

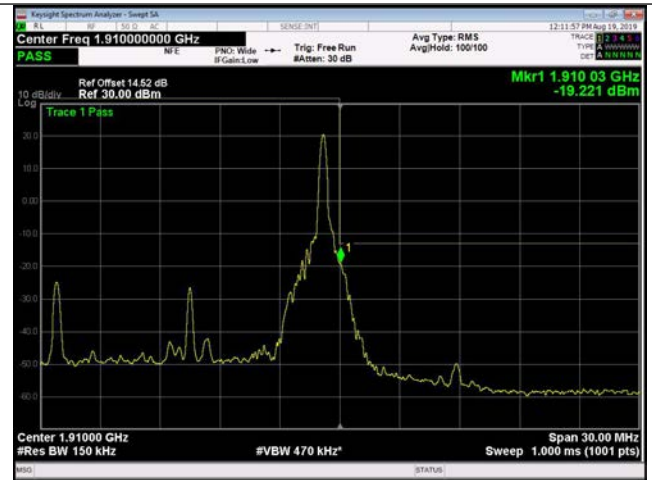


LTE Band 2

15MHz / Low Channel / 1RB



15MHz / High Channel / 1 RB



15MHz / Low Channel / Full RB



15MHz / High Channel / Full RB



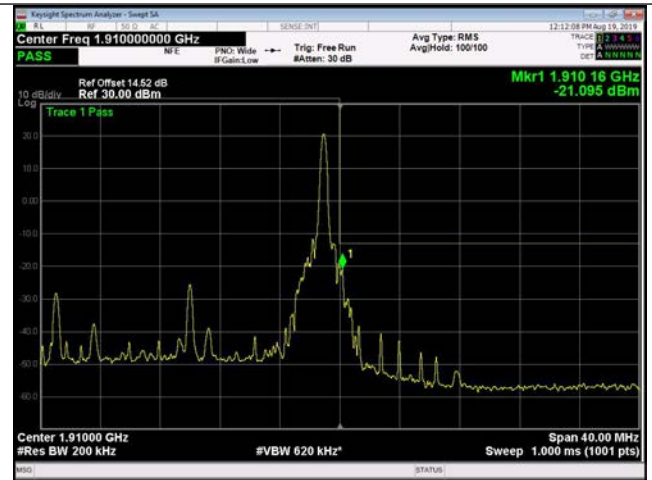


LTE Band 2

20MHz / Low Channel / 1RB



20MHz / High Channel / 1 RB



20MHz / Low Channel / Full RB



20MHz / High Channel / Full RB



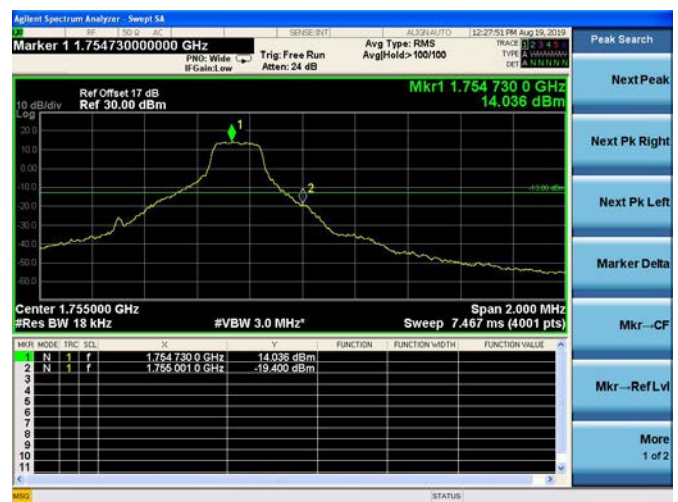


LTE Band 4

1.4MHz /Low Channel / 1RB



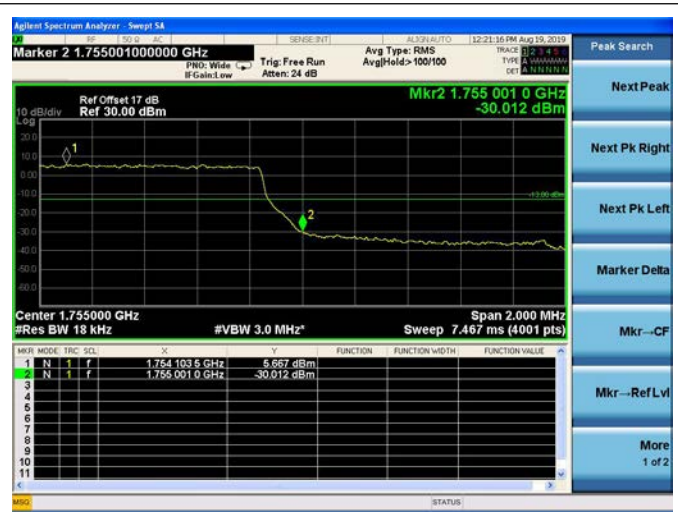
1.4MHz / High Channel / 1 RB



1.4MHz / Low Channel / Full RB



1.4MHz / High Channel / Full RB





LTE Band 4

3MHz /Low Channel / 1RB



3MHz / High Channel / 1 RB



3MHz / Low Channel / Full RB



3MHz / High Channel / Full RB





LTE Band 4

5MHz /Low Channel / 1RB



5MHz / High Channel / 1 RB



5MHz / Low Channel / Full RB



5MHz / High Channel / Full RB





LTE Band 4

10MHz / Low Channel / 1RB



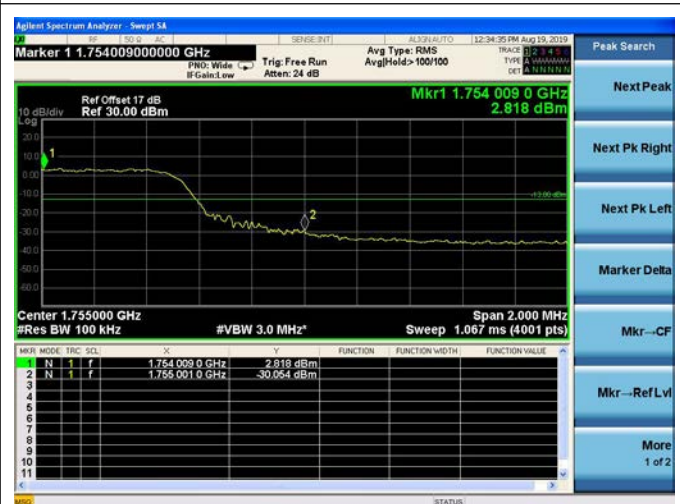
10MHz / High Channel / 1 RB



10MHz / Low Channel / FULL RB



10MHz / High Channel / FULL RB





LTE Band 4

15MHz / Low Channel / 1RB



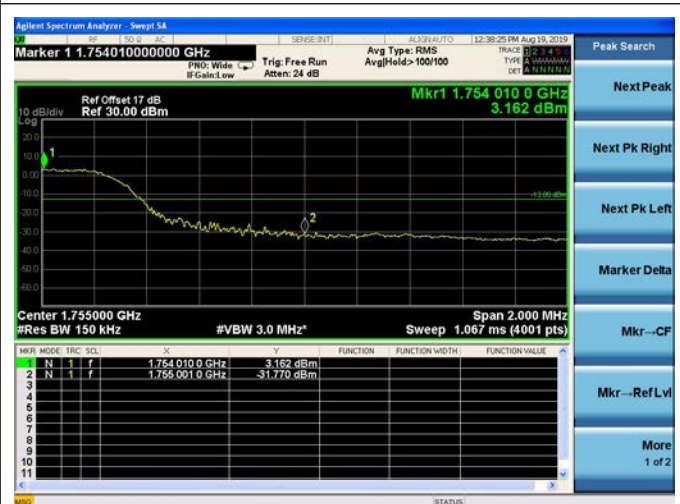
15MHz / High Channel / 1 RB



15MHz / Low Channel / Full RB



15MHz / High Channel / Full RB





LTE Band 4

20MHz / Low Channel / 1RB



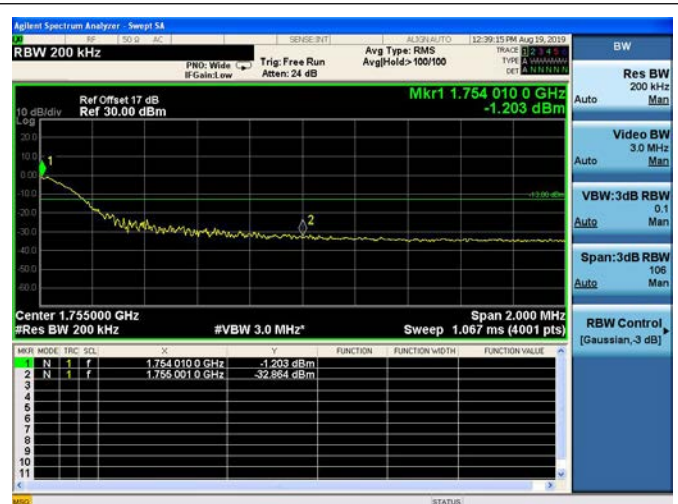
20MHz / High Channel / 1 RB



20MHz / Low Channel / Full RB



20MHz / High Channel / Full RB





LTE Band 5

1.4MHz / Low Channel / 1RB



1.4MHz / High Channel / 1 RB



1.4MHz / Low Channel / Full RB



1.4MHz / High Channel / Full RB





LTE Band 5

3MHz / Low Channel / 1RB



3MHz / High Channel / 1 RB



3MHz / Low Channel / Full RB



3MHz / High Channel / Full RB





LTE Band 5

5MHz /Low Channel / 1RB



5MHz / High Channel / 1 RB



5MHz /Low Channel / Full RB



5MHz / High Channel / Full RB





