

RF Exposure report



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

Product Name Notebook Computer
Brand Name HP
Model No. HSN-I49C-4
Applicant Fibocom Wireless Inc.
1101, Tower A, Building 6, Shenzhen International
Innovation Valley, Dashi 1st Rd, Nanshan, ShenZhen,
China
Standards IEEE/ANSI C95.1-1992, IEEE 1528-2013
FCC ID ZMOFM350GL
Date of EUT Receipt Dec. 27, 2022
Date of Test(s) Feb. 09, 2023 ~ Feb. 12, 2023
Date of Issue Mar. 21, 2023

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 / Kimmy Chiou	PM / Tom Chiang	Approved By / John Yeh

Date: Mar. 21, 2023

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Revision History

Report Number	Revision	Description	Issue Date	Revised By	Remark
TESA2212000671E5	00	Initial creation of document	Mar. 01, 2023	Kimmy Chiou	*
TESA2212000671E5	01	Remove highest Simultaneous Transmission	Mar. 21, 2023	Kimmy Chiou	

Note:

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

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1 GENERAL INFORMATION

1.1 Test Methodology

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

IEEE/ANSI C95.1-1992

IEEE 1528-2013

KDB447498D01v06

KDB865664D01v01r04

KDB865664D02v01r02

KDB616217D04v01r02

KDB941225D01v03r01

KDB941225D05v02r05

KDB941225D05Av01r02

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1.2 Description of EUT

Product Name	Notebook Computer	
Brand Name	HP	
Model No.	HSN-I49C-4	
FCC ID	ZMOFM350GL	
Integrated WWAN Module	Brand Name: Fibocom Model Name: FM350-GL	
Duty Cycle	WCDMA	1
	LTE FDD	1
	LTE TDD Power Class 3	0.633
	LTE TDD Power Class 2	0.433
	5G NR	1
Supported radios (TX Frequency Range, MHz)	Ant 5	
	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 17	704-716
	LTE FDD Band 25	1850-1915
	LTE FDD Band 26	814-849
	LTE FDD Band 30	2305-2315
	LTE TDD Band 38 Power Class 2/3	2570-2620
	LTE TDD Band 41 Power Class 2/3	2496-2690
	LTE FDD Band 66	1710-1780
	LTE FDD Band 71	663-698
	n2	1850-1910
	n5	824-849
	n7	2500-2570
	n25	1850-1915
	n30	2305-2315
	n38	2570-2620
	n41 Power Class 2/3	2496-2690
	n66	1710-1780
	n71	663-698
	n77 Power Class 2/3	3700-3980
	n78 Power Class 2/3	3300-3800

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Supported radios (TX Frequency Range, MHz)	Ant 8	
	LTE FDD Band 2	1850-1910
	LTE FDD Band 4	1710-1755
	LTE FDD Band 7	2500-2570
	LTE FDD Band 25	1850-1915
	LTE FDD Band 30	2305-2315
	LTE TDD Band 41 Power Class 2/3	2496-2690
	LTE TDD Band 48	3550-3700
	LTE FDD Band 66	1710-1780
	n2	1850-1910
	n38	2570-2620
	n41 Power Class 2/3	2496-2690
	n66	1710-1780
	n77 Power Class 2/3	3700-3980
	n78 Power Class 2/3	3300-3800

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1.3 Maximum value

Vendor 1

Equipment Class	Frequency Band		Highest SAR Summary
			Body (Separation 0mm)
			1g SAR (W/kg)
Licensed	LTE	LTE Band 2	0.48
		LTE Band 4	0.48
		LTE Band 7	1.10
		LTE Band 25	0.24
		LTE Band 30	0.57
		LTE Band 66	0.70
		LTE Band 41_FCC	0.59
		LTE Band 41_HPUE_FCC	1.16
		LTE Band 48	0.16
	NR	NR n2	0.30
		NR n66	0.38
		NR n38	0.45
		NR n41_PC2 & PC3	0.63
		NR n77_PC2 & PC3_FCC	0.11
		NR n77 & n78_FCC	0.25
		NR n77 & n78(HPUE)FCC	0.25
		NR n78_FCC	0.21
		NR n78(HPUE)_FCC	0.19

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Vendor 2

Equipment Class	Frequency Band		Highest SAR Summary
			Body (Separation 0mm)
			1g SAR (W/kg)
Licensed	LTE	LTE Band 2	0.83
		LTE Band 4	0.69
		LTE Band 7	1.08
		LTE Band 25	0.41
		LTE Band 30	0.72
		LTE Band 66	0.76
		LTE Band 41_FCC	1.09
		LTE Band 41_HPUE_FCC	0.97
		LTE Band 48	0.25
	NR	NR n2	0.65
		NR n66	0.53
		NR n38	1.01
		NR n41_PC2 & PC3	0.92
		NR n77_PC2 & PC3_FCC	0.44
		NR n77 & n78_FCC	0.28
		NR n77 & n78(HPUE)FCC	0.28
		NR n78_FCC	0.38
		NR n78(HPUE)_FCC	0.36

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1.4 Antenna Information

Vendor	Vendor 1								
Antenna	Ant5								
Part Number	6036B0307201 (81ELA215.G03)								
Frequency(MHz)	663~698	699~716	777~798	814~849	1710~1785	1850~1915	2300~2400	2496~2690	3300~4200
Gain (dBi)	-4.89	-1.03	1.03	-0.23	2.02	3.15	1.33	2.09	1.36
Note: Antenna information is provided by the applicant.									

Vendor	Vendor 2								
Antenna	Ant5								
Part Number	6036B0308701 (00-3302700250)								
Frequency(MHz)	663~698	699~716	777~798	814~849	1710~1780	1850~1915	2300~2400	2496~2690	3300~4200
Gain (dBi)	-3.12	-2.61	-1.30	-3.37	0.99	1.58	0.17	1.26	0.86
Note: Antenna information is provided by the applicant.									

Vendor	Vendor 1			
Antenna	Ant8			
Part Number	6036B0308001 (81EABL15.G13)			
Frequency(MHz)	1710-1780	1850-1910	2496~2690	3300~4200
Gain (dBi)	1.40	2.20	3.08	2.18
Note: Antenna information is provided by the applicant.				

Vendor	Vendor 2			
Antenna	Ant8			
Part Number	6036B0310001 (00-2602749550)			
Frequency(MHz)	1710-1780	1850-1910	2496~2690	3300~4200
Gain (dBi)	-1.92	-2.53	1.69	0.43
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		
	No. 2, Keji 1st Rd., Guishan Township, Taoyuan County, 33383, Taiwan	SAR 1	TW0028	
		SAR 4		
	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan	SAR 3	TW0027	
		SAR 7		

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

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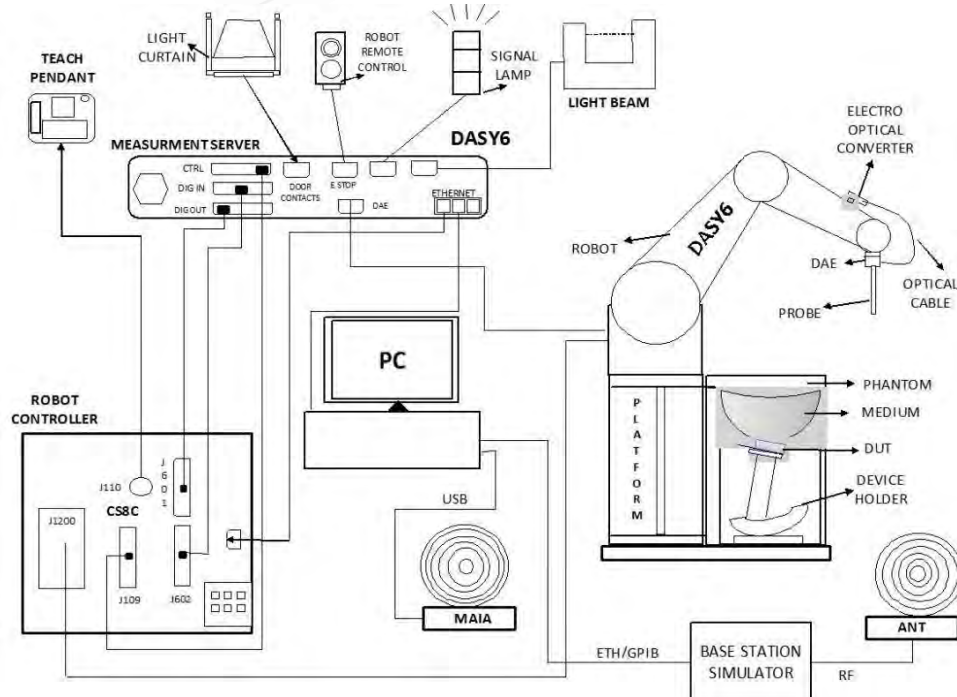
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2.2 SAR System

Block Diagram (DASY6)

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



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

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EX3DV4 E-Field Probe

Construction	Symmetrical design with triangular core Built-in shielding against static charges PEEK enclosure material (resistant to organic solvents, e.g., DGBE)	
Calibration	Basic Broad Band Calibration in air Conversion Factors (CF) for HSL 750/835/1750/1900/2300/2600/3500/3700/3900 MHz Additional CF for other liquids and frequencies upon request	
Frequency	10 MHz to > 6 GHz	
Directivity	± 0.3 dB in HSL (rotation around probe axis) ± 0.5 dB in tissue material (rotation normal to probe axis)	
Dynamic Range	10 µW/g to > 100 mW/g Linearity: ± 0.2 dB (noise: typically < 1 µW/g)	
Dimensions	Tip diameter: 2.5 mm	
Application	High precision dosimetric measurements in any exposure scenario (e.g., very strong gradient fields). Only probe which enables compliance testing for frequencies up to 6 GHz with precision of better 30%.	

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PHANTOM (ELI)

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

DEVICE HOLDER (ELI)

Construction	The device holder (Supporter) for Notebook is made by POM (polyoxymethylene resin) , which is non-metal and non-conductive. The height can be adjusted to fit varies kind of notebooks.	
		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 reference point (ERP) of the phantom to the liquid top surface is larger than 15cm. For body SAR testing, the liquid height from the center of the flat phantom to the liquid top surface is larger than 15cm.

3.2 Tissue Simulant Liquid measurement

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

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

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3.3 Measurement results of Tissue Simulant Liquid

Tissue Type	Measurement Date	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
Head	Feb, 09. 2023	673.00	42.311	0.885	43.094	0.909	1.85%	2.78%
		680.50	42.271	0.885	43.094	0.909	1.95%	2.72%
		688.00	42.231	0.886	43.094	0.909	2.04%	2.66%
		704.00	42.145	0.887	43.094	0.909	2.25%	2.54%
		707.50	42.127	0.887	43.073	0.910	2.25%	2.58%
		709.00	42.119	0.887	43.068	0.910	2.25%	2.59%
		710.00	42.113	0.887	43.062	0.910	2.25%	2.60%
		711.00	42.108	0.887	43.057	0.911	2.25%	2.61%
		750.00	41.900	0.890	42.855	0.914	2.28%	2.69%
		782.00	41.749	0.894	42.688	0.918	2.25%	2.73%
		793.00	41.698	0.895	42.631	0.919	2.24%	2.67%
		826.40	41.540	0.899	42.500	0.930	2.31%	3.49%
		829.00	41.528	0.899	42.489	0.932	2.31%	3.59%
		831.50	41.516	0.900	42.479	0.933	2.32%	3.69%
		834.00	41.505	0.900	42.471	0.934	2.33%	3.74%
		835.00	41.500	0.900	42.468	0.934	2.33%	3.77%
		836.50	41.500	0.902	42.460	0.935	2.31%	3.67%
		836.60	41.500	0.902	42.460	0.935	2.31%	3.66%
		839.00	41.500	0.904	42.453	0.935	2.30%	3.45%
		841.50	41.500	0.907	42.442	0.937	2.27%	3.26%
		844.00	41.500	0.910	42.435	0.937	2.25%	3.04%
		846.60	41.500	0.912	42.424	0.938	2.23%	2.84%
		1712.40	40.125	1.350	41.052	1.398	2.31%	3.54%
		1720.00	40.114	1.354	41.039	1.403	2.31%	3.57%
		1732.40	40.097	1.361	41.020	1.410	2.30%	3.57%
		1732.50	40.096	1.361	41.019	1.411	2.30%	3.61%
		1745.00	40.079	1.369	41.000	1.418	2.30%	3.61%
		1750.00	40.071	1.371	40.992	1.421	2.30%	3.61%
		1752.60	40.068	1.373	40.987	1.423	2.29%	3.64%
		1770.00	40.043	1.383	40.960	1.433	2.29%	3.63%

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Tissue Type	Measurement Date	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
Head	Feb, 10. 2023	1852.40	40.000	1.400	40.913	1.456	2.28%	3.97%
		1860.00	40.000	1.400	40.913	1.456	2.28%	4.00%
		1880.00	40.000	1.400	40.913	1.457	2.28%	4.08%
		1882.50	40.000	1.400	40.913	1.457	2.28%	4.09%
		1900.00	40.000	1.400	40.913	1.458	2.28%	4.13%
		1905.00	40.000	1.400	40.913	1.458	2.28%	4.14%
		1907.60	40.000	1.400	40.913	1.458	2.28%	4.14%
		2300.00	39.457	1.667	40.380	1.748	2.34%	4.83%
		2310.00	39.440	1.676	40.362	1.756	2.34%	4.80%
	Feb, 11. 2023	2510.00	39.120	1.864	40.037	1.935	2.34%	3.81%
		2535.00	39.087	1.891	40.005	1.958	2.35%	3.57%
		2546.01	39.072	1.902	39.991	1.968	2.35%	3.47%
		2549.50	39.067	1.906	39.986	1.972	2.35%	3.46%
		2560.00	39.053	1.917	39.973	1.981	2.35%	3.34%
		2580.00	39.027	1.939	39.948	2.000	2.36%	3.16%
		2592.99	39.009	1.953	39.931	2.012	2.36%	3.05%
		2593.00	39.009	1.953	39.931	2.012	2.36%	3.05%
		2595.00	39.007	1.955	39.929	2.014	2.36%	3.03%
		2600.00	39.000	1.960	39.922	2.019	2.36%	2.99%
		2610.00	38.988	1.971	39.909	2.028	2.36%	2.89%
		2636.50	38.954	2.000	39.875	2.053	2.36%	2.65%
		2640.00	38.950	2.004	39.871	2.056	2.37%	2.60%
		2680.00	38.900	2.048	39.820	2.094	2.37%	2.23%
	Feb, 12. 2023	3499.995	37.900	2.910	38.842	2.974	2.48%	2.19%
		3500.00	37.900	2.910	38.842	2.974	2.48%	2.19%
		3500.01	37.900	2.910	38.842	2.974	2.48%	2.18%
		3537.51	37.862	2.949	38.798	3.013	2.47%	2.17%
		3560.00	37.840	2.972	38.773	3.036	2.47%	2.14%
		3575.01	37.825	2.988	38.756	3.052	2.46%	2.13%
		3609.00	37.791	3.023	38.717	3.087	2.45%	2.10%
		3612.51	37.787	3.027	38.712	3.091	2.45%	2.12%
		3641.00	37.759	3.057	38.680	3.120	2.44%	2.08%
		3650.01	37.750	3.066	38.670	3.130	2.44%	2.07%
		3690.00	37.710	3.108	38.624	3.171	2.42%	2.05%
		3700.00	37.700	3.118	38.613	3.182	2.42%	2.04%
		3750.00	37.650	3.170	38.556	3.234	2.41%	2.01%
		3795.00	37.605	3.217	38.504	3.280	2.39%	1.98%
		3840.00	37.560	3.264	38.453	3.327	2.38%	1.95%
		3885.00	37.515	3.310	38.401	3.374	2.36%	1.92%
		3900.00	37.500	3.326	38.384	3.390	2.36%	1.91%
		3930.00	37.470	3.357	38.350	3.421	2.35%	1.89%

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Tissue Type	Measurement Date	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
Head	Feb, 13. 2023	673.00	42.311	0.885	42.104	0.888	-0.49%	0.40%
		680.50	42.271	0.885	42.083	0.889	-0.44%	0.41%
		688.00	42.231	0.886	42.078	0.889	-0.36%	0.37%
		704.00	42.145	0.887	42.104	0.888	-0.10%	0.17%
		707.50	42.127	0.887	42.083	0.889	-0.10%	0.20%
		709.00	42.119	0.887	42.078	0.889	-0.10%	0.21%
		710.00	42.113	0.887	42.072	0.889	-0.10%	0.21%
		711.00	42.108	0.887	42.067	0.889	-0.10%	0.22%
		750.00	41.900	0.890	41.865	0.892	-0.08%	0.18%
		782.00	41.749	0.894	41.698	0.895	-0.12%	0.12%
		793.00	41.698	0.895	41.641	0.895	-0.14%	0.03%
		826.40	41.540	0.899	41.510	0.906	-0.07%	0.75%
		829.00	41.528	0.899	41.499	0.907	-0.07%	0.84%
		831.50	41.516	0.900	41.489	0.908	-0.07%	0.93%
		834.00	41.505	0.900	41.481	0.909	-0.06%	0.98%
		835.00	41.500	0.900	41.478	0.909	-0.05%	1.00%
		836.50	41.500	0.902	41.470	0.910	-0.07%	0.90%
		836.60	41.500	0.902	41.470	0.910	-0.07%	0.89%
		839.00	41.500	0.904	41.463	0.910	-0.09%	0.68%
		841.50	41.500	0.907	41.452	0.911	-0.12%	0.50%
		844.00	41.500	0.910	41.445	0.912	-0.13%	0.27%
		846.60	41.500	0.912	41.434	0.913	-0.16%	0.08%
		1712.40	40.125	1.350	40.062	1.364	-0.16%	1.04%
		1720.00	40.114	1.354	40.049	1.369	-0.16%	1.07%
		1732.40	40.097	1.361	40.030	1.376	-0.17%	1.07%
		1732.50	40.096	1.361	40.029	1.376	-0.17%	1.11%
		1745.00	40.079	1.369	40.010	1.384	-0.17%	1.10%
		1750.00	40.071	1.371	40.002	1.387	-0.17%	1.10%
		1752.60	40.068	1.373	39.997	1.388	-0.18%	1.12%
		1770.00	40.043	1.383	39.970	1.398	-0.18%	1.11%
	Feb, 14. 2023	1852.40	40.000	1.400	39.923	1.419	-0.19%	1.36%
		1860.00	40.000	1.400	39.923	1.419	-0.19%	1.39%
		1880.00	40.000	1.400	39.923	1.420	-0.19%	1.43%
		1882.50	40.000	1.400	39.923	1.420	-0.19%	1.44%
		1900.00	40.000	1.400	39.923	1.420	-0.19%	1.45%
		1905.00	40.000	1.400	39.923	1.420	-0.19%	1.46%
		1907.60	40.000	1.400	39.923	1.420	-0.19%	1.46%
		2300.00	39.457	1.667	39.390	1.705	-0.17%	2.26%
		2310.00	39.440	1.676	39.372	1.713	-0.17%	2.23%

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Tissue Type	Measurement Date	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
Head	Feb, 15. 2023	2510.00	39.120	1.864	39.047	1.888	-0.19%	1.30%
		2535.00	39.087	1.891	39.015	1.911	-0.18%	1.07%
		2546.01	39.072	1.902	39.001	1.921	-0.18%	0.97%
		2549.50	39.067	1.906	38.996	1.925	-0.18%	0.97%
		2560.00	39.053	1.917	38.983	1.934	-0.18%	0.85%
		2580.00	39.027	1.939	38.958	1.952	-0.18%	0.68%
		2592.99	39.009	1.953	38.941	1.964	-0.18%	0.58%
		2593.00	39.009	1.953	38.941	1.964	-0.18%	0.57%
		2595.00	39.007	1.955	38.939	1.966	-0.17%	0.56%
		2600.00	39.000	1.960	38.932	1.970	-0.17%	0.52%
		2610.00	38.988	1.971	38.919	1.979	-0.17%	0.42%
		2636.50	38.954	2.000	38.885	2.004	-0.18%	0.20%
		2640.00	38.950	2.004	38.881	2.007	-0.18%	0.14%
		2680.00	38.900	2.048	38.830	2.044	-0.18%	-0.21%
	Feb, 16. 2023	3499.995	37.900	2.910	37.852	2.902	-0.13%	-0.29%
		3500.00	37.900	2.910	37.852	2.902	-0.13%	-0.29%
		3500.01	37.900	2.910	37.852	2.902	-0.13%	-0.29%
		3537.51	37.862	2.949	37.808	2.940	-0.14%	-0.29%
		3560.00	37.840	2.972	37.783	2.963	-0.15%	-0.32%
		3575.01	37.825	2.988	37.766	2.978	-0.16%	-0.33%
		3609.00	37.791	3.023	37.727	3.013	-0.17%	-0.35%
		3612.51	37.787	3.027	37.722	3.017	-0.17%	-0.33%
		3641.00	37.759	3.057	37.690	3.045	-0.18%	-0.37%
		3650.01	37.750	3.066	37.680	3.055	-0.19%	-0.37%
		3690.00	37.710	3.108	37.634	3.095	-0.20%	-0.39%
		3700.00	37.700	3.118	37.623	3.106	-0.20%	-0.40%
		3750.00	37.650	3.170	37.566	3.157	-0.22%	-0.42%
		3795.00	37.605	3.217	37.514	3.202	-0.24%	-0.45%
		3840.00	37.560	3.264	37.463	3.248	-0.26%	-0.47%
		3885.00	37.515	3.310	37.411	3.294	-0.28%	-0.49%
		3900.00	37.500	3.326	37.394	3.309	-0.28%	-0.50%
		3930.00	37.470	3.357	37.360	3.340	-0.29%	-0.51%

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3.4 The composition of the tissue simulating liquid:

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

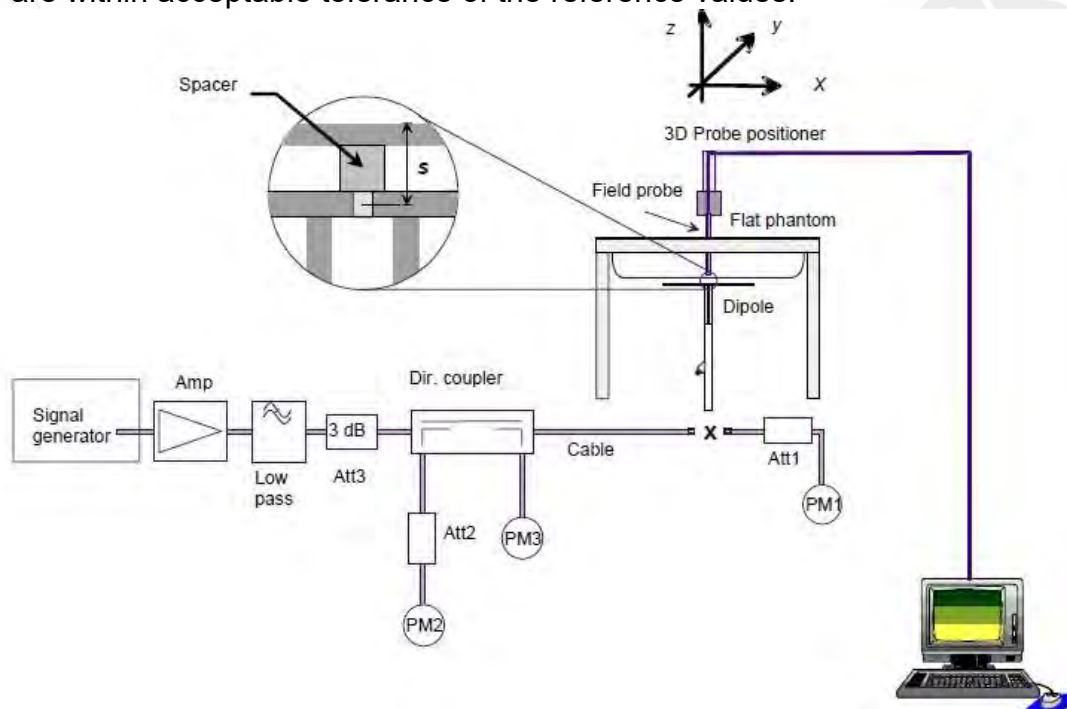
Broad-band head tissue simulating liquids	SPEAG Product	Frequency range (MHz)	Main Ingredients
	HBBL600-10000V6	600 - 10000	Water, Oil

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	8.56	2.14	8.56	0.00	± 10%	Feb.09,2023
D835V2	4d063	835	9.82	2.34	9.36	-4.68	± 10%	Feb.09,2023
D1750V2	1008	1750	36.4	8.98	35.92	-1.32	± 10%	Feb.09,2023
D1900V2	5d173	1900	39.6	9.55	38.2	-3.54	± 10%	Feb.10,2023
D2300V2	1023	2300	48.5	12	48	-1.03	± 10%	Feb.10,2023
D2600V2	1058	2600	55.6	13.8	55.2	-0.72	± 10%	Feb.11,2023
D750V3	1015	750	8.56	2.17	8.68	1.40	± 10%	Feb.13,2023
D835V2	4d063	835	9.82	2.36	9.44	-3.87	± 10%	Feb.13,2023
D1750V2	1008	1750	36.4	9.1	36.4	0.00	± 10%	Feb.13,2023
D1900V2	5d173	1900	39.6	9.47	37.88	-4.34	± 10%	Feb.14,2023
D2300V2	1023	2300	48.5	11.9	47.6	-1.86	± 10%	Feb.14,2023
D2600V2	1058	2600	55.6	13.7	54.8	-1.44	± 10%	Feb.15,2023
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	65.2	6.62	66.2	1.53	± 10%	Feb.12,2023
D3700V2	1057	3700	66.6	6.39	63.9	-4.05	± 10%	Feb.12,2023
D3900V2	1032	3900	69.5	6.72	67.2	-3.31	± 10%	Feb.12,2023
D3500V2	1009	3500	65.2	6.66	66.6	2.15	± 10%	Feb.16,2023
D3700V2	1057	3700	66.6	6.37	63.7	-4.35	± 10%	Feb.16,2023
D3900V2	1032	3900	69.5	6.76	67.6	-2.73	± 10%	Feb.16,2023

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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).
- **UMTS (HSDPA):** The 3G SAR test reduction procedure is applied to HSDPA with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSDPA) is $\leq \frac{1}{4} \text{ dB}$ higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSDPA). The following 4 sub-tests were completed according to Release 5 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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

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

- **UMTS (HSPA):** The 3G SAR test reduction procedure is applied to HSPA (HSUPA/HSDPA with RMC) with 12.2 kbps RMC as the primary mode. Since the maximum output power in a secondary mode (HSPA) is $\leq \frac{1}{4} \text{ dB}$ higher than the primary mode (WCDMA), SAR measurement is not required for the secondary mode (HSPA). The following 5 sub-tests were completed according to Release 6 procedures in section 5.2 of 3GPP TS 34.121. A summary of these setting are illustrated below:

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

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

Note 2: CM = 1 for $\beta_c/\beta_d = 12/15$, $\beta_{hs}/\beta_c = 24/15$. For all other combinations of DPDCH, DPCCH, HS-DPCCH, E-DPDCH and E-DPCCH the MPR is based on the relative CM difference.

Note 3: For subtest 1 the β_c/β_d ratio of 11/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 10/15$ and $\beta_d = 15/15$.

Note 4: For subtest 5 the β_c/β_d ratio of 15/15 for the TFC during the measurement period (TF1, TF0) is achieved by setting the signaled gain factors for the reference TFC (TF1, TF1) to $\beta_c = 14/15$ and $\beta_d = 15/15$.

Note 5: Testing UE using E-DPDCH Physical Layer category 1 Sub-test 3 is not required according to TS 25.306 Table 5.1g.

Note 6: β_{ed} cannot be set directly; it is set by Absolute Grant Value.

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

Table C.11.1.4: β values for transmitter characteristics tests with HS-DPCCH and E-DCH with 16QAM⁽¹⁾

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

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

Note 2: CM = 3.5 and the MPR is based on the relative CM difference, $MPR = \text{MAX}(CM-1, 0)$.

Note 3: DPDCH is not configured, therefore the β_c is set to 1 and $\beta_d = 0$ by default.

Note 4: β_{ed} can not be set directly; it is set by Absolute Grant Value.

Note 5: All the sub-tests require the UE to transmit 2SF2+2SF4 16QAM EDCH and they apply for UE using E-DPDCH category 7. E-DCH TTI is set to 2ms TTI and E-DCH table index = 2. To support these E-DCH configurations DPDCH is not allocated. The UE is signalled to use the extrapolation algorithm.

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

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

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

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

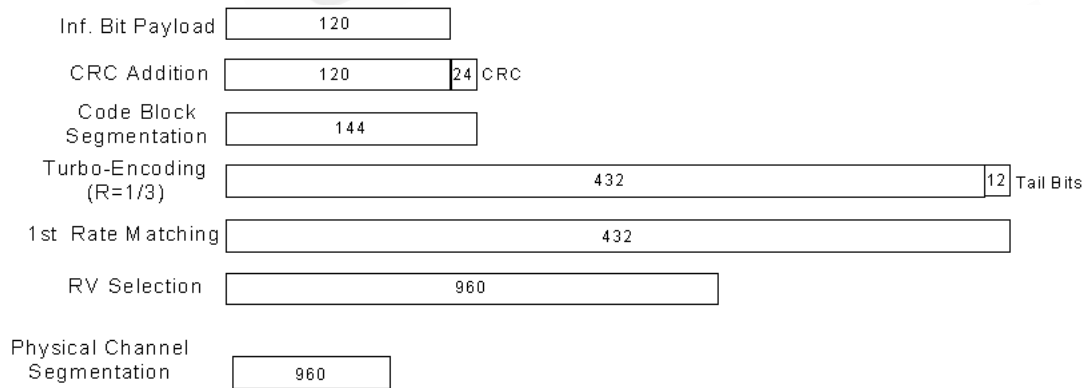


Figure C.8.19: Coding rate for Fixed reference Channel H-Set 12 (QPSK)

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

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

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

• **LTE: LTE modes test according to KDB 941225D05v02r05.**

- a. Per Section 5.2.1, the largest channel bandwidth and measure SAR for QPSK with 1 RB allocation.

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- Using the RB offset and required test channel combination with the highest maximum output power for RB offsets at the upper edge, middle and lower edge of each required test channel.
- When the reported SAR is ≤ 0.8 W/kg, testing of the remaining RB offset configurations and required test channels is not required for 1 RB allocation; otherwise, SAR is required for the remaining required test channels and only for the RB offset configuration with the highest output power for that channel.
- When the reported SAR of a required test channel is > 1.45 W/kg, SAR is required for all three RB offset configurations for that required test channel.
- b. Per Section 5.2.2, the largest channel bandwidth and measure SAR for QPSK with 50% RB allocation
- The procedures required for 1 RB allocation in 5.2.1 are applied to measure the SAR for QPSK with 50% RB allocation.
- c. Per Section 5.2.3, the largest channel bandwidth and measure SAR for QPSK with 100% RB allocation
- For QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation in 5.2.1 and 5.2.2 are ≤ 0.8 W/kg.
- Otherwise, SAR is measured for the highest output power channel and if the reported SAR is > 1.45 W/kg, the remaining required test channels must also be tested.
- d. Per Section 5.2.4, Higher order modulations
- For each modulation besides QPSK; e.g., 16-QAM, 64-QAM, apply the QPSK procedures in sections 5.2.1, 5.2.2 and 5.2.3 to determine the QAM configurations that may need SAR measurement. For each configuration identified as required for testing, SAR is required only when the highest maximum output power for the configuration in the higher order modulation is $> \frac{1}{2}$ dB higher than the same configuration in QPSK or when the reported SAR for the QPSK configuration is > 1.45 W/kg.
- e. Per Section 5.3, other channel bandwidth standalone SAR test requirements
- For the other channel bandwidths used by the device in a frequency band, apply all the procedures required for the largest channel bandwidth in section 5.2 to determine the channels and RB configurations that need SAR testing and only measure SAR when the highest maximum output power of a configuration requiring testing in the smaller channel bandwidth is $> \frac{1}{2}$ dB higher than the equivalent channel configurations in the largest channel bandwidth configuration or the

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reported SAR of a configuration for the largest channel bandwidth is > 1.45 W/kg. The equivalent channel configuration for the RB allocation, RB offset and modulation etc. is determined for the smaller channel bandwidth according to the same number of RB allocated in the largest channel bandwidth.

- TDD LTE was tested at highest duty factor using UL-DL configuration 0 with 6 UL subframes and 2 special subframes using extended cyclic prefix only and special subframe configuration 6. SAR tests were performed at maximum output power and worst-case transmission duty factor in extended cyclic prefix. Per 3GPP 36.211 Section 4.2, the duty factor for UL-DL configuration 0/special subframe configuration 6 using extended cyclic prefix is 0.633.

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

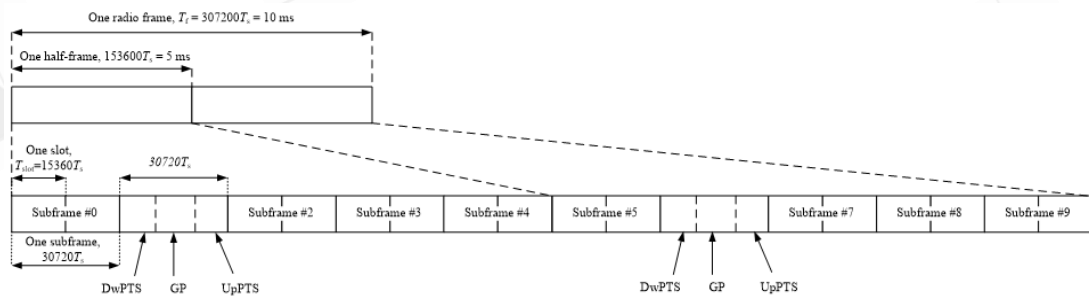


Figure 4.2-1: Frame structure type 2 (for 5 ms switch-point periodicity).

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

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

Table 4.2-2: Uplink-downlink configurations

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

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

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

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

- **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.

- **5G NR:** SAR tests for NR bands and LTE anchor bands were performed separately due to limitations in SAR probe calibration factor. Due to test setup limitation, SAR testing for NR was performed using factory test mode software to establish the connection.

- **5G NR:** 5G NR Power/SAR procedure is similar with KDB 941225 D05. **a.** For power measurement reduction of DFT-s-OFDM and CP-OFDM, CP-OFDM will not higher than DFT-OFDM based on 3GPP MPR table, so CP-OFDM QPSK power measurement is spot check for 1RB allocation/1 RB offset configuration to ensure the output power will not $\frac{1}{2}$ dB higher than $P_{i/2}$ BPSK and QPSK. **b.** For power measurement reduction of DFT-s-OFDM, 16QAM/64QAM/256QAM will not higher than $P_{i/2}$ BPSK and QPSK based on 3GPP MPR table, so $P_{i/2}$ BPSK and QPSK are measured fully, and 16QAM is spot check 1RB allocation/1 RB offset configuration to ensure the output power will not $\frac{1}{2}$ dB higher than $P_{i/2}$ BPSK and QPSK. Smaller bandwidth output power will also follow the largest bandwidth to ensure output power will not $\frac{1}{2}$ dB higher than largest supported bandwidth. **c.** SAR testing start with 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. **d.** 50% RB allocation for QPSK SAR testing follows 1RB QPSK allocation procedure. **e.** QPSK with 100% RB allocation, SAR is not required when the highest maximum output power for 100 % RB allocation is less than the highest maximum output power in 50% and 1 RB allocations and the highest reported SAR for 1 RB and 50% RB allocation 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. **f.** 16QAM/64QAM/256QAM output powers

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according to 3GPP MPR will not $\frac{1}{2}$ dB higher than the same configuration in QPSK, also reported SAR for the QPSK configuration is less than 1.45 W/kg, 16QAM/64QAM/256QAM SAR testing are not required. g. Smaller bandwidth output power for each RB allocation configuration for this device will not $\frac{1}{2}$ dB higher than the same configuration in the largest supported bandwidth, and the reported SAR for the largest supported bandwidth is ≤ 1.45 W/kg, smaller bandwidth SAR testing is not required for this device.

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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.

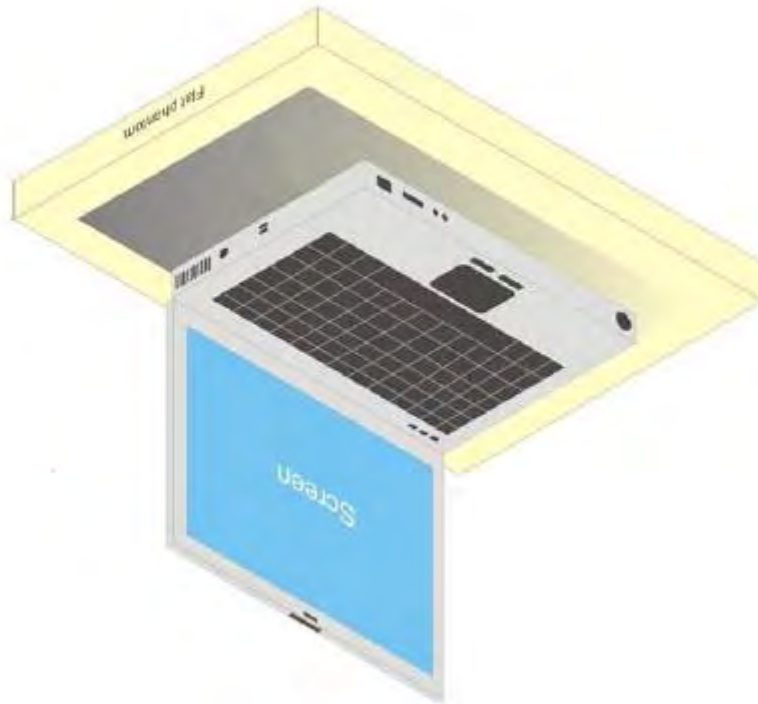


Illustration for Laptop Setup

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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 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

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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

Ant 5

Band		WCDMA II		
TX Channel		9262	9400	9538
Frequency (MHz)		1852.4	1880	1907.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.50		
3GPP Rel 99	RMC 12.2Kbps	22.97	22.94	23.15
3GPP Rel 5	HSDPA Subtest-1	22.60	22.57	22.82
	HSDPA Subtest-2	22.86	22.66	23.04
	HSDPA Subtest-3	22.24	22.17	22.15
	HSDPA Subtest-4	22.13	22.20	22.32
3GPP Rel 6	HSUPA Subtest-1	22.76	22.84	22.94
	HSUPA Subtest-2	22.38	22.43	22.46
	HSUPA Subtest-3	21.97	22.04	22.16
	HSUPA Subtest-4	21.11	21.05	21.27
	HSUPA Subtest-5	23.01	23.02	23.19
3GPP Rel 7	HSPA+	20.55	20.49	20.76
3GPP Rel 8	DC-HSDPA Subtest-1	22.95	23.05	23.14
	DC-HSDPA Subtest-2	23.05	22.97	23.17
	DC-HSDPA Subtest-3	22.66	22.61	22.82
	DC-HSDPA Subtest-4	22.62	22.57	22.68
Band		WCDMA IV		
TX Channel		1312	1413	1513
Frequency (MHz)		1712.4	1732.6	1752.6
Max. Rated Avg. Power+Max. Tolerance (dBm)		24.50		
3GPP Rel 99	RMC 12.2Kbps	23.31	23.29	23.15
3GPP Rel 5	HSDPA Subtest-1	23.11	23.12	23.01
	HSDPA Subtest-2	23.25	23.14	23.03
	HSDPA Subtest-3	22.79	22.60	22.63
	HSDPA Subtest-4	22.68	22.59	22.54
3GPP Rel 6	HSUPA Subtest-1	23.09	23.14	22.90
	HSUPA Subtest-2	21.23	21.21	21.01
	HSUPA Subtest-3	22.20	22.25	22.01
	HSUPA Subtest-4	21.25	21.22	21.08
	HSUPA Subtest-5	23.15	23.06	23.02
3GPP Rel 7	HSPA+	20.63	20.64	20.56
3GPP Rel 8	DC-HSDPA Subtest-1	23.07	23.20	23.00
	DC-HSDPA Subtest-2	23.07	23.07	23.08
	DC-HSDPA Subtest-3	22.78	22.75	22.45
	DC-HSDPA Subtest-4	22.78	22.75	22.54

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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)		24.50		
3GPP Rel 99	RMC 12.2Kbps	22.75	22.59	22.51
3GPP Rel 5	HSDPA Subtest-1	22.73	22.54	22.50
	HSDPA Subtest-2	22.72	22.70	22.51
	HSDPA Subtest-3	22.36	22.10	22.14
	HSDPA Subtest-4	22.29	22.18	22.13
3GPP Rel 6	HSUPA Subtest-1	22.86	22.74	22.54
	HSUPA Subtest-2	20.90	20.70	20.65
	HSUPA Subtest-3	21.76	21.72	21.65
	HSUPA Subtest-4	20.77	20.75	20.56
	HSUPA Subtest-5	22.80	22.57	22.57
3GPP Rel 7	HSPA+	20.35	20.21	20.10
3GPP Rel 8	DC-HSDPA Subtest-1	22.90	22.63	22.64
	DC-HSDPA Subtest-2	22.77	22.59	22.59
	DC-HSDPA Subtest-3	22.43	22.27	22.08
	DC-HSDPA Subtest-4	22.40	22.12	22.07

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5.2 FDD LTE

ANT5

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	22.71	22.83	22.81	24.00	0
		1	50	22.78	23.02	22.79	24.00	0
		1	99	22.71	22.84	22.83	24.00	0
		50	0	21.73	22.26	21.89	23.00	1
		50	25	21.76	22.48	21.73	23.00	1
		50	50	21.82	22.43	21.76	23.00	1
		100	0	21.74	22.38	21.88	23.00	1
20	16-QAM	1	0	21.87	21.80	21.89	23.00	1
		1	50	21.77	21.78	21.81	23.00	1
		1	99	21.84	21.84	21.75	23.00	1
		50	0	20.74	20.88	20.85	22.00	2
		50	25	20.86	20.76	20.83	22.00	2
		50	50	20.84	20.82	20.87	22.00	2
		100	0	20.77	20.71	20.80	22.00	2
20	64-QAM	1	0	20.71	20.82	20.77	22.00	2
		1	50	20.88	20.83	20.76	22.00	2
		1	99	20.77	20.76	20.86	22.00	2
		50	0	19.82	19.81	19.72	21.00	3
		50	25	19.88	19.74	19.82	21.00	3
		50	50	19.74	19.80	19.85	21.00	3
		100	0	19.72	19.85	19.74	21.00	3
20	256-QAM	1	0	19.89	19.76	19.78	21.00	3
		1	50	19.87	19.87	19.74	21.00	3
		1	99	19.82	19.72	19.69	21.00	3
		50	0	18.71	18.81	18.74	20.00	4
		50	25	18.70	18.80	18.82	20.00	4
		50	50	18.84	18.74	18.89	20.00	4
		100	0	18.73	18.85	18.77	20.00	4

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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	22.84	22.74	22.78	24.00	0
		1	36	22.89	22.81	22.84	24.00	0
		1	74	22.78	22.73	22.78	24.00	0
		36	0	21.87	21.76	21.75	23.00	1
		36	18	21.76	21.69	21.87	23.00	1
		36	37	21.83	21.75	21.71	23.00	1
		75	0	21.86	21.70	21.81	23.00	1
15	16-QAM	1	0	21.78	21.69	21.74	23.00	1
		1	36	21.71	21.70	21.86	23.00	1
		1	74	21.84	21.71	21.87	23.00	1
		36	0	20.72	20.70	20.87	22.00	2
		36	18	20.70	20.76	20.73	22.00	2
		36	37	20.72	20.73	20.81	22.00	2
		75	0	20.75	20.72	20.72	22.00	2
15	64-QAM	1	0	20.84	20.83	20.84	22.00	2
		1	36	20.82	20.70	20.77	22.00	2
		1	74	20.85	20.86	20.88	22.00	2
		36	0	19.85	19.88	19.73	21.00	3
		36	18	19.85	19.89	19.74	21.00	3
		36	37	19.76	19.70	19.71	21.00	3
		75	0	19.74	19.88	19.88	21.00	3
15	256-QAM	1	0	19.78	19.83	19.81	21.00	3
		1	36	19.87	19.81	19.77	21.00	3
		1	74	19.81	19.87	19.73	21.00	3
		36	0	18.88	18.71	18.82	20.00	4
		36	18	18.73	18.74	18.83	20.00	4
		36	37	18.72	18.89	18.85	20.00	4
		75	0	18.78	18.71	18.89	20.00	4

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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	22.83	22.78	22.85	24.00	0
		1	25	22.76	22.74	22.73	24.00	0
		1	49	22.77	22.74	22.78	24.00	0
		25	0	21.77	21.80	21.80	23.00	1
		25	12	21.83	21.77	21.82	23.00	1
		25	25	21.86	21.72	21.86	23.00	1
		50	0	21.72	21.77	21.74	23.00	1
10	16-QAM	1	0	21.85	21.83	21.74	23.00	1
		1	25	21.71	21.80	21.70	23.00	1
		1	49	21.77	21.81	21.75	23.00	1
		25	0	20.69	20.85	20.88	22.00	2
		25	12	20.77	20.73	20.84	22.00	2
		25	25	20.82	20.70	20.70	22.00	2
		50	0	20.77	20.80	20.86	22.00	2
10	64-QAM	1	0	20.86	20.71	20.79	22.00	2
		1	25	20.77	20.78	20.84	22.00	2
		1	49	20.81	20.72	20.73	22.00	2
		25	0	19.80	19.80	19.86	21.00	3
		25	12	19.75	19.81	19.77	21.00	3
		25	25	19.85	19.87	19.79	21.00	3
		50	0	19.70	19.82	19.82	21.00	3
10	256-QAM	1	0	19.83	19.83	19.86	21.00	3
		1	25	19.71	19.83	19.78	21.00	3
		1	49	19.88	19.88	19.69	21.00	3
		25	0	18.77	18.76	18.85	20.00	4
		25	12	18.81	18.79	18.73	20.00	4
		25	25	18.76	18.76	18.77	20.00	4
		50	0	18.85	18.76	18.71	20.00	4

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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	22.84	22.72	22.87	24.00	0
		1	12	22.85	22.72	22.73	24.00	0
		1	24	22.69	22.74	22.72	24.00	0
		12	0	21.77	21.71	21.80	23.00	1
		12	6	21.86	21.86	21.85	23.00	1
		12	13	21.79	21.82	21.80	23.00	1
		25	0	21.72	21.76	21.88	23.00	1
5	16-QAM	1	0	21.82	21.88	21.71	23.00	1
		1	12	21.70	21.77	21.72	23.00	1
		1	24	21.88	21.88	21.77	23.00	1
		12	0	20.70	20.76	20.72	22.00	2
		12	6	20.70	20.80	20.81	22.00	2
		12	13	20.71	20.79	20.78	22.00	2
		25	0	20.78	20.82	20.74	22.00	2
5	64-QAM	1	0	20.81	20.70	20.75	22.00	2
		1	12	20.71	20.79	20.87	22.00	2
		1	24	20.81	20.88	20.86	22.00	2
		12	0	19.85	19.70	19.70	21.00	3
		12	6	19.83	19.86	19.79	21.00	3
		12	13	19.74	19.71	19.80	21.00	3
		25	0	19.78	19.76	19.74	21.00	3
5	256-QAM	1	0	19.78	19.88	19.82	21.00	3
		1	12	19.85	19.85	19.74	21.00	3
		1	24	19.82	19.85	19.82	21.00	3
		12	0	18.78	18.88	18.87	20.00	4
		12	6	18.85	18.82	18.70	20.00	4
		12	13	18.76	18.88	18.76	20.00	4
		25	0	18.79	18.70	18.87	20.00	4

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LTE Band 2								
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Frequency (MHz)				1851.5	1880	1908.5		
Channel				18615	18900	19185		
3	QPSK	1	0	22.78	22.80	22.71	24.00	0
		1	7	22.84	22.88	22.80	24.00	0
		1	14	22.84	22.88	22.83	24.00	0
		8	0	21.74	21.71	21.88	23.00	1
		8	4	21.74	21.74	21.85	23.00	1
		8	7	21.76	21.76	21.83	23.00	1
		15	0	21.88	21.81	21.88	23.00	1
3	16-QAM	1	0	21.82	21.81	21.80	23.00	1
		1	7	21.72	21.79	21.71	23.00	1
		1	14	21.75	21.75	21.80	23.00	1
		8	0	20.71	20.76	20.71	22.00	2
		8	4	20.85	20.70	20.87	22.00	2
		8	7	20.73	20.82	20.83	22.00	2
		15	0	20.74	20.83	20.87	22.00	2
3	64-QAM	1	0	20.75	20.85	20.88	22.00	2
		1	7	20.88	20.83	20.85	22.00	2
		1	14	20.81	20.72	20.79	22.00	2
		8	0	19.88	19.82	19.84	21.00	3
		8	4	19.85	19.73	19.81	21.00	3
		8	7	19.78	19.79	19.83	21.00	3
		15	0	19.71	19.78	19.77	21.00	3
3	256-QAM	1	0	19.78	19.81	19.82	21.00	3
		1	7	19.73	19.87	19.74	21.00	3
		1	14	19.84	19.74	19.76	21.00	3
		8	0	18.89	18.83	18.87	20.00	4
		8	4	18.73	18.82	18.84	20.00	4
		8	7	18.71	18.75	18.71	20.00	4
		15	0	18.83	18.78	18.70	20.00	4

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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	22.88	22.80	22.74	24.00	0
		1	2	22.87	22.81	22.77	24.00	0
		1	5	22.87	22.85	22.85	24.00	0
		3	0	22.83	22.71	22.77	24.00	0
		3	2	22.78	22.73	22.88	24.00	0
		3	3	22.74	22.76	22.76	24.00	0
		6	0	21.72	21.72	21.85	23.00	1
1.4	16-QAM	1	0	21.74	21.88	21.74	23.00	1
		1	2	21.75	21.76	21.81	23.00	1
		1	5	21.80	21.83	21.78	23.00	1
		3	0	21.86	21.76	21.79	23.00	1
		3	2	21.81	21.74	21.85	23.00	1
		3	3	21.76	21.81	21.81	23.00	1
		6	0	20.70	20.73	20.73	22.00	2
1.4	64-QAM	1	0	20.81	20.72	20.84	22.00	2
		1	2	20.69	20.88	20.85	22.00	2
		1	5	20.88	20.81	20.83	22.00	2
		3	0	20.70	20.78	20.78	22.00	2
		3	2	20.86	20.83	20.79	22.00	2
		3	3	20.84	20.88	20.72	22.00	2
		6	0	19.74	19.77	19.88	21.00	3
1.4	256-QAM	1	0	19.81	19.85	19.78	21.00	3
		1	2	19.74	19.70	19.86	21.00	3
		1	5	19.88	19.82	19.76	21.00	3
		3	0	19.78	19.84	19.74	21.00	3
		3	2	19.79	19.69	19.76	21.00	3
		3	3	19.74	19.82	19.87	21.00	3
		6	0	18.88	18.72	18.83	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1720	1732.5	1745		
Channel				20050	20175	20300		
20	QPSK	1	0	23.41	23.35	23.31	24.00	0
		1	50	23.48	23.19	23.03	24.00	0
		1	99	23.23	23.01	23.12	24.00	0
		50	0	22.82	22.13	22.05	23.00	1
		50	25	22.88	22.16	22.11	23.00	1
		50	50	22.91	22.09	22.04	23.00	1
		100	0	22.87	22.01	22.14	23.00	1
20	16-QAM	1	0	22.12	22.07	22.06	23.00	1
		1	50	22.03	22.11	22.15	23.00	1
		1	99	22.05	22.08	22.19	23.00	1
		50	0	21.13	21.15	21.08	22.00	2
		50	25	21.04	21.13	21.03	22.00	2
		50	50	21.12	21.15	21.06	22.00	2
		100	0	21.17	21.04	21.06	22.00	2
20	64-QAM	1	0	21.04	21.20	21.19	22.00	2
		1	50	21.01	21.14	21.10	22.00	2
		1	99	21.16	21.14	21.18	22.00	2
		50	0	20.03	20.10	20.18	21.00	3
		50	25	20.10	20.10	20.14	21.00	3
		50	50	20.10	20.19	20.15	21.00	3
		100	0	20.13	20.15	20.06	21.00	3
20	256-QAM	1	0	20.10	20.12	20.17	21.00	3
		1	50	20.02	20.10	20.01	21.00	3
		1	99	20.14	20.03	20.05	21.00	3
		50	0	19.15	19.16	19.19	20.00	4
		50	25	19.07	19.08	19.13	20.00	4
		50	50	19.01	19.12	19.15	20.00	4
		100	0	19.03	19.05	19.14	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1717.5	1732.5	1747.5		
Channel				20025	20175	20325		
15	QPSK	1	0	23.13	23.02	23.09	24.00	0
		1	36	23.01	23.17	23.11	24.00	0
		1	74	23.10	23.08	23.08	24.00	0
		36	0	22.13	22.14	22.01	23.00	1
		36	18	22.10	22.13	22.01	23.00	1
		36	37	22.17	22.19	22.12	23.00	1
		75	0	22.00	22.12	22.13	23.00	1
15	16-QAM	1	0	22.16	22.15	22.08	23.00	1
		1	36	22.15	22.00	22.13	23.00	1
		1	74	22.12	22.10	22.15	23.00	1
		36	0	21.20	21.17	21.07	22.00	2
		36	18	21.06	21.19	21.09	22.00	2
		36	37	21.01	21.07	21.15	22.00	2
		75	0	21.08	21.06	21.18	22.00	2
15	64-QAM	1	0	21.18	21.10	21.11	22.00	2
		1	36	21.08	21.17	21.06	22.00	2
		1	74	21.13	21.19	21.05	22.00	2
		36	0	20.20	20.17	20.09	21.00	3
		36	18	20.06	20.06	20.05	21.00	3
		36	37	20.04	20.09	20.17	21.00	3
		75	0	20.09	20.09	20.14	21.00	3
15	256-QAM	1	0	20.01	20.08	20.09	21.00	3
		1	36	20.20	20.09	20.17	21.00	3
		1	74	20.16	20.11	20.10	21.00	3
		36	0	19.20	19.13	19.08	20.00	4
		36	18	19.15	19.06	19.19	20.00	4
		36	37	19.08	19.17	19.11	20.00	4
		75	0	19.08	19.06	19.12	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1715	1732.5	1750		
Channel				20000	20175	20350		
10	QPSK	1	0	23.12	23.11	23.17	24.00	0
		1	25	23.07	23.16	23.15	24.00	0
		1	49	23.09	23.06	23.12	24.00	0
		25	0	22.20	22.13	22.19	23.00	1
		25	12	22.01	22.06	22.14	23.00	1
		25	25	22.11	22.04	22.08	23.00	1
		50	0	22.17	22.02	22.02	23.00	1
10	16-QAM	1	0	22.00	22.13	22.01	23.00	1
		1	25	22.18	22.01	22.15	23.00	1
		1	49	22.11	22.18	22.01	23.00	1
		25	0	21.02	21.19	21.10	22.00	2
		25	12	21.00	21.19	21.01	22.00	2
		25	25	21.04	21.02	21.19	22.00	2
		50	0	21.03	21.09	21.03	22.00	2
10	64-QAM	1	0	21.10	21.10	21.17	22.00	2
		1	25	21.10	21.02	21.04	22.00	2
		1	49	21.05	21.11	21.03	22.00	2
		25	0	20.15	20.18	20.01	21.00	3
		25	12	20.11	20.19	20.16	21.00	3
		25	25	20.05	20.18	20.16	21.00	3
		50	0	20.12	20.18	20.12	21.00	3
10	256-QAM	1	0	20.16	20.07	20.06	21.00	3
		1	25	20.05	20.15	20.05	21.00	3
		1	49	20.03	20.06	20.12	21.00	3
		25	0	19.11	19.16	19.15	20.00	4
		25	12	19.05	19.12	19.11	20.00	4
		25	25	19.03	19.02	19.15	20.00	4
		50	0	19.15	19.06	19.13	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	23.08	23.04	23.01	24.00	0
		1	12	23.03	23.16	23.18	24.00	0
		1	24	23.05	23.16	23.03	24.00	0
		12	0	22.08	22.11	22.09	23.00	1
		12	6	22.18	22.11	22.16	23.00	1
		12	13	22.07	22.07	22.03	23.00	1
		25	0	22.13	22.17	22.02	23.00	1
5	16-QAM	1	0	22.12	22.05	22.19	23.00	1
		1	12	22.17	22.02	22.15	23.00	1
		1	24	22.00	22.01	22.18	23.00	1
		12	0	21.16	21.14	21.01	22.00	2
		12	6	21.03	21.07	21.05	22.00	2
		12	13	21.16	21.02	21.14	22.00	2
		25	0	21.17	21.05	21.16	22.00	2
5	64-QAM	1	0	21.02	21.16	21.17	22.00	2
		1	12	21.02	21.16	21.16	22.00	2
		1	24	21.02	21.05	21.07	22.00	2
		12	0	20.12	20.04	20.16	21.00	3
		12	6	20.10	20.16	20.16	21.00	3
		12	13	20.00	20.02	20.07	21.00	3
		25	0	20.04	20.05	20.15	21.00	3
5	256-QAM	1	0	20.03	20.05	20.12	21.00	3
		1	12	20.14	20.04	20.13	21.00	3
		1	24	20.08	20.17	20.07	21.00	3
		12	0	19.19	19.08	19.05	20.00	4
		12	6	19.07	19.01	19.09	20.00	4
		12	13	19.01	19.13	19.11	20.00	4
		25	0	19.08	19.08	19.19	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1711.5	1732.5	1753.5		
Channel				19965	20175	20385		
3	QPSK	1	0	23.03	23.13	23.09	24.00	0
		1	7	23.03	23.05	23.15	24.00	0
		1	14	23.08	23.15	23.18	24.00	0
		8	0	22.05	22.13	22.13	23.00	1
		8	4	22.17	22.02	22.02	23.00	1
		8	7	22.02	22.11	22.12	23.00	1
		15	0	22.13	22.13	22.12	23.00	1
3	16-QAM	1	0	22.15	22.11	22.09	23.00	1
		1	7	22.03	22.03	22.14	23.00	1
		1	14	22.00	22.13	22.17	23.00	1
		8	0	21.09	21.08	21.08	22.00	2
		8	4	21.10	21.10	21.12	22.00	2
		8	7	21.05	21.10	21.06	22.00	2
		15	0	21.03	21.19	21.02	22.00	2
3	64-QAM	1	0	21.12	21.08	21.12	22.00	2
		1	7	21.05	21.10	21.18	22.00	2
		1	14	21.06	21.11	21.13	22.00	2
		8	0	20.08	20.06	20.08	21.00	3
		8	4	20.17	20.04	20.05	21.00	3
		8	7	20.10	20.13	20.19	21.00	3
		15	0	20.17	20.19	20.05	21.00	3
3	256-QAM	1	0	20.10	20.15	20.12	21.00	3
		1	7	20.08	20.01	20.20	21.00	3
		1	14	20.02	20.04	20.10	21.00	3
		8	0	19.19	19.07	19.18	20.00	4
		8	4	19.08	19.07	19.13	20.00	4
		8	7	19.17	19.11	19.09	20.00	4
		15	0	19.08	19.12	19.17	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	23.01	23.08	23.12	24.00	0
		1	2	23.07	23.10	23.13	24.00	0
		1	5	23.13	23.06	23.18	24.00	0
		3	0	23.14	23.19	23.08	24.00	0
		3	2	23.13	23.10	23.09	24.00	0
		3	3	23.14	23.08	23.11	24.00	0
		6	0	22.09	22.06	22.09	23.00	1
1.4	16-QAM	1	0	22.12	22.17	22.12	23.00	1
		1	2	22.17	22.09	22.18	23.00	1
		1	5	22.17	22.15	22.02	23.00	1
		3	0	22.11	22.13	22.17	23.00	1
		3	2	22.05	22.13	22.11	23.00	1
		3	3	22.08	22.05	22.17	23.00	1
		6	0	21.01	21.08	21.13	22.00	2
1.4	64-QAM	1	0	21.02	21.17	21.16	22.00	2
		1	2	21.07	21.07	21.08	22.00	2
		1	5	21.07	21.13	21.16	22.00	2
		3	0	21.14	21.16	21.09	22.00	2
		3	2	21.12	21.19	21.10	22.00	2
		3	3	21.13	21.20	21.04	22.00	2
		6	0	20.16	20.17	20.12	21.00	3
1.4	256-QAM	1	0	20.10	20.12	20.03	21.00	3
		1	2	20.17	20.19	20.18	21.00	3
		1	5	20.08	20.18	20.10	21.00	3
		3	0	20.14	20.02	20.11	21.00	3
		3	2	20.03	20.16	20.06	21.00	3
		3	3	20.15	20.06	20.17	21.00	3
		6	0	19.07	19.04	19.07	20.00	4

