.58	25.50	0
		6	0	22.61	22.60	22.55	24.50	1
1.4	16-QAM	1	0	22.68	22.58	22.58	24.50	1
		1	2	22.64	22.60	22.50	24.50	1
		1	5	22.72	22.58	22.57	24.50	1
		3	0	22.68	22.69	22.55	24.50	1
		3	2	22.63	22.68	22.56	24.50	1
		3	3	22.75	22.55	22.52	24.50	1
		6	0	21.57	21.74	21.52	23.50	2
1.4	64-QAM	1	0	21.65	21.66	21.55	23.50	2
		1	2	21.66	21.64	21.52	23.50	2
		1	5	21.70	21.58	21.55	23.50	2
		3	0	21.51	21.57	21.55	23.50	2
		3	2	21.56	21.56	21.58	23.50	2
		3	3	21.61	21.57	21.51	23.50	2
		6	0	20.70	20.54	20.61	22.50	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	22.88	22.98	22.79	24.50	0
		1	50	22.68	22.85	22.64	24.50	0
		1	99	22.78	22.88	22.62	24.50	0
		50	0	21.66	21.94	21.51	23.50	1
		50	25	21.62	21.71	21.67	23.50	1
		50	50	21.67	21.94	21.69	23.50	1
		100	0	21.64	21.78	21.64	23.50	1
20	16-QAM	1	0	21.77	21.86	21.52	23.50	1
		1	50	21.76	21.83	21.64	23.50	1
		1	99	21.75	21.87	21.65	23.50	1
		50	0	20.73	20.87	20.74	22.50	2
		50	25	20.74	20.94	20.67	22.50	2
		50	50	20.68	20.82	20.59	22.50	2
		100	0	20.85	20.81	20.59	22.50	2
20	64-QAM	1	0	20.76	20.81	20.65	22.50	2
		1	50	20.70	20.88	20.69	22.50	2
		1	99	20.76	20.73	20.57	22.50	2
		50	0	19.74	19.83	19.65	21.50	3
		50	25	19.83	19.83	19.65	21.50	3
		50	50	19.65	19.89	19.69	21.50	3
		100	0	19.69	19.84	19.57	21.50	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	22.78	22.80	22.59	24.50	0
		1	36	22.73	22.92	22.61	24.50	0
		1	74	22.73	22.86	22.53	24.50	0
		36	0	21.83	21.81	21.61	23.50	1
		36	18	21.68	21.95	21.60	23.50	1
		36	37	21.62	21.79	21.68	23.50	1
		75	0	21.73	21.85	21.56	23.50	1
15	16-QAM	1	0	21.78	21.84	21.53	23.50	1
		1	36	21.69	21.83	21.66	23.50	1
		1	74	21.78	21.76	21.71	23.50	1
		36	0	20.82	20.84	20.61	22.50	2
		36	18	20.75	20.89	20.64	22.50	2
		36	37	20.77	20.72	20.65	22.50	2
		75	0	20.72	20.80	20.70	22.50	2
15	64-QAM	1	0	20.74	20.74	20.62	22.50	2
		1	36	20.74	20.81	20.57	22.50	2
		1	74	20.68	20.80	20.53	22.50	2
		36	0	19.70	19.81	19.65	21.50	3
		36	18	19.68	19.71	19.60	21.50	3
		36	37	19.76	19.90	19.64	21.50	3
		75	0	19.62	19.79	19.68	21.50	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	22.74	22.75	22.66	24.50	0
		1	25	22.74	22.84	22.54	24.50	0
		1	49	22.74	22.88	22.71	24.50	0
		25	0	21.69	21.87	21.68	23.50	1
		25	12	21.78	21.92	21.56	23.50	1
		25	25	21.76	21.82	21.66	23.50	1
		50	0	21.81	21.85	21.72	23.50	1
10	16-QAM	1	0	21.79	21.79	21.62	23.50	1
		1	25	21.72	21.76	21.72	23.50	1
		1	49	21.71	21.87	21.73	23.50	1
		25	0	20.73	20.95	20.50	22.50	2
		25	12	20.67	20.87	20.55	22.50	2
		25	25	20.71	20.91	20.55	22.50	2
		50	0	20.74	20.92	20.63	22.50	2
10	64-QAM	1	0	20.71	20.77	20.63	22.50	2
		1	25	20.66	20.94	20.62	22.50	2
		1	49	20.78	20.73	20.58	22.50	2
		25	0	19.65	19.79	19.68	21.50	3
		25	12	19.72	19.88	19.60	21.50	3
		25	25	19.66	19.84	19.51	21.50	3
		50	0	19.65	19.68	19.77	21.50	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	22.62	22.88	22.75	24.50	0
		1	12	22.63	22.84	22.77	24.50	0
		1	24	22.68	22.75	22.67	24.50	0
		12	0	21.76	21.82	21.72	23.50	1
		12	6	21.68	21.81	21.62	23.50	1
		12	13	21.82	21.82	21.62	23.50	1
		25	0	21.67	21.82	21.59	23.50	1
5	16-QAM	1	0	21.59	21.89	21.59	23.50	1
		1	12	21.66	21.94	21.54	23.50	1
		1	24	21.81	21.89	21.66	23.50	1
		12	0	20.76	20.74	20.62	22.50	2
		12	6	20.71	20.92	20.67	22.50	2
		12	13	20.71	20.79	20.55	22.50	2
		25	0	20.65	20.80	20.53	22.50	2
5	64-QAM	1	0	20.78	20.79	20.55	22.50	2
		1	12	20.74	20.82	20.66	22.50	2
		1	24	20.68	20.95	20.70	22.50	2
		12	0	19.74	19.84	19.55	21.50	3
		12	6	19.67	19.87	19.54	21.50	3
		12	13	19.68	19.88	19.61	21.50	3
		25	0	19.68	19.88	19.68	21.50	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	22.73	22.85	22.70	24.50	0
		1	7	22.62	22.89	22.59	24.50	0
		1	14	22.64	22.78	22.57	24.50	0
		8	0	21.65	21.85	21.56	23.50	1
		8	4	21.67	21.75	21.67	23.50	1
		8	7	21.72	21.81	21.71	23.50	1
		15	0	21.74	21.86	21.61	23.50	1
3	16-QAM	1	0	21.77	21.70	21.66	23.50	1
		1	7	21.77	21.81	21.71	23.50	1
		1	14	21.80	21.91	21.64	23.50	1
		8	0	20.69	20.84	20.65	22.50	2
		8	4	20.74	20.87	20.71	22.50	2
		8	7	20.81	20.85	20.68	22.50	2
		15	0	20.83	20.71	20.73	22.50	2
3	64-QAM	1	0	20.74	20.83	20.73	22.50	2
		1	7	20.62	20.93	20.70	22.50	2
		1	14	20.73	20.81	20.57	22.50	2
		8	0	19.71	19.75	19.67	21.50	3
		8	4	19.58	19.83	19.55	21.50	3
		8	7	19.66	19.74	19.67	21.50	3
		15	0	19.74	19.73	19.63	21.50	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	22.84	22.82	22.64	24.50	0
		1	2	22.76	22.86	22.69	24.50	0
		1	5	22.70	22.87	22.70	24.50	0
		3	0	22.79	22.82	22.53	24.50	0
		3	2	22.71	22.79	22.73	24.50	0
		3	3	22.74	22.74	22.61	24.50	0
		6	0	21.68	21.73	21.60	23.50	1
1.4	16-QAM	1	0	21.78	21.83	21.74	23.50	1
		1	2	21.70	21.81	21.57	23.50	1
		1	5	21.71	21.83	21.65	23.50	1
		3	0	21.68	21.84	21.61	23.50	1
		3	2	21.73	21.80	21.57	23.50	1
		3	3	21.66	21.72	21.66	23.50	1
		6	0	20.82	20.82	20.65	22.50	2
1.4	64-QAM	1	0	20.62	20.69	20.56	22.50	2
		1	2	20.80	20.93	20.72	22.50	2
		1	5	20.74	20.80	20.66	22.50	2
		3	0	20.79	20.82	20.69	22.50	2
		3	2	20.61	20.72	20.62	22.50	2
		3	3	20.70	20.81	20.52	22.50	2
		6	0	19.80	19.82	19.60	21.50	3

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LTE Band 71								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				673	680.5	688		
Channel				133222	133297	133372		
20	QPSK	1	0	23.80	23.94	23.85	25.50	0
		1	50	23.53	23.83	23.70	25.50	0
		1	99	23.60	23.77	23.67	25.50	0
		50	0	22.71	22.75	22.64	24.50	1
		50	25	22.61	22.83	22.72	24.50	1
		50	50	22.59	22.72	22.73	24.50	1
		100	0	22.57	22.79	22.73	24.50	1
20	16-QAM	1	0	22.62	22.83	22.70	24.50	1
		1	50	22.77	22.82	22.68	24.50	1
		1	99	22.56	22.78	22.63	24.50	1
		50	0	21.63	21.75	21.73	23.50	2
		50	25	21.62	21.81	21.67	23.50	2
		50	50	21.62	21.83	21.60	23.50	2
		100	0	21.68	21.71	21.78	23.50	2
20	64-QAM	1	0	21.71	21.75	21.67	23.50	2
		1	50	21.68	21.80	21.66	23.50	2
		1	99	21.72	21.84	21.64	23.50	2
		50	0	20.53	20.70	20.77	22.50	3
		50	25	20.66	20.87	20.76	22.50	3
		50	50	20.71	20.72	20.56	22.50	3
		100	0	20.76	20.73	20.72	22.50	3

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LTE Band 71								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				670.5	680.5	690.5		
Channel				133197	133297	133397		
15	QPSK	1	0	23.58	23.76	23.71	25.50	0
		1	36	23.70	23.76	23.56	25.50	0
		1	74	23.65	23.68	23.57	25.50	0
		36	0	22.66	22.83	22.69	24.50	1
		36	18	22.62	22.82	22.68	24.50	1
		36	37	22.63	22.83	22.73	24.50	1
		75	0	22.61	22.82	22.66	24.50	1
15	16-QAM	1	0	22.65	22.79	22.81	24.50	1
		1	36	22.67	22.77	22.62	24.50	1
		1	74	22.53	22.80	22.67	24.50	1
		36	0	21.62	21.74	21.59	23.50	2
		36	18	21.74	21.70	21.78	23.50	2
		36	37	21.67	21.76	21.67	23.50	2
		75	0	21.55	21.86	21.73	23.50	2
15	64-QAM	1	0	21.65	21.75	21.71	23.50	2
		1	36	21.56	21.85	21.67	23.50	2
		1	74	21.59	21.84	21.56	23.50	2
		36	0	20.56	20.70	20.70	22.50	3
		36	18	20.61	20.83	20.70	22.50	3
		36	37	20.67	20.76	20.65	22.50	3
		75	0	20.59	20.74	20.59	22.50	3

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LTE Band 71								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				668	680.5	693		
Channel				133172	133297	133422		
10	QPSK	1	0	23.69	23.70	23.63	25.50	0
		1	25	23.57	23.87	23.73	25.50	0
		1	49	23.69	23.86	23.62	25.50	0
		25	0	22.53	22.83	22.68	24.50	1
		25	12	22.57	22.77	22.71	24.50	1
		25	25	22.62	22.70	22.59	24.50	1
		50	0	22.62	22.68	22.78	24.50	1
10	16-QAM	1	0	22.62	22.81	22.68	24.50	1
		1	25	22.69	22.86	22.65	24.50	1
		1	49	22.58	22.69	22.79	24.50	1
		25	0	21.65	21.75	21.69	23.50	2
		25	12	21.66	21.83	21.73	23.50	2
		25	25	21.59	21.83	21.61	23.50	2
		50	0	21.65	21.67	21.68	23.50	2
10	64-QAM	1	0	21.56	21.69	21.71	23.50	2
		1	25	21.62	21.79	21.68	23.50	2
		1	49	21.60	21.83	21.79	23.50	2
		25	0	20.54	20.78	20.63	22.50	3
		25	12	20.66	20.84	20.70	22.50	3
		25	25	20.72	20.88	20.66	22.50	3
		50	0	20.67	20.65	20.80	22.50	3

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LTE Band 71								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				665.5	680.5	695.5		
Channel				133147	133297	133447		
5	QPSK	1	0	23.64	23.74	23.73	25.50	0
		1	12	23.73	23.85	23.61	25.50	0
		1	24	23.64	23.71	23.76	25.50	0
		12	0	22.57	22.86	22.70	24.50	1
		12	6	22.64	22.74	22.71	24.50	1
		12	13	22.58	22.72	22.57	24.50	1
		25	0	22.64	22.77	22.71	24.50	1
5	16-QAM	1	0	22.72	22.75	22.60	24.50	1
		1	12	22.60	22.89	22.66	24.50	1
		1	24	22.58	22.73	22.65	24.50	1
		12	0	21.57	21.87	21.64	23.50	2
		12	6	21.65	21.85	21.67	23.50	2
		12	13	21.70	21.88	21.67	23.50	2
		25	0	21.70	21.74	21.78	23.50	2
5	64-QAM	1	0	21.67	21.74	21.66	23.50	2
		1	12	21.66	21.83	21.72	23.50	2
		1	24	21.54	21.81	21.68	23.50	2
		12	0	20.67	20.85	20.76	22.50	3
		12	6	20.58	20.79	20.66	22.50	3
		12	13	20.67	20.84	20.79	22.50	3
		25	0	20.59	20.81	20.77	22.50	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	22.88	22.89	22.79	24.50	0
		1	50	22.80	22.64	22.56	24.50	0
		1	99	22.77	22.71	22.56	24.50	0
		50	0	21.73	21.67	21.62	23.50	1
		50	25	21.76	21.72	21.61	23.50	1
		50	50	21.61	21.78	21.70	23.50	1
		100	0	21.71	21.70	21.74	23.50	1
20	16-QAM	1	0	21.72	21.77	21.63	23.50	1
		1	50	21.59	21.75	21.65	23.50	1
		1	99	21.72	21.67	21.57	23.50	1
		50	0	20.79	20.75	20.71	22.50	2
		50	25	20.76	20.79	20.64	22.50	2
		50	50	20.67	20.74	20.75	22.50	2
		100	0	20.76	20.82	20.64	22.50	2
20	64-QAM	1	0	20.69	20.72	20.61	22.50	2
		1	50	20.80	20.71	20.60	22.50	2
		1	99	20.72	20.74	20.74	22.50	2
		50	0	19.66	19.76	19.63	21.50	3
		50	25	19.64	19.82	19.59	21.50	3
		50	50	19.66	19.83	19.52	21.50	3
		100	0	19.77	19.76	19.68	21.50	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	22.80	22.79	22.60	24.50	0
		1	36	22.78	22.59	22.58	24.50	0
		1	74	22.72	22.76	22.70	24.50	0
		36	0	21.67	21.81	21.60	23.50	1
		36	18	21.71	21.69	21.65	23.50	1
		36	37	21.70	21.83	21.67	23.50	1
		75	0	21.84	21.75	21.71	23.50	1
15	16-QAM	1	0	21.83	21.76	21.65	23.50	1
		1	36	21.71	21.70	21.58	23.50	1
		1	74	21.71	21.68	21.64	23.50	1
		36	0	20.79	20.80	20.57	22.50	2
		36	18	20.73	20.74	20.59	22.50	2
		36	37	20.75	20.80	20.59	22.50	2
		75	0	20.68	20.73	20.56	22.50	2
15	64-QAM	1	0	20.79	20.82	20.56	22.50	2
		1	36	20.74	20.71	20.64	22.50	2
		1	74	20.70	20.75	20.70	22.50	2
		36	0	19.74	19.73	19.73	21.50	3
		36	18	19.78	19.68	19.71	21.50	3
		36	37	19.63	19.72	19.63	21.50	3
		75	0	19.76	19.77	19.57	21.50	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	22.65	22.82	22.59	24.50	0
		1	25	22.73	22.73	22.60	24.50	0
		1	49	22.73	22.63	22.59	24.50	0
		25	0	21.67	21.77	21.75	23.50	1
		25	12	21.69	21.82	21.62	23.50	1
		25	25	21.62	21.86	21.63	23.50	1
		50	0	21.82	21.71	21.61	23.50	1
10	16-QAM	1	0	21.71	21.77	21.67	23.50	1
		1	25	21.73	21.84	21.54	23.50	1
		1	49	21.80	21.77	21.52	23.50	1
		25	0	20.81	20.69	20.68	22.50	2
		25	12	20.76	20.61	20.53	22.50	2
		25	25	20.81	20.81	20.62	22.50	2
		50	0	20.81	20.71	20.60	22.50	2
10	64-QAM	1	0	20.73	20.75	20.61	22.50	2
		1	25	20.68	20.69	20.59	22.50	2
		1	49	20.75	20.66	20.67	22.50	2
		25	0	19.76	19.80	19.64	21.50	3
		25	12	19.80	19.77	19.59	21.50	3
		25	25	19.67	19.70	19.64	21.50	3
		50	0	19.64	19.79	19.55	21.50	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	22.74	22.78	22.66	24.50	0
		1	12	22.76	22.77	22.63	24.50	0
		1	24	22.76	22.80	22.60	24.50	0
		12	0	21.72	21.61	21.62	23.50	1
		12	6	21.64	21.64	21.57	23.50	1
		12	13	21.72	21.65	21.63	23.50	1
		25	0	21.69	21.79	21.73	23.50	1
5	16-QAM	1	0	21.68	21.86	21.63	23.50	1
		1	12	21.67	21.70	21.72	23.50	1
		1	24	21.80	21.62	21.66	23.50	1
		12	0	20.61	20.78	20.58	22.50	2
		12	6	20.70	20.78	20.61	22.50	2
		12	13	20.71	20.64	20.65	22.50	2
		25	0	20.72	20.71	20.58	22.50	2
5	64-QAM	1	0	20.75	20.72	20.63	22.50	2
		1	12	20.72	20.62	20.71	22.50	2
		1	24	20.67	20.72	20.67	22.50	2
		12	0	19.63	19.67	19.54	21.50	3
		12	6	19.70	19.70	19.63	21.50	3
		12	13	19.67	19.67	19.68	21.50	3
		25	0	19.72	19.63	19.66	21.50	3

