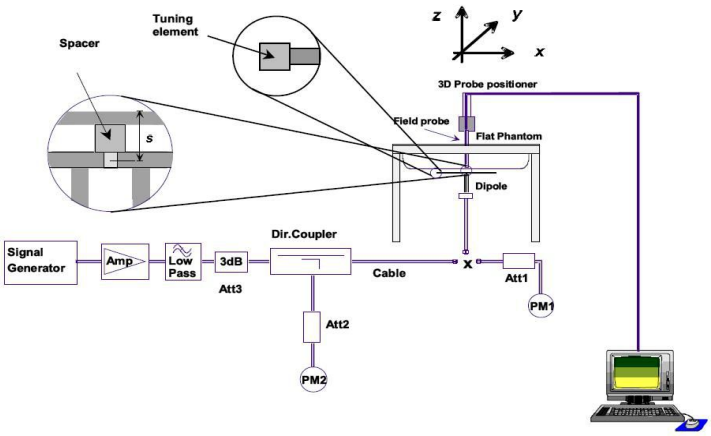
6.9. System Check

The SAR system must be validated against its performance specifications before it is deployed. When SAR probe and system component or software are changed, upgraded or recalibrated, these must be validated with the SAR system(s) that operates with such component. Reference dipoles are used with the required tissue-equivalent media for system validation. System check results have to be equal or near the values determined during dipole calibration with the relevant liquids and test system (±10 %).
System check is performed regularly on all frequency bands where tests are performed with the OPENSAR system.



System Check Set-up

Verification Results

Frequency (MHz)	Liquid Type	Measured Value in 100mW (W/kg)		Normalized to 1W (W/kg)		Target Value (W/kg)		Deviation (%)	
		1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average	1 g Average	10 g Average
750	Body	0.87	0.60	8.70	6.00	8.46	5.81	2.84	3.27
835	Body	0.95	0.63	9.50	6.30	9.62	6.44	-1.25	-2.17
1800	Body	3.78	2.05	37.79	20.46	37.69	20.57	0.27	-0.53
1900	Body	3.77	1.99	37.70	19.90	38.71	20.53	-2.61	-3.07
2450	Body	5.07	2.42	50.70	24.16	50.63	23.40	0.14	3.25
2600	Body	5.37	2.38	53.65	23.81	53.26	23.89	0.73	-0.33
5200	Body	15.90	5.69	159.00	56.90	158.49	55.40	0.32	2.71
5400	Body	16.64	5.84	166.40	58.43	167.20	57.39	-0.48	1.81
5600	Body	17.38	6.00	173.80	59.97	175.65	59.48	-1.05	0.82
5800	Body	18.12	6.15	181.20	61.50	183.06	61.62	-1.02	-0.19

Comparing to the original SAR value provided by MVG, the verification data should be within its specification of 10%. Below table shows the target SAR and measured SAR after normalized to 1W input power. The table as below indicates the system performance check can meet the variation criterion and the plots can be referred to Section 10 of this report.

7. Measurement Procedure

Conducted power measurement

For WWAN power measurement, use base station simulator to configure EUT WWAN transition in conducted connection with RF cable, at maximum power in each supported wireless interface and frequency band.
Read the WWAN RF power level from the base station simulator.
For WLAN/BT power measurement, use engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power in each supported wireless interface and frequency band.
Connect EUT RF port through RF cable to the power meter or spectrum analyser, and measure WLAN/BT output power.

Conducted power measurement

Use base station simulator to configure EUT WWAN transmission in radiated connection, and engineering software to configure EUT WLAN/BT continuously transmission, at maximum RF power, in the highest power channel.
Place the EUT in positions as Appendix B demonstrates.
Set scan area, grid size and other setting on the MVG software.
Measure SAR results for the highest power channel on each testing position.
Find out the largest SAR result on these testing positions of each band.
Measure SAR results for other channels in worst SAR testing position if the Reported SAR or highest power channel is larger than 0.8 W/kg.

According to the test standard, the recommended procedure for assessing the peak spatial-average SAR value consists of the following steps:

Power reference measurement
Area scan
Zoom scan
Power drift measurement

Spatial Peak SAR Evaluation

The procedure for spatial peak SAR evaluation has been implemented according to the test standard. It can be conducted for 1g and 10g, as well as for user-specific masses. The MVG software includes all numerical procedures necessary to evaluate the spatial peak SAR value.

The base for the evaluation is a “cube” measurement. The measured volume must include the 1g and 10 g cubes with the highest averaged SAR values. For that purpose, the center of the measured volume is aligned to the interpolated peak SAR value of a previously performed area scan.

The entire evaluation of the spatial peak values is performed within the post-processing engine (SEMCAD). The system always gives the maximum values for 1g and 10g cubes. The algorithm to find the cube with highest averaged SAR is divided into the following stages:
Extraction of the measured data (grid and values) from the Zoom Scan.

Calculation of the SAR value at every measurement point based on all stored data (A/D values and measurement parameters).

Generation of a high-resolution mesh within the measured volume.

Interpolation of all measured values form the measurement grid to the high-resolution grid

Extrapolation of the entire 3-D field distribution to the phantom surface over the distance from sensor to surface

Calculation of the averaged SAR within masses of 1g and 10g.

Power Reference Measurement

The Power Reference Measurement and Power Drift Measurement are for monitoring the power drift of the device under test in the batch process. The minimum distance of probe sensors to surface determines the closest measurement point to phantom surface. This distance cannot be smaller than the distance of sensor calibration points to probe tip as defined in the probe properties

Area & Zoom Scan Procedures

First Area Scan is used to locate the approximate location(s) of the local peak SAR value(s). The measurement grid within an Area Scan is defined by the grid extent, grid step size and grid offset. Next, in order to determine the EM field distribution in a three-dimensional spatial extension, Zoom Scan is required. The Zoom Scan is performed around the highest E-field value to determine the averaged SAR-distribution over 10g. Area scan and zoom scan resolution setting follows KDB 865664 D01v01r03 quoted below.