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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	23.36	23.85	23.88	25.00	0
		1	25	23.69	23.70	23.79	25.00	0
		1	49	23.64	23.70	23.68	25.00	0
		25	0	22.62	22.62	23.28	24.00	1
		25	12	22.72	22.78	23.27	24.00	1
		25	25	22.61	22.64	23.26	24.00	1
		50	0	22.67	22.61	23.27	24.00	1
10	16-QAM	1	0	22.70	22.66	22.70	24.00	1
		1	25	22.71	22.60	22.72	24.00	1
		1	49	22.64	22.71	22.78	24.00	1
		25	0	21.76	21.62	21.68	23.00	2
		25	12	21.69	21.74	21.64	23.00	2
		25	25	21.61	21.66	21.61	23.00	2
		50	0	21.69	21.67	21.65	23.00	2
10	64-QAM	1	0	21.65	21.67	21.78	23.00	2
		1	25	21.68	21.71	21.73	23.00	2
		1	49	21.78	21.62	21.63	23.00	2
		25	0	20.61	20.78	20.76	22.00	3
		25	12	20.72	20.66	20.65	22.00	3
		25	25	20.69	20.69	20.68	22.00	3
		50	0	20.73	20.69	20.73	22.00	3
10	256-QAM	1	0	20.73	20.67	20.78	22.00	3
		1	25	20.62	20.64	20.65	22.00	3
		1	49	20.68	20.70	20.67	22.00	3
		25	0	19.73	19.74	19.65	21.00	4
		25	12	19.74	19.70	19.73	21.00	4
		25	25	19.72	19.70	19.71	21.00	4
		50	0	19.69	19.79	19.71	21.00	4

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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)				826.5	836.5	846.5		
Channel				20425	20525	20625		
5	QPSK	1	0	23.73	23.79	23.77	25.00	0
		1	12	23.78	23.77	23.76	25.00	0
		1	24	23.63	23.63	23.62	25.00	0
		12	0	22.60	22.63	22.76	24.00	1
		12	6	22.77	22.63	22.66	24.00	1
		12	13	22.62	22.69	22.72	24.00	1
		25	0	22.61	22.62	22.79	24.00	1
5	16-QAM	1	0	22.78	22.67	22.78	24.00	1
		1	12	22.69	22.70	22.78	24.00	1
		1	24	22.76	22.74	22.60	24.00	1
		12	0	21.80	21.69	21.76	23.00	2
		12	6	21.69	21.69	21.75	23.00	2
		12	13	21.78	21.61	21.68	23.00	2
		25	0	21.67	21.77	21.73	23.00	2
5	64-QAM	1	0	21.76	21.78	21.80	23.00	2
		1	12	21.67	21.64	21.61	23.00	2
		1	24	21.77	21.69	21.79	23.00	2
		12	0	20.75	20.65	20.70	22.00	3
		12	6	20.61	20.80	20.63	22.00	3
		12	13	20.79	20.63	20.77	22.00	3
		25	0	20.79	20.75	20.70	22.00	3
5	256-QAM	1	0	20.63	20.67	20.66	22.00	3
		1	12	20.79	20.77	20.70	22.00	3
		1	24	20.72	20.68	20.62	22.00	3
		12	0	19.61	19.66	19.78	21.00	4
		12	6	19.70	19.78	19.69	21.00	4
		12	13	19.62	19.66	19.77	21.00	4
		25	0	19.80	19.78	19.66	21.00	4

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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	23.60	23.76	23.71	25.00	0
		1	7	23.68	23.75	23.62	25.00	0
		1	14	23.77	23.76	23.79	25.00	0
		8	0	22.62	22.69	22.64	24.00	1
		8	4	22.77	22.73	22.71	24.00	1
		8	7	22.71	22.60	22.74	24.00	1
		15	0	22.64	22.63	22.67	24.00	1
3	16-QAM	1	0	22.80	22.65	22.72	24.00	1
		1	7	22.61	22.68	22.76	24.00	1
		1	14	22.61	22.77	22.74	24.00	1
		8	0	21.79	21.80	21.76	23.00	2
		8	4	21.63	21.67	21.79	23.00	2
		8	7	21.69	21.65	21.77	23.00	2
		15	0	21.64	21.60	21.71	23.00	2
3	64-QAM	1	0	21.71	21.63	21.67	23.00	2
		1	7	21.63	21.65	21.72	23.00	2
		1	14	21.65	21.63	21.66	23.00	2
		8	0	20.77	20.67	20.78	22.00	3
		8	4	20.72	20.78	20.75	22.00	3
		8	7	20.80	20.68	20.75	22.00	3
		15	0	20.67	20.61	20.67	22.00	3
3	256-QAM	1	0	20.61	20.63	20.65	22.00	3
		1	7	20.69	20.77	20.69	22.00	3
		1	14	20.71	20.74	20.72	22.00	3
		8	0	19.62	19.73	19.76	21.00	4
		8	4	19.70	19.79	19.78	21.00	4
		8	7	19.76	19.77	19.68	21.00	4
		15	0	19.65	19.69	19.64	21.00	4

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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)				824.7	836.5	848.3		
Channel				20407	20525	20643		
1.4	QPSK	1	0	23.64	23.76	23.79	25.00	0
		1	2	23.63	23.63	23.64	25.00	0
		1	5	23.77	23.71	23.66	25.00	0
		3	0	23.79	23.72	23.67	25.00	0
		3	2	23.65	23.65	23.80	25.00	0
		3	3	23.70	23.67	23.77	25.00	0
		6	0	22.78	22.76	22.63	24.00	1
1.4	16-QAM	1	0	22.72	22.76	22.64	24.00	1
		1	2	22.71	22.80	22.75	24.00	1
		1	5	22.67	22.76	22.78	24.00	1
		3	0	22.70	22.68	22.73	24.00	1
		3	2	22.63	22.70	22.63	24.00	1
		3	3	22.64	22.66	22.65	24.00	1
		6	0	21.69	21.76	21.63	23.00	2
1.4	64-QAM	1	0	21.72	21.67	21.67	23.00	2
		1	2	21.67	21.68	21.62	23.00	2
		1	5	21.74	21.68	21.64	23.00	2
		3	0	21.78	21.63	21.62	23.00	2
		3	2	21.71	21.78	21.63	23.00	2
		3	3	21.79	21.69	21.68	23.00	2
		6	0	20.74	20.63	20.79	22.00	3
1.4	256-QAM	1	0	20.74	20.65	20.70	22.00	3
		1	2	20.79	20.71	20.66	22.00	3
		1	5	20.62	20.66	20.65	22.00	3
		3	0	20.71	20.79	20.70	22.00	3
		3	2	20.63	20.73	20.63	22.00	3
		3	3	20.68	20.61	20.79	22.00	3
		6	0	19.65	19.71	19.70	21.00	4

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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	22.48	22.51	22.61	24.00	0
		1	50	22.69	22.72	22.85	24.00	0
		1	99	22.76	22.69	22.87	24.00	0
		50	0	21.77	21.72	22.28	23.00	1
		50	25	21.80	21.70	22.31	23.00	1
		50	50	21.74	21.63	22.27	23.00	1
		100	0	21.63	21.61	22.24	23.00	1
20	16-QAM	1	0	21.65	21.71	21.66	23.00	1
		1	50	21.74	21.63	21.67	23.00	1
		1	99	21.76	21.74	21.70	23.00	1
		50	0	20.73	20.63	20.76	22.00	2
		50	25	20.79	20.61	20.66	22.00	2
		50	50	20.76	20.72	20.61	22.00	2
		100	0	20.65	20.70	20.78	22.00	2
20	64-QAM	1	0	20.76	20.74	20.65	22.00	2
		1	50	20.69	20.66	20.65	22.00	2
		1	99	20.80	20.70	20.70	22.00	2
		50	0	19.63	19.72	19.64	21.00	3
		50	25	19.71	19.72	19.75	21.00	3
		50	50	19.75	19.65	19.68	21.00	3
		100	0	19.62	19.68	19.73	21.00	3
20	256-QAM	1	0	19.75	19.72	19.71	21.00	3
		1	50	19.71	19.78	19.80	21.00	3
		1	99	19.61	19.68	19.78	21.00	3
		50	0	18.67	18.78	18.78	20.00	4
		50	25	18.66	18.73	18.66	20.00	4
		50	50	18.71	18.76	18.78	20.00	4
		100	0	18.78	18.66	18.67	20.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	22.71	22.78	22.79	24.00	0
		1	36	22.70	22.68	22.70	24.00	0
		1	74	22.61	22.62	22.60	24.00	0
		36	0	21.64	21.71	21.63	23.00	1
		36	18	21.60	21.71	21.70	23.00	1
		36	37	21.72	21.66	21.79	23.00	1
		75	0	21.70	21.78	21.71	23.00	1
15	16-QAM	1	0	21.77	21.74	21.70	23.00	1
		1	36	21.74	21.64	21.67	23.00	1
		1	74	21.70	21.73	21.78	23.00	1
		36	0	20.76	20.79	20.61	22.00	2
		36	18	20.62	20.78	20.76	22.00	2
		36	37	20.73	20.69	20.64	22.00	2
		75	0	20.79	20.72	20.80	22.00	2
15	64-QAM	1	0	20.75	20.80	20.69	22.00	2
		1	36	20.72	20.61	20.71	22.00	2
		1	74	20.61	20.69	20.69	22.00	2
		36	0	19.78	19.68	19.75	21.00	3
		36	18	19.76	19.68	19.78	21.00	3
		36	37	19.74	19.72	19.67	21.00	3
		75	0	19.77	19.78	19.80	21.00	3
15	256-QAM	1	0	19.70	19.60	19.80	21.00	3
		1	36	19.73	19.69	19.73	21.00	3
		1	74	19.69	19.68	19.67	21.00	3
		36	0	18.61	18.61	18.68	20.00	4
		36	18	18.75	18.72	18.80	20.00	4
		36	37	18.79	18.73	18.73	20.00	4
		75	0	18.76	18.62	18.80	20.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2505	2535	2565		
Channel				20800	21100	21400		
10	QPSK	1	0	22.63	22.63	22.72	24.00	0
		1	25	22.63	22.63	22.77	24.00	0
		1	49	22.78	22.64	22.69	24.00	0
		25	0	21.78	21.67	21.77	23.00	1
		25	12	21.76	21.63	21.60	23.00	1
		25	25	21.76	21.61	21.61	23.00	1
		50	0	21.68	21.65	21.65	23.00	1
10	16-QAM	1	0	21.67	21.72	21.70	23.00	1
		1	25	21.69	21.69	21.79	23.00	1
		1	49	21.78	21.61	21.75	23.00	1
		25	0	20.62	20.67	20.80	22.00	2
		25	12	20.74	20.68	20.77	22.00	2
		25	25	20.61	20.74	20.73	22.00	2
		50	0	20.62	20.60	20.69	22.00	2
10	64-QAM	1	0	20.67	20.69	20.63	22.00	2
		1	25	20.69	20.74	20.64	22.00	2
		1	49	20.74	20.79	20.79	22.00	2
		25	0	19.78	19.64	19.63	21.00	3
		25	12	19.69	19.72	19.77	21.00	3
		25	25	19.77	19.62	19.66	21.00	3
		50	0	19.69	19.78	19.71	21.00	3
10	256-QAM	1	0	19.72	19.74	19.70	21.00	3
		1	25	19.66	19.70	19.67	21.00	3
		1	49	19.67	19.61	19.71	21.00	3
		25	0	18.71	18.69	18.60	20.00	4
		25	12	18.68	18.72	18.68	20.00	4
		25	25	18.71	18.77	18.78	20.00	4
		50	0	18.78	18.60	18.65	20.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	22.63	22.77	22.69	24.00	0
		1	12	22.77	22.71	22.61	24.00	0
		1	24	22.79	22.60	22.76	24.00	0
		12	0	21.67	21.78	21.69	23.00	1
		12	6	21.75	21.71	21.63	23.00	1
		12	13	21.66	21.62	21.75	23.00	1
		25	0	21.62	21.66	21.73	23.00	1
5	16-QAM	1	0	21.73	21.75	21.74	23.00	1
		1	12	21.71	21.72	21.73	23.00	1
		1	24	21.60	21.79	21.66	23.00	1
		12	0	20.72	20.74	20.68	22.00	2
		12	6	20.62	20.62	20.69	22.00	2
		12	13	20.65	20.75	20.62	22.00	2
		25	0	20.69	20.80	20.71	22.00	2
5	64-QAM	1	0	20.61	20.70	20.67	22.00	2
		1	12	20.63	20.74	20.75	22.00	2
		1	24	20.73	20.74	20.70	22.00	2
		12	0	19.61	19.68	19.76	21.00	3
		12	6	19.79	19.60	19.63	21.00	3
		12	13	19.78	19.77	19.74	21.00	3
		25	0	19.61	19.73	19.63	21.00	3
5	256-QAM	1	0	19.63	19.68	19.61	21.00	3
		1	12	19.78	19.80	19.72	21.00	3
		1	24	19.77	19.74	19.64	21.00	3
		12	0	18.67	18.72	18.70	20.00	4
		12	6	18.64	18.65	18.62	20.00	4
		12	13	18.68	18.72	18.67	20.00	4
		25	0	18.78	18.79	18.67	20.00	4

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				704	707.5	711		
Channel				23060	23095	23130		
10	QPSK	1	0	23.13	23.02	22.99	24.00	0
		1	25	23.11	23.09	23.08	24.00	0
		1	49	23.07	23.08	23.01	24.00	0
		25	0	22.09	22.07	22.10	23.00	1
		25	12	22.06	21.97	22.05	23.00	1
		25	25	22.17	21.94	22.00	23.00	1
		50	0	22.13	22.00	22.05	23.00	1
10	16-QAM	1	0	21.91	21.97	22.07	23.00	1
		1	25	21.92	22.08	22.01	23.00	1
		1	49	21.94	21.94	22.07	23.00	1
		25	0	20.91	21.02	20.94	22.00	2
		25	12	20.97	21.00	20.91	22.00	2
		25	25	21.00	20.94	20.93	22.00	2
		50	0	21.05	20.99	21.09	22.00	2
10	64-QAM	1	0	20.92	20.98	21.03	22.00	2
		1	25	20.97	20.94	21.03	22.00	2
		1	49	21.05	21.00	21.07	22.00	2
		25	0	20.09	19.99	20.07	21.00	3
		25	12	20.03	19.93	19.98	21.00	3
		25	25	20.04	19.96	20.09	21.00	3
		50	0	19.90	20.08	20.10	21.00	3
10	256-QAM	1	0	20.05	19.92	20.05	21.00	3
		1	25	19.94	19.95	19.96	21.00	3
		1	49	19.97	20.06	19.95	21.00	3
		25	0	19.02	19.08	19.03	20.00	4
		25	12	19.00	19.04	18.97	20.00	4
		25	25	18.99	18.93	18.96	20.00	4
		50	0	19.02	19.00	19.08	20.00	4

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LTE Band 12								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				701.5	707.5	713.5		
Channel				23035	23095	23155		
5	QPSK	1	0	23.01	22.92	23.00	24.00	0
		1	12	22.92	22.92	22.97	24.00	0
		1	24	22.91	23.03	23.08	24.00	0
		12	0	22.01	21.95	21.90	23.00	1
		12	6	22.05	21.92	22.03	23.00	1
		12	13	21.95	21.91	22.06	23.00	1
		25	0	22.02	22.02	21.94	23.00	1
5	16-QAM	1	0	21.94	21.93	21.96	23.00	1
		1	12	21.93	22.03	21.94	23.00	1
		1	24	21.96	21.94	22.09	23.00	1
		12	0	21.07	21.09	20.94	22.00	2
		12	6	21.03	21.08	21.04	22.00	2
		12	13	21.06	20.99	20.93	22.00	2
		25	0	21.02	20.91	20.97	22.00	2
5	64-QAM	1	0	21.09	21.05	20.95	22.00	2
		1	12	21.05	20.92	21.02	22.00	2
		1	24	21.00	20.98	20.97	22.00	2
		12	0	20.00	20.05	20.04	21.00	3
		12	6	20.03	20.05	20.04	21.00	3
		12	13	19.94	19.95	19.97	21.00	3
		25	0	20.04	19.99	19.91	21.00	3
5	256-QAM	1	0	20.06	19.98	20.02	21.00	3
		1	12	20.01	19.92	19.92	21.00	3
		1	24	20.03	19.93	19.96	21.00	3
		12	0	18.90	18.91	19.03	20.00	4
		12	6	19.03	18.95	18.92	20.00	4
		12	13	18.95	19.10	19.01	20.00	4
		25	0	19.10	18.94	18.98	20.00	4

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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	23.01	22.95	23.04	24.00	0
		1	7	23.01	22.91	23.08	24.00	0
		1	14	22.92	23.03	23.08	24.00	0
		8	0	21.91	21.91	22.02	23.00	1
		8	4	21.94	21.99	22.09	23.00	1
		8	7	22.09	22.06	22.07	23.00	1
		15	0	21.96	21.93	22.01	23.00	1
3	16-QAM	1	0	21.96	22.04	21.94	23.00	1
		1	7	22.02	22.01	21.92	23.00	1
		1	14	22.02	21.91	21.96	23.00	1
		8	0	20.99	21.06	20.96	22.00	2
		8	4	21.03	20.99	21.00	22.00	2
		8	7	21.05	20.91	21.08	22.00	2
		15	0	20.93	20.95	20.96	22.00	2
3	64-QAM	1	0	20.90	20.94	20.99	22.00	2
		1	7	20.96	21.01	21.03	22.00	2
		1	14	21.10	21.06	21.04	22.00	2
		8	0	20.07	20.04	20.00	21.00	3
		8	4	20.06	19.95	20.00	21.00	3
		8	7	19.92	19.95	20.08	21.00	3
		15	0	20.04	20.01	20.10	21.00	3
3	256-QAM	1	0	20.03	19.99	19.92	21.00	3
		1	7	20.07	20.04	20.01	21.00	3
		1	14	19.92	20.01	19.99	21.00	3
		8	0	19.00	18.93	19.08	20.00	4
		8	4	19.00	18.91	18.99	20.00	4
		8	7	18.95	19.02	18.91	20.00	4
		15	0	19.09	19.04	18.90	20.00	4

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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	22.99	23.07	22.91	24.00	0
		1	2	23.01	23.08	22.96	24.00	0
		1	5	23.01	22.99	23.04	24.00	0
		3	0	23.07	22.96	23.08	24.00	0
		3	2	23.06	22.93	22.96	24.00	0
		3	3	23.09	23.00	22.92	24.00	0
		6	0	22.04	21.96	21.91	23.00	1
1.4	16-QAM	1	0	22.02	21.98	21.92	23.00	1
		1	2	22.05	22.00	22.03	23.00	1
		1	5	22.01	22.04	22.09	23.00	1
		3	0	21.90	22.07	21.91	23.00	1
		3	2	22.05	21.95	22.01	23.00	1
		3	3	21.93	21.95	21.94	23.00	1
		6	0	21.02	21.01	21.01	22.00	2
1.4	64-QAM	1	0	20.94	21.06	21.04	22.00	2
		1	2	21.10	20.91	21.02	22.00	2
		1	5	20.93	20.96	21.01	22.00	2
		3	0	20.92	20.98	20.95	22.00	2
		3	2	21.03	21.02	21.09	22.00	2
		3	3	21.02	21.08	21.02	22.00	2
		6	0	20.09	20.00	20.03	21.00	3
1.4	256-QAM	1	0	19.97	19.98	19.94	21.00	3
		1	2	20.05	19.95	20.06	21.00	3
		1	5	19.90	19.97	19.90	21.00	3
		3	0	19.96	19.93	19.95	21.00	3
		3	2	20.04	19.91	20.00	21.00	3
		3	3	20.03	19.94	20.02	21.00	3
		6	0	19.01	18.93	19.01	20.00	4

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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	782	782		
Channel				23230	23230	23230		
10	QPSK	1	0		22.92		24.00	0
		1	25		23.01		24.00	0
		1	49		22.79		24.00	0
		25	0		21.84		23.00	1
		25	12		21.94		23.00	1
		25	25		21.88		23.00	1
		50	0		21.91		23.00	1
10	16-QAM	1	0		21.94		23.00	1
		1	25		22.08		23.00	1
		1	49		22.08		23.00	1
		25	0		20.97		22.00	2
		25	12		20.97		22.00	2
		25	25		21.02		22.00	2
		50	0		21.03		22.00	2
10	64-QAM	1	0		20.98		22.00	2
		1	25		21.03		22.00	2
		1	49		20.98		22.00	2
		25	0		19.94		21.00	3
		25	12		20.05		21.00	3
		25	25		20.07		21.00	3
		50	0		20.04		21.00	3
10	256-QAM	1	0		20.03		21.00	3
		1	25		19.97		21.00	3
		1	49		20.00		21.00	3
		25	0		19.01		20.00	4
		25	12		19.09		20.00	4
		25	25		19.05		20.00	4
		50	0		19.01		20.00	4

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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	22.97	22.98	22.92	24.00	0
		1	12	22.94	22.99	22.89	24.00	0
		1	24	22.96	22.98	22.92	24.00	0
		12	0	21.94	22.04	22.04	23.00	1
		12	6	21.95	22.01	22.01	23.00	1
		12	13	22.04	22.09	22.09	23.00	1
		25	0	22.00	22.08	22.03	23.00	1
5	16-QAM	1	0	21.96	22.06	22.00	23.00	1
		1	12	21.94	21.95	21.89	23.00	1
		1	24	22.00	22.03	21.97	23.00	1
		12	0	21.04	21.09	21.07	22.00	2
		12	6	20.98	20.98	20.92	22.00	2
		12	13	21.04	21.04	20.98	22.00	2
		25	0	20.88	20.93	20.86	22.00	2
5	64-QAM	1	0	20.96	21.01	20.98	22.00	2
		1	12	21.06	21.06	20.97	22.00	2
		1	24	21.06	21.10	21.07	22.00	2
		12	0	20.04	20.06	20.02	21.00	3
		12	6	19.82	19.90	19.86	21.00	3
		12	13	19.89	19.97	19.87	21.00	3
		25	0	19.97	20.01	19.98	21.00	3
5	256-QAM	1	0	19.96	20.05	19.95	21.00	3
		1	12	19.91	19.95	19.91	21.00	3
		1	24	19.94	20.02	19.99	21.00	3
		12	0	18.96	19.04	19.03	20.00	4
		12	6	19.00	19.07	19.06	20.00	4
		12	13	19.01	19.01	19.01	20.00	4
		25	0	18.88	18.97	18.90	20.00	4

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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	793	793		
Channel				23330	23330	23330		
10	QPSK	1	0		22.93		24.00	0
		1	25		23.02		24.00	0
		1	49		22.86		24.00	0
		25	0		21.81		23.00	1
		25	12		21.92		23.00	1
		25	25		21.87		23.00	1
		50	0		21.91		23.00	1
10	16-QAM	1	0		22.04		23.00	1
		1	25		22.08		23.00	1
		1	49		22.09		23.00	1
		25	0		21.09		22.00	2
		25	12		21.03		22.00	2
		25	25		21.03		22.00	2
		50	0		20.99		22.00	2
10	64-QAM	1	0		20.99		22.00	2
		1	25		20.96		22.00	2
		1	49		21.00		22.00	2
		25	0		19.97		21.00	3
		25	12		20.03		21.00	3
		25	25		19.90		21.00	3
		50	0		19.91		21.00	3
10	256-QAM	1	0		19.93		21.00	3
		1	25		19.99		21.00	3
		1	49		20.00		21.00	3
		25	0		19.02		20.00	4
		25	12		19.00		20.00	4
		25	25		19.10		20.00	4
		50	0		19.02		20.00	4

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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	22.89	22.92	22.91	24.00	0
		1	12	22.96	22.99	22.96	24.00	0
		1	24	22.85	22.92	22.92	24.00	0
		12	0	21.94	22.00	21.91	23.00	1
		12	6	21.87	21.97	21.87	23.00	1
		12	13	22.02	22.04	22.02	23.00	1
		25	0	22.02	22.08	22.00	23.00	1
5	16-QAM	1	0	21.91	21.98	21.88	23.00	1
		1	12	22.00	22.00	21.93	23.00	1
		1	24	21.94	22.00	21.92	23.00	1
		12	0	20.95	21.01	20.94	22.00	2
		12	6	21.05	21.08	20.99	22.00	2
		12	13	20.90	20.97	20.96	22.00	2
		25	0	20.99	20.99	20.98	22.00	2
5	64-QAM	1	0	20.89	20.92	20.82	22.00	2
		1	12	20.82	20.91	20.86	22.00	2
		1	24	20.99	21.08	21.03	22.00	2
		12	0	19.97	20.07	20.06	21.00	3
		12	6	19.93	19.99	19.89	21.00	3
		12	13	19.88	19.92	19.90	21.00	3
		25	0	19.95	20.02	19.97	21.00	3
5	256-QAM	1	0	20.04	20.05	20.01	21.00	3
		1	12	19.92	19.93	19.88	21.00	3
		1	24	19.89	19.99	19.89	21.00	3
		12	0	19.03	19.09	19.05	20.00	4
		12	6	18.93	19.00	18.94	20.00	4
		12	13	18.81	18.91	18.83	20.00	4
		25	0	18.98	19.08	19.03	20.00	4

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LTE Band 17								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				709	710	711		
Channel				23780	23790	23800		
10	QPSK	1	0	23.13	23.09	23.08	24.00	0
		1	25	23.17	23.02	23.01	24.00	0
		1	49	23.12	23.11	23.15	24.00	0
		25	0	22.04	22.01	22.14	23.00	1
		25	12	22.09	22.01	22.12	23.00	1
		25	25	22.03	21.98	22.03	23.00	1
		50	0	22.14	21.98	22.12	23.00	1
10	16-QAM	1	0	22.06	22.00	22.06	23.00	1
		1	25	22.01	21.98	22.02	23.00	1
		1	49	22.10	22.13	22.10	23.00	1
		25	0	21.07	20.97	21.03	22.00	2
		25	12	20.98	21.17	21.16	22.00	2
		25	25	21.14	21.15	21.07	22.00	2
		50	0	21.11	21.04	21.11	22.00	2
10	64-QAM	1	0	21.10	21.01	21.11	22.00	2
		1	25	20.99	21.15	21.09	22.00	2
		1	49	21.06	20.99	21.08	22.00	2
		25	0	20.12	19.97	20.14	21.00	3
		25	12	19.99	20.03	19.98	21.00	3
		25	25	19.98	20.17	20.01	21.00	3
		50	0	20.10	20.17	20.14	21.00	3
10	256-QAM	1	0	19.97	20.12	20.04	21.00	3
		1	25	20.15	20.13	20.07	21.00	3
		1	49	20.05	20.04	20.05	21.00	3
		25	0	19.17	19.04	18.97	20.00	4
		25	12	19.04	19.07	19.07	20.00	4
		25	25	19.03	19.05	19.11	20.00	4
		50	0	19.01	19.14	19.00	20.00	4

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LTE Band 17								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				706.5	710	713.5		
Channel				23755	23790	23825		
5	QPSK	1	0	22.98	23.11	23.10	24.00	0
		1	12	23.13	23.11	23.10	24.00	0
		1	24	23.02	23.03	23.10	24.00	0
		12	0	22.16	22.13	22.03	23.00	1
		12	6	22.14	22.12	21.98	23.00	1
		12	13	22.05	22.07	22.03	23.00	1
		25	0	22.07	22.08	22.02	23.00	1
5	16-QAM	1	0	22.12	22.09	22.17	23.00	1
		1	12	22.15	22.11	22.13	23.00	1
		1	24	22.15	22.02	22.13	23.00	1
		12	0	21.07	21.14	21.10	22.00	2
		12	6	21.14	21.07	21.07	22.00	2
		12	13	21.03	21.09	21.00	22.00	2
		25	0	21.09	21.10	21.09	22.00	2
5	64-QAM	1	0	21.16	21.07	21.12	22.00	2
		1	12	20.98	20.99	21.08	22.00	2
		1	24	21.11	20.98	21.14	22.00	2
		12	0	20.16	20.16	20.16	21.00	3
		12	6	20.15	20.08	20.02	21.00	3
		12	13	20.00	20.10	20.09	21.00	3
		25	0	20.07	19.99	20.02	21.00	3
5	256-QAM	1	0	20.15	20.00	20.01	21.00	3
		1	12	20.15	20.08	20.13	21.00	3
		1	24	20.14	20.15	20.02	21.00	3
		12	0	19.03	19.16	19.11	20.00	4
		12	6	19.10	19.09	19.06	20.00	4
		12	13	19.04	19.04	19.08	20.00	4
		25	0	18.98	19.09	19.11	20.00	4

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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	22.56	22.53	22.63	24.00	0
		1	50	23.10	23.06	22.57	24.00	0
		1	99	23.02	22.99	22.48	24.00	0
		50	0	22.13	22.09	22.14	23.00	1
		50	25	22.09	21.98	22.19	23.00	1
		50	50	22.16	22.11	22.15	23.00	1
		100	0	22.02	22.03	22.24	23.00	1
20	16-QAM	1	0	22.15	22.12	22.05	23.00	1
		1	50	22.15	21.99	22.15	23.00	1
		1	99	22.15	22.01	22.16	23.00	1
		50	0	20.98	21.10	21.13	22.00	2
		50	25	21.00	21.10	21.01	22.00	2
		50	50	21.16	21.03	21.13	22.00	2
		100	0	20.97	21.17	20.98	22.00	2
20	64-QAM	1	0	21.12	21.10	21.04	22.00	2
		1	50	21.12	21.08	21.10	22.00	2
		1	99	21.02	21.05	21.14	22.00	2
		50	0	19.99	20.14	20.11	21.00	3
		50	25	19.98	20.14	20.16	21.00	3
		50	50	20.03	19.99	20.08	21.00	3
		100	0	20.02	20.17	19.99	21.00	3
20	256-QAM	1	0	20.00	20.00	20.15	21.00	3
		1	50	20.04	20.03	20.12	21.00	3
		1	99	20.10	20.05	20.06	21.00	3
		50	0	19.11	19.17	19.10	20.00	4
		50	25	19.17	19.11	19.07	20.00	4
		50	50	18.99	19.03	19.01	20.00	4
		100	0	18.99	19.16	19.15	20.00	4

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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	22.58	22.52	22.58	24.00	0
		1	36	22.58	22.45	22.47	24.00	0
		1	74	22.41	22.45	22.55	24.00	0
		36	0	21.49	21.58	21.50	23.00	1
		36	18	21.54	21.43	21.54	23.00	1
		36	37	21.44	21.48	21.46	23.00	1
		75	0	21.44	21.52	21.42	23.00	1
15	16-QAM	1	0	21.60	21.45	21.47	23.00	1
		1	36	21.48	21.41	21.43	23.00	1
		1	74	21.47	21.58	21.42	23.00	1
		36	0	20.50	20.42	20.58	22.00	2
		36	18	20.42	20.48	20.58	22.00	2
		36	37	20.47	20.55	20.54	22.00	2
		75	0	20.48	20.41	20.56	22.00	2
15	64-QAM	1	0	20.60	20.56	20.41	22.00	2
		1	36	20.55	20.53	20.59	22.00	2
		1	74	20.41	20.45	20.45	22.00	2
		36	0	19.53	19.60	19.45	21.00	3
		36	18	19.53	19.58	19.49	21.00	3
		36	37	19.56	19.53	19.58	21.00	3
		75	0	19.53	19.47	19.55	21.00	3
15	256-QAM	1	0	19.55	19.57	19.44	21.00	3
		1	36	19.42	19.52	19.44	21.00	3
		1	74	19.59	19.45	19.42	21.00	3
		36	0	18.46	18.48	18.45	20.00	4
		36	18	18.47	18.54	18.48	20.00	4
		36	37	18.46	18.51	18.53	20.00	4
		75	0	18.59	18.58	18.57	20.00	4

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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	22.51	22.56	22.45	24.00	0
		1	25	22.55	22.43	22.43	24.00	0
		1	49	22.56	22.46	22.45	24.00	0
		25	0	21.49	21.55	21.43	23.00	1
		25	12	21.50	21.51	21.55	23.00	1
		25	25	21.44	21.40	21.43	23.00	1
		50	0	21.55	21.42	21.40	23.00	1
10	16-QAM	1	0	21.42	21.47	21.45	23.00	1
		1	25	21.51	21.51	21.45	23.00	1
		1	49	21.44	21.51	21.54	23.00	1
		25	0	20.42	20.41	20.42	22.00	2
		25	12	20.41	20.54	20.54	22.00	2
		25	25	20.47	20.56	20.57	22.00	2
		50	0	20.52	20.45	20.52	22.00	2
10	64-QAM	1	0	20.56	20.45	20.55	22.00	2
		1	25	20.54	20.48	20.60	22.00	2
		1	49	20.43	20.57	20.57	22.00	2
		25	0	19.45	19.51	19.60	21.00	3
		25	12	19.56	19.41	19.51	21.00	3
		25	25	19.50	19.41	19.48	21.00	3
		50	0	19.50	19.41	19.42	21.00	3
10	256-QAM	1	0	19.46	19.46	19.58	21.00	3
		1	25	19.42	19.60	19.45	21.00	3
		1	49	19.52	19.51	19.48	21.00	3
		25	0	18.52	18.56	18.59	20.00	4
		25	12	18.54	18.58	18.41	20.00	4
		25	25	18.45	18.41	18.40	20.00	4
		50	0	18.46	18.40	18.41	20.00	4

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LTE Band 25								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1852.5	1882.5	1912.5		
Channel				26065	26365	26665		
5	QPSK	1	0	22.54	22.52	22.51	24.00	0
		1	12	22.51	22.56	22.42	24.00	0
		1	24	22.57	22.47	22.51	24.00	0
		12	0	21.57	21.46	21.40	23.00	1
		12	6	21.41	21.54	21.58	23.00	1
		12	13	21.48	21.58	21.45	23.00	1
		25	0	21.44	21.46	21.42	23.00	1
5	16-QAM	1	0	21.49	21.45	21.56	23.00	1
		1	12	21.53	21.57	21.52	23.00	1
		1	24	21.57	21.59	21.43	23.00	1
		12	0	20.55	20.57	20.55	22.00	2
		12	6	20.44	20.50	20.48	22.00	2
		12	13	20.46	20.45	20.51	22.00	2
		25	0	20.44	20.45	20.56	22.00	2
5	64-QAM	1	0	20.47	20.51	20.49	22.00	2
		1	12	20.55	20.54	20.57	22.00	2
		1	24	20.46	20.48	20.60	22.00	2
		12	0	19.58	19.41	19.41	21.00	3
		12	6	19.42	19.45	19.60	21.00	3
		12	13	19.50	19.41	19.48	21.00	3
		25	0	19.45	19.48	19.59	21.00	3
5	256-QAM	1	0	19.50	19.55	19.49	21.00	3
		1	12	19.58	19.57	19.55	21.00	3
		1	24	19.48	19.48	19.57	21.00	3
		12	0	18.56	18.53	18.49	20.00	4
		12	6	18.57	18.48	18.51	20.00	4
		12	13	18.41	18.56	18.59	20.00	4
		25	0	18.42	18.53	18.43	20.00	4

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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	22.46	22.59	22.56	24.00	0
		1	7	22.42	22.41	22.47	24.00	0
		1	14	22.46	22.42	22.44	24.00	0
		8	0	21.50	21.46	21.47	23.00	1
		8	4	21.41	21.53	21.59	23.00	1
		8	7	21.42	21.41	21.57	23.00	1
		15	0	21.43	21.42	21.47	23.00	1
3	16-QAM	1	0	21.44	21.48	21.48	23.00	1
		1	7	21.60	21.42	21.55	23.00	1
		1	14	21.44	21.40	21.57	23.00	1
		8	0	20.51	20.46	20.41	22.00	2
		8	4	20.48	20.52	20.46	22.00	2
		8	7	20.59	20.56	20.41	22.00	2
		15	0	20.49	20.49	20.59	22.00	2
3	64-QAM	1	0	20.52	20.52	20.49	22.00	2
		1	7	20.51	20.58	20.51	22.00	2
		1	14	20.59	20.57	20.42	22.00	2
		8	0	19.56	19.52	19.43	21.00	3
		8	4	19.47	19.49	19.43	21.00	3
		8	7	19.55	19.47	19.60	21.00	3
		15	0	19.43	19.53	19.43	21.00	3
3	256-QAM	1	0	19.55	19.57	19.56	21.00	3
		1	7	19.60	19.42	19.53	21.00	3
		1	14	19.42	19.44	19.43	21.00	3
		8	0	18.55	18.45	18.55	20.00	4
		8	4	18.51	18.51	18.54	20.00	4
		8	7	18.52	18.40	18.59	20.00	4
		15	0	18.51	18.59	18.58	20.00	4

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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	22.56	22.56	22.42	24.00	0
		1	2	22.52	22.43	22.54	24.00	0
		1	5	22.51	22.44	22.49	24.00	0
		3	0	22.49	22.59	22.55	24.00	0
		3	2	22.48	22.44	22.49	24.00	0
		3	3	22.41	22.52	22.43	24.00	0
		6	0	21.47	21.60	21.53	23.00	1
1.4	16-QAM	1	0	21.45	21.56	21.41	23.00	1
		1	2	21.55	21.53	21.45	23.00	1
		1	5	21.58	21.45	21.53	23.00	1
		3	0	21.57	21.41	21.44	23.00	1
		3	2	21.58	21.40	21.51	23.00	1
		3	3	21.49	21.59	21.55	23.00	1
		6	0	20.48	20.42	20.41	22.00	2
1.4	64-QAM	1	0	20.52	20.56	20.52	22.00	2
		1	2	20.43	20.49	20.41	22.00	2
		1	5	20.58	20.48	20.43	22.00	2
		3	0	20.47	20.51	20.57	22.00	2
		3	2	20.56	20.60	20.49	22.00	2
		3	3	20.47	20.53	20.50	22.00	2
		6	0	19.43	19.44	19.44	21.00	3
1.4	256-QAM	1	0	19.40	19.57	19.60	21.00	3
		1	2	19.55	19.60	19.56	21.00	3
		1	5	19.47	19.55	19.45	21.00	3
		3	0	19.59	19.57	19.59	21.00	3
		3	2	19.52	19.45	19.57	21.00	3
		3	3	19.42	19.54	19.48	21.00	3
		6	0	18.58	18.54	18.55	20.00	4

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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	24.45	24.33	24.31	25.00	0
		1	36	24.39	24.17	24.22	25.00	0
		1	74	24.28	24.21	24.26	25.00	0
		36	0	23.95	23.15	23.13	24.00	1
		36	18	23.99	23.07	23.07	24.00	1
		36	37	23.96	23.06	23.12	24.00	1
		75	0	23.93	23.07	23.14	24.00	1
15	16-QAM	1	0	23.18	23.12	23.25	24.00	1
		1	36	23.10	23.20	23.10	24.00	1
		1	74	23.13	23.07	23.12	24.00	1
		36	0	22.11	22.09	22.11	23.00	2
		36	18	22.18	22.08	22.25	23.00	2
		36	37	22.07	22.14	22.19	23.00	2
		75	0	22.09	22.15	22.19	23.00	2
15	64-QAM	1	0	22.11	22.23	22.23	23.00	2
		1	36	22.07	22.11	22.25	23.00	2
		1	74	22.09	22.24	22.11	23.00	2
		36	0	21.22	21.08	21.23	22.00	3
		36	18	21.25	21.24	21.06	22.00	3
		36	37	21.20	21.15	21.08	22.00	3
		75	0	21.14	21.18	21.15	22.00	3
15	256-QAM	1	0	21.07	21.22	21.13	22.00	3
		1	36	21.21	21.19	21.14	22.00	3
		1	74	21.14	21.10	21.26	22.00	3
		36	0	20.07	20.11	20.10	21.00	4
		36	18	20.09	20.21	20.09	21.00	4
		36	37	20.07	20.22	20.19	21.00	4
		75	0	20.11	20.12	20.17	21.00	4

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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	24.08	24.10	24.07	25.00	0
		1	25	24.18	24.09	24.19	25.00	0
		1	49	24.11	24.14	24.08	25.00	0
		25	0	23.09	23.20	23.10	24.00	1
		25	12	23.08	23.22	23.08	24.00	1
		25	25	23.15	23.26	23.15	24.00	1
		50	0	23.07	23.08	23.22	24.00	1
10	16-QAM	1	0	23.21	23.23	23.19	24.00	1
		1	25	23.11	23.12	23.17	24.00	1
		1	49	23.16	23.11	23.21	24.00	1
		25	0	22.19	22.19	22.16	23.00	2
		25	12	22.24	22.20	22.10	23.00	2
		25	25	22.25	22.08	22.08	23.00	2
		50	0	22.10	22.13	22.24	23.00	2
10	64-QAM	1	0	22.17	22.13	22.10	23.00	2
		1	25	22.24	22.15	22.24	23.00	2
		1	49	22.24	22.12	22.15	23.00	2
		25	0	21.11	21.13	21.11	22.00	3
		25	12	21.24	21.12	21.07	22.00	3
		25	25	21.14	21.12	21.12	22.00	3
		50	0	21.22	21.07	21.09	22.00	3
10	256-QAM	1	0	21.17	21.13	21.25	22.00	3
		1	25	21.15	21.20	21.12	22.00	3
		1	49	21.06	21.20	21.23	22.00	3
		25	0	20.09	20.13	20.16	21.00	4
		25	12	20.17	20.23	20.19	21.00	4
		25	25	20.24	20.20	20.07	21.00	4
		50	0	20.10	20.23	20.19	21.00	4

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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	24.14	24.17	24.16	25.00	0
		1	12	24.06	24.11	24.16	25.00	0
		1	24	24.08	24.13	24.25	25.00	0
		12	0	23.24	23.23	23.22	24.00	1
		12	6	23.22	23.24	23.15	24.00	1
		12	13	23.09	23.23	23.16	24.00	1
		25	0	23.21	23.12	23.22	24.00	1
5	16-QAM	1	0	23.23	23.24	23.20	24.00	1
		1	12	23.12	23.15	23.09	24.00	1
		1	24	23.18	23.16	23.12	24.00	1
		12	0	22.11	22.20	22.12	23.00	2
		12	6	22.25	22.22	22.20	23.00	2
		12	13	22.08	22.23	22.12	23.00	2
		25	0	22.09	22.10	22.08	23.00	2
5	64-QAM	1	0	22.13	22.25	22.22	23.00	2
		1	12	22.23	22.22	22.12	23.00	2
		1	24	22.23	22.20	22.16	23.00	2
		12	0	21.19	21.06	21.19	22.00	3
		12	6	21.22	21.17	21.17	22.00	3
		12	13	21.10	21.25	21.14	22.00	3
		25	0	21.14	21.13	21.21	22.00	3
5	256-QAM	1	0	21.13	21.08	21.24	22.00	3
		1	12	21.23	21.08	21.14	22.00	3
		1	24	21.13	21.10	21.25	22.00	3
		12	0	20.10	20.19	20.18	21.00	4
		12	6	20.09	20.13	20.14	21.00	4
		12	13	20.19	20.22	20.17	21.00	4
		25	0	20.10	20.15	20.08	21.00	4

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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	24.23	24.11	24.11	25.00	0
		1	7	24.10	24.14	24.10	25.00	0
		1	14	24.23	24.23	24.23	25.00	0
		8	0	23.18	23.22	23.18	24.00	1
		8	4	23.11	23.15	23.24	24.00	1
		8	7	23.18	23.26	23.11	24.00	1
		15	0	23.09	23.11	23.07	24.00	1
3	16-QAM	1	0	23.12	23.09	23.20	24.00	1
		1	7	23.13	23.16	23.12	24.00	1
		1	14	23.18	23.09	23.10	24.00	1
		8	0	22.13	22.06	22.13	23.00	2
		8	4	22.22	22.23	22.18	23.00	2
		8	7	22.26	22.22	22.11	23.00	2
		15	0	22.21	22.13	22.22	23.00	2
3	64-QAM	1	0	22.21	22.21	22.22	23.00	2
		1	7	22.25	22.17	22.18	23.00	2
		1	14	22.16	22.13	22.12	23.00	2
		8	0	21.12	21.22	21.23	22.00	3
		8	4	21.23	21.26	21.25	22.00	3
		8	7	21.08	21.17	21.11	22.00	3
		15	0	21.17	21.06	21.16	22.00	3
3	256-QAM	1	0	21.24	21.08	21.22	22.00	3
		1	7	21.08	21.25	21.13	22.00	3
		1	14	21.25	21.09	21.12	22.00	3
		8	0	20.24	20.19	20.08	21.00	4
		8	4	20.21	20.13	20.06	21.00	4
		8	7	20.14	20.11	20.08	21.00	4
		15	0	20.13	20.08	20.11	21.00	4

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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	24.14	24.07	24.21	25.00	0
		1	2	24.13	24.07	24.18	25.00	0
		1	5	24.21	24.16	24.24	25.00	0
		3	0	24.14	24.07	24.14	25.00	0
		3	2	24.16	24.22	24.26	25.00	0
		3	3	24.07	24.26	24.15	25.00	0
		6	0	23.23	23.10	23.07	24.00	1
1.4	16-QAM	1	0	23.14	23.11	23.23	24.00	1
		1	2	23.20	23.22	23.10	24.00	1
		1	5	23.10	23.22	23.11	24.00	1
		3	0	23.18	23.14	23.22	24.00	1
		3	2	23.19	23.24	23.20	24.00	1
		3	3	23.18	23.20	23.09	24.00	1
		6	0	22.08	22.07	22.13	23.00	2
1.4	64-QAM	1	0	22.08	22.21	22.23	23.00	2
		1	2	22.08	22.14	22.20	23.00	2
		1	5	22.10	22.26	22.24	23.00	2
		3	0	22.10	22.21	22.13	23.00	2
		3	2	22.25	22.26	22.08	23.00	2
		3	3	22.10	22.18	22.15	23.00	2
		6	0	21.17	21.20	21.11	22.00	3
1.4	256-QAM	1	0	21.14	21.09	21.25	22.00	3
		1	2	21.09	21.26	21.08	22.00	3
		1	5	21.12	21.12	21.14	22.00	3
		3	0	21.14	21.20	21.23	22.00	3
		3	2	21.07	21.07	21.21	22.00	3
		3	3	21.13	21.09	21.10	22.00	3
		6	0	20.14	20.21	20.21	21.00	4

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LTE Band 30								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2310	2310	2310		
Channel				27710	27710	27710		
10	QPSK	1	0		22.66		24.00	0
		1	25		22.55		24.00	0
		1	49		22.49		24.00	0
		25	0		22.08		23.00	1
		25	12		21.98		23.00	1
		25	25		21.89		23.00	1
		50	0		21.96		23.00	1
10	16-QAM	1	0		21.49		23.00	1
		1	25		21.53		23.00	1
		1	49		21.47		23.00	1
		25	0		20.61		22.00	2
		25	12		20.48		22.00	2
		25	25		20.52		22.00	2
		50	0		20.60		22.00	2
10	64-QAM	1	0		20.51		22.00	2
		1	25		20.48		22.00	2
		1	49		20.64		22.00	2
		25	0		19.51		21.00	3
		25	12		19.63		21.00	3
		25	25		19.50		21.00	3
		50	0		19.58		21.00	3
10	256-QAM	1	0		19.49		21.00	3
		1	25		19.51		21.00	3
		1	49		19.54		21.00	3
		25	0		18.52		20.00	4
		25	12		18.49		20.00	4
		25	25		18.58		20.00	4
		50	0		18.48		20.00	4

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LTE Band 30								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2307.5	2310	2312.5		
Channel				27685	27710	27735		
5	QPSK	1	0	22.45	22.46	22.42	24.00	0
		1	12	22.64	22.64	22.56	24.00	0
		1	24	22.61	22.62	22.54	24.00	0
		12	0	21.41	21.49	21.43	23.00	1
		12	6	21.46	21.46	21.40	23.00	1
		12	13	21.55	21.64	21.59	23.00	1
		25	0	21.51	21.54	21.48	23.00	1
5	16-QAM	1	0	21.49	21.57	21.47	23.00	1
		1	12	21.50	21.50	21.45	23.00	1
		1	24	21.51	21.61	21.51	23.00	1
		12	0	20.55	20.58	20.58	22.00	2
		12	6	20.56	20.61	20.58	22.00	2
		12	13	20.55	20.57	20.55	22.00	2
		25	0	20.53	20.59	20.49	22.00	2
5	64-QAM	1	0	20.54	20.57	20.51	22.00	2
		1	12	20.52	20.53	20.49	22.00	2
		1	24	20.47	20.56	20.56	22.00	2
		12	0	19.40	19.46	19.46	21.00	3
		12	6	19.44	19.51	19.50	21.00	3
		12	13	19.61	19.62	19.61	21.00	3
		25	0	19.45	19.55	19.52	21.00	3
5	256-QAM	1	0	19.44	19.48	19.40	21.00	3
		1	12	19.42	19.49	19.43	21.00	3
		1	24	19.56	19.57	19.48	21.00	3
		12	0	18.47	18.47	18.43	20.00	4
		12	6	18.56	18.60	18.57	20.00	4
		12	13	18.59	18.65	18.59	20.00	4
		25	0	18.54	18.59	18.59	20.00	4

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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	22.98	22.84	23.14	24.00	0
		1	50	22.98	22.95	22.97	24.00	0
		1	99	23.03	23.02	22.82	24.00	0
		50	0	22.09	22.09	22.44	23.00	1
		50	25	21.95	22.00	22.47	23.00	1
		50	50	21.96	22.08	22.49	23.00	1
		100	0	22.03	22.05	22.48	23.00	1
20	16-QAM	1	0	22.00	21.97	22.11	23.00	1
		1	50	21.93	22.03	22.07	23.00	1
		1	99	22.01	22.06	21.97	23.00	1
		50	0	21.06	21.07	21.04	22.00	2
		50	25	21.04	21.08	20.95	22.00	2
		50	50	21.04	21.08	20.97	22.00	2
		100	0	21.11	21.12	21.10	22.00	2
20	64-QAM	1	0	20.97	21.00	21.11	22.00	2
		1	50	21.08	21.11	21.07	22.00	2
		1	99	20.98	21.01	21.06	22.00	2
		50	0	19.96	20.04	20.12	21.00	3
		50	25	20.05	20.03	20.06	21.00	3
		50	50	20.02	19.96	20.05	21.00	3
		100	0	20.03	20.09	20.11	21.00	3
20	256-QAM	1	0	20.10	19.96	19.93	21.00	3
		1	50	20.02	20.11	20.01	21.00	3
		1	99	20.12	20.12	20.06	21.00	3
		50	0	19.01	19.06	19.11	20.00	4
		50	25	19.13	18.94	18.93	20.00	4
		50	50	19.06	18.94	19.11	20.00	4
		100	0	19.01	19.03	19.07	20.00	4

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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	23.12	23.11	23.05	24.00	0
		1	36	23.05	22.93	22.99	24.00	0
		1	74	23.08	23.12	23.10	24.00	0
		36	0	21.94	22.06	21.94	23.00	1
		36	18	22.02	21.94	22.11	23.00	1
		36	37	22.01	21.95	22.12	23.00	1
		75	0	21.95	22.10	22.02	23.00	1
15	16-QAM	1	0	21.98	22.10	22.10	23.00	1
		1	36	22.06	21.95	22.12	23.00	1
		1	74	21.96	22.07	21.97	23.00	1
		36	0	20.97	21.00	20.98	22.00	2
		36	18	20.99	20.98	21.01	22.00	2
		36	37	21.03	21.06	21.08	22.00	2
		75	0	20.99	21.09	21.08	22.00	2
15	64-QAM	1	0	21.04	21.09	21.11	22.00	2
		1	36	20.96	20.97	21.06	22.00	2
		1	74	21.10	20.93	21.12	22.00	2
		36	0	20.10	20.06	20.08	21.00	3
		36	18	20.05	19.95	20.01	21.00	3
		36	37	20.05	19.99	20.10	21.00	3
		75	0	20.08	20.01	20.02	21.00	3
15	256-QAM	1	0	20.05	19.93	19.96	21.00	3
		1	36	19.96	20.04	20.09	21.00	3
		1	74	20.10	19.96	20.06	21.00	3
		36	0	19.00	19.07	18.98	20.00	4
		36	18	19.02	18.95	18.95	20.00	4
		36	37	18.95	19.03	18.94	20.00	4
		75	0	18.96	18.93	18.97	20.00	4

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Frequency (MHz)				1715	1745	1775		
Channel				132022	132322	132622		
10	QPSK	1	0	22.98	23.03	22.97	24.00	0
		1	25	23.06	23.01	23.02	24.00	0
		1	49	23.04	23.10	22.93	24.00	0
		25	0	21.93	22.13	22.09	23.00	1
		25	12	22.03	21.95	22.12	23.00	1
		25	25	22.01	22.01	21.96	23.00	1
		50	0	21.93	21.95	22.06	23.00	1
10	16-QAM	1	0	22.12	21.96	22.03	23.00	1
		1	25	22.13	21.98	22.12	23.00	1
		1	49	22.10	22.03	22.03	23.00	1
		25	0	21.02	21.08	21.04	22.00	2
		25	12	21.01	21.03	21.04	22.00	2
		25	25	21.02	20.94	21.07	22.00	2
		50	0	20.96	21.00	20.99	22.00	2
10	64-QAM	1	0	21.06	21.07	21.05	22.00	2
		1	25	21.00	21.09	20.97	22.00	2
		1	49	20.99	21.03	21.08	22.00	2
		25	0	20.02	19.96	19.99	21.00	3
		25	12	20.00	20.00	20.06	21.00	3
		25	25	19.99	20.09	20.10	21.00	3
		50	0	19.97	19.99	20.13	21.00	3
10	256-QAM	1	0	20.03	20.10	20.12	21.00	3
		1	25	20.05	20.12	20.11	21.00	3
		1	49	20.09	20.13	19.93	21.00	3
		25	0	19.11	18.96	19.12	20.00	4
		25	12	19.02	18.99	19.01	20.00	4
		25	25	18.96	18.94	19.06	20.00	4
		50	0	18.99	19.00	18.97	20.00	4

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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	23.01	22.98	22.97	24.00	0
		1	12	23.11	23.02	23.02	24.00	0
		1	24	23.12	23.12	22.95	24.00	0
		12	0	22.04	22.04	21.96	23.00	1
		12	6	21.99	22.10	22.06	23.00	1
		12	13	22.12	22.07	21.98	23.00	1
		25	0	22.04	22.04	22.10	23.00	1
5	16-QAM	1	0	22.13	22.06	22.03	23.00	1
		1	12	22.11	21.95	21.94	23.00	1
		1	24	22.05	22.08	22.11	23.00	1
		12	0	20.96	21.13	20.94	22.00	2
		12	6	21.10	20.93	20.97	22.00	2
		12	13	20.95	20.97	20.94	22.00	2
		25	0	21.00	21.09	21.05	22.00	2
5	64-QAM	1	0	21.08	21.11	20.93	22.00	2
		1	12	21.08	20.98	21.10	22.00	2
		1	24	21.09	21.12	21.12	22.00	2
		12	0	20.09	20.00	20.05	21.00	3
		12	6	20.04	20.05	19.96	21.00	3
		12	13	20.03	19.96	19.97	21.00	3
		25	0	20.05	19.98	19.95	21.00	3
5	256-QAM	1	0	20.08	19.99	19.96	21.00	3
		1	12	20.03	20.13	20.01	21.00	3
		1	24	19.97	20.07	20.12	21.00	3
		12	0	19.02	19.01	18.94	20.00	4
		12	6	19.07	19.07	19.07	20.00	4
		12	13	18.97	19.00	18.98	20.00	4
		25	0	19.12	19.06	18.94	20.00	4

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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	23.07	23.04	23.11	24.00	0
		1	7	23.08	22.97	22.99	24.00	0
		1	14	22.95	23.08	22.96	24.00	0
		8	0	22.06	22.02	22.07	23.00	1
		8	4	21.98	21.96	22.12	23.00	1
		8	7	22.00	21.93	22.03	23.00	1
		15	0	22.07	21.96	22.03	23.00	1
3	16-QAM	1	0	22.00	22.07	22.03	23.00	1
		1	7	22.00	22.01	22.13	23.00	1
		1	14	21.98	22.09	22.03	23.00	1
		8	0	20.95	20.94	21.00	22.00	2
		8	4	20.95	20.95	20.97	22.00	2
		8	7	20.95	21.00	21.11	22.00	2
		15	0	20.96	21.08	21.00	22.00	2
3	64-QAM	1	0	21.02	20.96	21.03	22.00	2
		1	7	21.07	21.08	20.96	22.00	2
		1	14	20.95	20.97	21.04	22.00	2
		8	0	20.08	20.09	20.00	21.00	3
		8	4	19.98	19.97	20.04	21.00	3
		8	7	20.06	20.10	20.05	21.00	3
		15	0	19.98	20.09	20.02	21.00	3
3	256-QAM	1	0	20.10	19.99	20.05	21.00	3
		1	7	20.13	20.11	20.09	21.00	3
		1	14	19.98	20.03	19.99	21.00	3
		8	0	18.95	18.95	18.95	20.00	4
		8	4	18.98	19.11	19.11	20.00	4
		8	7	19.03	19.03	19.10	20.00	4
		15	0	18.98	18.95	19.00	20.00	4

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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	23.02	23.10	23.00	24.00	0
		1	2	22.99	22.93	23.07	24.00	0
		1	5	23.04	23.09	23.08	24.00	0
		3	0	23.00	22.95	23.09	24.00	0
		3	2	22.95	23.02	23.12	24.00	0
		3	3	23.10	23.03	22.96	24.00	0
		6	0	21.99	22.05	22.06	23.00	1
1.4	16-QAM	1	0	21.96	21.95	22.08	23.00	1
		1	2	21.98	22.02	22.02	23.00	1
		1	5	22.07	22.04	22.11	23.00	1
		3	0	22.10	22.08	21.99	23.00	1
		3	2	21.94	21.98	22.00	23.00	1
		3	3	22.03	22.06	21.96	23.00	1
		6	0	20.99	20.93	21.06	22.00	2
1.4	64-QAM	1	0	21.11	21.00	21.11	22.00	2
		1	2	21.08	21.09	21.05	22.00	2
		1	5	20.98	21.05	21.10	22.00	2
		3	0	21.09	21.00	21.04	22.00	2
		3	2	21.03	21.11	20.93	22.00	2
		3	3	20.97	21.01	20.97	22.00	2
		6	0	19.95	20.12	20.11	21.00	3
1.4	256-QAM	1	0	19.99	20.02	20.08	21.00	3
		1	2	19.96	19.93	19.96	21.00	3
		1	5	19.99	20.00	20.10	21.00	3
		3	0	20.10	19.93	20.10	21.00	3
		3	2	20.07	20.10	20.01	21.00	3
		3	3	20.04	20.00	20.08	21.00	3
		6	0	18.93	19.05	18.95	20.00	4

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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	23.05	23.16	23.19	24.00	0
		1	50	23.01	23.07	23.07	24.00	0
		1	99	23.15	23.16	22.92	24.00	0
		50	0	22.14	22.15	22.26	23.00	1
		50	25	22.09	22.12	22.14	23.00	1
		50	50	22.17	22.01	22.07	23.00	1
		100	0	22.08	22.03	22.16	23.00	1
20	16-QAM	1	0	22.01	22.06	22.06	23.00	1
		1	50	21.99	22.00	22.07	23.00	1
		1	99	22.01	22.04	22.07	23.00	1
		50	0	21.04	20.99	21.13	22.00	2
		50	25	21.04	21.07	21.15	22.00	2
		50	50	21.02	21.13	21.01	22.00	2
		100	0	21.18	21.08	21.09	22.00	2
20	64-QAM	1	0	21.00	21.09	21.13	22.00	2
		1	50	21.11	21.14	21.05	22.00	2
		1	99	20.99	20.98	20.98	22.00	2
		50	0	19.99	19.99	20.15	21.00	3
		50	25	20.11	20.08	20.09	21.00	3
		50	50	20.17	20.10	20.17	21.00	3
		100	0	20.11	20.17	20.10	21.00	3
20	256-QAM	1	0	20.17	20.02	19.98	21.00	3
		1	50	20.07	20.05	20.12	21.00	3
		1	99	20.13	19.99	20.07	21.00	3
		50	0	19.07	19.12	19.15	20.00	4
		50	25	19.15	19.03	19.00	20.00	4
		50	50	19.02	19.09	19.06	20.00	4
		100	0	19.07	19.14	19.10	20.00	4