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LTE Band 41_PC3										
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	23.10	23.00	22.91	23.12	23.09	24.50	0
		1	50	22.98	22.94	22.63	22.90	23.01	24.50	0
		1	99	22.93	22.86	22.70	22.98	23.04	24.50	0
		50	0	21.94	21.84	21.78	21.92	21.91	23.50	1
		50	25	21.93	21.81	21.80	21.91	22.02	23.50	1
		50	50	22.01	21.89	21.73	22.07	21.87	23.50	1
		100	0	21.91	21.83	21.83	22.06	21.91	23.50	1
20	16-QAM	1	0	21.89	21.81	21.82	21.93	22.01	23.50	1
		1	50	22.02	21.78	21.73	21.96	22.00	23.50	1
		1	99	21.81	21.78	21.75	21.94	21.86	23.50	1
		50	0	20.83	20.76	20.66	21.00	20.91	22.50	2
		50	25	20.98	20.77	20.74	20.88	21.00	22.50	2
		50	50	20.97	20.81	20.77	20.90	20.91	22.50	2
		100	0	20.96	20.93	20.75	20.97	20.92	22.50	2
20	64-QAM	1	0	20.93	20.81	20.76	20.94	20.95	22.50	2
		1	50	20.91	20.72	20.77	20.98	21.01	22.50	2
		1	99	21.01	20.78	20.79	20.87	21.01	22.50	2
		50	0	19.95	19.83	19.76	19.94	19.94	21.50	3
		50	25	19.94	19.86	19.65	19.90	19.97	21.50	3
		50	50	19.92	19.91	19.77	20.02	19.96	21.50	3
		100	0	19.96	19.95	19.66	19.84	19.89	21.50	3

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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	23.02	22.83	22.82	22.91	22.90	24.50	0
		1	36	22.91	22.85	22.75	22.99	22.87	24.50	0
		1	74	22.95	22.85	22.75	23.04	22.95	24.50	0
		36	0	21.94	21.95	21.69	22.00	21.90	23.50	1
		36	18	21.85	21.81	21.69	22.00	21.91	23.50	1
		36	37	21.96	21.75	21.75	21.95	21.86	23.50	1
		75	0	21.91	21.72	21.80	21.93	21.94	23.50	1
15	16-QAM	1	0	21.97	21.84	21.67	21.88	21.96	23.50	1
		1	36	21.88	21.89	21.74	21.99	21.96	23.50	1
		1	74	21.96	21.79	21.75	21.89	21.94	23.50	1
		36	0	21.01	20.87	20.70	21.01	20.84	22.50	2
		36	18	21.04	20.97	20.71	20.97	21.00	22.50	2
		36	37	20.88	20.91	20.66	20.97	20.96	22.50	2
		75	0	20.85	20.81	20.63	20.87	20.93	22.50	2
15	64-QAM	1	0	20.85	20.93	20.74	20.98	20.90	22.50	2
		1	36	20.92	20.83	20.76	21.07	20.94	22.50	2
		1	74	20.86	20.79	20.81	20.95	20.88	22.50	2
		36	0	19.97	19.90	19.74	19.96	19.83	21.50	3
		36	18	20.02	19.85	19.67	19.92	19.80	21.50	3
		36	37	19.92	19.98	19.83	19.98	19.86	21.50	3
		75	0	19.95	19.92	19.75	20.06	20.05	21.50	3

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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	22.88	22.90	22.74	22.99	22.90	24.50	0
		1	25	22.91	22.74	22.73	22.92	22.89	24.50	0
		1	49	22.88	22.86	22.70	22.92	22.86	24.50	0
		25	0	21.99	21.84	21.62	22.00	21.96	23.50	1
		25	12	21.92	21.91	21.74	22.02	22.06	23.50	1
		25	25	21.96	21.86	21.84	21.98	21.83	23.50	1
10	16-QAM	50	0	21.92	21.80	21.75	22.02	21.98	23.50	1
		1	0	21.91	21.88	21.76	21.89	21.95	23.50	1
		1	25	21.99	21.85	21.78	21.94	22.05	23.50	1
		1	49	21.86	21.74	21.81	21.92	21.88	23.50	1
		25	0	20.94	20.91	20.66	21.10	21.00	22.50	2
		25	12	21.02	20.73	20.74	20.99	20.95	22.50	2
10	64-QAM	25	25	20.95	20.96	20.83	20.91	20.98	22.50	2
		50	0	21.04	20.94	20.84	21.09	20.94	22.50	2
		1	0	20.87	20.85	20.67	20.91	20.97	22.50	2
		1	25	20.88	20.89	20.72	20.85	20.91	22.50	2
		1	49	20.89	20.83	20.71	21.01	20.93	22.50	2
		25	0	19.96	19.77	19.73	19.86	19.89	21.50	3
		25	12	19.93	19.90	19.76	19.93	19.90	21.50	3
		25	25	19.96	19.83	19.87	19.94	20.05	21.50	3
		50	0	19.92	19.80	19.85	20.03	19.98	21.50	3

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LTE Band 41_PC3										
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	23.02	22.81	22.74	22.98	22.94	24.50	0
		1	12	22.85	22.83	22.89	22.88	22.84	24.50	0
		1	24	22.88	22.86	22.71	23.06	23.02	24.50	0
		12	0	21.90	21.79	21.69	21.90	21.87	23.50	1
		12	6	21.99	21.86	21.76	22.10	22.02	23.50	1
		12	13	21.91	21.78	21.73	21.92	21.96	23.50	1
5	16-QAM	25	0	21.94	21.88	21.73	22.00	21.91	23.50	1
		1	0	21.93	21.82	21.66	21.97	21.96	23.50	1
		1	12	22.02	21.92	21.78	21.87	21.96	23.50	1
		1	24	21.96	21.82	21.79	21.93	21.97	23.50	1
		12	0	20.92	20.90	20.77	20.91	20.81	22.50	2
		12	6	20.87	20.85	20.84	21.01	21.01	22.50	2
5	64-QAM	12	13	20.91	20.88	20.84	21.03	20.94	22.50	2
		25	0	20.93	20.90	20.77	20.87	20.95	22.50	2
		1	0	21.01	20.85	20.72	20.93	20.90	22.50	2
		1	12	21.03	20.89	20.67	20.96	20.90	22.50	2
		1	24	20.98	20.84	20.81	20.89	20.92	22.50	2
		12	0	19.83	19.86	19.83	19.97	19.85	21.50	3
		12	6	19.84	19.77	19.73	19.91	20.03	21.50	3
		12	13	19.86	19.84	19.71	19.98	19.95	21.50	3
		25	0	19.83	19.84	19.73	20.01	19.79	21.50	3

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LTE Band 48									
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)				Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3560	3609	3641	3690		
Channel				55340	55830	56150	56640		
20	QPSK	1	0	20.70	20.63	20.71	20.79	22.00	0
		1	50	20.53	20.45	20.42	20.72	22.00	0
		1	99	20.50	20.42	20.54	20.64	22.00	0
		50	0	19.48	19.53	19.51	19.55	21.00	1
		50	25	19.40	19.47	19.50	19.63	21.00	1
		50	50	19.52	19.56	19.50	19.65	21.00	1
		100	0	19.53	19.45	19.54	19.56	21.00	1
20	16-QAM	1	0	19.59	19.48	19.65	19.64	21.00	1
		1	50	19.59	19.50	19.52	19.57	21.00	1
		1	99	19.43	19.42	19.50	19.64	21.00	1
		50	0	18.41	18.36	18.48	18.62	20.00	2
		50	25	18.60	18.45	18.51	18.61	20.00	2
		50	50	18.45	18.45	18.47	18.69	20.00	2
		100	0	18.47	18.48	18.48	18.62	20.00	2
20	64-QAM	1	0	18.51	18.42	18.50	18.63	20.00	2
		1	50	18.66	18.45	18.52	18.49	20.00	2
		1	99	18.65	18.44	18.50	18.55	20.00	2
		50	0	17.60	17.44	17.42	17.67	19.00	3
		50	25	17.53	17.36	17.49	17.63	19.00	3
		50	50	17.62	17.48	17.45	17.72	19.00	3
		100	0	17.58	17.44	17.66	17.57	19.00	3

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)				Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3557.5	3608	3642	3692.5		
Channel				55315	55820	56160	56665		
15	QPSK	1	0	20.54	20.43	20.55	20.56	22.00	0
		1	36	20.61	20.49	20.48	20.68	22.00	0
		1	74	20.58	20.48	20.55	20.72	22.00	0
		36	0	19.60	19.48	19.50	19.61	21.00	1
		36	18	19.65	19.50	19.55	19.72	21.00	1
		36	37	19.62	19.44	19.53	19.68	21.00	1
		75	0	19.51	19.41	19.53	19.65	21.00	1
15	16-QAM	1	0	19.43	19.54	19.58	19.66	21.00	1
		1	36	19.55	19.40	19.65	19.68	21.00	1
		1	74	19.43	19.37	19.53	19.63	21.00	1
		36	0	18.64	18.43	18.48	18.67	20.00	2
		36	18	18.54	18.55	18.58	18.71	20.00	2
		36	37	18.58	18.48	18.61	18.60	20.00	2
		75	0	18.61	18.50	18.55	18.63	20.00	2
15	64-QAM	1	0	18.42	18.48	18.56	18.69	20.00	2
		1	36	18.45	18.48	18.53	18.68	20.00	2
		1	74	18.46	18.51	18.49	18.71	20.00	2
		36	0	17.62	17.45	17.51	17.67	19.00	3
		36	18	17.53	17.55	17.55	17.62	19.00	3
		36	37	17.56	17.44	17.58	17.50	19.00	3
		75	0	17.59	17.56	17.48	17.64	19.00	3

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BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)				Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3555	3607.5	3642.5	3695		
Channel				55290	55815	56165	56690		
10	QPSK	1	0	20.50	20.40	20.57	20.68	22.00	0
		1	25	20.63	20.48	20.54	20.60	22.00	0
		1	49	20.54	20.48	20.51	20.72	22.00	0
		25	0	19.53	19.44	19.44	19.59	21.00	1
		25	12	19.67	19.49	19.50	19.58	21.00	1
		25	25	19.62	19.46	19.60	19.59	21.00	1
		50	0	19.45	19.52	19.65	19.69	21.00	1
10	16-QAM	1	0	19.56	19.43	19.55	19.74	21.00	1
		1	25	19.60	19.46	19.57	19.66	21.00	1
		1	49	19.56	19.47	19.58	19.57	21.00	1
		25	0	18.57	18.33	18.57	18.53	20.00	2
		25	12	18.55	18.52	18.55	18.50	20.00	2
		25	25	18.49	18.48	18.55	18.68	20.00	2
		50	0	18.60	18.45	18.54	18.67	20.00	2
10	64-QAM	1	0	18.61	18.46	18.46	18.63	20.00	2
		1	25	18.53	18.44	18.67	18.77	20.00	2
		1	49	18.54	18.43	18.52	18.63	20.00	2
		25	0	17.52	17.48	17.54	17.65	19.00	3
		25	12	17.52	17.50	17.60	17.73	19.00	3
		25	25	17.57	17.42	17.66	17.57	19.00	3
		50	0	17.48	17.47	17.53	17.67	19.00	3

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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SGS Taiwan Ltd.

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LTE Band 48									
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)				Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3552.5	3607	3643	3697.5		
Channel				55265	55810	56170	56715		
5	QPSK	1	0	20.47	20.44	20.44	20.60	22.00	0
		1	12	20.56	20.51	20.42	20.60	22.00	0
		1	24	20.53	20.53	20.69	20.52	22.00	0
		12	0	19.47	19.52	19.41	19.72	21.00	1
		12	6	19.58	19.45	19.46	19.66	21.00	1
		12	13	19.60	19.45	19.55	19.60	21.00	1
		25	0	19.57	19.40	19.46	19.61	21.00	1
5	16-QAM	1	0	19.61	19.47	19.56	19.67	21.00	1
		1	12	19.58	19.54	19.53	19.56	21.00	1
		1	24	19.48	19.50	19.51	19.56	21.00	1
		12	0	18.49	18.48	18.58	18.58	20.00	2
		12	6	18.61	18.40	18.51	18.72	20.00	2
		12	13	18.60	18.55	18.61	18.74	20.00	2
		25	0	18.62	18.38	18.62	18.68	20.00	2
5	64-QAM	1	0	18.52	18.57	18.46	18.74	20.00	2
		1	12	18.54	18.56	18.41	18.65	20.00	2
		1	24	18.57	18.43	18.53	18.72	20.00	2
		12	0	17.57	17.56	17.52	17.63	19.00	3
		12	6	17.41	17.58	17.58	17.57	19.00	3
		12	13	17.60	17.34	17.50	17.51	19.00	3
		25	0	17.57	17.41	17.59	17.67	19.00	3

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5.4 LTE DL CA

LTE Downlink 2CA conducted power table

Two Component Carrier Maximum Conducted Power															
PCC									SCC				Power		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)	
2	20	19100	1900	QPSK	1	0	1100	1980	2	5	625	1932.5	23.73	23.88	CA 2A-2A
2	20	19100	1900	QPSK	1	0	1100	1980	5	10	2525	881.5	23.73	23.73	CA 2A-5A
2	20	19100	1900	QPSK	1	0	1100	1980	7	20	3100	2655	23.70	23.74	CA 2A-7A
2	20	19100	1900	QPSK	1	0	1100	1980	12	10	5095	737.5	23.75	23.82	CA 2A-12A
2	20	19100	1900	QPSK	1	0	1100	1980	13	10	5230	751	23.75	23.82	CA 2A-13A
2	20	19100	1900	QPSK	1	0	1100	1980	14	10	5330	763	23.77	23.84	CA 2A-14A
2	20	19100	1900	QPSK	1	0	1100	1980	71	20	68761	634.5	23.82	23.87	CA 2A-71A
4	20	20050	1720	QPSK	1	0	2050	2120	4	5	2375	2152.5	23.72	23.81	CA 4A-4A
4	10	20050	1720	QPSK	1	0	2050	2120	5	10	2525	881.5	23.70	23.78	CA 4A-5A
4	10	20050	1720	QPSK	1	0	2050	2120	7	20	3100	2655	23.69	23.76	CA 4A-7A
4	10	20050	1720	QPSK	1	0	2050	2120	12	10	5095	737.5	23.64	23.74	CA 4A-12A
4	20	20050	1720	QPSK	1	0	2050	2120	13	10	5230	751	23.65	23.74	CA 4A-13A
4	20	20050	1720	QPSK	1	0	2050	2120	71	20	68761	634.5	23.78	23.83	CA 4A-71A
5	10	20600	844	QPSK	1	0	2600	889	66	20	66886	2155	23.66	23.67	CA 5A-66A
7	20	21350	2560	QPSK	1	0	3350	2680	7	5	2775	2622.5	23.26	23.34	CA 7A-7A
7	20	21350	2560	QPSK	1	0	3350	2680	12	10	5095	737.5	23.24	23.26	CA 7A-12A
12	10	23130	711	QPSK	1	0	5130	741	66	10	66886	2155	23.43	23.47	CA 12A-66A
13	10	23230	782	QPSK	1	0	5230	751	66	20	66886	2155	23.49	23.51	CA 13A-66A
14	10	23330	793	QPSK	1	0	5330	763	66	20	66886	2155	23.45	23.47	CA 14A-66A
25	20	26365	1882.5	QPSK	1	0	8365	1962.5	25	5	8665	1992.5	23.67	23.77	CA 25A-25A
25	20	26365	1882.5	QPSK	1	0	8365	1962.5	26	15	8865	876.5	23.77	23.82	CA 25A-26A
26	15	26965	841.5	QPSK	1	0	8965	886.5	41	20	40620	2593	23.59	23.66	CA 26A-41A
41	20	40185	2549.5	QPSK	1	0	40185	2549.5	41	5	41565	2687.5	23.31	23.34	CA 41A-41A
42	20	41690	3410	QPSK	1	0	41690	3410	42	5	43565	3597.5	23.52	23.53	CA 42A-42A
48	20	56150	3641	QPSK	1	0	56150	3641	48	5	55265	3552.5	23.53	23.60	CA 48A-48A
66	20	132322	1745	QPSK	1	0	66886	2155	66	5	67311	2197.5	23.47	23.56	CA 66A-66A
66	20	132322	1745	QPSK	1	0	66886	2155	71	20	68761	634.5	23.46	23.47	CA 66A-71A
2	20	19100	1900	QPSK	1	0	1100	1980	2	20	902	1960.2	23.62	23.68	CA 2C
5	10	20600	844	QPSK	1	0	2600	889	5	10	879.1	2501	23.65	23.69	CA 5B
7	15	21375	2562.5	QPSK	1	0	3375	2682.5	7	5	2673.2	3282	23.34	23.36	CA 7B
7	20	21350	2560	QPSK	1	0	3350	2680	7	20	3152	2660.2	23.32	23.34	CA 7C
12	10	23130	711	QPSK	1	0	5130	741	12	10	5031	731.1	23.46	23.54	CA 12B
41	20	40185	2549.5	QPSK	1	0	40185	2549.5	41	20	40383	2569.3	23.42	23.50	CA 41C
42	20	41690	3410	QPSK	1	0	41690	3410	42	20	41888	3429.8	23.59	23.60	CA 42C
43	20	44590	3700	QPSK	1	0	44590	3700	43	20	44392	3680.2	23.51	23.54	CA 43C
48	20	56150	3641	QPSK	1	0	56150	3641	48	20	55952	3621.2	23.52	23.61	CA 48C
66	15	132322	1745	QPSK	1	0	66886	2155	66	5	66736	2140	23.36	23.42	CA 66B
66	20	132322	1745	QPSK	1	0	66886	2155	66	20	67084	2164.8	23.45	23.49	CA 66C

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LTE Downlink 3CA conducted power table