			≤ 3 GHz	> 3 GHz
Maximum distance from closest measurement point (geometric center of probe sensors) to phantom surface			5 mm ± 1 mm	½·δ·ln(2) mm ± 0.5 mm
Maximum probe angle from probe axis to phantom surface normal at the measurement location			30° ± 1°	20° ± 1°
Maximum area scan spatial resolution: Δx_{Area}, Δy_{Area}			≤ 2 GHz: ≤ 15 mm 2 – 3 GHz: ≤ 12 mm	3 – 4 GHz: ≤ 12 mm 4 – 6 GHz: ≤ 10 mm
			When the x or y dimension of the test device, in the measurement plane orientation, is smaller than the above, the measurement resolution must be ≤ the corresponding x or y dimension of the test device with at least one measurement point on the test device.	
Maximum zoom scan spatial resolution: Δx_{Zoom}, Δy_{Zoom}			≤ 2 GHz: ≤ 8 mm 2 – 3 GHz: ≤ 5 mm*	3 – 4 GHz: ≤ 5 mm* 4 – 6 GHz: ≤ 4 mm*
Maximum zoom scan spatial resolution, normal to phantom surface	uniform grid: $\Delta z_{Zoom}(n)$		≤ 5 mm	3 – 4 GHz: ≤ 4 mm 4 – 5 GHz: ≤ 3 mm 5 – 6 GHz: ≤ 2 mm
	graded grid	$\Delta z_{Zoom}(1)$: between 1st two points closest to phantom surface	≤ 4 mm	3 – 4 GHz: ≤ 3 mm 4 – 5 GHz: ≤ 2.5 mm 5 – 6 GHz: ≤ 2 mm
		$\Delta z_{Zoom}(n>1)$: between subsequent points	≤ 1.5·$\Delta z_{Zoom}(n-1)$ mm	
Minimum zoom scan volume	x, y, z		≥ 30 mm	3 – 4 GHz: ≥ 28 mm 4 – 5 GHz: ≥ 25 mm 5 – 6 GHz: ≥ 22 mm

Note: δ is the penetration depth of a plane-wave at normal incidence to the tissue medium; see IEEE Std 1528-2013 for details.

* When zoom scan is required and the *reported* SAR from the *area scan based 1-g SAR estimation* procedures of KDB Publication 447498 is ≤ 1.4 W/kg, ≤ 8 mm, ≤ 7 mm and ≤ 5 mm zoom scan resolution may be applied, respectively, for 2 GHz to 3 GHz, 3 GHz to 4 GHz and 4 GHz to 6 GHz.

Volume Scan Procedures

The volume scan is used for assess overlapping SAR distributions for antennas transmitting in different frequency bands. It is equivalent to an oversized zoom scan used in standalone measurements. The measurement volume will be used to enclose all the simultaneous transmitting antennas. For antennas transmitting simultaneously in different frequency bands, the volume scan is measured separately in each frequency band. In order to sum correctly to compute the 1g aggregate SAR, the EUT remain in the same test position for all measurements and all volume scan use the same spatial resolution and grid spacing. When all volume scan were completed, the software, SEMCAD post-processor scan combine and subsequently superpose these measurement data to calculating the multiband SAR.

SAR Averaged Methods

In MVG, the interpolation and extrapolation are both based on the modified Quadratic Shepard's method. The

interpolation scheme combines a least-square fitted function method and a weighted average method which are the two basic types of computational interpolation and approximation.

Extrapolation routines are used to obtain SAR values between the lowest measurement points and the inner phantom surface. The extrapolation distance is determined by the surface detection distance and the probe sensor offset. The uncertainty increases with the extrapolation distance. To keep the uncertainty within 1% for the 1g and 10g cubes, the extrapolation distance should not be larger than 5 mm.

Power Drift Monitoring

All SAR testing is under the EUT install full charged battery and transmit maximum output power. In MVG measurement software, the power reference measurement and power drift measurement procedures are used for monitoring the power drift of EUT during SAR test. Both these procedures measure the field at a specified reference position before and after the SAR testing. The software will calculate the field difference in dB. If the power drifts more than 5%, the SAR will be retested.

Power Drift measurement

The drift job measures the field at the same location as the most recent reference job within the same procedure, and with the same settings. The drift measurement gives the field difference in dB from the reading conducted within the last reference measurement. Several drift measurements are possible for

Measurement Uncertainty

Per KDB 865664 D01 SAR Measurement 100KHz to 6GHz ,when the highest measurement 1-g SAR within a frequency band is <1.5W/kg, the extensive SAR measurement uncertainty analysis described IEEE Std 1528-2013 is not required in SAR report submitted for equipment approval.

8. Conducted Output Power

Band	WCDMA Band II			WCDMA Band IV			WCDMA Band V		
Channel	9262	9400	9538	1312	1413	1513	4132	4183	4233
Frequency	1852.40	1880.00	1907.60	1712.40	1732.60	1752.60	826.40	836.60	846.60
RMC 12.2Kbps	20.50	20.84	**21.08**	22.16	21.80	**21.81**	22.80	**22.85**	22.69
HSDPA Subtest-1	20.25	20.56	20.85	21.84	21.48	21.52	22.52	22.53	22.44
HSDPA Subtest-2	19.81	20.13	20.38	21.36	21.01	21.00	22.06	22.07	21.97
HSDPA Subtest-3	19.79	20.10	20.36	21.36	21.00	21.01	22.05	22.08	21.98
HSDPA Subtest-4	19.79	20.09	20.37	21.32	20.99	20.98	22.08	22.06	21.94
HSUPA Subtest-1	19.69	20.35	20.60	21.05	21.26	21.26	22.46	22.35	22.19
HSUPA Subtest-2	18.74	19.13	19.45	20.29	19.96	20.00	21.06	20.99	20.96
HSUPA Subtest-3	19.28	19.57	19.89	20.81	20.46	20.52	21.53	21.62	21.47
HSUPA Subtest-4	18.20	18.48	18.81	19.76	19.39	19.45	20.55	20.45	20.46
HSUPA Subtest-5	20.25	20.56	20.86	21.86	21.51	21.51	22.62	22.47	22.44

Note:

1. According to the power listed above, the HSDPA and HSUPA were not determined for SAR testing.
2. The default test configuration is to measure SAR with an established radio link between the EUT and a communication test set using a 12.2kbps RMC(reference measurement channel) configuration in test loop mode
3. The device do not support power reduction, so power of hotspot activated as the same as hotspot disabled

WLAN 2.4G						
Mode	802.11b			802.11g		
Channel	1	6	11	1	6	11
Frequency	2412	2437	2462	2412	2437	2462
Average Power (dBm)	18.24	17.00	**18.96**	17.99	18.80	18.88
Mode	802.11n(HT20)			802.11n(HT40)		
Channel	1	6	11	3	6	9
Frequency	2412	2437	2462	2422	2437	2452
Average Power (dBm)	17.90	18.63	18.88	17.29	17.68	17.87

Note

1. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.
2. The output power of all data rate were pre-scan, just the worst case (the lowest data rate) of all mode were shown in report