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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	23.00	23.10	23.04	24.00	0
		1	36	23.12	23.06	23.05	24.00	0
		1	74	23.09	22.99	23.13	24.00	0
		36	0	22.07	22.10	22.16	23.00	1
		36	18	22.03	22.14	22.05	23.00	1
		36	37	22.14	22.08	22.12	23.00	1
		75	0	22.13	22.00	22.01	23.00	1
15	16-QAM	1	0	22.05	22.16	22.00	23.00	1
		1	36	22.16	22.17	22.04	23.00	1
		1	74	22.10	22.15	22.10	23.00	1
		36	0	21.09	21.16	21.02	22.00	2
		36	18	21.12	21.03	21.15	22.00	2
		36	37	21.12	21.16	21.04	22.00	2
		75	0	21.03	21.09	21.01	22.00	2
15	64-QAM	1	0	21.04	21.01	21.05	22.00	2
		1	36	20.99	21.15	21.09	22.00	2
		1	74	21.15	21.09	21.02	22.00	2
		36	0	20.05	20.17	20.02	21.00	3
		36	18	20.04	20.18	20.05	21.00	3
		36	37	20.07	20.10	20.11	21.00	3
		75	0	20.09	20.18	20.12	21.00	3
15	256-QAM	1	0	20.00	20.03	20.08	21.00	3
		1	36	20.01	20.04	20.02	21.00	3
		1	74	20.14	20.16	20.12	21.00	3
		36	0	19.02	19.06	19.00	20.00	4
		36	18	19.04	19.04	19.16	20.00	4
		36	37	19.04	19.10	19.00	20.00	4
		75	0	19.13	19.17	19.14	20.00	4

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Frequency (MHz)				668	680.5	693		
Channel				133172	133297	133422		
10	QPSK	1	0	23.17	22.99	22.99	24.00	0
		1	25	23.12	23.11	23.02	24.00	0
		1	49	23.00	23.03	23.15	24.00	0
		25	0	22.16	22.01	22.11	23.00	1
		25	12	21.98	22.08	22.02	23.00	1
		25	25	22.06	22.03	22.18	23.00	1
		50	0	22.18	22.06	22.03	23.00	1
10	16-QAM	1	0	22.08	22.01	22.02	23.00	1
		1	25	22.10	22.12	22.15	23.00	1
		1	49	22.16	22.07	22.05	23.00	1
		25	0	21.03	21.01	21.05	22.00	2
		25	12	21.09	21.11	21.02	22.00	2
		25	25	21.06	21.06	21.17	22.00	2
		50	0	21.08	21.07	21.08	22.00	2
10	64-QAM	1	0	21.14	20.99	21.07	22.00	2
		1	25	21.05	21.12	21.13	22.00	2
		1	49	21.15	21.17	21.15	22.00	2
		25	0	20.02	20.01	20.04	21.00	3
		25	12	20.02	20.16	20.03	21.00	3
		25	25	20.01	20.17	20.15	21.00	3
		50	0	20.15	20.10	20.02	21.00	3
10	256-QAM	1	0	20.16	20.02	20.04	21.00	3
		1	25	20.02	20.08	20.15	21.00	3
		1	49	20.05	20.08	20.06	21.00	3
		25	0	19.07	19.08	19.02	20.00	4
		25	12	19.17	18.99	19.00	20.00	4
		25	25	19.18	19.10	19.02	20.00	4
		50	0	19.07	19.12	19.09	20.00	4

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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	23.08	23.03	23.09	24.00	0
		1	12	23.07	23.09	22.99	24.00	0
		1	24	22.98	23.15	23.00	24.00	0
		12	0	22.16	22.07	22.16	23.00	1
		12	6	22.06	22.11	22.14	23.00	1
		12	13	21.99	22.16	22.17	23.00	1
		25	0	22.01	22.11	22.03	23.00	1
5	16-QAM	1	0	21.98	22.12	22.18	23.00	1
		1	12	22.05	22.07	22.14	23.00	1
		1	24	22.03	21.98	22.05	23.00	1
		12	0	21.09	21.13	21.01	22.00	2
		12	6	21.07	21.00	21.06	22.00	2
		12	13	21.02	21.14	21.09	22.00	2
		25	0	21.11	21.14	21.02	22.00	2
5	64-QAM	1	0	21.01	21.09	21.07	22.00	2
		1	12	21.18	21.16	21.00	22.00	2
		1	24	21.05	20.99	21.13	22.00	2
		12	0	20.07	20.07	20.13	21.00	3
		12	6	19.99	20.17	20.05	21.00	3
		12	13	20.10	20.03	20.11	21.00	3
		25	0	20.12	20.14	20.13	21.00	3
5	256-QAM	1	0	20.13	20.12	20.05	21.00	3
		1	12	20.04	20.11	20.05	21.00	3
		1	24	20.02	20.11	20.11	21.00	3
		12	0	19.06	19.09	19.13	20.00	4
		12	6	19.00	19.17	19.05	20.00	4
		12	13	19.14	19.11	19.03	20.00	4
		25	0	19.06	19.17	19.08	20.00	4

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ANT8

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	22.49	22.55	22.63	23.00	0
		1	50	22.59	22.47	22.50	23.00	0
		1	99	22.55	22.58	22.53	23.00	0
		50	0	21.42	21.57	21.43	22.00	1
		50	25	21.57	21.42	21.45	22.00	1
		50	50	21.44	21.44	21.45	22.00	1
		100	0	21.48	21.43	21.40	22.00	1
20	16-QAM	1	0	21.59	21.50	21.42	22.00	1
		1	50	21.48	21.49	21.60	22.00	1
		1	99	21.56	21.41	21.55	22.00	1
		50	0	20.55	20.60	20.44	21.00	2
		50	25	20.57	20.56	20.45	21.00	2
		50	50	20.55	20.51	20.58	21.00	2
		100	0	20.56	20.54	20.51	21.00	2
20	64-QAM	1	0	20.47	20.54	20.58	21.00	2
		1	50	20.60	20.44	20.47	21.00	2
		1	99	20.52	20.58	20.45	21.00	2
		50	0	19.46	19.42	19.55	20.00	3
		50	25	19.58	19.54	19.50	20.00	3
		50	50	19.56	19.41	19.43	20.00	3
		100	0	19.54	19.46	19.40	20.00	3
20	256-QAM	1	0	19.47	19.54	19.58	20.00	3
		1	50	19.60	19.57	19.55	20.00	3
		1	99	19.42	19.56	19.54	20.00	3
		50	0	18.50	18.49	18.48	19.00	4
		50	25	18.55	18.47	18.44	19.00	4
		50	50	18.55	18.59	18.45	19.00	4
		100	0	18.48	18.44	18.52	19.00	4

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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	22.45	22.40	22.60	23.00	0
		1	36	22.44	22.46	22.44	23.00	0
		1	74	22.49	22.53	22.50	23.00	0
		36	0	21.49	21.45	21.53	22.00	1
		36	18	21.53	21.52	21.50	22.00	1
		36	37	21.50	21.43	21.56	22.00	1
		75	0	21.54	21.51	21.47	22.00	1
15	16-QAM	1	0	21.42	21.46	21.42	22.00	1
		1	36	21.48	21.45	21.45	22.00	1
		1	74	21.41	21.47	21.52	22.00	1
		36	0	20.46	20.40	20.59	21.00	2
		36	18	20.48	20.51	20.58	21.00	2
		36	37	20.44	20.55	20.51	21.00	2
		75	0	20.50	20.42	20.51	21.00	2
15	64-QAM	1	0	20.52	20.48	20.50	21.00	2
		1	36	20.43	20.48	20.57	21.00	2
		1	74	20.61	20.41	20.58	21.00	2
		36	0	19.46	19.58	19.48	20.00	3
		36	18	19.59	19.56	19.48	20.00	3
		36	37	19.50	19.58	19.42	20.00	3
		75	0	19.49	19.52	19.45	20.00	3
15	256-QAM	1	0	19.43	19.49	19.45	20.00	3
		1	36	19.42	19.59	19.50	20.00	3
		1	74	19.47	19.58	19.45	20.00	3
		36	0	18.44	18.50	18.57	19.00	4
		36	18	18.55	18.45	18.53	19.00	4
		36	37	18.52	18.47	18.43	19.00	4
		75	0	18.54	18.42	18.56	19.00	4

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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	22.56	22.48	22.55	23.00	0
		1	25	22.51	22.59	22.49	23.00	0
		1	49	22.57	22.45	22.40	23.00	0
		25	0	21.56	21.60	21.54	22.00	1
		25	12	21.60	21.57	21.50	22.00	1
		25	25	21.49	21.57	21.40	22.00	1
		50	0	21.46	21.48	21.52	22.00	1
10	16-QAM	1	0	21.47	21.52	21.48	22.00	1
		1	25	21.46	21.48	21.49	22.00	1
		1	49	21.53	21.50	21.50	22.00	1
		25	0	20.46	20.40	20.42	21.00	2
		25	12	20.47	20.44	20.44	21.00	2
		25	25	20.41	20.46	20.41	21.00	2
		50	0	20.61	20.57	20.53	21.00	2
10	64-QAM	1	0	20.41	20.60	20.44	21.00	2
		1	25	20.59	20.54	20.54	21.00	2
		1	49	20.41	20.41	20.47	21.00	2
		25	0	19.54	19.49	19.46	20.00	3
		25	12	19.52	19.58	19.50	20.00	3
		25	25	19.58	19.56	19.57	20.00	3
		50	0	19.44	19.55	19.49	20.00	3
10	256-QAM	1	0	19.53	19.57	19.49	20.00	3
		1	25	19.43	19.51	19.57	20.00	3
		1	49	19.44	19.46	19.51	20.00	3
		25	0	18.58	18.41	18.45	19.00	4
		25	12	18.57	18.57	18.50	19.00	4
		25	25	18.55	18.44	18.48	19.00	4
		50	0	18.59	18.58	18.55	19.00	4

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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	22.51	22.42	22.43	23.00	0
		1	12	22.51	22.54	22.43	23.00	0
		1	24	22.41	22.60	22.43	23.00	0
		12	0	21.43	21.42	21.52	22.00	1
		12	6	21.44	21.47	21.44	22.00	1
		12	13	21.45	21.45	21.50	22.00	1
		25	0	21.53	21.54	21.46	22.00	1
5	16-QAM	1	0	21.44	21.48	21.54	22.00	1
		1	12	21.51	21.54	21.51	22.00	1
		1	24	21.53	21.44	21.58	22.00	1
		12	0	20.49	20.48	20.40	21.00	2
		12	6	20.45	20.46	20.54	21.00	2
		12	13	20.48	20.48	20.45	21.00	2
		25	0	20.60	20.53	20.59	21.00	2
5	64-QAM	1	0	20.46	20.48	20.58	21.00	2
		1	12	20.45	20.54	20.50	21.00	2
		1	24	20.48	20.54	20.48	21.00	2
		12	0	19.51	19.53	19.57	20.00	3
		12	6	19.47	19.41	19.40	20.00	3
		12	13	19.55	19.49	19.57	20.00	3
		25	0	19.51	19.58	19.48	20.00	3
5	256-QAM	1	0	19.59	19.43	19.41	20.00	3
		1	12	19.52	19.48	19.58	20.00	3
		1	24	19.52	19.56	19.42	20.00	3
		12	0	18.46	18.49	18.53	19.00	4
		12	6	18.59	18.41	18.42	19.00	4
		12	13	18.44	18.59	18.55	19.00	4
		25	0	18.61	18.51	18.48	19.00	4

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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	22.52	22.52	22.51	23.00	0
		1	7	22.51	22.41	22.46	23.00	0
		1	14	22.45	22.59	22.60	23.00	0
		8	0	21.42	21.44	21.57	22.00	1
		8	4	21.60	21.49	21.54	22.00	1
		8	7	21.57	21.53	21.49	22.00	1
		15	0	21.53	21.44	21.40	22.00	1
3	16-QAM	1	0	21.54	21.46	21.59	22.00	1
		1	7	21.46	21.59	21.50	22.00	1
		1	14	21.56	21.43	21.60	22.00	1
		8	0	20.61	20.49	20.45	21.00	2
		8	4	20.54	20.49	20.52	21.00	2
		8	7	20.45	20.55	20.42	21.00	2
		15	0	20.47	20.50	20.44	21.00	2
3	64-QAM	1	0	20.57	20.46	20.45	21.00	2
		1	7	20.56	20.58	20.49	21.00	2
		1	14	20.44	20.59	20.55	21.00	2
		8	0	19.52	19.55	19.51	20.00	3
		8	4	19.56	19.49	19.43	20.00	3
		8	7	19.53	19.52	19.50	20.00	3
		15	0	19.50	19.48	19.49	20.00	3
3	256-QAM	1	0	19.49	19.50	19.58	20.00	3
		1	7	19.44	19.50	19.59	20.00	3
		1	14	19.51	19.51	19.49	20.00	3
		8	0	18.52	18.57	18.45	19.00	4
		8	4	18.41	18.46	18.46	19.00	4
		8	7	18.56	18.57	18.47	19.00	4
		15	0	18.57	18.53	18.52	19.00	4

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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	22.49	22.48	22.59	23.00	0
		1	2	22.57	22.58	22.59	23.00	0
		1	5	22.60	22.58	22.58	23.00	0
		3	0	22.45	22.57	22.45	23.00	0
		3	2	22.46	22.50	22.54	23.00	0
		3	3	22.46	22.47	22.50	23.00	0
		6	0	21.58	21.46	21.57	22.00	1
1.4	16-QAM	1	0	21.41	21.49	21.58	22.00	1
		1	2	21.56	21.48	21.52	22.00	1
		1	5	21.53	21.49	21.59	22.00	1
		3	0	21.45	21.44	21.54	22.00	1
		3	2	21.55	21.60	21.41	22.00	1
		3	3	21.57	21.41	21.47	22.00	1
		6	0	20.60	20.49	20.49	21.00	2
1.4	64-QAM	1	0	20.56	20.55	20.48	21.00	2
		1	2	20.45	20.60	20.43	21.00	2
		1	5	20.61	20.54	20.58	21.00	2
		3	0	20.45	20.48	20.41	21.00	2
		3	2	20.56	20.44	20.51	21.00	2
		3	3	20.45	20.53	20.48	21.00	2
		6	0	19.56	19.46	19.43	20.00	3
1.4	256-QAM	1	0	19.59	19.42	19.47	20.00	3
		1	2	19.45	19.60	19.44	20.00	3
		1	5	19.57	19.44	19.54	20.00	3
		3	0	19.42	19.51	19.45	20.00	3
		3	2	19.45	19.59	19.50	20.00	3
		3	3	19.49	19.52	19.59	20.00	3
		6	0	18.57	18.55	18.51	19.00	4

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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	22.79	22.63	22.59	24.00	0
		1	50	22.51	22.49	22.55	24.00	0
		1	99	22.51	22.41	22.42	24.00	0
		50	0	21.49	21.47	21.49	23.00	1
		50	25	21.52	21.42	21.52	23.00	1
		50	50	21.48	21.54	21.52	23.00	1
		100	0	21.50	21.53	21.51	23.00	1
20	16-QAM	1	0	21.54	21.47	21.54	23.00	1
		1	50	21.44	21.52	21.50	23.00	1
		1	99	21.50	21.46	21.60	23.00	1
		50	0	20.51	20.50	20.57	22.00	2
		50	25	20.54	20.54	20.57	22.00	2
		50	50	20.47	20.53	20.44	22.00	2
		100	0	20.60	20.45	20.48	22.00	2
20	64-QAM	1	0	20.43	20.60	20.57	22.00	2
		1	50	20.42	20.52	20.47	22.00	2
		1	99	20.43	20.59	20.47	22.00	2
		50	0	19.41	19.54	19.47	21.00	3
		50	25	19.43	19.54	19.45	21.00	3
		50	50	19.51	19.47	19.53	21.00	3
		100	0	19.52	19.44	19.42	21.00	3
20	256-QAM	1	0	19.43	19.44	19.52	21.00	3
		1	50	19.53	19.58	19.43	21.00	3
		1	99	19.60	19.55	19.43	21.00	3
		50	0	18.44	18.45	18.47	20.00	4
		50	25	18.41	18.43	18.54	20.00	4
		50	50	18.54	18.55	18.56	20.00	4
		100	0	18.52	18.50	18.52	20.00	4

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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	22.42	22.40	22.49	24.00	0
		1	36	22.49	22.43	22.46	24.00	0
		1	74	22.58	22.43	22.54	24.00	0
		36	0	21.54	21.41	21.43	23.00	1
		36	18	21.53	21.56	21.41	23.00	1
		36	37	21.52	21.43	21.50	23.00	1
		75	0	21.57	21.57	21.57	23.00	1
15	16-QAM	1	0	21.44	21.52	21.57	23.00	1
		1	36	21.43	21.55	21.49	23.00	1
		1	74	21.44	21.58	21.45	23.00	1
		36	0	20.48	20.57	20.44	22.00	2
		36	18	20.41	20.58	20.42	22.00	2
		36	37	20.54	20.47	20.57	22.00	2
		75	0	20.48	20.57	20.59	22.00	2
15	64-QAM	1	0	20.55	20.47	20.55	22.00	2
		1	36	20.47	20.59	20.49	22.00	2
		1	74	20.42	20.56	20.58	22.00	2
		36	0	19.47	19.47	19.44	21.00	3
		36	18	19.57	19.46	19.55	21.00	3
		36	37	19.58	19.44	19.56	21.00	3
		75	0	19.52	19.60	19.44	21.00	3
15	256-QAM	1	0	19.52	19.58	19.45	21.00	3
		1	36	19.48	19.54	19.50	21.00	3
		1	74	19.45	19.59	19.46	21.00	3
		36	0	18.59	18.42	18.40	20.00	4
		36	18	18.57	18.41	18.57	20.00	4
		36	37	18.44	18.52	18.47	20.00	4
		75	0	18.55	18.43	18.52	20.00	4

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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	22.57	22.45	22.41	24.00	0
		1	25	22.42	22.49	22.56	24.00	0
		1	49	22.42	22.42	22.49	24.00	0
		25	0	21.60	21.59	21.40	23.00	1
		25	12	21.57	21.42	21.52	23.00	1
		25	25	21.46	21.55	21.57	23.00	1
		50	0	21.55	21.57	21.56	23.00	1
10	16-QAM	1	0	21.50	21.60	21.52	23.00	1
		1	25	21.56	21.43	21.51	23.00	1
		1	49	21.44	21.59	21.50	23.00	1
		25	0	20.56	20.54	20.40	22.00	2
		25	12	20.55	20.40	20.43	22.00	2
		25	25	20.58	20.41	20.51	22.00	2
		50	0	20.51	20.52	20.51	22.00	2
10	64-QAM	1	0	20.56	20.55	20.51	22.00	2
		1	25	20.45	20.53	20.43	22.00	2
		1	49	20.43	20.55	20.45	22.00	2
		25	0	19.58	19.51	19.60	21.00	3
		25	12	19.46	19.41	19.54	21.00	3
		25	25	19.41	19.59	19.58	21.00	3
		50	0	19.58	19.47	19.58	21.00	3
10	256-QAM	1	0	19.54	19.40	19.43	21.00	3
		1	25	19.52	19.52	19.53	21.00	3
		1	49	19.51	19.46	19.42	21.00	3
		25	0	18.49	18.55	18.43	20.00	4
		25	12	18.55	18.50	18.56	20.00	4
		25	25	18.56	18.51	18.42	20.00	4
		50	0	18.56	18.42	18.58	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1712.5	1732.5	1752.5		
Channel				19975	20175	20375		
5	QPSK	1	0	22.45	22.43	22.59	24.00	0
		1	12	22.50	22.57	22.51	24.00	0
		1	24	22.57	22.50	22.45	24.00	0
		12	0	21.55	21.52	21.43	23.00	1
		12	6	21.43	21.60	21.51	23.00	1
		12	13	21.45	21.42	21.53	23.00	1
		25	0	21.46	21.47	21.48	23.00	1
5	16-QAM	1	0	21.59	21.46	21.49	23.00	1
		1	12	21.50	21.52	21.47	23.00	1
		1	24	21.44	21.40	21.58	23.00	1
		12	0	20.55	20.52	20.44	22.00	2
		12	6	20.50	20.57	20.40	22.00	2
		12	13	20.55	20.59	20.43	22.00	2
		25	0	20.57	20.44	20.57	22.00	2
5	64-QAM	1	0	20.44	20.56	20.50	22.00	2
		1	12	20.44	20.52	20.41	22.00	2
		1	24	20.54	20.41	20.43	22.00	2
		12	0	19.45	19.53	19.47	21.00	3
		12	6	19.56	19.53	19.56	21.00	3
		12	13	19.46	19.59	19.54	21.00	3
		25	0	19.45	19.52	19.46	21.00	3
5	256-QAM	1	0	19.48	19.52	19.46	21.00	3
		1	12	19.49	19.44	19.51	21.00	3
		1	24	19.44	19.49	19.47	21.00	3
		12	0	18.43	18.43	18.43	20.00	4
		12	6	18.56	18.57	18.57	20.00	4
		12	13	18.49	18.54	18.53	20.00	4
		25	0	18.60	18.51	18.50	20.00	4

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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	22.51	22.54	22.47	24.00	0
		1	7	22.53	22.48	22.41	24.00	0
		1	14	22.43	22.55	22.43	24.00	0
		8	0	21.43	21.48	21.55	23.00	1
		8	4	21.48	21.41	21.43	23.00	1
		8	7	21.48	21.55	21.46	23.00	1
		15	0	21.45	21.51	21.60	23.00	1
3	16-QAM	1	0	21.56	21.59	21.47	23.00	1
		1	7	21.47	21.52	21.53	23.00	1
		1	14	21.57	21.55	21.50	23.00	1
		8	0	20.56	20.43	20.49	22.00	2
		8	4	20.54	20.52	20.57	22.00	2
		8	7	20.51	20.43	20.45	22.00	2
		15	0	20.42	20.59	20.45	22.00	2
3	64-QAM	1	0	20.42	20.59	20.44	22.00	2
		1	7	20.56	20.47	20.51	22.00	2
		1	14	20.50	20.54	20.47	22.00	2
		8	0	19.49	19.42	19.49	21.00	3
		8	4	19.56	19.44	19.45	21.00	3
		8	7	19.51	19.40	19.44	21.00	3
		15	0	19.45	19.60	19.47	21.00	3
3	256-QAM	1	0	19.49	19.44	19.46	21.00	3
		1	7	19.61	19.50	19.52	21.00	3
		1	14	19.45	19.52	19.57	21.00	3
		8	0	18.42	18.51	18.53	20.00	4
		8	4	18.58	18.59	18.54	20.00	4
		8	7	18.47	18.54	18.58	20.00	4
		15	0	18.41	18.40	18.59	20.00	4

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LTE Band 4								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				1710.7	1732.5	1754.3		
Channel				19957	20175	20393		
1.4	QPSK	1	0	22.60	22.59	22.51	24.00	0
		1	2	22.43	22.48	22.50	24.00	0
		1	5	22.53	22.42	22.44	24.00	0
		3	0	22.60	22.42	22.44	24.00	0
		3	2	22.49	22.53	22.52	24.00	0
		3	3	22.45	22.51	22.49	24.00	0
		6	0	21.55	21.57	21.51	23.00	1
1.4	16-QAM	1	0	21.60	21.46	21.54	23.00	1
		1	2	21.46	21.51	21.60	23.00	1
		1	5	21.47	21.42	21.55	23.00	1
		3	0	21.58	21.45	21.49	23.00	1
		3	2	21.43	21.55	21.57	23.00	1
		3	3	21.42	21.41	21.58	23.00	1
		6	0	20.47	20.43	20.56	22.00	2
1.4	64-QAM	1	0	20.44	20.52	20.60	22.00	2
		1	2	20.42	20.57	20.51	22.00	2
		1	5	20.41	20.43	20.45	22.00	2
		3	0	20.50	20.45	20.47	22.00	2
		3	2	20.48	20.46	20.59	22.00	2
		3	3	20.57	20.41	20.59	22.00	2
		6	0	19.47	19.49	19.56	21.00	3
1.4	256-QAM	1	0	19.54	19.54	19.51	21.00	3
		1	2	19.47	19.59	19.42	21.00	3
		1	5	19.53	19.41	19.45	21.00	3
		3	0	19.59	19.58	19.45	21.00	3
		3	2	19.46	19.45	19.50	21.00	3
		3	3	19.57	19.57	19.51	21.00	3
		6	0	18.43	18.54	18.57	20.00	4

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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	21.85	21.98	21.74	22.00	0
		1	50	21.85	21.91	21.90	22.00	0
		1	99	21.85	21.89	21.77	22.00	0
		50	0	20.83	20.84	20.86	21.00	1
		50	25	20.77	20.87	20.84	21.00	1
		50	50	20.93	20.84	20.86	21.00	1
		100	0	20.78	20.82	20.82	21.00	1
20	16-QAM	1	0	20.81	20.77	20.86	21.00	1
		1	50	20.81	20.76	20.79	21.00	1
		1	99	20.84	20.93	20.81	21.00	1
		50	0	19.85	19.85	19.82	20.00	2
		50	25	19.91	19.87	19.80	20.00	2
		50	50	19.94	19.80	19.85	20.00	2
		100	0	19.77	19.89	19.90	20.00	2
20	64-QAM	1	0	19.97	19.89	19.77	20.00	2
		1	50	19.83	19.77	19.78	20.00	2
		1	99	19.92	19.75	19.88	20.00	2
		50	0	18.93	18.89	18.83	19.00	3
		50	25	18.89	18.81	18.91	19.00	3
		50	50	18.84	18.91	18.92	19.00	3
		100	0	18.82	18.77	18.79	19.00	3
20	256-QAM	1	0	18.82	18.78	18.83	19.00	3
		1	50	18.81	18.95	18.77	19.00	3
		1	99	18.96	18.89	18.84	19.00	3
		50	0	17.83	17.94	17.89	18.00	4
		50	25	17.88	17.84	17.95	18.00	4
		50	50	17.86	17.84	17.95	18.00	4
		100	0	17.85	17.90	17.84	18.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2507.5	2535	2562.5		
Channel				20825	21100	21375		
15	QPSK	1	0	21.95	21.87	21.84	22.00	0
		1	36	21.87	21.80	21.83	22.00	0
		1	74	21.89	21.75	21.88	22.00	0
		36	0	20.80	20.94	20.94	21.00	1
		36	18	20.91	20.83	20.94	21.00	1
		36	37	20.95	20.81	20.81	21.00	1
		75	0	20.95	20.92	20.95	21.00	1
15	16-QAM	1	0	20.82	20.80	20.87	21.00	1
		1	36	20.82	20.88	20.91	21.00	1
		1	74	20.81	20.82	20.93	21.00	1
		36	0	19.77	19.78	19.90	20.00	2
		36	18	19.89	19.87	19.83	20.00	2
		36	37	19.89	19.75	19.85	20.00	2
		75	0	19.85	19.77	19.96	20.00	2
15	64-QAM	1	0	19.84	19.86	19.85	20.00	2
		1	36	19.90	19.92	19.79	20.00	2
		1	74	19.84	19.83	19.86	20.00	2
		36	0	18.83	18.83	18.82	19.00	3
		36	18	18.81	18.82	18.86	19.00	3
		36	37	18.80	18.88	18.88	19.00	3
		75	0	18.93	18.90	18.81	19.00	3
15	256-QAM	1	0	18.88	18.82	18.95	19.00	3
		1	36	18.97	18.84	18.81	19.00	3
		1	74	18.90	18.94	18.88	19.00	3
		36	0	17.89	17.93	17.92	18.00	4
		36	18	17.77	17.85	17.79	18.00	4
		36	37	17.88	17.76	17.78	18.00	4
		75	0	17.95	17.87	17.84	18.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2505	2535	2565		
Channel				20800	21100	21400		
10	QPSK	1	0	21.84	21.90	21.80	22.00	0
		1	25	21.96	21.90	21.87	22.00	0
		1	49	21.97	21.78	21.81	22.00	0
		25	0	20.81	20.92	20.82	21.00	1
		25	12	20.97	20.79	20.92	21.00	1
		25	25	20.88	20.82	20.93	21.00	1
		50	0	20.86	20.82	20.90	21.00	1
10	16-QAM	1	0	20.95	20.85	20.91	21.00	1
		1	25	20.80	20.81	20.96	21.00	1
		1	49	20.90	20.88	20.92	21.00	1
		25	0	19.92	19.86	19.91	20.00	2
		25	12	19.82	19.92	19.96	20.00	2
		25	25	19.90	19.93	19.84	20.00	2
		50	0	19.90	19.89	19.85	20.00	2
10	64-QAM	1	0	19.83	19.93	19.81	20.00	2
		1	25	19.95	19.78	19.80	20.00	2
		1	49	19.78	19.86	19.91	20.00	2
		25	0	18.79	18.87	18.91	19.00	3
		25	12	18.95	18.76	18.91	19.00	3
		25	25	18.90	18.79	18.79	19.00	3
		50	0	18.80	18.83	18.95	19.00	3
10	256-QAM	1	0	18.92	18.93	18.78	19.00	3
		1	25	18.83	18.92	18.79	19.00	3
		1	49	18.80	18.92	18.94	19.00	3
		25	0	17.90	17.78	17.95	18.00	4
		25	12	17.83	17.77	17.94	18.00	4
		25	25	17.94	17.92	17.81	18.00	4
		50	0	17.90	17.83	17.83	18.00	4

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LTE Band 7								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2502.5	2535	2567.5		
Channel				20775	21100	21425		
5	QPSK	1	0	21.81	21.84	21.84	22.00	0
		1	12	21.86	21.82	21.89	22.00	0
		1	24	21.80	21.90	21.81	22.00	0
		12	0	20.85	20.77	20.96	21.00	1
		12	6	20.90	20.88	20.83	21.00	1
		12	13	20.84	20.80	20.93	21.00	1
		25	0	20.81	20.90	20.89	21.00	1
5	16-QAM	1	0	20.89	20.80	20.97	21.00	1
		1	12	20.95	20.87	20.82	21.00	1
		1	24	20.85	20.78	20.90	21.00	1
		12	0	19.95	19.85	19.90	20.00	2
		12	6	19.77	19.84	19.93	20.00	2
		12	13	19.82	19.94	19.88	20.00	2
		25	0	19.93	19.95	19.86	20.00	2
5	64-QAM	1	0	19.84	19.85	19.86	20.00	2
		1	12	19.87	19.94	19.95	20.00	2
		1	24	19.92	19.78	19.92	20.00	2
		12	0	18.90	18.75	18.88	19.00	3
		12	6	18.79	18.81	18.78	19.00	3
		12	13	18.82	18.83	18.94	19.00	3
		25	0	18.81	18.87	18.81	19.00	3
5	256-QAM	1	0	18.95	18.77	18.83	19.00	3
		1	12	18.95	18.81	18.95	19.00	3
		1	24	18.95	18.79	18.88	19.00	3
		12	0	17.88	17.84	17.95	18.00	4
		12	6	17.80	17.83	17.94	18.00	4
		12	13	17.85	17.75	17.92	18.00	4
		25	0	17.92	17.83	17.90	18.00	4

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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	19.45	19.51	19.67	20.00	0
		1	50	19.46	19.57	19.60	20.00	0
		1	99	19.62	19.53	19.59	20.00	0
		50	0	18.54	18.52	18.54	19.00	1
		50	25	18.59	18.55	18.62	19.00	1
		50	50	18.60	18.60	18.65	19.00	1
		100	0	18.62	18.65	18.56	19.00	1
20	16-QAM	1	0	18.53	18.57	18.52	19.00	1
		1	50	18.51	18.51	18.65	19.00	1
		1	99	18.61	18.55	18.61	19.00	1
		50	0	17.62	17.51	17.53	18.00	2
		50	25	17.49	17.50	17.56	18.00	2
		50	50	17.58	17.53	17.54	18.00	2
		100	0	17.50	17.59	17.48	18.00	2
20	64-QAM	1	0	17.57	17.63	17.53	18.00	2
		1	50	17.54	17.52	17.56	18.00	2
		1	99	17.56	17.52	17.52	18.00	2
		50	0	16.63	16.51	16.52	17.00	3
		50	25	16.61	16.54	16.51	17.00	3
		50	50	16.60	16.64	16.55	17.00	3
		100	0	16.63	16.48	16.53	17.00	3
20	256-QAM	1	0	16.49	16.59	16.64	17.00	3
		1	50	16.62	16.54	16.51	17.00	3
		1	99	16.64	16.63	16.54	17.00	3
		50	0	15.53	15.56	15.56	16.00	4
		50	25	15.60	15.49	15.61	16.00	4
		50	50	15.57	15.46	15.55	16.00	4
		100	0	15.51	15.57	15.49	16.00	4

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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	19.65	19.48	19.62	20.00	0
		1	36	19.57	19.46	19.66	20.00	0
		1	74	19.46	19.62	19.66	20.00	0
		36	0	18.63	18.62	18.55	19.00	1
		36	18	18.64	18.62	18.57	19.00	1
		36	37	18.55	18.61	18.64	19.00	1
		75	0	18.50	18.58	18.53	19.00	1
15	16-QAM	1	0	18.61	18.58	18.55	19.00	1
		1	36	18.50	18.53	18.47	19.00	1
		1	74	18.54	18.60	18.57	19.00	1
		36	0	17.65	17.55	17.64	18.00	2
		36	18	17.51	17.62	17.59	18.00	2
		36	37	17.63	17.47	17.55	18.00	2
		75	0	17.54	17.62	17.65	18.00	2
15	64-QAM	1	0	17.50	17.48	17.64	18.00	2
		1	36	17.64	17.47	17.50	18.00	2
		1	74	17.54	17.52	17.53	18.00	2
		36	0	16.51	16.54	16.62	17.00	3
		36	18	16.56	16.56	16.47	17.00	3
		36	37	16.46	16.51	16.65	17.00	3
		75	0	16.58	16.50	16.59	17.00	3
15	256-QAM	1	0	16.61	16.61	16.48	17.00	3
		1	36	16.47	16.60	16.56	17.00	3
		1	74	16.58	16.60	16.63	17.00	3
		36	0	15.47	15.64	15.50	16.00	4
		36	18	15.49	15.66	15.48	16.00	4
		36	37	15.51	15.62	15.58	16.00	4
		75	0	15.59	15.55	15.49	16.00	4

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LTE Band 25								
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Frequency (MHz)				1855	1882.5	1910		
Channel				26090	26365	26640		
10	QPSK	1	0	19.56	19.51	19.46	20.00	0
		1	25	19.58	19.54	19.55	20.00	0
		1	49	19.63	19.66	19.53	20.00	0
		25	0	18.59	18.46	18.60	19.00	1
		25	12	18.59	18.53	18.66	19.00	1
		25	25	18.56	18.51	18.60	19.00	1
		50	0	18.62	18.53	18.65	19.00	1
10	16-QAM	1	0	18.64	18.46	18.55	19.00	1
		1	25	18.63	18.48	18.65	19.00	1
		1	49	18.49	18.61	18.58	19.00	1
		25	0	17.51	17.58	17.47	18.00	2
		25	12	17.66	17.48	17.63	18.00	2
		25	25	17.55	17.48	17.65	18.00	2
		50	0	17.61	17.55	17.55	18.00	2
10	64-QAM	1	0	17.49	17.50	17.51	18.00	2
		1	25	17.65	17.51	17.51	18.00	2
		1	49	17.50	17.46	17.51	18.00	2
		25	0	16.52	16.66	16.49	17.00	3
		25	12	16.60	16.63	16.57	17.00	3
		25	25	16.60	16.47	16.63	17.00	3
		50	0	16.56	16.64	16.51	17.00	3
10	256-QAM	1	0	16.52	16.53	16.47	17.00	3
		1	25	16.56	16.50	16.62	17.00	3
		1	49	16.63	16.62	16.48	17.00	3
		25	0	15.62	15.54	15.49	16.00	4
		25	12	15.56	15.50	15.57	16.00	4
		25	25	15.56	15.59	15.64	16.00	4
		50	0	15.63	15.49	15.65	16.00	4

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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	19.62	19.52	19.61	20.00	0
		1	12	19.57	19.46	19.61	20.00	0
		1	24	19.57	19.61	19.46	20.00	0
		12	0	18.59	18.65	18.60	19.00	1
		12	6	18.49	18.66	18.48	19.00	1
		12	13	18.63	18.62	18.48	19.00	1
		25	0	18.61	18.56	18.47	19.00	1
5	16-QAM	1	0	18.47	18.52	18.56	19.00	1
		1	12	18.48	18.60	18.65	19.00	1
		1	24	18.55	18.60	18.60	19.00	1
		12	0	17.53	17.49	17.53	18.00	2
		12	6	17.51	17.65	17.52	18.00	2
		12	13	17.51	17.57	17.61	18.00	2
		25	0	17.59	17.47	17.47	18.00	2
5	64-QAM	1	0	17.54	17.53	17.54	18.00	2
		1	12	17.61	17.47	17.53	18.00	2
		1	24	17.53	17.59	17.63	18.00	2
		12	0	16.63	16.55	16.59	17.00	3
		12	6	16.59	16.56	16.62	17.00	3
		12	13	16.60	16.62	16.51	17.00	3
		25	0	16.62	16.59	16.59	17.00	3
5	256-QAM	1	0	16.59	16.64	16.47	17.00	3
		1	12	16.66	16.56	16.65	17.00	3
		1	24	16.53	16.61	16.54	17.00	3
		12	0	15.56	15.52	15.56	16.00	4
		12	6	15.49	15.53	15.47	16.00	4
		12	13	15.55	15.59	15.60	16.00	4
		25	0	15.61	15.50	15.55	16.00	4

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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	19.54	19.50	19.64	20.00	0
		1	7	19.61	19.46	19.59	20.00	0
		1	14	19.59	19.49	19.55	20.00	0
		8	0	18.66	18.58	18.51	19.00	1
		8	4	18.65	18.65	18.61	19.00	1
		8	7	18.60	18.65	18.56	19.00	1
		15	0	18.51	18.61	18.64	19.00	1
3	16-QAM	1	0	18.62	18.54	18.55	19.00	1
		1	7	18.56	18.50	18.65	19.00	1
		1	14	18.61	18.60	18.54	19.00	1
		8	0	17.65	17.60	17.59	18.00	2
		8	4	17.55	17.52	17.57	18.00	2
		8	7	17.56	17.53	17.65	18.00	2
		15	0	17.53	17.50	17.48	18.00	2
3	64-QAM	1	0	17.58	17.59	17.48	18.00	2
		1	7	17.48	17.56	17.53	18.00	2
		1	14	17.55	17.51	17.48	18.00	2
		8	0	16.62	16.47	16.59	17.00	3
		8	4	16.49	16.60	16.65	17.00	3
		8	7	16.58	16.52	16.60	17.00	3
		15	0	16.52	16.59	16.49	17.00	3
3	256-QAM	1	0	16.49	16.55	16.62	17.00	3
		1	7	16.53	16.61	16.53	17.00	3
		1	14	16.54	16.51	16.47	17.00	3
		8	0	15.62	15.50	15.55	16.00	4
		8	4	15.57	15.54	15.53	16.00	4
		8	7	15.48	15.58	15.57	16.00	4
		15	0	15.61	15.52	15.60	16.00	4

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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	19.53	19.54	19.52	20.00	0
		1	2	19.54	19.49	19.53	20.00	0
		1	5	19.54	19.65	19.47	20.00	0
		3	0	19.52	19.49	19.62	20.00	0
		3	2	19.53	19.48	19.52	20.00	0
		3	3	19.50	19.51	19.58	20.00	0
		6	0	18.60	18.54	18.53	19.00	1
1.4	16-QAM	1	0	18.58	18.55	18.47	19.00	1
		1	2	18.52	18.50	18.52	19.00	1
		1	5	18.58	18.47	18.49	19.00	1
		3	0	18.64	18.60	18.61	19.00	1
		3	2	18.66	18.56	18.52	19.00	1
		3	3	18.65	18.52	18.62	19.00	1
		6	0	17.49	17.62	17.59	18.00	2
1.4	64-QAM	1	0	17.53	17.64	17.59	18.00	2
		1	2	17.55	17.50	17.64	18.00	2
		1	5	17.48	17.52	17.56	18.00	2
		3	0	17.50	17.51	17.60	18.00	2
		3	2	17.56	17.49	17.56	18.00	2
		3	3	17.58	17.60	17.50	18.00	2
		6	0	16.49	16.46	16.66	17.00	3
1.4	256-QAM	1	0	16.48	16.60	16.57	17.00	3
		1	2	16.58	16.47	16.61	17.00	3
		1	5	16.49	16.49	16.57	17.00	3
		3	0	16.54	16.65	16.50	17.00	3
		3	2	16.53	16.48	16.46	17.00	3
		3	3	16.57	16.57	16.47	17.00	3
		6	0	15.64	15.61	15.52	16.00	4

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LTE Band 30								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2310	2310	2310		
Channel				27710	27710	27710		
10	QPSK	1	0		21.80		22.00	0
		1	25		21.74		22.00	0
		1	49		21.58		22.00	0
		25	0		20.71		21.00	1
		25	12		20.72		21.00	1
		25	25		20.75		21.00	1
		50	0		20.77		21.00	1
10	16-QAM	1	0		20.62		21.00	1
		1	25		20.70		21.00	1
		1	49		20.61		21.00	1
		25	0		19.72		20.00	2
		25	12		19.69		20.00	2
		25	25		19.71		20.00	2
		50	0		19.66		20.00	2
10	64-QAM	1	0		19.65		20.00	2
		1	25		19.67		20.00	2
		1	49		19.68		20.00	2
		25	0		18.64		19.00	3
		25	12		18.61		19.00	3
		25	25		18.77		19.00	3
		50	0		18.61		19.00	3
10	256-QAM	1	0		18.74		19.00	3
		1	25		18.71		19.00	3
		1	49		18.71		19.00	3
		25	0		17.65		18.00	4
		25	12		17.70		18.00	4
		25	25		17.72		18.00	4
		50	0		17.75		18.00	4

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LTE Band 30								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2307.5	2310	2312.5		
Channel				27685	27710	27735		
5	QPSK	1	0	21.73	21.73	21.66	22.00	0
		1	12	21.61	21.67	21.63	22.00	0
		1	24	21.66	21.69	21.64	22.00	0
		12	0	20.55	20.63	20.57	21.00	1
		12	6	20.66	20.75	20.67	21.00	1
		12	13	20.65	20.65	20.60	21.00	1
		25	0	20.55	20.61	20.53	21.00	1
5	16-QAM	1	0	20.74	20.74	20.66	21.00	1
		1	12	20.52	20.61	20.61	21.00	1
		1	24	20.58	20.62	20.57	21.00	1
		12	0	19.59	19.68	19.63	20.00	2
		12	6	19.55	19.61	19.56	20.00	2
		12	13	19.67	19.68	19.60	20.00	2
		25	0	19.51	19.58	19.52	20.00	2
5	64-QAM	1	0	19.54	19.59	19.53	20.00	2
		1	12	19.77	19.78	19.76	20.00	2
		1	24	19.66	19.70	19.69	20.00	2
		12	0	18.50	18.60	18.57	19.00	3
		12	6	18.63	18.71	18.64	19.00	3
		12	13	18.66	18.69	18.62	19.00	3
		25	0	18.62	18.70	18.62	19.00	3
5	256-QAM	1	0	18.70	18.72	18.71	19.00	3
		1	12	18.62	18.62	18.56	19.00	3
		1	24	18.68	18.71	18.63	19.00	3
		12	0	17.68	17.68	17.58	18.00	4
		12	6	17.69	17.73	17.69	18.00	4
		12	13	17.65	17.75	17.75	18.00	4
		25	0	17.59	17.65	17.60	18.00	4

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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	22.82	22.62	22.64	24.00	0
		1	50	22.59	22.59	22.61	24.00	0
		1	99	22.77	22.59	22.73	24.00	0
		50	0	21.72	21.66	21.72	23.00	1
		50	25	21.70	21.74	21.74	23.00	1
		50	50	21.72	21.61	21.72	23.00	1
		100	0	21.76	21.63	21.59	23.00	1
20	16-QAM	1	0	21.71	21.62	21.62	23.00	1
		1	50	21.77	21.59	21.58	23.00	1
		1	99	21.62	21.67	21.73	23.00	1
		50	0	20.62	20.66	20.65	22.00	2
		50	25	20.74	20.74	20.73	22.00	2
		50	50	20.65	20.59	20.63	22.00	2
		100	0	20.70	20.69	20.63	22.00	2
20	64-QAM	1	0	20.74	20.73	20.75	22.00	2
		1	50	20.74	20.61	20.62	22.00	2
		1	99	20.76	20.63	20.62	22.00	2
		50	0	19.68	19.67	19.69	21.00	3
		50	25	19.63	19.62	19.65	21.00	3
		50	50	19.77	19.73	19.74	21.00	3
		100	0	19.75	19.69	19.61	21.00	3
20	256-QAM	1	0	19.67	19.62	19.77	21.00	3
		1	50	19.71	19.59	19.74	21.00	3
		1	99	19.68	19.76	19.69	21.00	3
		50	0	18.58	18.74	18.76	20.00	4
		50	25	18.66	18.58	18.77	20.00	4
		50	50	18.71	18.71	18.76	20.00	4
		100	0	18.59	18.62	18.65	20.00	4

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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	22.66	22.62	22.58	24.00	0
		1	36	22.74	22.64	22.78	24.00	0
		1	74	22.70	22.69	22.76	24.00	0
		36	0	21.78	21.68	21.59	23.00	1
		36	18	21.78	21.75	21.66	23.00	1
		36	37	21.59	21.61	21.67	23.00	1
		75	0	21.70	21.68	21.62	23.00	1
15	16-QAM	1	0	21.76	21.68	21.66	23.00	1
		1	36	21.78	21.71	21.66	23.00	1
		1	74	21.76	21.75	21.77	23.00	1
		36	0	20.65	20.60	20.75	22.00	2
		36	18	20.62	20.73	20.68	22.00	2
		36	37	20.78	20.76	20.75	22.00	2
		75	0	20.78	20.72	20.68	22.00	2
15	64-QAM	1	0	20.60	20.69	20.58	22.00	2
		1	36	20.60	20.72	20.65	22.00	2
		1	74	20.62	20.62	20.65	22.00	2
		36	0	19.59	19.71	19.67	21.00	3
		36	18	19.61	19.68	19.65	21.00	3
		36	37	19.71	19.70	19.61	21.00	3
		75	0	19.75	19.76	19.73	21.00	3
15	256-QAM	1	0	19.73	19.75	19.62	21.00	3
		1	36	19.71	19.60	19.72	21.00	3
		1	74	19.67	19.61	19.62	21.00	3
		36	0	18.64	18.71	18.58	20.00	4
		36	18	18.69	18.69	18.76	20.00	4
		36	37	18.59	18.67	18.78	20.00	4
		75	0	18.65	18.72	18.78	20.00	4

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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	22.77	22.78	22.59	24.00	0
		1	25	22.69	22.65	22.78	24.00	0
		1	49	22.58	22.60	22.62	24.00	0
		25	0	21.58	21.75	21.70	23.00	1
		25	12	21.66	21.72	21.58	23.00	1
		25	25	21.69	21.71	21.66	23.00	1
		50	0	21.64	21.70	21.63	23.00	1
10	16-QAM	1	0	21.59	21.66	21.58	23.00	1
		1	25	21.62	21.73	21.62	23.00	1
		1	49	21.67	21.62	21.63	23.00	1
		25	0	20.59	20.65	20.76	22.00	2
		25	12	20.74	20.75	20.68	22.00	2
		25	25	20.64	20.77	20.62	22.00	2
		50	0	20.74	20.61	20.63	22.00	2
10	64-QAM	1	0	20.59	20.75	20.65	22.00	2
		1	25	20.63	20.69	20.75	22.00	2
		1	49	20.72	20.58	20.71	22.00	2
		25	0	19.67	19.70	19.66	21.00	3
		25	12	19.73	19.70	19.76	21.00	3
		25	25	19.64	19.60	19.63	21.00	3
		50	0	19.65	19.64	19.65	21.00	3
10	256-QAM	1	0	19.74	19.64	19.78	21.00	3
		1	25	19.70	19.66	19.76	21.00	3
		1	49	19.65	19.67	19.66	21.00	3
		25	0	18.60	18.61	18.72	20.00	4
		25	12	18.64	18.67	18.75	20.00	4
		25	25	18.69	18.61	18.72	20.00	4
		50	0	18.69	18.69	18.70	20.00	4

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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	22.61	22.61	22.60	24.00	0
		1	12	22.73	22.64	22.76	24.00	0
		1	24	22.67	22.76	22.69	24.00	0
		12	0	21.77	21.66	21.77	23.00	1
		12	6	21.66	21.71	21.68	23.00	1
		12	13	21.74	21.60	21.67	23.00	1
		25	0	21.63	21.59	21.62	23.00	1
5	16-QAM	1	0	21.71	21.74	21.60	23.00	1
		1	12	21.70	21.70	21.76	23.00	1
		1	24	21.71	21.69	21.64	23.00	1
		12	0	20.76	20.75	20.66	22.00	2
		12	6	20.69	20.59	20.64	22.00	2
		12	13	20.66	20.61	20.77	22.00	2
		25	0	20.78	20.66	20.71	22.00	2
5	64-QAM	1	0	20.60	20.74	20.66	22.00	2
		1	12	20.68	20.75	20.77	22.00	2
		1	24	20.71	20.70	20.66	22.00	2
		12	0	19.68	19.70	19.61	21.00	3
		12	6	19.62	19.73	19.72	21.00	3
		12	13	19.71	19.76	19.66	21.00	3
		25	0	19.72	19.74	19.77	21.00	3
5	256-QAM	1	0	19.77	19.72	19.77	21.00	3
		1	12	19.75	19.58	19.72	21.00	3
		1	24	19.64	19.59	19.68	21.00	3
		12	0	18.62	18.75	18.66	20.00	4
		12	6	18.63	18.62	18.70	20.00	4
		12	13	18.76	18.78	18.66	20.00	4
		25	0	18.68	18.60	18.60	20.00	4

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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	22.65	22.71	22.65	24.00	0
		1	7	22.69	22.76	22.72	24.00	0
		1	14	22.69	22.67	22.63	24.00	0
		8	0	21.66	21.71	21.70	23.00	1
		8	4	21.70	21.64	21.65	23.00	1
		8	7	21.64	21.69	21.65	23.00	1
		15	0	21.60	21.64	21.78	23.00	1
3	16-QAM	1	0	21.69	21.70	21.65	23.00	1
		1	7	21.67	21.72	21.65	23.00	1
		1	14	21.67	21.70	21.63	23.00	1
		8	0	20.75	20.77	20.63	22.00	2
		8	4	20.71	20.72	20.72	22.00	2
		8	7	20.66	20.73	20.75	22.00	2
		15	0	20.65	20.68	20.64	22.00	2
3	64-QAM	1	0	20.74	20.75	20.59	22.00	2
		1	7	20.62	20.58	20.76	22.00	2
		1	14	20.59	20.66	20.65	22.00	2
		8	0	19.71	19.60	19.67	21.00	3
		8	4	19.65	19.72	19.58	21.00	3
		8	7	19.61	19.62	19.76	21.00	3
		15	0	19.69	19.68	19.76	21.00	3
3	256-QAM	1	0	19.65	19.69	19.65	21.00	3
		1	7	19.77	19.67	19.77	21.00	3
		1	14	19.66	19.75	19.68	21.00	3
		8	0	18.67	18.60	18.65	20.00	4
		8	4	18.77	18.59	18.63	20.00	4
		8	7	18.74	18.68	18.58	20.00	4
		15	0	18.75	18.64	18.64	20.00	4

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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	22.76	22.66	22.73	24.00	0
		1	2	22.66	22.59	22.78	24.00	0
		1	5	22.59	22.71	22.73	24.00	0
		3	0	22.74	22.61	22.66	24.00	0
		3	2	22.59	22.74	22.76	24.00	0
		3	3	22.73	22.75	22.76	24.00	0
		6	0	21.69	21.60	21.61	23.00	1
1.4	16-QAM	1	0	21.64	21.76	21.77	23.00	1
		1	2	21.65	21.72	21.74	23.00	1
		1	5	21.75	21.64	21.70	23.00	1
		3	0	21.65	21.59	21.77	23.00	1
		3	2	21.75	21.73	21.71	23.00	1
		3	3	21.77	21.61	21.73	23.00	1
		6	0	20.73	20.63	20.75	22.00	2
1.4	64-QAM	1	0	20.60	20.59	20.73	22.00	2
		1	2	20.66	20.60	20.69	22.00	2
		1	5	20.77	20.64	20.64	22.00	2
		3	0	20.63	20.74	20.69	22.00	2
		3	2	20.72	20.66	20.59	22.00	2
		3	3	20.65	20.62	20.65	22.00	2
		6	0	19.59	19.77	19.62	21.00	3
1.4	256-QAM	1	0	19.67	19.77	19.76	21.00	3
		1	2	19.68	19.61	19.63	21.00	3
		1	5	19.61	19.77	19.68	21.00	3
		3	0	19.74	19.74	19.70	21.00	3
		3	2	19.76	19.78	19.63	21.00	3
		3	3	19.59	19.77	19.60	21.00	3
		6	0	18.73	18.61	18.60	20.00	4

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5.3 TDD LTE

ANT5

LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2580	2595	2610		
Channel				37850	38000	38150		
20	QPSK	1	0	23.02	23.03	23.07	24.00	0
		1	50	23.06	23.11	23.12	24.00	0
		1	99	22.92	23.08	22.91	24.00	0
		50	0	22.07	22.05	22.11	23.00	1
		50	25	21.92	22.11	22.09	23.00	1
		50	50	22.09	22.00	21.99	23.00	1
		100	0	21.98	22.02	22.02	23.00	1
20	16-QAM	1	0	22.07	21.95	22.02	23.00	1
		1	50	21.99	21.91	22.05	23.00	1
		1	99	22.09	22.06	22.05	23.00	1
		50	0	21.07	20.98	21.00	22.00	2
		50	25	20.94	20.99	21.11	22.00	2
		50	50	21.05	20.99	21.08	22.00	2
		100	0	21.01	21.01	21.00	22.00	2
20	64-QAM	1	0	20.93	20.93	21.01	22.00	2
		1	50	20.99	21.10	20.92	22.00	2
		1	99	21.09	21.09	21.08	22.00	2
		50	0	20.04	19.96	19.96	21.00	3
		50	25	20.08	20.10	19.98	21.00	3
		50	50	20.05	20.01	20.06	21.00	3
		100	0	19.93	20.06	19.99	21.00	3
20	256-QAM	1	0	20.00	20.07	20.04	21.00	3
		1	50	20.01	19.98	19.92	21.00	3
		1	99	19.93	19.99	19.94	21.00	3
		50	0	19.08	19.07	18.97	20.00	4
		50	25	19.07	18.95	18.93	20.00	4
		50	50	19.01	18.96	18.93	20.00	4
		100	0	18.96	19.00	18.97	20.00	4

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2577.5	2595	2612.5		
Channel				37825	38000	38175		
15	QPSK	1	0	23.00	22.97	23.06	24.00	0
		1	36	23.01	23.02	23.01	24.00	0
		1	74	23.03	22.93	23.04	24.00	0
		36	0	22.02	21.95	22.03	23.00	1
		36	18	22.02	22.01	22.05	23.00	1
		36	37	21.92	22.01	21.95	23.00	1
		75	0	22.06	22.02	21.99	23.00	1
15	16-QAM	1	0	22.00	21.96	22.04	23.00	1
		1	36	22.04	22.02	21.97	23.00	1
		1	74	22.08	22.01	21.98	23.00	1
		36	0	21.01	20.92	21.11	22.00	2
		36	18	20.91	20.94	20.99	22.00	2
		36	37	20.96	20.96	21.09	22.00	2
		75	0	21.09	21.10	20.91	22.00	2
15	64-QAM	1	0	21.11	20.91	21.04	22.00	2
		1	36	20.97	21.03	21.00	22.00	2
		1	74	21.08	21.07	20.97	22.00	2
		36	0	20.02	19.96	19.93	21.00	3
		36	18	20.03	20.02	20.07	21.00	3
		36	37	19.91	20.06	20.06	21.00	3
		75	0	19.91	19.91	19.95	21.00	3
15	256-QAM	1	0	20.09	20.10	20.07	21.00	3
		1	36	20.07	19.93	19.91	21.00	3
		1	74	19.96	19.93	20.02	21.00	3
		36	0	18.93	19.00	18.98	20.00	4
		36	18	19.05	18.93	18.99	20.00	4
		36	37	19.06	18.95	18.97	20.00	4
		75	0	19.10	19.05	19.09	20.00	4

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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)				2575	2595	2615		
Channel				37800	38000	38200		
10	QPSK	1	0	23.10	23.02	22.97	24.00	0
		1	25	23.09	22.97	23.10	24.00	0
		1	49	23.04	23.07	22.95	24.00	0
		25	0	22.01	22.10	21.96	23.00	1
		25	12	22.03	21.92	22.00	23.00	1
		25	25	22.00	22.01	22.01	23.00	1
		50	0	21.95	22.00	22.09	23.00	1
10	16-QAM	1	0	22.01	22.07	21.95	23.00	1
		1	25	22.05	21.98	21.99	23.00	1
		1	49	21.98	21.97	21.93	23.00	1
		25	0	21.06	20.99	21.07	22.00	2
		25	12	20.95	20.98	20.99	22.00	2
		25	25	21.03	21.08	20.95	22.00	2
		50	0	21.09	21.02	21.07	22.00	2
10	64-QAM	1	0	20.96	21.03	20.96	22.00	2
		1	25	20.96	20.94	20.98	22.00	2
		1	49	20.93	20.96	21.03	22.00	2
		25	0	20.01	19.93	20.03	21.00	3
		25	12	20.06	20.06	20.07	21.00	3
		25	25	20.05	20.07	20.00	21.00	3
		50	0	20.06	20.03	19.92	21.00	3
10	256-QAM	1	0	20.02	20.09	20.05	21.00	3
		1	25	20.03	19.98	19.94	21.00	3
		1	49	19.96	19.93	20.08	21.00	3
		25	0	19.07	19.10	19.07	20.00	4
		25	12	18.98	18.91	18.93	20.00	4
		25	25	19.10	18.94	18.97	20.00	4
		50	0	18.93	18.95	19.01	20.00	4