Three Component Carrier Maximum Conducted Power																				
PCC										SCC 1				SCC 2				Power		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]	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)		
2	20	18700	1860	QPSK	1	0	700	1940	2	5	1175	1987.5	5	10	2525	881.5	22.53	22.68	CA 2A-2A-5A	
2	20	18700	1860	QPSK	1	0	700	1940	2	5	1175	1987.5	13	10	5230	751	22.51	22.76	CA 2A-2A-13A	
2	20	18700	1860	QPSK	1	0	700	1940	2	5	1175	1987.5	14	10	5330	763	22.43	22.60	CA 2A-2A-14A	
2	20	18700	1860	QPSK	1	0	700	1940	2	5	1175	1987.5	71	20	68761	634.5	22.34	22.52	CA 2A-2A-71A	
2	20	18700	1860	QPSK	1	0	700	1940	4	20	2175	2132.5	5	10	2525	881.5	22.45	22.65	CA 2A-4A-5A	
2	20	18700	1860	QPSK	1	0	700	1940	4	20	2175	2132.5	12	10	5130	741	22.43	22.53	CA 2A-4A-12A	
2	20	18700	1860	QPSK	1	0	700	1940	4	20	2175	2132.5	13	10	5230	751	22.52	22.69	CA 2A-4A-13A	
2	20	18700	1860	QPSK	1	0	700	1940	4	20	2175	2132.5	71	20	68761	634.5	22.44	22.54	CA 2A-4A-71A	
2	20	18700	1860	QPSK	1	0	700	1940	10	20	2525	881.5	48	20	56640	3690	22.42	22.51	CA 2A-5A-48A	
2	20	18700	1860	QPSK	1	0	700	1940	13	10	5230	751	48	20	56640	3690	22.43	22.48	CA 2A-13A-48A	
2	20	18700	1860	QPSK	1	0	700	1940	48	20	56150	3641	48	20	56348	3660.8	22.37	22.58	CA 2A-48C	
2	20	18700	1860	QPSK	1	0	700	1940	66	20	66786	2145	71	20	68761	634.5	22.37	22.52	CA 2A-66A-71A	
2	20	18700	1860	QPSK	1	0	700	1940	66	15	66786	2145	66	5	66879	2154.3	22.34	22.44	CA 2A-66B	
2	20	18700	1860	QPSK	1	0	700	1940	66	20	66786	2145	66	20	66984	2164.8	22.54	22.72	CA 2A-66C	
2	20	18700	1860	QPSK	1	0	700	1940	2	20	18898	1879.8	5	10	2525	881.5	22.45	22.71	CA 2C-5A	
2	20	18700	1860	QPSK	1	0	700	1940	2	20	18898	1879.8	12	10	5130	741	22.44	22.48	CA 2C-12A	
2	20	18700	1860	QPSK	1	0	700	1940	2	20	18898	1879.8	66	20	66786	2145	22.5	22.70	CA 2C-66A	
4	20	20300	1745	QPSK	1	0	2300	2145	4	5	1975	2112.5	5	10	2525	881.5	22.75	22.89	CA 4A-4A-5A	
4	20	20300	1745	QPSK	1	0	2300	2145	4	5	1975	2112.5	7	20	3100	2655	22.8	22.94	CA 4A-4A-7A	
4	20	20300	1745	QPSK	1	0	2300	2145	4	5	1975	2112.5	12	10	5130	741	22.59	22.86	CA 4A-4A-12A	
4	20	20300	1745	QPSK	1	0	2300	2145	4	5	1975	2112.5	13	10	5230	751	22.78	22.83	CA 4A-4A-13A	
4	20	20300	1745	QPSK	1	0	2300	2145	4	5	1975	2112.5	71	20	68761	634.5	22.75	22.78	CA 4A-4A-71A	
4	20	20300	1745	QPSK	1	0	2300	2145	5	10	2525	881.5	5	10	2624	891.4	22.51	22.68	CA 4A-5B	
4	20	20300	1745	QPSK	1	0	2300	2145	7	20	3100	2655	7	5	2775	2622.5	22.71	22.83	CA 4A-7A-7A	
4	20	20300	1745	QPSK	1	0	2300	2145	7	20	3100	2655	12	10	5130	741	22.74	22.94	CA 4A-7A-12A	
4	20	20300	1745	QPSK	1	0	2300	2145	7	20	3100	2655	7	20	3298	2674.8	22.66	22.76	CA 4A-7C	
4	20	20300	1745	QPSK	1	0	2300	2145	12	10	5095	737.5	12	5	5130	741	22.58	22.88	CA 4A-12A-12A	
4	20	20300	1745	QPSK	1	0	2300	2145	12	10	5095	737.5	12	10	5194	747.4	22.72	22.87	CA 4A-12B	
4	20	20300	1745	QPSK	1	0	2300	2145	48	20	56150	3641	48	20	56348	3660.8	22.67	22.90	CA 4A-48C	
5	10	20450	829	QPSK	1	0	2300	2145	5	2625	891.5	66	20	66786	2145	23.46	23.64	CA 5A-66A		
5	10	20450	829	QPSK	1	0	2450	874	7	20	3100	2655	7	5	2775	2622.5	23.51	23.59	CA 5A-7A-7A	
5	10	20450	829	QPSK	1	0	2450	874	7	20	3100	2655	7	20	3298	2674.8	23.4	23.48	CA 5A-7C	
5	10	20450	829	QPSK	1	0	2450	874	48	20	56150	3641	66	20	66786	2145	23.5	23.61	CA 5A-48A-66A	
5	10	20450	829	QPSK	1	0	2450	874	48	20	56150	3641	48	20	56348	3660.8	23.39	23.41	CA 5A-48C	
5	10	20450	829	QPSK	1	0	2450	874	66	20	66786	2145	66	5	66461	2112.5	23.36	23.52	CA 5A-66A-66A	
5	10	20450	829	QPSK	1	0	2450	874	66	15	66786	2145	66	5	66879	2154.3	23.36	23.63	CA 5A-66B	
5	10	20450	829	QPSK	1	0	2450	874	66	20	66786	2145	66	20	66984	2164.8	23.47	23.69	CA 5A-66C	
5	10	20450	829	QPSK	1	0	2450	874	5	10	20549	838.9	66	20	66786	2145	23.48	23.54	CA 5B-66A	
12	10	23130	711	QPSK	1	0	5130	741	66	20	66786	2145	66	5	66461	2112.5	23.52	23.63	CA 12A-66A-66A	
12	10	23130	711	QPSK	1	0	5130	741	66	15	66786	2145	66	5	66879	2154.3	23.54	23.72	CA 12A-66B	
13	10	23230	782	QPSK	1	0	5230	751	48	20	56150	3641	48	20	56348	3660.8	23.32	23.49	CA 13A-48C	
13	10	23230	782	QPSK	1	0	5230	751	66	20	66786	2145	66	5	66461	2112.5	23.39	23.57	CA 13A-66A-66A	
13	10	23230	782	QPSK	1	0	5230	751	66	15	66786	2145	66	5	66879	2154.3	23.43	23.50	CA 13A-66B	
13	10	23230	782	QPSK	1	0	5230	751	66	20	66786	2145	66	20	66984	2164.8	23.47	23.67	CA 13A-66C	
14	10	23330	793	QPSK	1	0	5330	763	66	20	66786	2145	66	5	66461	2112.5	23.38	23.55	CA 14A-66A-66A	
25	20	26140	1860	QPSK	1	0	8140	1940	25	5	8665	1992.5	26	15	8865	876.5	23.26	23.36	CA 25A-25A-26A	
26	15	26765	821.5	QPSK	1	0	8765	866.5	41	20	40620	2593	41	5	41565	2687.5	23.31	23.55	CA 26A-41A-41A	
26	15	26765	821.5	QPSK	1	0	8765	866.5	41	20	40620	2593	41	20	40818	2612.8	23.4	23.43	CA 26A-41C	
41	20	39750	2506	QPSK	1	0	39750	2506	41	5	41565	2687.5	41	20	41448	2675.8	22.8	22.87	CA 41A-41C	
66	20	132322	1745	QPSK	1	0	66786	2145	66	5	66461	2112.5	71	20	68761	634.5	22.62	22.81	CA 66A-66A-71A	
66	20	132322	1745	QPSK	1	0	66786	2145	66	5	66461	2112.5	66	15	66554	2121.8	22.57	22.69	CA 66A-66B	
66	20	132322	1745	QPSK	1	0	66786	2145	66	5	66461	2112.5	66	20	66578	2124.2	22.56	22.85	CA 66A-66C	
66	20	132322	1745	QPSK	1	0	66786	2145	66	20	132520	1764.8	71	20	68761	634.5	22.44	22.59	CA 66C-71A	
66	20	132322	1745	QPSK	1	0	66786	2145	66	20	132520	1764.8	66	20	132322	1745	22.48	22.74	CA 66D	

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LTE CA information**A)**

The device supports downlink LTE Carrier Aggregation (CA) only. It supports a maximum of 3 carriers in the downlink.

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	Index	3CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA 2A-2A		3CC #1	3CC #1	CA 2A-2A-5A		NO
2CC #2	CA 2A-4A		3CC #5	3CC #2	CA 2A-2A-13A		NO
2CC #3	CA 2A-5A		3CC #9	3CC #3	CA 2A-2A-14A		NO
2CC #4	CA 2A-12A		3CC #12	3CC #4	CA 2A-2A-71A		NO
2CC #5	CA 2A-13A		3CC #13	3CC #5	CA 2A-4A-5A		NO
2CC #6	CA 2A-14A		3CC #3	3CC #6	CA 2A-4A-12A		NO
2CC #7	CA 2A-66A		3CC #15	3CC #7	CA 2A-4A-13A		NO
2CC #8	CA 2A-71A		3CC #4	3CC #8	CA 2A-4A-71A		NO
2CC #9	CA 4A-4A		3CC #21	3CC #9	CA 2A-5A-48A		NO
2CC #10	CA 4A-5A		3CC #21	3CC #10	CA 2A-5A-66A		NO
2CC #11	CA 4A-7A		3CC #22	3CC #11	CA 2A-5B		NO
2CC #12	CA 4A-12A		3CC #23	3CC #12	CA 2A-12A-12A		NO
2CC #13	CA 4A-13A		3CC #24	3CC #13	CA 2A-13A-48A		NO
2CC #14	CA 4A-71A		3CC #25	3CC #14	CA 2A-48C		NO
2CC #15	CA 5A-5A		3CC #33	3CC #15	CA 2A-66A-71A		NO
2CC #16	CA 5A-7A		3CC #34	3CC #16	CA 2A-66B		NO
2CC #17	CA 5A-25A		NO	3CC #17	CA 2A-66C		NO
2CC #18	CA 5A-38A		NO	3CC #18	CA 2C-5A		NO
2CC #19	CA 5A-41A		NO	3CC #19	CA 2C-12A		NO
2CC #20	CA 5A-66A		3CC #33	3CC #20	CA 2C-66A		NO
2CC #21	CA 7A-7A		3CC #27	3CC #21	CA 4A-4A-5A		NO
2CC #22	CA 7A-12A		3CC #28	3CC #22	CA 4A-4A-7A		NO
2CC #23	CA 12A-12A		3CC #30	3CC #23	CA 4A-4A-12A		NO
2CC #24	CA 12A-25A		NO	3CC #24	CA 4A-4A-13A		NO
2CC #25	CA 12A-66A		3CC #42	3CC #25	CA 4A-4A-71A		NO
2CC #26	CA 13A-66A		3CC #47	3CC #26	CA 4A-5B		NO
2CC #27	CA 14A-66A		3CC #50	3CC #27	CA 4A-7A-7A		NO
2CC #28	CA 25A-25A		3CC #51	3CC #28	CA 4A-7A-12A		NO
2CC #29	CA 25A-26A		3CC #51	3CC #29	CA 4A-7C		NO
2CC #30	CA 26A-41A		NO	3CC #30	CA 4A-12A-12A		NO
2CC #31	CA 41A-41A		NO	3CC #31	CA 4A-12B		NO
2CC #32	CA 66A-66A		3CC #61	3CC #32	CA 4A-48C		NO
2CC #33	CA 66A-71A		3CC #61	3CC #33	CA 5A-5A-66A		NO
2CC #34	CA 2C		3CC #18	3CC #34	CA 5A-7A-7A		NO
2CC #35	CA 5B		3CC #11	3CC #35	CA 5A-7C		NO
2CC #36	CA 7B		NO	3CC #36	CA 5A-48A-66A		NO
2CC #37	CA 7C		3CC #29	3CC #37	CA 5A-48C		NO
2CC #38	CA 12B		3CC #31	3CC #38	CA 5A-66A-66A		NO
2CC #39	CA 38C		NO	3CC #39	CA 5A-66B		NO
2CC #40	CA 41C		3CC #53	3CC #40	CA 5A-66C		NO
2CC #41	CA 48C		3CC #14	3CC #41	CA 5B-66A		NO
2CC #42	CA 66B		3CC #16	3CC #42	CA 12A-66A-66A		NO
2CC #43	CA 66C		3CC #17	3CC #43	CA 12A-66B		NO
				3CC #44	CA 12A-66C		NO
				3CC #45	CA 13A-48C		NO
				3CC #46	CA 13A-48A-66A		NO
				3CC #47	CA 13A-66A-66A		NO
				3CC #48	CA 13A-66B		NO
				3CC #49	CA 13A-66C		NO
				3CC #50	CA 14A-66A-66A		NO
				3CC #51	CA 25A-25A-26A		NO
				3CC #52	CA 26A-41A-41A		NO
				3CC #53	CA 26A-41C		NO
				3CC #54	CA 41A-41C		NO
				3CC #55	CA 41D		NO
				3CC #56	CA 48A-66A-66A		NO
				3CC #57	CA 48A-66B		NO
				3CC #58	CA 48A-66C		NO
				3CC #59	CA 48C-66A		NO
				3CC #60	CA 48D		NO
				3CC #61	CA 66A-66A-71A		NO
				3CC #62	CA 66A-66B		NO
				3CC #63	CA 66A-66C		NO
				3CC #64	CA 66C-71A		NO
				3CC #65	CA 66D		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 V16.6.0.
- 2) The reference test frequencies for CA refers to 3GPP TS 36.508 V16.6.0
- 3) Testing is not required in bands or modes not intended/allowed for US operation
- 4) Based on TCB workshop April 2018, only indicate "No" in CA combination table need power measurement

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5.6 LTE Intra-Band UL CA

CA_5B														
Combination 50RB + 50RB (10MHz + 10MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	829	20450	1	49	10	QPSK	838.9	20549	1	0	0	23.76	25.50
10	QPSK	831.6	20476	1	49	10	QPSK	841.5	20575	1	0	0	23.73	25.50
10	QPSK	834.1	20501	1	49	10	QPSK	844	20600	1	0	0	23.79	25.50
CA_5B														
Combination 50RB + 25RB (10MHz + 5MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	829	20450	1	49	5	QPSK	836.2	20522	1	0	0	23.73	25.50
10	QPSK	834	20500	1	49	5	QPSK	841.2	20572	1	0	0	23.72	25.50
10	QPSK	839	20550	1	49	5	QPSK	846.2	20622	1	0	0	23.67	25.50
CA_7C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	20	QPSK	2529.8	21048	1	0	0	22.79	24.50
20	QPSK	2525.1	21001	1	99	20	QPSK	2544.9	21199	1	0	0	22.93	24.50
20	QPSK	2540.2	21152	1	99	20	QPSK	2560	21350	1	0	0	22.79	24.50
CA_7C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.8	20828	1	74	20	QPSK	2524.9	20999	1	0	0	22.57	24.50
15	QPSK	2525.3	21003	1	74	20	QPSK	2542.4	21174	1	0	0	22.54	24.50
15	QPSK	2560	21350	1	74	20	QPSK	2577.1	21521	1	0	0	22.68	24.50
CA_7C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	15	QPSK	2522.5	20975	1	0	0	22.71	24.50
15	QPSK	2527.5	21025	1	74	15	QPSK	2542.5	21175	1	0	0	22.70	24.50
15	QPSK	2547.5	21225	1	74	15	QPSK	2562.5	21375	1	0	0	22.54	24.50
CA_7C														
Combination 75RB + 50RB (15MHz + 10MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	10	QPSK	2519.5	20945	1	0	0	22.60	24.50
15	QPSK	2530.1	21051	1	74	10	QPSK	2542.1	21171	1	0	0	22.63	24.50
15	QPSK	2552.7	21277	1	74	10	QPSK	2564.7	21397	1	0	0	22.61	24.50
CA_7C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	2505.5	20805	1	49	20	QPSK	2519.9	20949	1	0	0	22.61	24.50
10	QPSK	2525.6	21006	1	49	20	QPSK	2540	21150	1	0	0	22.53	24.50
10	QPSK	2545.6	21206	1	49	20	QPSK	2560	21350	1	0	0	22.56	24.50
CA_41C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	2506	39750	1	99	20	QPSK	2525.8	39948	1	0	0	22.79	24.50
20	QPSK	2583.1	40521	1	99	20	QPSK	2602.9	40719	1	0	0	22.82	24.50
20	QPSK	2660.2	41292	1	99	20	QPSK	2680	41490	1	0	0	22.84	24.50
CA_41C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.8	39728	1	74	20	QPSK	2520.9	39899	1	0	0	22.83	24.50
15	QPSK	2583.3	40523	1	74	20	QPSK	2600.4	40694	1	0	0	22.78	24.50
15	QPSK	2662.9	41319	1	74	20	QPSK	2680	41490	1	0	0	22.70	24.50