LTE Band 5

10MHz / Low Channel / 1RB



10MHz / High Channel / 1 RB



10MHz / Low Channel / Full RB



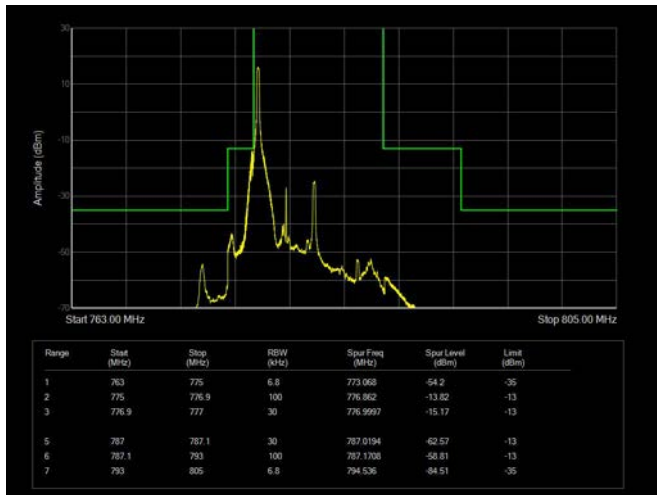
10MHz / High Channel / Full RB



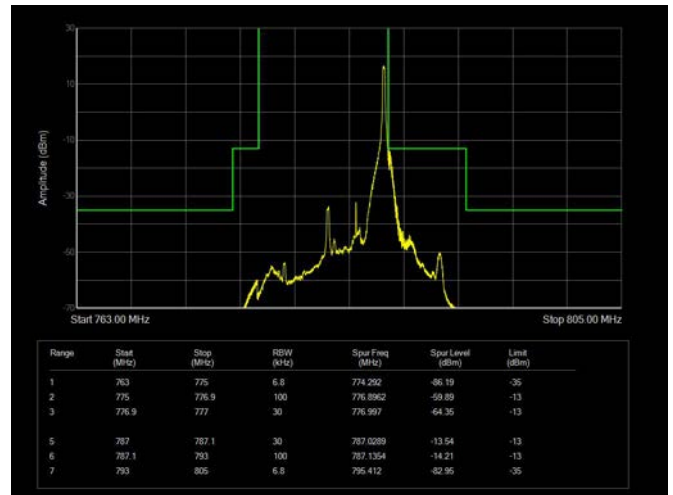


LTE Band 13

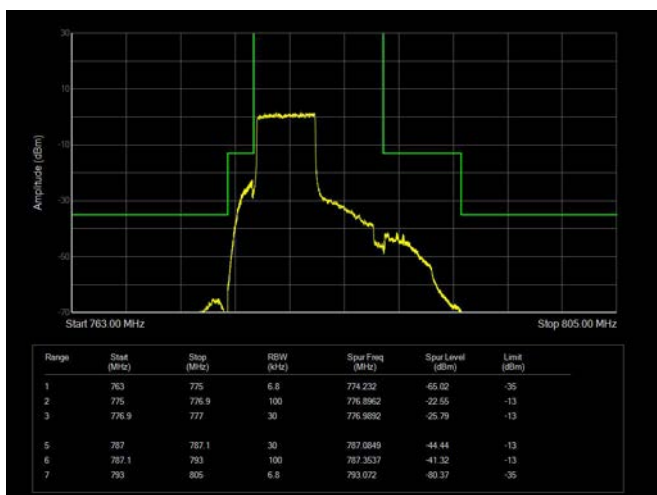
5MHz / Low Channel / 1RB



5MHz / High Channel / 1 RB



5MHz / Low Channel / Full RB



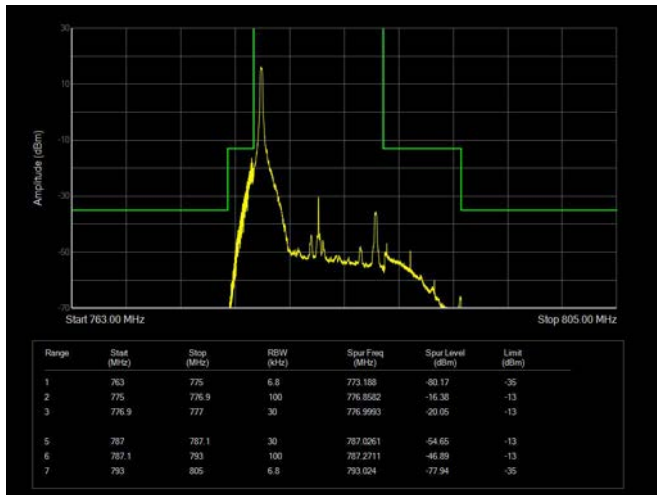
5MHz / High Channel / Full RB



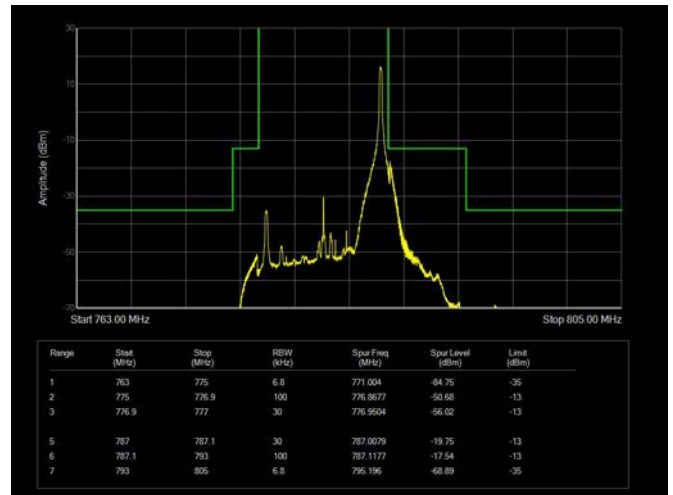


LTE Band 13

10MHz / Low Channel / 1RB



10MHz / High Channel / 1 RB



10MHz / Low Channel / Full RB



10MHz / High Channel / Full RB

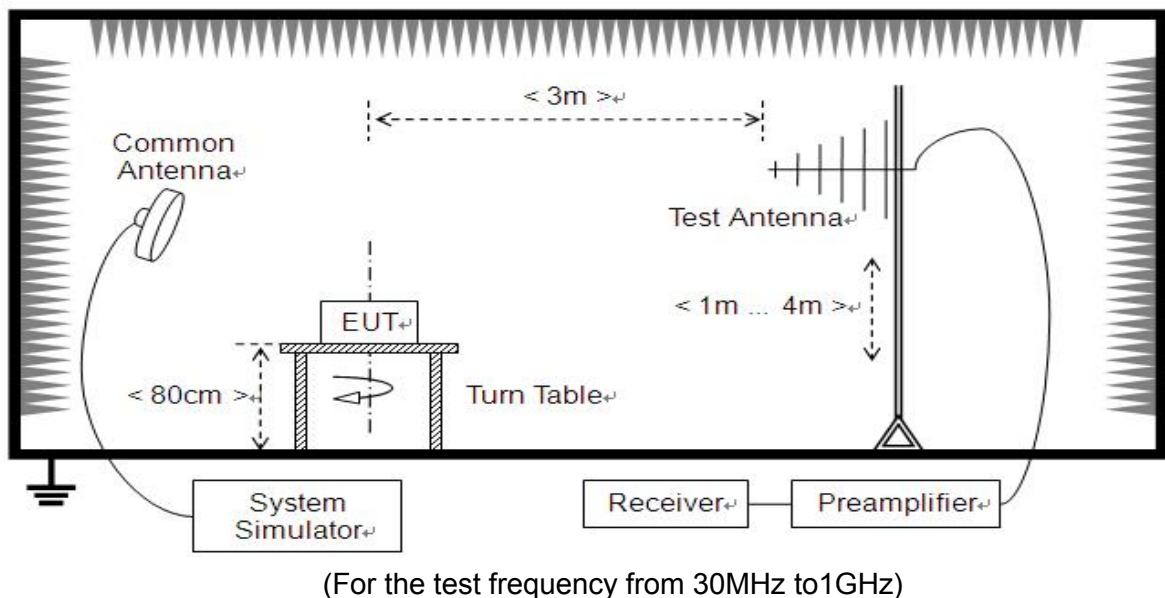


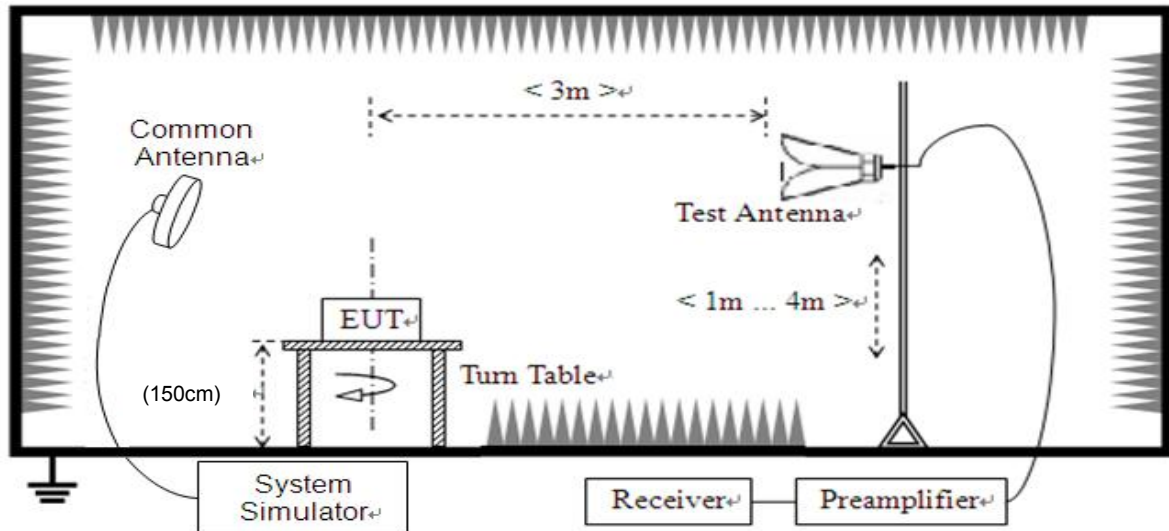
2.7. Transmitter Radiated Power (EIRP/ERP)

2.7.1. Requirement

1. According to FCC section 22.913 (a.2) for LTE Band 5/26, the ERP of mobile transmitters and auxiliary test transmitters must not exceed 7 watts.
2. According to FCC section 24.232 (c) for LTE Band 2/25, Mobile and portable stations are limited to 2 watts EIRP and the equipment must employ a means for limiting power to the minimum necessary for successful communications.
3. According to FCC section 27.50 (b) for LTE Band 13, Portable stations (hand-held devices) operating in the 775-788MHz band are limited to 3 watts ERP.
4. According to FCC section 27.50 (c) for LTE Band 12/17, Portable stations (hand-held devices) operating in the 704-716MHz band are limited to 3 watts ERP.
5. According to FCC section 27.50 (d) for LTE Band 4/66, fixed, mobile and portable (hand-held) stations in the 1710-1780MHz band are limited to 1 watt EIRP.
6. According to FCC section 27.50 (h) for LTE Band 7/41, Mobile and other user stations. Mobile stations are limited to 2.0 watts EIRP. All user stations are limited to 2 watts transmitter output power.