WLAN 5G U-NII-1 (5.150~5.250)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	36	44	48	36	44	48
Frequency	5180	5220	5240	5180	5220	5240
Average Power (dBm)	16.17	16.63	16.57	15.98	16.54	16.40
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	38	46		36	44	48
Frequency	5190	5230		5180	5220	5240
Average Power (dBm)	14.04	14.97		16.17	**16.67**	16.58
Mode	EEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	38	46		42		
Frequency	5190	5230		5210		
Average Power (dBm)	14.03	15.81		15.68		
WLAN 5G U-NII-2a (5.250~5.350)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	52	60	64	52	60	64
Frequency	5260	5300	5320	5260	5300	5320
Average Power (dBm)	16.22	15.34	13.15	16.16	15.33	13.98
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	54	62		52	60	64
Frequency	5270	5310		5260	5300	5320
Average Power (dBm)	14.81	14.21		**16.32**	15.39	14.93
Mode	EEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	54	62		58		
Frequency	5270	5310		5290		
Average Power (dBm)	15.42	14.22		14.69		
WLAN 5G U-NII-2c (5.470~5.725)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	100	116	140	100	116	140
Frequency	5500	5580	5700	5500	5580	5700
Average Power (dBm)	14.44	15.64	13.60	14.33	15.76	13.37
Mode	IEEE 802.11n HT40			IEEE 802.11ac VHT20		
Channel	102	110	134	100	116	140
Frequency	5510	5550	5670	5500	5580	5700
Average Power (dBm)	15.35	**16.20**	14.35	14.88	15.85	15.00
Mode	IEEE 802.11ac VHT40			IEEE 802.11ac VHT80		
Channel	102	110	134	106	122	
Frequency	5510	5550	5670	5530	5610	
Average Power (dBm)	15.51	16.17	14.31	14.34	13.49	
WLAN 5G U-NII-3 (5.725~5.850)						
Mode	IEEE 802.11a			IEEE 802.11n HT20		
Channel	149	157	165	149	157	165
Frequency	5745	5785	5825	5745	5785	5825
Average Power (dBm)	15.29	15.47	16.13	15.23	15.54	16.11

Mode	IEEE 802.11n HT40		IEEE 802.11ac VHT20		
Channel	151	159	149	157	165
Frequency	5755	5795	5745	5785	5825
Average Power (dBm)	16.21	**16.43**	15.26	15.44	16.04
Mode	IEEE 802.11ac VHT40		IEEE 802.11ac VHT80		
Channel	151	159	155		
Frequency	5755	5795	5775		
Average Power (dBm)	14.69	15.05	13.24		

Bluetooth						
Mode	GFSK			Pi/4DQPSK		
Channel	1	40	79	1	40	79
Frequency	2402	2441	2480	2402	2441	2480
Average Power (dBm)	6.91	6.89	8.49	7.01	6.87	8.46
Mode	8DPSK			BLE(Up: 1Mbps, Down: Up: 2Mbps)		
Channel	1	40	79	0	20	39
Frequency	2402	2441	2480	2402	2440	2480
Average Power (dBm)	6.82	6.94	**8.69**	-0.01	-10.09	-8.58
				-7.40	-7.35	-5.79

BT

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
79	2480	9.00	7.94	1.0	10.17	No
79	2480	9.00	7.94	2.5	58.28	No

2.4G

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
11	2462	19.00	79.43	1.0	10.22	Yes
11	2462	19.00	79.43	2.5	58.47	Yes

5G
U-NII-1

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
44	5220	17.00	50.12	1.0	6.27	Yes
44	5220	17.00	50.12	2.5	41.65	Yes

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U-NII-2a

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
52	5260	16.50	44.67	1.0	6.24	Yes
52	5260	16.50	44.67	2.5	41.50	Yes

U-NII-2c

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
110	5550	16.50	44.67	1.0	6.02	Yes
110	5550	16.50	44.67	2.5	40.51	Yes

U-NII-3

Channel	Frequency (GHz)	Max. Tune-up Power (dBm)	Max. Power (mW)	Test distance (cm)	Exclusion thresholds for 1-g SAR	RF Exposure Evaluation Required
159	5795	16.50	44.67	1.0	5.86	Yes
159	5795	16.50	44.67	2.5	39.73	Yes

Note

1. Per KDB 447498 D04 Interim General RF Exposure Guidance v01, the 1-g SAR test exclusion thresholds for 300 MHz to 6 GHz at *test separation distances* ≤ 40 cm are determined by:

$$P_{\text{th}}\,(\text{mW}) = ERP_{20\,\text{cm}}\,(\text{mW}) = \begin{cases} 2040f & 0.3\ \text{GHz} \le f < 1.5\ \text{GHz} \\ 3060 & 1.5\ \text{GHz} \le f \le 6\ \text{GHz} \end{cases} \qquad \text{(B. 1)}$$

$$P_{\text{th}}\,(\text{mW}) = \begin{cases} ERP_{20\,\text{cm}}(d/20\ \text{cm})^x & d \le 20\ \text{cm} \\ ERP_{20\,\text{cm}} & 20\ \text{cm} < d \le 40\ \text{cm} \end{cases} \qquad \text{(B. 2)}$$

where

$$x = -\log_{10}\left(\frac{60}{ERP_{20\,\text{cm}}\sqrt{f}}\right)$$

and f is in GHz, d is the separation distance (cm), and $ERP_{20\text{cm}}$ is per Formula (B.1).

2. Base on the result of note1, RF exposure evaluation of BT is not required.
3. Per KDB 248227 D01 v02r02, choose the highest output power channel to test SAR and determine further SAR exclusion.

The output power of all data rate were prescan, just the worst case (the lowest data rate) of all mode were shown in report.

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LTE Band 2

Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel 18607	Channel 18900	Channel 19193
1.4MHz	QPSK	1	0	20.85	21.16	21.50
			2	20.92	21.21	21.43
			5	20.83	21.17	21.39
		3	0	20.86	21.20	21.34
			1	20.89	21.19	21.33
			3	20.83	21.14	21.33
		6	0	19.75	20.24	20.41
	16QAM	1	0	20.11	20.43	20.36
			2	20.20	20.53	20.40
			5	20.11	20.36	20.32
		3	0	19.87	20.21	20.29
			1	19.87	20.19	20.23
			3	19.75	20.17	20.26
		6	0	19.02	19.33	19.41
Bandwidth	Modulation	RB size	RB offset	Channel 18615	Channel 18900	Channel 19185
3MHz	QPSK	1	0	20.72	21.27	21.38
			8	20.77	21.28	21.39
			14	20.72	21.22	21.46
		8	0	19.83	20.26	20.42
			4	19.83	20.29	20.43
			7	19.82	20.24	20.46
		15	0	19.80	20.28	20.40
	16QAM	1	0	20.04	20.50	20.35
			8	20.10	20.50	20.44
			14	20.05	20.42	20.40
		8	0	18.93	19.36	19.50
			4	18.95	19.36	19.50
			7	18.95	19.31	19.49
		15	0	18.91	19.25	19.39

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Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel 18625	Channel 18900	Channel 19175
5MHz	QPSK	1	0	20.84	21.33	21.39
			12	20.94	21.36	21.53
			24	20.89	21.23	21.45
		12	0	19.85	20.27	20.39
			6	19.84	20.29	20.39
			13	19.79	20.24	20.39
		25	0	19.82	20.27	20.38
	16QAM	1	0	19.95	20.60	20.48
			12	20.08	20.68	20.61
			24	19.95	20.52	20.54
		12	0	18.88	19.38	19.45
			6	18.89	19.41	19.45
			13	18.92	19.38	19.46
		25	0	18.91	19.29	19.48
Bandwidth	Modulation	RB size	RB offset	Channel 18650	Channel 18900	Channel 19150
10MHz	QPSK	1	0	20.81	21.44	21.22
			24	20.84	21.24	21.37
			49	20.99	21.23	21.40
		25	0	19.81	20.31	20.36
			12	19.81	20.31	20.36
			25	19.94	20.23	20.40
		50	0	19.87	20.25	20.35
	16QAM	1	0	20.15	20.65	20.24
			24	20.16	20.54	20.34
			49	20.22	20.47	20.37
		25	0	18.89	19.38	19.40
			12	18.93	19.40	19.41
			25	18.95	19.30	19.47
		50	0	18.97	19.34	19.39