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LTE Band 38								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2572.5	2595	2617.5		
Channel				37775	38000	38225		
5	QPSK	1	0	23.05	22.98	22.97	24.00	0
		1	12	22.96	22.99	23.02	24.00	0
		1	24	23.02	22.98	22.99	24.00	0
		12	0	22.01	22.07	21.91	23.00	1
		12	6	22.07	22.09	21.93	23.00	1
		12	13	22.06	22.02	22.02	23.00	1
		25	0	22.04	22.04	21.92	23.00	1
5	16-QAM	1	0	22.02	21.93	22.01	23.00	1
		1	12	22.06	22.00	21.93	23.00	1
		1	24	21.98	22.03	22.08	23.00	1
		12	0	20.94	21.06	21.10	22.00	2
		12	6	21.06	21.03	20.95	22.00	2
		12	13	20.97	20.96	21.04	22.00	2
		25	0	21.09	20.99	21.05	22.00	2
5	64-QAM	1	0	21.10	20.96	20.99	22.00	2
		1	12	20.95	21.10	20.91	22.00	2
		1	24	21.03	20.97	21.02	22.00	2
		12	0	20.09	20.06	19.96	21.00	3
		12	6	20.05	19.96	20.04	21.00	3
		12	13	20.08	19.93	20.01	21.00	3
		25	0	19.91	20.01	19.92	21.00	3
5	256-QAM	1	0	20.07	20.08	19.93	21.00	3
		1	12	20.02	20.05	20.01	21.00	3
		1	24	20.03	20.11	19.93	21.00	3
		12	0	19.09	18.96	19.02	20.00	4
		12	6	19.09	18.96	19.06	20.00	4
		12	13	19.01	19.04	18.93	20.00	4
		25	0	18.99	19.06	18.97	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
Channel				39750	40185	40620	41055	41490		
20	QPSK	1	0	22.71	23.05	23.12	23.19	23.14	24.00	0
		1	50	23.14	23.18	22.98	23.14	23.08	24.00	0
		1	99	23.01	23.04	23.05	22.87	23.13	24.00	0
		50	0	22.05	21.99	22.15	22.23	22.18	23.00	1
		50	25	22.07	22.11	22.02	22.02	22.15	23.00	1
		50	50	22.05	21.99	22.02	22.02	22.15	23.00	1
		100	0	22.03	22.13	22.06	22.11	22.13	23.00	1
20	16-QAM	1	0	22.01	22.10	22.06	22.12	22.14	23.00	1
		1	50	22.13	22.12	22.03	22.06	22.14	23.00	1
		1	99	22.00	22.04	22.08	22.06	22.12	23.00	1
		50	0	21.04	21.11	21.00	21.02	21.08	22.00	2
		50	25	21.01	21.05	21.02	21.12	21.08	22.00	2
		50	50	21.11	21.03	21.12	20.99	21.13	22.00	2
		100	0	21.04	21.08	21.10	21.08	21.02	22.00	2
20	64-QAM	1	0	21.13	21.04	21.12	21.03	21.18	22.00	2
		1	50	20.99	21.08	21.12	21.02	21.14	22.00	2
		1	99	21.02	21.01	20.99	20.99	21.13	22.00	2
		50	0	19.99	20.11	20.15	20.16	20.10	21.00	3
		50	25	19.98	20.14	20.11	20.14	20.14	21.00	3
		50	50	20.04	20.07	20.00	20.06	20.13	21.00	3
		100	0	20.02	20.10	20.00	20.05	20.02	21.00	3
20	256-QAM	1	0	20.13	20.16	20.02	20.05	20.05	21.00	3
		1	50	20.08	20.14	20.01	20.11	20.13	21.00	3
		1	99	20.17	20.14	20.00	20.09	20.02	21.00	3
		50	0	19.02	18.99	19.15	19.09	19.18	20.00	4
		50	25	19.12	19.14	19.04	19.02	19.03	20.00	4
		50	50	19.13	19.10	19.00	19.08	19.01	20.00	4
		100	0	19.14	19.03	18.98	19.06	19.15	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	23.00	23.02	23.05	23.10	23.08	24.00	0
		1	36	23.03	23.01	23.03	23.02	23.06	24.00	0
		1	74	23.11	23.11	23.05	23.13	23.02	24.00	0
		36	0	22.17	22.03	22.11	22.08	22.09	23.00	1
		36	18	22.07	22.10	22.05	22.17	22.11	23.00	1
		36	37	22.08	22.07	22.05	22.04	22.09	23.00	1
		75	0	22.00	22.13	22.03	22.13	21.99	23.00	1
15	16-QAM	1	0	21.98	21.98	22.03	22.11	22.13	23.00	1
		1	36	22.10	22.12	22.05	22.03	22.09	23.00	1
		1	74	22.12	22.17	22.06	22.02	22.14	23.00	1
		36	0	21.07	21.10	21.10	21.18	21.13	22.00	2
		36	18	21.14	21.09	21.02	21.07	21.10	22.00	2
		36	37	21.06	21.15	21.03	21.01	21.15	22.00	2
		75	0	21.17	21.07	21.14	20.98	20.98	22.00	2
15	64-QAM	1	0	20.98	21.09	21.16	21.10	21.15	22.00	2
		1	36	21.09	21.02	21.11	21.18	21.15	22.00	2
		1	74	21.04	20.99	21.06	21.03	21.12	22.00	2
		36	0	20.13	20.01	19.98	20.08	20.01	21.00	3
		36	18	20.08	20.08	20.10	20.15	20.15	21.00	3
		36	37	20.04	20.11	20.03	20.15	20.11	21.00	3
		75	0	20.09	20.08	20.12	20.11	19.99	21.00	3
15	256-QAM	1	0	20.12	20.02	20.05	20.06	20.02	21.00	3
		1	36	20.18	20.08	20.05	20.03	20.10	21.00	3
		1	74	19.98	20.01	20.11	20.05	20.07	21.00	3
		36	0	19.03	18.99	19.16	18.99	19.15	20.00	4
		36	18	19.04	19.14	19.10	19.10	19.06	20.00	4
		36	37	19.15	19.09	18.99	19.11	19.01	20.00	4
		75	0	19.05	19.06	19.06	19.02	19.06	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
Channel				39700	40160	40620	41080	41540		
10	QPSK	1	0	23.00	23.00	23.07	23.07	23.15	24.00	0
		1	25	23.14	23.04	23.07	23.06	23.18	24.00	0
		1	49	23.17	23.07	23.05	23.09	23.06	24.00	0
		25	0	22.15	22.15	22.06	22.04	22.09	23.00	1
		25	12	22.02	22.03	22.15	22.17	22.14	23.00	1
		25	25	21.98	22.16	21.99	22.16	22.00	23.00	1
10	16-QAM	50	0	22.11	22.03	22.03	22.12	21.99	23.00	1
		1	0	22.15	22.01	22.02	22.04	22.10	23.00	1
		1	25	22.02	22.10	22.00	22.13	22.13	23.00	1
		1	49	22.09	22.16	22.07	22.17	21.99	23.00	1
		25	0	21.15	21.00	21.09	21.00	20.99	22.00	2
		25	12	21.12	21.02	21.00	21.16	21.10	22.00	2
10	64-QAM	25	25	21.04	21.09	21.10	21.04	20.98	22.00	2
		50	0	21.16	21.00	21.15	21.01	21.15	22.00	2
		1	0	21.15	21.18	21.17	21.02	21.15	22.00	2
		1	25	21.03	21.03	21.04	21.04	21.06	22.00	2
		1	49	21.17	21.01	21.08	21.09	21.04	22.00	2
		25	0	19.98	20.00	20.18	20.13	20.16	21.00	3
10	256-QAM	25	12	20.16	20.05	19.98	20.16	20.00	21.00	3
		25	25	20.12	20.14	20.15	20.05	20.13	21.00	3
		50	0	20.05	20.02	20.10	20.16	20.09	21.00	3
		1	0	20.17	20.17	20.14	20.04	20.04	21.00	3
		1	25	20.00	19.99	20.01	20.08	20.04	21.00	3
		1	49	20.03	20.16	20.07	20.13	20.09	21.00	3
10		25	0	19.16	19.03	19.10	19.14	19.05	20.00	4
		25	12	18.99	19.15	19.18	19.12	19.05	20.00	4
		25	25	19.02	19.17	19.08	19.01	19.16	20.00	4
		50	0	19.08	18.98	19.13	19.16	19.06	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	23.00	23.13	23.14	23.09	23.17	24.00	0
		1	12	22.99	23.17	23.16	23.10	23.12	24.00	0
		1	24	23.18	23.05	23.12	23.10	23.01	24.00	0
		12	0	22.04	22.08	22.12	22.13	22.06	23.00	1
		12	6	22.03	21.99	22.06	22.06	21.98	23.00	1
		12	13	22.15	22.01	22.15	22.12	21.99	23.00	1
		25	0	21.98	21.99	22.10	22.01	22.06	23.00	1
5	16-QAM	1	0	22.06	22.16	21.99	21.99	22.02	23.00	1
		1	12	22.09	22.03	22.09	22.11	22.09	23.00	1
		1	24	22.09	22.08	21.99	22.12	22.04	23.00	1
		12	0	21.09	21.00	21.14	20.99	21.16	22.00	2
		12	6	21.07	21.08	21.07	21.00	21.03	22.00	2
		12	13	21.11	21.17	21.13	21.02	21.05	22.00	2
		25	0	21.10	21.07	20.96	21.12	21.12	22.00	2
5	64-QAM	1	0	21.13	21.05	21.15	21.15	20.99	22.00	2
		1	12	21.10	21.14	21.15	21.06	21.14	22.00	2
		1	24	21.03	21.06	21.12	21.17	21.05	22.00	2
		12	0	20.01	20.16	20.16	20.17	20.01	21.00	3
		12	6	20.00	20.10	20.13	20.16	20.12	21.00	3
		12	13	20.10	20.00	20.16	20.08	20.05	21.00	3
		25	0	20.07	20.17	20.08	20.11	20.04	21.00	3
5	256-QAM	1	0	20.05	20.15	20.03	20.18	20.00	21.00	3
		1	12	20.16	20.13	20.09	20.05	20.16	21.00	3
		1	24	20.09	20.13	20.10	20.10	20.09	21.00	3
		12	0	19.05	18.99	19.15	19.17	19.14	20.00	4
		12	6	19.13	19.13	19.04	19.09	19.11	20.00	4
		12	13	18.99	18.99	19.12	19.05	19.06	20.00	4
		25	0	19.00	19.14	19.03	19.09	19.10	20.00	4

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LTE Band 41_HPUE										
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	25.75	25.81	25.73	25.88	25.78	27.00	0
		1	50	25.71	25.68	25.77	25.79	25.69	27.00	0
		1	99	25.68	25.82	25.83	25.83	25.81	27.00	0
		50	0	24.82	24.69	24.70	25.22	24.83	26.00	1
		50	25	24.72	24.78	24.80	25.21	24.80	26.00	1
		50	50	24.77	24.81	24.69	25.09	24.73	26.00	1
		100	0	24.86	24.70	24.73	25.14	24.82	26.00	1
20	16-QAM	1	0	24.86	24.85	24.75	24.86	24.85	26.00	1
		1	50	24.78	24.67	24.80	24.69	24.78	26.00	1
		1	99	24.68	24.78	24.76	24.76	24.87	26.00	1
		50	0	23.67	23.69	23.80	23.74	23.71	25.00	2
		50	25	23.83	23.81	23.74	23.73	23.83	25.00	2
		50	50	23.78	23.74	23.82	23.81	23.71	25.00	2
		100	0	23.69	23.81	23.85	23.69	23.68	25.00	2
20	64-QAM	1	0	23.80	23.76	23.74	23.72	23.75	25.00	2
		1	50	23.71	23.76	23.85	23.82	23.82	25.00	2
		1	99	23.72	23.68	23.70	23.87	23.79	25.00	2
		50	0	22.85	22.68	22.87	22.86	22.73	24.00	3
		50	25	22.78	22.82	22.81	22.84	22.87	24.00	3
		50	50	22.86	22.86	22.70	22.76	22.78	24.00	3
		100	0	22.76	22.72	22.71	22.85	22.76	24.00	3
20	256-QAM	1	0	22.75	22.82	22.67	22.81	22.85	24.00	3
		1	50	22.70	22.74	22.76	22.86	22.77	24.00	3
		1	99	22.75	22.71	22.71	22.80	22.80	24.00	3
		50	0	21.67	21.71	21.75	21.69	21.81	23.00	4
		50	25	21.84	21.69	21.79	21.68	21.72	23.00	4
		50	50	21.78	21.82	21.72	21.75	21.78	23.00	4
		100	0	21.85	21.86	21.73	21.71	21.72	23.00	4

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LTE Band 41_HPUE										
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	25.83	25.73	25.76	25.81	25.79	27.00	0
		1	36	25.84	25.72	25.71	25.78	25.80	27.00	0
		1	74	25.71	25.83	25.69	25.78	25.82	27.00	0
		36	0	24.73	24.80	24.76	24.78	24.82	26.00	1
		36	18	24.79	24.83	24.78	24.77	24.83	26.00	1
		36	37	24.82	24.84	24.69	24.84	24.87	26.00	1
		75	0	24.72	24.67	24.71	24.71	24.70	26.00	1
15	16-QAM	1	0	24.75	24.84	24.85	24.84	24.83	26.00	1
		1	36	24.83	24.78	24.86	24.74	24.79	26.00	1
		1	74	24.79	24.70	24.72	24.69	24.87	26.00	1
		36	0	23.81	23.74	23.69	23.73	23.69	25.00	2
		36	18	23.68	23.72	23.82	23.83	23.76	25.00	2
		36	37	23.80	23.73	23.86	23.78	23.75	25.00	2
		75	0	23.78	23.70	23.81	23.73	23.81	25.00	2
15	64-QAM	1	0	23.72	23.87	23.68	23.71	23.84	25.00	2
		1	36	23.73	23.75	23.77	23.85	23.76	25.00	2
		1	74	23.74	23.82	23.69	23.73	23.76	25.00	2
		36	0	22.77	22.80	22.68	22.84	22.86	24.00	3
		36	18	22.86	22.68	22.68	22.71	22.82	24.00	3
		36	37	22.77	22.73	22.83	22.75	22.72	24.00	3
		75	0	22.71	22.83	22.68	22.70	22.87	24.00	3
15	256-QAM	1	0	22.73	22.80	22.68	22.76	22.82	24.00	3
		1	36	22.81	22.72	22.74	22.73	22.78	24.00	3
		1	74	22.80	22.72	22.81	22.70	22.80	24.00	3
		36	0	21.73	21.81	21.76	21.76	21.70	23.00	4
		36	18	21.74	21.81	21.70	21.76	21.83	23.00	4
		36	37	21.72	21.82	21.67	21.84	21.74	23.00	4
		75	0	21.85	21.75	21.85	21.83	21.73	23.00	4

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LTE Band 41_HPUE										
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	25.75	25.83	25.77	25.69	25.77	27.00	0
		1	25	25.74	25.69	25.86	25.85	25.85	27.00	0
		1	49	25.72	25.81	25.75	25.75	25.71	27.00	0
		25	0	24.67	24.75	24.86	24.77	24.82	26.00	1
		25	12	24.80	24.72	24.80	24.87	24.76	26.00	1
		25	25	24.77	24.87	24.69	24.75	24.85	26.00	1
		50	0	24.72	24.69	24.83	24.73	24.73	26.00	1
10	16-QAM	1	0	24.80	24.69	24.73	24.78	24.71	26.00	1
		1	25	24.85	24.85	24.74	24.71	24.79	26.00	1
		1	49	24.76	24.76	24.82	24.80	24.82	26.00	1
		25	0	23.72	23.78	23.87	23.69	23.82	25.00	2
		25	12	23.74	23.69	23.79	23.73	23.69	25.00	2
		25	25	23.72	23.77	23.72	23.85	23.83	25.00	2
		50	0	23.84	23.76	23.67	23.74	23.85	25.00	2
10	64-QAM	1	0	23.71	23.75	23.82	23.83	23.85	25.00	2
		1	25	23.81	23.77	23.74	23.70	23.79	25.00	2
		1	49	23.71	23.71	23.72	23.71	23.85	25.00	2
		25	0	22.77	22.86	22.79	22.71	22.75	24.00	3
		25	12	22.73	22.77	22.67	22.82	22.83	24.00	3
		25	25	22.81	22.83	22.79	22.73	22.70	24.00	3
		50	0	22.85	22.71	22.86	22.74	22.70	24.00	3
10	256-QAM	1	0	22.86	22.79	22.70	22.88	22.85	24.00	3
		1	25	22.87	22.73	22.86	22.79	22.75	24.00	3
		1	49	22.75	22.69	22.82	22.68	22.78	24.00	3
		25	0	21.69	21.73	21.69	21.71	21.84	23.00	4
		25	12	21.81	21.78	21.75	21.72	21.88	23.00	4
		25	25	21.84	21.70	21.72	21.72	21.76	23.00	4
		50	0	21.75	21.72	21.87	21.86	21.86	23.00	4

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LTE Band 41_HPUE										
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	25.83	25.78	25.75	25.69	25.87	27.00	0
		1	12	25.85	25.73	25.84	25.71	25.83	27.00	0
		1	24	25.76	25.71	25.70	25.84	25.82	27.00	0
		12	0	24.75	24.86	24.74	24.77	24.87	26.00	1
		12	6	24.85	24.86	24.69	24.86	24.86	26.00	1
		12	13	24.81	24.74	24.76	24.85	24.80	26.00	1
		25	0	24.79	24.87	24.86	24.73	24.70	26.00	1
5	16-QAM	1	0	24.83	24.75	24.73	24.71	24.72	26.00	1
		1	12	24.83	24.86	24.68	24.68	24.83	26.00	1
		1	24	24.77	24.74	24.86	24.70	24.88	26.00	1
		12	0	23.84	23.75	23.73	23.80	23.76	25.00	2
		12	6	23.83	23.80	23.82	23.82	23.87	25.00	2
		12	13	23.81	23.81	23.69	23.78	23.75	25.00	2
		25	0	23.69	23.78	23.67	23.79	23.74	25.00	2
5	64-QAM	1	0	23.86	23.84	23.77	23.70	23.77	25.00	2
		1	12	23.86	23.82	23.70	23.71	23.69	25.00	2
		1	24	23.78	23.74	23.83	23.86	23.69	25.00	2
		12	0	22.86	22.69	22.77	22.70	22.69	24.00	3
		12	6	22.72	22.74	22.81	22.73	22.87	24.00	3
		12	13	22.78	22.83	22.75	22.85	22.74	24.00	3
		25	0	22.73	22.85	22.85	22.72	22.85	24.00	3
5	256-QAM	1	0	22.69	22.75	22.78	22.68	22.83	24.00	3
		1	12	22.69	22.83	22.71	22.72	22.75	24.00	3
		1	24	22.81	22.68	22.81	22.81	22.88	24.00	3
		12	0	21.77	21.86	21.71	21.79	21.69	23.00	4
		12	6	21.77	21.74	21.82	21.86	21.83	23.00	4
		12	13	21.76	21.74	21.85	21.74	21.69	23.00	4
		25	0	21.78	21.82	21.80	21.86	21.75	23.00	4

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ANT8

LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506	2549.5	2593	2636.5	2680		
Channel				39750	40185	40620	41055	41490		
20	QPSK	1	0	23.39	23.64	23.76	23.88	23.77	24.00	0
		1	50	23.64	23.59	23.60	23.63	23.72	24.00	0
		1	99	23.73	23.64	23.76	23.62	23.63	24.00	0
		50	0	22.73	22.62	22.62	22.71	22.61	23.00	1
		50	25	22.67	22.78	22.64	22.60	22.63	23.00	1
		50	50	22.61	22.78	22.68	22.62	22.67	23.00	1
		100	0	22.71	22.67	22.67	22.74	22.69	23.00	1
20	16-QAM	1	0	22.63	22.65	22.66	22.79	22.62	23.00	1
		1	50	22.63	22.74	22.67	22.67	22.66	23.00	1
		1	99	22.73	22.60	22.69	22.64	22.68	23.00	1
		50	0	21.65	21.75	21.77	21.64	21.67	22.00	2
		50	25	21.64	21.62	21.64	21.74	21.68	22.00	2
		50	50	21.77	21.79	21.69	21.71	21.69	22.00	2
		100	0	21.72	21.70	21.65	21.73	21.69	22.00	2
20	64-QAM	1	0	21.61	21.70	21.68	21.79	21.77	22.00	2
		1	50	21.69	21.65	21.60	21.76	21.74	22.00	2
		1	99	21.78	21.77	21.74	21.60	21.76	22.00	2
		50	0	20.73	20.62	20.76	20.73	20.76	21.00	3
		50	25	20.60	20.66	20.75	20.64	20.75	21.00	3
		50	50	20.75	20.67	20.71	20.62	20.66	21.00	3
		100	0	20.65	20.78	20.63	20.78	20.66	21.00	3
20	256-QAM	1	0	20.72	20.67	20.79	20.70	20.73	21.00	3
		1	50	20.73	20.66	20.74	20.63	20.66	21.00	3
		1	99	20.65	20.69	20.79	20.62	20.73	21.00	3
		50	0	19.64	19.59	19.77	19.65	19.62	20.00	4
		50	25	19.65	19.60	19.75	19.62	19.74	20.00	4
		50	50	19.74	19.77	19.75	19.67	19.62	20.00	4
		100	0	19.72	19.78	19.66	19.64	19.70	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2503.5	2548.3	2593	2637.8	2682.5		
Channel				39725	40173	40620	41068	41515		
15	QPSK	1	0	23.61	23.71	23.78	23.59	23.70	24.00	0
		1	36	23.68	23.79	23.78	23.72	23.63	24.00	0
		1	74	23.65	23.79	23.59	23.59	23.67	24.00	0
		36	0	22.62	22.61	22.78	22.67	22.64	23.00	1
		36	18	22.65	22.77	22.61	22.60	22.64	23.00	1
		36	37	22.62	22.63	22.63	22.71	22.65	23.00	1
		75	0	22.69	22.59	22.62	22.71	22.63	23.00	1
15	16-QAM	1	0	22.60	22.65	22.69	22.66	22.79	23.00	1
		1	36	22.70	22.61	22.60	22.73	22.73	23.00	1
		1	74	22.78	22.67	22.69	22.72	22.63	23.00	1
		36	0	21.64	21.76	21.67	21.61	21.62	22.00	2
		36	18	21.73	21.60	21.60	21.63	21.70	22.00	2
		36	37	21.60	21.66	21.70	21.70	21.63	22.00	2
		75	0	21.75	21.73	21.79	21.61	21.62	22.00	2
15	64-QAM	1	0	21.62	21.65	21.65	21.67	21.60	22.00	2
		1	36	21.78	21.67	21.72	21.76	21.61	22.00	2
		1	74	21.67	21.78	21.68	21.67	21.79	22.00	2
		36	0	20.63	20.65	20.59	20.70	20.70	21.00	3
		36	18	20.64	20.71	20.75	20.76	20.78	21.00	3
		36	37	20.72	20.67	20.76	20.66	20.65	21.00	3
		75	0	20.73	20.75	20.76	20.70	20.60	21.00	3
15	256-QAM	1	0	20.65	20.59	20.65	20.76	20.59	21.00	3
		1	36	20.72	20.77	20.72	20.66	20.66	21.00	3
		1	74	20.67	20.60	20.65	20.73	20.66	21.00	3
		36	0	19.76	19.64	19.67	19.59	19.63	20.00	4
		36	18	19.74	19.60	19.69	19.74	19.76	20.00	4
		36	37	19.62	19.71	19.77	19.77	19.67	20.00	4
		75	0	19.60	19.61	19.75	19.66	19.79	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2501	2547	2593	2639	2685		
Channel				39700	40160	40620	41080	41540		
10	QPSK	1	0	23.70	23.75	23.74	23.67	23.59	24.00	0
		1	25	23.68	23.69	23.69	23.74	23.66	24.00	0
		1	49	23.62	23.70	23.60	23.78	23.77	24.00	0
		25	0	22.67	22.70	22.65	22.68	22.64	23.00	1
		25	12	22.68	22.65	22.67	22.75	22.72	23.00	1
		25	25	22.76	22.74	22.73	22.66	22.70	23.00	1
10	16-QAM	50	0	22.62	22.65	22.63	22.75	22.77	23.00	1
		1	0	22.78	22.64	22.74	22.71	22.78	23.00	1
		1	25	22.70	22.71	22.62	22.73	22.71	23.00	1
		1	49	22.71	22.70	22.60	22.75	22.72	23.00	1
		25	0	21.73	21.69	21.78	21.65	21.66	22.00	2
		25	12	21.73	21.59	21.72	21.60	21.59	22.00	2
10	64-QAM	25	25	21.77	21.68	21.69	21.78	21.70	22.00	2
		50	0	21.68	21.78	21.72	21.66	21.62	22.00	2
		1	0	21.77	21.69	21.61	21.72	21.60	22.00	2
		1	25	21.69	21.61	21.66	21.62	21.77	22.00	2
		1	49	21.67	21.64	21.64	21.67	21.72	22.00	2
		25	0	20.72	20.71	20.78	20.70	20.63	21.00	3
10	256-QAM	25	12	20.71	20.74	20.65	20.73	20.72	21.00	3
		25	25	20.69	20.76	20.68	20.73	20.67	21.00	3
		50	0	20.78	20.62	20.77	20.73	20.78	21.00	3
		1	0	20.73	20.78	20.74	20.63	20.68	21.00	3
		1	25	20.78	20.59	20.70	20.75	20.68	21.00	3
		1	49	20.63	20.72	20.78	20.61	20.67	21.00	3
10		25	0	19.71	19.79	19.65	19.75	19.71	20.00	4
		25	12	19.69	19.68	19.68	19.61	19.73	20.00	4
		25	25	19.61	19.79	19.65	19.64	19.77	20.00	4
		50	0	19.70	19.59	19.70	19.62	19.75	20.00	4

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LTE Band 41										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	23.78	23.71	23.67	23.64	23.70	24.00	0
		1	12	23.67	23.71	23.71	23.75	23.65	24.00	0
		1	24	23.69	23.77	23.59	23.63	23.79	24.00	0
		12	0	22.74	22.73	22.75	22.70	22.66	23.00	1
		12	6	22.67	22.71	22.76	22.76	22.75	23.00	1
		12	13	22.70	22.77	22.69	22.59	22.69	23.00	1
		25	0	22.75	22.71	22.67	22.63	22.61	23.00	1
5	16-QAM	1	0	22.63	22.76	22.73	22.75	22.64	23.00	1
		1	12	22.78	22.64	22.63	22.71	22.60	23.00	1
		1	24	22.78	22.70	22.69	22.61	22.79	23.00	1
		12	0	21.70	21.72	21.71	21.67	21.60	22.00	2
		12	6	21.61	21.76	21.66	21.62	21.67	22.00	2
		12	13	21.68	21.75	21.73	21.64	21.65	22.00	2
		25	0	21.62	21.65	21.68	21.77	21.74	22.00	2
5	64-QAM	1	0	21.64	21.67	21.65	21.76	21.59	22.00	2
		1	12	21.76	21.70	21.75	21.62	21.62	22.00	2
		1	24	21.72	21.67	21.77	21.65	21.70	22.00	2
		12	0	20.65	20.78	20.62	20.78	20.64	21.00	3
		12	6	20.60	20.66	20.72	20.77	20.60	21.00	3
		12	13	20.64	20.77	20.63	20.76	20.65	21.00	3
		25	0	20.66	20.73	20.69	20.74	20.71	21.00	3
5	256-QAM	1	0	20.72	20.65	20.78	20.67	20.71	21.00	3
		1	12	20.59	20.73	20.65	20.77	20.78	21.00	3
		1	24	20.72	20.69	20.77	20.64	20.63	21.00	3
		12	0	19.65	19.64	19.77	19.60	19.60	20.00	4
		12	6	19.67	19.74	19.74	19.63	19.69	20.00	4
		12	13	19.60	19.68	19.76	19.71	19.73	20.00	4
		25	0	19.74	19.62	19.60	19.76	19.73	20.00	4

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LTE Band 41_HPUE										
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	26.52	26.51	26.57	26.55	26.54	27.00	0
		1	50	26.09	26.12	26.11	26.13	26.22	27.00	0
		1	99	26.20	26.07	26.11	26.19	26.14	27.00	0
		50	0	25.14	25.18	25.23	25.16	25.24	26.00	1
		50	25	25.11	25.07	25.23	25.12	25.10	26.00	1
		50	50	25.18	25.07	25.05	25.08	25.11	26.00	1
		100	0	25.22	25.24	25.14	25.10	25.08	26.00	1
20	16-QAM	1	0	25.21	25.06	25.25	25.19	25.14	26.00	1
		1	50	25.10	25.07	25.22	25.09	25.12	26.00	1
		1	99	25.21	25.06	25.12	25.19	25.15	26.00	1
		50	0	24.12	24.18	24.16	24.24	24.14	25.00	2
		50	25	24.24	24.11	24.22	24.25	24.14	25.00	2
		50	50	24.15	24.23	24.20	24.14	24.17	25.00	2
		100	0	24.19	24.09	24.20	24.16	24.14	25.00	2
20	64-QAM	1	0	24.13	24.25	24.19	24.08	24.05	25.00	2
		1	50	24.18	24.09	24.21	24.09	24.23	25.00	2
		1	99	24.11	24.11	24.18	24.24	24.09	25.00	2
		50	0	23.15	23.19	23.07	23.18	23.16	24.00	3
		50	25	23.25	23.06	23.23	23.16	23.08	24.00	3
		50	50	23.19	23.13	23.18	23.23	23.17	24.00	3
		100	0	23.23	23.20	23.10	23.24	23.13	24.00	3
20	256-QAM	1	0	23.17	23.19	23.07	23.24	23.22	24.00	3
		1	50	23.13	23.20	23.14	23.16	23.06	24.00	3
		1	99	23.11	23.09	23.08	23.12	23.20	24.00	3
		50	0	22.12	22.10	22.09	22.07	22.20	23.00	4
		50	25	22.05	22.07	22.13	22.05	22.09	23.00	4
		50	50	22.11	22.08	22.23	22.17	22.14	23.00	4
		100	0	22.22	22.12	22.16	22.18	22.17	23.00	4

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LTE Band 41_HPUE										
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	26.06	26.24	26.13	26.13	26.21	27.00	0
		1	36	26.17	26.16	26.06	26.05	26.15	27.00	0
		1	74	26.15	26.18	26.17	26.07	26.16	27.00	0
		36	0	25.20	25.10	25.23	25.09	25.23	26.00	1
		36	18	25.18	25.24	25.17	25.23	25.22	26.00	1
		36	37	25.24	25.25	25.10	25.10	25.15	26.00	1
		75	0	25.06	25.07	25.13	25.05	25.08	26.00	1
15	16-QAM	1	0	25.19	25.25	25.07	25.18	25.13	26.00	1
		1	36	25.25	25.06	25.20	25.22	25.22	26.00	1
		1	74	25.24	25.12	25.10	25.09	25.08	26.00	1
		36	0	24.20	24.09	24.21	24.25	24.17	25.00	2
		36	18	24.05	24.11	24.06	24.17	24.08	25.00	2
		36	37	24.18	24.07	24.13	24.08	24.08	25.00	2
		75	0	24.09	24.18	24.06	24.11	24.07	25.00	2
15	64-QAM	1	0	24.07	24.08	24.17	24.10	24.16	25.00	2
		1	36	24.19	24.14	24.06	24.15	24.06	25.00	2
		1	74	24.13	24.20	24.16	24.12	24.10	25.00	2
		36	0	23.14	23.18	23.07	23.15	23.09	24.00	3
		36	18	23.11	23.16	23.13	23.14	23.17	24.00	3
		36	37	23.14	23.20	23.08	23.15	23.08	24.00	3
		75	0	23.11	23.06	23.20	23.22	23.17	24.00	3
15	256-QAM	1	0	23.24	23.19	23.19	23.19	23.20	24.00	3
		1	36	23.06	23.06	23.24	23.17	23.17	24.00	3
		1	74	23.19	23.11	23.08	23.11	23.10	24.00	3
		36	0	22.24	22.22	22.15	22.22	22.05	23.00	4
		36	18	22.08	22.20	22.07	22.17	22.11	23.00	4
		36	37	22.20	22.20	22.12	22.13	22.22	23.00	4
		75	0	22.07	22.10	22.13	22.14	22.16	23.00	4

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LTE Band 41_HPUE										
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	26.17	26.18	26.22	26.23	26.20	27.00	0
		1	25	26.21	26.10	26.07	26.15	26.07	27.00	0
		1	49	26.15	26.12	26.24	26.24	26.11	27.00	0
		25	0	25.05	25.17	25.11	25.10	25.13	26.00	1
		25	12	25.17	25.21	25.23	25.21	25.24	26.00	1
		25	25	25.17	25.10	25.21	25.12	25.06	26.00	1
		50	0	25.21	25.11	25.17	25.12	25.18	26.00	1
10	16-QAM	1	0	25.09	25.15	25.10	25.09	25.19	26.00	1
		1	25	25.20	25.05	25.12	25.10	25.17	26.00	1
		1	49	25.15	25.25	25.21	25.13	25.18	26.00	1
		25	0	24.10	24.18	24.19	24.06	24.18	25.00	2
		25	12	24.18	24.14	24.20	24.09	24.19	25.00	2
		25	25	24.19	24.12	24.19	24.19	24.23	25.00	2
		50	0	24.20	24.20	24.19	24.06	24.13	25.00	2
10	64-QAM	1	0	24.05	24.23	24.09	24.06	24.22	25.00	2
		1	25	24.16	24.24	24.19	24.22	24.11	25.00	2
		1	49	24.19	24.14	24.13	24.12	24.12	25.00	2
		25	0	23.10	23.10	23.21	23.14	23.23	24.00	3
		25	12	23.14	23.14	23.14	23.16	23.17	24.00	3
		25	25	23.13	23.22	23.07	23.10	23.22	24.00	3
		50	0	23.19	23.24	23.21	23.15	23.08	24.00	3
10	256-QAM	1	0	23.12	23.18	23.13	23.06	23.10	24.00	3
		1	25	23.22	23.19	23.20	23.16	23.11	24.00	3
		1	49	23.20	23.16	23.09	23.20	23.10	24.00	3
		25	0	22.24	22.23	22.16	22.21	22.15	23.00	4
		25	12	22.23	22.22	22.20	22.05	22.15	23.00	4
		25	25	22.14	22.23	22.09	22.08	22.13	23.00	4
		50	0	22.13	22.18	22.06	22.23	22.19	23.00	4

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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)				2498.5	2545.8	2593	2640.3	2687.5		
Channel				39675	40148	40620	41093	41565		
5	QPSK	1	0	26.06	26.11	26.15	26.14	26.18	27.00	0
		1	12	26.18	26.18	26.17	26.17	26.17	27.00	0
		1	24	26.25	26.12	26.08	26.25	26.11	27.00	0
		12	0	25.16	25.13	25.09	25.06	25.09	26.00	1
		12	6	25.23	25.14	25.06	25.23	25.13	26.00	1
		12	13	25.17	25.18	25.06	25.14	25.14	26.00	1
		25	0	25.21	25.06	25.15	25.06	25.12	26.00	1
5	16-QAM	1	0	25.18	25.17	25.17	25.18	25.12	26.00	1
		1	12	25.17	25.19	25.10	25.11	25.08	26.00	1
		1	24	25.06	25.24	25.10	25.10	25.10	26.00	1
		12	0	24.10	24.23	24.12	24.12	24.10	25.00	2
		12	6	24.25	24.17	24.22	24.12	24.19	25.00	2
		12	13	24.14	24.25	24.09	24.05	24.22	25.00	2
		25	0	24.19	24.25	24.06	24.13	24.19	25.00	2
5	64-QAM	1	0	24.23	24.05	24.17	24.18	24.21	25.00	2
		1	12	24.14	24.23	24.22	24.13	24.06	25.00	2
		1	24	24.09	24.23	24.23	24.05	24.18	25.00	2
		12	0	23.18	23.11	23.23	23.23	23.20	24.00	3
		12	6	23.07	23.21	23.14	23.16	23.17	24.00	3
		12	13	23.15	23.12	23.12	23.22	23.18	24.00	3
		25	0	23.13	23.18	23.08	23.10	23.16	24.00	3
5	256-QAM	1	0	23.13	23.13	23.16	23.12	23.17	24.00	3
		1	12	23.24	23.24	23.08	23.09	23.22	24.00	3
		1	24	23.12	23.12	23.08	23.12	23.22	24.00	3
		12	0	22.16	22.11	22.10	22.18	22.09	23.00	4
		12	6	22.07	22.08	22.11	22.10	22.24	23.00	4
		12	13	22.21	22.13	22.09	22.14	22.25	23.00	4
		25	0	22.09	22.09	22.07	22.24	22.20	23.00	4

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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	18.37	18.51	18.34	18.38	20.00	0
		1	50	18.44	18.45	18.42	18.46	20.00	0
		1	99	18.37	18.41	18.47	18.46	20.00	0
		50	0	17.42	17.46	17.47	17.37	19.00	1
		50	25	17.48	17.32	17.45	17.28	19.00	1
		50	50	17.37	17.29	17.34	17.42	19.00	1
		100	0	17.41	17.32	17.41	17.31	19.00	1
20	16-QAM	1	0	17.46	17.40	17.38	17.31	19.00	1
		1	50	17.34	17.31	17.34	17.46	19.00	1
		1	99	17.40	17.35	17.34	17.42	19.00	1
		50	0	16.34	16.30	16.36	16.31	18.00	2
		50	25	16.47	16.36	16.38	16.36	18.00	2
		50	50	16.34	16.37	16.47	16.34	18.00	2
		100	0	16.37	16.39	16.31	16.29	18.00	2
20	64-QAM	1	0	16.48	16.46	16.45	16.29	18.00	2
		1	50	16.46	16.39	16.46	16.42	18.00	2
		1	99	16.45	16.35	16.46	16.38	18.00	2
		50	0	15.39	15.29	15.49	15.37	17.00	3
		50	25	15.43	15.31	15.30	15.36	17.00	3
		50	50	15.30	15.33	15.31	15.45	17.00	3
		100	0	15.39	15.30	15.49	15.39	17.00	3
20	256-QAM	1	0	15.33	15.31	15.42	15.37	17.00	3
		1	50	15.33	15.28	15.32	15.30	17.00	3
		1	99	15.37	15.30	15.48	15.37	17.00	3
		50	0	14.44	14.36	14.43	14.33	16.00	4
		50	25	14.44	14.48	14.43	14.35	16.00	4
		50	50	14.46	14.45	14.48	14.34	16.00	4
		100	0	14.29	14.44	14.32	14.46	16.00	4

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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)				3557.5	3608	3642	3692.5		
Channel				55315	55820	56160	56665		
15	QPSK	1	0	18.41	18.42	18.46	18.33	20.00	0
		1	36	18.33	18.41	18.32	18.39	20.00	0
		1	74	18.42	18.32	18.41	18.41	20.00	0
		36	0	17.42	17.37	17.31	17.34	19.00	1
		36	18	17.45	17.38	17.29	17.43	19.00	1
		36	37	17.40	17.47	17.34	17.34	19.00	1
		75	0	17.38	17.47	17.29	17.44	19.00	1
15	16-QAM	1	0	17.35	17.46	17.28	17.41	19.00	1
		1	36	17.34	17.28	17.38	17.29	19.00	1
		1	74	17.36	17.47	17.30	17.33	19.00	1
		36	0	16.47	16.43	16.35	16.32	18.00	2
		36	18	16.44	16.36	16.32	16.44	18.00	2
		36	37	16.49	16.32	16.43	16.33	18.00	2
		75	0	16.34	16.41	16.47	16.44	18.00	2
15	64-QAM	1	0	16.32	16.32	16.37	16.34	18.00	2
		1	36	16.45	16.46	16.47	16.31	18.00	2
		1	74	16.43	16.46	16.42	16.36	18.00	2
		36	0	15.33	15.43	15.35	15.38	17.00	3
		36	18	15.29	15.37	15.47	15.37	17.00	3
		36	37	15.39	15.47	15.28	15.36	17.00	3
		75	0	15.43	15.32	15.38	15.29	17.00	3
15	256-QAM	1	0	15.41	15.33	15.46	15.42	17.00	3
		1	36	15.38	15.39	15.41	15.41	17.00	3
		1	74	15.46	15.41	15.45	15.43	17.00	3
		36	0	14.42	14.44	14.39	14.33	16.00	4
		36	18	14.35	14.37	14.40	14.36	16.00	4
		36	37	14.43	14.35	14.37	14.41	16.00	4
		75	0	14.39	14.44	14.31	14.47	16.00	4

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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)				3555	3607.5	3642.5	3695		
Channel				55290	55815	56165	56690		
10	QPSK	1	0	18.39	18.34	18.31	18.38	20.00	0
		1	25	18.37	18.30	18.45	18.48	20.00	0
		1	49	18.44	18.46	18.47	18.42	20.00	0
		25	0	17.38	17.39	17.33	17.46	19.00	1
		25	12	17.40	17.47	17.40	17.41	19.00	1
		25	25	17.31	17.42	17.28	17.38	19.00	1
		50	0	17.30	17.32	17.34	17.34	19.00	1
10	16-QAM	1	0	17.42	17.43	17.35	17.43	19.00	1
		1	25	17.39	17.30	17.45	17.28	19.00	1
		1	49	17.42	17.32	17.39	17.45	19.00	1
		25	0	16.42	16.39	16.29	16.42	18.00	2
		25	12	16.37	16.35	16.36	16.42	18.00	2
		25	25	16.34	16.42	16.46	16.30	18.00	2
		50	0	16.45	16.46	16.34	16.28	18.00	2
10	64-QAM	1	0	16.45	16.35	16.34	16.45	18.00	2
		1	25	16.41	16.31	16.44	16.48	18.00	2
		1	49	16.42	16.38	16.29	16.46	18.00	2
		25	0	15.43	15.30	15.43	15.36	17.00	3
		25	12	15.49	15.48	15.40	15.34	17.00	3
		25	25	15.46	15.46	15.32	15.37	17.00	3
		50	0	15.41	15.32	15.34	15.34	17.00	3
10	256-QAM	1	0	15.42	15.29	15.39	15.31	17.00	3
		1	25	15.48	15.35	15.48	15.47	17.00	3
		1	49	15.46	15.30	15.42	15.46	17.00	3
		25	0	14.40	14.43	14.34	14.35	16.00	4
		25	12	14.35	14.38	14.34	14.32	16.00	4
		25	25	14.49	14.35	14.30	14.44	16.00	4
		50	0	14.39	14.34	14.31	14.44	16.00	4

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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	18.40	18.45	18.41	18.43	20.00	0
		1	12	18.35	18.44	18.28	18.48	20.00	0
		1	24	18.37	18.37	18.37	18.38	20.00	0
		12	0	17.46	17.29	17.35	17.45	19.00	1
		12	6	17.43	17.38	17.37	17.33	19.00	1
		12	13	17.30	17.40	17.47	17.40	19.00	1
		25	0	17.39	17.45	17.42	17.32	19.00	1
5	16-QAM	1	0	17.38	17.33	17.38	17.43	19.00	1
		1	12	17.38	17.44	17.41	17.33	19.00	1
		1	24	17.41	17.47	17.40	17.30	19.00	1
		12	0	16.41	16.29	16.42	16.41	18.00	2
		12	6	16.30	16.36	16.44	16.44	18.00	2
		12	13	16.45	16.35	16.47	16.47	18.00	2
		25	0	16.43	16.45	16.37	16.35	18.00	2
5	64-QAM	1	0	16.46	16.34	16.39	16.47	18.00	2
		1	12	16.47	16.46	16.35	16.34	18.00	2
		1	24	16.34	16.41	16.34	16.34	18.00	2
		12	0	15.35	15.40	15.36	15.42	17.00	3
		12	6	15.40	15.36	15.40	15.42	17.00	3
		12	13	15.44	15.38	15.37	15.35	17.00	3
		25	0	15.44	15.48	15.46	15.42	17.00	3
5	256-QAM	1	0	15.45	15.34	15.46	15.43	17.00	3
		1	12	15.30	15.37	15.46	15.40	17.00	3
		1	24	15.40	15.42	15.38	15.40	17.00	3
		12	0	14.39	14.34	14.47	14.29	16.00	4
		12	6	14.33	14.44	14.47	14.36	16.00	4
		12	13	14.32	14.34	14.40	14.39	16.00	4
		25	0	14.48	14.36	14.37	14.39	16.00	4

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5.4 LTE DL CA

LTE Downlink 2CA conducted power table

DL_2CA

Two Component Carrier Maximum Conducted Power														
PCC								SCC				Power		Configurations
PCC Band	PCC Bandwidth [MHz]	PCC (UL) Channel	PCC (UL) Frequency [MHz]	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	10	18650	1855	1	0	650	1935	17	10	5790	740	22.56	22.75	CA 2A-17A
4	10	20350	1750	1	0	2350	2150	17	10	5790	740	22.91	23.05	CA 4A-17A
4	20	20050	1720	1	50	2050	2120	48	20	55830	3609	23.12	23.24	CA 4A-48A
5	10	20600	844	1	0	2600	889	7	20	3100	2655	23.77	23.88	CA 5A-7A
7	20	21350	2560	1	99	3350	2680	5	10	2525	881.5	22.68	22.81	CA 7A-5A
7	20	21350	2560	1	99	3350	2680	7	5	2775	2622.5	22.60	22.80	CA 7A-7A
13	10	23230	782	1	25	5230	751	48	20	55830	3609	22.88	23.01	CA 13A-48A
13	10	23230	782	1	25	5230	751	66	20	66886	2155	22.80	22.99	CA 13A-66A
14	10	23330	793	1	25	5330	763	30	10	9820	2355	22.82	22.97	CA 14A-30A
14	10	23330	793	1	25	5330	763	66	20	66886	2155	22.83	22.94	CA 14A-66A
17	10	23780	709	1	25	5780	739	2	10	900	1960	22.98	23.12	CA 17A-2A
17	10	23780	709	1	25	5780	739	4	10	2175	2132.5	22.98	23.1	CA 17A-4A
25	20	26140	1860	1	50	8140	1940	25	5	8665	1992.5	22.87	23.02	CA 25A-25A
25	20	26140	1860	1	50	8140	1940	26	15	8865	876.5	22.90	23.08	CA 25A-26A
25	20	26140	1860	1	50	8140	1940	41	20	40620	2593	22.93	23.09	CA 25A-41A
26	15	26765	821.5	1	0	8765	866.5	25	20	8340	1960	24.19	24.36	CA 26A-25A
26	15	26765	821.5	1	0	8765	866.5	41	20	40620	2593	24.25	24.41	CA 26A-41A
30	10	27710	2310	1	0	9820	2355	14	10	5330	763	22.41	22.6	CA 30A-14A
30	10	27710	2310	1	0	9820	2355	66	20	66886	2155	22.40	22.59	CA 30A-66A
41	20	41055	2636.5	1	0	41055	2636.5	25	20	8340	1960	23.76	23.88	CA 41A-25A
41	20	41055	2636.5	1	0	41055	2636.5	26	15	8865	876.5	23.65	23.78	CA 41A-26A
41	20	41055	2636.5	1	0	41055	2636.5	41	5	39675	2498.5	23.70	23.86	CA 41A-41A
48	20	55830	3609	1	0	55830	3609	4	20	2175	2132.5	18.31	18.41	CA 48A-4A
48	20	55830	3609	1	0	55830	3609	13	10	5230	751	18.29	18.49	CA 48A-13A
48	20	55830	3609	1	0	55830	3609	48	5	55265	3552.5	18.24	18.42	CA 48A-48A
48	20	55830	3609	1	0	55830	3609	66	20	66886	2155	18.30	18.45	CA 48A-66A
66	20	132572	1770	1	0	67236	2190	12	10	5095	737.5	22.87	23.04	CA 66A-12A
66	20	132572	1770	1	0	67236	2190	13	10	5230	751	22.88	23.05	CA 66A-13A
66	20	132572	1770	1	0	67236	2190	14	10	5330	763	22.93	23.06	CA 66A-14A
66	20	132572	1770	1	0	67236	2190	30	10	9820	2355	22.97	23.08	CA 66A-30A
66	20	132572	1770	1	0	67236	2190	48	20	55830	3609	22.95	23.11	CA 66A-48A
66	20	132572	1770	1	0	67236	2190	66	5	66461	2112.5	22.87	23.07	CA 66A-66A
66	20	132572	1770	1	0	67236	2190	71	20	68761	634.5	22.91	23.07	CA 66A-71A
71	20	133372	688	1	0	68761	634.5	66	20	66886	2155	22.97	23.17	CA 71A-66A
7	20	21350	2560	1	99	3350	2680	7	20	3152	2660.2	22.59	22.79	CA 7C
38	20	38150	2610	1	50	38150	2610	38	20	37952	2590.2	22.93	23.12	CA 38C

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.

除非另有說明，此報告結果僅對測試之樣品負責，同時此樣品僅保留90天。本報告未經本公司書面許可，不可部份複製。

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Three Component Carrier Maximum Conducted Power																				
PCC										SCC 1				SCC 2				Power		
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)	Configurations	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	2	20	900	1960	22.84	22.96	CA 2A-5A-2A	
2	20	18900	1880	QPSK	1	50	900	1960	12	10	5095	737.5	2	20	900	1960	22.87	22.98	CA 2A-12A-2A	
2	20	18900	1880	QPSK	1	50	900	1960	13	10	5230	751	2	20	900	1960	22.8	22.96	CA 2A-13A-2A	
2	20	18900	1880	QPSK	1	50	900	1960	14	10	5330	763	2	20	900	1960	22.82	23.01	CA 2A-14A-2A	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	4	20	2175	2132.5	22.8	22.92	CA 2A-5A-4A	
2	20	18900	1880	QPSK	1	50	900	1960	13	10	5230	751	4	20	2175	2132.5	22.84	22.94	CA 2A-13A-4A	
2	20	18900	1880	QPSK	1	50	900	1960	48	20	55830	3609	5	10	2525	881.5	22.79	22.94	CA 2A-48A-5A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	4	20	2175	2132.5	22.80	22.96	CA 2A-2A-4A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	5	10	2525	881.5	22.77	22.94	CA 2A-2A-5A	
2	20	18900	1880	QPSK	1	50	900	1960	2	20	1098	1979.8	66	20	66886	2155	22.75	22.93	CA 2C-66A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	12	10	5095	737.5	22.77	22.97	CA 2A-2A-12A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	13	10	5230	751	22.74	22.94	CA 2A-2A-13A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	14	10	5330	763	22.81	22.93	CA 2A-2A-14A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	30	10	9820	2355	22.87	22.98	CA 2A-2A-30A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	66	20	66886	2155	22.81	22.95	CA 2A-2A-66A	
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	71	20	68761	634.5	22.90	23.01	CA 2A-2A-71A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	4	5	1975	2112.5	22.90	23.01	CA 2A-4A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	5	10	2525	881.5	22.81	22.94	CA 2A-4A-5A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	7	20	3100	2655	22.86	22.97	CA 2A-4A-7A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	12	10	5095	737.5	22.81	22.98	CA 2A-4A-12A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	13	10	5230	751	22.84	23.02	CA 2A-4A-13A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	30	10	9820	2355	22.76	22.92	CA 2A-4A-30A	
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	71	20	68761	634.5	22.75	22.93	CA 2A-4A-71A	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	5	5	2425	871.5	22.85	22.98	CA 2A-5A-5A	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	30	10	9820	2355	22.87	23.01	CA 2A-5A-30A	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	48	20	55830	3609	22.86	22.96	CA 2A-5A-48A	
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	66	20	66886	2155	22.73	22.93	CA 2A-5A-66A	
2	20	18900	1880	QPSK	1	50	900	1960	12	10	5095	737.5	30	10	9820	2355	22.80	23.00	CA 2A-12A-30A	
2	20	18900	1880	QPSK	1	50	900	1960	12	10	5095	737.5	66	20	66886	2155	22.91	23.02	CA 2A-12A-66A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	2	5	1175	1987.5	22.98	23.15	CA 4A-2A-2A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	4	20	2050	2120	22.99	23.17	CA 4A-2A-4A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	5	10	2525	881.5	23.02	23.15	CA 4A-2A-5A	
4	20	20050	1720	QPSK	1	50	2050	2120	5	10	2525	881.5	2	20	900	1960	23.05	23.18	CA 4A-5A-2A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	7	20	3100	2655	23.05	23.18	CA 4A-2A-7A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	12	10	5095	737.5	23.08	23.18	CA 4A-2A-12A	
4	20	20050	1720	QPSK	1	50	2050	2120	12	10	5095	737.5	2	20	900	1960	23.08	23.23	CA 4A-12A-2A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	13	10	5230	751	23.1	23.23	CA 4A-2A-13A	
4	20	20050	1720	QPSK	1	50	2050	2120	13	10	5230	751	2	20	900	1960	23.01	23.21	CA 4A-13A-2A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	30	10	9820	2355	23.07	23.18	CA 4A-2A-30A	
4	20	20050	1720	QPSK	1	50	2050	2120	2	20	900	1960	71	20	68761	634.5	23.03	23.14	CA 4A-2A-71A	
4	20	20050	1720	QPSK	1	50	2050	2120	48	20	55830	3609	48	20	56028	3628.8	23.01	23.17	CA 4A-48C	
5	10	20600	844	QPSK	1	0	2600	889	2	20	900	1960	2	5	1175	1987.5	23.69	23.88	CA 5A-2A-2A	
5	10	20600	844	QPSK	1	0	2600	889	4	20	2175	2132.5	2	20	900	1960	23.63	23.82	CA 5A-4A-2A	
5	10	20600	844	QPSK	1	0	2600	889	2	20	900	1960	5	10	2450	874	23.7	23.85	CA 5A-2A-5A	
5	10	20600	844	QPSK	1	0	2600	889	2	20	900	1960	30	10	9820	2355	23.71	23.85	CA 5A-2A-30A	
5	10	20600	844	QPSK	1	0	2600	889	2	20	900	1960	48	20	55830	3609	23.62	23.81	CA 5A-2A-48A	
5	10	20600	844	QPSK	1	0	2600	889	48	20	55830	3609	2	20	900	1960	23.68	23.88	CA 5A-48A-2A	
5	10	20600	844	QPSK	1	0	2600	889	2	20	900	1960	66	20	66886	2155	23.64	23.84	CA 5A-66A-66A	
5	10	20600	844	QPSK	1	0	2600	889	66	20	66886	2155	2	20	900	1960	23.67	23.84	CA 5A-66A-2A	
7	20	21360	2560	QPSK	1	99	3350	2680	4	20	2175	2132.5	2	20	900	1960	22.6	22.8	CA 7A-4A-2A	
12	10	23060	704	QPSK	1	0	5060	734	2	20	900	1960	2	5	1175	1987.5	22.98	23.08	CA 12A-2A-2A	
12	10	23060	704	QPSK	1	0	5060	734	4	20	2175	2132.5	2	20	900	1960	22.91	23.11	CA 12A-4A-2A	
12	10	23060	704	QPSK	1	0	5060	734	2	20	900	1960	30	10	9820	2355	22.9	23.05	CA 12A-2A-30A	
12	10	23060	704	QPSK	1	0	5060	734	66	20	66886	2155	66	20	67084	2174.8	22.96	23.13	CA 12A-66C	
13	10	23230	782	QPSK	1	25	5230	751	2	20	900	1960	2	5	1175	1987.5	22.81	23.01	CA 13A-2A-2A	
13	10	23230	782	QPSK	1	25	5230	751	4	20	2175	2132.5	2	20	900	1960	22.8	22.95	CA 13A-4A-2A	
13	10	23230	782	QPSK	1	25	5230	751	66	15	66886	2155	66	20	66979	2164.3	22.87	23.00	CA 13A-66B	
13	10	23230	782	QPSK	1	25	5230	751	66	20	66886	2155	66	20	67084	2174.8	22.75	22.92	CA 13A-66C	
14	10	23330	793	QPSK	1	25	5330	763	2	20	900	1960	2	5	1175	1987.5	22.7	22.88	CA 14A-2A-2A	
25	20	26140	1860	QPSK	1	50	8140	1940	41	20	40620	2593	41	20	40818	2612.8	22.80	22.92	CA 25A-41C	
26	15	26765	821.5	QPSK	1	0	8765	866.5	41	20	40620	2593	41	20	40818	2612.8	24.23	24.33	CA 26A-41C	
30	10	27710	2310	QPSK	1															

Four Component Carrier Maximum Conducted Power																								Power		Configurations
SCC 1												SCC 2				SCC 3										
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]	SCC Band	SCC Bandwidth [MHz]	SCC (DL) Channel	SCC (DL) Frequency [MHz]	LTE Tx Power with DC Active (dBm)	LTE Tx Power with DC Inactive (dBm)				
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	5	10	2525	881.5	5	10	2624	891.4	22.86	23.01		CA 2A-2A-5B		
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	66	15	66868	2155	66	5	66979	2164.3	22.86	23.01	CA 2A-2A-6B			
2	20	18900	1880	QPSK	1	50	900	1960	2	5	1175	1987.5	66	20	66868	2155	66	20	66979	2164.3	22.86	23.01	CA 2A-2A-6B			
2	20	18900	1880	QPSK	1	50	900	1960	4	20	2175	2132.5	5	10	2525	881.5	5	10	2624	891.4	22.82	22.94	CA 2A-2A-5B			
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	5	10	2624	891.4	30	10	9820	2355	22.81	22.97	CA 2B-2A-3B			
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	48	20	95348	3660.8	48	20	95348	3660.8	22.88	23.01	CA 2A-5A-4B			
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	66	15	66868	2155	66	15	66979	2164.3	22.86	22.99	CA 2A-5A-6B			
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	66	20	66868	2155	66	20	67084	2174.8	22.80	22.91	CA 2A-5A-6B			
2	20	18900	1880	QPSK	1	50	900	1960	5	10	2525	881.5	66	20	66868	2155	66	20	66868	2155	22.82	22.95	CA 2A-5B-6A			
4	20	20090	1720	QPSK	1	50	20050	2120	2	20	900	1960	5	10	2525	881.5	5	10	2624	891.4	23.1	23.20	CA 4A-2A-5B			
5	10	20600	844	QPSK	1	0	26000	889	5	20	900	1960	66	20	66868	2155	66	20	66948	2148	23.67	23.78	CA 5A-6B-2A			
5	10	20600	844	QPSK	1	0	26000	889	5	10	2099	888.9	2	20	900	1960	2	20	900	1960	23.67	23.78	CA 5B-2A-5A			
5	10	20600	844	QPSK	1	0	26000	889	5	10	2099	888.9	4	20	2175	2132.5	2	20	900	1960	23.68	23.82	CA 5B-4A-2A			
5	10	20600	844	QPSK	1	0	26000	889	5	10	2099	888.9	2	20	900	1960	30	10	9820	2355	23.69	23.86	CA 5B-2A-3A			
5	10	20600	844	QPSK	1	0	26000	889	2	20	900	1960	48	20	95348	3660.8	48	20	95348	3660.8	23.71	23.84	CA 5A-2A-6B			
5	10	20600	844	QPSK	1	0	26000	889	2	20	900	1960	66	15	66868	2155	66	5	66979	2164.3	23.75	23.88	CA 5A-2A-6B			
5	10	20600	844	QPSK	1	0	26000	889	66	15	66868	2155	66	5	66979	2164.3	2	20	900	1960	23.68	23.78	CA 5A-6B-2A			
5	10	20600	844	QPSK	1	0	26000	889	2	20	900	1960	66	20	66868	2155	66	20	67084	2174.8	23.7	23.83	CA 5A-2A-6B			
5	10	20600	844	QPSK	1	0	26000	889	5	10	2099	888.9	66	20	66868	2155	66	20	66868	2155	23.71	23.86	CA 5B-2A-6A			
5	10	20600	844	QPSK	1	0	26000	889	5	10	2099	888.9	66	20	66868	2155	2	20	900	1960	23.62	23.81	CA 5B-6A-2A			
13	10	23230	782	QPSK	1	25	5230	751	48	20	95150	3641	48	20	95348	3660.8	48	20	95548	3680.6	22.91	23.01	CA 13A-4B-2A			
25	20	21640	1860	QPSK	1	8140	19020	19020	2	1940	19020	19020	2	21	41016	2033.6	21	20	41016	2033.6	22.12	22.23	CA 25A-11B			
30	10	27710	2310	QPSK	1	0	9820	2355	5	10	2525	881.5	5	10	2624	891.4	2	20	900	1960	22.35	22.54	CA 30A-5B-2A			
66	15	132322	1745	QPSK	1	0	66786	2145	66	5	66879	2154.3	2	20	900	1960	2	20	900	1960	22.86	22.98	CA 66B-2A-5A			
66	20	132572	1770	QPSK	1	0	67236	2190	66	20	67234	2209.8	66	20	900	1960	2	5	1175	1987.5	22.87	22.99	CA 66C-2A-5A			
66	15	132047	1717.5	QPSK	1	0	66511	2117.5	66	5	66804	2126.8	2	20	900	1960	2	5	1175	1987.5	22.87	22.99	CA 66B-2A-5A			
66	20	132572	1770	QPSK	1	0	67236	2190	5	10	2525	881.5	5	10	2624	891.4	2	20	900	1960	22.77	22.91	CA 66C-5A-2A			
66	20	132572	1770	QPSK	1	0	67236	2190	5	10	2525	881.5	5	10	2624	891.4	2	20	900	1960	22.75	22.93	CA 66B-5A-2A			
66	15	132047	1717.5	QPSK	1	0	66511	2117.5	66	5	66804	2126.8	48	20	95150	3641	48	20	95348	3660.8	22.79	22.99	CA 66B-4B-5C			
66	20	132572	1770	QPSK	1	0	67236	2190	66	20	67234	2209.8	66	20	95150	3641	66	20	95348	3660.8	22.79	22.99	CA 66B-4B-5C			
66	20	132572	1770	QPSK	1	0	67236	2190	48	20	95150	3641	48	20	95348	3660.8	48	20	95548	3680.6	22.83	22.99	CA 66A-4B			
41	20	41055	2636.5	QPSK	1	0	41055	2636.5	41	20	41253	2656.3	41	20	41451	2676.1	25	20	41840	1960	23.63	23.78	CA 41D-25A			
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3628.8	66	20	66868	2155	66	20	67084	2174.8	18.12	18.22	CA 48C-6B			
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3628.8	66	20	66868	2155	66	20	66868	2155	18.12	18.22	CA 48B			
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3628.8	66	15	66868	2155	66	5	66979	2164.3	18.02	18.22	CA 48C-6B			
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3628.8	5	10	2525	881.5	2	20	900	1960	18.03	18.23	CA 48C-5A-2A			
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3628.8	48	20	56226	3648.6	4	20	2175	2132.5	18.07	18.27	CA 48D-4A			

DL 5CA

Five Component Carrier Maximum Conducted Power																											Power		Configuration
PCC							SCC 1			SCC 2			SCC 3			SCC 4			LTE Power with DL CA active (dBm)	LTE Power with CA inactive (dBm)									
PCC Band	PCC Bandwidth [MHz]	PCC (DL) Channel	PCC (DL) Frequency [MHz]	Modulation	PCC (DL) RB	PCC (DL) 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]	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 Power with DL CA active (dBm)	LTE Power with CA inactive (dBm)	
2	20	18900	18900	QPSK	1	50	9000	19900	5	10	2020	881.5	5	20	58800	3609	48	20	56028	3608.8	48	20	56028	3608.8	22.74	22.74	CA 2A-5A-MB		
2	20	18900	18900	QPSK	1	50	9000	19900	5	10	2020	881.5	5	10	2624	891.4	65	15	56028	3608.8	48	20	56028	3608.8	22.74	22.84	CA 2A-5A-66B		
2	20	18900	18900	QPSK	1	50	9000	19900	5	10	2624	881.5	5	10	2723	901.3	65	20	56028	3608.8	48	20	56028	3608.8	22.81	22.81	CA 2A-5B-66B		
2	20	18900	18900	QPSK	1	50	9000	19900	5	10	2624	881.5	5	10	2624	891.4	65	15	56028	3608.8	48	20	56028	3608.8	22.81	22.81	CA 2A-5B-66B		
4	20	20050	1720	QPSK	1	50	20050	2120	48	20	58830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	20	56028	3608.8	22.96	23.08	CA 4A-4E		
5	20	20050	844	QPSK	1	20	20050	889	2	20	2699	889.9	2	20	56028	3608.8	48	20	56028	3608.8	48	20	56028	3608.8	23.17	23.17	CA 5A-4E		
5	20	20050	844	QPSK	1	20	20050	889	2	20	2699	889.9	2	20	56028	3608.8	48	20	56028	3608.8	48	20	56028	3608.8	23.17	23.17	CA 5A-4E		
5	20	20050	844	QPSK	1	20	20050	889	2	20	2699	889.9	2	20	900	1960	65	15	56028	3608.8	48	20	56028	3608.8	23.17	23.17	CA 5A-4E		
5	20	20050	844	QPSK	1	20	20050	889	2	20	2699	889.9	2	20	900	1960	65	15	56028	3608.8	48	20	56028	3608.8	23.17	23.17	CA 5A-4E		
5	20	20050	844	QPSK	1	20	20050	889	2	20	2699	889.9	2	20	900	1960	65	15	56028	3608.8	48	20	56028	3608.8	23.17	23.17	CA 5A-4E		
13	10	21320	732	QPSK	1	25	21320	751	48	20	58830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	20	56028	3608.8	22.68	22.82	CA 13A-4E		
66	15	132047	1717.5	QPSK	1	0	69511	2117.5	66	5	59804	2126.5	5	10	2624	881.5	5	10	2624	891.4	2	20	56028	3608.8	22.87	22.87	CA 66B-5A-2E		
66	20	132047	1720	QPSK	1	0	67236	2120	66	5	59804	2126.5	5	10	2624	881.5	5	10	2624	891.4	2	20	56028	3608.8	22.99	22.99	CA 66B-5B-2A		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	10	2320	881.5	2	20	56028	3608.8	18.17	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	10	2320	881.5	2	20	56028	3608.8	18.17	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48	20	55830	3609	QPSK	1	0	55830	3609	48	20	56028	3608.8	48	20	56028	3608.8	48	15	56397	3605.7	2	20	56028	3608.8	18.14	18.30	CA 48B-5A-2E		
48																													

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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LTE DL CA information**A)**

The device supports maximum of 5 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.