2.7.2. Test Description





(For the test frequency above 1GHz)

The testing follows FCC KDB 971168 v03r01 and ANSI/TIA-603-E (2016).

- Connect the equipment as illustrated. Mount the equipment with the manufacturer specified antenna in a vertical orientation on a manufacturer specified mounting surface located on a 3m Full-Anechoic Chamber.
- Key the transmitter, then rotate the EUT 360° azimuthally and record spectrum analyzer power level (LVL) measurements at angular increments that are sufficiently small to permit resolution of all peaks. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading at each angular increment. (Note: several batteries may be needed to offset the effect of battery voltage droop, which should not exceed 5% of the manufactured specified battery voltage during transmission).
- Replace the transmitter under test with a vertically polarized half-wave dipole (or an antenna whose gain is known relative to an ideal half-wave dipole). The center of the antenna should be at the same location as the center of the antenna under test.
- Connect the antenna to a signal generator with a known output power and record the path loss (in dB) as LOSS. If a standard radiation test site is used, raise and lower the test antenna to obtain a maximum reading. $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$
- Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:

$$ERP \text{ (dBm)} = LVL \text{ (dBm)} + LOSS \text{ (dB)}$$
- The maximum ERP is the maximum value determined in the preceding step.
- When calculating ERP, in addition to knowing the antenna radiation and matching characteristics, it is necessary to know the loss values of all elements (e.g. transmission line attenuation, mismatches, filters, combiners) interposed between the point where transmitter output power is measured, and the point where power is applied to the antenna. ERP can then be



calculated as follows:

$EIRP \text{ (dBm)} = \text{Output Power (dBm)} - \text{Losses (dB)} + \text{Antenna Gain (dBi)}$

$ERP \text{ (dBm)} = EIRP \text{ (dBm)} - 2.15 \text{ (dB)}$.

2.7.3. Test Result

Note: Both horizontal and vertical polarizations of the test antenna are evaluated respectively, only the worst data (horizontal) were recorded in this report.

Band	Maximum ERP/EIRP		Limit		Result
	dBm	W	dBm	W	
LTE Band 2	21.09	0.129	33	2	PASS
LTE Band 4	21.24	0.133	30	1	PASS
LTE Band 5	18.34	0.068	38.45	7	PASS
LTE Band 13	19.37	0.086	34.77	3	PASS



LTE Band 2						
Bandwidth MHz	Modulation	RB	RB	Measured EIRP		
		Size	Offset	Low Channel dBm	Middle Channel dBm	High Channel dBm
1.4	QPSK	1	0	20.68	20.84	20.81
		1	3	20.96	21.02	20.91
		1	5	20.91	20.69	20.90
		3	0	20.98	20.86	20.74
		3	1	21.01	21.02	20.78
		3	3	20.92	20.80	20.72
		6	0	20.07	19.96	20.15
	16-QAM	1	0	19.83	19.72	20.11
		1	3	20.07	20.05	20.13
		1	5	19.85	20.21	19.76
		3	0	20.17	20.14	20.16
		3	1	20.29	20.26	19.99
		3	3	19.98	20.23	19.89
		6	0	19.15	19.08	18.76
3	QPSK	1	0	20.92	20.71	20.76
		1	8	20.81	20.72	20.77
		1	14	20.96	20.85	20.88
		8	0	19.93	19.92	20.04
		8	4	20.06	19.97	19.93
		8	7	20.07	20.03	19.93
		15	0	19.96	19.95	19.98
	16-QAM	1	0	19.89	19.72	20.16
		1	8	19.68	19.82	20.20
		1	14	19.76	19.83	19.67
		8	0	19.18	18.84	18.99
		8	4	18.92	19.07	18.96
		8	7	18.86	18.95	18.99
		15	0	18.99	18.92	18.86
5	QPSK	1	0	20.76	20.71	20.74
		1	12	21.01	21.07	21.01
		1	24	20.83	20.86	20.94
		12	0	19.95	19.84	19.79
		12	7	20.02	19.90	19.91
		12	13	19.86	19.82	19.80



	16-QAM	50	0	19.95	19.88	19.85
		1	0	20.00	20.19	19.78
		1	12	20.17	20.06	20.02
		1	24	19.97	19.80	19.78
		12	0	18.97	18.96	18.95
		12	7	19.05	19.02	18.94
		12	13	19.07	18.98	18.92
		50	0	18.91	18.84	18.81
10	QPSK	1	0	20.84	20.66	20.73
		1	24	20.94	20.88	20.80
		1	49	20.87	20.61	20.85
		25	0	19.89	19.87	19.86
		25	12	19.96	19.88	19.81
		25	25	19.99	19.84	19.80
		50	0	19.92	19.87	19.80
	16-QAM	1	0	20.09	20.18	19.72
		1	24	19.86	19.78	19.69
		1	49	19.81	19.71	19.71
		25	0	18.96	19.02	18.95
		25	12	19.08	18.87	18.91
		25	25	19.09	18.84	18.74
		50	0	18.97	18.87	18.75
15	QPSK	1	0	20.79	20.77	20.44
		1	37	20.79	20.59	20.60
		1	74	20.71	20.52	20.69
		36	0	19.94	19.79	19.78
		36	20	19.86	19.75	19.77
		36	39	19.90	19.70	19.74
		75	0	19.93	19.90	19.86
	16-QAM	1	0	20.31	19.81	19.90
		1	37	20.15	20.17	20.03
		1	74	19.87	19.81	19.95
		36	0	18.70	18.91	18.76
		36	20	18.71	18.74	18.71
		36	39	18.84	18.71	18.77
		75	0	18.93	18.83	18.87
20	QPSK	1	0	20.84	20.86	20.89
		1	49	21.09	20.85	20.83



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		1	99	20.87	20.84	20.87
		50	0	19.79	19.67	19.79
		50	24	19.76	19.65	19.68
		50	50	19.77	19.63	19.57
		100	0	19.75	19.56	19.70
	16-QAM	1	0	19.86	20.05	19.75
		1	49	20.08	19.96	20.12
		1	99	19.67	19.66	19.76
		50	0	18.82	18.79	18.80
		50	24	18.95	18.69	18.75
		50	50	18.94	18.77	18.59
		100	0	18.88	18.74	18.70



LTE Band 4						
Bandwidth	Modulation	RB	RB	Measured EIRP		
MHz		Size	Offset	Low Channel	Middle Channel	High Channel
1.4	QPSK	1	0	20.43	20.13	20.17
		1	3	20.60	20.31	20.34
		1	5	20.42	20.15	20.21
		3	0	20.29	20.26	20.20
		3	1	20.57	20.24	20.30
		3	3	20.58	20.23	20.30
		6	0	19.53	19.21	19.26
	16-QAM	1	0	19.50	19.13	19.30
		1	3	19.63	19.30	19.52
		1	5	19.52	19.14	19.32
		3	0	20.20	20.26	20.20
		3	1	20.23	19.34	20.26
		3	3	20.23	20.20	20.01
		6	0	18.95	18.92	19.19
3	QPSK	1	0	20.92	20.84	20.99
		1	8	21.01	20.88	20.92
		1	14	20.88	20.98	20.87
		8	0	20.01	19.99	19.97
		8	4	20.08	19.96	19.93
		8	7	20.01	19.83	19.95
		15	0	20.04	19.97	19.94
	16-QAM	1	0	19.91	19.96	20.29
		1	8	19.81	20.28	19.84
		1	14	20.25	19.80	19.91
		8	0	19.22	18.95	19.13
		8	4	19.05	19.10	19.14
		8	7	18.92	19.08	19.08
		15	0	19.02	18.91	19.00
5	QPSK	1	0	20.43	20.16	20.08
		1	12	20.48	20.23	20.22
		1	24	20.40	20.08	20.16
		12	0	19.44	19.25	19.16
		12	7	19.47	19.18	19.17
		12	13	19.50	19.14	19.22



	16-QAM	50	0	19.47	19.18	19.24
		1	0	20.03	19.91	20.01
		1	12	20.08	19.45	20.18
		1	24	19.93	19.90	19.39
		12	0	19.10	18.99	19.19
		12	7	19.12	19.02	19.05
		12	13	19.16	19.01	18.98
		50	0	18.99	18.94	18.98
10	QPSK	1	0	21.08	20.86	20.93
		1	24	21.22	21.00	21.01
		1	49	21.01	20.85	20.84
		25	0	19.48	19.35	19.31
		25	12	19.51	19.30	19.32
		25	25	19.52	19.23	19.30
		50	0	19.53	19.26	19.33
	16-QAM	1	0	19.51	19.80	19.36
		1	24	19.62	19.84	19.52
		1	49	19.44	19.73	19.39
		25	0	19.08	19.23	19.14
		25	12	19.27	19.05	19.07
		25	25	19.23	18.93	19.00
		50	0	19.02	18.92	18.94
15	QPSK	1	0	21.06	20.86	20.97
		1	37	21.20	21.15	21.11
		1	74	20.95	20.89	20.87
		36	0	19.99	20.14	20.05
		36	20	20.04	19.97	20.13
		36	39	20.08	19.94	19.93
		75	0	20.09	20.05	20.11
	16-QAM	1	0	20.26	19.65	19.93
		1	37	19.47	20.01	20.12
		1	74	20.17	19.78	19.76
		36	0	19.09	18.96	18.97
		36	20	18.97	18.96	18.94
		36	39	19.06	18.93	19.00
		75	0	18.96	18.98	19.04
20	QPSK	1	0	21.24	21.15	21.11
		1	49	20.60	20.65	20.72



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		1	99	20.70	20.72	20.69
		50	0	20.08	20.05	20.07
		50	24	20.06	20.00	20.00
		50	50	20.02	19.82	19.93
		100	0	19.95	19.97	19.95
	16-QAM	1	0	20.24	20.05	20.03
		1	49	19.72	20.26	19.80
		1	99	20.25	20.22	19.60
		50	0	18.89	18.97	19.06
		50	24	18.98	18.96	19.01
		50	50	18.92	18.91	19.01
		100	0	19.27	19.23	19.29