Conducted Power of LTE Band 2						
Bandwidth	Modulation	RB size	RB offset	Channel 18675	Channel 18900	Channel 19125
15MHz	QPSK	1	0	20.65	21.29	21.14
			38	20.93	21.23	21.31
			74	21.09	21.16	21.41
		38	0	19.91	20.27	20.31
			18	20.03	20.26	20.33
			37	19.99	20.26	20.33
		75	0	19.99	20.26	20.32
	16QAM	1	0	20.06	20.68	20.07
			38	20.21	20.66	20.32
			74	20.28	20.49	20.42
		38	0	19.90	20.27	20.33
			18	19.99	20.26	20.33
			37	20.03	20.26	20.34
		75	0	19.05	19.33	19.40
Bandwidth	Modulation	RB size	RB offset	Channel 18700	Channel 18900	Channel 19100
20MHz	QPSK	1	0	20.85	21.44	20.88
			49	21.17	21.29	21.16
			99	**21.47**	21.25	21.27
		50	0	19.97	20.33	20.09
			25	19.98	20.34	20.12
			50	**20.29**	20.19	20.37
		100	0	20.25	20.28	20.20
	16QAM	1	0	20.09	20.60	20.09
			49	20.23	20.58	20.31
			99	20.47	20.44	20.52
		50	0	19.05	19.37	19.16
			25	19.05	19.38	19.17
			50	19.34	19.31	19.44
		100	0	19.30	19.32	19.24

LTE Band 4

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel 19957	Channel 20175	Channel 20393
1.4MHz	QPSK	1	0	21.84	21.74	21.72
			2	21.85	21.73	21.77
			5	21.82	21.70	21.72
		3	0	21.81	21.71	21.73
			1	21.80	21.71	21.71
			3	21.79	21.70	21.71
		6	0	20.84	20.71	20.72
	16QAM	1	0	21.00	20.91	20.74
			2	21.16	21.03	20.76
			5	21.04	20.95	20.71
		3	0	20.83	20.75	20.67
			1	20.82	20.75	20.67
			3	20.82	20.73	20.64
		6	0	19.95	19.71	19.84
Bandwidth	Modulation	RB size	RB offset	Channel 19965	Channel 20175	Channel 20385
3MHz	QPSK	1	0	21.76	21.78	21.78
			8	21.87	21.78	21.76
			14	21.81	21.77	21.70
		8	0	20.91	20.75	20.83
			4	20.87	20.75	20.83
			7	20.88	20.72	20.79
		15	0	20.87	20.75	20.81
	16QAM	1	0	21.08	21.00	20.74
			8	21.11	20.96	20.76
			14	21.08	20.89	20.72
		8	0	20.01	19.87	19.86
			4	19.99	19.88	19.84
			7	20.03	19.85	19.88
		15	0	20.02	19.78	19.76

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Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel 19975	Channel 20175	Channel 20375
5MHz	QPSK	1	0	21.94	21.81	21.85
			12	22.00	21.88	21.92
			24	21.91	21.77	21.81
		12	0	20.87	20.77	20.81
			6	20.87	20.78	20.78
			13	20.89	20.72	20.78
		25	0	20.91	20.75	20.78
	16QAM	1	0	21.01	21.10	20.88
			12	21.13	21.15	21.02
			24	20.98	21.07	20.86
		12	0	19.99	19.92	19.88
			6	19.97	19.91	19.88
			13	19.96	19.87	19.86
		25	0	20.01	19.83	19.93
Bandwidth	Modulation	RB size	RB offset	Channel 20000	Channel 20175	Channel 20350
10MHz	QPSK	1	0	21.84	21.83	21.71
			25	21.84	21.78	21.76
			49	21.79	21.70	21.70
		25	0	20.95	20.82	20.78
			12	20.95	20.83	20.78
			25	20.85	20.76	20.80
		50	0	20.91	20.78	20.76
	16QAM	1	0	21.15	21.09	20.72
			25	21.17	21.02	20.74
			49	21.08	20.97	20.72
		25	0	20.02	19.94	19.91
			12	20.02	19.94	19.89
			25	19.94	19.84	19.84
		50	0	19.98	19.90	19.84

Conducted Power of LTE Band 4						
Bandwidth	Modulation	RB size	RB offset	Channel 20025	Channel 20175	Channel 20325
15MHz	QPSK	1	0	21.89	21.84	21.78
			38	21.93	21.77	21.77
			74	21.76	21.70	21.74
		38	0	20.98	20.78	20.87
			18	20.98	20.78	20.86
			37	20.97	20.78	20.86
		75	0	20.97	20.78	20.86
	16QAM	1	0	21.26	21.22	20.79
			38	21.26	21.12	20.79
			74	21.09	21.09	20.72
		38	0	20.98	20.78	20.87
			18	20.98	20.78	20.86
			37	20.97	20.78	20.86
		75	0	20.05	19.91	19.99
Bandwidth	Modulation	RB size	RB offset	Channel 20050	Channel 20175	Channel 20300
20MHz	QPSK	1	0	**22.02**	21.98	21.61
			50	22.00	21.84	21.59
			99	21.84	21.78	21.66
		50	0	**21.02**	20.87	20.77
			25	21.01	20.88	20.78
			50	20.90	20.80	20.81
		100	0	20.93	20.85	20.86
	16QAM	1	0	21.14	21.22	20.82
			50	21.14	21.07	20.79
			99	20.90	21.01	20.81
		50	0	20.10	20.01	19.92
			25	20.09	19.99	19.92
			50	19.98	19.88	19.93
		100	0	20.02	19.92	19.95

LTE Band 5

Conducted Power of LTE Band 5						
Bandwidth	Modulation	RB size	RB offset	Channel 20407	Channel 20252	Channel 20643
1.4MHz	QPSK	1	0	22.43	22.46	22.12
			2	22.43	22.47	22.20
			5	22.42	22.50	22.10
		3	0	22.45	22.51	22.16
			1	22.51	22.52	22.15
			3	22.44	22.46	22.15
		6	0	21.45	21.53	21.15
	16QAM	1	0	21.74	21.69	21.12
			2	21.84	21.79	21.17
			5	21.74	21.77	21.09
		3	0	21.49	21.54	21.09
			1	21.51	21.52	21.07
			3	21.49	21.50	21.04
		6	0	20.58	20.47	20.24
Bandwidth	Modulation	RB size	RB offset	Channel 20415	Channel 20252	Channel 20635
3MHz	QPSK	1	0	22.43	22.52	22.27
			8	22.41	22.51	22.18
			14	22.46	22.53	22.15
		8	0	21.53	21.56	21.27
			4	21.52	21.57	21.31
			7	21.47	21.56	21.22
		15	0	21.59	21.57	21.24
	16QAM	1	0	21.85	21.77	21.21
			8	21.83	21.81	21.20
			14	21.77	21.75	21.16
		8	0	20.70	20.61	20.34
			4	20.71	20.61	20.36
			7	20.65	20.64	20.33
		15	0	20.66	20.58	20.30

