



Radiated Power (EIRP) for LTE Band 41 / 15M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	7.35	2.56	10.60	15.39	Horizontal	Pass
	1	0	Middle	7.67	2.67	10.65	15.65	Horizontal	Pass
	1	0	Highest	7.34	2.72	10.70	15.32	Horizontal	Pass
	1	0	Lowest	8.81	2.56	10.60	16.85	Vertical	Pass
	1	0	Middle	9.06	2.67	10.65	17.04	Vertical	Pass
	1	0	Highest	8.75	2.72	10.70	16.73	Vertical	Pass
16QAM	1	0	Lowest	7.18	2.56	10.60	15.22	Horizontal	Pass
	1	0	Middle	7.17	2.67	10.65	15.15	Horizontal	Pass
	1	0	Highest	7.25	2.72	10.70	15.23	Horizontal	Pass
	1	0	Lowest	8.64	2.56	10.60	16.68	Vertical	Pass
	1	0	Middle	8.66	2.67	10.65	16.64	Vertical	Pass
	1	0	Highest	8.55	2.72	10.70	16.53	Vertical	Pass
Limit	EIRP<2W=33dBm								

Radiated Power (EIRP) for LTE Band 41 / 20M									
Modulation	RB		Channel	Result					Conclusion
	Size	Offset		S G.Level (dBm)	Cable loss	Gain (dBi)	PMeas E.I.R.P.(dBm)	Polarization Of Max. EIRP	
QPSK	1	0	Lowest	7.43	2.56	10.60	15.47	Horizontal	Pass
	1	0	Middle	8.02	2.67	10.65	16.00	Horizontal	Pass
	1	0	Highest	7.39	2.72	10.70	15.37	Horizontal	Pass
	1	0	Lowest	8.92	2.56	10.60	16.96	Vertical	Pass
	1	0	Middle	9.41	2.67	10.65	17.39	Vertical	Pass
	1	0	Highest	8.77	2.72	10.70	16.75	Vertical	Pass
16QAM	1	0	Lowest	7.06	2.56	10.60	15.10	Horizontal	Pass
	1	0	Middle	7.65	2.67	10.65	15.63	Horizontal	Pass
	1	0	Highest	7.2	2.72	10.70	15.18	Horizontal	Pass
	1	0	Lowest	8.54	2.56	10.60	16.58	Vertical	Pass
	1	0	Middle	9.06	2.67	10.65	17.04	Vertical	Pass
	1	0	Highest	8.55	2.72	10.70	16.53	Vertical	Pass
Limit	EIRP<2W=33dBm								

6. OCCUPIED BANDWIDTH

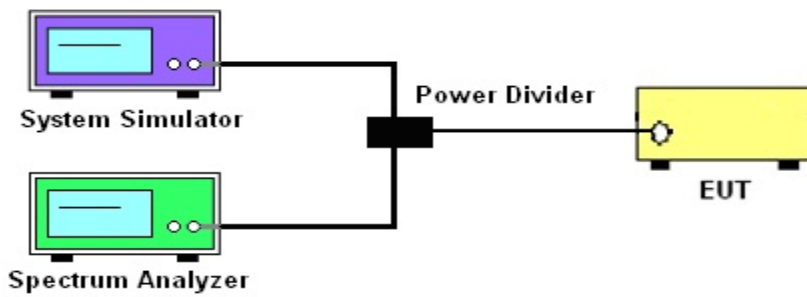
6.1 DESCRIPTION OF OCCUPIED BANDWIDTH MEASUREMENT

6.1.1 MEASUREMENT METHOD

1.The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

2.The 26 db emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 db below the maximum in-band spectral density of the modulated signal. spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

6.1.2 TEST SETUP



6.1.3 TEST PROCEDURES

1. The testing follows FCC KDB 971168 D01 v03r01 Section 4.2 and 4.3.
2. The EUT was connected to spectrum and system simulator via a power divider.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Set the test probe and measure the Occupied Bandwidth of the spectrum analyzer.
5. Measure and record the Occupied Bandwidth from the Spectrum Analyzer.

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	3MHz	6MHz	10MHz	20MHz	30MHz	40MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto



6.1.4 MEASUREMENT RESULT

LTE Band 2 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.096	1.251	1.102	1.236	1.092	1.243
1.4	16-QAM	1.096	1.245	1.0887	1.228	1.094	1.241
3	QPSK	2.684	2.932	2.6879	2.936	2.681	2.937
3	16-QAM	2.6795	2.916	2.681	2.938	2.679	2.933
5	QPSK	4.502	4.982	4.499	4.972	4.513	4.985
5	16-QAM	4.499	4.964	4.519	4.993	4.517	4.997
10	QPSK	8.927	9.664	8.938	9.659	8.929	9.654
10	16-QAM	8.933	9.562	8.935	9.58	8.929	9.586
15	QPSK	13.447	14.62	13.478	14.73	13.454	14.74
15	16-QAM	13.468	14.59	13.492	14.67	13.464	14.7
20	QPSK	17.875	19.19	17.936	19.52	17.9	19.19
20	16-QAM	17.935	19.31	17.902	19.39	17.88	19.21
LTE Band 4 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.0949	1.248	1.1005	1.237	1.0869	1.244
1.4	16-QAM	1.0947	1.249	1.088	1.232	1.093	1.245
3	QPSK	2.689	2.938	2.6818	2.939	2.681	2.924
3	16-QAM	2.68	2.949	2.682	2.944	2.679	2.937
5	QPSK	4.505	4.952	4.4935	4.962	4.516	4.985
5	16-QAM	4.501	4.938	4.524	4.987	4.517	4.99
10	QPSK	8.92	9.625	8.934	9.665	8.934	9.678
10	16-QAM	8.9398	9.647	8.934	9.599	8.93	9.583
15	QPSK	13.439	14.64	13.477	14.8	13.479	14.74
15	16-QAM	13.47	14.73	13.473	14.66	13.485	14.72
20	QPSK	17.886	19.33	17.91	19.43	17.911	19.26
20	16-QAM	17.91	19.4	17.891	19.38	17.936	19.32
LTE Band 5 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.0944	1.243	1.102	1.235	1.092	1.24
1.4	16-QAM	1.096	1.242	1.092	1.232	1.094	1.24
3	QPSK	2.683	2.929	2.69	2.938	2.683	2.933
3	16-QAM	2.68	2.949	2.6812	2.956	2.6812	2.934
5	QPSK	4.51	4.997	4.5	4.97	4.508	4.963
5	16-QAM	4.501	4.962	4.529	4.981	4.516	4.977
10	QPSK	8.937	9.619	8.925	9.637	8.94	9.694
10	16-QAM	8.952	9.733	8.927	9.596	8.929	9.615



LTE Band 7 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
5	QPSK	4.595	4.933	4.52	4.985	4.508	4.986
5	16-QAM	4.523	4.979	4.52	4.988	4.501	4.951
10	QPSK	8.938	9.671	8.935	9.64	8.939	9.635
10	16-QAM	8.938	9.668	8.936	9.575	8.936	9.639
15	QPSK	13.44	14.74	13.484	14.81	13.492	14.71
15	16-QAM	13.486	14.68	13.492	14.69	13.491	14.74
20	QPSK	17.896	19.27	17.957	19.53	17.918	19.24
20	16-QAM	17.932	19.4	17.945	19.43	17.904	19.3
LTE Band 12 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
1.4	QPSK	1.092	1.243	1.0911	1.243	1.0925	1.246
1.4	16-QAM	1.096	1.251	1.09	1.229	1.0928	1.246
3	QPSK	2.685	2.928	2.6911	2.936	2.685	2.942
3	16-QAM	2.682	2.934	2.6835	2.948	2.681	2.948
5	QPSK	4.508	4.971	4.502	4.975	4.517	4.965
5	16-QAM	4.508	4.945	4.525	5.006	4.516	4.99
10	QPSK	8.928	9.632	8.945	9.7	8.951	9.713
10	16-QAM	8.926	9.568	8.943	9.616	8.936	9.725
LTE Band 13 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
5	QPSK	4.49.01	4.955	4.495	4.96	4.5202	5.003
5	16-QAM	4.483	4.964	4.511	4.98	4.515	4.989
10	QPSK	N/A	N/A	8.921	9.6	N/A	N/A
10	16-QAM	N/A	N/A	8.914	9.579	N/A	N/A
LTE Band 41 Bandwidth [MHz]							
BW [MHz]	Mode	Lowest		Middle		Highest	
		99% BW	26dB BW	99% BW	26dB BW	99% BW	26dB BW
5	QPSK	4.4977	5.002	4.495	4.972	4.507	4.928
5	16-QAM	4.497	4.972	4.497	5.067	4.496	5.044
10	QPSK	8.933	9.694	8.93	9.696	8.934	9.806
10	16-QAM	8.932	9.612	8.921	9.493	8.924	9.603
15	QPSK	13.455	14.88	13.458	15.98	13.49	15.47
15	16-QAM	13.517	15.33	13.512	14.92	13.47	15.52
20	QPSK	17.884	19.81	17.892	19.66	17.892	19.19
20	16-QAM	17.899	20.37	17.867	19.22	17.913	19.85

Note: Test chart See Appendix A



7. CONDUCTED BAND EDGE

7.1 DESCRIPTION OF CONDUCTED BAND EDGE MEASUREMENT

7.1.1 MEASUREMENT METHOD

1. §22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

2. §24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed

3. §27.53 (h)

For operations in the 1710 – 1755 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

4. §27.53(m)(4)

For operations in the 2496 MHz ~ 2690 MHz and 2500 MHz ~ 2570 MHz band this section, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

5. §27.53 (g)

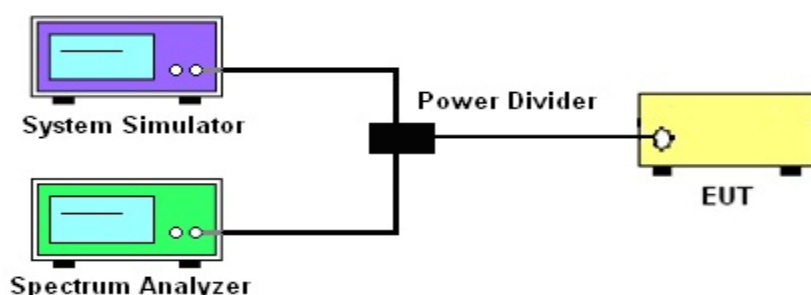
For operations in the 698 -746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

6. §27.53 (c)

For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.