LTE Band 5						
Bandwidth	Modulation	RB	RB	Measured ERP		
		Size	Offset	Low Channel	Middle Channel	High Channel
MHz						
1.4	QPSK	1	0	18.15	17.95	18.13
		1	3	18.33	18.17	18.25
		1	5	18.10	17.95	18.17
		3	0	18.10	18.00	18.05
		3	1	18.08	18.02	18.04
		3	3	18.08	18.03	17.99
		6	0	17.16	17.10	17.15
	16-QAM	1	0	17.07	17.19	16.87
		1	3	17.31	17.36	17.01
		1	5	17.05	17.17	16.84
		3	0	17.27	17.01	17.00
		3	1	17.27	17.03	16.99
		3	3	17.27	17.09	16.97
		6	0	16.14	16.02	16.05
3	QPSK	1	0	18.10	17.95	18.14
		1	8	18.01	17.94	18.19
		1	14	18.01	17.99	18.25
		8	0	17.17	17.09	17.15
		8	4	17.15	17.09	17.13
		8	7	17.14	17.10	17.10
		15	0	17.16	17.04	17.04
	16-QAM	1	0	17.41	17.21	16.96
		1	8	17.31	17.18	16.92
		1	14	17.31	17.18	16.94
		8	0	16.17	15.99	16.10
		8	4	16.13	16.01	16.10
		8	7	16.11	16.05	16.04
		15	0	16.10	15.88	16.00
5	QPSK	1	0	18.05	17.93	17.91
		1	12	18.08	18.07	18.02
		1	24	17.97	17.91	17.88
		12	0	17.13	17.03	17.05
		12	7	17.11	17.02	17.02
		12	13	17.10	17.04	17.01



	16-QAM	50	0	17.14	17.05	17.10
		1	0	17.27	17.09	17.27
		1	12	17.40	17.21	17.31
		1	24	17.20	17.07	17.09
		12	0	16.05	15.94	16.12
		12	7	16.06	16.00	16.09
		12	13	16.08	16.01	16.06
		50	0	16.13	16.00	16.06
10	QPSK	1	0	18.03	17.98	18.10
		1	24	18.33	18.17	18.34
		1	49	17.95	17.98	18.17
		25	0	17.13	17.07	17.14
		25	12	17.14	17.08	17.15
		25	25	17.17	17.09	17.19
		50	0	17.16	17.06	17.16
	16-QAM	1	0	17.31	17.11	16.99
		1	24	17.42	17.33	17.09
		1	49	17.19	17.17	17.00
		25	0	16.17	16.07	16.12
		25	12	16.19	16.00	16.12
		25	25	16.22	16.05	16.13
		50	0	16.14	16.05	16.15



LTE Band 13						
Bandwidth	Modulation	RB	RB	Measured ERP		
		Size	Offset	Low Channel	Middle Channel	High Channel
MHz						
5	QPSK	1	0	19.11	18.96	18.93
		1	12	19.12	19.07	19.09
		1	24	19.07	18.90	19.01
		12	0	17.71	17.72	17.79
		12	7	17.74	17.79	17.78
		12	13	17.82	17.80	17.75
		50	0	17.73	17.75	17.73
	16-QAM	1	0	17.85	17.87	17.72
		1	12	18.01	17.99	17.79
		1	24	17.93	17.95	17.70
		12	0	16.60	16.61	16.68
		12	7	16.60	16.70	16.68
		12	13	16.60	16.82	16.68
		50	0	16.65	16.68	16.71
10	QPSK	1	0	/	19.37	/
		1	24	/	19.03	/
		1	49	/	18.98	/
		25	0	/	17.71	/
		25	12	/	17.72	/
		25	25	/	17.75	/
		50	0	/	17.71	/
	16-QAM	1	0	/	17.72	/
		1	24	/	17.88	/
		1	49	/	18.01	/
		25	0	/	16.73	/
		25	12	/	16.73	/
		25	25	/	16.74	/
		50	0	/	16.69	/



2.8. Radiated Spurious Emissions

2.8.1. Requirement

According to FCC section 22.917(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 24.238(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

According to FCC section 27.53(c) (2), for on any frequency outside the the 776–788 MHz band, the power of any emission shall be attenuated the band below the transmitter power (P) by at least $43 + 10 \log (P)$ dB.

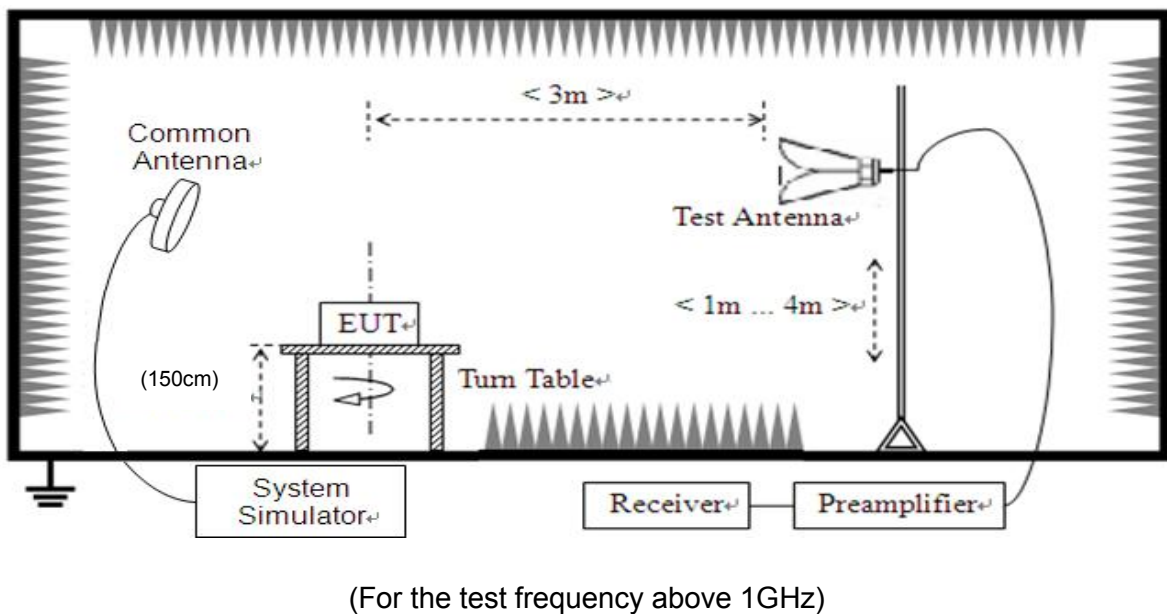
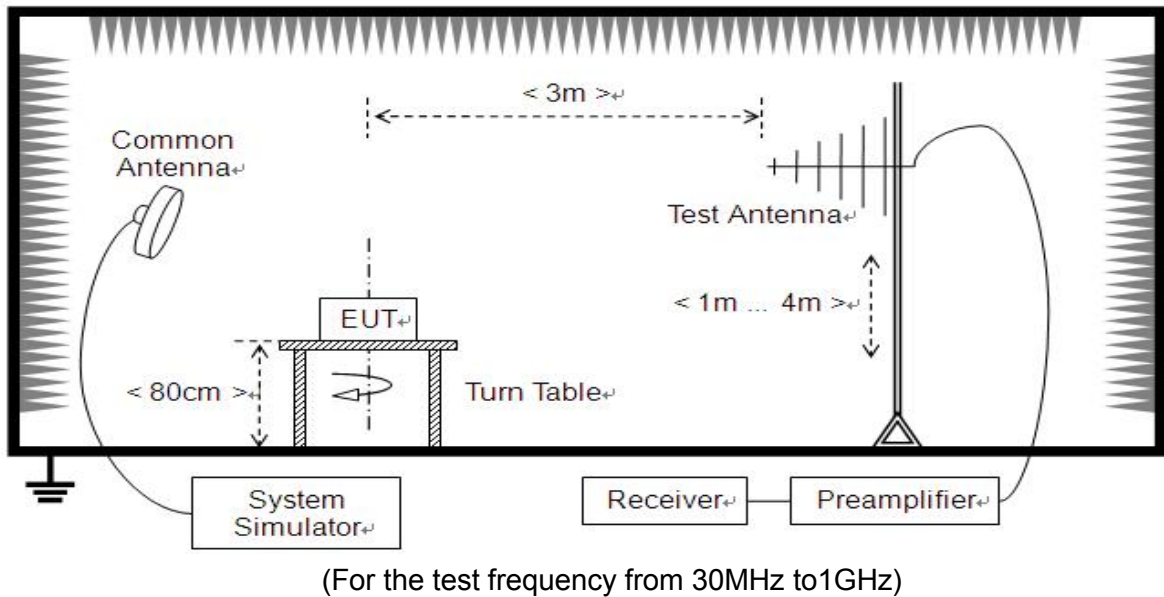
For operating in the 770-788MHz, emissions in the band 1559-1610MHz shall be limited to -70dBW/MHz. The limit of emission is equal to -40dBm

According to FCC section 27.53(g), for operations in the 698–746 MHz band, the power of any emission outside a 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, by at least $43 + 10 \log (P)$ dB. Compliance with this provision is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kilohertz or greater. 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.

According to FCC section 27.53(h), For operations in the 1710–1785MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

According to FCC section 27.53(m) (4)(6), For mobile digital stations, 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.

2.8.2. Test Description



The EUT is located in a 3m Full-Anechoic Chamber, the cable loss, air loss and so on of the site as factors are pre-calibrated using the "Substitution" method, and calculated to correct the reading. A call is established between the EUT and the SS via a Common Antenna. The EUT is commanded by the SS to operate at the maximum and minimum output power, and only the test result of the maximum output power was recorded.

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to



determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

Note: when doing measurements above 1GHz, the EUT has been within the 3dB cone width of the horn antenna during horizontal antenna.

2.8.3. Test procedure

KDB 971168 D01v03r01 Section 5.8 and ANSI/TIA-603-E-2016.

2.8.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. Test Antenna height is varied from 1m to 4m above the ground, and the Turn Table is actuated to turn from 0° to 360°, both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

Note1: The power of the EUT transmitting frequency should be ignored.