Conducted Power of LTE Band 5						
Bandwidth	Modulation	RB size	RB offset	Channel 20425	Channel 20525	Channel 20625
5MHz	QPSK	1	0	22.61	22.64	22.38
			12	22.62	22.69	22.39
			24	22.53	22.56	22.21
		12	0	21.62	21.62	21.37
			6	21.63	21.57	21.33
			13	21.51	21.54	21.22
		25	0	21.59	21.63	21.28
	16QAM	1	0	21.70	21.95	21.47
			12	21.79	22.02	21.44
			24	21.70	21.87	21.32
		12	0	20.68	20.72	20.44
			6	20.68	20.71	20.43
			13	20.62	20.70	20.39
		25	0	20.68	20.64	20.38
Bandwidth	Modulation	RB size	RB offset	Channel 20450	Channel 20525	Channel 20600
10MHz	QPSK	1	0	22.49	**22.53**	22.40
			24	22.43	22.51	22.35
			49	22.40	22.46	22.15
		25	0	21.58	21.62	21.43
			12	21.55	**21.63**	21.44
			25	21.58	21.52	21.34
		50	0	21.57	21.59	21.39
	16QAM	1	0	21.81	21.86	21.43
			24	21.81	21.83	21.30
			49	21.73	21.76	21.19
		25	0	20.66	20.67	20.50
			12	20.66	20.69	20.51
			25	20.61	20.66	20.41
		50	0	20.64	20.66	20.41

LTE Band 7

Conducted Power of LTE Band 7						
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20775	21100	21425
5MHz	QPSK	1	0	21.14	21.24	21.05
			12	21.28	21.33	21.18
			24	21.23	21.31	21.14
		12	0	20.11	20.18	20.01
			6	20.12	20.20	20.02
			13	20.18	20.24	20.03
		25	0	20.12	20.16	19.96
	16QAM	1	0	20.38	20.14	20.23
			12	20.51	20.29	20.31
			24	20.50	20.22	20.27
		12	0	19.15	19.17	19.02
			6	19.13	19.14	19.03
			13	19.18	19.19	19.05
		25	0	19.13	19.14	18.93
Bandwidth	Modulation	RB size	RB offset	Channel	Channel	Channel
				20800	21100	21400
10MHz	QPSK	1	0	21.09	21.23	21.05
			24	21.13	21.27	20.99
			49	21.22	21.18	21.09
		25	0	20.16	20.22	20.06
			12	20.20	20.21	20.08
			25	20.23	20.25	20.06
		50	0	20.18	20.17	20.05
	16QAM	1	0	20.32	20.27	19.98
			24	20.40	20.28	19.97
			49	20.52	20.31	20.02
		25	0	19.15	19.19	19.06
			12	19.16	19.20	19.05
			25	19.24	19.27	19.06
		50	0	19.21	19.22	19.08

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Conducted Power of LTE Band 7						
Bandwidth	Modulation	RB size	RB offset	Channel 20825	Channel 21100	Channel 21375
15MHz	QPSK	1	0	21.10	21.24	21.05
			38	21.15	21.30	21.10
			74	21.27	21.26	21.13
		38	0	20.26	20.30	20.06
			18	20.23	20.27	20.06
			37	20.19	20.26	20.04
		75	0	20.26	20.27	20.04
	16QAM	1	0	20.30	20.43	20.03
			38	20.45	20.44	20.03
			74	20.58	20.53	20.03
		38	0	20.26	20.27	20.05
			18	20.27	20.28	20.04
			37	20.26	20.29	20.04
		75	0	19.25	19.33	19.12
Bandwidth	Modulation	RB size	RB offset	Channel 20850	Channel 21100	Channel 21350
20MHz	QPSK	1	0	21.20	21.24	20.97
			49	21.25	**21.31**	20.93
			99	21.25	21.18	20.99
		50	0	20.22	20.17	20.18
			25	20.24	20.18	20.16
			50	20.22	**20.29**	20.11
		100	0	20.17	20.27	20.15
	16QAM	1	0	20.24	20.35	20.20
			49	20.40	20.38	20.10
			99	20.32	20.37	20.08
		25	0	19.20	19.17	19.27
			25	19.20	19.18	19.29
			50	19.20	19.31	19.14
		50	0	19.19	19.24	19.20

LTE Band 12

Conducted Power of LTE Band 12						
Bandwidth	Modulation	RB size	RB offset	Channel 23017	Channel 23095	Channel 23173
1.4MHz	QPSK	1	0	22.66	22.77	22.61
			2	22.66	22.79	22.68
			5	22.61	22.76	22.67
		3	0	22.74	22.66	22.68
			1	22.74	22.72	22.71
			3	22.75	22.74	22.71
		6	0	21.64	21.82	21.69
	16QAM	1	0	21.90	21.85	21.60
			2	22.02	21.92	21.65
			5	21.94	21.84	21.59
		3	0	21.76	21.71	21.66
			1	21.79	21.71	21.65
			3	21.69	21.61	21.59
		6	0	20.80	20.72	20.71
Bandwidth	Modulation	RB size	RB offset	Channel 23025	Channel 23095	Channel 23165
3MHz	QPSK	1	0	22.69	22.84	22.67
			8	22.63	22.81	22.65
			14	22.70	22.82	22.69
		8	0	21.72	21.84	21.78
			4	21.72	21.85	21.76
			7	21.83	21.84	21.74
		15	0	21.85	21.82	21.78
	16QAM	1	0	21.98	21.91	21.70
			8	21.99	21.94	21.66
			14	22.07	21.89	21.66
		8	0	20.88	20.85	20.85
			4	20.88	20.85	20.86
			7	21.00	20.87	20.83
		15	0	20.95	20.79	20.80

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Conducted Power of LTE Band 12						
Bandwidth	Modulation	RB size	RB offset	Channel 23035	Channel 23095	Channel 23155
5MHz	QPSK	1	0	22.78	22.75	22.71
			12	22.92	22.97	22.86
			24	22.77	22.85	22.74
		12	0	21.88	21.85	21.72
			6	21.89	21.84	21.64
			13	21.84	21.77	21.75
		25	0	21.86	21.79	21.64
	16QAM	1	0	21.90	22.02	21.80
			12	22.04	22.08	21.99
			24	21.92	21.98	21.77
		12	0	20.97	20.91	20.86
			6	20.97	20.91	20.78
			13	20.91	20.88	20.86
		25	0	20.95	20.81	20.77
Bandwidth	Modulation	RB size	RB offset	Channel 23060	Channel 23095	Channel 23130
10MHz	QPSK	1	0	22.70	22.72	22.82
			24	22.69	**22.85**	22.68
			49	22.74	22.70	22.75
		25	0	21.89	21.85	21.83
			12	21.89	**21.86**	21.86
			25	21.88	21.75	21.80
		50	0	21.91	21.86	21.83
	16QAM	1	0	22.00	22.07	21.79
			24	21.99	21.92	21.71
			49	21.91	21.96	21.79
		25	0	20.94	20.93	20.87
			12	20.94	20.93	20.88
			25	20.87	20.87	20.90
		50	0	20.99	20.89	20.84