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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B)

DL CA combination table

Index	2CC	Restriction	Completely Covered by Measurement Superset	Index	3CC	Restriction	Completely Covered by Measurement Superset	Index	4CC	Restriction	Completely Covered by Measurement Superset	Index	5CC	Restriction	Completely Covered by Measurement Superset
2CC #1	CA 2A-2A		3CC #2	3CC #1	CA 2A-5B		4CC #2	4CC #1	CA 2A-48D		5CC #1	5CC #1	CA 2A-5A-48D		No
2CC #2	CA 2A-5A		3CC #21	3CC #2	CA 2A-5A-2A		No	4CC #2	CA 2A-2A-5B		No	5CC #2	CA 2A-5B-66B		No
2CC #3	CA 2A-5A		3CC #2	3CC #3	CA 2A-12A-2A		No	4CC #3	CA 2A-2A-66B		No	5CC #3	CA 2A-5B-66C		No
2CC #4	CA 2A-7A		3CC #23	3CC #4	CA 2A-13A-2A		No	4CC #4	CA 2A-2A-66C		No	5CC #4	CA 2A-48E		No
2CC #5	CA 2A-12A		3CC #3	3CC #5	CA 2A-14A-2A		No	4CC #5	CA 2A-4A-5B		No	5CC #5	CA 4A-48E		No
2CC #6	CA 2A-13A		3CC #4	3CC #6	CA 2A-5A-4A		No	4CC #6	CA 2A-5B-30A		No	5CC #6	CA 5A-2A-48D		No
2CC #7	CA 2A-14A		3CC #5	3CC #7	CA 2A-13A-4A		No	4CC #7	CA 2A-5A-48C		No	5CC #7	CA 5A-48E		No
2CC #8	CA 2A-17A		No	3CC #8	CA 2A-48A-5A		No	4CC #8	CA 2A-5A-66B		No	5CC #8	CA 5B-2A-66B		No
2CC #9	CA 2A-30A		3CC #18	3CC #9	CA 2A-2A-4A		No	4CC #9	CA 2A-5A-66C		No	5CC #9	CA 5B-66B-2A		No
2CC #10	CA 2A-48A		3CC #6	3CC #10	CA 2A-2A-5A		No	4CC #10	CA 2A-5B-66A		No	5CC #10	CA 5B-2A-66C		No
2CC #11	CA 2A-66A		3CC #19	3CC #11	CA 2A-48C		4CC #17	4CC #11	CA 4A-2A-5B		No	5CC #11	CA 5B-66C-2A		No
2CC #12	CA 2A-71A		3CC #20	3CC #12	CA 2A-66B		4CC #18	4CC #12	CA 4A-48D		No	5CC #12	CA 13A-48E		No
2CC #13	CA 4A-2A		3CC #34	3CC #13	CA 2A-66C		4CC #20	4CC #13	CA 5A-48D		5CC #1	5CC #13	CA 66B-5B-2A		No
2CC #14	CA 4A-4A		3CC #35	3CC #14	CA 2C-66A		No	4CC #14	CA 5B-2A-2A		No	5CC #14	CA 66C-5B-2A		No
2CC #15	CA 4A-5A		3CC #36	3CC #15	CA 2A-2A-12A		No	4CC #15	CA 5B-4A-2A		No	5CC #15	CA 48D-5A-2A		No
2CC #16	CA 4A-7A		3CC #38	3CC #16	CA 2A-2A-13A		No	4CC #16	CA 5B-2A-30A		No	5CC #16	CA 48E-66A		No
2CC #17	CA 4A-12A		3CC #40	3CC #17	CA 2A-2A-14A		No	4CC #17	CA 5A-2A-48C		No	5CC #17	CA 48E-2A		No
2CC #18	CA 4A-13A		3CC #41	3CC #18	CA 2A-2A-30A		No	4CC #18	CA 5A-2A-66B		No	5CC #18	CA 48E-4A		No
2CC #19	CA 4A-17A		No	3CC #19	CA 2A-2A-66A		No	4CC #19	CA 5A-66B-2A		No	5CC #19	CA 48E-5A		No
2CC #20	CA 4A-30A		3CC #43	3CC #20	CA 2A-2A-71A		No	4CC #20	CA 5A-2A-66C		No	5CC #20	CA 48E-13A		No
2CC #21	CA 4A-48A		No	3CC #21	CA 2A-4A-4A		No	4CC #21	CA 5A-66C-2A		No	5CC #21	CA 48E-66A		No
2CC #22	CA 4A-71A		3CC #27	3CC #22	CA 2A-4A-5A		No	4CC #22	CA 5B-2A-66A		No				
2CC #23	CA 5A-2A		3CC #48	3CC #23	CA 2A-4A-7A		No	4CC #23	CA 5B-66A-2A		No				
2CC #24	CA 5A-4A		3CC #49	3CC #24	CA 2A-4A-12A		No	4CC #24	CA 5B-66B		No				
2CC #25	CA 5A-5A		3CC #28	3CC #25	CA 2A-4A-13A		No	4CC #25	CA 5B-66C		5CC #11				
2CC #26	CA 5A-7A		No	3CC #26	CA 2A-4A-30A		No	4CC #26	CA 13A-48D		No				
2CC #27	CA 5A-30A		3CC #29	3CC #27	CA 2A-4A-71A		No	4CC #27	CA 25A-41D		No				
2CC #28	CA 5A-48A		3CC #30	3CC #28	CA 2A-5A-5A		No	4CC #28	CA 30A-5B-2A		No				
2CC #29	CA 5A-66A		3CC #31	3CC #29	CA 2A-5A-30A		No	4CC #29	CA 66B-2A-2A		No				
2CC #30	CA 7A-2A		3CC #52	3CC #30	CA 2A-5A-48A		No	4CC #30	CA 66C-2A-2A		No				
2CC #31	CA 7A-4A		3CC #52	3CC #31	CA 2A-5A-66A		No	4CC #31	CA 66B-5A-2A		No				
2CC #32	CA 7A-5A		No	3CC #32	CA 2A-12A-30A		No	4CC #32	CA 66C-5A-2A		No				
2CC #33	CA 7A-7A		No	3CC #33	CA 2A-12A-66A		No	4CC #33	CA 66A-5B-2A		No				
2CC #34	CA 12A-2A		3CC #53	3CC #34	CA 4A-2A-2A		No	4CC #34	CA 66B-5B		5CC #13				
2CC #35	CA 12A-4A		3CC #54	3CC #35	CA 4A-2A-4A		No	4CC #35	CA 66C-5B		5CC #14				
2CC #36	CA 12A-30A		3CC #55	3CC #36	CA 4A-2A-5A		No	4CC #36	CA 66B-48C		No				
2CC #37	CA 12A-66A		3CC #53	3CC #37	CA 4A-9A-2A		No	4CC #37	CA 66C-48C		No				
2CC #38	CA 13A-2A		3CC #57	3CC #38	CA 4A-2A-7A		No	4CC #38	CA 66A-48D		No				
2CC #39	CA 13A-4A		3CC #58	3CC #39	CA 4A-2A-12A		No	4CC #39	CA 41D-25A		No				
2CC #40	CA 13A-48A		No	3CC #40	CA 4A-12A-2A		No	4CC #40	CA 48C-66C		No				
2CC #41	CA 13A-66A		No	3CC #41	CA 4A-2A-13A		No	4CC #41	CA 48D-66A		No				
2CC #42	CA 14A-2A		3CC #72	3CC #42	CA 4A-13A-2A		No	4CC #42	CA 48C-66B		No				
2CC #43	CA 14A-30A		No	3CC #43	CA 4A-2A-30A		No	4CC #43	CA 48C-5A-2A		No				
2CC #44	CA 14A-66A		No	3CC #44	CA 4A-2A-71A		No	4CC #44	CA 48D-4A		No				
2CC #45	CA 17A-2A		No	3CC #45	CA 4A-5B		4CC #11	4CC #45	CA 48D-5A		5CC #15				
2CC #46	CA 17A-4A		No	3CC #46	CA 4A-66B		No	4CC #46	CA 48D-13A		No				
2CC #47	CA 25A-2A		No	3CC #47	CA 5B-2A		4CC #28	4CC #47	CA 48D-2A		5CC #15				
2CC #48	CA 25A-26A		No	3CC #48	CA 5A-2A-2A		No								
2CC #49	CA 25A-41A		No	3CC #49	CA 5A-4A-2A		No								
2CC #50	CA 26A-25A		No	3CC #50	CA 5A-2A-5A		No								
2CC #51	CA 26A-41A		No	3CC #51	CA 5A-2A-30A		No								
2CC #52	CA 30A-2A		3CC #75	3CC #52	CA 5A-2A-48A		No								
2CC #53	CA 30A-4A		3CC #76	3CC #53	CA 5A-48A-2A		No								
2CC #54	CA 30A-5A		3CC #77	3CC #54	CA 5A-2A-66A		No								
2CC #55	CA 30A-12A		3CC #78	3CC #55	CA 5A-66A-2A		No								
2CC #56	CA 30A-14A		No	3CC #56	CA 5B-4A		4CC #15								
2CC #57	CA 30A-66A		No	3CC #57	CA 5B-30A		4CC #16								
2CC #58	CA 41A-25A		No	3CC #58	CA 5A-48C		4CC #17								
2CC #59	CA 41A-26A		No	3CC #59	CA 5A-66B		4CC #18								
2CC #60	CA 41A-41A		No	3CC #60	CA 5A-66C		4CC #19								
2CC #61	CA 48A-2A		3CC #101	3CC #61	CA 5B-66A		4CC #23								
2CC #62	CA 48A-4A		No	3CC #62	CA 7A-4A-2A		No								
2CC #63	CA 48A-5A		3CC #101	3CC #63	CA 12A-2A-2A		No								
2CC #64	CA 48A-13A		No	3CC #64	CA 12A-4A-2A		No								
2CC #65	CA 48A-48A		No	3CC #65	CA 12A-2A-30A		No								
2CC #66	CA 48A-66A		No	3CC #66	CA 12A-66C		No								
2CC #67	CA 66A-2A		3CC #85	3CC #67	CA 13A-2A-2A		No								
2CC #68	CA 66A-5A		3CC #86	3CC #68	CA 13A-4A-2A		No								
2CC #69	CA 66A-12A		No	3CC #69	CA 13A-48C		No								
2CC #70	CA 66A-13A		No	3CC #70	CA 13A-66B		No								
2CC #71	CA 66A-14A		No	3CC #71	CA 13A-66C		No								
2CC #72	CA 66A-30A		No	3CC #72	CA 14A-2A-2A		No								
2CC #73	CA 66A-48A		No	3CC #73	CA 25A-41C		No								
2CC #74	CA 66A-66A		No	3CC #74	CA 26A-41C		No								
2CC #75	CA 66A-71A		No	3CC #75	CA 30A-2A-2A		No								
2CC #76	CA 71A-2A		3CC #98	3CC #76	CA 30A-4A-2A		No								
2CC #77	CA 71A-4A		3CC #99	3CC #77	CA 30A-5A-2A		No								
2CC #78	CA 71A-66A		No	3CC #78	CA 30A-12A-2A		No								
2CC #79	CA 2C		3CC #82	3CC #79	CA 30A-5B		4CC #28								
2CC #80	CA 5B		3CC #79	3CC #80	CA 41C-25A		No								
2CC #81	CA 7C		No	3CC #81	CA 41C-26A		No								
2CC #82	CA 38C		No	3CC #82	CA 66A-2C		No								
2CC #83	CA 41C		3CC #80	3CC #83	CA 66B-2A		4CC #29								
2CC #84	CA 48C		3CC #100	3CC #84	CA 66C-2A		4CC #30								
2CC #85	CA 66B		3CC #94	3CC #85	CA 66A-2A-2A		No								
2CC #86	CA 66C		3CC #95	3CC #86	CA 66A-5A-2A		No								
				3CC #87	CA 66B-5A		4CC #21								
				3CC #88	CA 66C-5A		4CC #32								
				3CC #89	CA 66A-5B		4CC #33								
				3CC #90	CA 66C-12A		No								
				3CC #91	CA 66B-13A		No								
				3CC #92	CA 66C-13A		No								
				3CC #93	CA 66C-66A		No								
				3CC #94	CA 66B-48A		No								
				3CC #95	CA 66C-48A		No								
				3CC #96	CA 66A-48C		No								
				3CC #97	CA 66A-66C		No								
				3CC #98	CA 71A-2A-2A		No								
				3CC #99	CA 71A-4A-2A		No								
				3CC #100	CA 48C-2A		4CC #43								
				3CC #101	CA 48A-5A-2A		No								
				3CC #102	CA 48C-4A		No								
				3CC #103	CA 48C-5A		4CC #43								
				3CC #104	CA 48C-13A		No								
				3CC #105	CA 48A-66B		No								
				3CC #106	CA 48A-66C		No								
				3CC #											

Note:

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

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5.5 LTE Intra-Band UL CA

CA_5B													
Combination 50RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	829	20450	1	49	10	QPSK	838.9	20549	1	0	0	23.44
10	QPSK	831.6	20476	1	49	10	QPSK	841.5	20575	1	0	0	23.58
10	QPSK	834.1	20501	1	49	10	QPSK	844	20600	1	0	0	23.49

CA_5B													
Combination 50RB + 25RB (10MHz + 5MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	829	20450	1	49	5	QPSK	836.2	20522	1	0	0	23.40
10	QPSK	834	20500	1	49	5	QPSK	841.2	20572	1	0	0	23.55
10	QPSK	839	20550	1	49	5	QPSK	846.2	20622	1	0	0	23.46

CA_7C													
Combination 100RB + 100RB (20MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
20	QPSK	2510	20850	1	99	20	QPSK	2529.8	21048	1	0	0	22.56
20	QPSK	2525.1	21001	1	99	20	QPSK	2544.9	21199	1	0	0	22.67
20	QPSK	2540.2	21152	1	99	20	QPSK	2560	21350	1	0	0	22.52

CA_7C													
Combination 75RB + 100RB (15MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	2507.8	20828	1	74	20	QPSK	2524.9	20999	1	0	0	22.55
15	QPSK	2525.3	21003	1	74	20	QPSK	2542.4	21174	1	0	0	22.65
15	QPSK	2560	21350	1	74	20	QPSK	2577.1	21521	1	0	0	22.51

CA_7C													
Combination 75RB + 75RB (15MHz + 15MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	15	QPSK	2522.5	20975	1	0	0	22.52
15	QPSK	2527.5	21025	1	74	15	QPSK	2542.5	21175	1	0	0	22.64
15	QPSK	2547.5	21225	1	74	15	QPSK	2562.5	21375	1	0	0	22.43

CA_7C													
Combination 75RB + 50RB (15MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	2507.5	20825	1	74	10	QPSK	2519.5	20945	1	0	0	22.51
15	QPSK	2530.1	21051	1	74	10	QPSK	2542.1	21171	1	0	0	22.60
15	QPSK	2552.7	21277	1	74	10	QPSK	2564.7	21397	1	0	0	22.38

CA_7C													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	2505.5	20805	1	49	20	QPSK	2519.9	20949	1	0	0	22.46
10	QPSK	2525.6	21006	1	49	20	QPSK	2540	21150	1	0	0	22.57
10	QPSK	2545.6	21206	1	49	20	QPSK	2560	21350	1	0	0	22.42

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CA_38C														
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	2580	37850	1	99	20	QPSK	2599.8	38048	1	0	0	22.88	24.00
20	QPSK	2585.1	37901	1	99	20	QPSK	2604.9	38099	1	0	0	23.01	24.00
20	QPSK	2590.2	37952	1	99	20	QPSK	2610	38150	1	0	0	22.93	24.00

CA_38C														
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	2577.5	37825	1	74	15	QPSK	2592.5	37975	1	0	0	22.81	24.00
15	QPSK	2587.5	37925	1	74	15	QPSK	2602.5	38075	1	0	0	22.99	24.00
15	QPSK	2597.5	38025	1	74	15	QPSK	2612.5	38175	1	0	0	22.83	24.00

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	23.06	24.00
20	QPSK	2583.1	40521	1	99	20	QPSK	2602.9	40719	1	0	0	23.11	24.00
20	QPSK	2660.2	41292	1	99	20	QPSK	2680	41490	1	0	0	23.09	24.00

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	23.03	24.00
15	QPSK	2583.3	40523	1	74	20	QPSK	2600.4	40694	1	0	0	23.08	24.00
15	QPSK	2662.9	41319	1	74	20	QPSK	2680	41490	1	0	0	23.08	24.00

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	22.99	24.00
15	QPSK	2585.5	40545	1	74	15	QPSK	2600.5	40695	1	0	0	23.05	24.00
15	QPSK	2667.5	41365	1	74	15	QPSK	2682.5	41515	1	0	0	23.05	24.00

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	22.97	24.00
10	QPSK	2583.6	40526	1	49	20	QPSK	2598	40670	1	0	0	23.03	24.00
10	QPSK	2665.6	41346	1	49	20	QPSK	2680	41490	1	0	0	23.02	24.00

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	22.94	24.00
10	QPSK	2585.9	40549	1	49	15	QPSK	2597.9	40669	1	0	0	23.00	24.00
10	QPSK	2670.5	41395	1	49	15	QPSK	2682.5	41515	1	0	0	22.97	24.00

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	22.86	24.00
5	QPSK	2583.8	40528	1	24	20	QPSK	2595.5	40645	1	0	0	22.92	24.00
5	QPSK	2668.3	41373	1	24	20	QPSK	2680	41490	1	0	0	22.91	24.00

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CA_48C													
Combination 100RB + 100RB (20MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
20	QPSK	3560	55340	1	99	20	QPSK	3579.8	55538	1	0	0	18.35
20	QPSK	3615.1	55891	1	99	20	QPSK	3634.9	56089	1	0	0	18.42
20	QPSK	3670.2	56442	1	99	20	QPSK	3690	56640	1	0	0	18.39

CA_48C													
Combination 75RB + 100RB (15MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	3557.8	55318	1	74	20	QPSK	3574.9	55489	1	0	0	18.33
15	QPSK	3615.3	55893	1	74	20	QPSK	3632.4	56064	1	0	0	18.39
15	QPSK	3672.9	56469	1	74	20	QPSK	3690	56640	1	0	0	18.32

CA_48C													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	3555.5	55295	1	49	20	QPSK	3569.9	55439	1	0	0	18.29
10	QPSK	3615.6	55896	1	49	20	QPSK	3630	56040	1	0	0	18.33
10	QPSK	3675.6	56496	1	49	20	QPSK	3690	56640	1	0	0	18.26

CA_48C													
Combination 25RB + 100RB (5MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
5	QPSK	3553.3	55273	1	24	20	QPSK	3565	55390	1	0	0	18.28
5	QPSK	3615.8	55898	1	24	20	QPSK	3627.5	56015	1	0	0	18.30
5	QPSK	3678.3	56523	1	24	20	QPSK	3690	56640	1	0	0	18.24

CA_66B													
Combination 50RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1715	132022	1	49	10	QPSK	1724.9	132121	1	0	0	22.95
10	QPSK	1750.1	132373	1	49	10	QPSK	1760	132472	1	0	0	23.07
10	QPSK	1765.1	132523	1	49	10	QPSK	1775	132622	1	0	0	22.94

CA_66B													
Combination 25RB + 75RB (5MHz + 15MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
5	QPSK	1713	132002	1	24	15	QPSK	1722.3	132095	1	0	0	22.94
5	QPSK	1748.1	132353	1	24	15	QPSK	1757.4	132446	1	0	0	23.02
5	QPSK	1763.2	132504	1	24	15	QPSK	1772.5	132597	1	0	0	22.90

CA_66B													
Combination 25RB + 50RB (5MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
5	QPSK	1712.8	132000	1	24	10	QPSK	1720	132072	1	0	0	22.85
5	QPSK	1750.3	132375	1	24	10	QPSK	1757.5	132447	1	0	0	22.96
5	QPSK	1767.8	132550	1	24	10	QPSK	1775	132622	1	0	0	22.87

CA_66B													
Combination 25RB + 25RB (5MHz + 5MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
5	QPSK	1712.5	131997	1	24	5	QPSK	1717.3	132045	1	0	0	22.78
5	QPSK	1752.6	132398	1	24	5	QPSK	1757.4	132446	1	0	0	22.94
5	QPSK	1772.7	132599	1	24	5	QPSK	1777.5	132647	1	0	0	22.85

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CA_66C													
Combination 100RB + 100RB (20MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
20	QPSK	1720	132072	1	99	20	QPSK	1739.8	132270	1	0	0	22.88
20	QPSK	1745.1	132323	1	99	20	QPSK	1764.9	132521	1	0	0	23.01
20	QPSK	1750.2	132374	1	99	20	QPSK	1770	132572	1	0	0	22.87

CA_66C													
Combination 75RB + 100RB (15MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	1717.8	132050	1	74	20	QPSK	1734.9	132221	1	0	0	22.83
15	QPSK	1745.3	132325	1	74	20	QPSK	1762.4	132496	1	0	0	22.97
15	QPSK	1752.9	132401	1	74	20	QPSK	1770	132572	1	0	0	22.84

CA_66C													
Combination 75RB + 75RB (15MHz + 15MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
15	QPSK	1717.5	132047	1	74	15	QPSK	1732.5	132197	1	0	0	22.80
15	QPSK	1747.5	132347	1	74	15	QPSK	1762.5	132497	1	0	0	22.94
15	QPSK	1757.5	132447	1	74	15	QPSK	1772.5	132597	1	0	0	22.77

CA_66C													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1715.5	132027	1	49	20	QPSK	1729.9	132171	1	0	0	22.76
10	QPSK	1745.6	132328	1	49	20	QPSK	1760	132472	1	0	0	22.90
10	QPSK	1755.6	132428	1	49	20	QPSK	1770	132572	1	0	0	22.71

CA_66C													
Combination 50RB + 75RB (10MHz + 15MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1715.3	132025	1	49	15	QPSK	1727.3	132145	1	0	0	22.72
10	QPSK	1747.9	132351	1	49	15	QPSK	1759.9	132471	1	0	0	22.84
10	QPSK	1760.5	132477	1	49	15	QPSK	1772.5	132597	1	0	0	22.69

CA_66C													
Combination 100RB + 25RB (20MHz + 5MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
20	QPSK	1720	132072	1	99	5	QPSK	1731.7	132189	1	0	0	22.67
20	QPSK	1752.5	132397	1	99	5	QPSK	1764.2	132514	1	0	0	22.78
20	QPSK	1765	132522	1	99	5	QPSK	1776.7	132639	1	0	0	22.64

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5.6 LTE Inter-Band UL CA

CA_2A-5A														
Combination 100RB + 50RB (20MHz + 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)
20	QPSK	1880	18900	1	0	10	QPSK	836.5	20525	1	0	0	22.59	24.00
20	QPSK	1880	18900	1	0	10	QPSK	836.5	20525	25	0	0	22.94	24.00
20	QPSK	1880	18900	1	0	10	QPSK	836.5	20525	50	0	0	22.78	24.00
20	QPSK	1880	18900	50	0	10	QPSK	836.5	20525	1	0	0	22.54	24.00
20	QPSK	1880	18900	50	0	10	QPSK	836.5	20525	25	0	0	22.91	24.00
20	QPSK	1880	18900	50	0	10	QPSK	836.5	20525	50	0	0	22.73	24.00
20	QPSK	1880	18900	100	0	10	QPSK	836.5	20525	1	0	0	22.49	24.00
20	QPSK	1880	18900	100	0	10	QPSK	836.5	20525	25	0	0	22.86	24.00
20	QPSK	1880	18900	100	0	10	QPSK	836.5	20525	50	0	0	22.70	24.00

CA_2A-12A														
Combination 100RB + 50RB (20MHz + 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)
20	QPSK	1880	18900	1	0	10	QPSK	707.5	23095	1	0	0	22.55	24.00
20	QPSK	1880	18900	1	0	10	QPSK	707.5	23095	25	0	0	22.91	24.00
20	QPSK	1880	18900	1	0	10	QPSK	707.5	23095	50	0	0	22.68	24.00
20	QPSK	1880	18900	50	0	10	QPSK	707.5	23095	1	0	0	22.53	24.00
20	QPSK	1880	18900	50	0	10	QPSK	707.5	23095	25	0	0	22.87	24.00
20	QPSK	1880	18900	50	0	10	QPSK	707.5	23095	50	0	0	22.66	24.00
20	QPSK	1880	18900	100	0	10	QPSK	707.5	23095	1	0	0	22.44	24.00
20	QPSK	1880	18900	100	0	10	QPSK	707.5	23095	25	0	0	22.78	24.00
20	QPSK	1880	18900	100	0	10	QPSK	707.5	23095	50	0	0	22.63	24.00

CA_2A-13A														
Combination 100RB + 50RB (20MHz + 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)
20	QPSK	1880	18900	1	0	10	QPSK	782	23230	1	0	0	22.54	24.00
20	QPSK	1880	18900	1	0	10	QPSK	782	23230	25	0	0	22.84	24.00
20	QPSK	1880	18900	1	0	10	QPSK	782	23230	50	0	0	22.65	24.00
20	QPSK	1880	18900	50	0	10	QPSK	782	23230	1	0	0	22.46	24.00
20	QPSK	1880	18900	50	0	10	QPSK	782	23230	25	0	0	22.77	24.00
20	QPSK	1880	18900	50	0	10	QPSK	782	23230	50	0	0	22.61	24.00
20	QPSK	1880	18900	100	0	10	QPSK	782	23230	1	0	0	22.42	24.00
20	QPSK	1880	18900	100	0	10	QPSK	782	23230	25	0	0	22.73	24.00
20	QPSK	1880	18900	100	0	10	QPSK	782	23230	50	0	0	22.55	24.00

CA_2A-14A														
Combination 100RB + 50RB (20MHz + 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)
20	QPSK	1880	18900	1	0	10	QPSK	793	23330	1	0	0	22.53	24.00
20	QPSK	1880	18900	1	0	10	QPSK	793	23330	25	0	0	22.80	24.00
20	QPSK	1880	18900	1	0	10	QPSK	793	23330	50	0	0	22.60	24.00
20	QPSK	1880	18900	50	0	10	QPSK	793	23330	1	0	0	22.37	24.00
20	QPSK	1880	18900	50	0	10	QPSK	793	23330	25	0	0	22.71	24.00
20	QPSK	1880	18900	50	0	10	QPSK	793	23330	50	0	0	22.56	24.00
20	QPSK	1880	18900	100	0	10	QPSK	793	23330	1	0	0	22.36	24.00
20	QPSK	1880	18900	100	0	10	QPSK	793	23330	25	0	0	22.70	24.00
20	QPSK	1880	18900	100	0	10	QPSK	793	23330	50	0	0	22.49	24.00

CA_2A-48A														
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	1880	18900	1	0	20	QPSK	3609	55830	1	0	0	22.49	24.00
20	QPSK	1880	18900	1	0	20	QPSK	3609	55830	50	0	0	22.71	24.00
20	QPSK	1880	18900	1	0	20	QPSK	3609	55830	100	0	0	22.57	24.00
20	QPSK	1880	18900	50	0	20	QPSK	3609	55830	1	0	0	22.28	24.00
20	QPSK	1880	18900	50	0	20	QPSK	3609	55830	50	0	0	22.61	24.00
20	QPSK	1880	18900	50	0	20	QPSK	3609	55830	100	0	0	22.54	24.00
20	QPSK	1880	18900	100	0	20	QPSK	3609	55830	1	0	0	22.27	24.00
20	QPSK	1880	18900	100	0	20	QPSK	3609	55830	50	0	0	22.64	24.00
20	QPSK	1880	18900	100	0	20	QPSK	3609	55830	100	0	0	22.42	24.00

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CA_4A-5A													
Combination 50RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1732.5	20175	1	0	10	QPSK	836.5	20525	1	0	0	23.48
10	QPSK	1732.5	20175	1	0	10	QPSK	836.5	20525	25	0	0	23.35
10	QPSK	1732.5	20175	1	0	10	QPSK	836.5	20525	50	0	0	23.31
10	QPSK	1732.5	20175	25	0	10	QPSK	836.5	20525	1	0	0	23.42
10	QPSK	1732.5	20175	25	0	10	QPSK	836.5	20525	25	0	0	23.28
10	QPSK	1732.5	20175	25	0	10	QPSK	836.5	20525	50	0	0	23.25
10	QPSK	1732.5	20175	50	0	10	QPSK	836.5	20525	1	0	0	23.35
10	QPSK	1732.5	20175	50	0	10	QPSK	836.5	20525	25	0	0	23.22
10	QPSK	1732.5	20175	50	0	10	QPSK	836.5	20525	50	0	0	23.19

CA_4A-12A													
Combination 50RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1732.5	20175	1	0	10	QPSK	707.5	23095	1	0	0	23.39
10	QPSK	1732.5	20175	1	0	10	QPSK	707.5	23095	25	0	0	23.31
10	QPSK	1732.5	20175	1	0	10	QPSK	707.5	23095	50	0	0	23.22
10	QPSK	1732.5	20175	25	0	10	QPSK	707.5	23095	1	0	0	23.35
10	QPSK	1732.5	20175	25	0	10	QPSK	707.5	23095	25	0	0	23.22
10	QPSK	1732.5	20175	25	0	10	QPSK	707.5	23095	50	0	0	23.20
10	QPSK	1732.5	20175	50	0	10	QPSK	707.5	23095	1	0	0	23.26
10	QPSK	1732.5	20175	50	0	10	QPSK	707.5	23095	25	0	0	23.13
10	QPSK	1732.5	20175	50	0	10	QPSK	707.5	23095	50	0	0	23.16

CA_4A-13A													
Combination 15RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	1732.5	20175	1	0	10	QPSK	782	23230	1	0	0	23.39
10	QPSK	1732.5	20175	1	0	10	QPSK	782	23230	25	0	0	23.22
10	QPSK	1732.5	20175	1	0	10	QPSK	782	23230	50	0	0	23.22
10	QPSK	1732.5	20175	25	0	10	QPSK	782	23230	1	0	0	23.26
10	QPSK	1732.5	20175	25	0	10	QPSK	782	23230	25	0	0	23.18
10	QPSK	1732.5	20175	25	0	10	QPSK	782	23230	50	0	0	23.19
10	QPSK	1732.5	20175	50	0	10	QPSK	782	23230	1	0	0	23.24
10	QPSK	1732.5	20175	50	0	10	QPSK	782	23230	25	0	0	23.12
10	QPSK	1732.5	20175	50	0	10	QPSK	782	23230	50	0	0	23.13

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CA_5A-7A													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	836.5	20525	1	0	20	QPSK	2535	21100	1	0	0	23.57
10	QPSK	836.5	20525	1	0	20	QPSK	2535	21100	50	0	0	23.74
10	QPSK	836.5	20525	1	0	20	QPSK	2535	21100	100	0	0	23.79
10	QPSK	836.5	20525	25	0	20	QPSK	2535	21100	1	0	0	23.50
10	QPSK	836.5	20525	25	0	20	QPSK	2535	21100	50	0	0	23.69
10	QPSK	836.5	20525	25	0	20	QPSK	2535	21100	100	0	0	23.72
10	QPSK	836.5	20525	50	0	20	QPSK	2535	21100	1	0	0	23.48
10	QPSK	836.5	20525	50	0	20	QPSK	2535	21100	50	0	0	23.66
10	QPSK	836.5	20525	50	0	20	QPSK	2535	21100	100	0	0	23.69

CA_5A-30A													
Combination 50RB + 50RB (10MHz + 10MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	836.5	20525	1	0	10	QPSK	2310	27710	1	0	0	23.49
10	QPSK	836.5	20525	1	0	10	QPSK	2310	27710	25	0	0	23.65
10	QPSK	836.5	20525	1	0	10	QPSK	2310	27710	50	0	0	23.71
10	QPSK	836.5	20525	25	0	10	QPSK	2310	27710	1	0	0	23.42
10	QPSK	836.5	20525	25	0	10	QPSK	2310	27710	25	0	0	23.62
10	QPSK	836.5	20525	25	0	10	QPSK	2310	27710	50	0	0	23.66
10	QPSK	836.5	20525	50	0	10	QPSK	2310	27710	1	0	0	23.47
10	QPSK	836.5	20525	50	0	10	QPSK	2310	27710	25	0	0	23.63
10	QPSK	836.5	20525	50	0	10	QPSK	2310	27710	50	0	0	23.68

CA_5A-48A													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	836.5	20525	1	0	20	QPSK	3609	55830	1	0	0	23.43
10	QPSK	836.5	20525	1	0	20	QPSK	3609	55830	50	0	0	23.55
10	QPSK	836.5	20525	1	0	20	QPSK	3609	55830	100	0	0	23.62
10	QPSK	836.5	20525	25	0	20	QPSK	3609	55830	1	0	0	23.40
10	QPSK	836.5	20525	25	0	20	QPSK	3609	55830	50	0	0	23.61
10	QPSK	836.5	20525	25	0	20	QPSK	3609	55830	100	0	0	23.59
10	QPSK	836.5	20525	50	0	20	QPSK	3609	55830	1	0	0	23.47
10	QPSK	836.5	20525	50	0	20	QPSK	3609	55830	50	0	0	23.58
10	QPSK	836.5	20525	50	0	20	QPSK	3609	55830	100	0	0	23.66

CA_5A-66A													
Combination 50RB + 100RB (10MHz + 20MHz)													
PCC						SCC						UL CA power	
Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	Bandwidth [MHz]	Modulation	Frequency [MHz]	Channel	RB size	RB Offset	MPR (dB)	Tune-up limit (dBm)
10	QPSK	836.5	20525	1	0	20	QPSK	1745	132322	1	0	0	23.34
10	QPSK	836.5	20525	1	0	20	QPSK	1745	132322	50	0	0	23.48
10	QPSK	836.5	20525	1	0	20	QPSK	1745	132322	100	0	0	23.59
10	QPSK	836.5	20525	25	0	20	QPSK	1745	132322	1	0	0	23.31
10	QPSK	836.5	20525	25	0	20	QPSK	1745	132322	50	0	0	23.52
10	QPSK	836.5	20525	25	0	20	QPSK	1745	132322	100	0	0	23.49
10	QPSK	836.5	20525	50	0	20	QPSK	1745	132322	1	0	0	23.46
10	QPSK	836.5	20525	50	0	20	QPSK	1745	132322	50	0	0	23.57
10	QPSK	836.5	20525	50	0	20	QPSK	1745	132322	100	0	0	23.64

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CA_12A-30A														
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	707.5	23095	1	0	10	QPSK	2310	27710	1	0	0	23.05	24.00
10	QPSK	707.5	23095	1	0	10	QPSK	2310	27710	25	0	0	23.00	24.00
10	QPSK	707.5	23095	1	0	10	QPSK	2310	27710	50	0	0	22.97	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	2310	27710	1	0	0	22.99	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	2310	27710	25	0	0	22.96	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	2310	27710	50	0	0	22.93	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	2310	27710	1	0	0	22.89	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	2310	27710	25	0	0	22.85	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	2310	27710	50	0	0	22.81	24.00

CA_12A-66A														
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	707.5	23095	1	0	10	QPSK	1745	132322	1	0	0	22.96	24.00
10	QPSK	707.5	23095	1	0	10	QPSK	1745	132322	25	0	0	22.93	24.00
10	QPSK	707.5	23095	1	0	10	QPSK	1745	132322	50	0	0	22.85	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	1745	132322	1	0	0	22.88	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	1745	132322	25	0	0	22.84	24.00
10	QPSK	707.5	23095	25	0	10	QPSK	1745	132322	50	0	0	22.81	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	1745	132322	1	0	0	22.79	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	1745	132322	25	0	0	22.73	24.00
10	QPSK	707.5	23095	50	0	10	QPSK	1745	132322	50	0	0	22.71	24.00

CA_13A-48A														
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
10	QPSK	782	23230	1	0	20	QPSK	3609	55830	1	0	0	22.80	24.00
10	QPSK	782	23230	1	0	20	QPSK	3609	55830	50	0	0	22.94	24.00
10	QPSK	782	23230	1	0	20	QPSK	3609	55830	100	0	0	22.74	24.00
10	QPSK	782	23230	25	0	20	QPSK	3609	55830	1	0	0	22.76	24.00
10	QPSK	782	23230	25	0	20	QPSK	3609	55830	50	0	0	22.91	24.00
10	QPSK	782	23230	25	0	20	QPSK	3609	55830	100	0	0	22.68	24.00
10	QPSK	782	23230	50	0	20	QPSK	3609	55830	1	0	0	22.69	24.00
10	QPSK	782	23230	50	0	20	QPSK	3609	55830	50	0	0	22.77	24.00
10	QPSK	782	23230	50	0	20	QPSK	3609	55830	100	0	0	22.60	24.00

CA_13A-66A														
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	782	23230	1	0	20	QPSK	1745	132322	1	0	0	22.71	24.00
10	QPSK	782	23230	1	0	20	QPSK	1745	132322	50	0	0	22.89	24.00
10	QPSK	782	23230	1	0	20	QPSK	1745	132322	100	0	0	22.67	24.00
10	QPSK	782	23230	25	0	20	QPSK	1745	132322	1	0	0	22.69	24.00
10	QPSK	782	23230	25	0	20	QPSK	1745	132322	50	0	0	22.87	24.00
10	QPSK	782	23230	25	0	20	QPSK	1745	132322	100	0	0	22.64	24.00
10	QPSK	782	23230	50	0	20	QPSK	1745	132322	1	0	0	22.62	24.00
10	QPSK	782	23230	50	0	20	QPSK	1745	132322	50	0	0	22.68	24.00
10	QPSK	782	23230	50	0	20	QPSK	1745	132322	100	0	0	22.55	24.00

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CA_14A-30A														
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	793	23330	1	0	10	QPSK	2310	27710	1	0	0	22.89	24.00
10	QPSK	793	23330	1	0	10	QPSK	2310	27710	25	0	0	22.94	24.00
10	QPSK	793	23330	1	0	10	QPSK	2310	27710	50	0	0	22.77	24.00
10	QPSK	793	23330	25	0	10	QPSK	2310	27710	1	0	0	22.83	24.00
10	QPSK	793	23330	25	0	10	QPSK	2310	27710	25	0	0	22.92	24.00
10	QPSK	793	23330	25	0	10	QPSK	2310	27710	50	0	0	22.72	24.00
10	QPSK	793	23330	50	0	10	QPSK	2310	27710	1	0	0	22.73	24.00
10	QPSK	793	23330	50	0	10	QPSK	2310	27710	25	0	0	22.86	24.00
10	QPSK	793	23330	50	0	10	QPSK	2310	27710	50	0	0	22.70	24.00

CA_14A-66A														
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	793	23330	1	0	20	QPSK	1745	132322	1	0	0	22.82	24.00
10	QPSK	793	23330	1	0	20	QPSK	1745	132322	50	0	0	22.88	24.00
10	QPSK	793	23330	1	0	20	QPSK	1745	132322	100	0	0	22.70	24.00
10	QPSK	793	23330	25	0	20	QPSK	1745	132322	1	0	0	22.74	24.00
10	QPSK	793	23330	25	0	20	QPSK	1745	132322	50	0	0	22.80	24.00
10	QPSK	793	23330	25	0	20	QPSK	1745	132322	100	0	0	22.59	24.00
10	QPSK	793	23330	50	0	20	QPSK	1745	132322	1	0	0	22.60	24.00
10	QPSK	793	23330	50	0	20	QPSK	1745	132322	50	0	0	22.79	24.00
10	QPSK	793	23330	50	0	20	QPSK	1745	132322	100	0	0	22.61	24.00

CA_25A-26A														
Combination 100RB + 75RB (20MHz + 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)
20	QPSK	1882.5	26365	1	0	20	QPSK	831.5	26865	1	0	0	22.93	24.00
20	QPSK	1882.5	26365	1	0	20	QPSK	831.5	26865	36	0	0	22.99	24.00
20	QPSK	1882.5	26365	1	0	20	QPSK	831.5	26865	75	0	0	22.54	24.00
20	QPSK	1882.5	26365	50	0	20	QPSK	831.5	26865	1	0	0	22.89	24.00
20	QPSK	1882.5	26365	50	0	20	QPSK	831.5	26865	36	0	0	22.92	24.00
20	QPSK	1882.5	26365	50	0	20	QPSK	831.5	26865	75	0	0	22.50	24.00
20	QPSK	1882.5	26365	100	0	20	QPSK	831.5	26865	1	0	0	22.81	24.00
20	QPSK	1882.5	26365	100	0	20	QPSK	831.5	26865	36	0	0	22.85	24.00
20	QPSK	1882.5	26365	100	0	20	QPSK	831.5	26865	75	0	0	22.48	24.00

CA_48A-66A														
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	3609	55830	1	0	20	QPSK	1745	132322	1	0	0	18.29	19.00
20	QPSK	3609	55830	1	0	20	QPSK	1745	132322	50	0	0	18.37	19.00
20	QPSK	3609	55830	1	0	20	QPSK	1745	132322	100	0	0	18.34	19.00
20	QPSK	3609	55830	50	0	20	QPSK	1745	132322	1	0	0	18.19	19.00
20	QPSK	3609	55830	50	0	20	QPSK	1745	132322	50	0	0	18.34	19.00
20	QPSK	3609	55830	50	0	20	QPSK	1745	132322	100	0	0	18.30	19.00
20	QPSK	3609	55830	100	0	20	QPSK	1745	132322	1	0	0	18.12	19.00
20	QPSK	3609	55830	100	0	20	QPSK	1745	132322	50	0	0	18.32	19.00
20	QPSK	3609	55830	100	0	20	QPSK	1745	132322	100	0	0	18.27	19.00

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5.7 FDD NR

ANT5

5G NR n2_15kHz								
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				372000	376000	380000		
20	Pi/2 BPSK	1	1	23.22	23.25	23.49	24.00	0.0
		1	53	23.44	23.36	23.33	24.00	0.0
		1	104	23.42	23.32	23.28	24.00	0.0
		50	0	22.39	22.39	22.23	23.50	0.5
		50	28	23.33	23.22	23.47	24.00	0.0
		50	56	22.29	22.27	22.24	23.50	0.5
		100	0	22.23	22.46	22.31	23.50	0.5
	QPSK	1	1	23.44	23.43	23.42	24.00	0.0
		1	53	23.28	23.32	23.43	24.00	0.0
		1	104	23.22	23.36	23.30	24.00	0.0
		50	0	22.80	22.81	22.91	23.00	1.0
		50	28	23.32	23.27	23.40	24.00	0.0
		50	56	22.81	22.77	22.82	23.00	1.0
		100	0	22.86	22.72	22.86	23.00	1.0
	16-QAM	1	1	22.44	22.41	22.37	23.00	1.0
	64QAM	1	1	20.90	20.99	20.97	21.50	2.5
	256-QAM	1	1	18.92	18.82	18.85	19.50	4.5
5G NR n2_15kHz								
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				371500	376000	380500		
15	Pi/2 BPSK	1	1	23.46	23.42	23.43	24.00	0.0

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5G NR n2_15kHz								
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				371000	376000	381000		
10	Pi/2 BPSK	1	1	23.39	23.45	23.37	24.00	0.0
5G NR n2_15kHz								
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				370500	376000	381500		
5	Pi/2 BPSK	1	1	23.45	23.33	23.37	24.00	0.0

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5G NR n5_15kHz								
Channel	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				834	836.5	839		
Channel				166800	167300	167800		
20	Pi/2 BPSK	1	1	23.88	23.90	23.88	24.00	0.0
		1	53	23.84	23.84	23.81	24.00	0.0
		1	104	23.74	23.76	23.81	24.00	0.0
		50	0	22.77	22.74	22.87	23.50	0.5
		50	28	23.69	23.87	23.76	24.00	0.0
		50	56	22.89	22.73	22.82	23.50	0.5
		100	0	22.73	22.91	22.74	23.50	0.5
	QPSK	1	1	23.79	23.81	23.77	24.00	0.0
		1	53	23.81	23.76	23.89	24.00	0.0
		1	104	23.80	23.82	23.89	24.00	0.0
		50	0	22.58	22.54	22.69	23.00	1.0
		50	28	23.87	23.78	23.81	24.00	0.0
		50	56	22.61	22.63	22.70	23.00	1.0
		100	0	22.59	22.55	22.56	23.00	1.0
	16-QAM	1	1	22.90	22.89	22.77	23.00	1.0
	64QAM	1	1	21.39	21.31	21.33	21.50	2.5
	256-QAM	1	1	19.44	19.42	19.27	19.50	4.5
5G NR n5_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				831.5	836.5	841.5		
Channel				166300	167300	168300		
15	Pi/2 BPSK	1	1	23.77	23.89	23.84	24.00	0.0
5G NR n5_15kHz								
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				166300	167300	168800		
10	Pi/2 BPSK	1	1	23.84	23.88	23.81	24.00	0.0

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5G NR n5_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				826.5	836.5	846.5		
Channel				165300	167300	169300		
5	Pi/2 BPSK	1	1	23.88	23.85	23.80	24.00	0.0

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5G NR n7_15kHz								
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				502000	507000	512000		
20	Pi/2 BPSK	1	1	23.45	23.76	23.77	24.00	0.0
		1	53	23.72	23.59	23.71	24.00	0.0
		1	104	23.73	23.71	23.65	24.00	0.0
		50	0	22.55	22.59	22.65	23.50	0.5
		50	28	23.72	23.68	23.68	24.00	0.0
		50	56	22.54	22.66	22.58	23.50	0.5
		100	0	22.71	22.73	22.57	23.50	0.5
	QPSK	1	1	23.74	23.71	23.58	24.00	0.0
		1	53	23.58	23.72	23.63	24.00	0.0
		1	104	23.59	23.59	23.68	24.00	0.0
		50	0	22.63	22.55	22.61	23.00	1.0
		50	28	23.58	23.68	23.70	24.00	0.0
		50	56	22.56	22.59	22.61	23.00	1.0
		100	0	22.52	22.57	22.60	23.00	1.0
	16-QAM	1	1	22.69	22.74	22.79	23.00	1.0
	64QAM	1	1	21.26	21.19	21.23	21.50	2.5
	256-QAM	1	1	19.12	19.30	19.24	19.50	4.5
5G NR n7_15kHz								
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				501500	507000	512500		
15	Pi/2 BPSK	1	1	23.76	23.66	23.62	24.00	0.0
5G NR n7_15kHz								
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				501000	507000	513000		
10	Pi/2 BPSK	1	1	23.71	23.68	23.66	24.00	0.0

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5G NR n7_15kHz								
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				500500	507000	513500		
5	Pi/2 BPSK	1	1	23.65	23.67	23.62	24.00	0.0

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5G NR n25_15kHz								
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				372000	376500	381000		
20	Pi/2 BPSK	1	1	23.82	23.85	23.88	24.00	0.0
		1	53	23.66	23.70	23.67	24.00	0.0
		1	104	23.64	23.74	23.79	24.00	0.0
		50	0	22.71	22.77	22.56	23.50	0.5
		50	28	23.65	23.77	23.70	24.00	0.0
		50	56	22.67	22.59	22.74	23.50	0.5
		100	0	22.71	22.58	22.71	23.50	0.5
	QPSK	1	1	23.66	23.73	23.61	24.00	0.0
		1	53	23.60	23.65	23.60	24.00	0.0
		1	104	23.58	23.61	23.72	24.00	0.0
		50	0	22.58	22.60	22.64	23.00	1.0
		50	28	23.62	23.64	23.56	24.00	0.0
		50	56	22.50	22.59	22.63	23.00	1.0
		100	0	22.49	22.46	22.56	23.00	1.0
	16-QAM	1	1	22.66	22.61	22.60	23.00	1.0
	64QAM	1	1	21.26	21.15	21.19	21.50	2.5
	256-QAM	1	1	19.28	19.26	19.11	19.50	4.5
5G NR n25_15kHz								
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				371500	376500	381500		
15	Pi/2 BPSK	1	1	23.62	23.65	23.75	24.00	0.0
5G NR n25_15kHz								
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				371000	376500	382000		
10	Pi/2 BPSK	1	1	23.74	23.64	23.65	24.00	0.0

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5G NR n25_15kHz								
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				370500	376500	382500		
5	Pi/2 BPSK	1	1	23.68	23.66	23.78	24.00	0.0

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5G NR n30_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					2310			
Channel					462000			
10	Pi/2 BPSK	1	1		23.61		24.00	0.0
		1	25		23.61		24.00	0.0
		1	49		23.43		24.00	0.0
		50	0		22.59		23.50	0.5
		50	12		23.56		24.00	0.0
		50	25		22.43		23.50	0.5
		100	0		22.53		23.50	0.5
	QPSK	1	1		23.55		24.00	0.0
		1	25		23.47		24.00	0.0
		1	49		23.51		24.00	0.0
		50	0		22.52		23.00	1.0
		50	12		23.48		24.00	0.0
		50	25		22.46		23.00	1.0
		100	0		22.54		23.00	1.0
	16-QAM	1	1		22.57		23.00	1.0
	64QAM	1	1		21.02		21.50	2.5
	256-QAM	1	1		19.05		19.50	4.5

5G NR n30_15kHz								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					2310			
Channel					462000			
5	Pi/2 BPSK	1	1		23.53		24.00	0.0

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5G NR n66_15kHz								
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				344000	349000	354000		
20	Pi/2 BPSK	1	1	23.56	23.69	23.68	24.00	0.0
		1	53	23.49	23.50	23.42	24.00	0.0
		1	104	23.55	23.52	23.61	24.00	0.0
		50	0	22.54	22.67	22.63	23.50	0.5
		50	28	23.60	23.66	23.48	24.00	0.0
		50	56	22.48	22.53	22.46	23.50	0.5
		100	0	22.51	22.43	22.47	23.50	0.5
	QPSK	1	1	23.53	23.51	23.61	24.00	0.0
		1	53	23.58	23.48	23.61	24.00	0.0
		1	104	23.53	23.64	23.43	24.00	0.0
		50	0	22.83	22.72	22.68	23.00	1.0
		50	28	23.60	23.63	23.60	24.00	0.0
		50	56	22.63	22.61	22.55	23.00	1.0
		100	0	22.48	22.45	22.53	23.00	1.0
	16-QAM	1	1	22.66	22.58	22.65	23.00	1.0
	64QAM	1	1	21.19	21.01	21.05	21.50	2.5
	256-QAM	1	1	19.01	19.10	19.08	19.50	4.5
5G NR n66_15kHz								
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				343500	349000	354500		
15	Pi/2 BPSK	1	1	23.62	23.65	23.51	24.00	0.0

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5G NR n66_15kHz								
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				343000	349000	355000		
10	Pi/2 BPSK	1	1	23.51	23.68	23.53	24.00	0.0
5G NR n66_15kHz								
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				342500	349000	355500		
5	Pi/2 BPSK	1	1	23.64	23.62	23.59	24.00	0.0

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5G NR n71_15kHz								
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				134600	136100	137600		
20	Pi/2 BPSK	1	1	23.53	23.67	23.58	24.00	0.0
		1	53	23.46	23.49	23.42	24.00	0.0
		1	104	23.50	23.43	23.53	24.00	0.0
		50	0	22.44	22.58	22.63	23.50	0.5
		50	28	23.59	23.65	23.44	24.00	0.0
		50	56	22.39	22.48	22.45	23.50	0.5
		100	0	22.49	22.43	22.45	23.50	0.5
	QPSK	1	1	23.53	23.47	23.59	24.00	0.0
		1	53	23.55	23.39	23.57	24.00	0.0
		1	104	23.52	23.58	23.40	24.00	0.0
		50	0	22.83	22.72	22.65	23.00	1.0
		50	28	23.57	23.60	23.56	24.00	0.0
		50	56	22.62	22.59	22.55	23.00	1.0
		100	0	22.41	22.45	22.51	23.00	1.0
	16-QAM	1	1	22.75	22.56	22.63	23.00	1.0
	64QAM	1	1	21.19	21.13	21.20	21.50	2.5
	256-QAM	1	1	19.10	19.25	19.19	19.50	4.5
5G NR n71_15kHz								
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				134100	136100	138100		
15	Pi/2 BPSK	1	1	23.61	23.64	23.63	24.00	0.0
5G NR n71_15kHz								
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				133600	136100	138600		
10	Pi/2 BPSK	1	1	23.59	23.62	23.52	24.00	0.0

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5G NR n71_15kHz								
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				133100	136100	139100		
5	Pi/2 BPSK	1	1	23.57	23.60	23.50	24.00	0.0

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ANT8

5G NR n2_15kHz								
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				372000	376000	380000		
20	Pi/2 BPSK	1	1	22.79	22.54	22.65	23.50	0.0
		1	53	22.30	22.39	22.54	23.50	0.0
		1	104	22.33	22.28	22.49	23.50	0.0
		50	0	21.38	21.42	22.41	23.00	0.5
		50	28	22.34	22.34	22.57	23.50	0.0
		50	56	21.44	21.26	22.43	23.00	0.5
		100	0	21.33	21.36	21.40	23.00	0.5
	QPSK	1	1	22.34	22.25	22.40	23.50	0.0
		1	53	22.44	22.46	22.40	23.50	0.0
		1	104	22.32	22.47	22.35	23.50	0.0
		50	0	21.90	21.90	21.81	22.50	1.0
		50	28	22.32	22.32	22.31	23.50	0.0
		50	56	21.95	21.84	21.84	22.50	1.0
		100	0	21.78	21.90	21.92	22.50	1.0
	16-QAM	1	1	21.41	21.36	21.30	22.50	1.0
	64QAM	1	1	19.85	19.85	19.95	21.00	2.5
	256-QAM	1	1	17.92	17.83	17.90	19.00	4.5
5G NR n2_15kHz								
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				371500	376000	380500		
15	Pi/2 BPSK	1	1	22.38	22.45	22.36	23.50	0.0
5G NR n2_15kHz								
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				371000	376000	381000		
10	Pi/2 BPSK	1	1	22.38	22.38	22.36	23.50	0.0

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5G NR n2_15kHz								
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				370500	376000	381500		
5	Pi/2 BPSK	1	1	22.39	22.35	22.47	23.50	0.0

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5G NR n66_15kHz								
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				344000	349000	354000		
20	Pi/2 BPSK	1	1	22.80	22.60	22.56	23.00	0.0
		1	53	22.78	22.74	22.57	23.00	0.0
		1	104	22.64	22.62	22.65	23.00	0.0
		50	0	21.78	21.75	21.69	22.50	0.5
		50	28	22.71	22.61	22.73	23.00	0.0
		50	56	21.65	21.71	21.57	22.50	0.5
		100	0	21.66	21.72	21.66	22.50	0.5
	QPSK	1	1	22.72	22.79	22.56	23.00	0.0
		1	53	22.64	22.74	22.62	23.00	0.0
		1	104	22.73	22.75	22.65	23.00	0.0
		50	0	21.72	21.63	21.51	22.00	1.0
		50	28	22.64	22.59	22.66	23.00	0.0
		50	56	21.49	21.42	21.47	22.00	1.0
		100	0	21.53	21.47	21.46	22.00	1.0
	16-QAM	1	1	21.69	21.71	21.68	22.00	1.0
	64QAM	1	1	20.24	20.15	20.10	20.50	2.5
	256-QAM	1	1	18.14	18.27	18.12	18.50	4.5
5G NR n66_15kHz								
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				343500	349000	354500		
15	Pi/2 BPSK	1	1	22.59	22.61	22.62	23.00	0.0
5G NR n66_15kHz								
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				343000	349000	355000		
10	Pi/2 BPSK	1	1	22.68	22.63	22.66	23.00	0.0

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5G NR n66_15kHz								
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				342500	349000	355500		
5	Pi/2 BPSK	1	1	22.70	22.66	22.63	23.00	0.0