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CA_41C														
Combination 75RB + 75RB (15MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	2503.5	39725	1	74	15	QPSK	2518.5	39875	1	0	0	22.83	24.50
15	QPSK	2585.5	40545	1	74	15	QPSK	2600.5	40695	1	0	0	22.76	24.50
15	QPSK	2667.5	41365	1	74	15	QPSK	2682.5	41515	1	0	0	22.69	24.50
CA_41C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	2501.5	39705	1	49	20	QPSK	2515.9	39849	1	0	0	22.64	24.50
10	QPSK	2583.6	40526	1	49	20	QPSK	2598	40670	1	0	0	22.62	24.50
10	QPSK	2665.6	41346	1	49	20	QPSK	2680	41490	1	0	0	22.59	24.50
CA_41C														
Combination 50RB + 75RB (10MHz + 15MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	2501.3	39703	1	49	15	QPSK	2513.3	39823	1	0	0	22.57	24.50
10	QPSK	2585.9	40549	1	49	15	QPSK	2597.9	40669	1	0	0	22.67	24.50
10	QPSK	2670.5	41395	1	49	15	QPSK	2682.5	41515	1	0	0	22.56	24.50
CA_41C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
5	QPSK	2499.3	39683	1	24	20	QPSK	2511	39800	1	0	0	22.70	24.50
5	QPSK	2583.8	40528	1	24	20	QPSK	2595.5	40645	1	0	0	22.70	24.50
5	QPSK	2668.3	41373	1	24	20	QPSK	2680	41490	1	0	0	22.74	24.50
CA_48C														
Combination 100RB + 100RB (20MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
20	QPSK	3560	55340	1	99	20	QPSK	3579.8	55538	1	0	0	20.45	22.00
20	QPSK	3615.1	55891	1	99	20	QPSK	3634.9	56089	1	0	0	20.36	22.00
20	QPSK	3670.2	56442	1	99	20	QPSK	3690	56640	1	0	0	20.41	22.00
CA_48C														
Combination 75RB + 100RB (15MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
15	QPSK	3557.8	55318	1	74	20	QPSK	3574.9	55489	1	0	0	20.38	22.00
15	QPSK	3615.3	55893	1	74	20	QPSK	3632.4	56064	1	0	0	20.53	22.00
15	QPSK	3672.9	56469	1	74	20	QPSK	3690	56640	1	0	0	20.43	22.00
CA_48C														
Combination 50RB + 100RB (10MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
10	QPSK	3555.5	55295	1	49	20	QPSK	3569.9	55439	1	0	0	20.48	22.00
10	QPSK	3615.6	55896	1	49	20	QPSK	3630	56040	1	0	0	20.38	22.00
10	QPSK	3675.6	56496	1	49	20	QPSK	3690	56640	1	0	0	20.40	22.00
CA_48C														
Combination 25RB + 100RB (5MHz + 20MHz)														
PCC						SCC						MPR (dB)	UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset		Measured (dBm)	Tune-up limit (dBm)
5	QPSK	3553.3	55273	1	24	20	QPSK	3565	55390	1	0	0	20.42	22.00
5	QPSK	3615.8	55898	1	24	20	QPSK	3627.5	56015	1	0	0	20.47	22.00
5	QPSK	3678.3	56523	1	24	20	QPSK	3690	56640	1	0	0	20.35	22.00

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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

WWAN

Band	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
								Measured	Reported	
WCDMA Band II	Bottom Surface	0	9262	1852.4	25.0	23.55	139.64%	0.006	0.008	-
WCDMA Band II	Bottom Surface	0	9400	1880	25.0	23.52	140.60%	0.007	0.009	001
WCDMA Band II	Bottom Surface	0	9538	1907.6	25.0	23.76	133.05%	0.006	0.008	-
WCDMA Band IV	Bottom Surface	0	1312	1712.4	25.0	23.94	127.64%	0.006	0.007	-
WCDMA Band IV	Bottom Surface	0	1412	1732.4	25.0	23.99	126.18%	0.005	0.006	-
WCDMA Band IV	Bottom Surface	0	1513	1752.6	25.0	23.98	126.47%	0.007	0.008	002
WCDMA Band V	Bottom Surface	0	4132	826.4	25.0	23.33	146.89%	0.012	0.018	003
WCDMA Band V	Bottom Surface	0	4183	836.6	25.0	23.38	145.21%	0.011	0.016	-
WCDMA Band V	Bottom Surface	0	4233	846.6	25.0	23.30	147.91%	0.010	0.015	-

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Band	Bandwidth (MHz)	Modulation	RB Size	RB start	Position	Distance (mm)	Channel	Freq. (MHz)	Max. Rated Avg. Power + Max. Tolerance (dBm)	Measured Avg. Power (dBm)	Scaling	Averaged SAR over 1g (W/kg)		ID
												Measured	Reported	
LTE Band 2	20MHz	QPSK	1	0	Bottom Surface	0	18700	1860	24.50	22.95	142.89%	0.007	0.010	-
LTE Band 2			1	0	Bottom Surface	0	18900	1880	24.50	22.88	145.21%	0.008	0.011	004
LTE Band 2			1	0	Bottom Surface	0	19100	1900	24.50	22.79	148.25%	0.007	0.010	-
LTE Band 2			50	0	Bottom Surface	0	18900	1860	23.50	21.86	145.88%	0.006	0.008	-
LTE Band 2			100RB		Bottom Surface	0	18700	1860	23.50	21.84	146.55%	0.005	0.008	-
LTE Band 4	20MHz	QPSK	1	0	Bottom Surface	0	20050	1720	24.50	22.92	143.88%	0.005	0.007	-
LTE Band 4			1	0	Bottom Surface	0	20175	1732.5	24.50	23.01	140.93%	0.005	0.007	-
LTE Band 4			1	0	Bottom Surface	0	20300	1745	24.50	23.09	138.36%	0.006	0.008	005
LTE Band 4			50	50	Bottom Surface	0	20300	1745	23.50	21.95	142.89%	0.005	0.008	-
LTE Band 4			100RB		Bottom Surface	0	20175	1732.5	23.50	21.91	144.21%	0.005	0.007	-
LTE Band 5	10MHz	QPSK	1	0	Bottom Surface	0	20450	829	25.50	23.83	146.89%	0.015	0.022	006
LTE Band 5			1	0	Bottom Surface	0	20525	836.5	25.50	23.80	147.91%	0.014	0.020	-
LTE Band 5			1	0	Bottom Surface	0	20600	844	25.50	23.70	151.36%	0.012	0.018	-
LTE Band 5			25	0	Bottom Surface	0	20525	836.5	24.50	22.68	152.05%	0.012	0.018	-
LTE Band 5			50RB		Bottom Surface	0	20525	836.5	24.50	22.68	152.05%	0.011	0.017	-
5B			1	49	Bottom Surface	0	20450	829	25.50	23.76	149.28%	0.008	0.012	-
LTE Band 7	20MHz	QPSK	1	0	Bottom Surface	0	20850	2510	24.50	23.02	140.60%	0.010	0.014	-
LTE Band 7			1	0	Bottom Surface	0	21100	2535	24.50	22.99	141.58%	0.011	0.015	007
LTE Band 7			1	0	Bottom Surface	0	21350	2560	24.50	22.97	142.23%	0.008	0.012	-
LTE Band 7			50	0	Bottom Surface	0	21100	2535	23.50	21.94	143.22%	0.007	0.010	-
LTE Band 7			100RB		Bottom Surface	0	21100	2535	23.50	21.91	144.21%	0.009	0.013	-
7C			1	99	Bottom Surface	0	20850	2510	24.50	22.93	143.55%	0.007	0.010	-
LTE Band 12	10MHz	QPSK	1	0	Bottom Surface	0	23060	704	25.50	23.83	146.89%	0.007	0.011	-
LTE Band 12			1	0	Bottom Surface	0	23095	707.5	25.50	23.80	147.91%	0.007	0.011	-
LTE Band 12			1	0	Bottom Surface	0	23130	711	25.50	23.94	143.22%	0.009	0.012	008
LTE Band 12			25	25	Bottom Surface	0	23130	711	24.50	22.89	144.88%	0.007	0.010	-
LTE Band 12			50RB		Bottom Surface	0	23095	707.5	24.50	22.78	148.59%	0.005	0.007	-
LTE Band 13	10MHz	QPSK	1	0	Bottom Surface	0	23230	782	25.50	23.83	146.89%	0.022	0.032	009
LTE Band 13			25	0	Bottom Surface	0	23230	782	24.50	22.73	150.31%	0.018	0.027	-
LTE Band 13			50RB		Bottom Surface	0	23230	782	24.50	22.72	150.66%	0.016	0.024	-
LTE Band 14	10MHz	QPSK	1	0	Bottom Surface	0	23330	793	25.50	23.88	145.21%	0.022	0.032	010
LTE Band 14			25	25	Bottom Surface	0	23330	793	24.50	22.83	146.89%	0.018	0.026	-
LTE Band 14			50RB		Bottom Surface	0	23330	793	24.50	22.63	153.82%	0.015	0.023	-
LTE Band 25	20MHz	QPSK	1	0	Bottom Surface	0	26140	1860	24.50	23.72	119.67%	0.004	0.005	-
LTE Band 25			1	0	Bottom Surface	0	26365	1882.5	24.50	23.60	123.03%	0.007	0.009	011
LTE Band 25			1	0	Bottom Surface	0	26590	1905	24.50	23.52	125.31%	0.006	0.007	-
LTE Band 25			50	50	Bottom Surface	0	26140	1860	23.50	22.65	121.62%	0.005	0.006	-
LTE Band 25			100RB		Bottom Surface	0	26140	1860	23.50	22.59	123.31%	0.006	0.007	-
LTE Band 26_FCC	15MHz	QPSK	1	0	Bottom Surface	0	26765	821.5	25.50	23.80	147.91%	0.014	0.021	-
LTE Band 26_FCC			1	0	Bottom Surface	0	26865	831.5	25.50	23.78	148.59%	0.017	0.025	012
LTE Band 26_FCC			1	0	Bottom Surface	0	26965	841.5	25.50	23.66	152.76%	0.015	0.023	-
LTE Band 26_FCC			36	0	Bottom Surface	0	26765	821.5	24.50	22.74	149.97%	0.011	0.017	-
LTE Band 26_FCC			75RB		Bottom Surface	0	26765	821.5	24.50	22.72	150.66%	0.010	0.016	-
LTE Band 66	20MHz	QPSK	1	0	Bottom Surface	0	132072	1720	24.50	22.88	145.21%	0.003	0.005	-
LTE Band 66			1	0	Bottom Surface	0	132322	1745	24.50	22.98	141.91%	0.003	0.005	-
LTE Band 66			1	0	Bottom Surface	0	132572	1770	24.50	22.79	148.25%	0.004	0.007	014
LTE Band 66			50	0	Bottom Surface	0	132322	1745	23.50	21.94	143.22%	0.003	0.004	-
LTE Band 66			100RB		Bottom Surface	0	132322	1745	23.50	21.78	148.59%	0.002	0.003	-
LTE Band 71	20MHz	QPSK	1	0	Bottom Surface	0	133222	673	25.50	23.80	147.91%	0.006	0.009	-
LTE Band 71			1	0	Bottom Surface	0	133297	680.5	25.50	23.94	143.22%	0.007	0.010	-
LTE Band 71			1	0	Bottom Surface	0	133372	688	25.50	23.85	146.22%	0.008	0.011	015
LTE Band 71			50	25	Bottom Surface	0	133297	680.5	24.50	22.83	146.89%	0.006	0.009	-
LTE Band 71			100RB		Bottom Surface	0	133297	680.5	24.50	22.79	148.25%	0.005	0.007	-
LTE Band 38	20MHz	QPSK	1	0	Bottom Surface	0	37850	2580	24.50	22.88	145.21%	0.007	0.010	-
LTE Band 38			1	0	Bottom Surface	0	38000	2595	24.50	22.89	144.89%	0.010	0.015	016
LTE Band 38			1	0	Bottom Surface	0	38150	2610	24.50	22.79	148.25%	0.008	0.012	-
LTE Band 38			50	50	Bottom Surface	0	38000	2595	23.50	21.78	148.59%	0.007	0.010	-
LTE Band 38			100RB		Bottom Surface	0	38150	2610	23.50	21.74	149.97%	0.006	0.009	-
LTE Band 41_PC3	20MHz	QPSK	1	0	Bottom Surface	0	39750	2506	24.50	23.10	138.04%	0.008	0.011	-
LTE Band 41_PC3			1	0	Bottom Surface	0	40185	2549.5	24.50	23.00	141.25%	0.007	0.010	-
LTE Band 41_PC3			1	0	Bottom Surface	0	40620	2593	24.50	22.91	144.21%	0.010	0.014	017
LTE Band 41_PC3			1	0	Bottom Surface	0	41055	2636.5	24.50	23.12	137.40%	0.009	0.012	-
LTE Band 41_PC3			1	0	Bottom Surface	0	41490	2680	24.50	23.09	138.36%	0.008	0.011	-
LTE Band 41_PC3			50	50	Bottom Surface	0	41055	2636.5	23.50	22.07	139.00%	0.007	0.010	-
LTE Band 41_PC3			100RB		Bottom Surface	0	41055	2636.5	23.50	22.06	139.32%	0.006	0.008	-
41C			1	99	Bottom Surface	0	40521	2583.1	24.50	22.82	147.23%	0.006	0.009	-
LTE Band 48	20MHz	QPSK	1	0	Bottom Surface	0	55340	3560	22.00	20.70	134.90%	0.013	0.018	-
LTE Band 48			1	0	Bottom Surface	0	55830	3609	22.00	20.63	137.09%	0.011	0.015	-
LTE Band 48			1	0	Bottom Surface	0	56150	3641	22.00	20.71	134.59%	0.014	0.019	-
LTE Band 48			1	0	Bottom Surface	0	56640	3690	22.00	20.79	132.13%	0.016	0.021	019
LTE Band 48			50	50	Bottom Surface	0	56640	3690	21.00	19.65	136.46%	0.007	0.010	-
LTE Band 48			100RB		Bottom Surface	0	56640	3690	21.00	19.56	139.32%	0.008	0.011	-
48C			1	0	Bottom Surface	0	56640	3690	22.00	20.41	144.21%	0.011	0.016	-

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Note:

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

Reported APD = measured APD * 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 Transmission configurations
WWAN + WLAN 2.4GHz Main + BT Aux
WWAN + WLAN 2.4GHz Main + WLAN 2.4GHz Aux + NFC
WWAN + WLAN 5GHz Main + BT Aux + NFC
WWAN + WLAN 5GHz Main + WLAN 5GHz Aux + NFC
WWAN + WLAN 5GHz Main + WLAN 5GHz Aux + BT Aux + NFC
WWAN + WLAN 6GHz Main + BT Aux + NFC
WWAN + WLAN 6GHz Main + WLAN 6GHz Aux + NFC
WWAN + WLAN 6GHz Main + WLAN 6GHz Aux + BT Aux + NFC

Note.

All of WLAN/BT SAR data for Laptop mode can be referred to Intel module SAR level, and these results are used for simultaneous transmission analysis.

(For BE200NGW, refer to Report No.: 230526-08.TR13, 230526-08.TR21)

(For AX211NGW, refer to Report No.: 200611-01.TR07, 210209-01.TR10)

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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 AX211NGW

			FCC Reported SAR										Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
			1	2	3	4	5	6	7	8	9	1+2+3+6 Summed	1+4+5+6 Summed	1+2+6+7 Summed	1+4+6+7 Summed	1+4+5+6+7 Summed	1+6+7+8 Summed	1+6+8+9 Summed	1+6+7+8+9 Summed	
			WWAN	2.4GHz WLAN Main	2.4GHz WLAN Aux	5GHz WLAN Main	5GHz WLAN Aux	NFC	Bluetooth Aux	5GHz WLAN Main	5GHz WLAN Aux									
	Exposure Position		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)	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)	1g SAR (W/kg)	
WCDMA Band 8	Bottom Surface	0	0.009	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.869	1.159	0.529	0.819	1.219	0.329	0.529	0.589	
WCDMA Band IV	Bottom Surface	0	0.008	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.868	1.158	0.528	0.818	1.218	0.328	0.528	0.588	
WCDMA Band V	Bottom Surface	0	0.018	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.878	1.168	0.538	0.828	1.228	0.338	0.538	0.598	
LTE Band 2	Bottom Surface	0	0.011	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.871	1.161	0.531	0.821	1.221	0.331	0.531	0.591	
LTE Band 4	Bottom Surface	0	0.008	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.865	1.155	0.525	0.815	1.215	0.325	0.525	0.585	
LTE Band 5	Bottom Surface	0	0.022	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.882	1.172	0.542	0.832	1.232	0.342	0.542	0.602	
LTE Band 7	Bottom Surface	0	0.015	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.875	1.165	0.535	0.825	1.225	0.335	0.535	0.595	
LTE Band 12	Bottom Surface	0	0.012	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.872	1.162	0.532	0.822	1.222	0.332	0.532	0.592	
LTE Band 13	Bottom Surface	0	0.032	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.892	1.182	0.552	0.842	1.242	0.352	0.552	0.612	
LTE Band 14	Bottom Surface	0	0.032	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.892	1.182	0.552	0.842	1.242	0.352	0.552	0.612	
LTE Band 25	Bottom Surface	0	0.009	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.869	1.159	0.529	0.819	1.219	0.329	0.529	0.589	
LTE Band 26_FCC	Bottom Surface	0	0.025	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.885	1.175	0.545	0.835	1.235	0.345	0.545	0.605	
LTE Band 66	Bottom Surface	0	0.007	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.867	1.157	0.527	0.817	1.217	0.327	0.527	0.587	
LTE Band 71	Bottom Surface	0	0.011	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.871	1.161	0.531	0.821	1.221	0.331	0.531	0.591	
LTE Band 38	Bottom Surface	0	0.015	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.875	1.165	0.535	0.825	1.225	0.335	0.535	0.595	
LTE Band 41_PC3	Bottom Surface	0	0.014	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.874	1.164	0.534	0.824	1.224	0.334	0.534	0.594	
LTE Band 48	Bottom Surface	0	0.021	0.460	0.400	0.750	0.400	0.000	0.060	0.260	0.260	0.881	1.171	0.541	0.831	1.231	0.341	0.541	0.601	