7.1.2 TEST SETUP



7.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The band edges of low and high channels for the highest RF powers were measured. Set RBW $\geq 1\%$ EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Set spectrum analyzer with RMS/AVG detector.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)

$$= P(W) - [43 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$$

$$= -13\text{dBm}.$$
 Band 7:

$$= P(W) - [55 + 10\log(P)] \text{ (dB)}$$

$$= [30 + 10\log(P)] \text{ (dBm)} - [55 + 10\log(P)] \text{ (dB)}$$

$$= -25\text{dBm}.$$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	12MHz	13MHz	15MHz	20MHz	25MHz	30MHz
RBW	30kHz	30kHz	100kHz	100kHz	300kHz	300kHz
VBW	100kHz	100kHz	300kHz	300kHz	1000kHz	1000kHz
Detector	RMS	RMS	RMS	RMS	RMS	RMS
Trace	Max	Max	Max	Max	Max	Max
Sweep Count	Auto	Auto	Auto	Auto	Auto	Auto

7.1.4 MEASUREMENT RESULT

Note: Test chart See Appendix B

8. CONDUCTED SPURIOUS EMISSION

8.1 DESCRIPTION OF CONDUCTED SPURIOUS EMISSION MEASUREMENT

8.1.1 MEASUREMENT METHOD

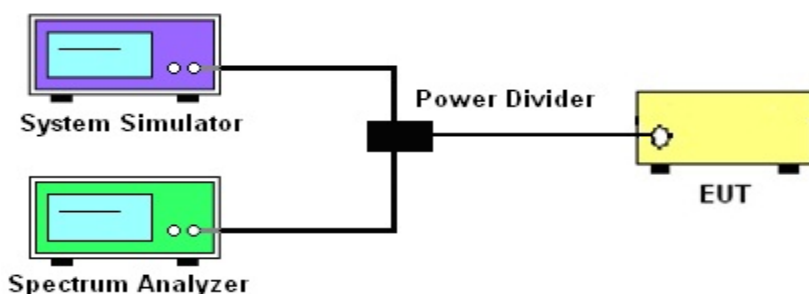
The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For Band 7:

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

8.1.2 TEST SETUP



8.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 v03r01 Section 6.0 and ANSI C63.26 2015 Section 5.7.
2. The EUT was connected to spectrum analyzer and system simulator via a power divider.
3. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement
4. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
5. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
6. The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
 $= P(W) - [43 + 10\log(P)] \text{ (dB)} = [30 + 10\log(P)] \text{ (dBm)} - [43 + 10\log(P)] \text{ (dB)}$
 $= -13\text{dBm}.$

For Band 7: $P(W) - [43 + 10\log(P)] \text{ (dB)} = -25\text{dBm}$

	LTE					
LTE BW	1.4M	3M	5M	10M	15M	20M
Span	Auto	Auto	Auto	Auto	Auto	Auto
RBW	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz	1000kHz
VBW	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz	3000kHz
Detector	PK	PK	PK	PK	PK	PK
Trace	Max	Max	Max	Max	Max	Max

8.1.4 TEST RESULTS

Note: Test chart See Appendix C



9. RADIATED SPURIOUS EMISSION

9.1 DESCRIPTION OF RADIATED SPURIOUS EMISSION

9.1.1 MEASUREMENT METHOD

The radiated spurious emission was measured by substitution method according to ANSI C63.26 2015. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

For Band 7 The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB. The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

9.1.2 TEST SETUP

The procedure of radiated spurious emissions is as follows:

a) Pre-calibration With pre-calibration method, the Radiated Spurious Emissions(RSE) is calculated as, $RSE = Rx (dBuV) + CL (dB) + SA (dB) + Gain (dBi) - 107 (dBuV \text{ to } dBm)$ The SA is calibrated using following setup.

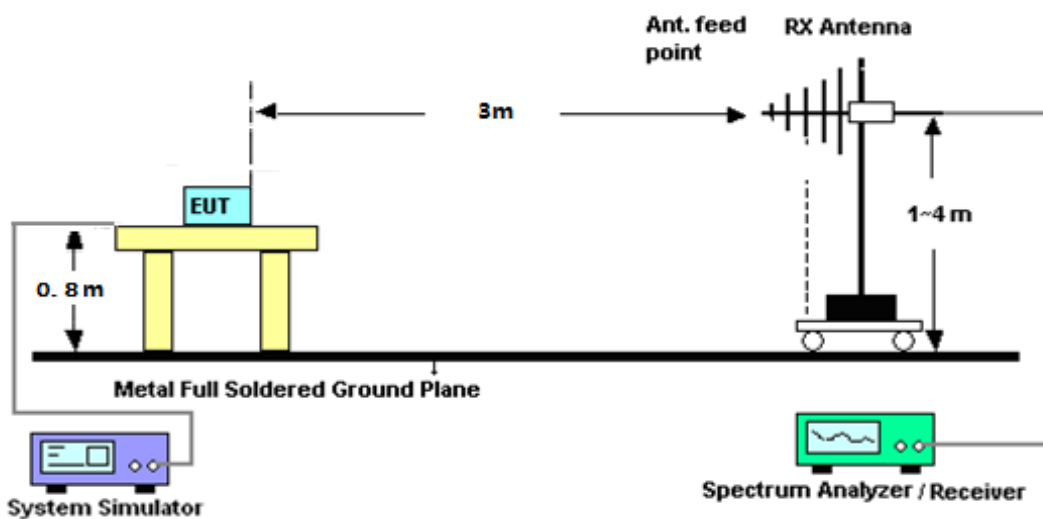
b) EUT was placed on 1.5 m non-conductive stand at a 3 m test distance from the receive antenna. A receiving antenna was placed on the antenna mast 3 m from the test item for emission measurements. The height of receiving antenna is 0.8m. The test setup refers to figure below. Detected emissions were maximized at each frequency by rotating the test item and adjusting the receiving antenna polarization. The radiated emission measurements of all non-harmonic and harmonics of the transmit frequency through the 10th harmonic measured with peak detector and 1MHz bandwidth.

Radiated emissions measurements were made only at the upper, middle, and lower carrier frequencies It was decided that measurements at these three carrier frequencies would be sufficient to demonstrate compliance with emissions limits because it was seen that all the significant spurs occur well outside the band and no radiation was seen from a carrier in one block of any band into any of the other blocks.

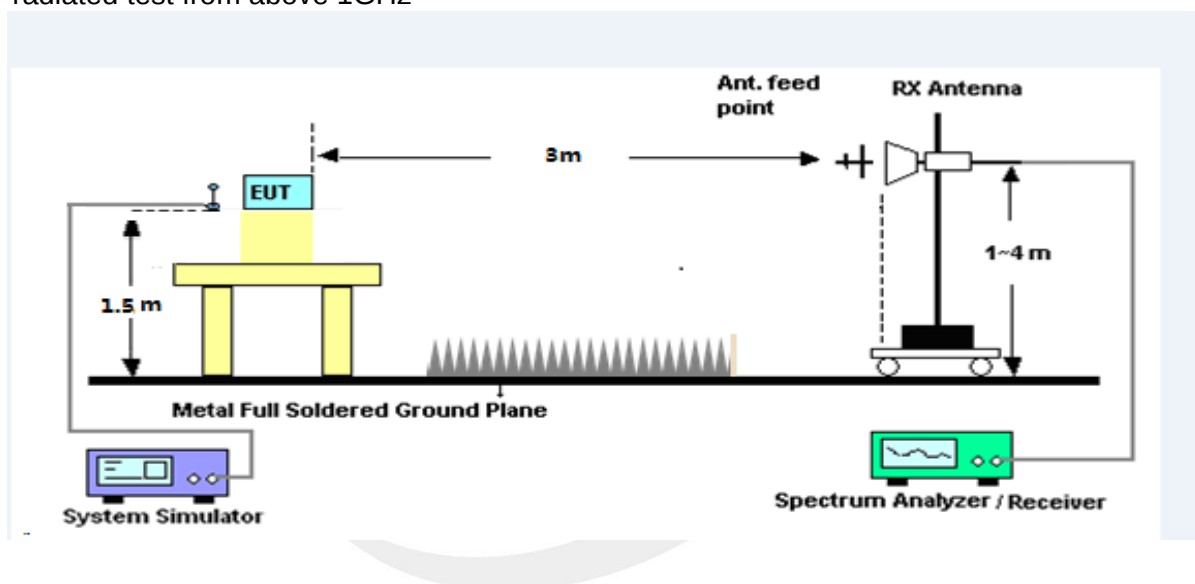
The substitution method is used. Substitution values at each frequency are measured before and saved to the test software. A "reference path loss" is established and the ARpl is the attenuation of "reference path loss", and including the gain of receive antenna, the gain of the preamplifier, the cable loss and the air loss. The measurement results are obtained as described below:

$Power = P_{Mea} + AR_{pl}$

For radiated test from 30MHz to 1GHz



For radiated test from above 1GHz





9.1.3 TEST PROCEDURES

1. The testing FCC KDB 971168 D01 Section 7 and ANSI C63.26 2015 Section 5.5.
2. The EUT was placed on a rotatable wooden table with 1.5 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

The limit line is derived from $43 + 10\log(P)$ dB below the transmitter power P(Watts)
= $P(W) - [43 + 10\log(P)]$ (dB)
= $[30 + 10\log(P)]$ (dBm) - $[43 + 10\log(P)]$ (dB)
= -13dBm

For Band 7:

The limit line is derived from $55 + 10\log(P)$ dB below the transmitter power P(Watts)
= $[30 + 10\log(P)]$ (dBm) - $[55 + 10\log(P)]$ (dB)
= -25dBm

$P_{Mea} = S.G \text{ Level} + \text{Ant-Cable loss}$; $\text{Margin} = P_{Mea} - \text{Limit}$.



9.1.4 TEST RESULTS

LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.75	-34.20	12.60	12.93	-34.53	-13.00	-21.53	H
5557.17	-34.59	13.10	17.11	-38.60	-13.00	-25.60	H
7409.54	-33.25	11.50	22.20	-43.95	-13.00	-30.95	H
3703.75	-34.60	12.60	12.93	-34.93	-13.00	-21.93	V
5557.17	-34.01	13.10	17.11	-38.02	-13.00	-25.02	V
7409.54	-32.12	11.50	22.20	-42.82	-13.00	-29.82	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.61	-34.36	12.60	12.93	-34.69	-13.00	-21.69	H
5639.83	-34.91	13.10	17.11	-38.92	-13.00	-25.92	H
7520.03	-32.91	11.50	22.20	-43.61	-13.00	-30.61	H
3759.61	-34.65	12.60	12.93	-34.98	-13.00	-21.98	V
5639.83	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7520.03	-32.89	11.50	22.20	-43.59	-13.00	-30.59	V
LTE Band 2 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3817.93	-34.64	12.60	12.93	-34.97	-13.00	-21.97	H
5727.35	-35.30	13.10	17.11	-39.31	-13.00	-26.31	H
7636.84	-33.53	11.50	22.20	-44.23	-13.00	-31.23	H
3817.93	-34.52	12.60	12.93	-34.85	-13.00	-21.85	V
5727.35	-34.72	13.10	17.11	-38.73	-13.00	-25.73	V
7636.84	-32.90	11.50	22.20	-43.60	-13.00	-30.60	V



LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3703.95	-34.22	12.60	12.93	-34.55	-13.00	-21.55	H
5557.14	-35.42	13.10	17.11	-39.43	-13.00	-26.43	H
7409.66	-33.02	11.50	22.20	-43.72	-13.00	-30.72	H
3703.95	-35.19	12.60	12.93	-35.52	-13.00	-22.52	V
5557.14	-34.28	13.10	17.11	-38.29	-13.00	-25.29	V
7409.66	-32.16	11.50	22.20	-42.86	-13.00	-29.86	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.70	-33.78	12.60	12.93	-34.11	-13.00	-21.11	H
5639.81	-34.48	13.10	17.11	-38.49	-13.00	-25.49	H
7520.21	-32.18	11.50	22.20	-42.88	-13.00	-29.88	H
3759.70	-35.95	12.60	12.93	-36.28	-13.00	-23.28	V
5639.81	-34.62	13.10	17.11	-38.63	-13.00	-25.63	V
7520.21	-32.95	11.50	22.20	-43.65	-13.00	-30.65	V
LTE Band 2 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3818.28	-34.32	12.60	12.93	-34.65	-13.00	-21.65	H
5727.23	-34.11	13.10	17.11	-38.12	-13.00	-25.12	H
7636.62	-33.32	11.50	22.20	-44.02	-13.00	-31.02	H
3818.28	-34.76	12.60	12.93	-35.09	-13.00	-22.09	V
5727.23	-34.36	13.10	17.11	-38.37	-13.00	-25.37	V
7636.62	-32.88	11.50	22.20	-43.58	-13.00	-30.58	V



LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3704.79	-34.00	12.60	12.93	-34.33	-13.00	-21.33	H
5558.02	-34.62	13.10	17.11	-38.63	-13.00	-25.63	H
7410.31	-32.33	11.50	22.20	-43.03	-13.00	-30.03	H
3704.79	-35.75	12.60	12.93	-36.08	-13.00	-23.08	V
5558.02	-34.22	13.10	17.11	-38.23	-13.00	-25.23	V
7410.31	-32.02	11.50	22.20	-42.72	-13.00	-29.72	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3759.62	-34.67	12.60	12.93	-35.00	-13.00	-22.00	H
5639.66	-35.41	13.10	17.11	-39.42	-13.00	-26.42	H
7520.18	-32.21	11.50	22.20	-42.91	-13.00	-29.91	H
3759.62	-35.14	12.60	12.93	-35.47	-13.00	-22.47	V
5639.66	-34.08	13.10	17.11	-38.09	-13.00	-25.09	V
7520.18	-32.19	11.50	22.20	-42.89	-13.00	-29.89	V
LTE Band 2 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3813.60	-33.47	12.60	12.93	-33.80	-13.00	-20.80	H
5721.57	-35.42	13.10	17.11	-39.43	-13.00	-26.43	H
7628.73	-33.33	11.50	22.20	-44.03	-13.00	-31.03	H
3813.60	-35.45	12.60	12.93	-35.78	-13.00	-22.78	V
5721.57	-34.89	13.10	17.11	-38.90	-13.00	-25.90	V
7628.73	-32.92	11.50	22.20	-43.62	-13.00	-30.62	V



LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3710.28	-34.50	12.60	12.93	-34.83	-13.00	-21.83	H
5565.62	-35.01	13.10	17.11	-39.02	-13.00	-26.02	H
7420.59	-33.12	11.50	22.20	-43.82	-13.00	-30.82	H
3710.28	-34.94	12.60	12.93	-35.27	-13.00	-22.27	V
5565.62	-34.49	13.10	17.11	-38.50	-13.00	-25.50	V
7420.59	-31.82	11.50	22.20	-42.52	-13.00	-29.52	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.84	-34.57	12.60	12.93	-34.90	-13.00	-21.90	H
5639.59	-34.92	13.10	17.11	-38.93	-13.00	-25.93	H
7520.21	-32.98	11.50	22.20	-43.68	-13.00	-30.68	H
3759.84	-34.87	12.60	12.93	-35.20	-13.00	-22.20	V
5639.59	-34.50	13.10	17.11	-38.51	-13.00	-25.51	V
7520.21	-32.66	11.50	22.20	-43.36	-13.00	-30.36	V
LTE Band 2 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3809.16	-34.82	12.60	12.93	-35.15	-13.00	-22.15	H
5713.52	-34.52	13.10	17.11	-38.53	-13.00	-25.53	H
7617.88	-33.62	11.50	22.20	-44.32	-13.00	-31.32	H
3809.16	-35.15	12.60	12.93	-35.48	-13.00	-22.48	V
5713.52	-33.93	13.10	17.11	-37.94	-13.00	-24.94	V
7617.88	-32.65	11.50	22.20	-43.35	-13.00	-30.35	V



LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3715.66	-34.64	12.60	12.93	-34.97	-13.00	-21.97	H
5573.81	-35.44	13.10	17.11	-39.45	-13.00	-26.45	H
7618.31	-33.58	11.50	22.20	-44.28	-13.00	-31.28	H
3715.66	-35.00	12.60	12.93	-35.33	-13.00	-22.33	V
5573.81	-34.77	13.10	17.11	-38.78	-13.00	-25.78	V
7618.31	-32.35	11.50	22.20	-43.05	-13.00	-30.05	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.96	-34.20	12.60	12.93	-34.53	-13.00	-21.53	H
5639.83	-34.38	13.10	17.11	-38.39	-13.00	-25.39	H
7519.88	-32.73	11.50	22.20	-43.43	-13.00	-30.43	H
3759.96	-35.68	12.60	12.93	-36.01	-13.00	-23.01	V
5639.83	-35.03	13.10	17.11	-39.04	-13.00	-26.04	V
7519.88	-32.99	11.50	22.20	-43.69	-13.00	-30.69	V
LTE Band 2 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3803.43	-33.81	12.60	12.93	-34.14	-13.00	-21.14	H
5705.35	-35.16	13.10	17.11	-39.17	-13.00	-26.17	H
7607.01	-33.38	11.50	22.20	-44.08	-13.00	-31.08	H
3803.43	-34.66	12.60	12.93	-34.99	-13.00	-21.99	V
5705.35	-33.86	13.10	17.11	-37.87	-13.00	-24.87	V
7607.01	-33.19	11.50	22.20	-43.89	-13.00	-30.89	V



LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3721.31	-34.33	12.60	12.93	-34.66	-13.00	-21.66	H
5580.91	-34.80	13.10	17.11	-38.81	-13.00	-25.81	H
7441.53	-33.09	11.50	22.20	-43.79	-13.00	-30.79	H
3721.31	-35.65	12.60	12.93	-35.98	-13.00	-22.98	V
5580.91	-34.06	13.10	17.11	-38.07	-13.00	-25.07	V
7441.53	-32.51	11.50	22.20	-43.21	-13.00	-30.21	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3759.52	-33.88	12.60	12.93	-34.21	-13.00	-21.21	H
5639.39	-34.91	13.10	17.11	-38.92	-13.00	-25.92	H
7519.80	-33.19	11.50	22.20	-43.89	-13.00	-30.89	H
3759.52	-35.49	12.60	12.93	-35.82	-13.00	-22.82	V
5639.39	-34.77	13.10	17.11	-38.78	-13.00	-25.78	V
7519.80	-33.21	11.50	22.20	-43.91	-13.00	-30.91	V
LTE Band 2 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3798.27	-34.07	12.60	12.93	-34.40	-13.00	-21.40	H
5697.28	-34.99	13.10	17.11	-39.00	-13.00	-26.00	H
7596.95	-32.97	11.50	22.20	-43.67	-13.00	-30.67	H
3798.27	-34.87	12.60	12.93	-35.20	-13.00	-22.20	V
5697.28	-34.43	13.10	17.11	-38.44	-13.00	-25.44	V
7596.95	-32.25	11.50	22.20	-42.95	-13.00	-29.95	V



LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3421.22	-34.21	12.90	12.56	-33.87	-13.00	-20.87	H
5131.65	-35.24	13.10	16.32	-38.46	-13.00	-25.46	H
6842.63	-33.34	12.33	21.13	-42.14	-13.00	-29.14	H
3421.22	-35.27	12.90	12.56	-34.93	-13.00	-21.93	V
5131.65	-34.19	13.10	16.32	-37.41	-13.00	-24.41	V
6842.63	-32.43	12.33	21.13	-41.23	-13.00	-28.23	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.78	-34.85	12.90	12.56	-34.51	-13.00	-21.51	H
5196.69	-34.36	13.10	16.32	-37.58	-13.00	-24.58	H
6930.02	-33.12	12.33	21.13	-41.92	-13.00	-28.92	H
3464.78	-35.30	12.90	12.56	-34.96	-13.00	-21.96	V
5196.69	-34.22	13.10	16.32	-37.44	-13.00	-24.44	V
6930.02	-32.54	12.33	21.13	-41.34	-13.00	-28.34	V
LTE Band 4 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3508.49	-33.55	12.90	12.56	-33.21	-13.00	-20.21	H
5262.57	-34.60	13.10	16.32	-37.82	-13.00	-24.82	H
7015.57	-32.60	12.33	21.13	-41.40	-13.00	-28.40	H
3508.49	-34.61	12.90	12.56	-34.27	-13.00	-21.27	V
5262.57	-34.23	13.10	16.32	-37.45	-13.00	-24.45	V
7015.57	-32.03	12.33	21.13	-40.83	-13.00	-27.83	V



LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3423.64	-34.27	12.90	12.56	-33.93	-13.00	-20.93	H
5135.80	-34.88	13.10	16.32	-38.10	-13.00	-25.10	H
6848.61	-33.24	12.33	21.13	-42.04	-13.00	-29.04	H
3423.64	-34.90	12.90	12.56	-34.56	-13.00	-21.56	V
5135.80	-35.16	13.10	16.32	-38.38	-13.00	-25.38	V
6848.61	-32.56	12.33	21.13	-41.36	-13.00	-28.36	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.66	-34.87	12.90	12.56	-34.53	-13.00	-21.53	H
5197.01	-34.22	13.10	16.32	-37.44	-13.00	-24.44	H
6930.02	-32.17	12.33	21.13	-40.97	-13.00	-27.97	H
3464.66	-34.66	12.90	12.56	-34.32	-13.00	-21.32	V
5197.01	-35.12	13.10	16.32	-38.34	-13.00	-25.34	V
6930.02	-31.86	12.33	21.13	-40.66	-13.00	-27.66	V
LTE Band 4 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3506.20	-33.49	12.90	12.56	-33.15	-13.00	-20.15	H
5261.90	-34.57	13.10	16.32	-37.79	-13.00	-24.79	H
7012.64	-32.91	12.33	21.13	-41.71	-13.00	-28.71	H
3506.20	-35.84	12.90	12.56	-35.50	-13.00	-22.50	V
5261.90	-34.77	13.10	16.32	-37.99	-13.00	-24.99	V
7012.64	-32.71	12.33	21.13	-41.51	-13.00	-28.51	V



LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3424.59	-33.44	12.90	12.56	-33.10	-13.00	-20.10	H
5137.01	-34.21	13.10	16.32	-37.43	-13.00	-24.43	H
6849.66	-33.06	12.33	21.13	-41.86	-13.00	-28.86	H
3424.59	-35.83	12.90	12.56	-35.49	-13.00	-22.49	V
5137.01	-35.17	13.10	16.32	-38.39	-13.00	-25.39	V
6849.66	-32.16	12.33	21.13	-40.96	-13.00	-27.96	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3464.60	-34.78	12.90	12.56	-34.44	-13.00	-21.44	H
5196.66	-34.81	13.10	16.32	-38.03	-13.00	-25.03	H
6930.02	-32.98	12.33	21.13	-41.78	-13.00	-28.78	H
3464.60	-34.72	12.90	12.56	-34.38	-13.00	-21.38	V
5196.66	-34.56	13.10	16.32	-37.78	-13.00	-24.78	V
6930.02	-32.73	12.33	21.13	-41.53	-13.00	-28.53	V
LTE Band 4 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea	Limit	Margin	Polarity
				(dBm)	(dBm)	(dBm)	
3505.09	-33.62	12.90	12.56	-33.28	-13.00	-20.28	H
5256.89	-35.33	13.10	16.32	-38.55	-13.00	-25.55	H
7009.99	-32.65	12.33	21.13	-41.45	-13.00	-28.45	H
3505.09	-35.82	12.90	12.56	-35.48	-13.00	-22.48	V
5256.89	-33.99	13.10	16.32	-37.21	-13.00	-24.21	V
7009.99	-31.75	12.33	21.13	-40.55	-13.00	-27.55	V



LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3429.80	-34.81	12.90	12.56	-34.47	-13.00	-21.47	H
5145.11	-34.47	13.10	16.32	-37.69	-13.00	-24.69	H
6860.29	-33.24	12.33	21.13	-42.04	-13.00	-29.04	H
3429.80	-35.78	12.90	12.56	-35.44	-13.00	-22.44	V
5145.11	-34.72	13.10	16.32	-37.94	-13.00	-24.94	V
6860.29	-32.75	12.33	21.13	-41.55	-13.00	-28.55	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.35	-33.86	12.90	12.56	-33.52	-13.00	-20.52	H
5196.81	-35.09	13.10	16.32	-38.31	-13.00	-25.31	H
6929.86	-32.26	12.33	21.13	-41.06	-13.00	-28.06	H
3464.35	-35.14	12.90	12.56	-34.80	-13.00	-21.80	V
5196.81	-34.95	13.10	16.32	-38.17	-13.00	-25.17	V
6929.86	-33.16	12.33	21.13	-41.96	-13.00	-28.96	V
LTE Band 4 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3500.39	-34.02	12.90	12.56	-33.68	-13.00	-20.68	H
5250.41	-34.01	13.10	16.32	-37.23	-13.00	-24.23	H
6999.73	-32.44	12.33	21.13	-41.24	-13.00	-28.24	H
3500.39	-35.85	12.90	12.56	-35.51	-13.00	-22.51	V
5250.41	-35.00	13.10	16.32	-38.22	-13.00	-25.22	V
6999.73	-32.62	12.33	21.13	-41.42	-13.00	-28.42	V



LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3435.02	-34.31	12.90	12.56	-33.97	-13.00	-20.97	H
5152.39	-34.02	13.10	16.32	-37.24	-13.00	-24.24	H
6870.34	-32.60	12.33	21.13	-41.40	-13.00	-28.40	H
3435.02	-35.41	12.90	12.56	-35.07	-13.00	-22.07	V
5152.39	-34.43	13.10	16.32	-37.65	-13.00	-24.65	V
6870.34	-32.97	12.33	21.13	-41.77	-13.00	-28.77	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3464.63	-33.49	12.90	12.56	-33.15	-13.00	-20.15	H
5196.46	-35.47	13.10	16.32	-38.69	-13.00	-25.69	H
6929.87	-33.46	12.33	21.13	-42.26	-13.00	-29.26	H
3464.63	-35.59	12.90	12.56	-35.25	-13.00	-22.25	V
5196.46	-33.76	13.10	16.32	-36.98	-13.00	-23.98	V
6929.87	-32.64	12.33	21.13	-41.44	-13.00	-28.44	V
LTE Band 4 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3495.13	-34.55	12.90	12.56	-34.21	-13.00	-21.21	H
5242.10	-34.26	13.10	16.32	-37.48	-13.00	-24.48	H
6989.90	-32.93	12.33	21.13	-41.73	-13.00	-28.73	H
3495.13	-34.70	12.90	12.56	-34.36	-13.00	-21.36	V
5242.10	-34.08	13.10	16.32	-37.30	-13.00	-24.30	V
6989.90	-32.81	12.33	21.13	-41.61	-13.00	-28.61	V



LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3440.34	-34.63	12.90	12.56	-34.29	-13.00	-21.29	H
5160.24	-34.46	13.10	16.32	-37.68	-13.00	-24.68	H
6880.79	-33.50	12.33	21.13	-42.30	-13.00	-29.30	H
3440.34	-35.90	12.90	12.56	-35.56	-13.00	-22.56	V
5160.24	-34.29	13.10	16.32	-37.51	-13.00	-24.51	V
6880.79	-32.81	12.33	21.13	-41.61	-13.00	-28.61	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3465.06	-34.75	12.90	12.56	-34.41	-13.00	-21.41	H
5196.46	-34.90	13.10	16.32	-38.12	-13.00	-25.12	H
6929.77	-32.85	12.33	21.13	-41.65	-13.00	-28.65	H
3465.06	-35.08	12.90	12.56	-34.74	-13.00	-21.74	V
5196.46	-34.84	13.10	16.32	-38.06	-13.00	-25.06	V
6929.77	-32.51	12.33	21.13	-41.31	-13.00	-28.31	V
LTE Band 4 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
3490.40	-33.88	12.90	12.56	-33.54	-13.00	-20.54	H
5234.91	-35.16	13.10	16.32	-38.38	-13.00	-25.38	H
6979.35	-32.40	12.33	21.13	-41.20	-13.00	-28.20	H
3490.40	-35.63	12.90	12.56	-35.29	-13.00	-22.29	V
5234.91	-33.75	13.10	16.32	-36.97	-13.00	-23.97	V
6979.35	-32.07	12.33	21.13	-40.87	-13.00	-27.87	V



LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1648.70	-34.91	9.56	9.72	-35.07	-13.00	-22.07	H
2473.68	-34.07	10.50	10.86	-34.43	-13.00	-21.43	H
3298.35	-33.04	12.78	11.57	-31.83	-13.00	-18.83	H
1648.70	-34.85	9.56	9.72	-35.01	-13.00	-22.01	V
2473.68	-34.30	10.50	10.86	-34.66	-13.00	-21.66	V
3298.35	-32.69	12.78	11.57	-31.48	-13.00	-18.48	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.53	-34.32	9.56	9.72	-34.48	-13.00	-21.48	H
2509.11	-34.99	10.50	10.86	-35.35	-13.00	-22.35	H
3345.79	-33.35	12.78	11.57	-32.14	-13.00	-19.14	H
1672.53	-35.13	9.56	9.72	-35.29	-13.00	-22.29	V
2509.11	-35.18	10.50	10.86	-35.54	-13.00	-22.54	V
3345.79	-32.45	12.78	11.57	-31.24	-13.00	-18.24	V
LTE Band 5 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1696.20	-33.95	9.56	9.72	-34.11	-13.00	-21.11	H
2544.66	-35.36	10.50	10.86	-35.72	-13.00	-22.72	H
3393.00	-32.49	12.78	11.57	-31.28	-13.00	-18.28	H
1696.20	-34.86	9.56	9.72	-35.02	-13.00	-22.02	V
2544.66	-34.88	10.50	10.86	-35.24	-13.00	-22.24	V
3393.00	-31.90	12.78	11.57	-30.69	-13.00	-17.69	V



LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1650.49	-34.53	9.56	9.72	-34.69	-13.00	-21.69	H
2475.78	-34.94	10.50	10.86	-35.30	-13.00	-22.30	H
3301.23	-32.17	12.78	11.57	-30.96	-13.00	-17.96	H
1650.49	-35.23	9.56	9.72	-35.39	-13.00	-22.39	V
2475.78	-34.99	10.50	10.86	-35.35	-13.00	-22.35	V
3301.23	-32.94	12.78	11.57	-31.73	-13.00	-18.73	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.34	-34.15	9.56	9.72	-34.31	-13.00	-21.31	H
2509.15	-34.76	10.50	10.86	-35.12	-13.00	-22.12	H
3345.47	-32.78	12.78	11.57	-31.57	-13.00	-18.57	H
1672.34	-35.92	9.56	9.72	-36.08	-13.00	-23.08	V
2509.15	-34.84	10.50	10.86	-35.20	-13.00	-22.20	V
3345.47	-32.77	12.78	11.57	-31.56	-13.00	-18.56	V
LTE Band 5 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1694.30	-34.67	9.56	9.72	-34.83	-13.00	-21.83	H
2542.09	-34.28	10.50	10.86	-34.64	-13.00	-21.64	H
3389.43	-33.13	12.78	11.57	-31.92	-13.00	-18.92	H
1694.30	-35.63	9.56	9.72	-35.79	-13.00	-22.79	V
2542.09	-34.58	10.50	10.86	-34.94	-13.00	-21.94	V
3389.43	-33.03	12.78	11.57	-31.82	-13.00	-18.82	V



LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1652.25	-33.53	9.56	9.72	-33.69	-13.00	-20.69	H
2479.01	-34.71	10.50	10.86	-35.07	-13.00	-22.07	H
3305.36	-32.45	12.78	11.57	-31.24	-13.00	-18.24	H
1652.25	-34.62	9.56	9.72	-34.78	-13.00	-21.78	V
2479.01	-34.57	10.50	10.86	-34.93	-13.00	-21.93	V
3305.36	-31.83	12.78	11.57	-30.62	-13.00	-17.62	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.60	-34.93	9.56	9.72	-35.09	-13.00	-22.09	H
2508.92	-34.33	10.50	10.86	-34.69	-13.00	-21.69	H
3345.44	-33.59	12.78	11.57	-32.38	-13.00	-19.38	H
1672.60	-34.72	9.56	9.72	-34.88	-13.00	-21.88	V
2508.92	-34.71	10.50	10.86	-35.07	-13.00	-22.07	V
3345.44	-31.78	12.78	11.57	-30.57	-13.00	-17.57	V
LTE Band 5 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1692.52	-34.61	9.56	9.72	-34.77	-13.00	-21.77	H
2538.78	-34.00	10.50	10.86	-34.36	-13.00	-21.36	H
3385.89	-32.86	12.78	11.57	-31.65	-13.00	-18.65	H
1692.52	-35.66	9.56	9.72	-35.82	-13.00	-22.82	V
2538.78	-34.63	10.50	10.86	-34.99	-13.00	-21.99	V
3385.89	-32.29	12.78	11.57	-31.08	-13.00	-18.08	V



LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1657.84	-34.07	9.56	9.72	-34.23	-13.00	-21.23	H
2486.36	-34.25	10.50	10.86	-34.61	-13.00	-21.61	H
3315.41	-33.10	12.78	11.57	-31.89	-13.00	-18.89	H
1657.84	-35.45	9.56	9.72	-35.61	-13.00	-22.61	V
2486.36	-34.76	10.50	10.86	-35.12	-13.00	-22.12	V
3315.41	-32.16	12.78	11.57	-30.95	-13.00	-17.95	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1672.49	-34.27	9.56	9.72	-34.43	-13.00	-21.43	H
2508.91	-34.62	10.50	10.86	-34.98	-13.00	-21.98	H
3345.02	-33.17	12.78	11.57	-31.96	-13.00	-18.96	H
1672.49	-35.88	9.56	9.72	-36.04	-13.00	-23.04	V
2508.91	-33.82	10.50	10.86	-34.18	-13.00	-21.18	V
3345.02	-32.15	12.78	11.57	-30.94	-13.00	-17.94	V
LTE Band 5 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1687.72	-34.35	9.56	9.72	-34.51	-13.00	-21.51	H
2531.64	-35.23	10.50	10.86	-35.59	-13.00	-22.59	H
3375.76	-32.51	12.78	11.57	-31.30	-13.00	-18.30	H
1687.72	-35.17	9.56	9.72	-35.33	-13.00	-22.33	V
2531.64	-34.30	10.50	10.86	-34.66	-13.00	-21.66	V
3375.76	-32.60	12.78	11.57	-31.39	-13.00	-18.39	V



LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5005.39	-34.92	12.66	15.86	-38.12	-25.00	-13.12	H
7507.91	-35.45	11.46	19.28	-43.27	-25.00	-18.27	H
10010.27	-32.63	12.79	23.19	-43.03	-25.00	-18.03	H
5005.39	-35.54	12.66	15.86	-38.74	-25.00	-13.74	V
7507.91	-34.89	11.46	19.28	-42.71	-25.00	-17.71	V
10010.27	-32.84	12.79	23.19	-43.24	-25.00	-18.24	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5070.00	-33.54	12.72	15.86	-36.68	-25.00	-11.68	H
7605.01	-34.55	11.46	19.28	-42.37	-25.00	-17.37	H
10139.73	-33.22	12.09	23.19	-44.32	-25.00	-19.32	H
5070.00	-35.67	12.72	15.86	-38.81	-25.00	-13.81	V
7605.01	-33.76	11.46	19.28	-41.58	-25.00	-16.58	V
10139.73	-31.74	12.09	23.19	-42.84	-25.00	-17.84	V
LTE Band 7 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5133.76	-33.48	12.76	15.86	-36.58	-25.00	-11.58	H
7701.49	-35.29	11.45	19.28	-43.12	-25.00	-18.12	H
10268.04	-32.15	12.28	23.19	-43.06	-25.00	-18.06	H
5133.76	-35.36	12.76	15.86	-38.46	-25.00	-13.46	V
7701.49	-35.06	11.45	19.28	-42.89	-25.00	-17.89	V
10268.04	-32.42	12.28	23.19	-43.33	-25.00	-18.33	V



LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5010.00	-34.52	12.66	15.86	-37.72	-25.00	-12.72	H
7515.38	-34.82	11.46	19.28	-42.64	-25.00	-17.64	H
10020.42	-33.54	12.79	23.19	-43.94	-25.00	-18.94	H
5010.00	-34.68	12.66	15.86	-37.88	-25.00	-12.88	V
7515.38	-34.29	11.46	19.28	-42.11	-25.00	-17.11	V
10020.42	-32.59	12.79	23.19	-42.99	-25.00	-17.99	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.86	-34.53	12.72	15.86	-37.67	-25.00	-12.67	H
7604.75	-34.70	11.46	19.28	-42.52	-25.00	-17.52	H
10139.86	-32.69	12.09	23.19	-43.79	-25.00	-18.79	H
5069.86	-34.52	12.72	15.86	-37.66	-25.00	-12.66	V
7604.75	-33.78	11.46	19.28	-41.60	-25.00	-16.60	V
10139.86	-32.84	12.09	23.19	-43.94	-25.00	-18.94	V
LTE Band 7 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5129.15	-33.84	12.76	15.86	-36.94	-25.00	-11.94	H
7693.63	-35.34	11.45	19.28	-43.17	-25.00	-18.17	H
10258.88	-32.27	12.28	23.19	-43.18	-25.00	-18.18	H
5129.15	-35.89	12.76	15.86	-38.99	-25.00	-13.99	V
7693.63	-34.78	11.45	19.28	-42.61	-25.00	-17.61	V
10258.88	-32.82	12.28	23.19	-43.73	-25.00	-18.73	V



LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5015.41	-34.33	12.66	15.86	-37.53	-25.00	-12.53	H
7523.91	-34.33	11.46	19.28	-42.15	-25.00	-17.15	H
10031.74	-32.21	12.79	23.19	-42.61	-25.00	-17.61	H
5015.41	-34.63	12.66	15.86	-37.83	-25.00	-12.83	V
7523.91	-34.73	11.46	19.28	-42.55	-25.00	-17.55	V
10031.74	-32.60	12.79	23.19	-43.00	-25.00	-18.00	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5070.01	-33.90	12.72	15.86	-37.04	-25.00	-12.04	H
7604.79	-35.23	11.46	19.28	-43.05	-25.00	-18.05	H
10140.04	-33.55	12.09	23.19	-44.65	-25.00	-19.65	H
5070.01	-34.53	12.72	15.86	-37.67	-25.00	-12.67	V
7604.79	-34.18	11.46	19.28	-42.00	-25.00	-17.00	V
10140.04	-31.72	12.09	23.19	-42.82	-25.00	-17.82	V
LTE Band 7 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5123.40	-33.96	12.76	15.86	-37.06	-25.00	-12.06	H
7523.85	-35.13	11.45	19.28	-42.96	-25.00	-17.96	H
10032.12	-33.07	12.28	23.19	-43.98	-25.00	-18.98	H
5123.40	-35.15	12.76	15.86	-38.25	-25.00	-13.25	V
7523.85	-34.38	11.45	19.28	-42.21	-25.00	-17.21	V
10032.12	-32.28	12.28	23.19	-43.19	-25.00	-18.19	V



LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5020.89	-33.59	12.66	15.86	-36.79	-25.00	-11.79	H
7531.21	-34.00	11.46	19.28	-41.82	-25.00	-16.82	H
10258.73	-33.49	12.79	23.19	-43.89	-25.00	-18.89	H
5020.89	-35.34	12.66	15.86	-38.54	-25.00	-13.54	V
7531.21	-34.51	11.46	19.28	-42.33	-25.00	-17.33	V
10258.73	-33.07	12.79	23.19	-43.47	-25.00	-18.47	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5069.64	-33.72	12.72	15.86	-36.86	-25.00	-11.86	H
7605.02	-34.03	11.46	19.28	-41.85	-25.00	-16.85	H
10139.81	-33.44	12.09	23.19	-44.54	-25.00	-19.54	H
5069.64	-35.33	12.72	15.86	-38.47	-25.00	-13.47	V
7605.02	-34.38	11.46	19.28	-42.20	-25.00	-17.20	V
10139.81	-32.83	12.09	23.19	-43.93	-25.00	-18.93	V
LTE Band 7 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5118.91	-33.55	12.76	15.86	-36.65	-25.00	-11.65	H
7678.21	-35.48	11.45	19.28	-43.31	-25.00	-18.31	H
10237.75	-32.79	12.28	23.19	-43.70	-25.00	-18.70	H
5118.91	-34.81	12.76	15.86	-37.91	-25.00	-12.91	V
7678.21	-35.09	11.45	19.28	-42.92	-25.00	-17.92	V
10237.75	-32.97	12.28	23.19	-43.88	-25.00	-18.88	V



LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1399.35	-34.37	8.17	9.34	-35.54	-13.00	-22.54	H
2099.00	-34.53	9.53	10.42	-35.42	-13.00	-22.42	H
2798.77	-32.37	11.27	11.12	-32.22	-13.00	-19.22	H
1399.35	-35.96	8.17	9.34	-37.13	-13.00	-24.13	V
2099.00	-34.35	9.53	10.42	-35.24	-13.00	-22.24	V
2798.77	-33.06	11.27	11.12	-32.91	-13.00	-19.91	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.69	-33.89	8.17	9.34	-35.06	-13.00	-22.06	H
2122.42	-35.17	9.53	10.42	-36.06	-13.00	-23.06	H
2829.68	-33.22	11.27	11.12	-33.07	-13.00	-20.07	H
1414.69	-35.65	8.17	9.34	-36.82	-13.00	-23.82	V
2122.42	-35.00	9.53	10.42	-35.89	-13.00	-22.89	V
2829.68	-32.18	11.27	11.12	-32.03	-13.00	-19.03	V
LTE Band 12 / 1.4MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1430.41	-33.89	8.17	9.34	-35.06	-13.00	-22.06	H
2145.51	-35.46	9.53	10.42	-36.35	-13.00	-23.35	H
2861.11	-32.71	11.27	11.12	-32.56	-13.00	-19.56	H
1430.41	-35.33	8.17	9.34	-36.50	-13.00	-23.50	V
2145.51	-35.11	9.53	10.42	-36.00	-13.00	-23.00	V
2861.11	-31.79	11.27	11.12	-31.64	-13.00	-18.64	V



LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1400.80	-34.66	8.17	9.34	-35.83	-13.00	-22.83	H
2101.21	-35.33	9.53	10.42	-36.22	-13.00	-23.22	H
2801.63	-32.39	11.27	11.12	-32.24	-13.00	-19.24	H
1400.80	-35.09	8.17	9.34	-36.26	-13.00	-23.26	V
2101.21	-34.08	9.53	10.42	-34.97	-13.00	-21.97	V
2801.63	-31.97	11.27	11.12	-31.82	-13.00	-18.82	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.63	-34.63	8.17	9.34	-35.80	-13.00	-22.80	H
2122.35	-35.05	9.53	10.42	-35.94	-13.00	-22.94	H
2829.71	-33.28	11.27	11.12	-33.13	-13.00	-20.13	H
1414.63	-34.92	8.17	9.34	-36.09	-13.00	-23.09	V
2122.35	-34.66	9.53	10.42	-35.55	-13.00	-22.55	V
2829.71	-32.18	11.27	11.12	-32.03	-13.00	-19.03	V
LTE Band 12 / 3MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1428.86	-34.65	8.17	9.34	-35.82	-13.00	-22.82	H
2143.34	-35.00	9.53	10.42	-35.89	-13.00	-22.89	H
2857.52	-33.29	11.27	11.12	-33.14	-13.00	-20.14	H
1428.86	-35.32	8.17	9.34	-36.49	-13.00	-23.49	V
2143.34	-34.41	9.53	10.42	-35.30	-13.00	-22.30	V
2857.52	-32.52	11.27	11.12	-32.37	-13.00	-19.37	V



LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1402.60	-33.53	8.17	9.34	-34.70	-13.00	-21.70	H
2104.34	-34.07	9.53	10.42	-34.96	-13.00	-21.96	H
2805.63	-33.32	11.27	11.12	-33.17	-13.00	-20.17	H
1402.60	-35.87	8.17	9.34	-37.04	-13.00	-24.04	V
2104.34	-34.58	9.53	10.42	-35.47	-13.00	-22.47	V
2805.63	-32.20	11.27	11.12	-32.05	-13.00	-19.05	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.77	-33.58	8.17	9.34	-34.75	-13.00	-21.75	H
2122.27	-34.50	9.53	10.42	-35.39	-13.00	-22.39	H
2829.74	-32.63	11.27	11.12	-32.48	-13.00	-19.48	H
1414.77	-34.81	8.17	9.34	-35.98	-13.00	-22.98	V
2122.27	-34.05	9.53	10.42	-34.94	-13.00	-21.94	V
2829.74	-32.93	11.27	11.12	-32.78	-13.00	-19.78	V
LTE Band 12 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1426.90	-33.80	8.17	9.34	-34.97	-13.00	-21.97	H
2140.21	-35.06	9.53	10.42	-35.95	-13.00	-22.95	H
2853.68	-33.13	11.27	11.12	-32.98	-13.00	-19.98	H
1426.90	-35.97	8.17	9.34	-37.14	-13.00	-24.14	V
2140.21	-33.88	9.53	10.42	-34.77	-13.00	-21.77	V
2853.68	-32.83	11.27	11.12	-32.68	-13.00	-19.68	V



LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1407.87	-34.15	8.17	9.34	-35.32	-13.00	-22.32	H
2111.65	-34.94	9.53	10.42	-35.83	-13.00	-22.83	H
2815.92	-33.46	11.27	11.12	-33.31	-13.00	-20.31	H
1407.87	-35.70	8.17	9.34	-36.87	-13.00	-23.87	V
2111.65	-35.13	9.53	10.42	-36.02	-13.00	-23.02	V
2815.92	-33.09	11.27	11.12	-32.94	-13.00	-19.94	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1414.56	-34.36	8.17	9.34	-35.53	-13.00	-22.53	H
2122.01	-34.26	9.53	10.42	-35.15	-13.00	-22.15	H
2829.76	-32.46	11.27	11.12	-32.31	-13.00	-19.31	H
1414.56	-35.19	8.17	9.34	-36.36	-13.00	-23.36	V
2122.01	-34.39	9.53	10.42	-35.28	-13.00	-22.28	V
2829.76	-32.83	11.27	11.12	-32.68	-13.00	-19.68	V
LTE Band 12 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1421.56	-33.58	8.17	9.34	-34.75	-13.00	-21.75	H
2132.79	-34.11	9.53	10.42	-35.00	-13.00	-22.00	H
2843.89	-33.57	11.27	11.12	-33.42	-13.00	-20.42	H
1421.56	-34.97	8.17	9.34	-36.14	-13.00	-23.14	V
2132.79	-34.39	9.53	10.42	-35.28	-13.00	-22.28	V
2843.89	-32.18	11.27	11.12	-32.03	-13.00	-19.03	V



LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1559.31	-47.52	9.56	9.72	-47.68	-40.00	-7.68	H
2338.28	-46.48	10.50	10.86	-46.84	-13.00	-33.84	H
3118.27	-45.68	12.78	11.57	-44.47	-13.00	-31.47	H
1559.31	-48.43	9.56	9.72	-48.59	-40.00	-8.59	V
2338.28	-46.81	10.50	10.86	-47.17	-13.00	-34.17	V
3118.27	-45.56	12.78	11.57	-44.35	-13.00	-31.35	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1564.16	-47.51	9.56	9.72	-47.67	-40.00	-7.67	H
2345.81	-46.38	10.50	10.86	-46.74	-13.00	-33.74	H
3127.80	-45.52	12.78	11.57	-44.31	-13.00	-31.31	H
1564.16	-48.61	9.56	9.72	-48.77	-40.00	-8.77	V
2345.81	-47.13	10.50	10.86	-47.49	-13.00	-34.49	V
3127.80	-45.42	12.78	11.57	-44.21	-13.00	-31.21	V
LTE Band 13 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1568.87	-48.40	9.56	9.72	-48.56	-40.00	-8.56	H
2353.05	-46.26	10.50	10.86	-46.62	-13.00	-33.62	H
3138.14	-46.59	12.78	11.57	-45.38	-13.00	-32.38	H
1568.87	-48.06	9.56	9.72	-48.22	-40.00	-8.22	V
2353.05	-47.17	10.50	10.86	-47.53	-13.00	-34.53	V
3138.14	-46.30	12.78	11.57	-45.09	-13.00	-32.09	V

LTE Band 13 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
1563.80	-48.92	9.56	9.72	-49.08	-40.00	-9.08	H
2345.93	-46.90	10.50	10.86	-47.26	-13.00	-34.26	H
3127.77	-46.50	12.78	11.57	-45.29	-13.00	-32.29	H
1563.80	-48.64	9.56	9.72	-48.80	-40.00	-8.80	V
2345.93	-46.80	10.50	10.86	-47.16	-13.00	-34.16	V
3127.77	-45.37	12.78	11.57	-44.16	-13.00	-31.16	V



LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
4996.88	-34.14	12.66	15.86	-37.34	-25.00	-12.34	H
7495.73	-35.08	11.46	19.28	-42.90	-25.00	-17.90	H
9994.06	-32.97	12.79	23.19	-43.37	-25.00	-18.37	H
4996.84	-34.72	12.66	15.86	-37.92	-25.00	-12.92	V
7495.87	-34.28	11.46	19.28	-42.10	-25.00	-17.10	V
9994.53	-32.71	12.79	23.19	-43.11	-25.00	-18.11	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5186.06	-34.26	12.72	15.86	-37.40	-25.00	-12.40	H
7779.32	-34.38	11.46	19.28	-42.20	-25.00	-17.20	H
10371.91	-33.24	12.09	23.19	-44.34	-25.00	-19.34	H
5186.06	-35.11	12.72	15.86	-38.25	-25.00	-13.25	V
7779.32	-34.48	11.46	19.28	-42.30	-25.00	-17.30	V
10371.91	-32.90	12.09	23.19	-44.00	-25.00	-19.00	V
LTE Band 41 / 5MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5375.18	-34.33	12.76	15.86	-37.43	-25.00	-12.43	H
8062.28	-34.33	11.45	19.28	-42.16	-25.00	-17.16	H
10750.26	-32.97	12.28	23.19	-43.88	-25.00	-18.88	H
5375.18	-34.54	12.76	15.86	-37.64	-25.00	-12.64	V
8062.28	-34.38	11.45	19.28	-42.21	-25.00	-17.21	V
10750.26	-33.12	12.28	23.19	-44.03	-25.00	-19.03	V



LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5002.51	-34.29	12.66	15.86	-37.49	-25.00	-12.49	H
7503.12	-34.11	11.46	19.28	-41.93	-25.00	-16.93	H
10004.25	-33.60	12.79	23.19	-44.00	-25.00	-19.00	H
5002.51	-35.02	12.66	15.86	-38.22	-25.00	-13.22	V
7503.12	-34.92	11.46	19.28	-42.74	-25.00	-17.74	V
10004.25	-31.75	12.79	23.19	-42.15	-25.00	-17.15	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5186.93	-33.57	12.72	15.86	-36.71	-25.00	-11.71	H
7779.81	-35.23	11.46	19.28	-43.05	-25.00	-18.05	H
10371.26	-33.63	12.09	23.19	-44.73	-25.00	-19.73	H
5186.93	-35.84	12.72	15.86	-38.98	-25.00	-13.98	V
7779.81	-34.05	11.46	19.28	-41.87	-25.00	-16.87	V
10371.26	-31.73	12.09	23.19	-42.83	-25.00	-17.83	V
LTE Band 41 / 10MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5370.20	-34.58	12.76	15.86	-37.68	-25.00	-12.68	H
8055.75	-34.62	11.45	19.28	-42.45	-25.00	-17.45	H
10739.80	-33.28	12.28	23.19	-44.19	-25.00	-19.19	H
5370.20	-35.62	12.76	15.86	-38.72	-25.00	-13.72	V
8055.75	-34.66	11.45	19.28	-42.49	-25.00	-17.49	V
10739.80	-32.21	12.28	23.19	-43.12	-25.00	-18.12	V



LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5007.22	-34.01	12.66	15.86	-37.21	-25.00	-12.21	H
7510.53	-34.13	11.46	19.28	-41.95	-25.00	-16.95	H
10014.68	-33.30	12.79	23.19	-43.70	-25.00	-18.70	H
5007.22	-35.36	12.66	15.86	-38.56	-25.00	-13.56	V
7510.53	-34.05	11.46	19.28	-41.87	-25.00	-16.87	V
10014.68	-31.74	12.79	23.19	-42.14	-25.00	-17.14	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5185.65	-33.84	12.72	15.86	-36.98	-25.00	-11.98	H
7779.06	-34.00	11.46	19.28	-41.82	-25.00	-16.82	H
10372.37	-32.99	12.09	23.19	-44.09	-25.00	-19.09	H
5185.65	-35.29	12.72	15.86	-38.43	-25.00	-13.43	V
7779.06	-34.75	11.46	19.28	-42.57	-25.00	-17.57	V
10372.37	-32.72	12.09	23.19	-43.82	-25.00	-18.82	V
LTE Band 41 / 15MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5365.38	-33.50	12.76	15.86	-36.60	-25.00	-11.60	H
8047.13	-35.28	11.45	19.28	-43.11	-25.00	-18.11	H
10730.10	-32.16	12.28	23.19	-43.07	-25.00	-18.07	H
5365.38	-35.44	12.76	15.86	-38.54	-25.00	-13.54	V
8047.13	-34.93	11.45	19.28	-42.76	-25.00	-17.76	V
10730.10	-32.36	12.28	23.19	-43.27	-25.00	-18.27	V



LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Lowest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5012.04	-33.81	12.66	15.86	-37.01	-25.00	-12.01	H
7518.09	-34.48	11.46	19.28	-42.30	-25.00	-17.30	H
10024.04	-33.03	12.79	23.19	-43.43	-25.00	-18.43	H
5012.04	-35.10	12.66	15.86	-38.30	-25.00	-13.30	V
7518.09	-34.60	11.46	19.28	-42.42	-25.00	-17.42	V
10024.04	-32.70	12.79	23.19	-43.10	-25.00	-18.10	V
LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Middle							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5186.25	-33.66	12.72	15.86	-36.80	-25.00	-11.80	H
7779.28	-34.54	11.46	19.28	-42.36	-25.00	-17.36	H
10372.04	-32.22	12.09	23.19	-43.32	-25.00	-18.32	H
5186.25	-35.94	12.72	15.86	-39.08	-25.00	-14.08	V
7779.28	-34.66	11.46	19.28	-42.48	-25.00	-17.48	V
10372.04	-32.70	12.09	23.19	-43.80	-25.00	-18.80	V
LTE Band 41 / 20MHz / QPSK / RB Size 1 Offset 0/ The Worst Test Results for Highest							
Frequency(MHz)	S G.Lev (dBm)	Ant(dBi)	Loss	PMea (dBm)	Limit (dBm)	Margin (dBm)	Polarity
5359.74	-34.49	12.76	15.86	-37.59	-25.00	-12.59	H
8040.43	-35.42	11.45	19.28	-43.25	-25.00	-18.25	H
10720.21	-32.34	12.28	23.19	-43.25	-25.00	-18.25	H
5359.74	-35.33	12.76	15.86	-38.43	-25.00	-13.43	V
8040.43	-33.99	11.45	19.28	-41.82	-25.00	-16.82	V
10720.21	-31.91	12.28	23.19	-42.82	-25.00	-17.82	V

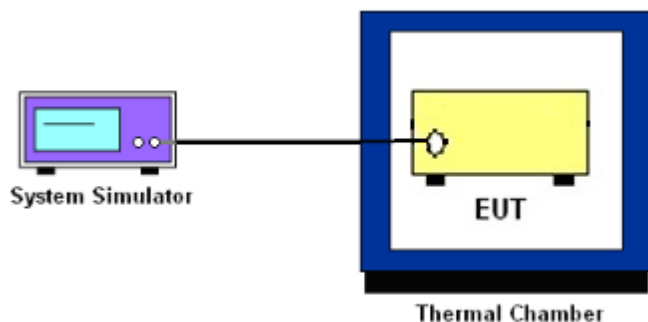
10. FREQUENCY STABILITY

10.1 DESCRIPTION OF FREQUENCY STABILITY MEASUREMENT

10.1.1 MEASUREMENT METHOD

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

10.1.2 TEST SETUP



10.1.3 TEST PROCEDURES FOR TEMPERATURE VARIATION

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

10.1.4 TEST PROCEDURES FOR VOLTAGE VARIATION

1. The testing follows FCC KDB 971168 D01v01r03 Section 9.
2. The EUT was placed in a temperature chamber at $25 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
3. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
4. The variation in frequency was measured for the worst case.



10.1.5 TEST RESULTS

LTE Band 2 (QPSK) / 1880MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	19.35	0.010	2.5ppm	PASS
40		14.92	0.008		
30		23.19	0.012		
20		13.85	0.007		
10		36.31	0.019		
0		17.68	0.009		
-10		32.20	0.017		
-20		23.68	0.013		
-30		23.68	0.013		
20	Maximum Voltage	31.10	0.017		
20	BEP	23.90	0.013		

LTE Band 2 (QPSK) / 1880MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	30.68	0.016	2.5ppm	PASS
40		18.68	0.010		
30		15.34	0.008		
20		18.73	0.010		
10		17.21	0.009		
0		16.58	0.009		
-10		27.81	0.015		
-20		31.08	0.017		
-30		13.24	0.007		
20	Maximum Voltage	18.74	0.010		
20	BEP	16.38	0.009		



LTE Band 4 (QPSK) / 1733MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	34.30	0.020	2.5ppm	PASS
40		18.21	0.011		
30		27.18	0.016		
20		19.48	0.011		
10		36.00	0.021		
0		14.09	0.008		
-10		32.39	0.019		
-20		31.52	0.018		
-30		25.33	0.015		
20	Maximum Voltage	27.14	0.016		
20	BEP	33.05	0.019		

LTE Band 4 (QPSK) / 1733MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.35	0.008	2.5ppm	PASS
40		32.00	0.018		
30		30.36	0.018		
20		14.34	0.008		
10		23.76	0.014		
0		18.72	0.011		
-10		23.74	0.014		
-20		19.56	0.011		
-30		25.69	0.015		
20	Maximum Voltage	27.35	0.016		
20	BEP	20.80	0.012		



LTE Band 5 (QPSK) / 836.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.30	0.038	2.5ppm	PASS
40		19.64	0.028		
30		35.68	0.050		
20		35.87	0.051		
10		14.85	0.021		
0		13.69	0.019		
-10		29.04	0.004		
-20		20.57	0.029		
-30		35.45	0.050		
20	Maximum Voltage	13.02	0.018		
20	BEP	13.32	0.019		

LTE Band 5 (QPSK) / 836.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	14.06	0.020	2.5ppm	PASS
40		19.12	0.027		
30		35.27	0.050		
20		34.48	0.049		
10		30.41	0.043		
0		35.84	0.050		
-10		26.93	0.004		
-20		18.31	0.026		
-30		22.36	0.031		
20	Maximum Voltage	20.34	0.029		
20	BEP	30.70	0.043		



LTE Band 7 (QPSK) / 2535MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.24	0.009	2.5ppm	PASS
40		14.34	0.006		
30		18.94	0.007		
20		14.83	0.006		
10		33.02	0.013		
0		15.65	0.006		
-10		13.97	0.006		
-20		14.07	0.006		
-30		31.00	0.012		
20	Maximum Voltage	20.18	0.008		
20	BEP	16.93	0.007		

LTE Band 7 (QPSK) / 2535MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	32.92	0.013	2.5ppm	PASS
40		30.30	0.012		
30		35.63	0.014		
20		27.17	0.011		
10		24.81	0.010		
0		32.84	0.013		
-10		34.05	0.013		
-20		30.78	0.012		
-30		19.77	0.008		
20	Maximum Voltage	17.87	0.007		
20	BEP	25.64	0.010		



LTE Band 12 (QPSK) / 707.5MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	12.83	0.018	2.5ppm	PASS
40		17.51	0.025		
30		34.61	0.049		
20		13.33	0.019		
10		34.34	0.048		
0		15.42	0.022		
-10		13.22	0.002		
-20		28.17	0.040		
-30		33.08	0.047		
20	Maximum Voltage	21.54	0.030		
20	BEP	12.68	0.018		

LTE Band 12 (QPSK) / 707.5MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	26.93	0.038	2.5ppm	PASS
40		23.16	0.033		
30		35.80	0.050		
20		32.54	0.046		
10		13.05	0.018		
0		11.80	0.017		
-10		11.93	0.002		
-20		36.08	0.051		
-30		33.72	0.047		
20	Maximum Voltage	24.92	0.035		
20	BEP	29.98	0.042		



LTE Band 13 (QPSK) / 782MHz / BW5M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	22.49	0.032	2.5ppm	PASS
40		28.18	0.040		
30		30.40	0.043		
20		28.59	0.040		
10		35.62	0.050		
0		26.21	0.037		
-10		27.58	0.004		
-20		30.38	0.043		
-30		15.33	0.022		
20	Maximum Voltage	14.61	0.021		
20	BEP	13.45	0.019		

LTE Band 13 (QPSK) / 782MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	23.38	0.033	2.5ppm	PASS
40		35.76	0.050		
30		34.94	0.049		
20		27.85	0.039		
10		27.61	0.039		
0		20.84	0.029		
-10		20.68	0.003		
-20		25.83	0.036		
-30		28.71	0.040		
20	Maximum Voltage	16.47	0.023		
20	BEP	26.24	0.037		



LTE Band 41 (QPSK) / 2593MHz / BW10M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	17.58	0.007	2.5ppm	PASS
40		28.85	0.011		
30		16.04	0.006		
20		15.97	0.006		
10		22.72	0.009		
0		26.40	0.010		
-10		27.55	0.011		
-20		15.04	0.006		
-30		28.00	0.011		
20	Maximum Voltage	35.21	0.014		
20	BEP	12.75	0.005		

LTE Band 41 (QPSK) / 2593MHz / BW20M					
Temperature (°C)	Voltage	Freq. Dev.	Freq. Dev.	Limit	Result
	(Volt)	(Hz)	(ppm)		
50	Normal Voltage	27.29	0.011	2.5ppm	PASS
40		12.17	0.005		
30		13.56	0.005		
20		16.04	0.006		
10		28.47	0.011		
0		22.05	0.009		
-10		21.01	0.008		
-20		33.22	0.013		
-30		33.77	0.013		
20	Maximum Voltage	22.07	0.009		
20	BEP	13.79	0.005		



APPENDIX-PHOTOS OF TEST SETUP

Note: See test photos in setup photo document for the actual connections between Product and support equipment.

※※※※※END OF THE REPORT※※※※※