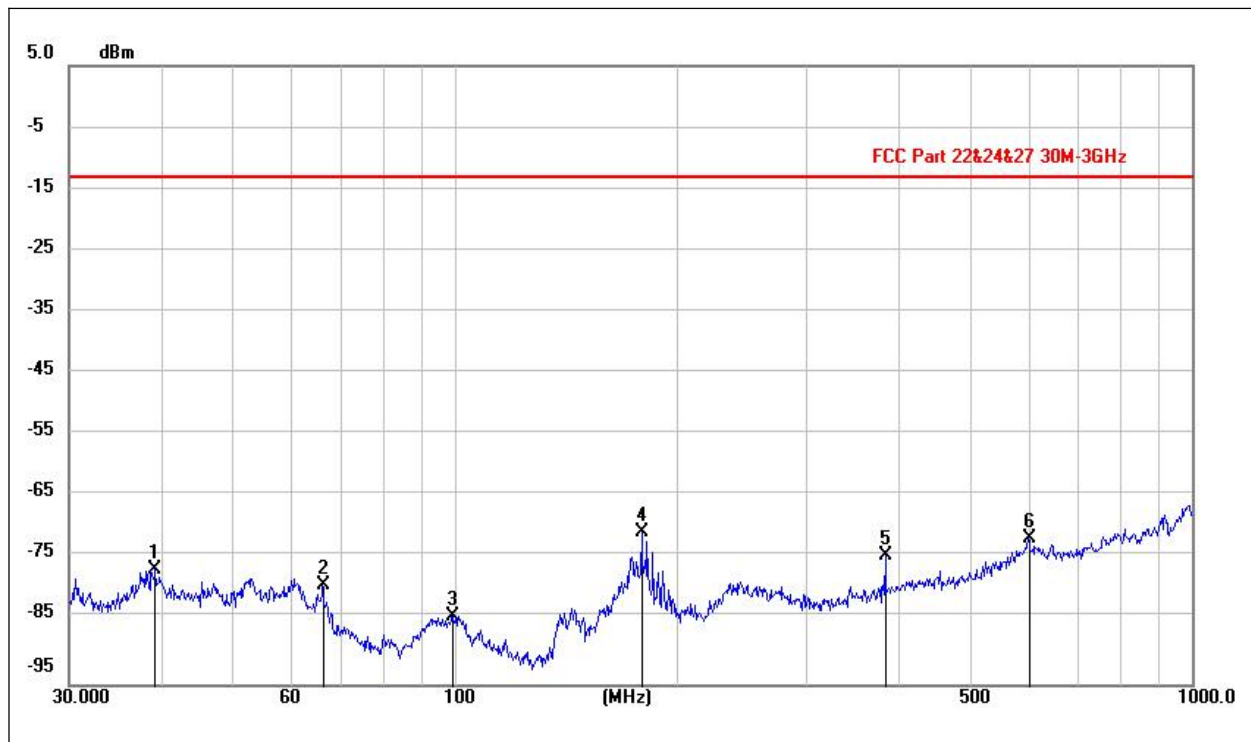
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis Y axis test condition was recorded in this test report.

Note3: All bandwidth and test channel were considered and evaluated respectively by performing full test for each band, only the worst cases were recorded in this test report.

Note4: All modulation including QPSK, 16-QAM, 64-QAM were considered and evaluated respectively by performing full test for each band, only the worst cases QPSK were recorded in this test report.

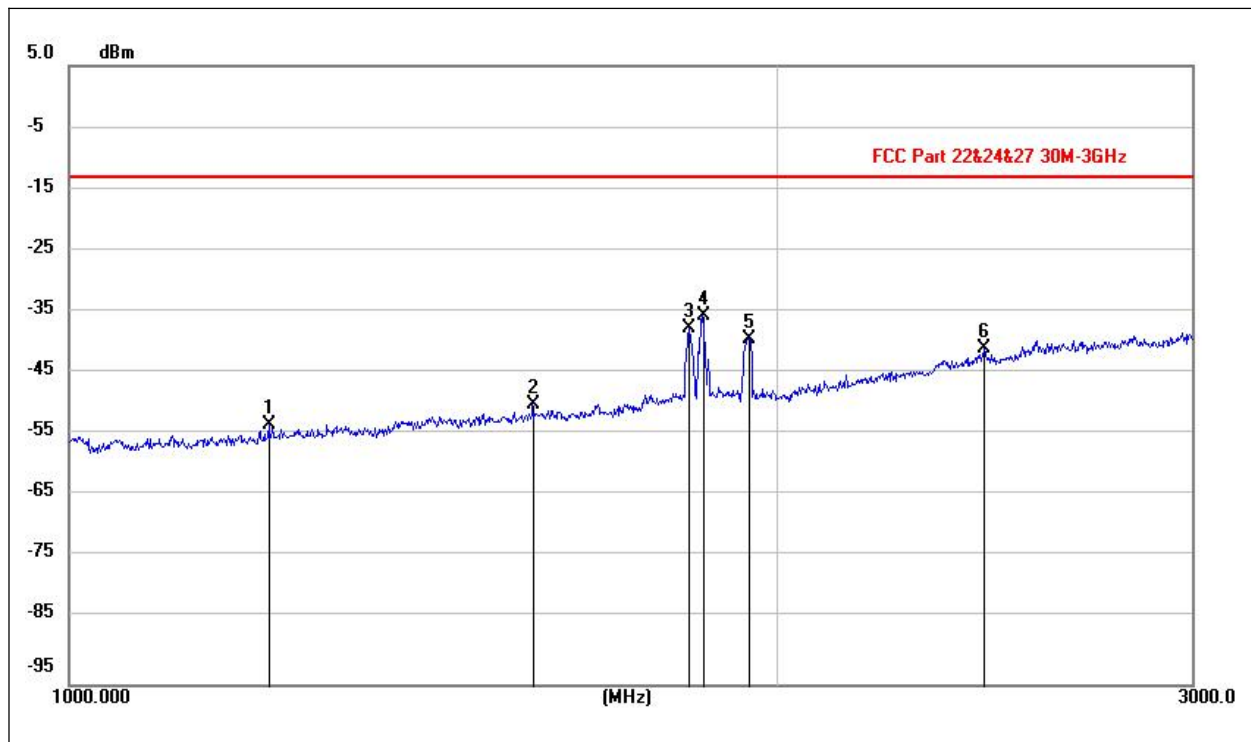
Note5: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 20dB lower than the limit was not recorded.

Note6: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.



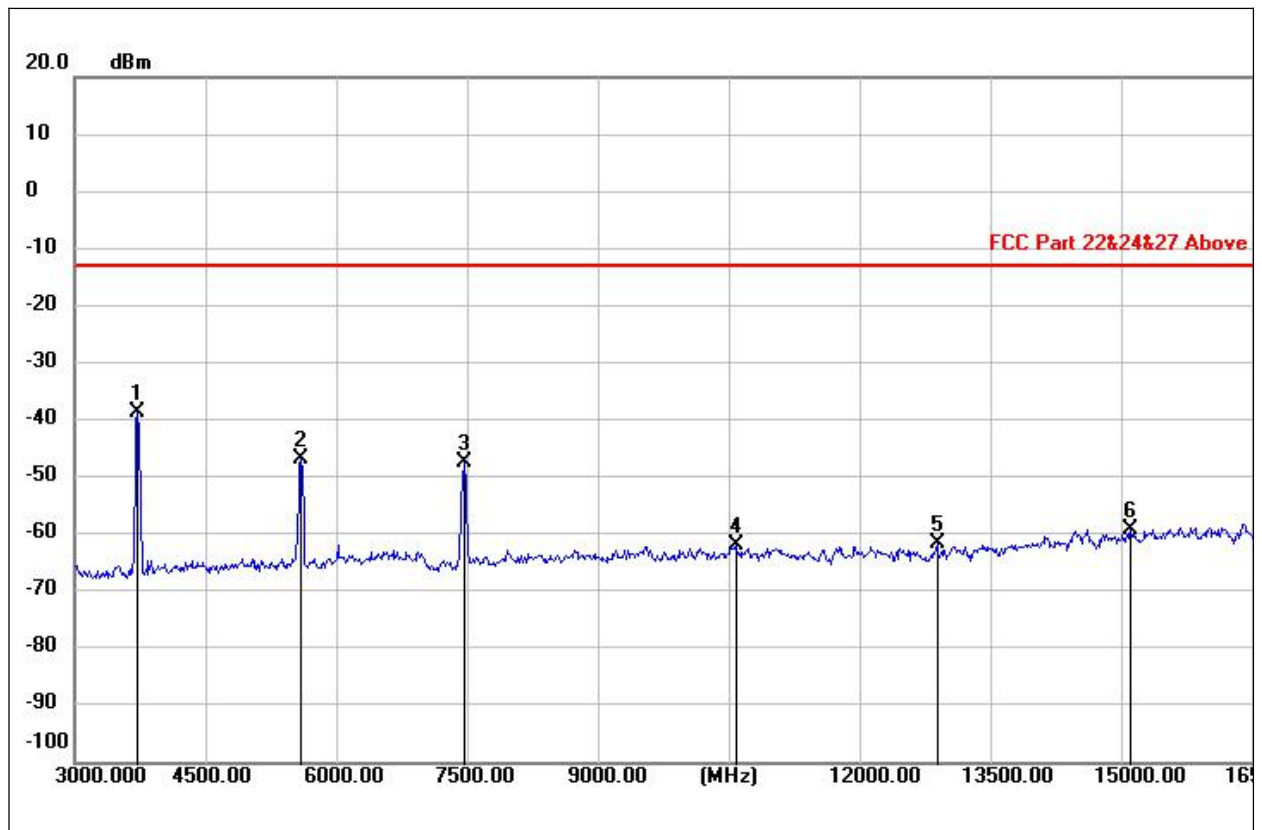
(LTE Band 2 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
39.2991	-76.17	-13.00	63.17	H	PASS
66.2662	-78.83	-13.00	65.83	H	PASS
99.5281	-83.72	-13.00	70.72	H	PASS
179.3864	-70.25	-13.00	57.25	H	PASS
383.9318	-74.06	-13.00	61.06	H	PASS
599.3213	-71.32	-13.00	58.32	H	PASS



(LTE Band 2 _QPSK _ Low Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1215.983	-52.92	-13.00	39.92	H	PASS
1574.168	-49.72	-13.00	36.72	H	PASS
1833.880	-37.44	-13.00	24.44	H	PASS
1858.217	-35.37	-13.00	22.37	H	PASS
1945.967	-39.07	-13.00	26.07	H	PASS
2448.239	-40.69	-13.00	27.69	H	PASS