BE200NGW

			FCC Reported SAR										Scenario 1	Scenario 2	Scenario 3	Scenario 4	Scenario 5	Scenario 6	Scenario 7	Scenario 8
			1	2	3	4	5	6	7	8	9	Summed	Summed	Summed	Summed	Summed	Summed	Summed	Summed	
			WWAN	2.4GHz WLAN Aux	2.4GHz WLAN Main	5GHz WLAN Main	5GHz WLAN Aux	NFC	Bluetooth Aux	5GHz WLAN Main	5GHz WLAN Aux									
Exposure Position			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)	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)	1g SAR (W/kg)	
WCDMA Band 8	Bottom Surface	0	0.009	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.759	1.169	0.499	0.819	1.219	0.649	1.219	1.269	
WCDMA Band IV	Bottom Surface	0	0.008	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.758	1.168	0.498	0.818	1.218	0.648	1.218	1.268	
WCDMA Band V	Bottom Surface	0	0.018	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.768	1.178	0.418	0.828	1.228	0.698	1.228	1.278	
LTE Band 2	Bottom Surface	0	0.011	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.761	1.171	0.411	0.821	1.221	0.651	1.221	1.271	
LTE Band 4	Bottom Surface	0	0.008	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.758	1.168	0.408	0.818	1.218	0.648	1.218	1.268	
LTE Band 5	Bottom Surface	0	0.022	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.772	1.182	0.422	0.832	1.232	0.662	1.232	1.282	
LTE Band 7	Bottom Surface	0	0.015	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.765	1.175	0.415	0.825	1.225	0.655	1.225	1.275	
LTE Band 12	Bottom Surface	0	0.012	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.762	1.172	0.412	0.822	1.222	0.652	1.222	1.272	
LTE Band 13	Bottom Surface	0	0.032	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.782	1.192	0.432	0.842	1.242	0.672	1.242	1.292	
LTE Band 14	Bottom Surface	0	0.032	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.782	1.192	0.432	0.842	1.242	0.672	1.242	1.292	
LTE Band 25	Bottom Surface	0	0.009	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.759	1.169	0.499	0.819	1.219	0.649	1.219	1.269	
LTE Band 26_FCC	Bottom Surface	0	0.025	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.775	1.185	0.425	0.835	1.235	0.665	1.235	1.285	
LTE Band 66	Bottom Surface	0	0.007	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.757	1.167	0.407	0.817	1.217	0.647	1.217	1.267	
LTE Band 71	Bottom Surface	0	0.011	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.761	1.171	0.411	0.821	1.221	0.651	1.221	1.271	
LTE Band 38	Bottom Surface	0	0.015	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.765	1.175	0.415	0.825	1.225	0.655	1.225	1.275	
LTE Band 41_PC3	Bottom Surface	0	0.014	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.764	1.174	0.414	0.824	1.224	0.654	1.224	1.274	
LTE Band 48	Bottom Surface	0	0.021	0.350	0.400	0.760	0.400	0.000	0.050	0.590	0.620	0.771	1.181	0.421	0.831	1.231	0.661	1.231	1.281	

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

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	1260	Sep/14/2023	Sep/13/2024
SPEAG	Dosimetric E-Field Probe	EX3DV4	7712	Apr/18/2024	Apr/17/2025
SPEAG	System Validation Dipole	D750V3	1015	Sep/18/2023	Sep/17/2024
SPEAG	System Validation Dipole	D835V2	4d063	Sep/20/2023	Sep/19/2024
SPEAG	System Validation Dipole	D1750V2	1158	Aug/25/2023	Aug/24/2024
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/25/2024	Apr/24/2025
SPEAG	System Validation Dipole	D2600V2	1005	Jan/22/2024	Jan/21/2025
SPEAG	System Validation Dipole	D3500V2	1009	Sep/19/2023	Sep/18/2024
SPEAG	System Validation Dipole	D3700V2	1057	Nov/20/2023	Nov/19/2024
SPEAG	Dielectric Assessment Kit	DAKS-3.5	0004	Jan/22/2024	Jan/21/2025
R&S	MXG Analog Signal Generator	SMB100A03	182012	May/21/2024	May/20/2025
Agilent	Dual-directional coupler	772D	MY46151258	Sep/26/2023	Sep/25/2024
Agilent	Dual-directional coupler	778D	MY46151242	Sep/26/2023	Sep/25/2024
EMCI	Amplifier	EMC 074225P	980155	Calibration not required	Calibration not required
EMCI	Amplifier	EMC 2830P	980156	Calibration not required	Calibration not required
R&S	Power Meter	NRX	102191	Feb/27/2024	Feb/26/2025
R&S	Power Sensor	NRP50S	101770	Jun/26/2024	Jun/25/2025
R&S	Power Sensor	NRP18S	109065	Oct/23/2023	Oct/22/2024
SPEAG	Software	DASY 52 V52.10.4.1527	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Anritsu	Radio Communication Test	MT8820C	6201061049	Nov/02/2023	Nov/01/2024
R&S	Radio Communication Test	CMW 500	125470	May/17/2024	May/16/2025
TECPEL	Digital thermometer	DTM-303A	TP130077	Sep/25/2023	Sep/24/2024

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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.)	2.01%	N	1	1	0.64	0.43	1.29%	0.86%	M
Liquid Conductivity (mea.)	0.32%	N	1	1	0.6	0.49	0.19%	0.16%	M
Combined standard uncertainty		RSS					11.79%	11.74%	
Expart uncertainty (95% confidence interval), K=2							23.58%	23.48%	

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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%	∞
Isotropy , Axial	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
Isotropy, Hemispherical	9.60%	R	$\sqrt{3}$	1.732	1	1	5.54%	5.54%	∞
Modulation Response	2.40%	R	$\sqrt{3}$	1.732	1	1	1.40%	1.40%	∞
Boundary Effect	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Linearity	4.70%	R	$\sqrt{3}$	1.732	1	1	2.71%	2.71%	∞
Detection Limits	1.00%	R	$\sqrt{3}$	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	$\sqrt{3}$	1.732	1	1	0.46%	0.46%	∞
Integration Time	2.60%	R	$\sqrt{3}$	1.732	1	1	1.50%	1.50%	∞
Measurement drift (class A evaluation)	1.75%	R	$\sqrt{3}$	1.732	1	1	1.01%	1.01%	∞
RF ambient condition - noise	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
RF ambient conditions - reflections	3.00%	R	$\sqrt{3}$	1.732	1	1	1.73%	1.73%	∞
Probe positioner Mechanical restrictions	0.40%	R	$\sqrt{3}$	1.732	1	1	0.23%	0.23%	∞
Probe Positioning with respect to phantom shell	2.90%	R	$\sqrt{3}$	1.732	1	1	1.67%	1.67%	∞
Post-processing	1.00%	R	$\sqrt{3}$	1.732	1	1	0.58%	0.58%	∞
Max SAR Eval	1.00%	R	$\sqrt{3}$	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	$\sqrt{3}$	1.732	1	1	2.89%	2.89%	∞
Phantom and Setup									
Phantom Uncertainty	4.00%	R	$\sqrt{3}$	1.732	1	1	2.31%	2.31%	∞
Liquid permittivity (mea.)	2.42%	N	1	1	0.64	0.43	1.55%	1.04%	M
Liquid Conductivity (mea.)	1.50%	N	1	1	0.6	0.49	0.90%	0.74%	M
Combined standard uncertainty		RSS					11.56%	11.48%	
Expan uncertainty (95% confidence interval), K=2							23.11%	22.96%	

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10 SAR MEASUREMENT RESULTS

Date: 2024/6/20

ID: 001

Report No. :TESA2404000228EN

WCDMA II_Body_Bottom Surface_CH 9400_0mm

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

Medium parameters used: $f = 1880$ MHz; $\sigma = 1.384$ S/m; $\epsilon_r = 39.685$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.17, 7.9, 8.07) @ 1880 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0151 W/kg

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

Reference Value = 0.4236 V/m; Power Drift = 0.03 dB

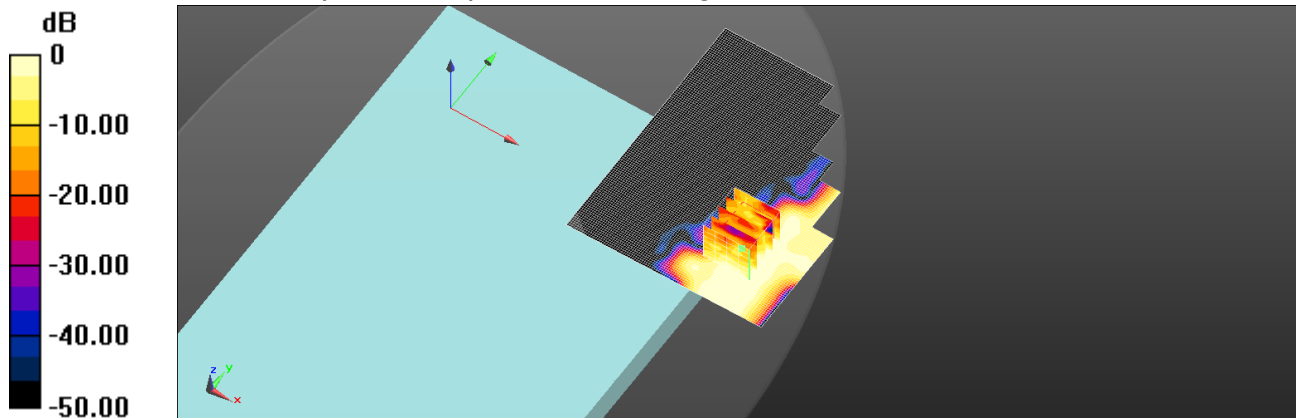
Peak SAR (extrapolated) = 0.00850 W/kg

SAR(1 g) = 0.00657 W/kg; SAR(10 g) = 0.00494 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 94.4%

Maximum value of SAR (measured) = 0.00794 W/kg



0 dB = 0.0151 W/kg = -18.20 dBW/kg

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Date: 2024/6/19

ID: 002

Report No. :TESA2404000228EN

WCDMA IV_Body_Bottom Surface_CH 1513_0mm

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

Medium parameters used: $f = 1752.6$ MHz; $\sigma = 1.367$ S/m; $\epsilon_r = 39.768$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.49, 8.17, 8.46) @ 1752.6 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0162 W/kg

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

Reference Value = 0.4362 V/m; Power Drift = 0.02 dB

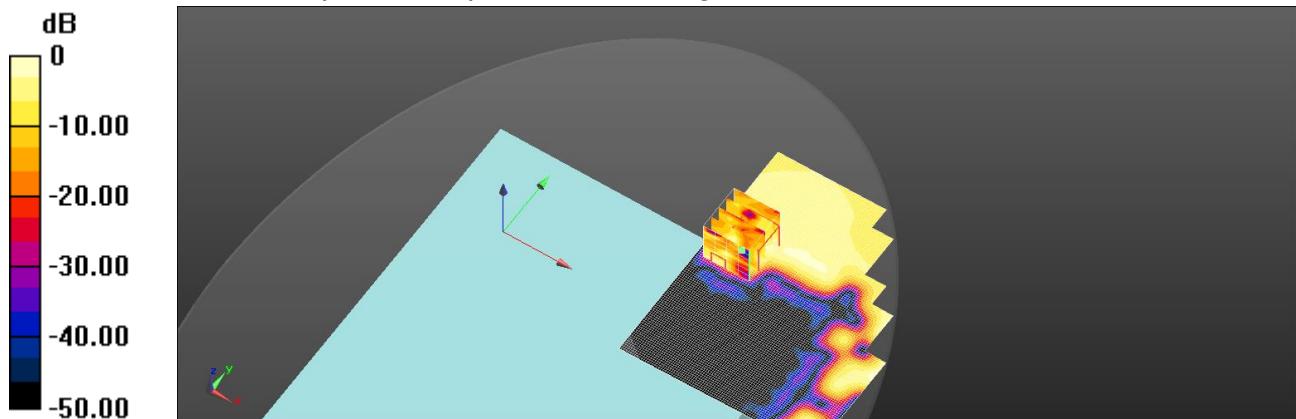
Peak SAR (extrapolated) = 0.0140 W/kg

SAR(1 g) = 0.0067 W/kg; SAR(10 g) = 0.00415 W/kg

Smallest distance from peaks to all points 3 dB below: 12 mm

Ratio of SAR at M2 to SAR at M1 = 77.3%

Maximum value of SAR (measured) = 0.00720 W/kg



0 dB = 0.0162 W/kg = -17.89 dBW/kg

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Date: 2024/6/18

ID: 003

Report No. :TESA2404000228EN

WCDMA V_Body_Bottom Surface_CH 4132_0mm

Communication System: WCDMA; Frequency: 826.4 MHz; Duty cycle= 1:1

Medium parameters used: $f = 826.4$ MHz; $\sigma = 0.891$ S/m; $\epsilon_r = 41.406$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.5, 9.1, 9.44) @ 826.4 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0141 W/kg

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

Reference Value = 0.7533 V/m; Power Drift = 0.03 dB

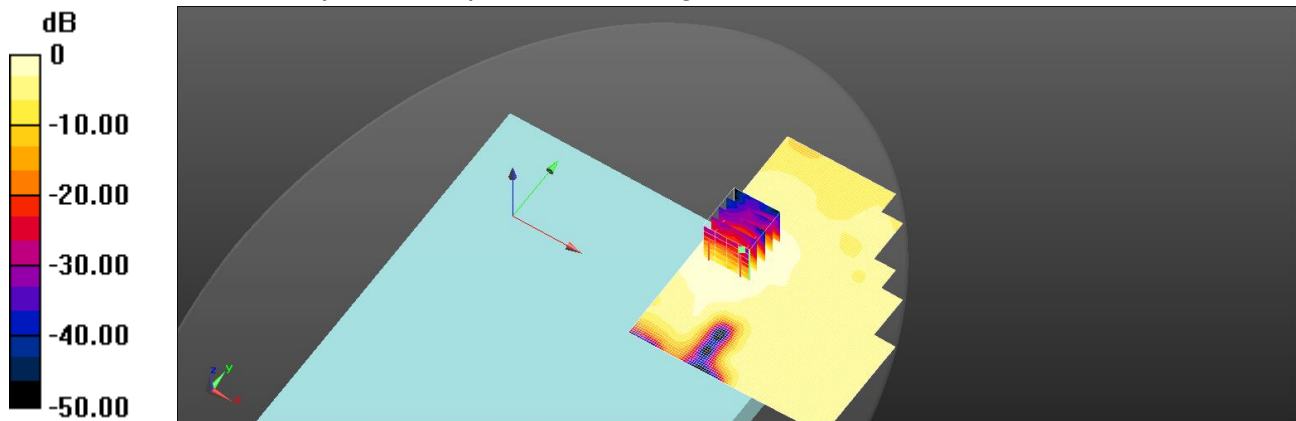
Peak SAR (extrapolated) = 0.0160 W/kg

SAR(1 g) = 0.0121 W/kg; SAR(10 g) = 0.0097 W/kg

Smallest distance from peaks to all points 3 dB below: 13 mm

Ratio of SAR at M2 to SAR at M1 = 76.5%

Maximum value of SAR (measured) = 0.0142 W/kg



0 dB = 0.0141 W/kg = -18.49 dBW/kg

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Date: 2024/6/20

ID: 004

Report No. :TESA2404000228EN

LTE Band 2 (20MHz)_Body_Bottom Surface_CH 18900_QPSK_1-0_0mm

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

Medium parameters used: $f = 1880 \text{ MHz}$; $\sigma = 1.384 \text{ S/m}$; $\epsilon_r = 39.685$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.17, 7.9, 8.07) @ 1880 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0178 W/kg

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

Reference Value = 2.713 V/m; Power Drift = 0.03 dB

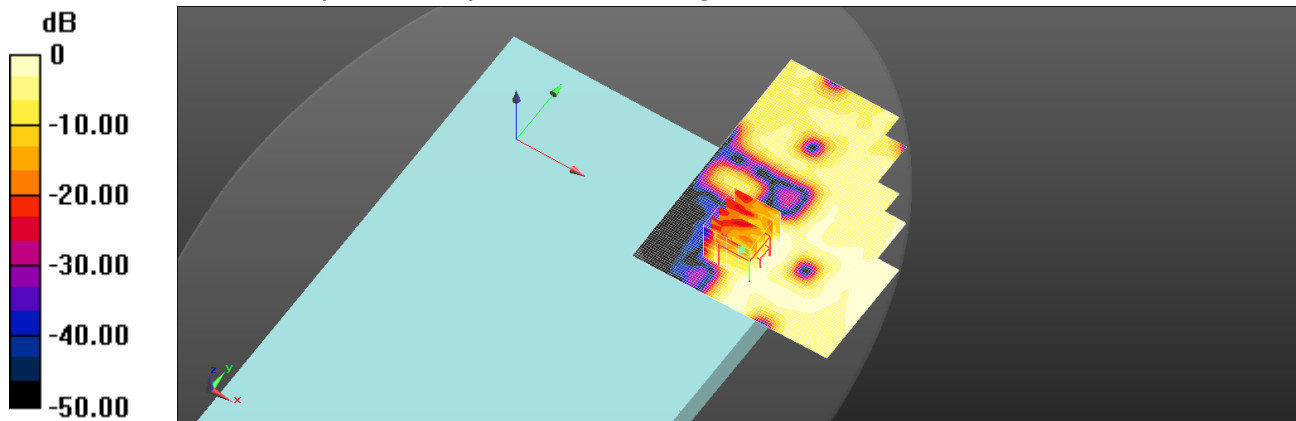
Peak SAR (extrapolated) = 0.0160 W/kg

SAR(1 g) = 0.00768 W/kg; SAR(10 g) = 0.00557 W/kg

Smallest distance from peaks to all points 3 dB below: 12.3 mm

Ratio of SAR at M2 to SAR at M1 = 79.7%

Maximum value of SAR (measured) = 0.00975 W/kg



0 dB = 0.0178 W/kg = -17.49 dBW/kg

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Date: 2024/6/19

ID: 005

Report No. :TESA2404000228EN

LTE Band 4 (20MHz)_Body_Bottom Surface_CH 20300_QPSK_1-0_0mm

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

Medium parameters used: $f = 1745 \text{ MHz}$; $\sigma = 1.363 \text{ S/m}$; $\epsilon_r = 39.803$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.49, 8.17, 8.46) @ 1745 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0229 W/kg