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5.8 TDD NR

ANT5

5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.81	22.62	22.73	24.00	0.0
		1	26	22.69	22.71	22.61	24.00	0.0
		1	49	22.51	22.71	22.61	24.00	0.0
		25	0	22.75	22.75	22.71	23.50	0.5
		25	13	22.71	22.69	22.70	24.00	0.0
		25	26	22.75	21.68	21.57	23.50	0.5
		50	0	22.78	21.58	21.62	23.50	0.5
	QPSK	1	1	22.69	22.63	22.61	24.00	0.0
		1	26	22.55	22.53	22.54	24.00	0.0
		1	49	22.56	22.58	22.66	24.00	0.0
		25	0	22.20	22.08	22.13	23.00	1.0
		25	13	22.56	22.62	22.69	24.00	0.0
		25	26	22.12	22.19	22.14	23.00	1.0
		50	0	22.05	22.10	22.02	23.00	1.0
	16-QAM	1	1	21.71	21.65	21.70	23.00	1.0
	64QAM	1	1	20.25	20.11	20.23	21.50	2.5
	256-QAM	1	1	18.18	18.16	18.26	19.50	4.5
5G NR n38_30kHz								
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				515500	519000	522500		
15	Pi/2 BPSK	1	1	22.64	22.62	22.70	24.00	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	22.64	22.73	22.67	24.00	0.0

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ULMIMO

5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	CP-OFDM QPSK	1	0	17.60	17.56	17.59	18.00	1.5
		1	137	17.53	17.52	17.54	18.00	1.5
		1	272	17.58	17.50	17.49	18.00	1.5
		135	0	17.51	17.47	17.59	18.00	1.5
		137	68	17.57	17.53	17.51	18.00	1.5
		135	138	17.51	17.50	17.57	18.00	1.5
		273	0	16.06	16.07	16.07	16.50	3.0
	16-QAM	1	1	17.03	17.05	17.08	17.50	2.0
	64QAM	1	1	15.52	15.60	15.53	16.00	3.5
	256-QAM	1	1	12.60	12.58	12.50	13.00	6.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	CP-OFDM QPSK	1	0	17.53	17.52	17.49	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	CP-OFDM QPSK	1	0	17.56	17.52	17.58	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	CP-OFDM QPSK	1	0	17.52	17.46	17.58	18.00	1.5

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5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	CP-OFDM QPSK	1	0	17.57	17.47	17.59	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	CP-OFDM QPSK	1	0	17.58	17.47	17.51	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	CP-OFDM QPSK	1	0	17.53	17.54	17.52	18.00	1.5

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5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	CP-OFDM QPSK	1	0	20.55	20.59	20.58	21.00	1.5
		1	137	20.52	20.53	20.56	21.00	1.5
		1	272	20.35	20.48	20.53	21.00	1.5
		135	0	20.53	20.53	20.57	21.00	1.5
		137	68	20.47	20.40	20.53	21.00	1.5
		135	138	20.50	20.40	20.57	21.00	1.5
		273	0	19.04	19.07	19.09	19.50	3.0
	16-QAM	1	1	20.04	20.09	20.10	20.50	2.0
	64QAM	1	1	18.56	18.56	18.55	19.00	3.5
	256-QAM	1	1	15.55	15.58	15.58	16.00	6.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	CP-OFDM QPSK	1	0	20.46	20.57	20.54	21.00	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	CP-OFDM QPSK	1	0	20.54	20.49	20.49	21.00	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	CP-OFDM QPSK	1	0	20.51	20.56	20.51	21.00	1.5

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5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	CP-OFDM QPSK	1	0	20.50	20.54	20.52	21.00	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	CP-OFDM QPSK	1	0	20.49	20.53	20.53	21.00	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	CP-OFDM QPSK	1	0	20.45	20.57	20.53	21.00	1.5

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5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				650000	653000	656000	659000	662000		
100	CP-OFDM QPSK	1	0	17.58	17.54	17.60	17.57	17.56	18.00	1.5
		1	137	17.53	17.51	17.50	17.55	17.54	18.00	1.5
		1	272	17.57	17.52	17.58	17.56	17.50	18.00	1.5
		135	0	17.51	17.45	17.50	17.50	17.48	18.00	1.5
		137	68	17.51	17.43	17.55	17.56	17.47	18.00	1.5
		135	138	17.57	17.46	17.59	17.47	17.38	18.00	1.5
		273	0	16.07	16.00	16.05	16.02	16.04	16.50	3.0
	16-QAM	1	1	17.03	17.07	17.04	17.06	17.08	17.50	2.0
	64QAM	1	1	15.57	15.53	15.53	15.58	15.54	16.00	3.5
	256-QAM	1	1	12.51	12.58	12.56	12.59	12.55	13.00	6.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649666	652834	656000	659166	662334		
90	CP-OFDM QPSK	1	0	17.57	17.51	17.52	17.49	17.52	18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649334	652666	656000	659334	662666		
80	CP-OFDM QPSK	1	0	17.55	17.49	17.54	17.56	17.48	18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				648666	652334	656000	659666	663334		
60	CP-OFDM QPSK	1	0	17.57	17.50	17.55	17.50	17.54	18.00	1.5

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5G NR n77_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99	18.00	1.5
Channel				648334	652166	656000	659834	663666		
50	CP-OFDM QPSK	1	0	17.57	17.48	17.58	17.53	17.55	18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960	18.00	1.5
Channel				648000	652000	656000	660000	664000		
40	CP-OFDM QPSK	1	0	17.55	17.45	17.55	17.47	17.53	18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99	18.00	1.5
Channel				647334	651666	656000	660266	664666		
20	CP-OFDM QPSK	1	0	17.50	17.53	17.50	17.50	17.55	18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840			18.00	1.5
Channel						656000				
15	CP-OFDM QPSK	1	0			17.55			18.00	1.5

5G NR n77_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840			18.00	1.5
Channel						656000				
10	CP-OFDM QPSK	1	0			17.56			18.00	1.5

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5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930		
Channel				650000	653000	656000	659000	662000		
100	CP-OFDM QPSK	1	0	20.57	20.58	20.60	20.54	20.52	21.00	1.5
		1	137	20.54	20.56	20.58	20.48	20.51	21.00	1.5
		1	272	20.53	20.52	20.57	20.47	20.42	21.00	1.5
		135	0	20.54	20.53	20.58	20.53	20.49	21.00	1.5
		137	68	20.53	20.52	20.53	20.49	20.50	21.00	1.5
		135	138	20.56	20.49	20.52	20.38	20.51	21.00	1.5
		273	0	19.08	19.07	19.07	19.03	19.09	19.50	3.0
	16-QAM	1	1	20.08	20.02	20.02	20.04	20.04	20.50	2.0
	64QAM	1	1	18.53	18.55	18.53	18.50	18.50	19.00	3.5
	256-QAM	1	1	15.53	15.52	15.57	15.60	15.50	16.00	6.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01		
Channel				649666	652834	656000	659166	662334		
90	CP-OFDM QPSK	1	0	20.57	20.51	20.57	20.52	20.46	21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99		
Channel				649334	652666	656000	659334	662666		
80	CP-OFDM QPSK	1	0	20.56	20.50	20.51	20.47	20.48	21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01		
Channel				648666	652334	656000	659666	663334		
60	CP-OFDM QPSK	1	0	20.55	20.56	20.57	20.51	20.46	21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99		
Channel				648334	652166	656000	659834	663666		
50	CP-OFDM QPSK	1	0	20.51	20.54	20.55	20.51	20.42	21.00	1.5

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5G NR n77_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960		
Channel				648000	652000	656000	660000	664000		
40	CP-OFDM QPSK	1	0	20.55	20.53	20.54	20.47	20.43	21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99		
Channel				647334	651666	656000	660266	664666		
20	CP-OFDM QPSK	1	0	20.48	20.58	20.58	20.46	20.46	21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
15	CP-OFDM QPSK	1	0			20.55			21.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
10	CP-OFDM QPSK	1	0			20.51			21.00	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	CP-OFDM QPSK	1	0		17.56		18.00	1.5
		1	137		17.50		18.00	1.5
		1	272		17.51		18.00	1.5
		135	0		17.50		18.00	1.5
		137	68		17.53		18.00	1.5
		135	138		17.52		18.00	1.5
		273	0		16.08		16.50	3.0
	16-QAM	1	1		17.10		17.50	2.0
	64QAM	1	1		15.57		16.00	3.5
	256-QAM	1	1		12.58		13.00	6.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	CP-OFDM QPSK	1	0	17.46	17.46	17.53	18.00	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	CP-OFDM QPSK	1	0	17.53	17.46	17.49	18.00	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	CP-OFDM QPSK	1	0	17.46	17.53	17.53	18.00	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	CP-OFDM QPSK	1	0	17.54	17.50	17.47	18.00	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	CP-OFDM QPSK	1	0	17.54	17.53	17.49	18.00	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	CP-OFDM QPSK	1	0	17.48	17.55	17.46	18.00	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	CP-OFDM QPSK	1	0	17.49	17.53	17.49	18.00	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3455.01	3499.995	3544.995		
Channel				630334	633333	636333		
10	CP-OFDM QPSK	1	0	17.55	17.54	17.47	18.00	1.5

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5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	Pi/2 BPSK	1	0		20.52		21.00	1.5
		1	137		20.50		21.00	1.5
		1	272		20.51		21.00	1.5
		135	0		20.49		21.00	1.5
		137	68		20.51		21.00	1.5
		135	138		20.37		21.00	1.5
		273	0		19.03		19.50	3.0
	16-QAM	1	1		20.01		20.50	2.0
	64QAM	1	1		18.59		19.00	3.5
	256-QAM	1	1		15.59		16.00	6.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	Pi/2 BPSK	1	0	20.46	20.46	20.49	21.00	1.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	Pi/2 BPSK	1	0	20.49	20.42	20.49	21.00	1.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	Pi/2 BPSK	1	0	20.48	20.50	20.48	21.00	1.5

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5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	Pi/2 BPSK	1	0	20.51	20.48	20.45	21.00	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	Pi/2 BPSK	1	0	20.47	20.49	20.45	21.00	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	Pi/2 BPSK	1	0	20.43	20.50	20.42	21.00	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	Pi/2 BPSK	1	0	20.48	20.45	20.43	21.00	1.5

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5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Frequency (MHz)				3455.01	3499.995	3544.995				
Channel				630334	633333	636333				
10	Pi/2 BPSK	1	0	20.48	20.49	20.48	21.00	1.5		
5G NR n77 & n78_HPUE_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.02	3525.015	3575.01	3625.005	3675		
Channel				631668	635001	638334	641667	645000		
50	CP-OFDM QPSK	1	0	20.51	20.49	20.46	20.42	20.58	21.00	1.5
5G NR n77 & n78_HPUE_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3522.51	3575.01	3627.51	3680.01		
Channel				631334	634834	638334	641834	645334		
40	CP-OFDM QPSK	1	0	20.55	20.43	20.49	20.49	20.58	21.00	1.5
5G NR n77 & n78_HPUE_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.02	3517.515	3575.01	3632.505	3690		
Channel				630668	634501	638334	642167	646000		
20	CP-OFDM QPSK	1	0	20.51	20.52	20.41	20.43	20.49	21.00	1.5
5G NR n77 & n78_HPUE_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3516.255	3575.01	3633.765	3692.52		
Channel				630500	634417	638334	642251	646168		
15	CP-OFDM QPSK	1	0	20.45	20.46	20.47	20.42	20.56	21.00	1.5

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5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3750			
Channel					650000			
100	CP-OFDM QPSK	1	0		17.62			
		1	137		17.55		18.00	1.5
		1	272		17.56		18.00	1.5
		135	0		17.60		18.00	1.5
		137	68		17.52		18.00	1.5
		135	138		17.54		18.00	1.5
		273	0		16.03		16.50	3.0
	16-QAM	1	1		17.05		17.50	2.0
	64QAM	1	1		15.52		16.00	3.5
	256-QAM	1	1		12.56		13.00	6.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	645000	650334		
90	CP-OFDM QPSK	1	0	17.55	17.52	17.52	18.00	1.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	CP-OFDM QPSK	1	0	17.54	17.58	17.54	18.00	1.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	645000	651334		
60	CP-OFDM QPSK	1	0	17.56	17.57	17.55	18.00	1.5

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5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	CP-OFDM QPSK	1	0	17.56	17.57	17.54	18.00	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	645000	652000		
40	CP-OFDM QPSK	1	0	17.57	17.53	17.61	18.00	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	645000	652666		
20	CP-OFDM QPSK	1	0	17.52	17.59	17.57	18.00	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	CP-OFDM QPSK	1	0	17.53	17.59	17.54	18.00	1.5

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5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	645000	653000		
10	CP-OFDM QPSK	1	0	17.58	17.59	17.52	18.00	1.5

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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)					3750			
Channel					650000			
100	CP-OFDM QPSK	1	0		20.64		21.00	1.5
		1	137		20.56		21.00	1.5
		1	272		20.55		21.00	1.5
		135	0		20.58		21.00	1.5
		137	68		20.58		21.00	1.5
		135	138		20.60		21.00	1.5
		273	0		19.04		19.50	3.0
	16-QAM	1	1		20.07		20.50	2.0
	64QAM	1	1		18.55		19.00	3.5
	256-QAM	1	1		15.59		16.00	6.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	650000	650334		
90	CP-OFDM QPSK	1	0	20.63	20.63	20.59	21.00	1.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	CP-OFDM QPSK	1	0	20.56	20.61	20.62	21.00	1.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	650000	651334		
60	CP-OFDM QPSK	1	0	20.54	20.63	20.63	21.00	1.5

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5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	CP-OFDM QPSK	1	0	20.56	20.57	20.59	21.00	1.5

5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	650000	652000		
40	CP-OFDM QPSK	1	0	20.63	20.56	20.56	21.00	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	650000	652666		
20	CP-OFDM QPSK	1	0	20.63	20.63	20.60	21.00	1.5

5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	CP-OFDM QPSK	1	0	20.59	20.58	20.55	21.00	1.5

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5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	650000	653000		
10	CP-OFDM QPSK	1	0	20.58	20.59	20.63	21.00	1.5

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5G NR n38_30kHz								
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				516000	519000	522000		
20	Pi/2 BPSK	1	1	22.05	22.11	22.12	22.50	0.0
		1	26	21.80	21.82	21.83	22.50	0.0
		1	49	21.84	21.94	21.93	22.50	0.0
		25	0	20.90	20.84	20.81	22.00	0.5
		25	13	21.88	21.95	21.96	22.50	0.0
		25	26	20.86	20.99	20.81	22.00	0.5
		50	0	20.80	20.90	20.95	22.00	0.5
	QPSK	1	1	22.00	21.85	21.90	22.50	0.0
		1	26	21.83	21.85	21.94	22.50	0.0
		1	49	21.84	21.83	21.92	22.50	0.0
		25	0	21.33	21.31	21.47	21.50	1.0
		25	13	21.99	21.81	21.93	22.50	0.0
		25	26	21.49	21.41	21.46	21.50	1.0
		50	0	21.45	21.47	21.48	21.50	1.0
	16-QAM	1	1	20.88	21.00	20.89	21.50	1.0
	64QAM	1	1	19.37	19.34	19.47	20.00	2.5
	256-QAM	1	1	17.33	17.40	17.42	18.00	4.5
5G NR n38_30kHz								
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				515500	519000	522500		
15	Pi/2 BPSK	1	1	21.23	20.94	21.12	22.50	0.0
5G NR n38_30kHz								
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				515000	519000	523000		
10	Pi/2 BPSK	1	1	21.18	21.12	21.16	22.50	0.0

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5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	Pi/2 BPSK	1	1	21.79	21.87	21.73	22.00	0.0
		1	137	21.78	21.73	21.70	22.00	0.0
		1	271	21.74	21.68	21.74	22.00	0.0
		135	0	20.62	20.73	20.85	21.50	0.5
		135	69	21.79	21.69	21.70	22.00	0.0
		135	138	20.66	20.83	20.73	21.50	0.5
		270	0	20.76	20.84	20.82	21.50	0.5
	QPSK	1	1	21.75	21.68	21.81	22.00	0.0
		1	137	21.65	21.79	21.70	22.00	0.0
		1	271	21.67	21.70	21.78	22.00	0.0
		135	0	20.81	20.78	20.72	21.00	1.0
		135	69	21.60	21.80	21.73	22.00	0.0
		135	138	20.75	20.72	20.69	21.00	1.0
		270	0	20.58	20.48	20.51	21.00	1.0
	16-QAM	1	1	20.63	20.71	20.83	21.00	1.0
	64QAM	1	1	19.18	19.26	19.31	19.50	2.5
	256-QAM	1	1	17.23	17.30	17.19	17.50	4.5

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5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	Pi/2 BPSK	1	1	21.79	21.78	21.68	22.00	0.0

5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	Pi/2 BPSK	1	1	21.75	21.83	21.69	22.00	0.0

5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	Pi/2 BPSK	1	1	21.65	21.82	21.78	22.00	0.0

5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	Pi/2 BPSK	1	1	21.77	21.73	21.79	22.00	0.0

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5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	Pi/2 BPSK	1	1	21.75	21.80	21.76	22.00	0.0
5G NR n41_30kHz_PC2&PC3								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	Pi/2 BPSK	1	1	21.68	21.75	21.77	22.00	0.0

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5G NR n77_30kHz_FCC_PC2&PCS3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930		
Channel				650000	653000	656000	659000	662000		
100	Pi/2 BPSK	1	1	18.17	18.15	18.20	18.23	18.17	18.50	0.0
		1	137	18.16	18.19	18.08	18.20	18.05	18.50	0.0
		1	272	18.06	18.03	18.17	18.04	18.11	18.50	0.0
		135	0	17.17	17.06	17.07	17.12	17.16	18.00	0.5
		135	69	18.11	18.18	18.07	18.17	18.17	18.50	0.0
		135	138	17.14	17.10	17.11	17.08	17.09	18.00	0.5
		270	0	17.03	17.13	17.14	17.10	17.09	18.00	0.5
	QPSK	1	1	18.07	18.19	18.04	18.20	18.19	18.50	0.0
		1	137	18.17	18.04	18.09	18.02	18.05	18.50	0.0
		1	272	18.11	18.01	18.04	18.16	18.03	18.50	0.0
		135	0	17.37	17.26	17.38	17.33	17.43	17.50	1.0
		135	69	18.06	18.04	18.19	18.02	18.07	18.50	0.0
		135	138	17.24	17.26	17.40	17.39	17.30	17.50	1.0
		270	0	17.24	17.31	17.39	17.32	17.35	17.50	1.0
	16-QAM	1	1	17.03	17.13	17.06	17.05	17.15	17.50	1.0
	64QAM	1	1	15.67	15.56	15.54	15.60	15.64	16.00	2.5
	256-QAM	1	1	13.63	13.55	13.65	13.59	13.53	14.00	4.5

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5G NR n77_30kHz_FCC_PC2&PCS3

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01		
Channel				649666	652834	656000	659166	662334		
90	Pi/2 BPSK	1	1	18.05	18.16	18.12	18.13	18.18	18.50	0.0

5G NR n77_30kHz_FCC_PC2&PCS3

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99		
Channel				649334	652666	656000	659334	662666		
80	Pi/2 BPSK	1	1	18.01	18.14	18.20	18.11	18.15	18.50	0.0

5G NR n77_30kHz_FCC_PC2&PCS3

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01		
Channel				648666	652334	656000	659666	663334		
60	Pi/2 BPSK	1	1	18.04	18.08	18.01	18.07	18.17	18.50	0.0

5G NR n77_30kHz_FCC_PC2&PCS3

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99		
Channel				648334	652166	656000	659834	663666		
50	Pi/2 BPSK	1	1	18.09	18.09	18.12	18.11	18.02	18.50	0.0

5G NR n77_30kHz_FCC_PC2&PCS3

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960		
Channel				648000	652000	656000	660000	664000		
40	Pi/2 BPSK	1	1	18.07	18.06	18.09	18.01	18.19	18.50	0.0

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5G NR n77_30kHz_FCC_PC2&PCS3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99		
Channel				647334	651666	656000	660266	664666		
20	Pi/2 BPSK	1	1	18.11	18.21	18.14	18.15	18.12	18.50	0.0
5G NR n77_30kHz_FCC_PC2&PCS3										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
15	Pi/2 BPSK	1	1			18.15			18.50	0.0
5G NR n77_30kHz_FCC										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
10	Pi/2 BPSK	1	1			18.04			18.50	0.0

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5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930		
Channel				650000	653000	656000	659000	662000		
100	Pi/2 BPSK	1	1	18.14	18.11	18.14	18.16	18.19	18.50	0.0
		1	137	18.16	18.18	18.08	18.13	18.10	18.50	0.0
		1	272	18.03	18.18	18.11	18.10	18.06	18.50	0.0
		135	0	17.10	17.19	17.17	17.19	17.11	18.00	0.5
		135	69	18.13	18.00	18.07	18.18	18.06	18.50	0.0
		135	138	17.09	17.14	17.17	17.11	17.08	18.00	0.5
		270	0	17.17	17.03	17.01	17.00	17.13	18.00	0.5
	QPSK	1	1	18.12	18.04	18.08	18.02	18.16	18.50	0.0
		1	137	18.12	18.07	18.07	18.06	18.00	18.50	0.0
		1	272	18.09	18.06	18.02	18.01	18.05	18.50	0.0
		135	0	17.40	17.32	17.33	17.21	17.30	17.50	1.0
		135	69	18.13	18.08	18.18	18.10	18.06	18.50	0.0
		135	138	17.24	17.32	17.29	17.25	17.33	17.50	1.0
		270	0	17.22	17.29	17.31	17.23	17.28	17.50	1.0
	16-QAM	1	1	17.06	17.16	17.18	17.11	17.02	17.50	1.0
	64QAM	1	1	15.62	15.53	15.62	15.61	15.54	16.00	2.5
	256-QAM	1	1	13.51	13.51	13.60	13.54	13.52	14.00	4.5

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01		
Channel				649666	652834	656000	659166	662334		
90	Pi/2 BPSK	1	1	18.18	18.17	18.11	18.00	18.04	18.50	0.0

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99		
Channel				649334	652666	656000	659334	662666		
80	Pi/2 BPSK	1	1	18.04	18.06	18.14	18.16	18.08	18.50	0.0

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5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01		
Channel				648666	652334	656000	659666	663334		
60	Pi/2 BPSK	1	1	18.17	18.08	18.12	18.02	18.11	18.50	0.0

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99		
Channel				648334	652166	656000	659834	663666		
50	Pi/2 BPSK	1	1	18.13	18.15	18.13	18.08	18.14	18.50	0.0

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960		
Channel				648000	652000	656000	660000	664000		
40	Pi/2 BPSK	1	1	18.13	18.00	18.07	18.07	18.16	18.50	0.0

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99		
Channel				647334	651666	656000	660266	664666		
20	Pi/2 BPSK	1	1	18.12	18.19	18.17	18.03	18.07	18.50	0.0

5G NR n77_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
15	Pi/2 BPSK	1	1			18.15			18.50	0.0

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5G NR n77_HPUE_30kHz_FCC									
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)
Frequency (MHz)						3840			
Channel						656000			
10	Pi/2 BPSK	1	1			18.18			18.50
									0.0

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5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	Pi/2 BPSK	1	1		18.70		19.00	0.0
		1	137		18.69		19.00	0.0
		1	272		18.61		19.00	0.0
		135	0		17.78		18.50	0.5
		135	69		18.56		19.00	0.0
		135	138		17.64		18.50	0.5
		270	0		17.72		18.50	0.5
	QPSK	1	1		18.64		19.00	0.0
		1	137		18.63		19.00	0.0
		1	272		18.58		19.00	0.0
		135	0		17.84		18.00	1.0
		135	69		18.61		19.00	0.0
		135	138		17.89		18.00	1.0
		270	0		17.85		18.00	1.0
	16-QAM	1	1		17.63		18.00	1.0
	64QAM	1	1		16.11		16.50	2.5
	256-QAM	1	1		13.99		14.50	4.5
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	Pi/2 BPSK	1	1	18.62	18.67	18.60	19.00	0.0
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	Pi/2 BPSK	1	1	18.59	18.64	18.57	19.00	0.0

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5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	Pi/2 BPSK	1	1	18.56	18.67	18.57	19.00	0.0
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	Pi/2 BPSK	1	1	18.56	18.65	18.50	19.00	0.0
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	Pi/2 BPSK	1	1	18.62	18.61	18.51	19.00	0.0
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	Pi/2 BPSK	1	1	18.58	18.62	18.60	19.00	0.0
5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	Pi/2 BPSK	1	1	18.61	18.59	18.52	19.00	0.0

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5G NR n77 & n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3455.01	3499.995	3544.995		
Channel				630334	633333	636333		
10	Pi/2 BPSK	1	1	18.61	18.65	18.54	19.00	0.0

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5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	Pi/2 BPSK	1	1		19.73		20.00	0.0
		1	137		19.58		20.00	0.0
		1	272		19.47		20.00	0.0
		135	0		18.61		19.50	0.5
		135	69		19.67		20.00	0.0
		135	138		18.47		19.50	0.5
		270	0		18.65		19.50	0.5
	QPSK	1	1		19.58		20.00	0.0
		1	137		19.43		20.00	0.0
		1	272		19.69		20.00	0.0
		135	0		18.95		19.00	1.0
		135	69		19.59		20.00	0.0
		135	138		18.58		19.00	1.0
		270	0		18.64		19.00	1.0
	16-QAM	1	1		18.62		19.00	1.0
	64QAM	1	1		17.22		17.50	2.5
	256-QAM	1	1		14.80		15.50	4.5

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	Pi/2 BPSK	1	1	19.41	19.68	19.70	20.00	0.0

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5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	Pi/2 BPSK	1	1	19.33	19.63	19.66	20.00	0.0

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	Pi/2 BPSK	1	1	19.39	19.64	19.68	20.00	0.0

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	Pi/2 BPSK	1	1	19.32	19.62	19.68	20.00	0.0

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	Pi/2 BPSK	1	1	19.34	19.65	19.62	20.00	0.0

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5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	Pi/2 BPSK	1	1	19.32	19.66	19.60	20.00	0.0

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	Pi/2 BPSK	1	1	19.38	19.59	19.64	20.00	0.0

5G NR n77 & n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3455.01	3499.995	3544.995		
Channel				630334	633333	636333		
10	Pi/2 BPSK	1	1	19.35	19.66	19.65	20.00	0.0

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5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3750			
Channel					645000			
100	Pi/2 BPSK	1	1		18.53		19.00	0.0
		1	137		18.38		19.00	0.0
		1	272		18.49		19.00	0.0
		135	0		17.40		18.50	0.5
		135	69		18.33		19.00	0.0
		135	138		17.41		18.50	0.5
		270	0		17.47		18.50	0.5
	QPSK	1	1		18.39		19.00	0.0
		1	137		18.43		19.00	0.0
		1	272		18.32		19.00	0.0
		135	0		17.89		18.00	1.0
		135	69		18.39		19.00	0.0
		135	138		17.92		18.00	1.0
		270	0		17.88		18.00	1.0
	16-QAM	1	1		17.42		18.00	1.0
	64QAM	1	1		15.95		16.50	2.5
	256-QAM	1	1		13.90		14.50	4.5
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	645000	650334		
90	Pi/2 BPSK	1	1	18.46	18.49	18.44	19.00	0.0
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	Pi/2 BPSK	1	1	18.47	18.52	18.45	19.00	0.0

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5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	645000	651334		
60	Pi/2 BPSK	1	1	18.37	18.48	18.40	19.00	0.0
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	Pi/2 BPSK	1	1	18.50	18.40	18.51	19.00	0.0
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	645000	652000		
40	Pi/2 BPSK	1	1	18.44	18.43	18.37	19.00	0.0
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	645000	652666		
20	Pi/2 BPSK	1	1	18.46	18.45	18.38	19.00	0.0
5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	Pi/2 BPSK	1	1	18.44	18.47	18.47	19.00	0.0

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5G NR n78_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	645000	653000		
10	Pi/2 BPSK	1	1	18.43	18.44	18.37	19.00	0.0

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5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3750			
Channel					650000			
100	Pi/2 BPSK	1	1		19.56		20.00	0.0
		1	137		19.40		20.00	0.0
		1	272		19.41		20.00	0.0
		135	0		18.35		19.50	0.5
		135	69		19.34		20.00	0.0
		135	138		18.43		19.50	0.5
		270	0		18.32		19.50	0.5
	QPSK	1	1		19.48		20.00	0.0
		1	137		19.38		20.00	0.0
		1	272		19.50		20.00	0.0
		135	0		18.82		19.00	1.0
		135	69		19.49		20.00	0.0
		135	138		18.98		19.00	1.0
		270	0		18.96		19.00	1.0
	16-QAM	1	1		18.33		19.00	1.0
	64QAM	1	1		16.87		17.50	2.5
	256-QAM	1	1		14.86		15.50	4.5
5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	650000	650334		
90	Pi/2 BPSK	1	1	19.38	19.36	19.45	20.00	0.0

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5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	Pi/2 BPSK	1	1	19.33	19.50	19.34	20.00	0.0

5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	650000	651334		
60	Pi/2 BPSK	1	1	19.40	19.48	19.45	20.00	0.0

5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	Pi/2 BPSK	1	1	19.46	19.48	19.43	20.00	0.0

5G NR n78_HPUE_30kHz_FCC								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	650000	652000		
40	Pi/2 BPSK	1	1	19.44	19.37	19.32	20.00	0.0

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5G NR n78_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	650000	652666		
20	Pi/2 BPSK	1	1	19.38	19.45	19.39	20.00	0.0

5G NR n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	Pi/2 BPSK	1	1	19.46	19.39	19.38	20.00	0.0

5G NR n78_HPUE_30kHz_FCC

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	650000	653000		
10	Pi/2 BPSK	1	1	19.47	19.47	19.47	20.00	0.0

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ULMIMO

5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	CP-OFDM QPSK	1	0	17.50	17.52	17.51	18.00	1.5
		1	137	17.48	17.51	17.50	18.00	1.5
		1	272	17.40	17.46	17.49	18.00	1.5
		135	0	17.42	17.47	17.43	18.00	1.5
		137	68	17.47	17.43	17.44	18.00	1.5
		135	138	17.48	17.43	17.50	18.00	1.5
		273	0	16.02	16.04	16.04	16.50	3.0
	16-QAM	1	1	16.93	16.99	17.06	17.50	2.0
	64QAM	1	1	15.49	15.57	15.51	16.00	3.5
	256-QAM	1	1	12.58	12.54	12.50	13.00	6.5

5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	CP-OFDM QPSK	1	0	17.47	17.51	17.46	18.00	1.5

5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	CP-OFDM QPSK	1	0	17.40	17.50	17.46	18.00	1.5

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5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	CP-OFDM QPSK	1	0	17.45	17.45	17.43	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	CP-OFDM QPSK	1	0	17.45	17.50	17.48	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	CP-OFDM QPSK	1	0	17.44	17.50	17.44	18.00	1.5
5G NR n41_30kHz_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	CP-OFDM QPSK	1	0	17.42	17.50	17.51	18.00	1.5

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5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2546.01	2592.99	2640		
Channel				509202	518598	528000		
100	CP-OFDM QPSK	1	0	20.46	20.50	20.45	20.50	1.5
		1	137	20.43	20.48	20.47	20.50	1.5
		1	272	20.34	20.39	20.42	20.50	1.5
		135	0	20.39	20.45	20.37	20.50	1.5
		137	68	20.39	20.31	20.44	20.50	1.5
		135	138	20.43	20.38	20.34	20.50	1.5
		273	0	18.96	18.97	19.03	19.00	3.0
	16-QAM	1	1	20.04	20.04	20.02	20.00	2.0
	64QAM	1	1	18.56	18.46	18.46	18.50	3.5
	256-QAM	1	1	15.45	15.43	15.48	15.50	6.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2541	2592.99	2644.98		
Channel				508200	518598	528996		
90	CP-OFDM QPSK	1	0	20.37	20.43	20.39	20.50	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2536.02	2592.99	2649.99		
Channel				507204	518598	529998		
80	CP-OFDM QPSK	1	0	20.38	20.40	20.39	20.50	1.5

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5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2526	2592.99	2659.98		
Channel				505200	518598	531996		
60	CP-OFDM QPSK	1	0	20.40	20.40	20.42	20.50	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2521.02	2592.99	2664.99		
Channel				504204	518598	532998		
50	CP-OFDM QPSK	1	0	20.44	20.41	20.37	20.50	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2516.01	2592.99	2670		
Channel				503202	518598	534000		
40	CP-OFDM QPSK	1	0	20.41	20.40	20.40	20.50	1.5

5G NR n41_PC2_30kHz_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				2506.02	2592.99	2679.99		
Channel				501204	518598	535998		
20	CP-OFDM QPSK	1	0	20.44	20.43	20.35	20.50	1.5

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5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				650000	653000	656000	659000	662000		
100	CP-OFDM QPSK	1	0	16.77	16.78	16.78	16.70	16.72	17.00	1.5
		1	137	16.76	16.71	16.71	16.70	16.72	17.00	1.5
		1	272	16.71	16.73	16.75	16.69	16.64	17.00	1.5
		135	0	16.70	16.70	16.69	16.69	16.70	17.00	1.5
		137	68	16.70	16.76	16.71	16.62	16.65	17.00	1.5
		135	138	16.70	16.77	16.73	16.65	16.63	17.00	1.5
		273	0	15.30	15.25	15.30	15.20	15.28	15.50	3.0
	16-QAM	1	1	16.24	16.29	16.27	16.20	16.20	16.50	2.0
	64QAM	1	1	14.74	14.73	14.72	14.74	14.71	15.00	3.5
	256-QAM	1	1	11.77	11.80	11.73	11.78	11.80	12.00	6.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649666	652834	656000	659166	662334		
90	CP-OFDM QPSK	1	0	16.77	16.69	16.74	16.60	16.66	17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649334	652666	656000	659334	662666		
80	CP-OFDM QPSK	1	0	16.77	16.77	16.75	16.60	16.65	17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				648666	652334	656000	659666	663334		
60	CP-OFDM QPSK	1	0	16.73	16.75	16.74	16.62	16.62	17.00	1.5

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5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99		
Channel				648334	652166	656000	659834	663666		
50	CP-OFDM QPSK	1	0	16.73	16.77	16.70	16.70	16.72	17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960		
Channel				648000	652000	656000	660000	664000		
40	CP-OFDM QPSK	1	0	16.68	16.76	16.69	16.61	16.68	17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99		
Channel				647334	651666	656000	660266	664666		
20	CP-OFDM QPSK	1	0	16.77	16.68	16.74	16.61	16.72	17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
15	CP-OFDM QPSK	1	0			16.76			17.00	1.5

5G NR n77_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
10	CP-OFDM QPSK	1	0			16.73			17.00	1.5

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5G NR n77_PC2_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3750	3795	3840	3885	3930	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				650000	653000	656000	659000	662000		
100	CP-OFDM QPSK	1	0	16.73	16.75	16.69	16.68	16.70	17.00	1.5
		1	137	16.69	16.63	16.62	16.66	16.68	17.00	1.5
		1	272	16.61	16.73	16.61	16.65	16.59	17.00	1.5
		135	0	16.62	16.65	16.66	16.58	16.67	17.00	1.5
		137	68	16.64	16.66	16.65	16.59	16.64	17.00	1.5
		135	138	16.68	16.68	16.60	16.61	16.57	17.00	1.5
		273	0	15.25	15.16	15.22	15.18	15.23	15.50	3.0
	16-QAM	1	1	16.18	16.24	16.19	16.15	16.17	16.50	2.0
	64QAM	1	1	14.65	14.70	14.62	14.68	14.70	15.00	3.5
	256-QAM	1	1	11.68	11.73	11.70	11.68	11.80	12.00	6.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3792.51	3840	3887.49	3935.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649666	652834	656000	659166	662334		
90	CP-OFDM QPSK	1	0	16.66	16.65	16.63	16.62	16.66	17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3789.99	3840	3890.01	3939.99	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				649334	652666	656000	659334	662666		
80	CP-OFDM QPSK	1	0	16.64	16.66	16.59	16.64	16.64	17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3785.01	3840	3894.99	3950.01	Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Channel				648666	652334	656000	659666	663334		
60	CP-OFDM QPSK	1	0	16.68	16.70	16.59	16.68	16.67	17.00	1.5

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5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3782.49	3840	3897.51	3954.99		
Channel				648334	652166	656000	659834	663666		
50	CP-OFDM QPSK	1	0	16.63	16.68	16.66	16.59	16.64	17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3780	3840	3900	3960		
Channel				648000	652000	656000	660000	664000		
40	CP-OFDM QPSK	1	0	16.67	16.70	16.69	16.61	16.67	17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3774.99	3840	3903.99	3969.99		
Channel				647334	651666	656000	660266	664666		
20	CP-OFDM QPSK	1	0	16.69	16.70	16.67	16.62	16.67	17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
15	CP-OFDM QPSK	1	0			16.65			17.00	1.5

5G NR n77_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)						3840				
Channel						656000				
10	CP-OFDM QPSK	1	0			16.62			17.00	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	CP-OFDM QPSK	1	0		17.29		17.50	1.5
		1	137		17.26		17.50	1.5
		1	272		17.25		17.50	1.5
		135	0		17.21		17.50	1.5
		137	68		17.22		17.50	1.5
		135	138		17.24		17.50	1.5
		273	0		15.75		16.00	3.0
	16-QAM	1	1		16.70		17.00	2.0
	64QAM	1	1		15.24		15.50	3.5
	256-QAM	1	1		12.29		12.50	6.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	CP-OFDM QPSK	1	0	17.26	17.25	17.24	17.50	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	CP-OFDM QPSK	1	0	17.27	17.25	17.25	17.50	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	CP-OFDM QPSK	1	0	17.28	17.25	17.22	17.50	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	CP-OFDM QPSK	1	0	17.22	17.23	17.25	17.50	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	CP-OFDM QPSK	1	0	17.20	17.25	17.26	17.50	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	CP-OFDM QPSK	1	0	17.27	17.22	17.26	17.50	1.5

5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	CP-OFDM QPSK	1	0	17.23	17.22	17.27	17.50	1.5

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5G NR n77 & n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3455.01	3499.995	3544.995		
Channel				630334	633333	636333		
10	CP-OFDM QPSK	1	0	17.24	17.20	17.23	17.50	1.5

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5G NR n77 & n78_PC2_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3499.995			
Channel					633333			
100	Pi/2 BPSK	1	0		18.39		18.50	1.5
		1	137		18.20		18.50	1.5
		1	272		18.25		18.50	1.5
		135	0		18.26		18.50	1.5
		137	68		18.29		18.50	1.5
		135	138		18.21		18.50	1.5
		273	0		16.80		17.00	3.0
	16-QAM	1	1		17.78		18.00	2.0
	64QAM	1	1		16.30		16.50	3.5
	256-QAM	1	1		13.28		13.50	6.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3495	3499.995	3504.99		
Channel				633000	633333	633666		
90	Pi/2 BPSK	1	0	18.34	18.38	18.32	18.50	1.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3490.005	3499.995	3510		
Channel				632667	633333	634000		
80	Pi/2 BPSK	1	0	18.31	18.33	18.35	18.50	1.5
5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3480	3499.995	3519.99		
Channel				632000	633333	634666		
60	Pi/2 BPSK	1	0	18.38	18.31	18.35	18.50	1.5

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5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.005	3499.995	3525		
Channel				631667	633333	635000		
50	Pi/2 BPSK	1	0	18.38	18.35	18.32	18.50	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3499.995	3529.995		
Channel				631334	633333	635333		
40	Pi/2 BPSK	1	0	18.32	18.29	18.38	18.50	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.005	3499.995	3540		
Channel				630667	633333	636000		
20	Pi/2 BPSK	1	0	18.29	18.34	18.33	18.50	1.5

5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3499.995	3542.49		
Channel				630500	633333	636166		
15	Pi/2 BPSK	1	0	18.32	18.30	18.30	18.50	1.5

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5G NR n77 & n78_HPUE_30kHz_FCC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)		
Frequency (MHz)				3455.01	3499.995	3544.995				
Channel				630334	633333	636333				
10	Pi/2 BPSK	1	0	18.36	18.33	18.32	18.50	1.5		
5G NR n77 & n78_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3475.02	3525.015	3575.01	3625.005	3675		
Channel				631668	635001	638334	641667	645000		
50	CP-OFDM QPSK	1	0	17.18	17.23	17.17	17.10	17.11	17.50	1.5
5G NR n77 & n78_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3470.01	3522.51	3575.01	3627.51	3680.01		
Channel				631334	634834	638334	641834	645334		
40	CP-OFDM QPSK	1	0	17.20	17.27	17.23	17.17	17.17	17.50	1.5
5G NR n77 & n78_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3460.02	3517.515	3575.01	3632.505	3690		
Channel				630668	634501	638334	642167	646000		
20	CP-OFDM QPSK	1	0	17.17	17.18	17.15	17.15	17.19	17.50	1.5
5G NR n77 & n78_30kHz_IC_ULMIMO										
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)					Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3457.5	3516.255	3575.01	3633.765	3692.52		
Channel				630500	634417	638334	642251	646168		
15	CP-OFDM QPSK	1	0	17.23	17.26	17.24	17.10	17.20	17.50	1.5

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5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3750			
Channel					650000			
100	CP-OFDM QPSK	1	0		17.40		17.50	1.5
		1	137		17.37		17.50	1.5
		1	272		17.37		17.50	1.5
		135	0		17.33		17.50	1.5
		137	68		17.35		17.50	1.5
		135	138		17.32		17.50	1.5
		273	0		15.87		16.00	3.0
	16-QAM	1	1		16.81		17.00	2.0
	64QAM	1	1		15.38		15.50	3.5
	256-QAM	1	1		12.38		12.50	6.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	645000	650334		
90	CP-OFDM QPSK	1	0	17.33	17.31	17.34	17.50	1.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	CP-OFDM QPSK	1	0	17.36	17.30	17.32	17.50	1.5
5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	645000	651334		
60	CP-OFDM QPSK	1	0	17.30	17.34	17.30	17.50	1.5

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5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	CP-OFDM QPSK	1	0	17.31	17.37	17.39	17.50	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	645000	652000		
40	CP-OFDM QPSK	1	0	17.38	17.38	17.39	17.50	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	645000	652666		
20	CP-OFDM QPSK	1	0	17.38	17.35	17.31	17.50	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	CP-OFDM QPSK	1	0	17.37	17.31	17.30	17.50	1.5

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5G NR n78_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	645000	653000		
10	CP-OFDM QPSK	1	0	17.32	17.33	17.32	17.50	1.5

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5G NR n78_PC2_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)					3750			
Channel					650000			
100	CP-OFDM QPSK	1	0		18.39		18.50	1.5
		1	137		18.38		18.50	1.5
		1	272		18.33		18.50	1.5
		135	0		18.36		18.50	1.5
		137	68		18.29		18.50	1.5
		135	138		18.30		18.50	1.5
		273	0		16.88		17.00	3.0
	16-QAM	1	1		17.88		18.00	2.0
	64QAM	1	1		16.30		16.50	3.5
	256-QAM	1	1		13.37		13.50	6.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3744.99	3750	3755.01		
Channel				649666	650000	650334		
90	CP-OFDM QPSK	1	0	18.30	18.34	18.32	18.50	1.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3740.01	3750	3759.99		
Channel				649334	645000	650666		
80	CP-OFDM QPSK	1	0	18.35	18.35	18.32	18.50	1.5
5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3729.99	3750	3770.01		
Channel				648666	650000	651334		
60	CP-OFDM QPSK	1	0	18.31	18.32	18.32	18.50	1.5

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5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3725.01	3750	3774.99		
Channel				648334	645000	651666		
50	CP-OFDM QPSK	1	0	18.31	18.38	18.29	18.50	1.5

5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3720	3750	3780		
Channel				648000	650000	652000		
40	CP-OFDM QPSK	1	0	18.31	18.30	18.37	18.50	1.5

5G NR n78_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3710.01	3750	3789.99		
Channel				647334	650000	652666		
20	CP-OFDM QPSK	1	0	18.31	18.33	18.29	18.50	1.5

5G NR n78_HPUE_30kHz_FCC_ULMIMO

BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3707.49	3750	3792.51		
Channel				647166	645000	652834		
15	CP-OFDM QPSK	1	0	18.29	18.29	18.35	18.50	1.5

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5G NR n78_HPUE_30kHz_FCC_ULMIMO								
BW(MHz)	Modulation	RB Size	RB Offset	Conducted power (dBm)			Target Power + Max. Tolerance (dBm)	MPR Allowed per 3GPP(dB)
Frequency (MHz)				3705	3750	3795		
Channel				647000	650000	653000		
10	CP-OFDM QPSK	1	0	18.35	18.29	18.31	18.50	1.5

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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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

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Vendor 1

Mode	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	19100	1900	23.00	22.63	108.89%	0.438	0.477	001
LTE Band 2			50	25	Bottom Surface	0	18700	1960	22.00	21.57	110.41%	0.319	0.352	-
LTE Band 2			50	0	Bottom Surface	0	18900	1960	22.00	21.57	110.41%	0.302	0.333	-
LTE Band 4	20MHz	QPSK	1	0	Bottom Surface	0	20050	1720	24.00	22.79	132.13%	0.361	0.477	002
LTE Band 4			50	50	Bottom Surface	0	20175	1732.5	23.00	21.54	139.96%	0.318	0.445	-
LTE Band 7			1	0	Bottom Surface	0	20850	2510	22.00	21.85	103.51%	0.870	0.901	-
LTE Band 7	20MHz	QPSK	1	0	Bottom Surface	0	21100	2535	22.00	21.98	100.46%	1.090	1.095	003
LTE Band 7			1	50	Bottom Surface	0	21350	2560	22.00	21.90	102.33%	0.871	0.891	-
LTE Band 7			50	50	Bottom Surface	0	20850	2510	21.00	20.93	101.62%	0.700	0.711	-
LTE Band 7			100RB		Bottom Surface	0	21100	2535	21.00	20.82	104.23%	0.679	0.708	-
Repeated			1	0	Bottom Surface	0	21100	2535	22.00	21.98	100.46%	1.067	1.072	-
LTE Band 25	20MHz	QPSK	1	0	Bottom Surface	0	26590	1905	20.00	19.67	107.89%	0.222	0.240	004
LTE Band 25			50	50	Bottom Surface	0	26590	1905	19.00	18.65	108.39%	0.198	0.215	-
LTE Band 30	10MHz	QPSK	1	0	Bottom Surface	0	27710	2310	22.00	21.80	104.71%	0.546	0.572	005
LTE Band 30			25	25	Bottom Surface	0	27710	2310	21.00	20.75	105.93%	0.423	0.448	-
LTE Band 66	20MHz	QPSK	1	0	Bottom Surface	0	132072	1720	24.00	22.82	131.22%	0.536	0.703	006
LTE Band 66			50	25	Bottom Surface	0	132222	1745	23.00	21.74	133.66%	0.438	0.585	-
LTE Band 66			50	25	Bottom Surface	0	132572	1770	23.00	21.74	133.66%	0.426	0.569	-
LTE Band 41	20MHz	QPSK	1	0	Bottom Surface	0	41055	2636.5	24.00	23.88	102.80%	0.578	0.594	007
LTE Band 41	20MHz	QPSK	50	25	Bottom Surface	0	40185	2549.5	23.00	22.78	105.20%	0.562	0.591	-
CA_41C	20MHz	QPSK	1-99	1-0	Bottom Surface	0	40521 / 40719	2583.1 / 2602.9	24.00	23.11	122.74%	0.553	0.679	-
LTE Band 41(HPUe)	20MHz	QPSK	1	0	Bottom Surface	0	39750	2506	27.00	26.52	111.69%	0.892	0.996	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	40185	2549.5	27.00	26.51	111.94%	0.788	0.882	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	40620	2593	27.00	26.57	110.41%	1.050	1.159	008
LTE Band 41(HPUe)			1	0	Bottom Surface	0	41055	2636.5	27.00	26.55	110.92%	0.824	0.914	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	41490	2680	27.00	26.54	111.17%	0.760	0.845	-
LTE Band 41(HPUe)			50	50	Bottom Surface	0	39750	2506	26.00	25.18	120.78%	0.773	0.934	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	40185	2549.5	26.00	25.18	120.78%	0.705	0.852	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	40620	2593	26.00	25.23	119.40%	0.901	1.076	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	41055	2636.5	26.00	25.16	121.34%	0.788	0.956	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	41490	2680	26.00	25.24	119.12%	0.739	0.880	-
LTE Band 41(HPUe)			100RB		Bottom Surface	0	40185	2549.5	26.00	25.24	119.12%	0.802	0.955	-
Repeated			1	0	Bottom Surface	0	40620	2593	27.00	26.57	110.41%	1.023	1.129	-
LTE Band 48	20MHz	QPSK	1	0	Bottom Surface	0	55830	3609	20.00	18.51	140.93%	0.113	0.159	011
LTE Band 48			50	25	Bottom Surface	0	55340	3560	19.00	17.48	141.91%	0.092	0.131	-
CA_48C	20MHz	QPSK	1-99	1-0	Bottom Surface	0	55891 / 56089	3615.1 / 3634.9	20.00	18.42	143.88%	0.098	0.141	-
Mode	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
NR n2	20MHz	SCS 15kHz	1	1	Bottom Surface	0	37200	1960	23.50	22.79	117.76%	0.254	0.299	012
NR n2		PV2 BPSK	50	28	Bottom Surface	0	38000	1900	23.50	22.57	123.88%	0.182	0.225	-
NR n66	20MHz	SCS 15kHz	1	1	Bottom Surface	0	344000	1720	23.00	22.80	104.71%	0.360	0.377	013
NR n66		PV2 BPSK	50	28	Bottom Surface	0	354000	1770	23.00	22.73	106.41%	0.317	0.337	-
NR n38	20MHz	SCS 30kHz	1	1	Bottom Surface	0	52200	2610	22.50	22.12	109.14%	0.414	0.452	014
NR n38		PV2 BPSK	25	13	Bottom Surface	0	52200	2610	22.50	21.96	113.24%	0.395	0.447	-
NR n41_PC2 & PC3	100MHz	SCS 30kHz	1	1	Bottom Surface	0	518598	2592.99	22.00	21.87	103.04%	0.609	0.628	016
NR n41_PC2 & PC3		PV2 BPSK	135	69	Bottom Surface	0	506202	2546.01	22.00	21.79	104.95%	0.577	0.606	-
NR n77_PC2 & PC3_FCC	100MHz	SCS 30kHz	1	1	Bottom Surface	0	659000	3885	18.50	18.23	106.41%	0.100	0.106	017
NR n77_PC2 & PC3_FCC		PV2 BPSK	135	69	Bottom Surface	0	653000	3795	18.50	18.18	107.65%	0.072	0.078	-
NR n77 & n78FCC	100MHz	SCS 30kHz	1	1	Bottom Surface	0	633333	3499.995	19.00	18.70	107.15%	0.237	0.254	019
NR n77 & n78FCC		PV2 BPSK	135	69	Bottom Surface	0	633333	3499.995	19.00	18.56	110.66%	0.189	0.209	-
NR n77 & n78(HPUe)FCC	100MHz	SCS 30kHz	1	1	Bottom Surface	0	633333	3499.995	20.00	19.73	106.41%	0.231	0.246	020
NR n77 & n78(HPUe)FCC		PV2 BPSK	135	69	Bottom Surface	0	633333	3499.995	20.00	19.67	107.89%	0.199	0.215	-
NR n78FCC	100MHz	SCS 30kHz	1	1	Bottom Surface	0	650000	3750	19.00	18.53	111.43%	0.186	0.207	023
NR n78FCC		PV2 BPSK	135	69	Bottom Surface	0	650000	3750	19.00	18.33	116.68%	0.147	0.172	-
NR n78(HPUe)FCC	100MHz	SCS 30kHz	1	1	Bottom Surface	0	650000	3750	20.00	19.56	110.66%	0.173	0.191	024
NR n78(HPUe)FCC		PV2 BPSK	135	69	Bottom Surface	0	650000	3750	20.00	19.34	116.41%	0.142	0.165	-

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

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Vendor 2

Mode	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	19100	1900	23.00	22.63	108.89%	0.709	0.772	-
LTE Band 2			50	25	Bottom Surface	0	18700	1880	22.00	21.57	110.41%	0.749	0.827	025
LTE Band 2			50	0	Bottom Surface	0	18900	1880	22.00	21.57	110.41%	0.721	0.796	-
LTE Band 2			50	25	Bottom Surface	0	19100	1880	22.00	21.45	113.50%	0.694	0.788	-
LTE Band 2			100RB		Bottom Surface	0	18700	1880	22.00	21.48	112.72%	0.639	0.720	-
LTE Band 4	20MHz	QPSK	1	0	Bottom Surface	0	20050	1720	24.00	22.79	132.13%	0.519	0.686	026
LTE Band 4			50	50	Bottom Surface	0	20175	1732.5	23.00	21.54	139.96%	0.447	0.626	-
LTE Band 7	20MHz	QPSK	1	0	Bottom Surface	0	20850	2510	22.00	21.85	103.51%	0.976	1.010	-
LTE Band 7			1	0	Bottom Surface	0	21100	2535	22.00	21.98	100.46%	1.070	1.075	027
LTE Band 7			1	50	Bottom Surface	0	21350	2560	22.00	21.90	102.33%	1.010	1.034	-
LTE Band 7			50	50	Bottom Surface	0	20850	2510	21.00	20.93	101.62%	0.881	0.895	-
LTE Band 7			50	25	Bottom Surface	0	21100	2535	21.00	20.87	103.04%	0.852	0.878	-
LTE Band 7			50	0	Bottom Surface	0	21350	2560	21.00	20.86	103.28%	0.828	0.855	-
LTE Band 7			100RB		Bottom Surface	0	21100	2535	21.00	20.82	104.23%	0.750	0.782	-
Repeated			1	0	Bottom Surface	0	21100	2535	22.00	21.98	100.46%	1.050	1.055	-
LTE Band 25	20MHz	QPSK	1	0	Bottom Surface	0	26590	1905	20.00	19.67	107.89%	0.380	0.410	028
LTE Band 25			50	50	Bottom Surface	0	26590	1905	19.00	18.65	108.39%	0.326	0.353	-
LTE Band 30	10MHz	QPSK	1	0	Bottom Surface	0	27710	2310	22.00	21.80	104.71%	0.688	0.720	029
LTE Band 30			25	25	Bottom Surface	0	27710	2310	21.00	20.75	105.93%	0.628	0.665	-
LTE Band 66	20MHz	QPSK	1	0	Bottom Surface	0	132072	1720	24.00	22.82	131.22%	0.575	0.755	030
LTE Band 66			50	25	Bottom Surface	0	132322	1745	23.00	21.74	133.66%	0.511	0.683	-
LTE Band 66			50	25	Bottom Surface	0	132572	1770	23.00	21.74	133.66%	0.502	0.671	-
LTE Band 41	20MHz	QPSK	1	99	Bottom Surface	0	39750	2506	24.00	23.73	106.41%	0.935	0.995	-
LTE Band 41			1	0	Bottom Surface	0	40185	2549.5	24.00	23.64	108.64%	0.918	0.997	-
LTE Band 41			1	0	Bottom Surface	0	40620	2593	24.00	23.76	105.68%	0.964	1.019	-
LTE Band 41			1	0	Bottom Surface	0	41055	2636.5	24.00	23.88	102.80%	1.060	1.090	031
LTE Band 41			1	0	Bottom Surface	0	41490	2680	24.00	23.77	105.44%	0.992	1.046	-
LTE Band 41			50	0	Bottom Surface	0	39750	2506	23.00	22.73	106.41%	0.770	0.819	-
LTE Band 41			50	25	Bottom Surface	0	40185	2549.5	23.00	22.78	105.20%	0.743	0.782	-
LTE Band 41			50	50	Bottom Surface	0	40620	2593	23.00	22.68	107.65%	0.829	0.892	-
LTE Band 41			50	0	Bottom Surface	0	41055	2636.5	23.00	22.71	106.91%	0.884	0.945	-
LTE Band 41			50	50	Bottom Surface	0	41490	2680	23.00	22.67	107.89%	0.857	0.925	-
LTE Band 41			100RB		Bottom Surface	0	41055	2636.5	23.00	22.74	106.17%	0.706	0.750	-
CA_41C			1-99	1-0	Bottom Surface	0	40521 / 40719	2583.1 / 2602.9	24.00	23.11	122.74%	0.843	1.035	-
Repeated			1	0	Bottom Surface	0	41055	2636.5	24.00	23.88	102.80%	1.010	1.038	-
LTE Band 41(HPUe)	20MHz	QPSK	1	0	Bottom Surface	0	39750	2506	27.00	26.52	111.69%	0.809	0.904	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	40185	2549.5	27.00	26.51	111.94%	0.775	0.868	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	40620	2593	27.00	26.57	110.41%	0.877	0.968	032
LTE Band 41(HPUe)			1	0	Bottom Surface	0	41055	2636.5	27.00	26.55	110.92%	0.854	0.947	-
LTE Band 41(HPUe)			1	0	Bottom Surface	0	41490	2680	27.00	26.54	111.17%	0.836	0.929	-
LTE Band 41(HPUe)			50	50	Bottom Surface	0	39750	2506	26.00	25.18	120.78%	0.724	0.874	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	40185	2549.5	26.00	25.18	120.78%	0.703	0.849	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	40620	2593	26.00	25.23	119.40%	0.818	0.977	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	41055	2636.5	26.00	25.16	121.34%	0.781	0.948	-
LTE Band 41(HPUe)			50	0	Bottom Surface	0	41490	2680	26.00	25.24	119.12%	0.755	0.899	-
LTE Band 41(HPUe)			100RB		Bottom Surface	0	40185	2549.5	26.00	25.24	119.12%	0.713	0.849	-
Repeated			1	0	Bottom Surface	0	40620	2593	27.00	26.57	110.41%	0.861	0.951	-
LTE Band 48	20MHz	QPSK	1	0	Bottom Surface	0	55830	3609	20.00	18.51	140.93%	0.179	0.252	035
LTE Band 48			50	25	Bottom Surface	0	55340	3560	19.00	17.48	141.91%	0.145	0.206	-
CA_48C	20MHz	QPSK	1-99	1-0	Bottom Surface	0	55891 / 56089	3615.1 / 3634.9	20.00	18.42	143.88%	0.151	0.217	-

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

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Mode	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	
NR n2	20MHz	SCS 15kHz Pv2 BPSK	1	1	Bottom Surface	0	372000	1860	23.50	22.79	117.76%	0.549	0.647	036
NR n2			50	28	Bottom Surface	0	380000	1900	23.50	22.57	123.88%	0.464	0.575	-
NR n66	20MHz	SCS 15kHz Pv2 BPSK	1	1	Bottom Surface	0	344000	1720	23.00	22.80	104.71%	0.510	0.534	037
NR n66			50	28	Bottom Surface	0	354000	1770	23.00	22.73	106.41%	0.482	0.513	-
NR n38	20MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	516000	2580	22.50	22.05	110.92%	0.881	0.977	-
NR n38			1	1	Bottom Surface	0	519000	2595	22.50	22.11	109.40%	0.905	0.990	-
NR n38			1	1	Bottom Surface	0	522000	2610	22.50	22.12	109.14%	0.926	1.011	038
NR n38			25	13	Bottom Surface	0	516000	2580	22.50	21.88	115.35%	0.767	0.885	-
NR n38			25	13	Bottom Surface	0	519000	2595	22.50	21.95	113.50%	0.812	0.922	-
NR n38			25	13	Bottom Surface	0	522000	2610	22.50	21.96	113.24%	0.830	0.940	-
NR n38			100	0	Bottom Surface	0	522000	2610	22.00	20.95	127.35%	0.715	0.911	-
Repeated			1	1	Bottom Surface	0	522000	2610	22.50	22.12	109.14%	0.911	0.994	-
NR n41_PC2 & PC3	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	509202	2546.01	22.00	21.87	103.04%	0.864	0.890	-
NR n41_PC2 & PC3			1	1	Bottom Surface	0	518598	2592.99	22.00	21.81	104.47%	0.845	0.863	-
NR n41_PC2 & PC3			1	1	Bottom Surface	0	528000	2640	22.00	21.99	100.23%	0.919	0.921	039
NR n41_PC2 & PC3			135	69	Bottom Surface	0	509202	2546.01	22.00	21.79	104.95%	0.805	0.845	-
NR n41_PC2 & PC3			135	69	Bottom Surface	0	518598	2592.99	22.00	21.73	106.41%	0.771	0.820	-
NR n41_PC2 & PC3			135	69	Bottom Surface	0	528000	2640	22.00	21.86	103.28%	0.820	0.847	-
NR n41_PC2 & PC3			270	0	Bottom Surface	0	528000	2640	21.50	20.81	117.22%	0.746	0.874	-
Repeated			1	1	Bottom Surface	0	528000	2640	22.00	21.99	100.23%	0.903	0.905	-
NR n77_PC2 & PC3_FCC	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	662000	3930	18.50	18.19	107.40%	0.413	0.444	042
NR n77_PC2 & PC3_FCC			135	69	Bottom Surface	0	659000	3885	18.50	18.18	107.65%	0.351	0.378	-
NR n77 & n78FCC	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	633333	3499.995	19.00	18.70	107.15%	0.265	0.284	043
NR n77 & n78FCC			135	69	Bottom Surface	0	633333	3499.995	19.00	18.56	110.66%	0.235	0.260	-
NR n77 & n78(HPUE)FCC	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	633333	3499.995	20.00	19.73	106.41%	0.262	0.279	044
NR n77 & n78(HPUE)FCC			135	69	Bottom Surface	0	633333	3499.995	20.00	19.67	107.89%	0.232	0.250	-
NR n78FCC	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	650000	3750	19.00	18.53	111.43%	0.339	0.378	047
NR n78FCC			135	69	Bottom Surface	0	650000	3750	19.00	18.33	116.68%	0.250	0.292	-
NR n78(HPUE)FCC	100MHz	SCS 30kHz Pv2 BPSK	1	1	Bottom Surface	0	650000	3750	20.00	19.56	110.66%	0.324	0.359	048
NR n78(HPUE)FCC			135	69	Bottom Surface	0	650000	3750	20.00	19.34	116.41%	0.233	0.271	-