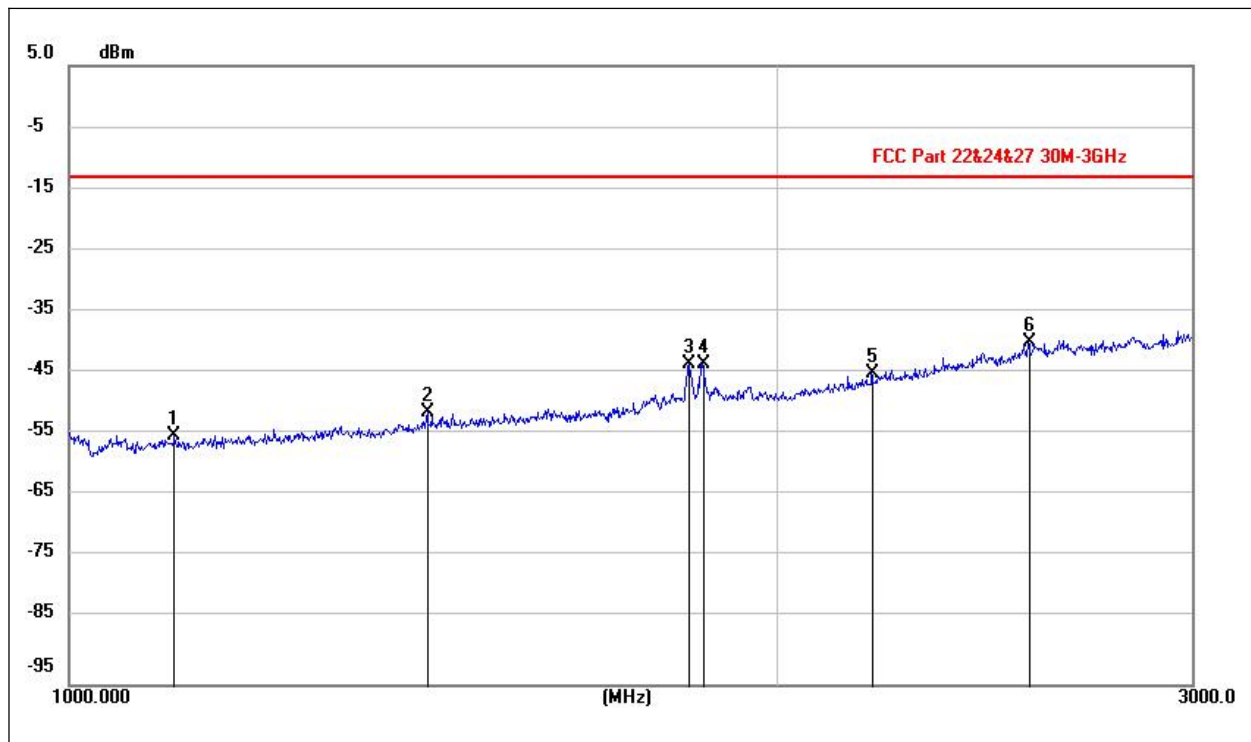
(LTE Band 2 _QPSK _ Low Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3720.000	-38.55	-13.00	25.55	H	PASS
5580.000	-46.93	-13.00	33.93	H	PASS
7440.000	-47.49	-13.00	34.49	H	PASS
10530.000	-61.96	-13.00	48.96	H	PASS
12825.000	-61.56	-13.00	48.56	H	PASS
15030.000	-59.11	-13.00	46.11	H	PASS



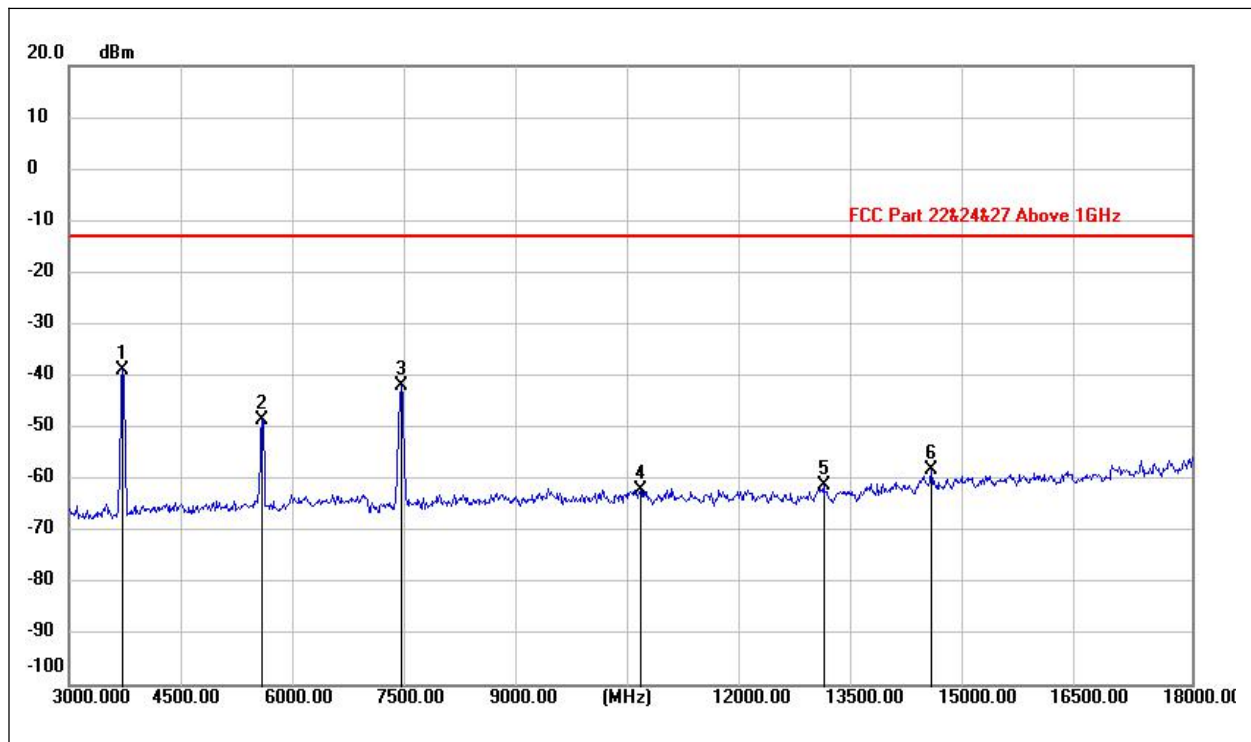
(LTE Band 2 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.8535	-56.01	-13.00	43.01	V	PASS
52.5753	-65.63	-13.00	52.63	V	PASS
80.3619	-77.18	-13.00	64.18	V	PASS
156.4578	-74.58	-13.00	61.58	V	PASS
289.0021	-79.40	-13.00	66.40	V	PASS
560.6928	-73.51	-13.00	60.51	V	PASS



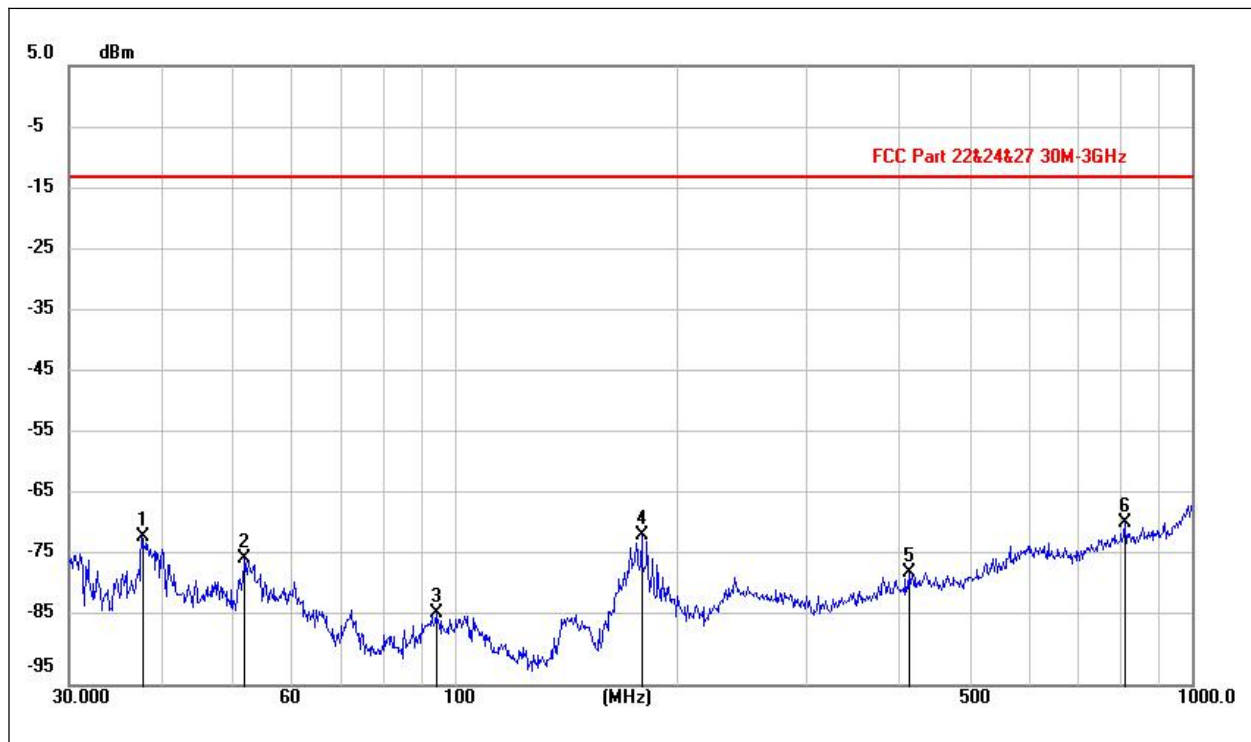
(LTE Band 2 _ QPSK _ Low Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1108.790	-54.62	-13.00	41.62	V	PASS
1419.717	-50.83	-13.00	37.83	V	PASS
1833.880	-43.06	-13.00	30.06	V	PASS
1858.217	-43.09	-13.00	30.09	V	PASS
2193.521	-44.66	-13.00	31.66	V	PASS
2555.416	-39.66	-13.00	26.66	V	PASS