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

Reference Value = 1.672 V/m; Power Drift = 0.04 dB

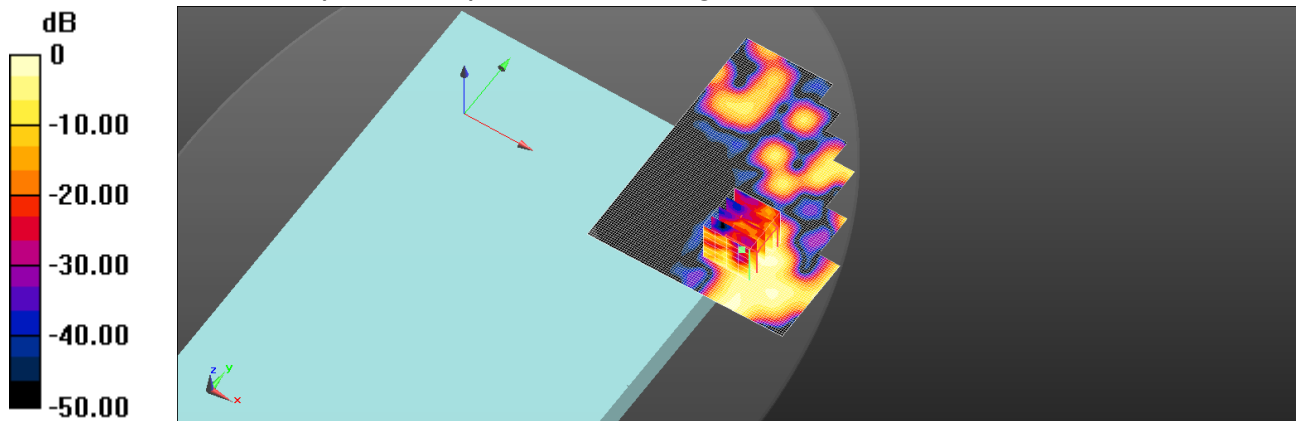
Peak SAR (extrapolated) = 0.00824 W/kg

SAR(1 g) = 0.00589 W/kg; SAR(10 g) = 0.00437 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 67.5%

Maximum value of SAR (measured) = 0.00703 W/kg



0 dB = 0.0229 W/kg = -16.40 dBW/kg

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Date: 2024/6/18

ID: 006

Report No. :TESA2404000228EN

LTE Band 5 (10MHz)_Body_Bottom Surface_CH 20450_QPSK_1-0_0mm

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

Medium parameters used: $f = 829 \text{ MHz}$; $\sigma = 0.891 \text{ S/m}$; $\epsilon_r = 41.357$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.5, 9.1, 9.44) @ 829 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0184 W/kg

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

Reference Value = 2.387 V/m; Power Drift = 0.05 dB

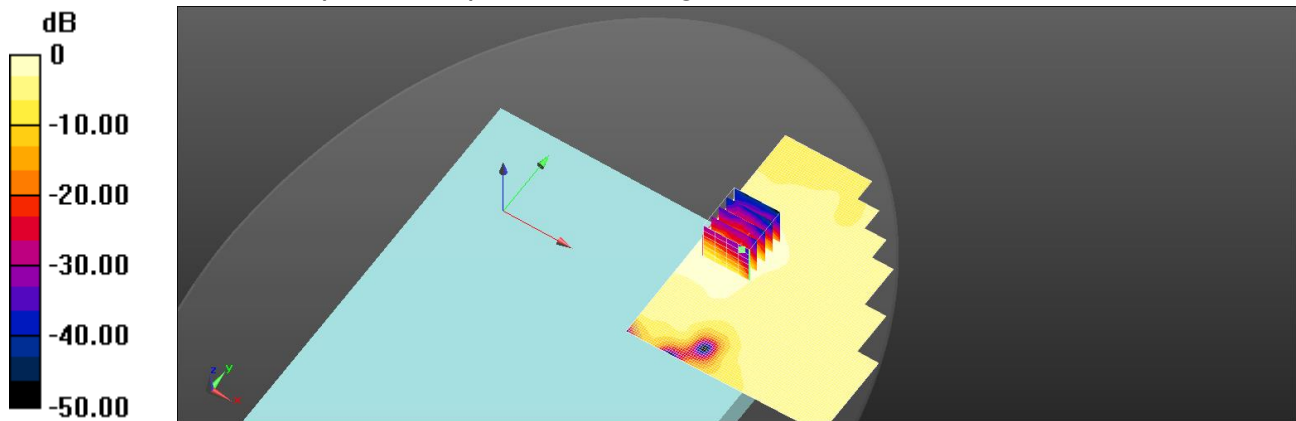
Peak SAR (extrapolated) = 0.0190 W/kg

SAR(1 g) = 0.015 W/kg; SAR(10 g) = 0.0119 W/kg

Smallest distance from peaks to all points 3 dB below: 14.6 mm

Ratio of SAR at M2 to SAR at M1 = 81.2%

Maximum value of SAR (measured) = 0.0171 W/kg

 $0 \text{ dB} = 0.0184 \text{ W/kg} = -17.34 \text{ dBW/kg}$

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Date: 2024/6/21

ID: 007

Report No. :TESA2404000228EN

LTE Band 7 (20MHz)_Body_Bottom Surface_CH 21100_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2535 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2535 \text{ MHz}$; $\sigma = 1.886 \text{ S/m}$; $\epsilon_r = 38.731$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.64, 7.36, 7.49) @ 2535 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (101x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0319 W/kg

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

Reference Value = 2.743 V/m; Power Drift = 0.05 dB

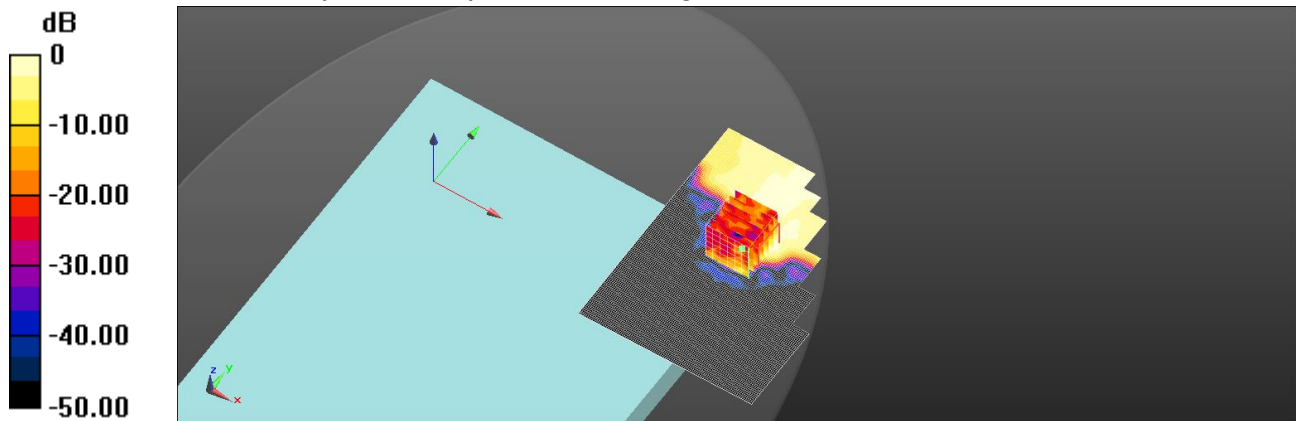
Peak SAR (extrapolated) = 0.0170 W/kg

SAR(1 g) = 0.0107 W/kg; SAR(10 g) = 0.00687 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 79.7%

Maximum value of SAR (measured) = 0.0144 W/kg



0 dB = 0.0319 W/kg = -14.96 dBW/kg

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Date: 2024/6/17

ID: 008

Report No. :TESA2404000228EN

LTE Band 12 (10MHz)_Body_Bottom Surface_CH 23130_QPSK_1-0_0mm

Communication System: LTE; Frequency: 711 MHz; Duty cycle= 1:1

Medium parameters used: $f = 711 \text{ MHz}$; $\sigma = 0.88 \text{ S/m}$; $\epsilon_r = 41.78$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 711 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00912 W/kg

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

Reference Value = 1.449 V/m; Power Drift = 0.11 dB

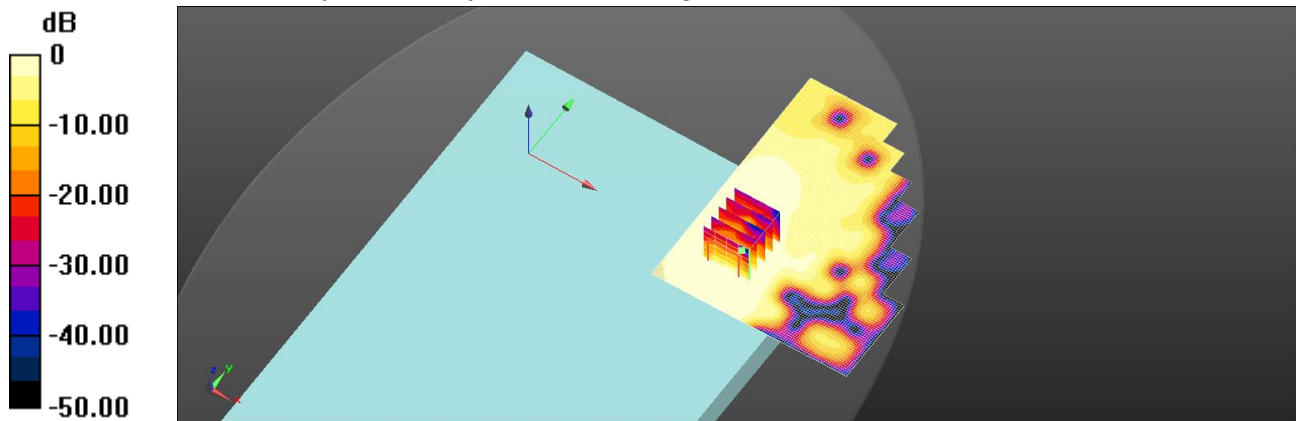
Peak SAR (extrapolated) = 0.0110 W/kg

SAR(1 g) = 0.00871 W/kg; SAR(10 g) = 0.00717 W/kg

Smallest distance from peaks to all points 3 dB below: 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 77.2%

Maximum value of SAR (measured) = 0.0102 W/kg



0 dB = 0.00912 W/kg = -20.40 dBW/kg

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Date: 2024/6/17

ID: 009

Report No. :TESA2404000228EN

LTE Band 13 (10MHz)_Body_Bottom Surface_CH 23230_QPSK_1-0_0mm

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

Medium parameters used: $f = 782 \text{ MHz}$; $\sigma = 0.886 \text{ S/m}$; $\epsilon_r = 41.429$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 782 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0256 W/kg

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

Reference Value = 3.305 V/m; Power Drift = 0.06 dB

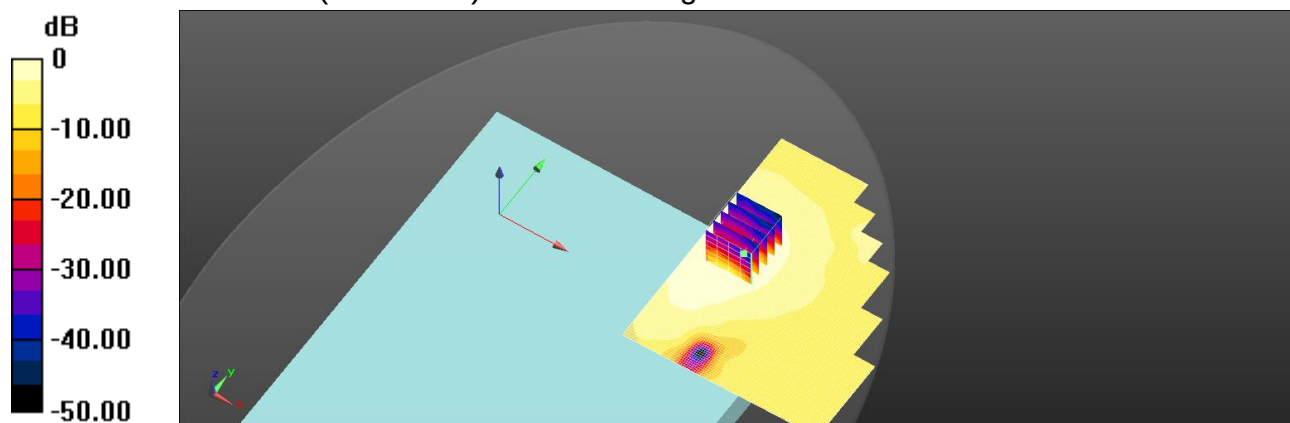
Peak SAR (extrapolated) = 0.0280 W/kg

SAR(1 g) = 0.0216 W/kg; SAR(10 g) = 0.0162 W/kg

Smallest distance from peaks to all points 3 dB below: 15.6 mm

Ratio of SAR at M2 to SAR at M1 = 75.7%

Maximum value of SAR (measured) = 0.0260 W/kg



0 dB = 0.0256 W/kg = -15.91 dBW/kg

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Date: 2024/6/17

ID: 010

Report No. :TESA2404000228EN

LTE Band 14 (10MHz)_Body_Bottom Surface_CH 23330_QPSK_1-0_0mm

Communication System: LTE; Frequency: 793 MHz; Duty cycle= 1:1

Medium parameters used: $f = 793 \text{ MHz}$; $\sigma = 0.888 \text{ S/m}$; $\epsilon_r = 41.423$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 793 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.0259 W/kg

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

Reference Value = 2.963 V/m; Power Drift = 0.07 dB

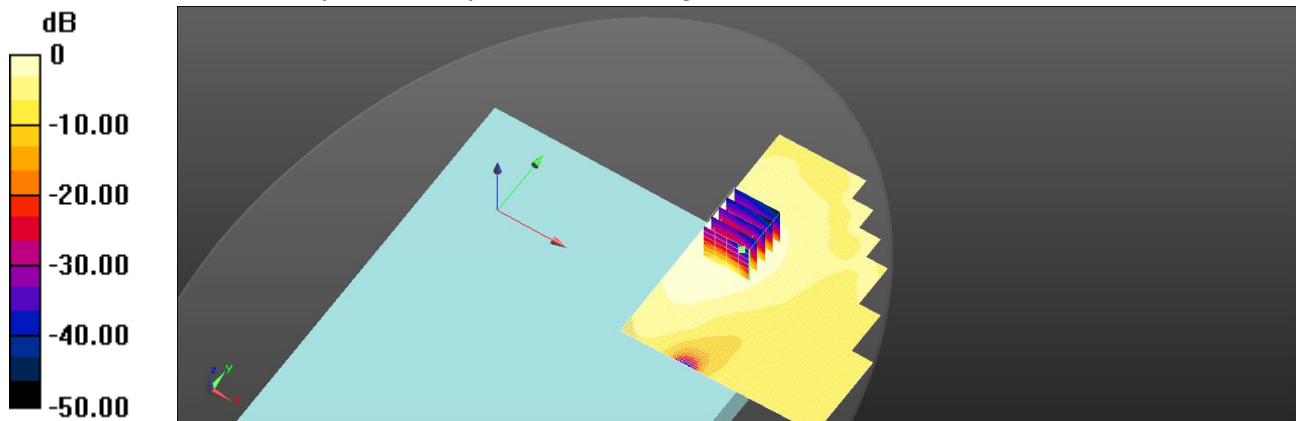
Peak SAR (extrapolated) = 0.0280 W/kg

SAR(1 g) = 0.022 W/kg; SAR(10 g) = 0.0166 W/kg

Smallest distance from peaks to all points 3 dB below: 14.5 mm

Ratio of SAR at M2 to SAR at M1 = 78.2%

Maximum value of SAR (measured) = 0.0258 W/kg



0 dB = 0.0259 W/kg = -15.87 dBW/kg

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Date: 2024/6/20

ID: 011

Report No. :TESA2404000228EN

LTE Band 25 (20MHz)_Body_Bottom Surface_CH 26365_QPSK_1-0_0mm

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

Medium parameters used: $f = 1882.5$ MHz; $\sigma = 1.385$ S/m; $\epsilon_r = 39.677$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.17, 7.9, 8.07) @ 1882.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0178 W/kg

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

Reference Value = 2.586 V/m; Power Drift = 0.01 dB

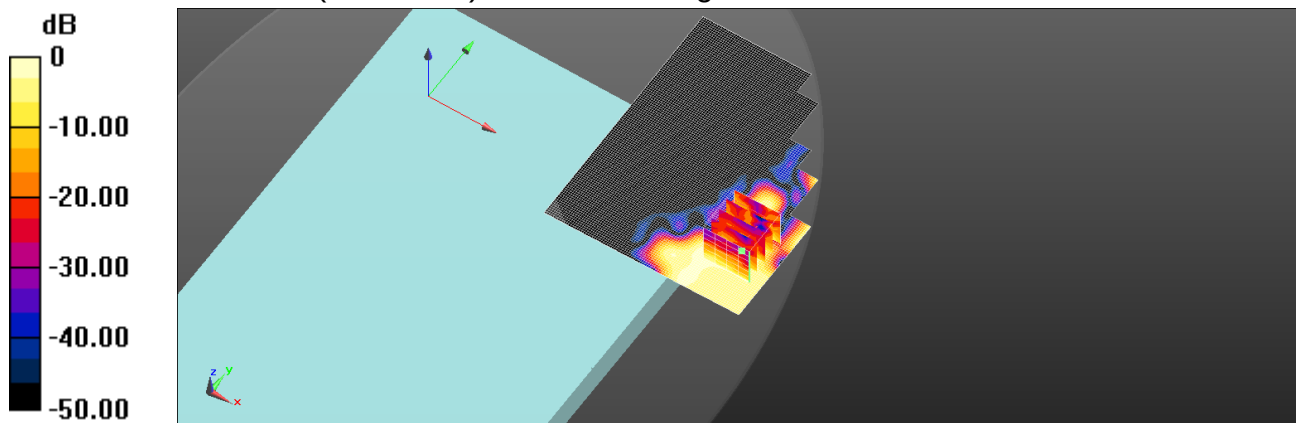
Peak SAR (extrapolated) = 0.00972 W/kg

SAR(1 g) = 0.00701 W/kg; SAR(10 g) = 0.00527 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 75.2%

Maximum value of SAR (measured) = 0.00887 W/kg



0 dB = 0.0178 W/kg = -17.49 dBW/kg

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Date: 2024/6/18

ID: 012

Report No. :TESA2404000228EN

LTE Band 26 (15MHz)_Body_Bottom Surface_CH 26865_QPSK_1-0_FCC_0mm

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

Medium parameters used: $f = 831.5$ MHz; $\sigma = 0.892$ S/m; $\epsilon_r = 41.314$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.5, 9.1, 9.44) @ 831.5 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0196 W/kg