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

Note:

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

6.3 Reporting statements of conformity

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

6.4 Conclusion

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

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7 FCC MPE EVALUATION

7.1 FCC MPE limit

Limits for Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Averaging Time (minute)
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
300-1500	/	/	f/1500	30
1500-100000	/	/	1.0	30

f = frequency in MHz

* = Plane-wave equipment power density

Prediction of MPE limit at a given distance

$$S = PG / 4\pi R^2$$

Where: S = Power density

P = Power input to antenna

G = Power gain of the antenna in the direction of interest relative to an isotropic radiator

R = Distance to the center of radiation of the antenna

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7.2 Power density calculation (Worst Case)

Ant 5

Vendor 1

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
WCDMA / HSPA Band 2	1852.40	20	24.5	3.05	568.85	0.113	1.000	Pass	0.113
WCDMA / HSPA Band 4	1712.40	20	24.5	2.11	458.14	0.091	1.000	Pass	0.091
WCDMA / HSPA Band 5	826.40	20	24.5	-0.53	249.46	0.050	0.551	Pass	0.090
LTE-Band 2	1850.70	20	24	3.05	506.99	0.101	1.000	Pass	0.101
LTE-Band 4	1710.70	20	24	2.11	408.32	0.081	1.000	Pass	0.081
LTE-Band 5	824.70	20	25	-0.53	279.90	0.056	0.550	Pass	0.101
LTE-Band 7	2502.50	20	24	3.52	564.94	0.112	1.000	Pass	0.112
LTE-Band 12	699.70	20	24	-2.53	140.28	0.028	0.466	Pass	0.060
LTE-Band 13	779.50	20	24	0.26	266.69	0.053	0.520	Pass	0.102
LTE-Band 14	788.00	20	24	0.26	266.69	0.053	0.525	Pass	0.101
LTE-Band 17	706.50	20	24	-2.53	140.28	0.028	0.471	Pass	0.059
LTE-Band 25	1850.70	20	24	3.05	506.99	0.101	1.000	Pass	0.101
LTE-Band 26	821.50	20	25	-0.53	279.90	0.056	0.548	Pass	0.102
LTE-Band 30	2307.50	20	24	2.42	438.53	0.087	1.000	Pass	0.087
LTE-Band 38	2572.50	20	24	3.52	564.94	0.112	1.000	Pass	0.112
LTE-Band 41	2498.50	20	24	3.52	564.94	0.112	1.000	Pass	0.112
LTE-Band 41_PC2	2498.50	20	27	3.52	1127.20	0.224	1.000	Pass	0.224
LTE-Band 66	1710.70	20	24	2.11	408.32	0.081	1.000	Pass	0.081
LTE-Band 71	665.50	20	24	-2.53	140.28	0.028	0.444	Pass	0.063
NR n2	1850.70	20	24	3.05	506.99	0.101	1.000	Pass	0.101
NR n5	824.70	20	24	-0.53	222.33	0.044	0.550	Pass	0.080
NR n7	2502.50	20	24	3.52	564.94	0.112	1.000	Pass	0.112
NR n25	1850.70	20	24	3.05	506.99	0.101	1.000	Pass	0.101
NR n30	2307.50	20	24	2.42	438.53	0.087	1.000	Pass	0.087
NR n38	2572.50	20	24	3.52	564.94	0.112	1.000	Pass	0.112
NR n41_ULMIMO_PC3	2506.02	20	19.5	3.52	200.45	0.040	1.000	Pass	0.040
NR n41_ULMIMO_PC2	2506.02	20	22.5	3.52	399.94	0.080	1.000	Pass	0.080
NR n66	1710.70	20	24	2.11	408.32	0.081	1.000	Pass	0.081
NR n71	665.50	20	24	-2.53	140.28	0.028	0.444	Pass	0.063
NR n77_ULMIMO_PC3	3455.01	20	19.5	0.91	109.90	0.022	1.000	Pass	0.022
NR n77_ULMIMO_PC2	3455.01	20	22.5	0.91	219.28	0.044	1.000	Pass	0.044
NR n78_ULMIMO_PC3	3455.01	20	19.5	0.91	109.90	0.022	1.000	Pass	0.022
NR n78_ULMIMO_PC2	3455.01	20	22.5	0.91	219.28	0.044	1.000	Pass	0.044

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Ant 5 Vendor 2

Operation Mode	Evaluation Frequency (MHz)	Operation Distance (cm)	Max. Output Power Include Tolerance (dBm)	Antenna Gain (dBi)	Max. EIRP (mW)	Power Density (PD) (mW/cm ²)	Limit (mW/cm ²)	Pass / Fail	Power Density / Limit
WCDMA / HSPA Band 2	1852.40	20	24.5	1.39	388.15	0.077	1.000	Pass	0.077
WCDMA / HSPA Band 4	1712.40	20	24.5	0.04	284.45	0.057	1.000	Pass	0.057
WCDMA / HSPA Band 5	826.40	20	24.5	-2.44	160.69	0.032	0.551	Pass	0.058
LTE-Band 2	1850.70	20	24	1.39	345.94	0.069	1.000	Pass	0.069
LTE-Band 4	1710.70	20	24	0.04	253.51	0.050	1.000	Pass	0.050
LTE-Band 5	824.70	20	25	-2.44	180.30	0.036	0.550	Pass	0.065
LTE-Band 7	2502.50	20	24	0.29	268.53	0.053	1.000	Pass	0.053
LTE-Band 12	699.70	20	24	-2.29	148.25	0.030	0.466	Pass	0.063
LTE-Band 13	779.50	20	24	-0.94	202.30	0.040	0.520	Pass	0.077
LTE-Band 14	788.00	20	24	-0.94	202.30	0.040	0.525	Pass	0.077
LTE-Band 17	706.50	20	24	-2.29	148.25	0.030	0.471	Pass	0.063
LTE-Band 25	1850.70	20	24	1.39	345.94	0.069	1.000	Pass	0.069
LTE-Band 26	821.50	20	25	-2.44	180.30	0.036	0.548	Pass	0.066
LTE-Band 30	2307.50	20	24	-0.58	219.79	0.044	1.000	Pass	0.044
LTE-Band 38	2572.50	20	24	0.29	268.53	0.053	1.000	Pass	0.053
LTE-Band 41	2498.50	20	24	0.29	268.53	0.053	1.000	Pass	0.053
LTE-Band 41_PC2	2498.50	20	27	0.29	535.80	0.107	1.000	Pass	0.107
LTE-Band 66	1710.70	20	24	0.04	253.51	0.050	1.000	Pass	0.050
LTE-Band 71	665.50	20	24	-2.29	148.25	0.030	0.444	Pass	0.067
NR n2	1850.70	20	24	1.39	345.94	0.069	1.000	Pass	0.069
NR n5	824.70	20	24	-2.44	143.22	0.029	0.550	Pass	0.052
NR n7	2502.50	20	24	0.29	268.53	0.053	1.000	Pass	0.053
NR n25	1850.70	20	24	1.39	345.94	0.069	1.000	Pass	0.069
NR n30	2307.50	20	24	-0.58	219.79	0.044	1.000	Pass	0.044
NR n38	2572.50	20	24	0.29	268.53	0.053	1.000	Pass	0.053
NR n41_ULMIMO_PC3	2506.02	20	19.5	0.29	95.28	0.019	1.000	Pass	0.019
NR n41_ULMIMO_PC2	2506.02	20	22.5	0.29	190.11	0.038	1.000	Pass	0.038
NR n66	1710.70	20	24	0.04	253.51	0.050	1.000	Pass	0.050
NR n71	665.50	20	24	-2.29	148.25	0.030	0.444	Pass	0.067
NR n77_ULMIMO_PC3	3455.01	20	19.5	1.39	122.74	0.024	1.000	Pass	0.024
NR n77_ULMIMO_PC2	3455.01	20	22.5	1.39	244.91	0.049	1.000	Pass	0.049
NR n78_ULMIMO_PC3	3455.01	20	19.5	1.39	122.74	0.024	1.000	Pass	0.024
NR n78_ULMIMO_PC2	3455.01	20	22.5	1.39	244.91	0.049	1.000	Pass	0.049

Note:

For conservativeness, the lowest uplink frequency of each band is used to determine the MPE limit of that band.

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8 SIMULTANEOUS TRANSMISSION ANALYSIS

8.1 Simultaneous Transmission Scenarios:

Simultaneous Transmit Configurations	Combination
WWAN Ant5 + WWAN Ant8	ENDC
	Inter-band UL CA
	UL MIMO

Based on KDB 447498D01v06 section 7.2, the simultaneous transmission is compliant when The $[\Sigma \text{ of (the highest measured SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg} + [\Sigma \text{ of MPE ratios}]] \leq 1.0$.

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8.2 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.

8.3 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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8.4 Simultaneous transmission evaluation

Vendor 1

ENDC

	Exposure Position		FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN		WWAN	Summed
			Power Density / Limit		SAR/Limit	
LTE Band 2_Ant5	Bottom Surface	0	0.101	NR n77_FCC_Ant8	0.159	0.260
LTE Band 2_Ant5	Bottom Surface	0	0.101	NR n78_FCC_Ant8	0.159	0.260
LTE Band 5_Ant5	Bottom Surface	0	0.101	NR n2_Ant8	0.187	0.288
LTE Band 5_Ant5	Bottom Surface	0	0.101	NR n66_Ant8	0.236	0.337
LTE Band 5_Ant5	Bottom Surface	0	0.101	NR n77_FCC_Ant8	0.159	0.260
LTE Band 5_Ant5	Bottom Surface	0	0.101	NR n78_FCC_Ant8	0.159	0.260
LTE Band 7_Ant5	Bottom Surface	0	0.112	NR n77_FCC_Ant8	0.159	0.271
LTE Band 7_Ant5	Bottom Surface	0	0.112	NR n78_FCC_Ant8	0.159	0.271
LTE Band 12_Ant5	Bottom Surface	0	0.060	NR n2_Ant8	0.187	0.247
LTE Band 12_Ant5	Bottom Surface	0	0.060	NR n66_Ant8	0.236	0.295
LTE Band 12_Ant5	Bottom Surface	0	0.060	NR n77_FCC_Ant8	0.159	0.219
LTE Band 13_Ant5	Bottom Surface	0	0.102	NR n2_Ant8	0.187	0.289
LTE Band 13_Ant5	Bottom Surface	0	0.102	NR n66_Ant8	0.236	0.338
LTE Band 13_Ant5	Bottom Surface	0	0.102	NR n77_FCC_Ant8	0.159	0.261
LTE Band 14_Ant5	Bottom Surface	0	0.101	NR n2_Ant8	0.187	0.288
LTE Band 14_Ant5	Bottom Surface	0	0.101	NR n77_FCC_Ant8	0.159	0.260
LTE Band 30_Ant5	Bottom Surface	0	0.087	NR n77_FCC_Ant8	0.159	0.246
LTE Band 66_Ant5	Bottom Surface	0	0.081	NR n41_Ant8	0.393	0.474
LTE Band 66_Ant5	Bottom Surface	0	0.081	NR n77_FCC_Ant8	0.159	0.240
LTE Band 38_Ant5	Bottom Surface	0	0.112	NR n77_FCC_Ant8	0.159	0.271
LTE Band 41_Ant5	Bottom Surface	0	0.224	NR n41_Ant8	0.393	0.617
LTE Band 41_Ant5	Bottom Surface	0	0.224	NR n77_FCC_Ant8	0.159	0.383
NR n5_Ant5	Bottom Surface	0	0.080	LTE Band 2_Ant8	0.298	0.379
NR n5_Ant5	Bottom Surface	0	0.080	LTE Band 7_Ant8	0.684	0.765
NR n5_Ant5	Bottom Surface	0	0.080	LTE Band 30_Ant8	0.358	0.438
NR n5_Ant5	Bottom Surface	0	0.080	LTE Band 66_Ant8	0.439	0.520
NR n5_Ant5	Bottom Surface	0	0.080	LTE Band 48_Ant8	0.099	0.180
NR n66_Ant5	Bottom Surface	0	0.081	LTE Band 48_Ant8	0.099	0.181
NR n71_Ant5	Bottom Surface	0	0.063	LTE Band 2_Ant8	0.298	0.361
NR n71_Ant5	Bottom Surface	0	0.063	LTE Band 66_Ant8	0.439	0.502

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Inter-band ULCA

	Exposure Position		FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN		WWAN	Summed
			Power Density / Limit		SAR/Limit	
LTE Band 2_Ant5	Bottom Surface	0	0.101	LTE Band 48_Ant8	0.099	0.200
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 2_Ant8	0.298	0.399
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 4_Ant8	0.298	0.399
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 7_Ant8	0.684	0.786
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 30_Ant8	0.358	0.459
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 66_Ant8	0.439	0.541
LTE Band 5_Ant5	Bottom Surface	0	0.101	LTE Band 48_Ant8	0.099	0.201
LTE Band 12_Ant5	Bottom Surface	0	0.060	LTE Band 2_Ant8	0.298	0.358
LTE Band 12_Ant5	Bottom Surface	0	0.060	LTE Band 4_Ant8	0.298	0.358
LTE Band 12_Ant5	Bottom Surface	0	0.060	LTE Band 30_Ant8	0.358	0.417
LTE Band 12_Ant5	Bottom Surface	0	0.060	LTE Band 66_Ant8	0.439	0.499
LTE Band 13_Ant5	Bottom Surface	0	0.102	LTE Band 2_Ant8	0.298	0.400
LTE Band 13_Ant5	Bottom Surface	0	0.102	LTE Band 4_Ant8	0.298	0.400
LTE Band 13_Ant5	Bottom Surface	0	0.102	LTE Band 66_Ant8	0.439	0.542
LTE Band 13_Ant5	Bottom Surface	0	0.102	LTE Band 48_Ant8	0.099	0.202
LTE Band 14_Ant5	Bottom Surface	0	0.101	LTE Band 2_Ant8	0.298	0.399
LTE Band 14_Ant5	Bottom Surface	0	0.101	LTE Band 30_Ant8	0.358	0.459
LTE Band 14_Ant5	Bottom Surface	0	0.101	LTE Band 66_Ant8	0.439	0.540
LTE Band 26_FCC_Ant5	Bottom Surface	0	0.102	LTE Band 25_Ant8	0.150	0.252
LTE Band 66_Ant5	Bottom Surface	0	0.081	LTE Band 48_Ant8	0.099	0.181

UL MIMO

	Exposure Position		FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN		WWAN	Summed
			Power Density / Limit		SAR/Limit	
NR n41_Ant5	Bottom Surface	0	0.040	NR n41_Ant8	0.393	0.432
NR n77_FCC_Ant5	Bottom Surface	0	0.022	NR n77_FCC_Ant8	0.159	0.181
NR n78_FCC_Ant5	Bottom Surface	0	0.022	NR n78_FCC_Ant8	0.159	0.181

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Vendor 2

ENDC

	Exposure Position		FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN Power Density / Limit		WWAN SAR/Limit	Summed
LTE Band 2_Ant5	Bottom Surface	0	0.069	NR n77_FCC_Ant8	0.278	0.346
LTE Band 2_Ant5	Bottom Surface	0	0.069	NR n78_FCC_Ant8	0.236	0.305
LTE Band 5_Ant5	Bottom Surface	0	0.065	NR n2_Ant8	0.404	0.470
LTE Band 5_Ant5	Bottom Surface	0	0.065	NR n66_Ant8	0.334	0.399
LTE Band 5_Ant5	Bottom Surface	0	0.065	NR n77_FCC_Ant8	0.278	0.343
LTE Band 5_Ant5	Bottom Surface	0	0.065	NR n78_FCC_Ant8	0.236	0.302
LTE Band 7_Ant5	Bottom Surface	0	0.053	NR n77_FCC_Ant8	0.278	0.331
LTE Band 7_Ant5	Bottom Surface	0	0.053	NR n78_FCC_Ant8	0.236	0.290
LTE Band 12_Ant5	Bottom Surface	0	0.063	NR n2_Ant8	0.404	0.468
LTE Band 12_Ant5	Bottom Surface	0	0.063	NR n66_Ant8	0.334	0.397
LTE Band 12_Ant5	Bottom Surface	0	0.063	NR n77_FCC_Ant8	0.278	0.341
LTE Band 13_Ant5	Bottom Surface	0	0.077	NR n2_Ant8	0.404	0.482
LTE Band 13_Ant5	Bottom Surface	0	0.077	NR n66_Ant8	0.334	0.411
LTE Band 13_Ant5	Bottom Surface	0	0.077	NR n77_FCC_Ant8	0.278	0.355
LTE Band 14_Ant5	Bottom Surface	0	0.077	NR n2_Ant8	0.404	0.481
LTE Band 14_Ant5	Bottom Surface	0	0.077	NR n77_FCC_Ant8	0.278	0.354
LTE Band 30_Ant5	Bottom Surface	0	0.044	NR n77_FCC_Ant8	0.278	0.321
LTE Band 66_Ant5	Bottom Surface	0	0.050	NR n41_Ant8	0.576	0.626
LTE Band 66_Ant5	Bottom Surface	0	0.050	NR n77_FCC_Ant8	0.278	0.328
LTE Band 38_Ant5	Bottom Surface	0	0.053	NR n77_FCC_Ant8	0.278	0.331
LTE Band 41_Ant5	Bottom Surface	0	0.107	NR n41_Ant8	0.576	0.682
LTE Band 41_Ant5	Bottom Surface	0	0.107	NR n77_FCC_Ant8	0.278	0.384
NR n5_Ant5	Bottom Surface	0	0.052	LTE Band 2_Ant8	0.517	0.569
NR n5_Ant5	Bottom Surface	0	0.052	LTE Band 7_Ant8	0.672	0.724
NR n5_Ant5	Bottom Surface	0	0.052	LTE Band 30_Ant8	0.450	0.502
NR n5_Ant5	Bottom Surface	0	0.052	LTE Band 66_Ant8	0.472	0.524
NR n5_Ant5	Bottom Surface	0	0.052	LTE Band 48_Ant8	0.158	0.209
NR n66_Ant5	Bottom Surface	0	0.050	LTE Band 48_Ant8	0.158	0.208
NR n71_Ant5	Bottom Surface	0	0.067	LTE Band 2_Ant8	0.517	0.583
NR n71_Ant5	Bottom Surface	0	0.067	LTE Band 66_Ant8	0.472	0.538

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Inter-band ULCA

			FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN		WWAN	Summed
Exposure Position			Power Density / Limit		SAR/Limit	
LTE Band 2_Ant5	Bottom Surface	0	0.069	LTE Band 48_Ant8	0.158	0.226
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 2_Ant8	0.517	0.582
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 4_Ant8	0.429	0.494
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 7_Ant8	0.672	0.737
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 30_Ant8	0.450	0.515
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 66_Ant8	0.472	0.537
LTE Band 5_Ant5	Bottom Surface	0	0.065	LTE Band 48_Ant8	0.158	0.223
LTE Band 12_Ant5	Bottom Surface	0	0.063	LTE Band 2_Ant8	0.517	0.580
LTE Band 12_Ant5	Bottom Surface	0	0.063	LTE Band 4_Ant8	0.429	0.492
LTE Band 12_Ant5	Bottom Surface	0	0.063	LTE Band 30_Ant8	0.450	0.513
LTE Band 12_Ant5	Bottom Surface	0	0.063	LTE Band 66_Ant8	0.472	0.535
LTE Band 13_Ant5	Bottom Surface	0	0.077	LTE Band 2_Ant8	0.517	0.594
LTE Band 13_Ant5	Bottom Surface	0	0.077	LTE Band 4_Ant8	0.429	0.506
LTE Band 13_Ant5	Bottom Surface	0	0.077	LTE Band 66_Ant8	0.472	0.549
LTE Band 13_Ant5	Bottom Surface	0	0.077	LTE Band 48_Ant8	0.158	0.235
LTE Band 14_Ant5	Bottom Surface	0	0.077	LTE Band 2_Ant8	0.517	0.594
LTE Band 14_Ant5	Bottom Surface	0	0.077	LTE Band 30_Ant8	0.450	0.527
LTE Band 14_Ant5	Bottom Surface	0	0.077	LTE Band 66_Ant8	0.472	0.549
LTE Band 26_FCC_Ant5	Bottom Surface	0	0.066	LTE Band 25_Ant8	0.256	0.322
LTE Band 66_Ant5	Bottom Surface	0	0.050	LTE Band 48_Ant8	0.158	0.208

ULMIMO

			FCC Reported SAR			Scenario1
			1		2	1+2
			WWAN		WWAN	Summed
Exposure Position			Power Density / Limit		SAR/Limit	
NR n41_Ant5	Bottom Surface	0	0.019	NR n41_Ant8	0.576	0.595
NR n77_FCC_Ant5	Bottom Surface	0	0.024	NR n77_FCC_Ant8	0.278	0.302
NR n78_FCC_Ant5	Bottom Surface	0	0.024	NR n78_FCC_Ant8	0.236	0.261

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8.5 Conclusion

The simultaneous transmission is compliant because the $[\Sigma \text{ of (the highest measured SAR for each standalone antenna configuration, adjusted for maximum tune-up tolerance) / 1.6 W/kg}] + [\Sigma \text{ of MPE ratios}] \leq 1.0$.

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9 INSTRUMENTS LIST

Equipment List					
Manufacturer	Device	Type	Serial number	Date of last calibration	Date of next calibration
SPEAG	Data acquisition Electronics	DAE4	856	Apr/21/2022	Apr/20/2023
SPEAG	Dosimetric E-Field Probe	EX3DV4	7686	Sep/27/2022	Sep/26/2023
SPEAG	System Validation Dipole	D750V3	1015	Oct/09/2023	Oct/08/2023
SPEAG	System Validation Dipole	D835V2	4d063	Sep/26/2022	Sep/25/2023
SPEAG	System Validation Dipole	D1750V2	1008	Sep/27/2022	Sep/26/2023
SPEAG	System Validation Dipole	D1900V2	5d173	Apr/28/2022	Apr/27/2023
SPEAG	System Validation Dipole	D2300V2	1023	Oct/09/2022	Oct/08/2023
SPEAG	System Validation Dipole	D2600V2	1058	Aug/24/2022	Aug/23/2023
SPEAG	System Validation Dipole	D3500V2	1009	Oct/09/2022	Oct/08/2023
SPEAG	System Validation Dipole	D3700V2	1057	Nov/22/2022	Nov/21/2023
SPEAG	System Validation Dipole	D3900V2	1032	Nov/22/2022	Nov/21/2023
SPEAG	Dielectric Assessment Kit	DAKS-3.5	1053	Feb/28/2022	Feb/27/2023
Agilent	MXG Analog Signal Generator	SMB100A03	182012	Jun/13/2022	Jun/12/2023
Agilent	Dual-directional coupler	772D	MY46151258	Oct/03/2022	Oct/02/2023
Agilent	Dual-directional coupler	778D	MY46151242	Aug/30/2022	Aug/29/2023
EMCI	Amplifier	ZHL-42	980189	Calibration not required	Calibration not required
EMCI	Amplifier	ZVE-8G	980190	Calibration not required	Calibration not required
R&S	Power Meter	NRX	105651	Nov/25/2022	Nov/24/2023
R&S	Power Sensor	NRP6A	104246	Nov/22/2022	Nov/21/2023
R&S	Power Sensor	NRP6A	104247	Nov/22/2022	Nov/21/2023
SPEAG	Software	DASY 8 V16.0.2.83	N/A	Calibration not required	Calibration not required
SPEAG	Phantom	ELI	N/A	Calibration not required	Calibration not required
Anritsu	Radio Communication Test	MT8820C	6201061014	Aug/19/2022	Aug/18/2023
Keysight	UXM 5G Wireless Test Platform	E7515B	MY60192462	Dec/20/2022	Dec/19/2023
LKM	Digital thermometer	DTM3000	EC14010603	Sep/27/2022	Sep/26/2023
TECPEL	Digital thermometer	DTM-303A	TP130075	Jan/11/2023	Jan/10/2024

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10 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.)	2.49%	N	1	1	0.64	0.43	1.59%	1.07%	M
Liquid Conductivity (mea.)	2.19%	N	1	1	0.6	0.49	1.31%	1.07%	M
Combined standard uncertainty		RSS					11.90%	11.80%	
Expan uncertainty (95% confidence interval), K=2							23.79%	23.61%	

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

A	c	D	e		f	g	h=c * f / e	i=c * g / e	k
Source of Uncertainty	Tolerance/ Uncertainty	Probability Distributio	Div	Div Value	ci (1g)	ci (10g)	Standard uncertainty	Standard uncertainty	vi, or Veff
Measurement system									
Probe calibration	6.00%	N	1	1	1	1	6.00%	6.00%	∞
<i>Isotropy , Axial</i>	3.50%	R	$\sqrt{3}$	1.732	1	1	2.02%	2.02%	∞
<i>Isotropy, Hemispherical</i>	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.)	2.37%	N	1	1	0.64	0.43	1.52%	1.02%	M
Liquid Conductivity (mea.)	4.83%	N	1	1	0.6	0.49	2.90%	2.37%	M
Combined standard uncertainty		RSS					11.88%	11.70%	
Expant uncertainty (95% confidence interval), K=2							23.75%	23.39%	

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DASY6 Uncertainty Budget
According to IEC/IEEE 62209-1528
(Frequency band: 6GHz - 10GHz range)

a	b	c	d		e	e	f=b * e / d	f=b * e / d
Source of Uncertainty	Uncertainty Value (±%)	Probability Distribution	Div.	Div. Value	(ci) 1g	(ci) 10g	Std. uncertainty (1g) (±%)	Std. uncertainty (10g) (±%)
Measurement system errors								
Probe calibration	18.6	N	2	2	1	1	9.3	9.3
Probe Calibration Drift	1.7	R	√3	1.732	1	1	1.0	1.0
Probe Linearity	4.7	R	√3	1.732	1	1	2.7	2.7
Broadband Signal	2.8	R	√3	1.732	1	1	1.6	1.6
Probe Isotropy	7.6	R	√3	1.732	1	1	4.4	4.4
Data Acquisition	0.3	N	1	1	1	1	0.3	0.3
RF Ambient	1.8	N	1	1	1	1	1.8	1.8
Probe positioning	0.2	N	1	1	0.67	0.67	0.1	0.1
Data Processing	3.5	N	1	1	1	1	3.5	3.5
Phantom and device errors								
Conductivity (meas.)DAK	2.5	N	1	1	0.78	0.71	2.0	1.8
Conductivity (temp.)BB	2.4	R	√3	1.732	0.78	0.71	1.1	1.0
Phantom Permittivity	14.0	R	√3	1.732	0.5	0.5	4.0	4.0
Distance DUT - TSL	2.0	N	1	1	2	2	4.0	4.0
Device Positioning (±0.5mm)	1.0	N	1	1	1	1	1.0	1.0
Device Holder	3.6	N	1	1	1	1	3.6	3.6
DUT Modulationm	2.4	R	√3	1.732	1	1	1.4	1.4
Time-average SAR	0.0	R	√3	1.732	1	1	0.0	0.0
DUT drift	2.5	N	1	1	1	1	2.5	2.5
Val Antenna Unc.	0.0	N	1	1	1	1	0.0	0.0
Unc. Input Power	0.0	N	1	1	1	1	0.0	0.0
Correction to the SAR results								
Deviation to Target	1.90	N	1	1	1	0.84	1.9	1.6
SAR scaling		R	√3	1.732	1	1	0.0	0.0
Combined Std. uncertainty							14.0	13.9
Expanded Std. uncertainty (95% confidence interval), K=2							28.0	27.8

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**cDASY6 Module mmWave Uncertainty Budget for PD
Evaluation Distances to the Antennas $\geq \lambda / 5$
In Compliance with IEC/IEEE 63195**

a	b	c	d		e	f=b * e / d	g
Source of Uncertainty	Uncertainty Value (+dB)	Probability Distribution	Div.	Div. Value	ci	Std. uncertainty (+dB)	(vi) Veff
Uncertainty terms dependent on the measurement system							
Probe calibration	0.49	N	1	1	1	0.49	∞
Probe correction	0.00	R	√3	1.732	1	0.00	∞
Frequency response (BW ≤ 1GHz)	0.20	R	√3	1.732	1	0.12	∞
Sensor cross coupling	0.00	R	√3	1.732	1	0.00	∞
Isotropy	0.50	R	√3	1.732	1	0.29	∞
Linearity	0.20	R	√3	1.732	1	0.12	∞
Probe scattering	0.00	R	√3	1.732	1	0.00	∞
Probe positioning offset	0.30	R	√3	1.732	1	0.17	∞
Probe positioning repeatability	0.04	R	√3	1.732	1	0.02	∞
Sensor mechanical offset	0.00	R	√3	1.732	1	0.00	∞
Probe spatial resolution	0.00	R	√3	1.732	1	0.00	∞
Field impedance dependence	0.00	R	√3	1.732	1	0.00	∞
Amplitude and phase drift	0.00	R	√3	1.732	1	0.00	∞
Amplitude and phase noise	0.04	R	√3	1.732	1	0.02	∞
Measurement area truncation	0.00	R	√3	1.732	1	0.00	∞
Data acquisition	0.03	N	1	1	1	0.03	∞
Sampling	0.00	R	√3	1	1	0.00	∞
Field reconstruction	2.00	R	√3	1.732	1	1.15	∞
Forward transformation	0.00	R	√3	1.732	1	0.00	∞
Power density scaling	-	R	√3	1.732	1	-	∞
Spatial averaging	0.10	R	√3	1.732	1	0.06	∞
System detection limit	0.04	R	√3	1.732	1	0.02	∞
Uncertainty terms dependent on the DUT and environmental factors							
Probe coupling with DUT	0.00	R	√3	1.732	1	0.00	∞
Modulation response	0.40	R	√3	1.732	1	0.23	∞
Integration time	0.00	R	√3	1.732	1	0.00	∞
Response time	0.00	R	√3	1.732	1	0.00	∞
Device holder influence	0.10	R	√3	1.732	1	0.06	∞
DUT alignment	0.00	R	√3	1.732	1	0.00	∞
RF ambient conditions	0.04	R	√3	1.732	1	0.02	∞
Ambient reflections	0.04	R	√3	1.732	1	0.02	∞
Immunity / secondary reception	0.00	R	√3	1.732	1	0.00	∞
Drift of the DUT	-	R	√3	1.732	1	-	∞
Combined Std. uncertainty						1.33	
Expanded Std. uncertainty (95% confidence interval), K=2						2.67	

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11 SAR MEASUREMENT RESULTS

ID: 001

Report No. : TESA2212000671E5

Measurement Report_LTE Band 2(20MHz)_Body_Bottom Surface_CH 19100_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1900.0, 19100	8.8	1.458	40.913

Hardware Setup

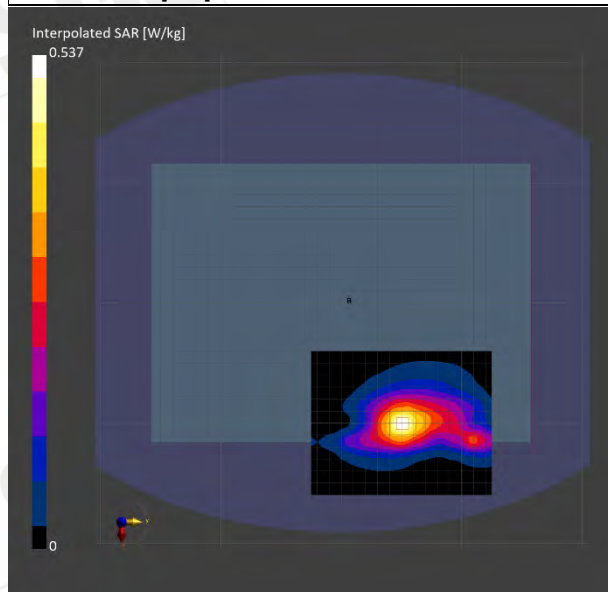
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	0.431	0.438
psSAR8g [W/kg]	0.262	0.279
psSAR10g [W/kg]	0.243	0.261
Power Drift [dB]	-0.01	0.02
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		11.2



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ID: 002

Report No. : TESA2212000671E5

Measurement Report_LTE Band 4(20MHz)_Body_Bottom Surface_CH 20050_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 20050	9.19	1.403	41.039

Hardware Setup

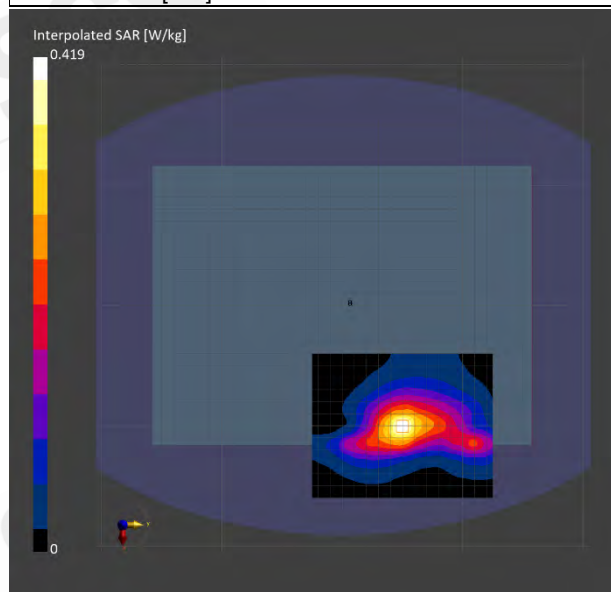
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	0.339	0.361
psSAR8g [W/kg]	0.210	0.231
psSAR10g [W/kg]	0.195	0.217
Power Drift [dB]	0.02	0.05
M2/M1 [%]		63.9
Dist 3dB Peak [mm]		12.9



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ID: 003

Report No. : TESA2212000671E5

Measurement Report_LTE Band 7(20MHz)_Body_Bottom Surface_CH 21100_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2535.0, 21100	7.98	1.958	40.005

Hardware Setup

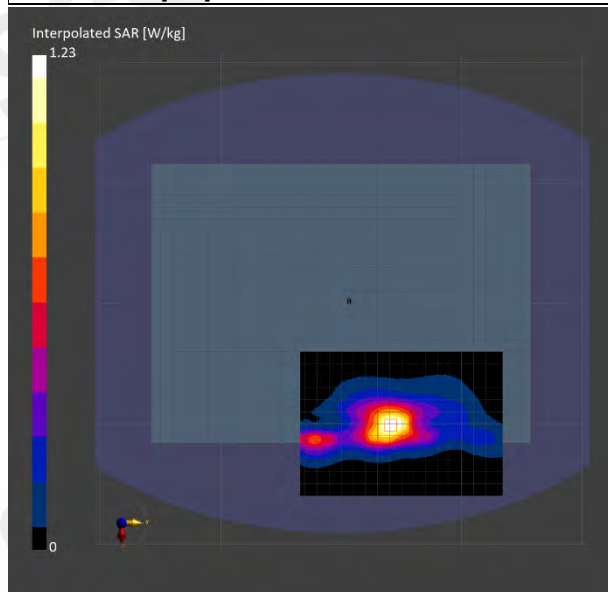
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	0.988	1.09
psSAR8g [W/kg]	0.561	0.620
psSAR10g [W/kg]	0.516	0.573
Power Drift [dB]	-0.01	-0.05
M2/M1 [%]		83.1
Dist 3dB Peak [mm]		11.5



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ID: 004

Report No. : TESA2212000671E5

Measurement Report_LTE Band 25(20MHz)_Body_Bottom Surface_CH 26590_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1905.0, 26590	8.8	1.458	40.913

Hardware Setup

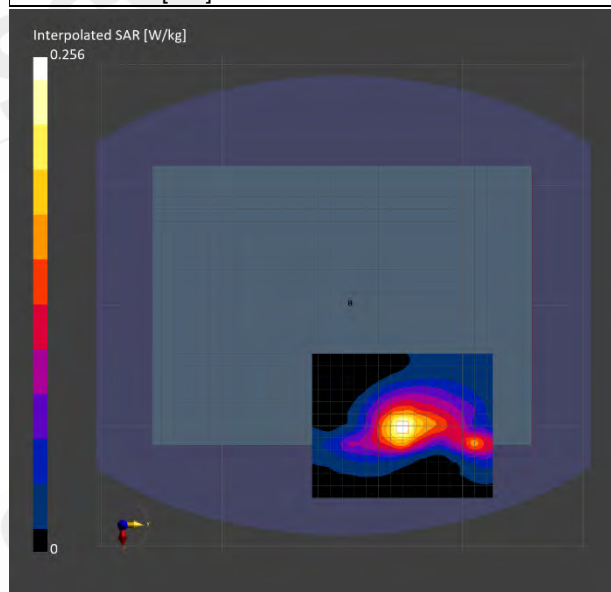
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	0.206	0.222
psSAR8g [W/kg]	0.125	0.140
psSAR10g [W/kg]	0.116	0.131
Power Drift [dB]	-0.02	0.01
M2/M1 [%]		64.5
Dist 3dB Peak [mm]		13.6



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ID: 005

Report No. : TESA2212000671E5

Measurement Report_LTE Band 30(10MHz)_Body_Bottom Surface_CH 27710_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2310.0, 27710	8.54	1.756	40.362

Hardware Setup

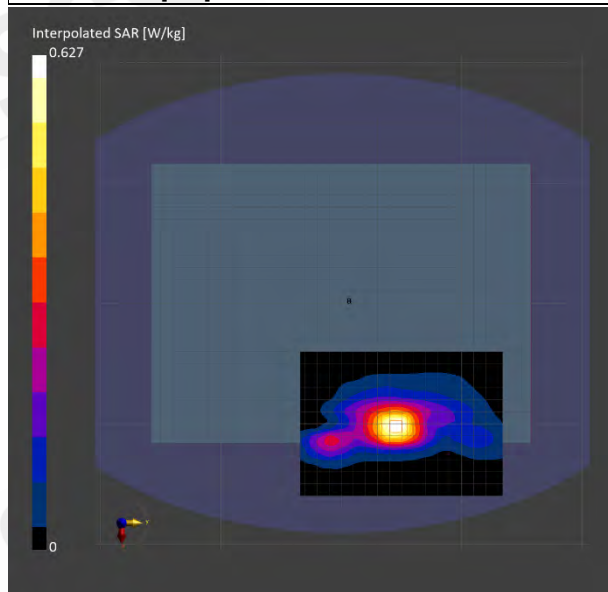
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	0.509	0.546
psSAR8g [W/kg]	0.300	0.322
psSAR10g [W/kg]	0.277	0.299
Power Drift [dB]	0.03	0.01
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		12.0



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ID: 006

Report No. : TESA2212000671E5

Measurement Report_LTE Band 66(20MHz)_Body_Bottom Surface_CH 132072_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 132072	9.19	1.403	41.039

Hardware Setup

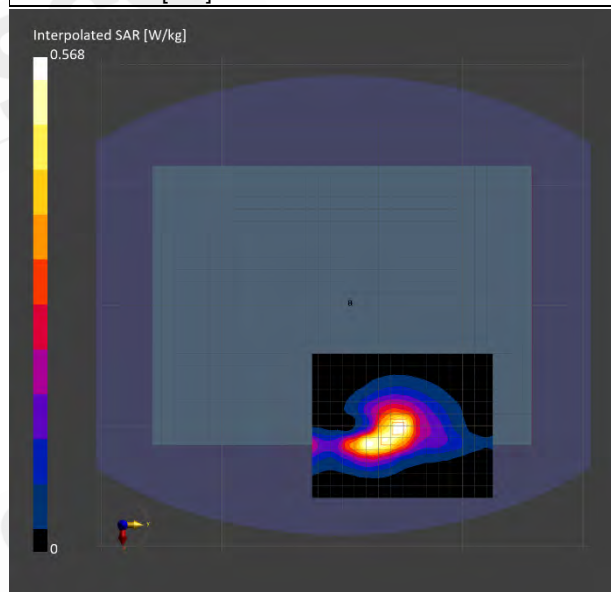
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI V8.0	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	0.458	0.536
psSAR8g [W/kg]	0.289	0.332
psSAR10g [W/kg]	0.271	0.309
Power Drift [dB]	0.05	-0.04
M2/M1 [%]		59.6
Dist 3dB Peak [mm]		12.2



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ID: 007

Report No. : TESA2212000671E5

Measurement Report_LTE Band 41(20MHz)_Body_Bottom Surface_CH 41055_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2636.5, 41055	7.98	2.053	39.875

Hardware Setup

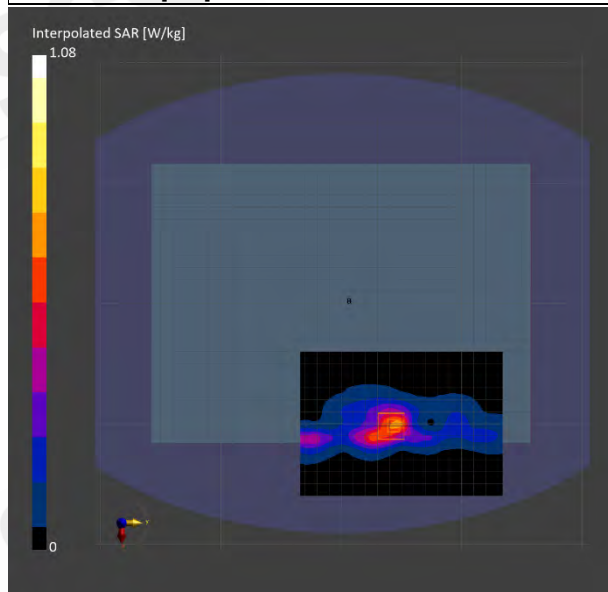
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	0.529	0.578
psSAR8g [W/kg]	0.299	0.316
psSAR10g [W/kg]	0.275	0.292
Power Drift [dB]	0.02	0.05
M2/M1 [%]		53.5
Dist 3dB Peak [mm]		11.2



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Report No. : TESA2212000671E5

Measurement Report_LTE Band 41(20MHz)_Body_Bottom Surface_CH 40620_QPSK_1-0_0mm_Ant
8_HPUE

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2593.0, 40620	7.98	2.012	39.931

Hardware Setup

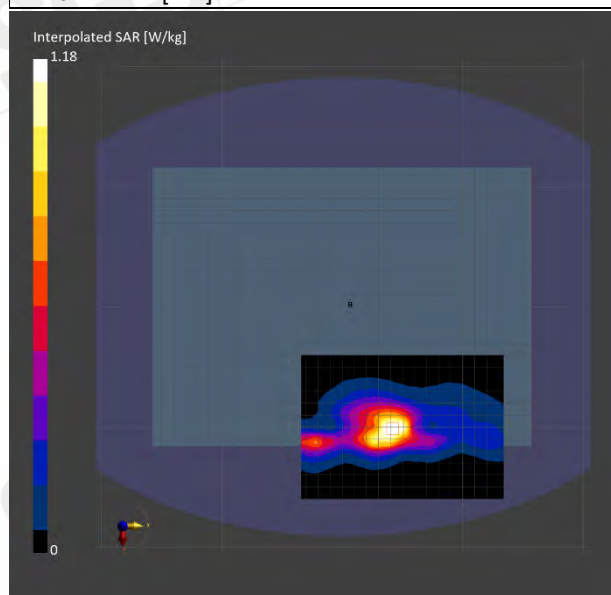
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	0.961	1.05
psSAR8g [W/kg]	0.550	0.593
psSAR10g [W/kg]	0.506	0.547
Power Drift [dB]	-0.05	0.02
M2/M1 [%]		55.5
Dist 3dB Peak [mm]		11.2



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Report No. : TESA2212000671E5

Measurement Report_LTE Band 48(20MHz)_Body_Bottom Surface_CH 55830_QPSK_1-0_0mm_Ant
8_IC_HPUE

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3609.0, 55830	7.3	3.087	38.717

Hardware Setup

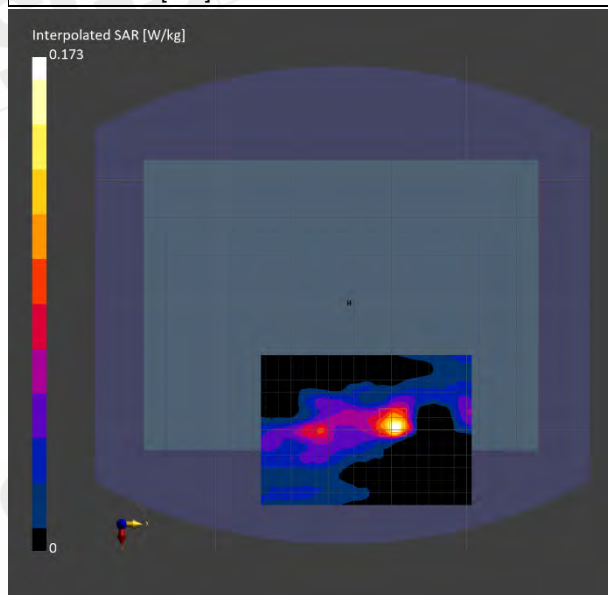
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.122	0.113
psSAR8g [W/kg]	0.055	0.054
psSAR10g [W/kg]	0.049	0.049
Power Drift [dB]	0.03	0.01
M2/M1 [%]		58.4
Dist 3dB Peak [mm]		7.4



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ID: 012

Report No. : TESA2212000671E5

Measurement Report_NR n2(20MHz)_Body_Bottom Surface_CH 372000_SCS 15kHz Pi/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1860.0, 372000	8.8	1.456	40.913

Hardware Setup

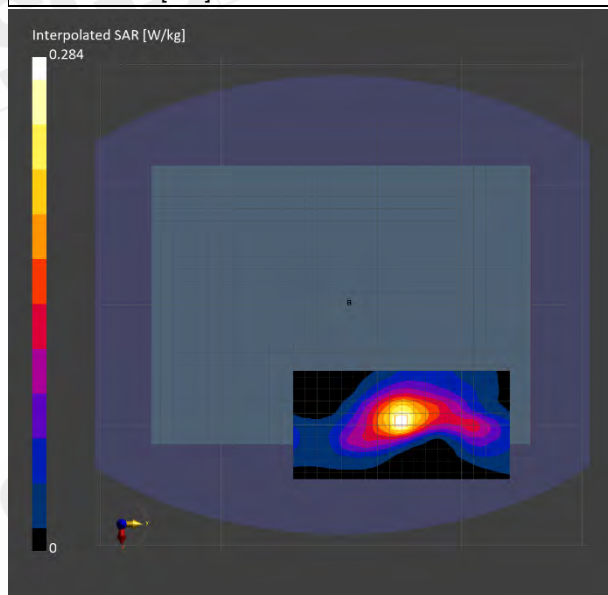
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	0.230	0.254
psSAR8g [W/kg]	0.141	0.160
psSAR10g [W/kg]	0.131	0.150
Power Drift [dB]	0.05	0.05
M2/M1 [%]		59.0
Dist 3dB Peak [mm]		12.5



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ID: 013

Report No. : TESA2212000671E5

Measurement Report_NR n66(20MHz)_Body_Bottom Surface_CH 344000_SCS 15kHz Pi/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 344000	9.19	1.403	41.039

Hardware Setup

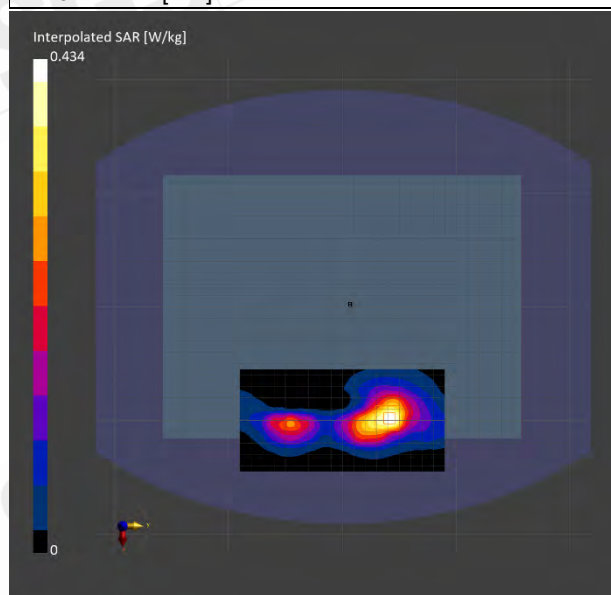
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	90.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	0.355	0.360
psSAR8g [W/kg]	0.218	0.229
psSAR10g [W/kg]	0.202	0.215
Power Drift [dB]	0.01	0.03
M2/M1 [%]		62.7
Dist 3dB Peak [mm]		12.9



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ID: 014

Report No. : TESA2212000671E5

Measurement Report_NR n38(20MHz)_Body_Bottom Surface_CH 522000_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2610.0, 522000	7.98	2.028	39.909

Hardware Setup

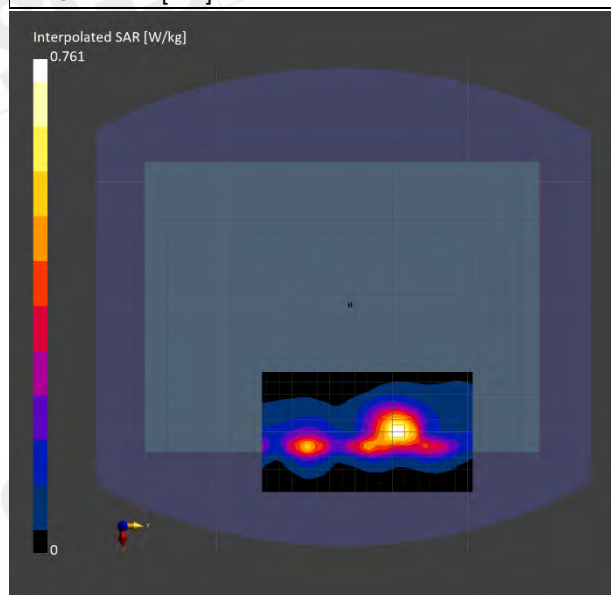
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	0.579	0.414
psSAR8g [W/kg]	0.315	0.226
psSAR10g [W/kg]	0.289	0.206
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		54.3
Dist 3dB Peak [mm]		9.0



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ID: 016

Report No. : TESA2212000671E5

Measurement Report_NR n41(100MHz)_Body_Bottom Surface_CH 518598_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8_HPUE

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2592.99, 518598	7.98	2.012	39.931

Hardware Setup

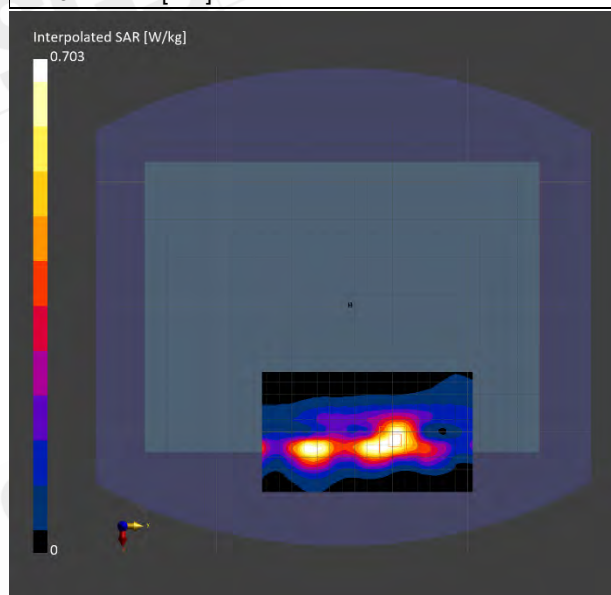
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	0.563	0.609
psSAR8g [W/kg]	0.322	0.339
psSAR10g [W/kg]	0.297	0.313
Power Drift [dB]	0.01	0.03
M2/M1 [%]		54.7
Dist 3dB Peak [mm]		11.5



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ID: 017

Report No. : TESA2212000671E5

Measurement Report_NR n77(100MHz)_Body_Bottom Surface_CH 659000_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3885.0, 659000	6.94	3.374	38.401

Hardware Setup

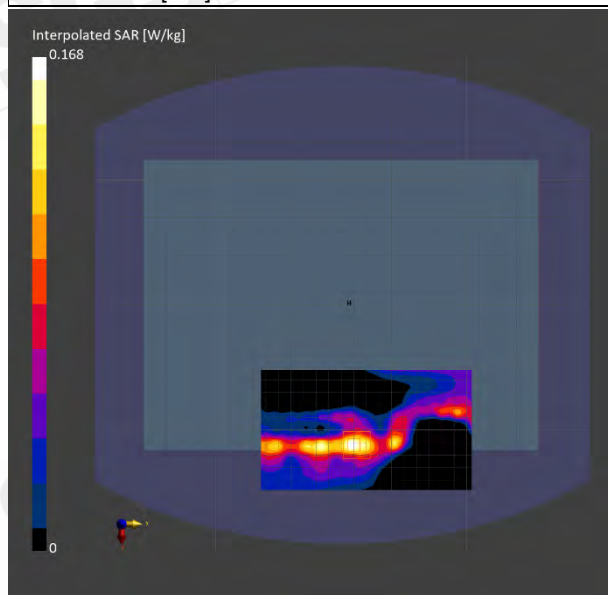
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.119	0.100
psSAR8g [W/kg]	0.054	0.050
psSAR10g [W/kg]	0.049	0.046
Power Drift [dB]	-0.02	0.05
M2/M1 [%]		59.5
Dist 3dB Peak [mm]		8.3



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ID: 019

Report No. : TESA2212000671E5

Measurement Report_NR n77&n78(100MHz)_Body_Bottom Surface_CH 633333_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.4	2.974	38.842

Hardware Setup

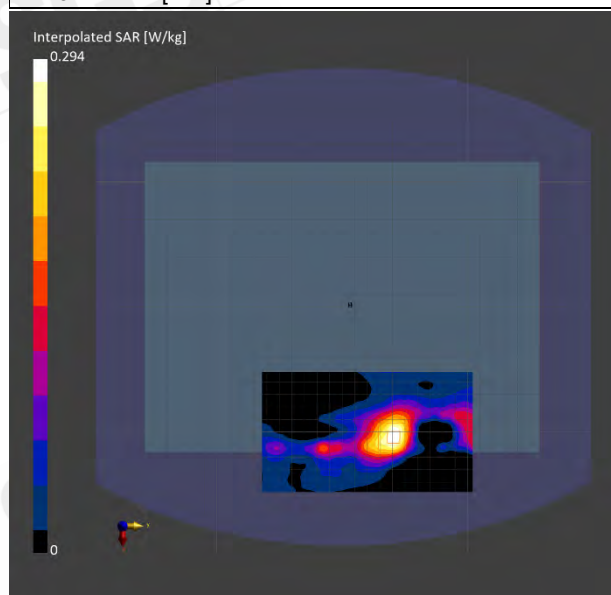
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.225	0.237
psSAR8g [W/kg]	0.119	0.122
psSAR10g [W/kg]	0.109	0.112
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		58.7
Dist 3dB Peak [mm]		9.9



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ID: 020

Report No. : TESA2212000671E5

Measurement Report_NR n77&n78(100MHz)_Body_Bottom Surface_CH 633333_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8_HPUE

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.4	2.974	38.842

Hardware Setup

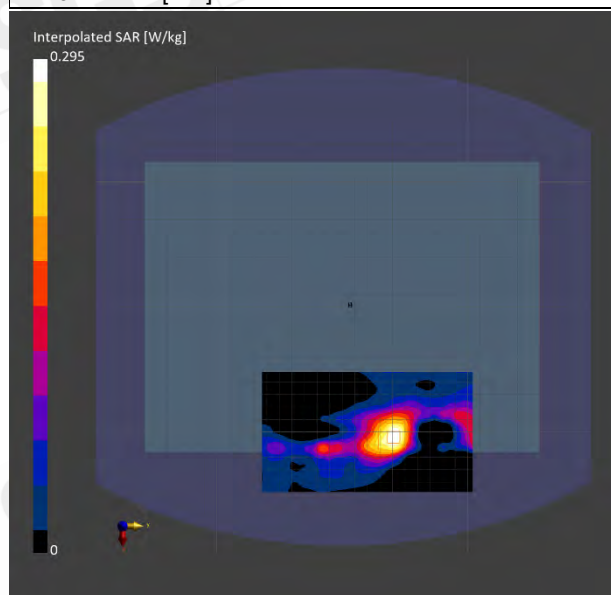
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.227	0.231
psSAR8g [W/kg]	0.119	0.120
psSAR10g [W/kg]	0.109	0.110
Power Drift [dB]	0.04	-0.01
M2/M1 [%]		57.8
Dist 3dB Peak [mm]		8.6



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ID: 023

Report No. : TESA2212000671E5

Measurement Report_NR n78(100MHz)_Body_Bottom Surface_CH 650000_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.3	3.234	38.556

Hardware Setup

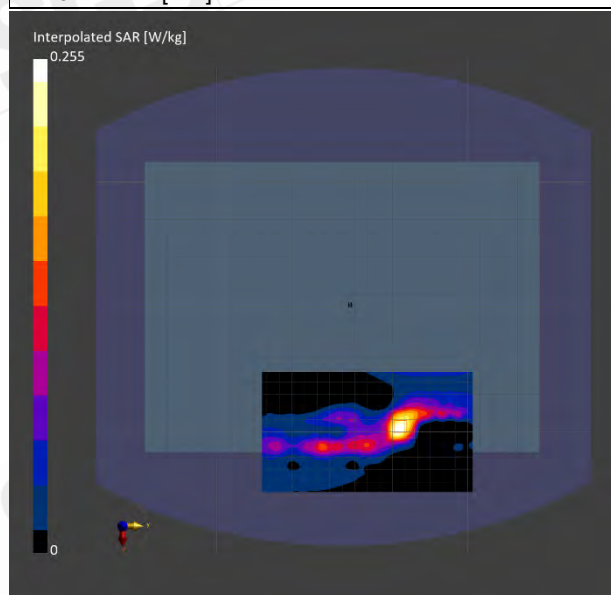
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.188	0.186
psSAR8g [W/kg]	0.087	0.083
psSAR10g [W/kg]	0.077	0.074
Power Drift [dB]	-0.03	0.01
M2/M1 [%]		58.5
Dist 3dB Peak [mm]		7.1



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ID: 024

Report No. : TESA2212000671E5

Measurement Report_NR n78(100MHz)_Body_Bottom Surface_CH 650000_SCS 30kHz Pi/2 BPSK_1-1_0mm_Ant 8_HPUE