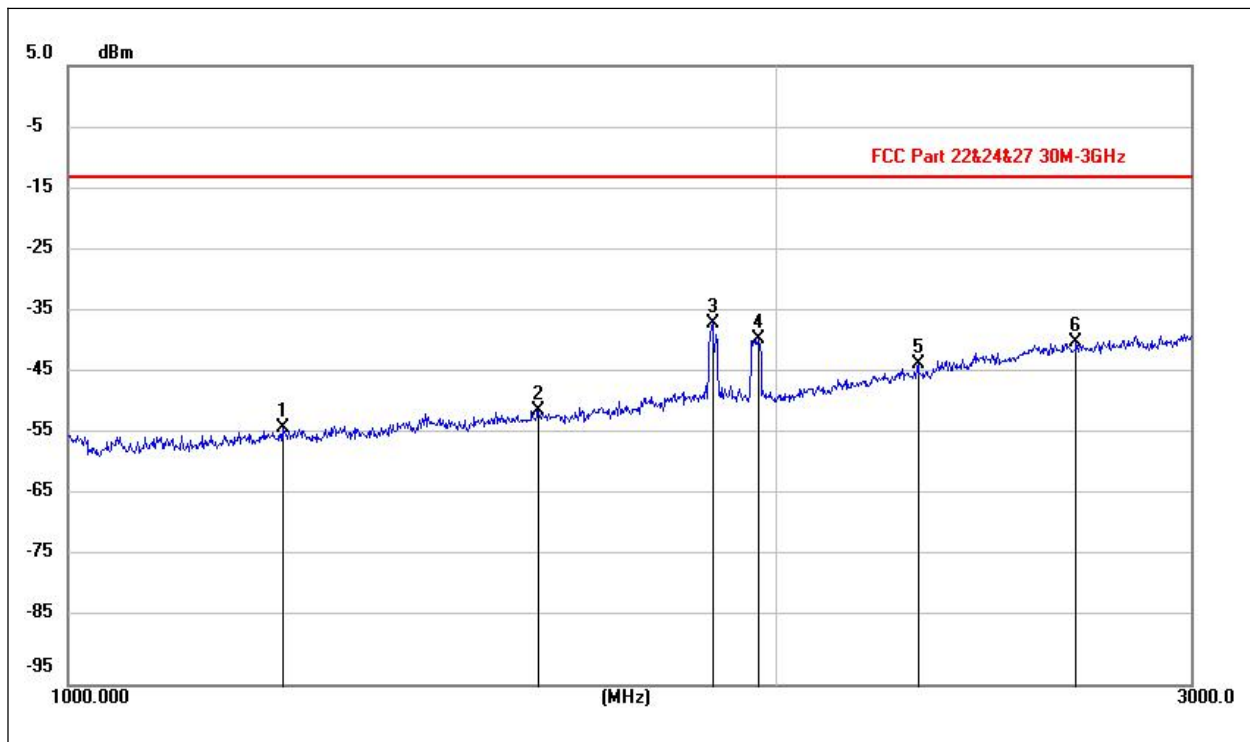
(LTE Band 2 _ QPSK _ Low Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3720.000	-38.89	-13.00	25.89	V	PASS
5580.000	-48.54	-13.00	35.54	V	PASS
7440.000	-42.01	-13.00	29.01	V	PASS
10635.000	-62.13	-13.00	49.13	V	PASS
13080.000	-61.38	-13.00	48.38	V	PASS
14520.000	-58.27	-13.00	45.27	V	PASS



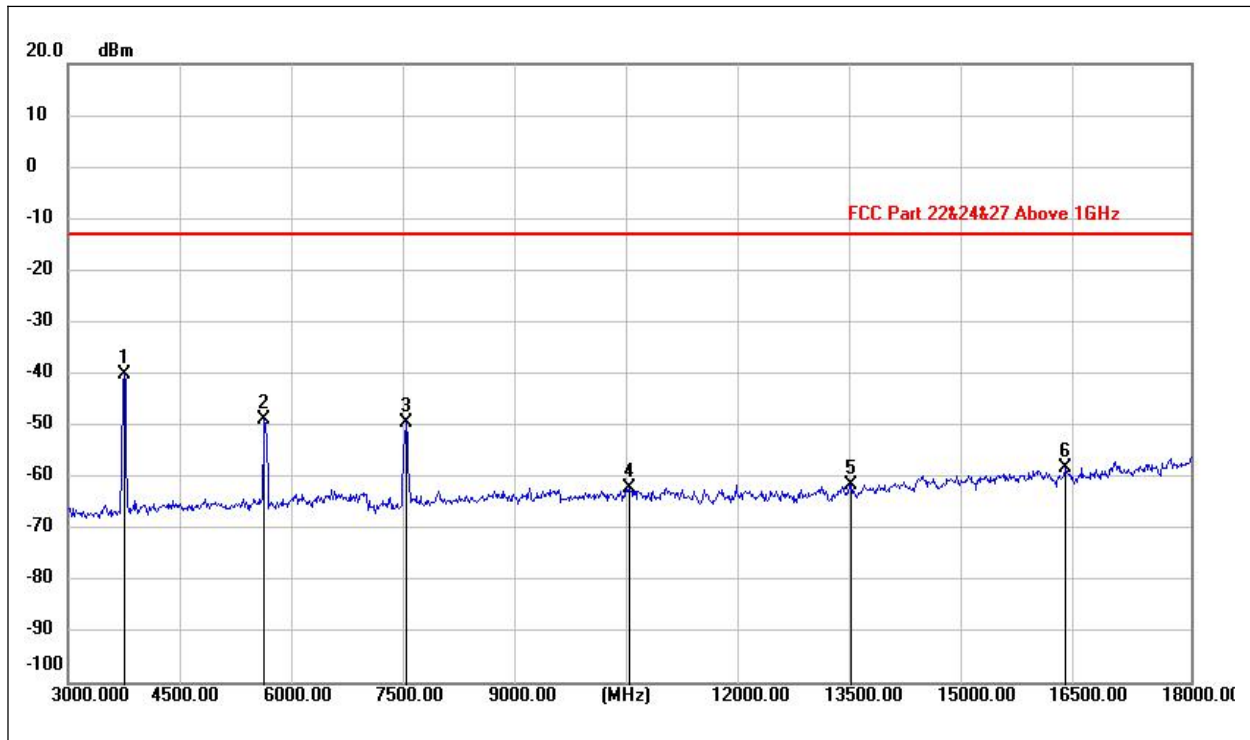
(LTE Band 2 _ QPSK_Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
37.6798	-70.93	-13.00	57.93	H	PASS
51.8430	-74.58	-13.00	61.58	H	PASS
94.4284	-83.35	-13.00	70.35	H	PASS
179.3864	-70.74	-13.00	57.74	H	PASS
413.2706	-76.88	-13.00	63.88	H	PASS
810.2654	-68.73	-13.00	55.73	H	PASS



(LTE Band 2 _ QPSK_Middle Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1233.475	-53.45	-13.00	40.45	H	PASS
1582.839	-50.67	-13.00	37.67	H	PASS
1878.744	-36.60	-13.00	23.60	H	PASS
1965.303	-39.05	-13.00	26.05	H	PASS
2297.105	-43.15	-13.00	30.15	H	PASS
2681.976	-39.54	-13.00	26.54	H	PASS



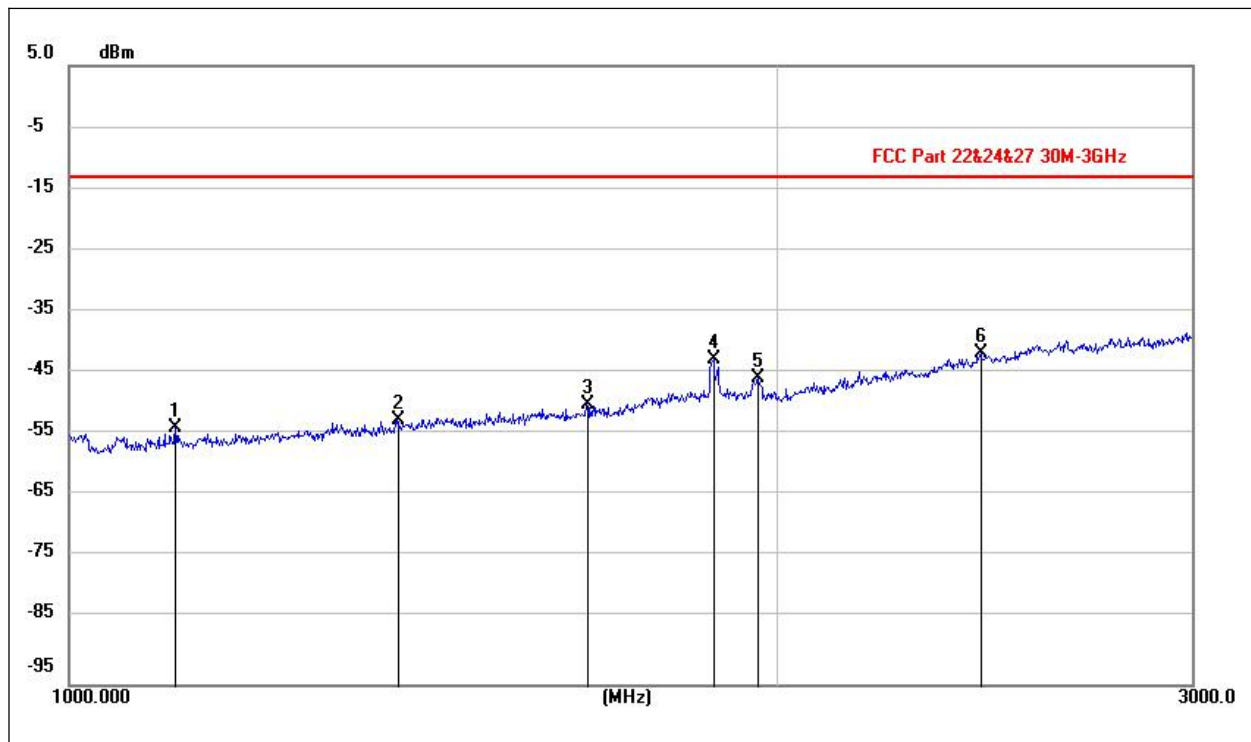
(LTE Band 2 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3750.000	-40.05	-13.00	27.05	H	PASS
5625.000	-48.92	-13.00	35.92	H	PASS
7515.000	-49.56	-13.00	36.56	H	PASS
10500.000	-62.05	-13.00	49.05	H	PASS
13470.000	-61.45	-13.00	48.45	H	PASS
16320.000	-58.27	-13.00	45.27	H	PASS