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

Reference Value = 2.853 V/m; Power Drift = 0.04 dB

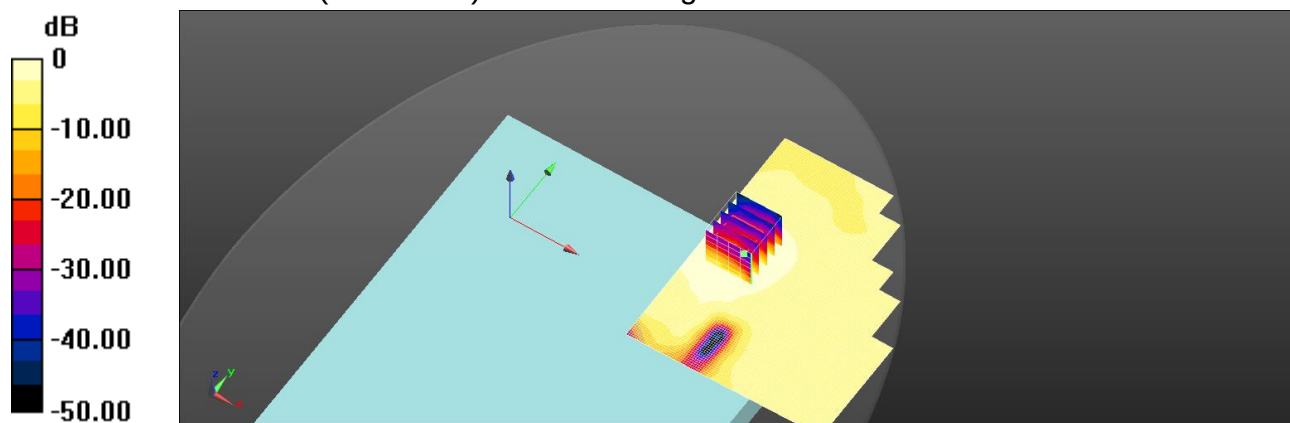
Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.0166 W/kg; SAR(10 g) = 0.0131 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 77.1%

Maximum value of SAR (measured) = 0.0190 W/kg



0 dB = 0.0196 W/kg = -17.08 dBW/kg

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Date: 2024/6/19

ID: 014

Report No. :TESA2404000228EN

LTE Band 66 (20MHz)_Body_Bottom Surface_CH 132572_QPSK_1-0_0mm

Communication System: LTE; Frequency: 1770 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1770$ MHz; $\sigma = 1.374$ S/m; $\epsilon_r = 39.759$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.49, 8.17, 8.46) @ 1770 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 0.0106 W/kg

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

Reference Value = 1.416 V/m; Power Drift = 0.07 dB

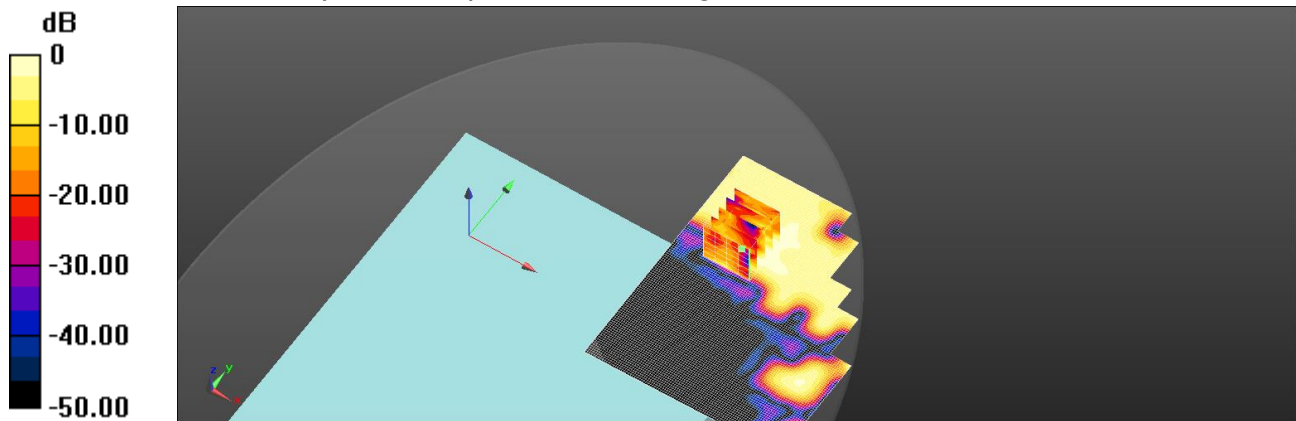
Peak SAR (extrapolated) = 0.00634 W/kg

SAR(1 g) = 0.00444 W/kg; SAR(10 g) = 0.00341 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 70.1%

Maximum value of SAR (measured) = 0.00549 W/kg



0 dB = 0.0106 W/kg = -19.75 dBW/kg

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Date: 2024/6/17

ID: 015

Report No. :TESA2404000228EN

LTE Band 71 (20MHz)_Body_Bottom Surface_CH 133372_QPSK_1-0_0mm

Communication System: LTE; Frequency: 688 MHz; Duty cycle= 1:1

Medium parameters used: $f = 688 \text{ MHz}$; $\sigma = 0.879 \text{ S/m}$; $\epsilon_r = 41.897$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 688 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (91x111x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 0.00855 W/kg

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

Reference Value = 1.817 V/m; Power Drift = 0.08 dB

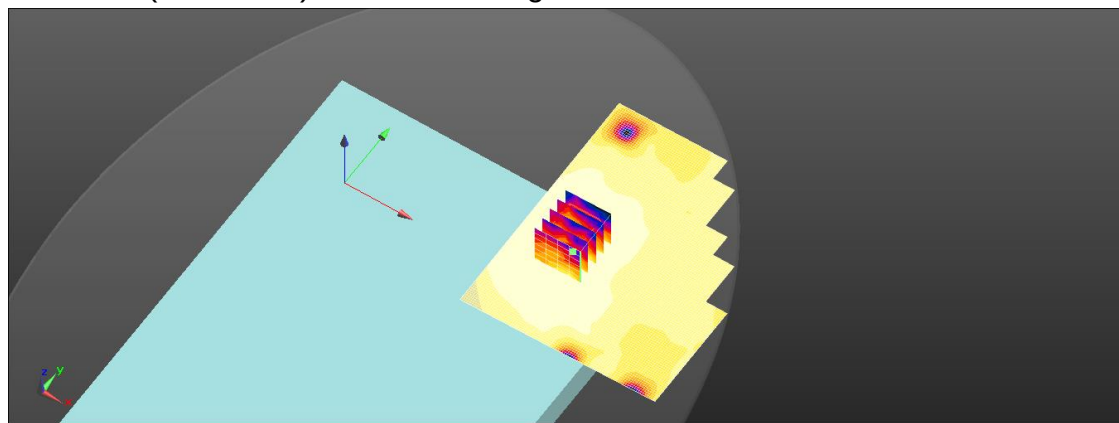
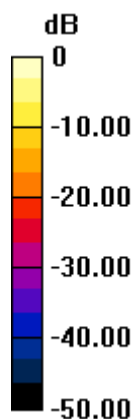
Peak SAR (extrapolated) = 0.0100 W/kg

SAR(1 g) = 0.00786 W/kg; SAR(10 g) = 0.00635 W/kg

Smallest distance from peaks to all points 3 dB below: 14.6 mm

Ratio of SAR at M2 to SAR at M1 = 75%

Maximum value of SAR (measured) = 0.00912 W/kg



0 dB = 0.00855 W/kg = -20.68 dBW/kg

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Date: 2024/6/21

ID: 016

Report No. :TESA2404000228EN

LTE Band 38 (20MHz)_Body_Bottom Surface_CH 38000_QPSK_1-0_0mm

Communication System: LTE; Frequency: 2595 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 2595$ MHz; $\sigma = 1.951$ S/m; $\epsilon_r = 38.386$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.64, 7.36, 7.49) @ 2595 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0167 W/kg

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

Reference Value = 2.323 V/m; Power Drift = -0.04 dB

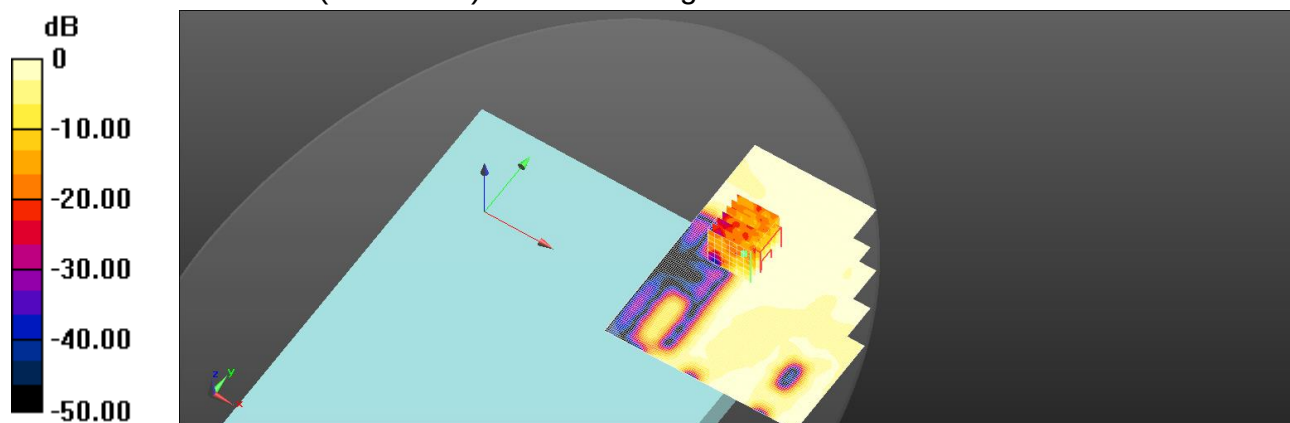
Peak SAR (extrapolated) = 0.0150 W/kg

SAR(1 g) = 0.0101 W/kg; SAR(10 g) = 0.007 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 71.2%

Maximum value of SAR (measured) = 0.0131 W/kg



0 dB = 0.0167 W/kg = -17.79 dBW/kg

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Date: 2024/6/21

ID: 017

Report No. :TESA2404000228EN

LTE Band 41 (20MHz)_Body_Bottom Surface_CH 40620_QPSK_1-0_PC3_0mm

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

Medium parameters used: $f = 2593$ MHz; $\sigma = 1.948$ S/m; $\epsilon_r = 38.391$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.64, 7.36, 7.49) @ 2593 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0238 W/kg

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

Reference Value = 3.498 V/m; Power Drift = -0.08 dB

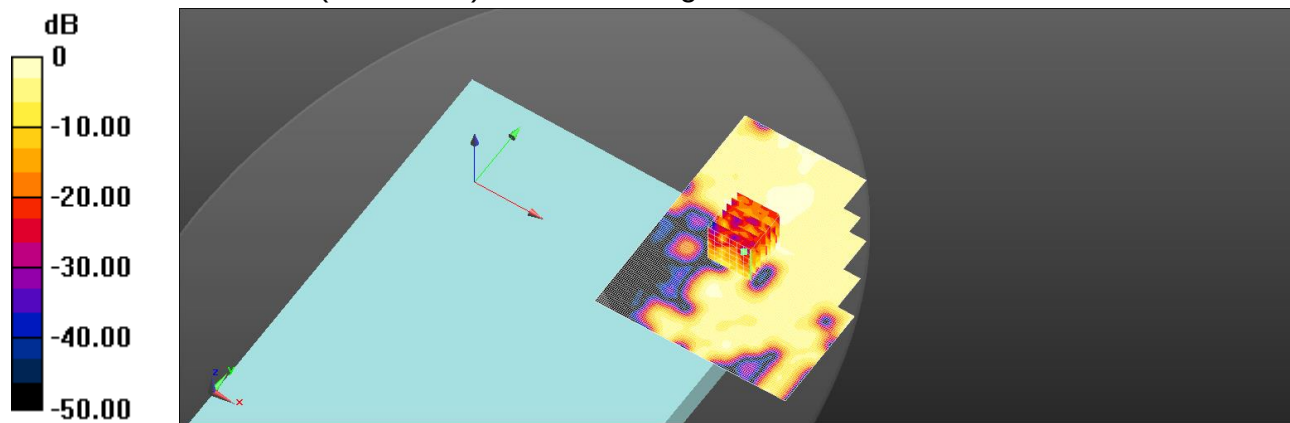
Peak SAR (extrapolated) = 0.0190 W/kg

SAR(1 g) = 0.00977 W/kg; SAR(10 g) = 0.00691 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 63.9%

Maximum value of SAR (measured) = 0.0127 W/kg



0 dB = 0.0238 W/kg = -16.23 dBW/kg

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Date: 2024/6/24

ID: 019

Report No. :TESA2404000228EN

LTE Band 48 (20MHz)_Body_Bottom Surface_CH 56640_QPSK_1-0_0mm

Communication System: LTE; Frequency: 3690 MHz; Duty cycle= 1:1.58

Medium parameters used: $f = 3690$ MHz; $\sigma = 3.104$ S/m; $\epsilon_r = 37.18$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(6.72, 6.43, 6.54) @ 3690 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (111x131x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 0.0366 W/kg

Zoom Scan (7x7x8)/Cube 0: Measurement grid: dx=5mm, dy=5mm, dz=4mm

Reference Value = 2.744 V/m; Power Drift = 0.05 dB

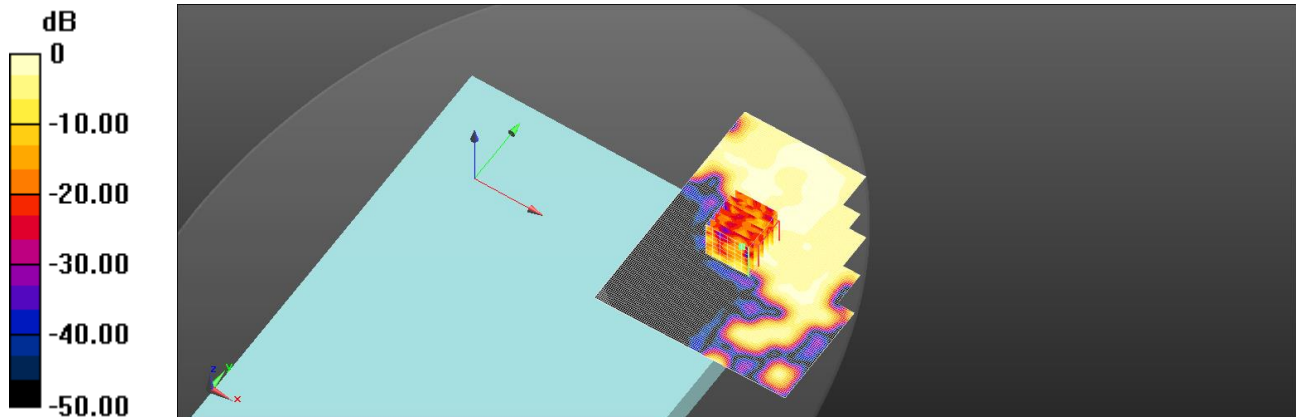
Peak SAR (extrapolated) = 0.0220 W/kg

SAR(1 g) = 0.0157 W/kg; SAR(10 g) = 0.0108 W/kg

Smallest distance from peaks to all points 3 dB below: 12 mm

Ratio of SAR at M2 to SAR at M1 = 97%

Maximum value of SAR (measured) = 0.0194 W/kg



0 dB = 0.0366 W/kg = -14.36 dBW/kg

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11 SAR SYSTEM CHECK RESULTS

Date: 2024/6/17

Report No. :TESA2404000228EN

Dipole 750 MHz_SN:1015

Communication System: CW; Frequency: 750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 750 \text{ MHz}$; $\sigma = 0.885 \text{ S/m}$; $\epsilon_r = 41.432$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.2°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.57, 9.46, 9.78) @ 750 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- 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) = 2.72 W/kg

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

Reference Value = 51.31 V/m; Power Drift = 0.05 dB

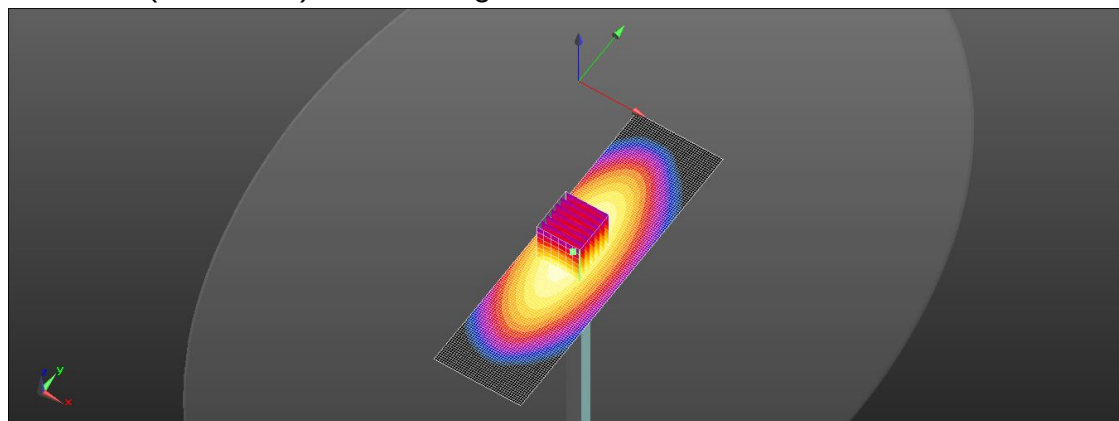
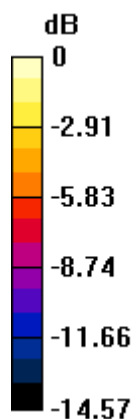
Peak SAR (extrapolated) = 3.26 W/kg

SAR(1 g) = 2.2 W/kg; SAR(10 g) = 1.45 W/kg

Smallest distance from peaks to all points 3 dB below: 18.5 mm

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

Maximum value of SAR (measured) = 2.80 W/kg



0 dB = 2.80 W/kg = 4.47 dBW/kg

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Date: 2024/6/18

Report No. :TESA2404000228EN

Dipole 835 MHz_SN:4d063

Communication System: CW; Frequency: 835 MHz; Duty cycle= 1:1

Medium parameters used: $f = 835 \text{ MHz}$; $\sigma = 0.893 \text{ S/m}$; $\epsilon_r = 41.293$; $\rho = 1000 \text{ kg/m}^3$