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.3	3.234	38.556

Hardware Setup

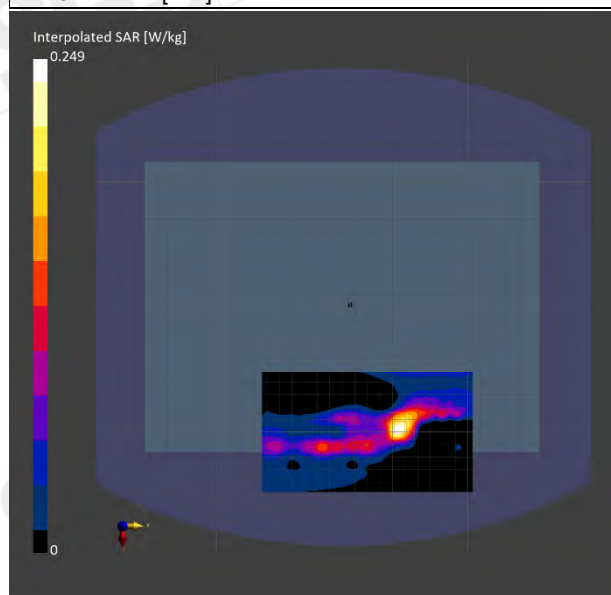
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	0.180	0.173
psSAR8g [W/kg]	0.083	0.076
psSAR10g [W/kg]	0.074	0.068
Power Drift [dB]	-0.02	0.03
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		6.0



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ID: 025

Report No. : TESA2212000671E5

Measurement Report_LTE Band 2 (20MHz)_Body_Bottom Surface_CH 19100_QPSK_50-25_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1860.0, 18700	8.8	1.419	39.923

Hardware Setup

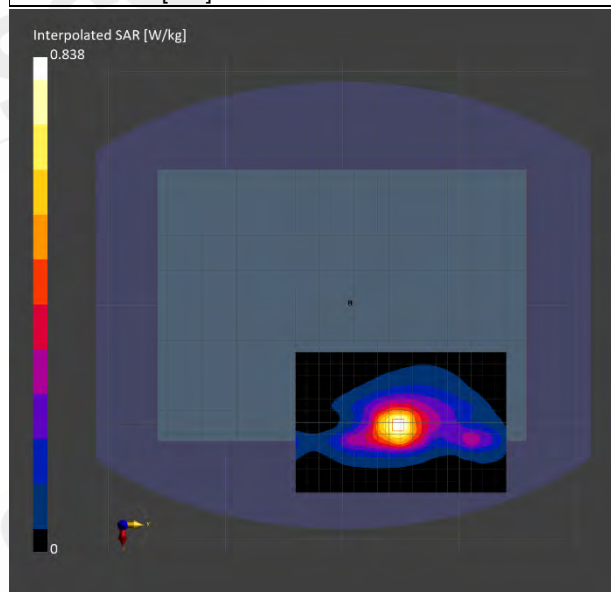
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	0.683	0.749
psSAR8g [W/kg]	0.417	0.455
psSAR10g [W/kg]	0.387	0.423
Power Drift [dB]	0.01	0.05
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		11.2



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ID: 026

Report No. : TESA2212000671E5

Measurement Report_LTE Band 4 (20MHz)_Body_Bottom Surface_CH 20050_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 20050	9.19	1.369	40.049

Hardware Setup

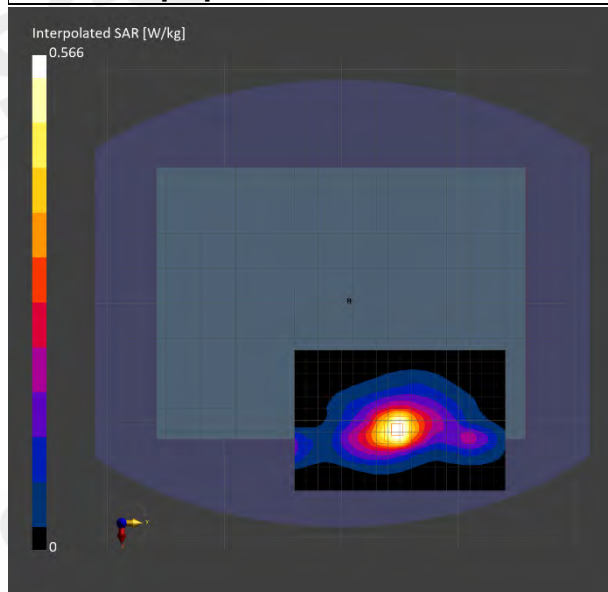
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	0.482	0.519
psSAR8g [W/kg]	0.304	0.318
psSAR10g [W/kg]	0.284	0.297
Power Drift [dB]	0.02	0.04
M2/M1 [%]		57.9
Dist 3dB Peak [mm]		12.9



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ID: 027

Report No. : TESA2212000671E5

Measurement Report_LTE Band 7 (20MHz)_Body_Bottom Surface_CH 21100_QPSK_1-0_0mm_Ant 8

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2535.0, 21100	7.98	1.911	39.015

Hardware Setup

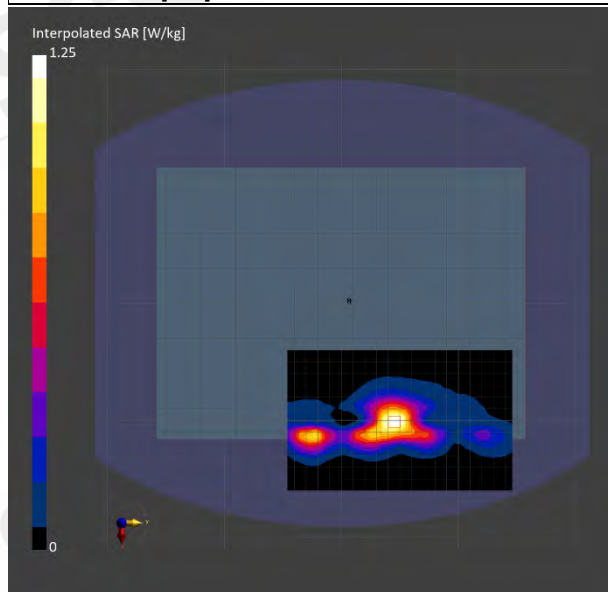
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	0.991	1.07
psSAR8g [W/kg]	0.562	0.581
psSAR10g [W/kg]	0.517	0.523
Power Drift [dB]	0.03	-0.01
M2/M1 [%]		54.9
Dist 3dB Peak [mm]		8.0



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ID: 028

Report No. : TESA2212000671E5

Measurement Report_LTE Band 25 (20MHz)_Body_Bottom Surface_CH 26590_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1905.0, 26590	8.8	1.42	39.923

Hardware Setup

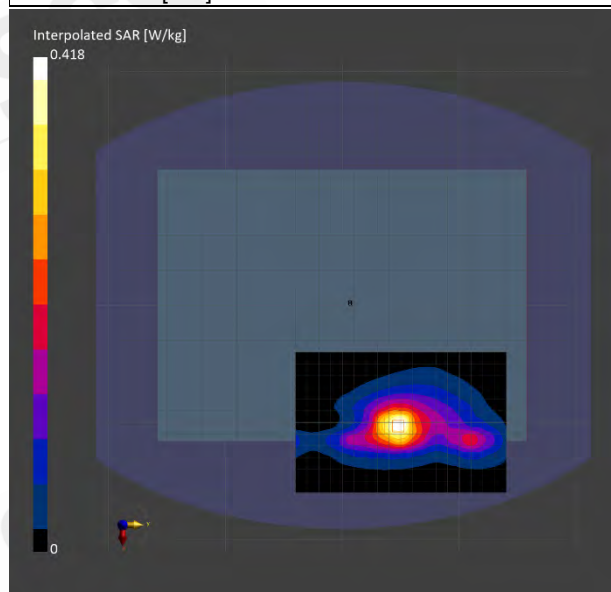
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	0.342	0.380
psSAR8g [W/kg]	0.209	0.232
psSAR10g [W/kg]	0.194	0.215
Power Drift [dB]	-0.01	0.03
M2/M1 [%]		58.6
Dist 3dB Peak [mm]		13.7



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ID: 029

Report No. : TESA2212000671E5

Measurement Report_LTE Band 30 (10MHz)_Body_Bottom Surface_CH 27710_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2310.0, 27710	8.54	1.713	39.372

Hardware Setup

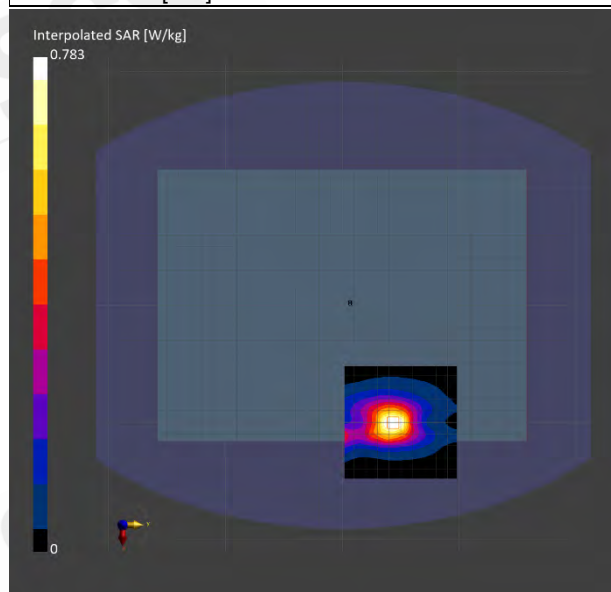
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	0.640	0.688
psSAR8g [W/kg]	0.369	0.396
psSAR10g [W/kg]	0.339	0.366
Power Drift [dB]	0.04	0.05
M2/M1 [%]		54.6
Dist 3dB Peak [mm]		12.7



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Report No. : TESA2212000671E5

Measurement Report_LTE Band 66 (20MHz)_Body_Bottom Surface_CH 132072_QPSK_1-0_0mm_Ant 8

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 132072	9.19	1.369	40.049

Hardware Setup

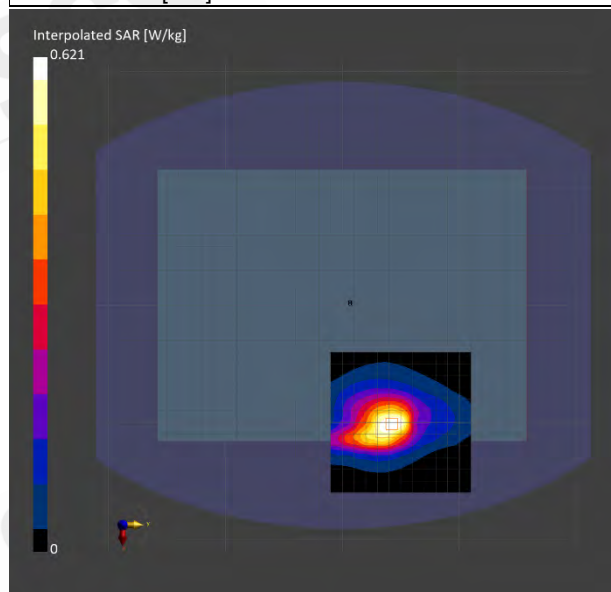
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	0.524	0.575
psSAR8g [W/kg]	0.337	0.363
psSAR10g [W/kg]	0.315	0.339
Power Drift [dB]	0.02	0.03
M2/M1 [%]		59.4
Dist 3dB Peak [mm]		13.2



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Report No. : TESA2212000671E5

Measurement Report_LTE Band 41 (20MHz)_Body_Bottom Surface_CH 41055_QPSK_1-0_0mm_Ant 8

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2636.5, 41055	7.98	2.004	38.885

Hardware Setup

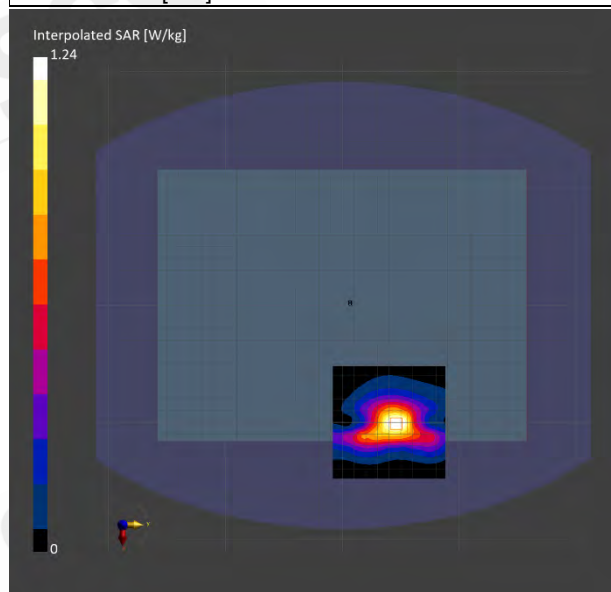
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	0.993	1.06
psSAR8g [W/kg]	0.560	0.598
psSAR10g [W/kg]	0.515	0.551
Power Drift [dB]	0.01	-0.03
M2/M1 [%]		81.7
Dist 3dB Peak [mm]		11.0



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Report No. : TESA2212000671E5

Measurement Report_LTE Band 41 (20MHz)_Body_Bottom Surface_CH 40620_QPSK_1-0_0mm_Ant
8_HPUE

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2593.0, 40620	7.98	1.964	38.941

Hardware Setup

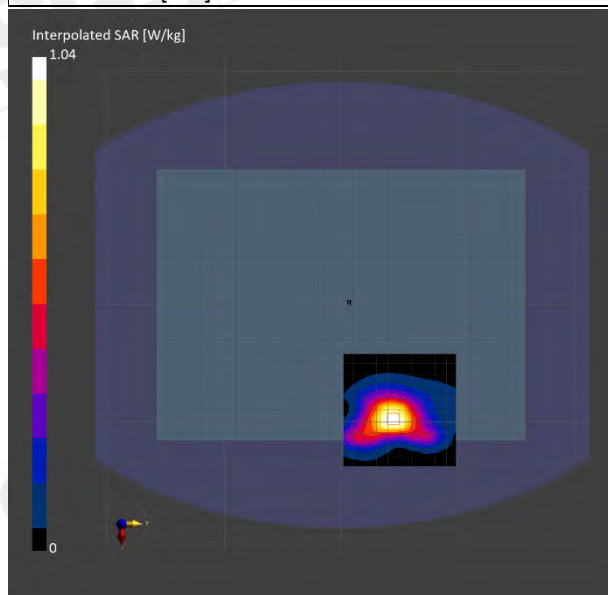
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.5
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	0.848	0.877
psSAR8g [W/kg]	0.483	0.500
psSAR10g [W/kg]	0.444	0.461
Power Drift [dB]	0.06	0.02
M2/M1 [%]		82.3
Dist 3dB Peak [mm]		12.0



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ID: 035

Report No. : TESA2212000671E5

Measurement Report_LTE Band 48 (20MHz)_Body_Bottom Surface_CH 55830_QPSK_1-0_0mm_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3609.0, 55830	7.3	3.013	37.727

Hardware Setup

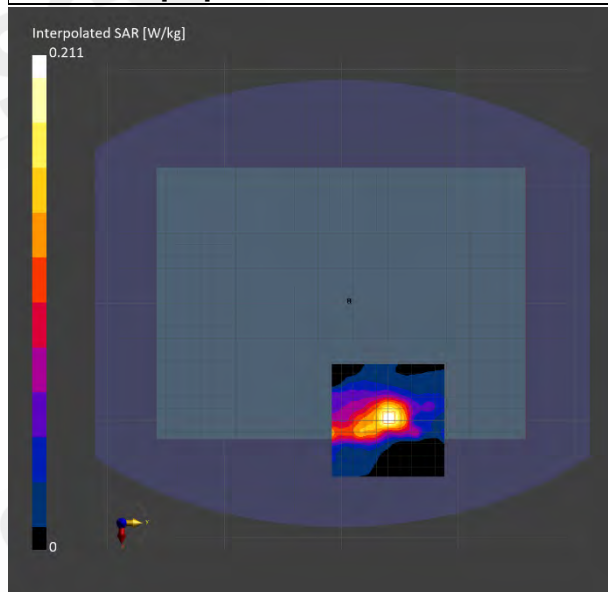
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 96.0	28.0 x 28.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 1.4
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.157	0.179
psSAR8g [W/kg]	0.079	0.094
psSAR10g [W/kg]	0.072	0.086
Power Drift [dB]	0.05	-0.03
M2/M1 [%]		75.3
Dist 3dB Peak [mm]		8.3



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ID: 036

Report No. : TESA2212000671E5

Measurement Report_NR n2 (20MHz)_Body_Bottom Surface_CH 372000_SCS 15KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1860.0, 372000	8.8	1.419	39.923

Hardware Setup

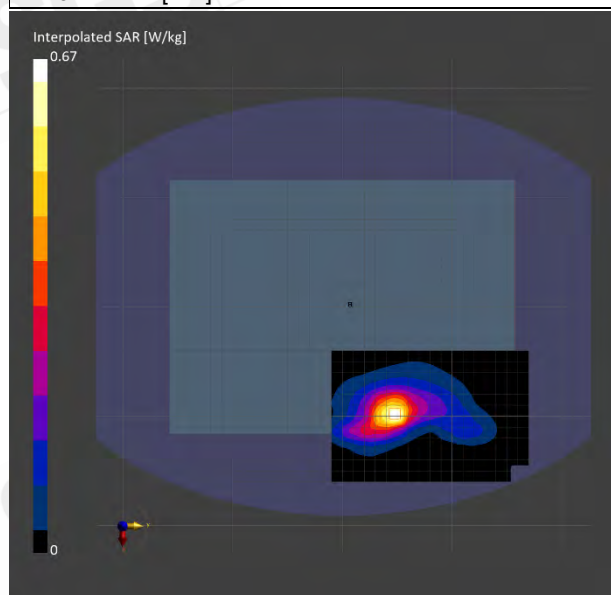
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	0.534	0.549
psSAR8g [W/kg]	0.319	0.335
psSAR10g [W/kg]	0.296	0.312
Power Drift [dB]	0.01	0.02
M2/M1 [%]		56.5
Dist 3dB Peak [mm]		12.9



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ID: 037

Report No. : TESA2212000671E5

Measurement Report_NR n66 (20MHz)_Body_Bottom Surface_CH 344000_SCS 15KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	1720.0, 344000	9.19	1.369	40.049

Hardware Setup

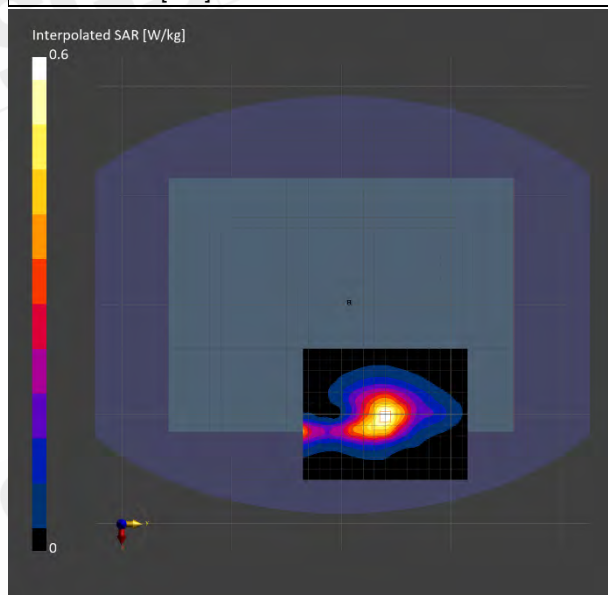
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 150.0	32.0 x 32.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	8.0 x 8.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	0.492	0.510
psSAR8g [W/kg]	0.308	0.323
psSAR10g [W/kg]	0.288	0.302
Power Drift [dB]	0.03	0.04
M2/M1 [%]		61.4
Dist 3dB Peak [mm]		13.8



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ID: 038

Report No. : TESA2212000671E5

Measurement Report_NR n38 (20MHz)_Body_Bottom Surface_CH 522000_SCS 30KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2610.0, 522000	7.98	1.979	38.919

Hardware Setup

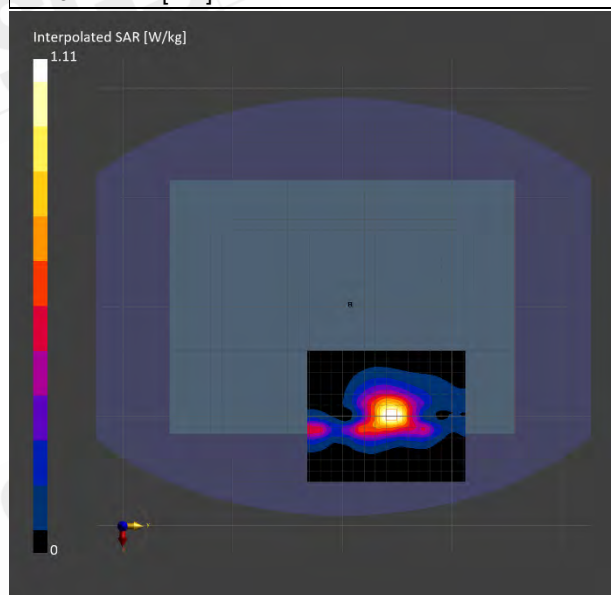
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	0.890	0.926
psSAR8g [W/kg]	0.500	0.526
psSAR10g [W/kg]	0.459	0.486
Power Drift [dB]	0.05	0.04
M2/M1 [%]		52.2
Dist 3dB Peak [mm]		12.0



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ID: 039

Report No. : TESA2212000671E5

Measurement Report_NR n41 (100MHz)_Body_Bottom Surface_CH 528000_SCS 30KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	2640.0, 528000	7.98	2.007	38.881

Hardware Setup

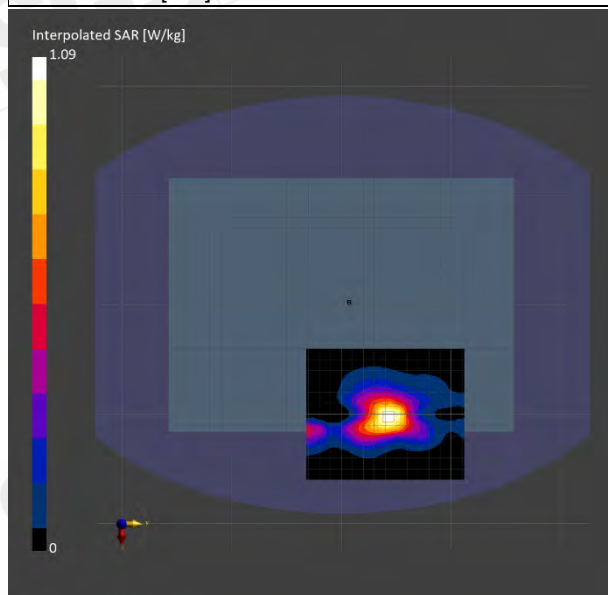
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	0.871	0.919
psSAR8g [W/kg]	0.495	0.524
psSAR10g [W/kg]	0.455	0.485
Power Drift [dB]	0.03	0.02
M2/M1 [%]		52.0
Dist 3dB Peak [mm]		12.2



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ID: 042

Report No. : TESA2212000671E5

Measurement Report_NR n77 (100MHz)_Body_Bottom Surface_CH 662000_SCS 30KHZ PI/2 BPSK_1-1_0mm_HPUE_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3930.0, 662000	6.94	3.34	37.36

Hardware Setup

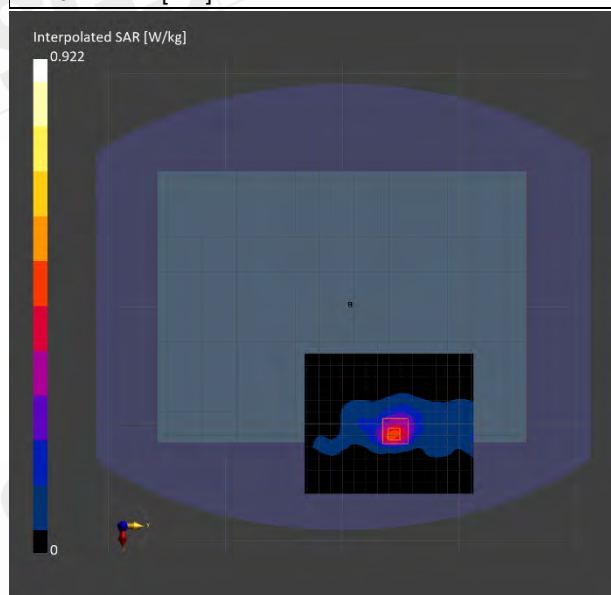
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.380	0.413
psSAR8g [W/kg]	0.180	0.201
psSAR10g [W/kg]	0.163	0.183
Power Drift [dB]	-0.04	-0.05
M2/M1 [%]		53.0
Dist 3dB Peak [mm]		8.3



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ID: 043

Report No. : TESA2212000671E5

Measurement Report_NR n77&n78 (100MHz)_Body_Bottom Surface_CH 633333_SCS 30KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.4	2.902	37.852

Hardware Setup

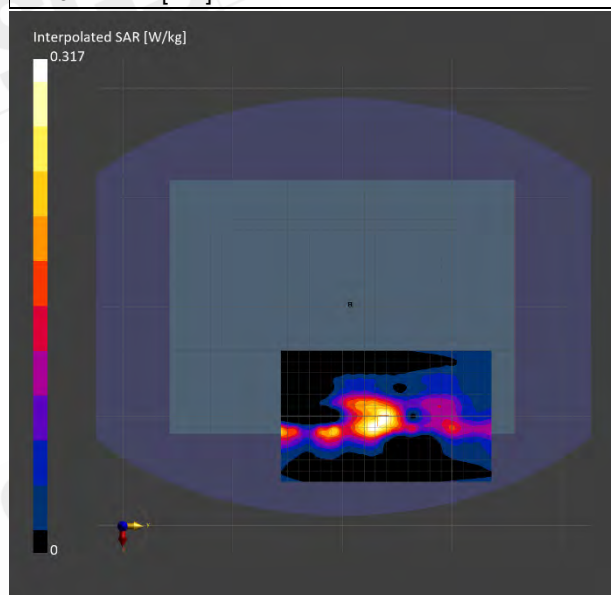
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.234	0.265
psSAR8g [W/kg]	0.126	0.138
psSAR10g [W/kg]	0.116	0.127
Power Drift [dB]	-0.04	0.03
M2/M1 [%]		56.7
Dist 3dB Peak [mm]		8.1



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ID: 044

Report No. : TESA2212000671E5

Measurement Report_NR n77&n78 (100MHz)_Body_Bottom Surface_CH 633333_SCS 30KHZ PI/2 BPSK_1-1_0mm_HPUE_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3499.995, 633333	7.4	2.902	37.852

Hardware Setup

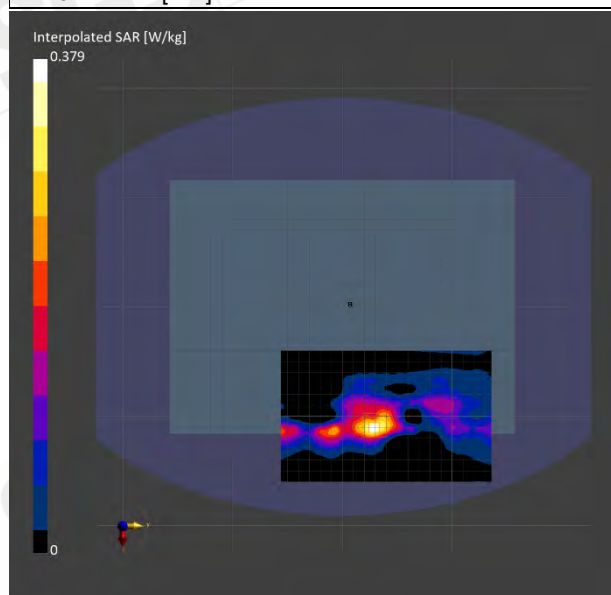
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.269	0.262
psSAR8g [W/kg]	0.130	0.135
psSAR10g [W/kg]	0.118	0.125
Power Drift [dB]	0.01	-0.02
M2/M1 [%]		56.4
Dist 3dB Peak [mm]		9.0



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ID: 047

Report No. : TESA2212000671E5

Measurement Report_NR n78 (100MHz)_Body_Bottom Surface_CH 650000_SCS 30KHZ PI/2 BPSK_1-1_0mm_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.3	3.157	37.566

Hardware Setup

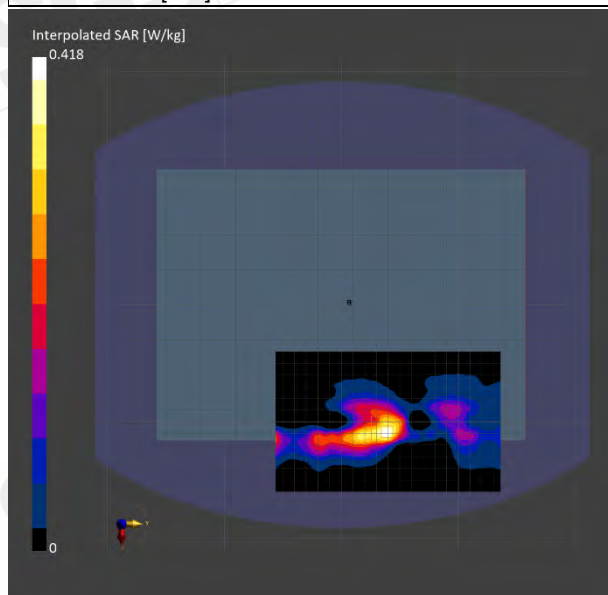
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.304	0.339
psSAR8g [W/kg]	0.147	0.167
psSAR10g [W/kg]	0.134	0.152
Power Drift [dB]	0.04	-0.02
M2/M1 [%]		53.8
Dist 3dB Peak [mm]		6.1



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ID: 048

Report No. : TESA2212000671E5

Measurement Report_NR n78 (100MHz)_Body_Bottom Surface_CH 650000_SCS 30KHZ PI/2 BPSK_1-1_0mm_HPUE_Ant 8

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Frequency [MHz], Channel Number	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	Bottom Surface, 0.00	3750.0, 650000	7.3	3.157	37.566

Hardware Setup

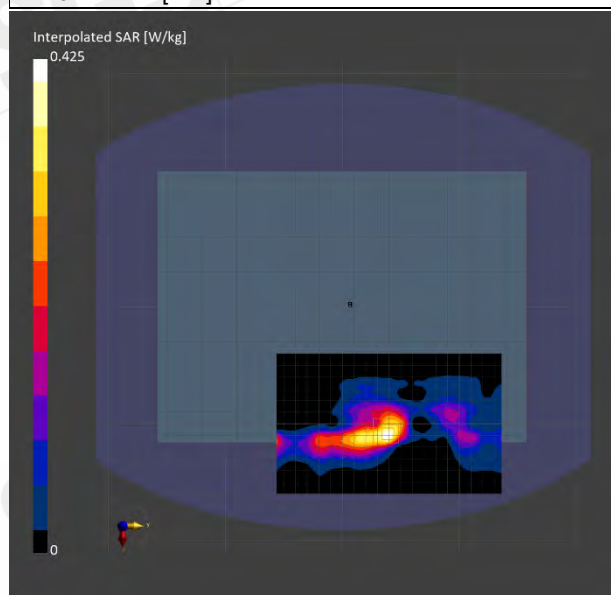
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 192.0	30.0 x 30.0 x 28.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 4.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	0.307	0.324
psSAR8g [W/kg]	0.147	0.158
psSAR10g [W/kg]	0.134	0.144
Power Drift [dB]	0.06	0.01
M2/M1 [%]		54.1
Dist 3dB Peak [mm]		6.1



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12 SAR SYSTEM CHECK RESULTS

Report No. : TESA2212000671E5

Measurement Report

Dipole_D750-SN:1015

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	10.65	0.914	42.855

Hardware Setup

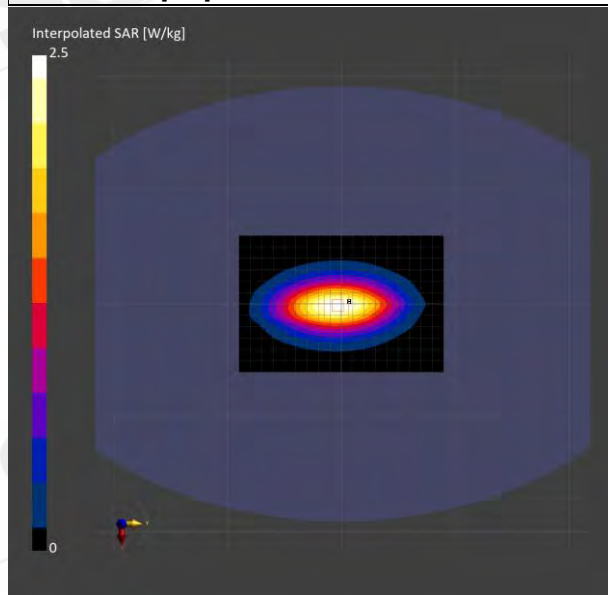
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	2.17	2.14
psSAR8g [W/kg]	1.53	1.51
psSAR10g [W/kg]	1.45	1.43
Power Drift [dB]	-0.06	-0.01
M2/M1 [%]		69.8
Dist 3dB Peak [mm]		19.5



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D835-SN:4d063

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	10.37	0.934	42.468

Hardware Setup

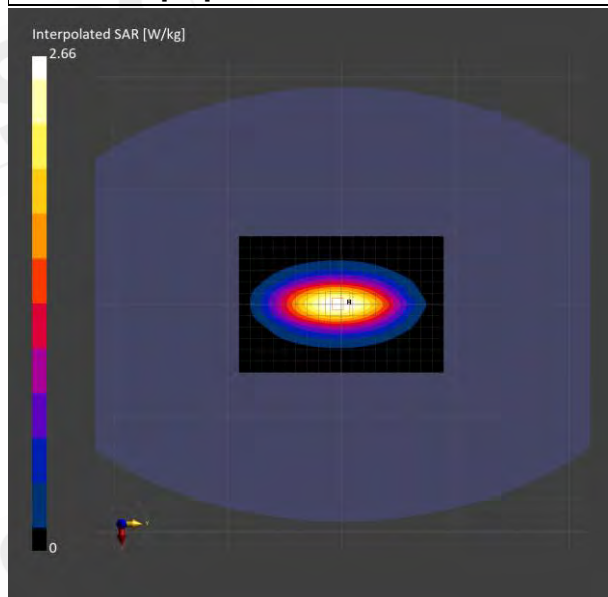
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	2.30	2.34
psSAR8g [W/kg]	1.60	1.60
psSAR10g [W/kg]	1.51	1.52
Power Drift [dB]	-0.68	-0.20
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		20.6



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D1750-SN:1008

Ambient temperature: 23.6°C; Liquid temperature: 23.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	9.19	1.421	40.992

Hardware Setup

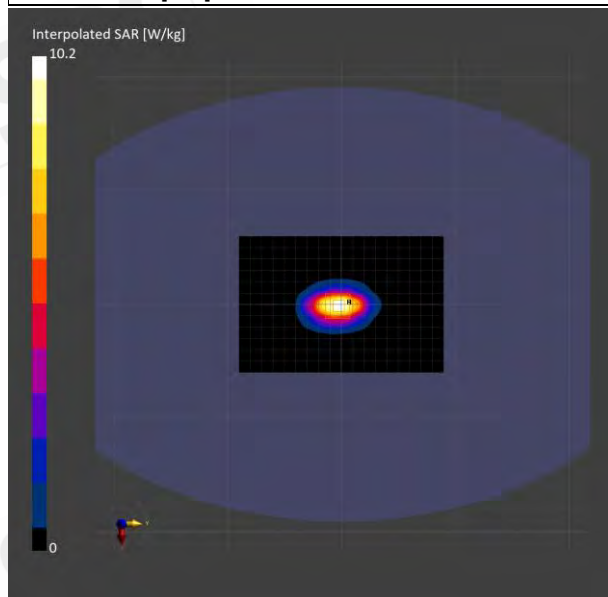
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-09	2023-02-09
psSAR1g [W/kg]	8.20	8.98
psSAR8g [W/kg]	4.78	5.31
psSAR10g [W/kg]	4.39	4.91
Power Drift [dB]	-0.39	-0.29
M2/M1 [%]		57.4
Dist 3dB Peak [mm]		10.0



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D1900-SN:5d173

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.8	1.458	40.913

Hardware Setup

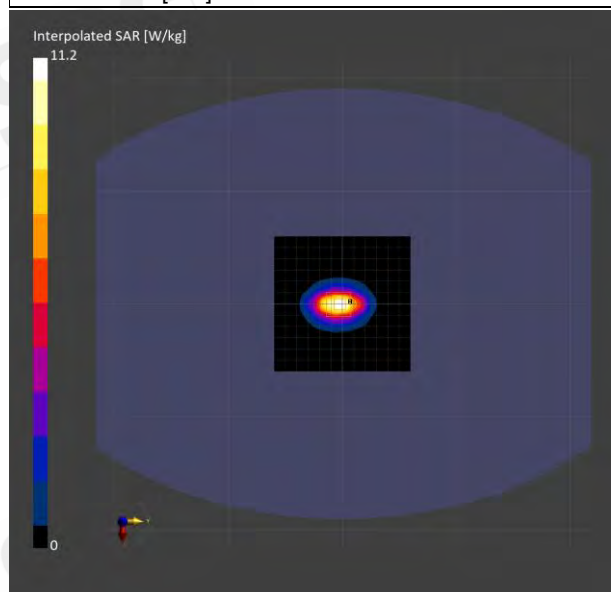
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	8.84	9.55
psSAR8g [W/kg]	4.99	5.51
psSAR10g [W/kg]	4.56	5.08
Power Drift [dB]	-0.28	-0.26
M2/M1 [%]		57.0
Dist 3dB Peak [mm]		10.1



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D2300-SN:1023

Ambient temperature: 23.5°C; Liquid temperature: 22.9°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.54	1.748	40.38

Hardware Setup

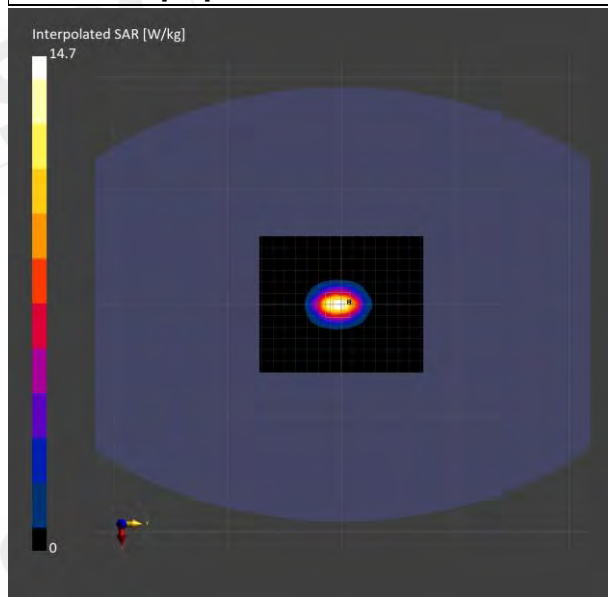
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-10	2023-02-10
psSAR1g [W/kg]	11.3	12.0
psSAR8g [W/kg]	5.97	6.50
psSAR10g [W/kg]	5.41	5.93
Power Drift [dB]	-0.26	-0.23
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		9.1



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D2600-SN:1058

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.98	2.019	39.922

Hardware Setup

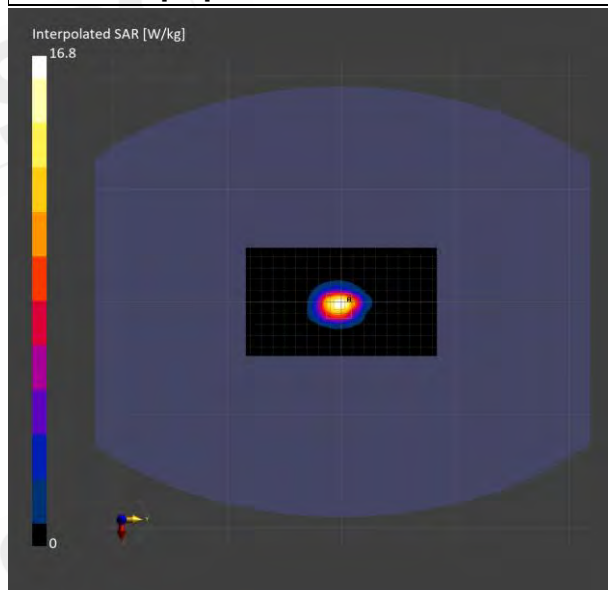
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-11	2023-02-11
psSAR1g [W/kg]	12.9	13.8
psSAR8g [W/kg]	6.59	7.26
psSAR10g [W/kg]	5.95	6.58
Power Drift [dB]	0.01	0.02
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		9.5



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D3500-SN:1009

Ambient temperature: 23.3°C; Liquid temperature: 22.8°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.4	2.974	38.842

Hardware Setup

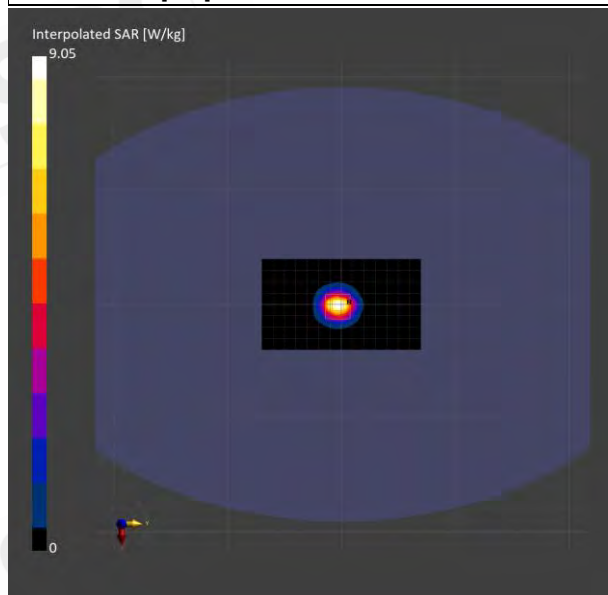
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	6.50	6.62
psSAR8g [W/kg]	2.86	2.93
psSAR10g [W/kg]	2.53	2.60
Power Drift [dB]	-0.16	0.00
M2/M1 [%]		68.0
Dist 3dB Peak [mm]		8.4



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Member of SGS Group

Report No. : TESA2212000671E5

Measurement Report

Dipole_D3700-SN:1057

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.3	3.182	38.613

Hardware Setup

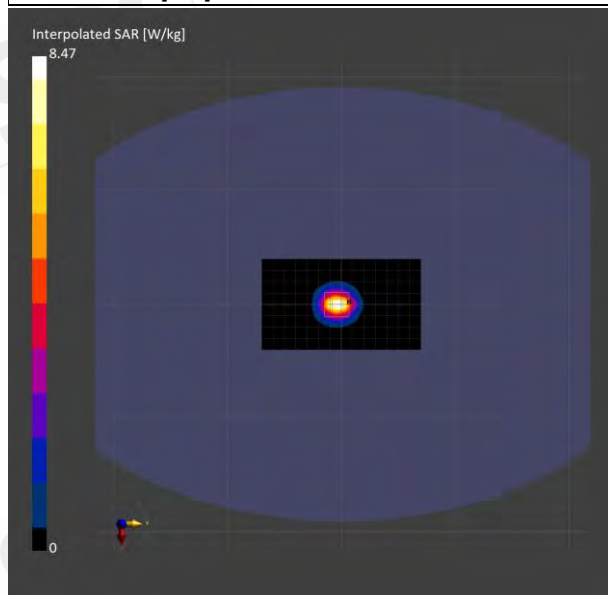
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	6.06	6.39
psSAR8g [W/kg]	2.60	2.81
psSAR10g [W/kg]	2.30	2.47
Power Drift [dB]	-0.01	-0.02
M2/M1 [%]		67.3
Dist 3dB Peak [mm]		8.4



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D3900-SN:1032

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

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	6.94	3.39	38.384

Hardware Setup

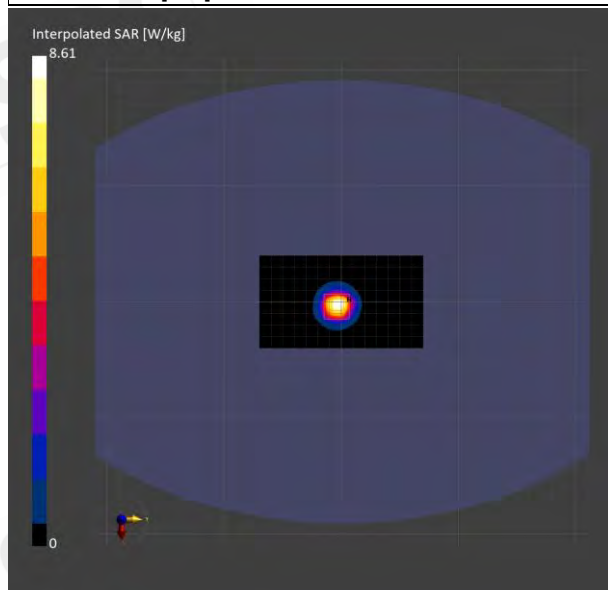
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-12	2023-02-12
psSAR1g [W/kg]	6.24	6.72
psSAR8g [W/kg]	2.68	2.82
psSAR10g [W/kg]	2.36	2.49
Power Drift [dB]	0.06	0.01
M2/M1 [%]		72.2
Dist 3dB Peak [mm]		8.7



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D750-SN:1015

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	10.65	0.892	41.865

Hardware Setup

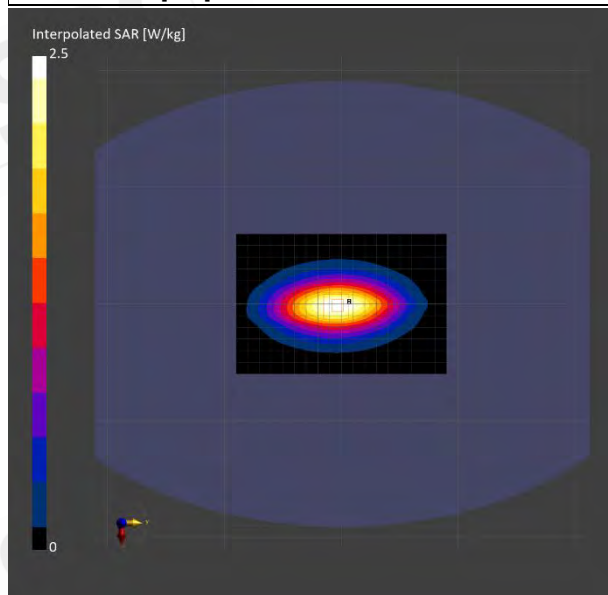
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	2.18	2.17
psSAR8g [W/kg]	1.53	1.53
psSAR10g [W/kg]	1.45	1.46
Power Drift [dB]	-0.05	-0.02
M2/M1 [%]		69.8
Dist 3dB Peak [mm]		19.5



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D835-SN:4d063

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 15.00	10.37	0.909	41.478

Hardware Setup

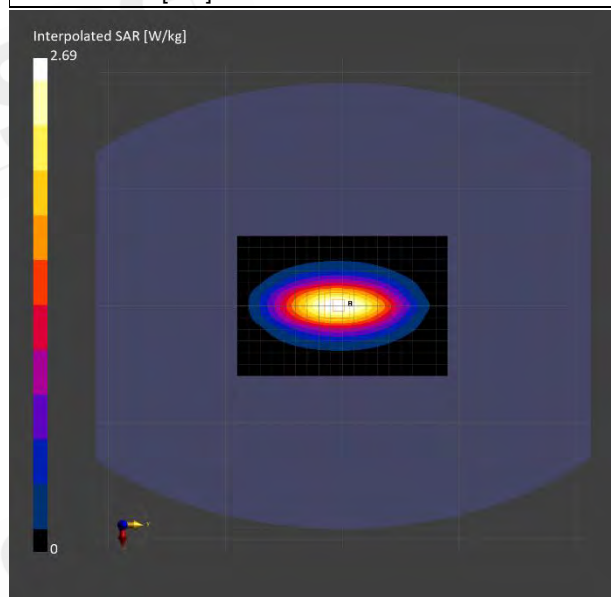
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	2.32	2.36
psSAR8g [W/kg]	1.62	1.66
psSAR10g [W/kg]	1.53	1.58
Power Drift [dB]	-0.02	-0.06
M2/M1 [%]		69.0
Dist 3dB Peak [mm]		18.9



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D1750-SN:1008

Ambient temperature: 23.1°C; Liquid temperature: 22.5°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	9.19	1.387	40.002

Hardware Setup

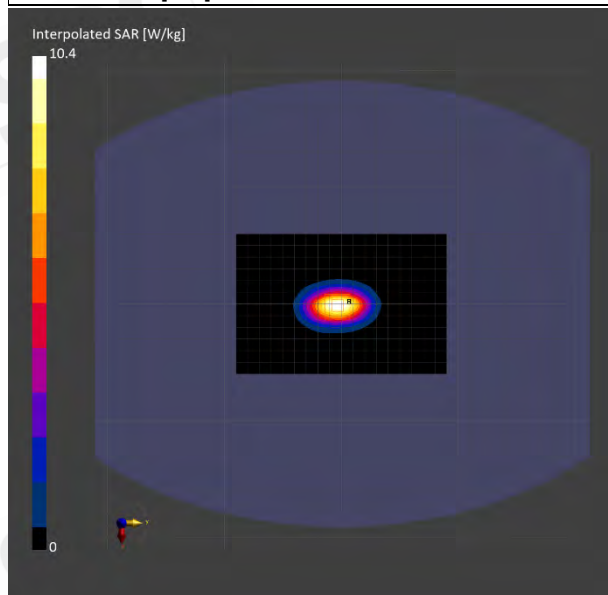
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 180.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	10.0 x 10.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-13	2023-02-13
psSAR1g [W/kg]	8.39	9.10
psSAR8g [W/kg]	4.92	5.39
psSAR10g [W/kg]	4.53	4.99
Power Drift [dB]	-0.01	-0.04
M2/M1 [%]		57.7
Dist 3dB Peak [mm]		10.1



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D1900-SN:5d173

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.8	1.42	39.923

Hardware Setup

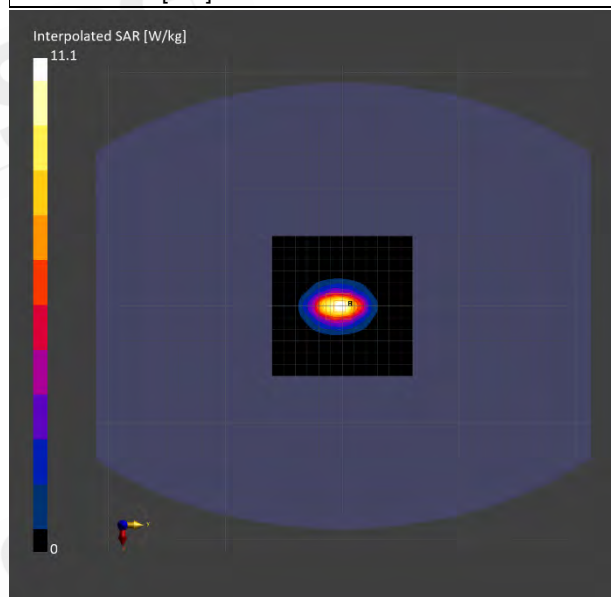
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 120.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	15.0 x 15.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	8.73	9.47
psSAR8g [W/kg]	4.91	5.47
psSAR10g [W/kg]	4.49	5.04
Power Drift [dB]	0.02	0.04
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		10.1



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D2300-SN:1023

Ambient temperature: 23.0°C; Liquid temperature: 22.4°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	8.54	1.705	39.39

Hardware Setup

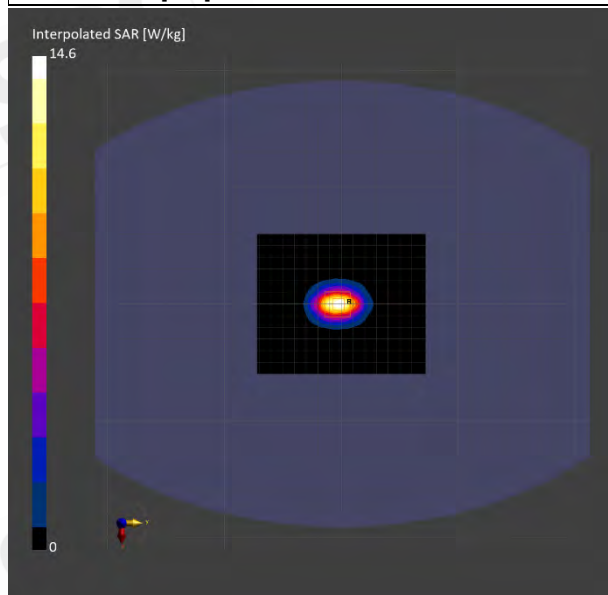
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	120.0 x 144.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-14	2023-02-14
psSAR1g [W/kg]	11.3	11.9
psSAR8g [W/kg]	5.92	6.49
psSAR10g [W/kg]	5.36	5.92
Power Drift [dB]	0.05	-0.02
M2/M1 [%]		53.9
Dist 3dB Peak [mm]		9.1



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D2600-SN:1058

Ambient temperature: 22.9°C; Liquid temperature: 22.3°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.98	1.97	38.932

Hardware Setup

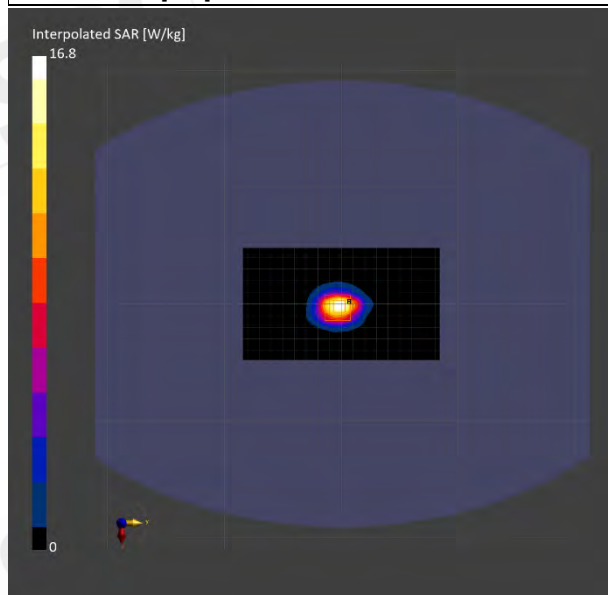
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	96.0 x 168.0	30.0 x 30.0 x 30.0
Grid Steps [mm]	12.0 x 12.0	5.0 x 5.0 x 5.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-15	2023-02-15
psSAR1g [W/kg]	12.9	13.7
psSAR8g [W/kg]	6.59	7.24
psSAR10g [W/kg]	5.95	6.57
Power Drift [dB]	-0.01	0.01
M2/M1 [%]		57.2
Dist 3dB Peak [mm]		9.5



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D3500-SN:1009

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.4	2.902	37.852

Hardware Setup

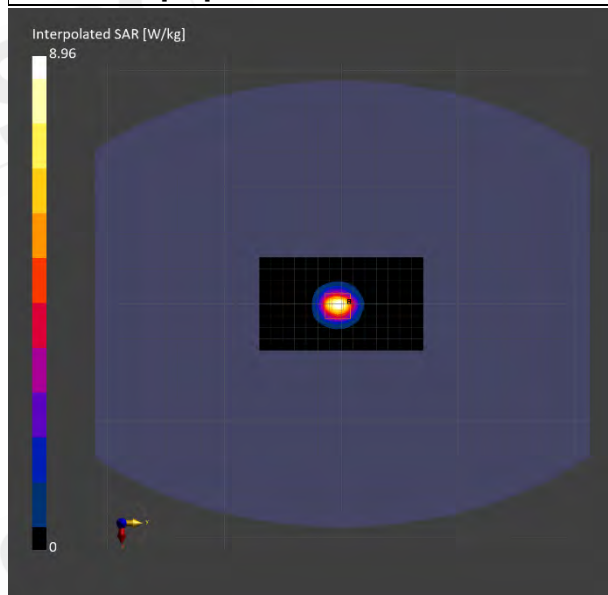
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	6.43	6.66
psSAR8g [W/kg]	2.83	2.95
psSAR10g [W/kg]	2.51	2.62
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		68.2
Dist 3dB Peak [mm]		8.2



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D3700-SN:1057

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	7.3	3.106	37.623

Hardware Setup

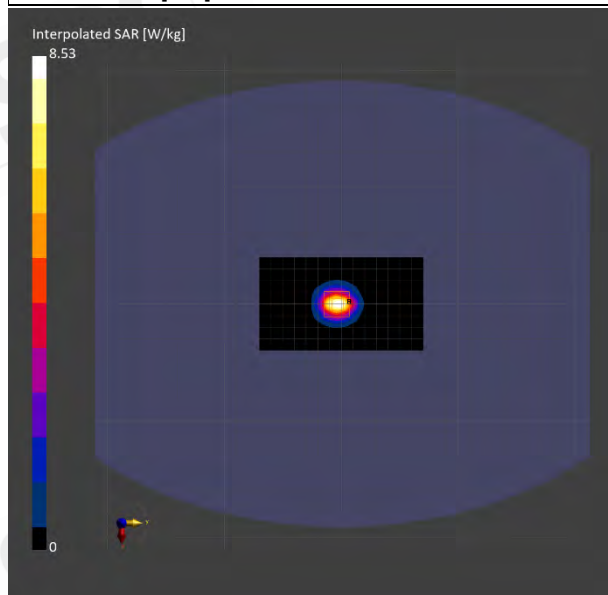
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	6.09	6.37
psSAR8g [W/kg]	2.62	2.80
psSAR10g [W/kg]	2.32	2.47
Power Drift [dB]	-0.03	-0.03
M2/M1 [%]		67.6
Dist 3dB Peak [mm]		8.7



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Report No. : TESA2212000671E5

Measurement Report

Dipole_D3900-SN:1032

Ambient temperature: 22.7°C; Liquid temperature: 22.1°C

Exposure Conditions

Phantom Section, TSL	Position, Test Distance [mm]	Conversion Factor	TSL Conductivity [S/m]	TSL Permittivity
Flat, HSL	FRONT, 10.00	6.94	3.309	37.394

Hardware Setup

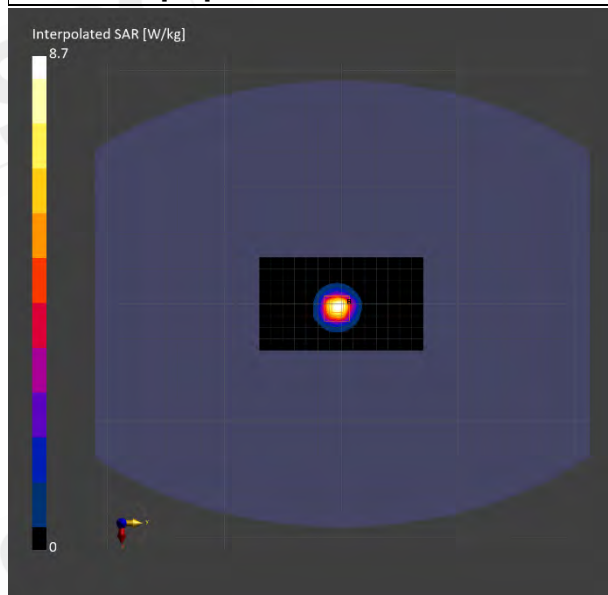
Phantom	Probe, Calibration Date	DAE, Calibration Date
ELI	EX3DV4 - SN7686, 2022-09-27	DAE4 Sn856, 2022-04-21

Scans Setup

	Area Scan	Zoom Scan
Grid Extents [mm]	80.0 x 140.0	24.0 x 24.0 x 22.0
Grid Steps [mm]	10.0 x 10.0	4.0 x 4.0 x 2.0
Sensor Surface [mm]	3.0	1.4

Measurement Results

	Area Scan	Zoom Scan
Date	2023-02-16	2023-02-16
psSAR1g [W/kg]	6.29	6.76
psSAR8g [W/kg]	2.70	2.84
psSAR10g [W/kg]	2.37	2.50
Power Drift [dB]	0.06	0.00
M2/M1 [%]		72.2
Dist 3dB Peak [mm]		8.7



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13 APPENDIXES

Refer to separated files for the following appendixes.

13.1 SAR_Appendix A Photographs

13.2 SAR_Appendix B DAE & Probe Cal. Certificate

13.3 SAR_Appendix C Phantom Description & Dipole Cal. Certificate

- End of report -

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