LTE Band 13

Conducted Power of LTE Band 13						
Bandwidth	Modulation	RB size	RB offset	Channel 23205	Channel 23230	Channel 23255
5MHz	QPSK	1	0	22.92	23.04	22.87
			12	23.08	23.02	22.99
			24	22.94	22.96	22.97
		12	0	21.89	21.96	21.85
			6	21.88	21.97	21.81
			13	21.90	21.91	21.88
		25	0	21.95	21.96	21.83
	16QAM	1	0	21.95	22.03	22.14
			12	22.13	22.15	22.25
			24	22.10	22.01	22.10
		12	0	20.90	21.06	20.98
			6	20.91	21.04	21.00
			13	21.00	21.03	20.95
		25	0	20.97	21.04	20.88
Bandwidth	Modulation	RB size	RB offset	Channel 23230		
10MHz	QPSK	1	0	22.79		
			24	22.83		
			49	**22.98**		
		25	0	**21.96**		
			12	21.93		
			25	21.90		
		50	0	21.92		
	16QAM	1	0	22.07		
			24	22.22		
			49	22.11		
		25	0	21.03		
			12	21.01		
			25	20.98		
		50	0	21.03		

LTE Band 17

Conducted Power of LTE Band 17						
Bandwidth	Modulation	RB size	RB offset	Channel 23755	Channel 23790	Channel 23825
5MHz	QPSK	1	0	22.74	22.90	22.79
			12	22.91	22.94	22.81
			24	22.87	22.85	22.70
		12	0	21.86	21.94	21.72
			6	21.87	21.91	21.74
			13	21.91	21.85	21.66
		25	0	21.92	21.86	21.75
	16QAM	1	0	21.80	22.09	21.85
			12	21.93	22.18	21.92
			24	21.93	22.13	21.83
		12	0	20.86	20.91	20.86
			6	20.86	20.92	20.86
			13	20.85	20.93	20.79
		25	0	20.92	20.86	20.84
Bandwidth	Modulation	RB size	RB offset	Channel 23780	Channel 23790	Channel 23800
10MHz	QPSK	1	0	22.64	22.75	22.78
			24	22.79	22.82	**22.86**
			49	22.74	22.71	22.73
		25	0	21.93	21.90	21.88
			12	21.95	21.92	**21.89**
			25	21.88	21.88	21.87
		50	0	21.91	21.85	21.91
	16QAM	1	0	21.97	22.00	21.76
			24	22.04	22.07	21.79
			49	22.08	22.00	21.78
		25	0	20.93	20.93	20.92
			12	20.93	20.93	20.94
			25	20.93	20.97	20.98
		50	0	20.91	20.97	20.91

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LTE Band 25

Conducted Power of LTE Band 25						
Bandwidth	Modulation	RB size	RB offset	Channel 26047	Channel 26365	Channel 26683
1.4MHz	QPSK	1	0	20.92	21.14	21.50
			2	21.01	21.17	21.52
			5	20.94	21.09	21.50
		3	0	20.90	21.12	21.38
			1	20.91	21.12	21.40
			3	20.89	21.09	21.43
		6	0	19.90	20.11	20.66
	16QAM	1	0	20.19	20.09	20.57
			2	20.28	20.16	20.68
			5	20.15	20.08	20.59
		3	0	19.92	20.07	20.44
			1	19.92	20.08	20.36
			3	19.88	20.03	20.36
		6	0	19.02	19.16	19.51
Bandwidth	Modulation	RB size	RB offset	Channel 26055	Channel 26365	Channel 26675
3MHz	QPSK	1	0	20.94	21.25	21.64
			8	20.99	21.21	21.60
			14	21.01	21.22	21.59
		8	0	20.04	20.21	20.66
			4	20.04	20.24	20.62
			7	20.05	20.24	20.67
		15	0	20.08	20.21	20.60
	16QAM	1	0	20.27	20.46	20.51
			8	20.30	20.45	20.50
			14	20.24	20.40	20.51
		8	0	19.17	19.37	19.60
			4	19.13	19.37	19.61
			7	19.15	19.32	19.64
		15	0	19.11	19.24	19.47

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Conducted Power of LTE Band 25						
Bandwidth	Modulation	RB size	RB offset	Channel 26065	Channel 26365	Channel 26665
5MHz	QPSK	1	0	21.12	21.38	21.65
			12	21.18	21.40	21.69
			24	21.13	21.28	21.67
		12	0	20.07	20.29	20.56
			6	20.04	20.31	20.58
			13	20.09	20.22	20.60
		25	0	20.06	20.25	20.57
	16QAM	1	0	20.23	20.67	20.68
			12	20.25	20.64	20.69
			24	20.22	20.53	20.66
		12	0	19.16	19.39	19.64
			6	19.17	19.40	19.64
			13	19.11	19.30	19.60
		25	0	19.17	19.26	19.68
Bandwidth	Modulation	RB size	RB offset	Channel 26090	Channel 26365	Channel 26640
10MHz	QPSK	1	0	21.23	21.54	21.51
			24	21.01	21.21	21.48
			49	21.36	21.41	21.58
		25	0	20.09	20.30	20.52
			12	20.10	20.30	20.50
			25	20.19	20.23	20.59
		50	0	20.11	20.23	20.54
	16QAM	1	0	20.57	20.85	20.47
			24	20.31	20.53	20.51
			49	20.60	20.60	20.53
		25	0	19.15	19.43	19.62
			12	19.19	19.43	19.56
			25	19.17	19.31	19.63
		50	0	19.19	19.37	19.61

Conducted Power of LTE Band 25						
Bandwidth	Modulation	RB size	RB offset	Channel 26115	Channel 26365	Channel 26615
15MHz	QPSK	1	0	20.96	21.42	21.45
			38	20.99	21.20	21.51
			74	21.22	21.22	21.65
		38	0	20.10	20.31	20.58
			18	20.11	20.30	20.56
			37	20.13	20.30	20.56
		75	0	20.11	20.30	20.58
	16QAM	1	0	20.28	20.81	20.48
			38	20.23	20.63	20.46
			74	20.41	20.53	20.57
		38	0	20.11	20.30	20.56
			18	20.11	20.30	20.56
			37	20.15	20.30	20.58
		75	0	19.14	19.41	19.66
Bandwidth	Modulation	RB size	RB offset	Channel 26140	Channel 26365	Channel 26590
20MHz	QPSK	1	0	21.25	**21.72**	21.39
			49	21.20	21.30	21.35
			99	21.61	21.50	21.58
		50	0	20.10	**20.44**	20.59
			25	20.12	20.43	20.54
			50	20.35	20.26	20.58
		100	0	20.32	20.36	20.62
	16QAM	1	0	20.35	20.93	20.51
			49	20.27	20.52	20.54
			99	20.70	20.69	20.67
		50	0	19.17	19.48	19.64
			25	19.17	19.47	19.62
			50	19.40	19.36	19.68
		100	0	19.37	19.38	19.67