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(9.5, 9.1, 9.44) @ 835 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (81x121x1): Interpolated grid: $dx=15 \text{ mm}$, $dy=15 \text{ mm}$

Maximum value of SAR (interpolated) = 3.06 W/kg

Zoom Scan (7x7x7)/Cube 0: Measurement grid: $dx=5\text{mm}$, $dy=5\text{mm}$, $dz=5\text{mm}$

Reference Value = 58.62 V/m; Power Drift = -0.01 dB

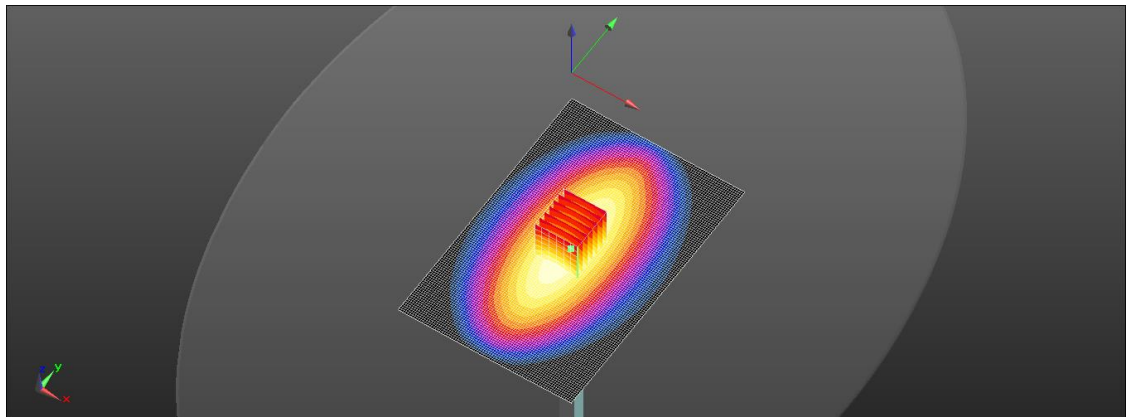
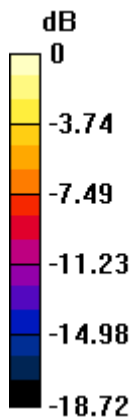
Peak SAR (extrapolated) = 3.55 W/kg

SAR(1 g) = 2.4 W/kg; SAR(10 g) = 1.58 W/kg

Smallest distance from peaks to all points 3 dB below = 20.5 mm

Ratio of SAR at M2 to SAR at M1 = 67.6%

Maximum value of SAR (measured) = 3.05 W/kg



0 dB = 3.05 W/kg = 4.84 dBW/kg

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Date: 2024/6/19

Report No. :TESA2404000228EN

Dipole 1750 MHz_SN:1158

Communication System: CW; Frequency: 1750 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1750$ MHz; $\sigma = 1.366$ S/m; $\epsilon_r = 39.786$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.49, 8.17, 8.46) @ 1750 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 12.5 W/kg

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

Reference Value = 96.82 V/m; Power Drift = -0.06 dB

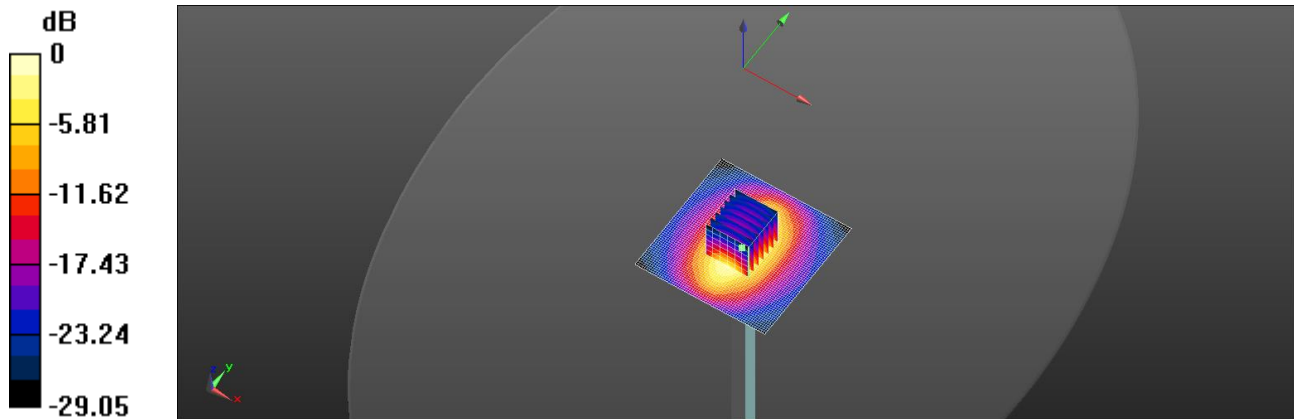
Peak SAR (extrapolated) = 14.9 W/kg

SAR(1 g) = 9.05 W/kg; SAR(10 g) = 5.06 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 62.4%

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



0 dB = 12.5 W/kg = 10.97 dBW/kg

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Date: 2024/6/20

Report No. :TESA2404000228EN

Dipole 1900 MHz_SN:5d173

Communication System: CW; Frequency: 1900 MHz; Duty cycle= 1:1

Medium parameters used: $f = 1900$ MHz; $\sigma = 1.388$ S/m; $\epsilon_r = 39.477$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.7°C; Liquid temperature: 22.4°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(8.17, 7.9, 8.07) @ 1900 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=15 mm, dy=15 mm

Maximum value of SAR (interpolated) = 13.9 W/kg

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

Reference Value = 93.19 V/m; Power Drift = 0.03 dB

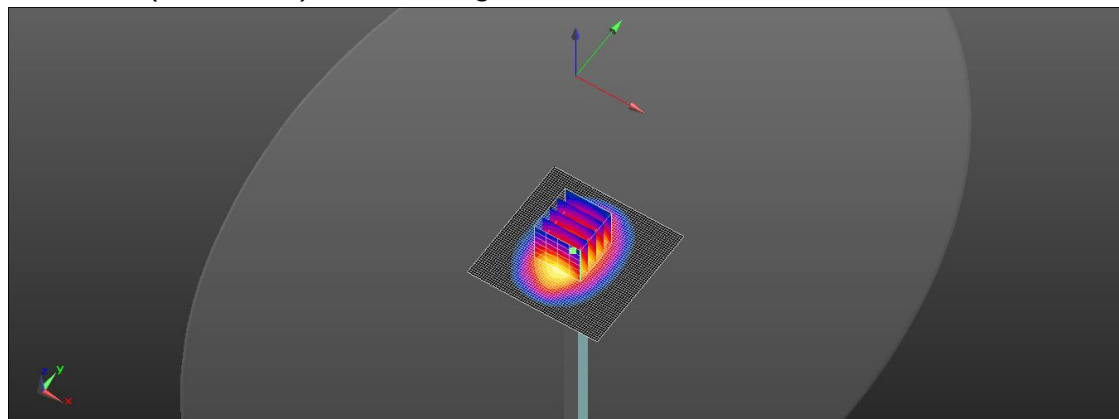
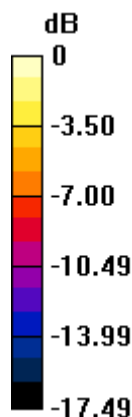
Peak SAR (extrapolated) = 17.4 W/kg

SAR(1 g) = 9.9 W/kg; SAR(10 g) = 5.36 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 58.3%

Maximum value of SAR (measured) = 13.9 W/kg



0 dB = 13.9 W/kg = 11.43 dBW/kg

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Date: 2024/6/21

Report No. :TESA2404000228EN

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.951$ S/m; $\epsilon_r = 38.337$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.5°C; Liquid temperature: 22.1°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.64, 7.36, 7.49) @ 2600 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 20.9 W/kg

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

Reference Value = 105.7 V/m; Power Drift = -0.04 dB

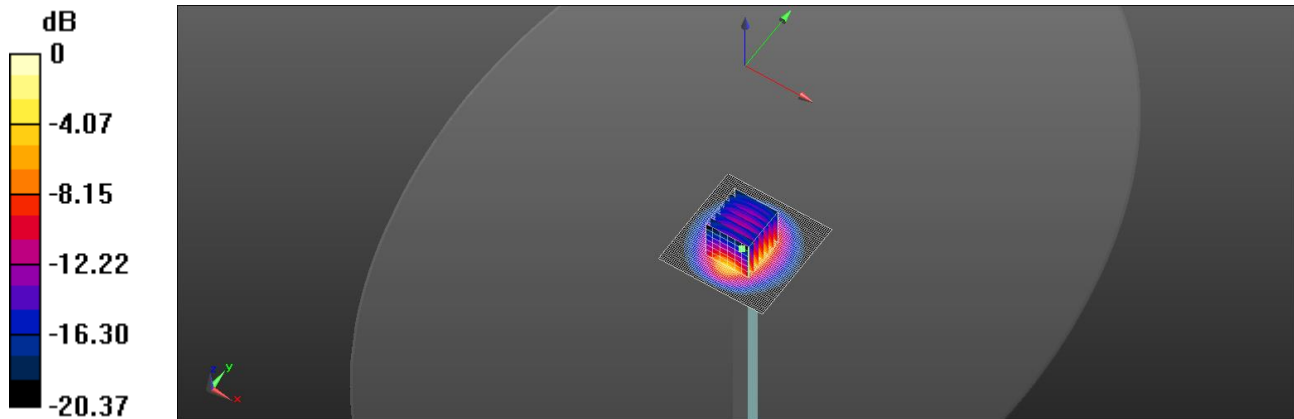
Peak SAR (extrapolated) = 26.4 W/kg

SAR(1 g) = 13.8 W/kg; SAR(10 g) = 6.52 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.4%

Maximum value of SAR (measured) = 20.3 W/kg



0 dB = 20.3 W/kg = 13.07 dBW/kg

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Date: 2024/6/22

Report No. :TESA2404000228EN

Dipole 2600 MHz_SN:1005

Communication System: CW; Frequency: 2600 MHz; Duty cycle= 1:1

Medium parameters used: $f = 2600$ MHz; $\sigma = 1.958$ S/m; $\epsilon_r = 38.335$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.3°C; Liquid temperature: 22.0°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(7.64, 7.36, 7.49) @ 2600 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=12 mm, dy=12 mm

Maximum value of SAR (interpolated) = 21.3 W/kg

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

Reference Value = 103.6 V/m; Power Drift = -0.03 dB

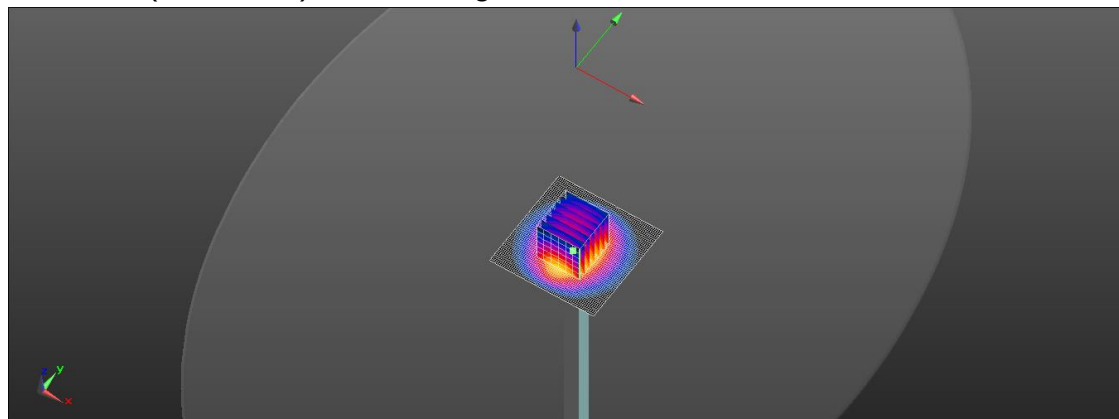
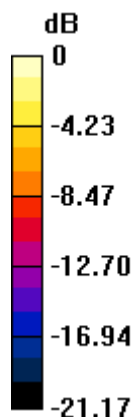
Peak SAR (extrapolated) = 26.7 W/kg

SAR(1 g) = 13.9 W/kg; SAR(10 g) = 6.49 W/kg

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

Ratio of SAR at M2 to SAR at M1 = 54.7%

Maximum value of SAR (measured) = 20.7 W/kg



0 dB = 20.7 W/kg = 13.16 dBW/kg

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Date: 2024/6/23

Report No. :TESA2404000228EN

Dipole 3500 MHz_SN:1009

Communication System: CW; Frequency: 3500 MHz; Duty cycle= 1:1

Medium parameters used: $f = 3500$ MHz; $\sigma = 2.901$ S/m; $\epsilon_r = 37.613$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

Ambient temperature: 22.8°C; Liquid temperature: 22.5°C

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(6.91, 6.66, 6.75) @ 3500 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (71x81x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 11.2 W/kg

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

Reference Value = 60.43 V/m; Power Drift = -0.09 dB

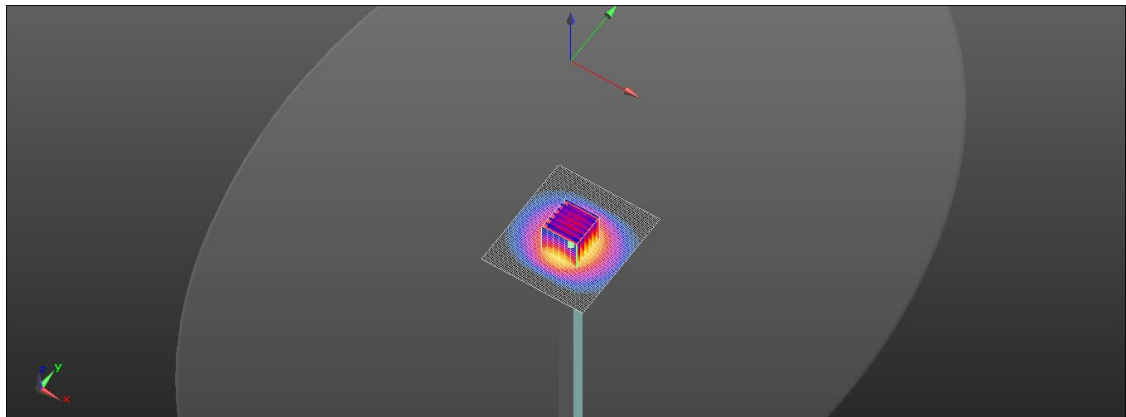
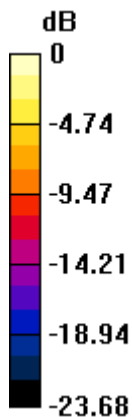
Peak SAR (extrapolated) = 15.3 W/kg

SAR(1 g) = 6.55 W/kg; SAR(10 g) = 2.55 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 71.8%

Maximum value of SAR (measured) = 10.8 W/kg



0 dB = 10.8 W/kg = 10.33 dBW/kg

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Date: 2024/6/24

Report No. :TESA2404000228EN

Dipole 3700 MHz_SN:1057

Communication System: CW; Frequency: 3700 MHz; Duty cycle= 1:1

Medium parameters used: $f = 3700$ MHz; $\sigma = 3.115$ S/m; $\epsilon_r = 36.943$; $\rho = 1000$ kg/m³

Phantom section: Flat Section

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

DASY5 Configuration:

- Probe: EX3DV4 - SN7712; ConvF(6.72, 6.43, 6.54) @ 3700 MHz; Calibrated: 2024/4/18
- Sensor-Surface: 2mm (Mechanical Surface Detection)
- Electronics: DAE4 Sn1260; Calibrated: 2023/9/14
- Phantom: ELI
- DASY52 52.10.4(1527); SEMCAD X 14.6.14(7483)

Area Scan (61x61x1): Interpolated grid: dx=10 mm, dy=10 mm

Maximum value of SAR (interpolated) = 12.1 W/kg

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

Reference Value = 58.88 V/m; Power Drift = -0.12 dB

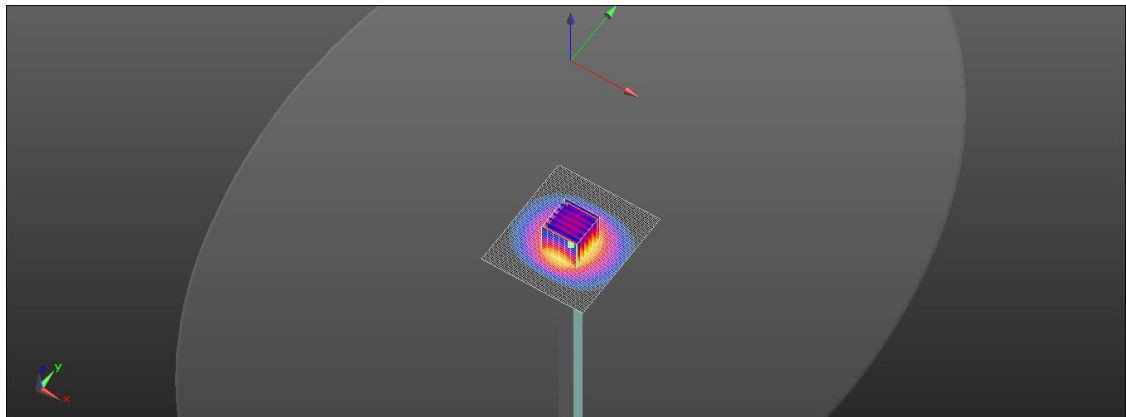
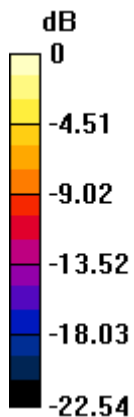
Peak SAR (extrapolated) = 17.6 W/kg

SAR(1 g) = 6.78 W/kg; SAR(10 g) = 2.49 W/kg

Smallest distance from peaks to all points 3 dB below = 8 mm

Ratio of SAR at M2 to SAR at M1 = 68.9%

Maximum value of SAR (measured) = 11.8 W/kg



0 dB = 11.8 W/kg = 10.72 dBW/kg

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12 APPENDIXES

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

- End of report -

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