LTE Band 26

Conducted Power of LTE Band 26						
Bandwidth	Modulation	RB size	RB offset	Channel 26697	Channel 26740	Channel 26783
1.4MHz	QPSK	1	0	22.58	22.47	22.36
			2	22.57	22.51	22.42
			5	22.59	22.50	22.47
		3	0	22.65	22.51	22.41
			1	22.64	22.50	22.48
			3	22.56	22.52	22.54
		6	0	21.59	21.52	21.51
	16QAM	1	0	21.83	21.68	21.66
			2	21.87	21.84	21.78
			5	21.75	21.72	21.71
		3	0	21.59	21.54	21.48
			1	21.59	21.54	21.46
			3	21.57	21.51	21.49
		6	0	20.72	20.48	20.64
Bandwidth	Modulation	RB size	RB offset	Channel 26705	Channel 26740	Channel 26775
3MHz	QPSK	1	0	22.58	22.64	22.54
			8	22.55	22.56	22.44
			14	22.57	22.56	22.55
		8	0	21.69	21.58	21.48
			4	21.67	21.60	21.49
			7	21.60	21.57	21.61
		15	0	21.64	21.61	21.57
	16QAM	1	0	21.89	21.84	21.50
			8	21.88	21.81	21.48
			14	21.78	21.79	21.56
		8	0	20.76	20.69	20.62
			4	20.76	20.68	20.63
			7	20.71	20.64	20.67
		15	0	20.72	20.61	20.65

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Conducted Power of LTE Band 26						
Bandwidth	Modulation	RB size	RB offset	Channel 26715	Channel 26740	Channel 26765
5MHz	QPSK	1	0	22.73	22.68	22.62
			12	22.69	22.71	22.62
			24	22.60	22.59	22.51
		12	0	21.71	21.65	21.57
			6	21.70	21.65	21.57
			13	21.62	21.53	21.52
		25	0	21.69	21.62	21.54
	16QAM	1	0	21.82	21.96	21.71
			12	21.83	22.04	21.77
			24	21.71	21.91	21.67
		12	0	20.72	20.80	20.74
			6	20.73	20.74	20.74
			13	20.69	20.70	20.63
		25	0	20.74	20.68	20.69
Bandwidth	Modulation	RB size	RB offset	Channel 26740		
10MHz	QPSK	1	0	22.61		
			24	22.52		
			49	22.41		
		25	0	21.70		
			12	21.65		
			25	21.57		
		50	0	21.63		
	16QAM	1	0	21.94		
			24	21.80		
			49	21.79		
		25	0	20.72		
			12	20.72		
			25	20.63		
		50	0	20.64		

Conducted Power of LTE Band 26				
Bandwidth	Modulation	RB size	RB offset	Channel
				26765
15MHz	QPSK	1	0	**22.61**
			38	22.46
			74	22.48
		38	0	**21.65**
			18	21.61
			37	21.64
		75	0	21.58
	16QAM	1	0	21.91
			38	21.83
			74	21.82
		38	0	21.59
			18	21.62
			37	21.58
		75	0	20.68

LTE Band 41

Conducted Power of LTE Band 41							
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel
					39675	40620	41565
5MHz	QPSK	1	0	21.50	20.47	20.63	21.30
			12	21.50	20.53	20.84	21.23
			24	21.50	20.49	20.76	21.22
		12	0	20.50	19.59	19.76	20.32
			6	20.50	19.68	19.65	20.25
			13	21.00	19.57	19.68	20.50
		25	0	20.50	19.58	19.71	20.37
	16QAM	1	0	21.00	19.93	20.08	20.71
			12	21.00	19.97	20.20	20.61
			24	21.00	20.00	20.21	20.65
		12	0	20.00	18.76	18.80	19.52
			6	20.00	18.76	18.79	19.61
			13	19.50	18.74	18.79	19.43
		25	0	20.00	18.79	18.84	19.63
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel	Channel	Channel
					39700	40620	41540
10MHz	QPSK	1	0	21.50	20.57	20.48	21.25
			24	21.50	20.39	20.65	21.34
			49	21.50	20.44	20.66	21.34
		25	0	20.50	19.49	19.66	20.39
			12	20.50	19.46	19.69	20.36
			25	20.50	19.53	19.79	20.46
		50	0	20.50	19.52	19.71	20.40
	16QAM	1	0	20.50	20.00	19.93	20.24
			24	21.00	19.81	20.10	20.58
			49	20.50	19.84	20.13	20.39
		25	0	20.00	18.65	18.83	19.53
			12	20.00	18.65	18.87	19.53
			25	20.00	18.69	19.03	19.59
		50	0	20.00	18.59	18.86	19.53

Conducted Power of LTE Band 41							
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel 39725	Channel 40620	Channel 41515
15MHz	QPSK	1	0	21.50	20.54	20.55	21.33
			38	21.50	20.41	20.73	21.33
			74	21.50	20.50	20.81	21.40
		36	0	20.50	19.53	19.66	20.39
			18	20.50	19.45	19.70	20.19
			37	20.50	19.49	19.70	20.23
		75	0	20.50	19.49	19.72	20.22
	16QAM	1	0	20.50	20.01	20.13	20.49
			38	20.50	19.88	20.20	20.40
			74	20.50	19.97	20.16	20.49
		36	0	20.50	19.45	19.72	20.21
			18	20.50	19.49	19.72	20.19
			37	20.50	19.44	19.68	20.19
		75	0	19.50	18.62	18.88	19.48
Bandwidth	Modulation	RB size	RB offset	Maximum Tune-up (dBm)	Channel 39750	Channel 40620	Channel 41490
20MHz	QPSK	1	0	21.50	20.64	20.62	21.24
			49	21.50	20.60	20.71	21.29
			99	**21.50**	20.61	20.89	**21.40**
		50	0	20.50	19.64	19.70	**20.40**
			25	20.50	19.55	19.70	20.22
			50	20.50	19.59	19.81	20.29
		100	0	20.50	19.47	19.81	20.45
	16QAM	1	0	20.00	19.92	19.92	19.91
			49	20.50	19.85	20.04	19.96
			99	20.50	19.85	20.12	20.15
		50	0	20.00	18.72	18.73	19.60
			25	20.00	18.73	18.76	19.66
			50	20.00	18.66	19.00	19.67
		100	0	20.00	18.59	18.85	19.55

LTE Band 66

Conducted Power of LTE Band 66						
Bandwidth	Modulation	RB size	RB offset	Channel 131979	Channel 132322	Channel 132665
1.4MHz	QPSK	1	0	21.84	21.54	21.47
			2	21.94	21.64	21.54
			5	21.85	21.60	21.48
		3	0	21.86	21.61	21.43
			1	21.86	21.61	21.45
			3	21.88	21.59	21.42
		6	0	20.84	20.61	20.50
	16QAM	1	0	21.05	20.79	20.42
			2	21.17	20.94	20.53
			5	21.06	20.76	20.45
		3	0	20.92	20.63	20.37
			1	20.92	20.63	20.40
			3	20.87	20.60	20.33
		6	0	19.79	19.69	19.57
Bandwidth	Modulation	RB size	RB offset	Channel 131987	Channel 132322	Channel 132657
3MHz	QPSK	1	0	21.75	21.52	21.40
			8	21.92	21.67	21.53
			14	21.81	21.57	21.43
		8	0	20.90	20.64	20.52
			4	20.93	20.66	20.52
			7	20.88	20.64	20.52
		15	0	20.94	20.66	20.47
	16QAM	1	0	21.07	20.71	20.36
			8	21.24	20.90	20.53
			14	21.01	20.72	20.38
		8	0	20.05	19.69	19.56
			4	20.05	19.69	19.56
			7	20.00	19.70	19.56
		15	0	20.00	19.60	19.45

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Conducted Power of LTE Band 66						
Bandwidth	Modulation	RB size	RB offset	Channel 131997	Channel 132322	Channel 132647
5MHz	QPSK	1	0	21.87	21.52	21.43
			12	22.11	21.81	21.71
			24	21.81	21.58	21.42
		12	0	20.93	20.64	20.47
			6	20.88	20.59	20.47
			13	20.84	20.60	20.40
		25	0	20.87	20.63	20.47
	16QAM	1	0	20.95	20.81	20.54
			12	21.17	21.12	20.78
			24	20.93	20.83	20.53
		12	0	19.95	19.69	19.57
			6	19.93	19.71	19.53
			13	19.94	19.69	19.51
		25	0	19.98	19.62	19.55
Bandwidth	Modulation	RB size	RB offset	Channel 132022	Channel 132322	Channel 132622
10MHz	QPSK	1	0	21.88	21.60	21.55
			24	21.90	21.67	21.59
			49	21.84	21.63	21.50
		25	0	20.95	20.59	20.50
			12	20.90	20.60	20.49
			25	20.91	20.64	20.48
		50	0	20.92	20.64	20.44
	16QAM	1	0	21.20	20.84	20.54
			24	21.23	20.92	20.49
			49	21.08	20.92	20.47
		25	0	19.93	19.72	19.55
			12	19.95	19.73	19.58
			25	19.97	19.77	19.58
		50	0	19.99	19.69	19.49

Conducted Power of LTE Band 66						
Bandwidth	Modulation	RB size	RB offset	Channel 132047	Channel 132322	Channel 132597
15MHz	QPSK	1	0	21.95	21.58	21.66
			38	21.99	21.79	21.65
			74	21.79	21.84	21.54
		38	0	20.85	20.61	20.55
			18	20.84	20.61	20.57
			37	20.84	20.61	20.57
		75	0	20.84	20.61	20.49
	16QAM	1	0	21.23	20.93	20.60
			38	21.32	21.14	20.61
			74	21.24	21.06	20.58
		38	0	20.85	20.61	20.57
			18	20.84	20.61	20.57
			37	20.84	20.61	20.57
		75	0	19.92	19.66	19.55
Bandwidth	Modulation	RB size	RB offset	Channel 132072	Channel 132322	Channel 132572
20MHz	QPSK	1	0	21.98	21.67	21.61
			49	**22.01**	21.84	21.56
			99	21.76	21.78	21.39
		50	0	**20.87**	20.56	20.54
			25	20.86	20.56	20.56
			50	20.81	20.65	20.45
		100	0	20.84	20.61	20.53
	16QAM	1	0	21.09	20.91	20.84
			49	21.14	21.04	20.71
			99	20.90	21.02	20.63
		50	0	19.94	19.68	19.61
			25	19.95	19.68	19.62
			50	19.88	19.76	19.52
		100	0	19.91	19.70	19.59

LTE Band 71

Conducted Power of LTE Band 71						
Bandwidth	Modulation	RB size	RB offset	Channel 133147	Channel 133297	Channel 133447
5MHz	QPSK	1	0	23.18	22.97	23.02
			12	23.14	23.02	23.11
			24	22.99	22.95	22.94
		12	0	22.18	22.00	21.95
			6	22.18	22.00	21.94
			13	22.03	21.98	21.94
		25	0	22.08	21.99	21.91
	16QAM	1	0	22.16	22.19	22.02
			12	22.22	22.34	22.18
			24	22.09	22.21	22.00
		12	0	21.21	21.10	21.06
			6	21.23	21.06	21.04
			13	21.11	21.06	21.12
		25	0	21.14	20.98	20.98
Bandwidth	Modulation	RB size	RB offset	Channel 133172	Channel 133297	Channel 133422
10MHz	QPSK	1	0	23.08	22.92	22.90
			24	22.94	22.92	22.93
			49	22.87	22.92	22.90
		25	0	22.12	22.02	21.93
			12	22.11	22.03	21.95
			25	22.01	21.99	21.94
		50	0	22.07	21.98	21.97
	16QAM	1	0	22.34	22.18	21.93
			24	22.24	22.17	21.88
			49	22.18	22.18	21.89
		25	0	21.15	21.10	21.05
			12	21.14	21.11	21.05
			25	21.09	21.04	21.00
		50	0	21.09	21.05	21.07

Conducted Power of LTE Band 71						
Bandwidth	Modulation	RB size	RB offset	Channel 133197	Channel 133297	Channel 133397
15MHz	QPSK	1	0	23.09	22.92	23.00
			38	22.90	22.91	22.97
			74	22.84	22.90	22.96
		38	0	22.32	22.28	22.05
			18	22.19	22.26	22.02
			37	22.11	22.31	21.88
		75	0	22.03	21.97	21.91
	16QAM	1	0	22.31	22.29	22.02
			38	22.17	22.23	21.98
			74	22.12	22.30	21.90
		38	0	22.36	22.29	22.03
			18	22.20	22.25	21.96
			37	22.11	22.30	21.88
		75	0	21.04	21.04	21.02
Bandwidth	Modulation	RB size	RB offset	Channel 133222	Channel 133297	Channel 133372
20MHz	QPSK	1	0	**23.17**	23.08	22.87
			49	22.97	22.98	22.81
			99	22.92	23.03	22.83
		50	0	**22.09**	22.01	21.99
			25	22.06	22.01	21.99
			50	22.00	21.91	21.97
		100	0	22.01	21.99	21.98
	16QAM	1	0	22.30	22.33	22.04
			49	22.04	22.19	22.04
			99	22.02	22.29	21.99
		50	0	21.11	21.14	21.07
			25	21.18	21.14	21.07
			50	21.07	21.04	21.10
		100	0	21.09	21.08	21.06