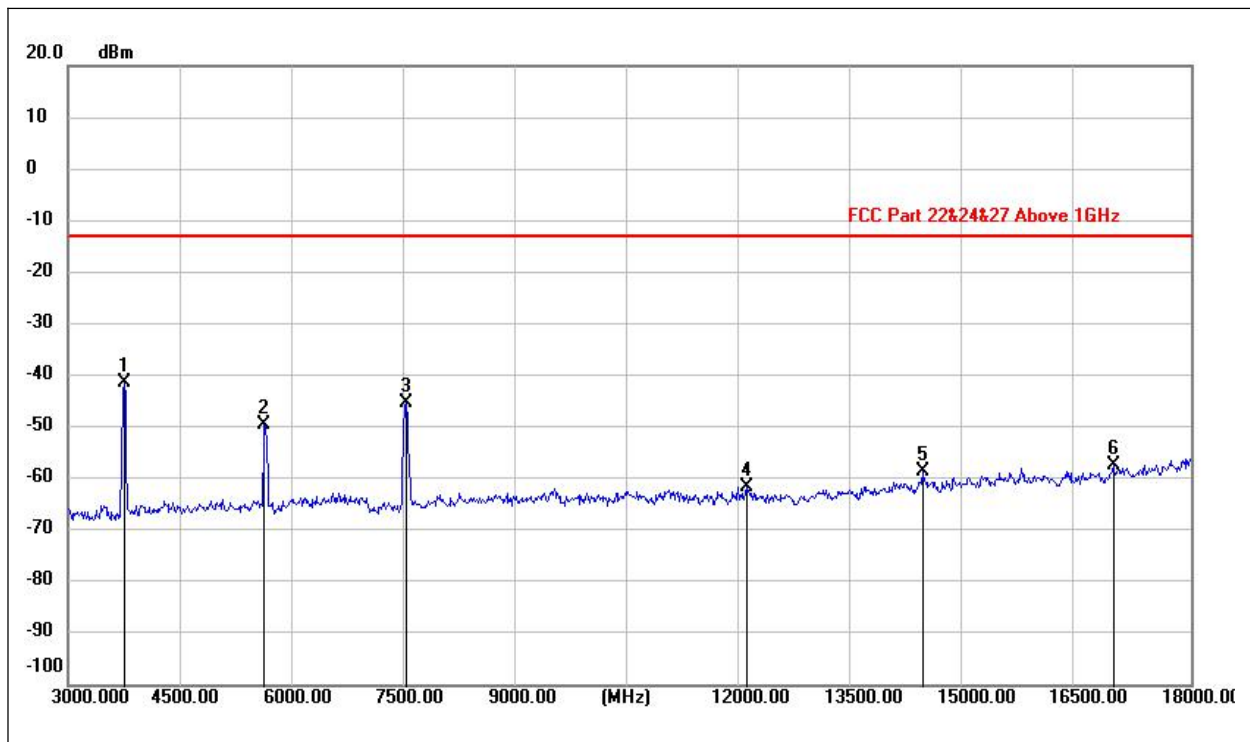
(LTE Band 2 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
31.0706	-56.57	-13.00	43.57	V	PASS
52.0251	-65.54	-13.00	52.54	V	PASS
91.8163	-79.97	-13.00	66.97	V	PASS
155.9101	-74.75	-13.00	61.75	V	PASS
382.5879	-78.69	-13.00	65.69	V	PASS
620.7096	-71.66	-13.00	58.66	V	PASS



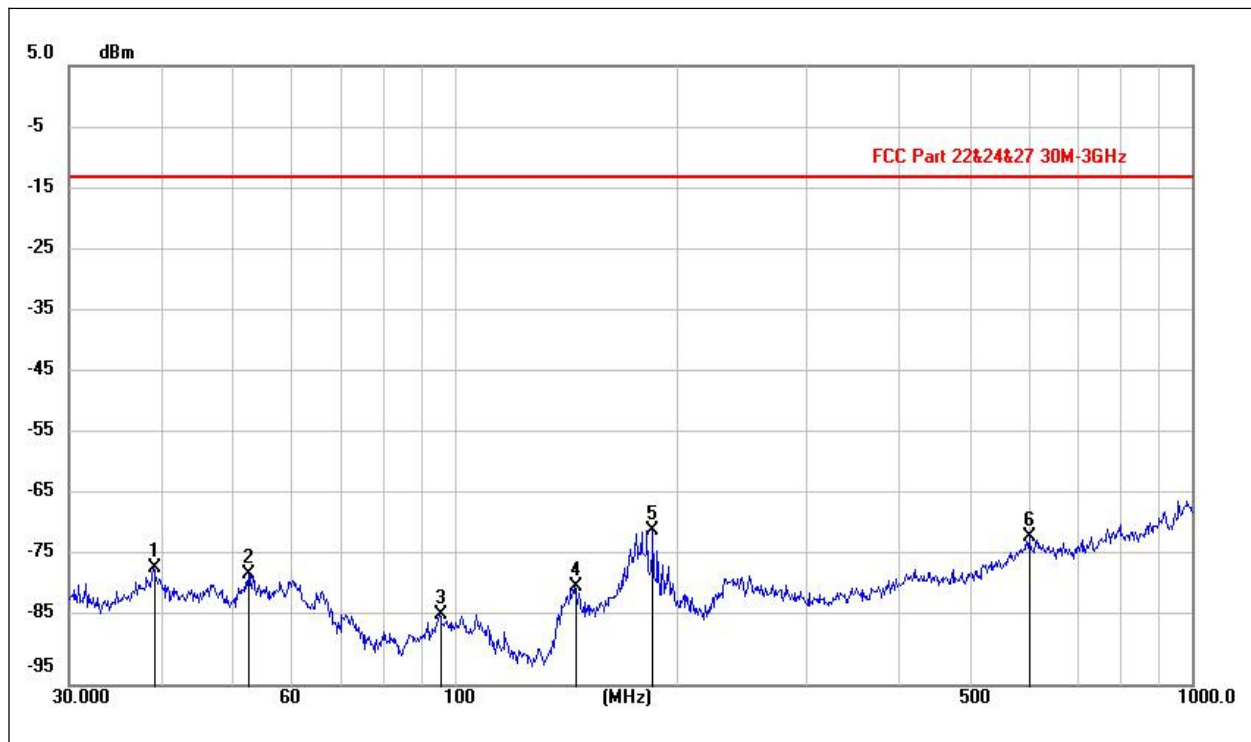
(LTE Band 2 _QPSK_ Middle Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1110.009	-53.48	-13.00	40.48	V	PASS
1378.223	-52.08	-13.00	39.08	V	PASS
1659.407	-49.73	-13.00	36.73	V	PASS
1878.744	-42.42	-13.00	29.42	V	PASS
1963.145	-45.37	-13.00	32.37	V	PASS
2440.183	-41.45	-13.00	28.45	V	PASS



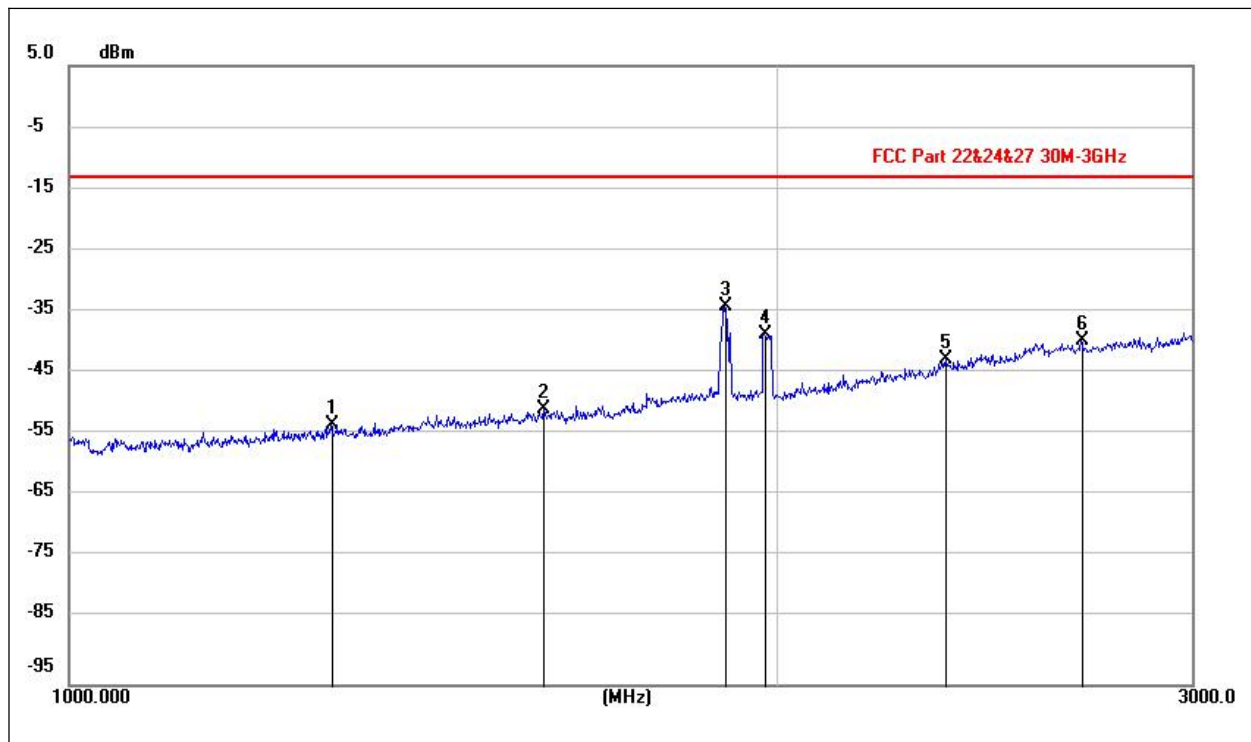
(LTE Band 2 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3750.000	-41.24	-13.00	28.24	V	PASS
5625.000	-49.40	-13.00	36.40	V	PASS
7515.000	-45.20	-13.00	32.20	V	PASS
12060.000	-61.58	-13.00	48.58	V	PASS
14415.000	-58.56	-13.00	45.56	V	PASS
16965.000	-57.47	-13.00	44.47	V	PASS



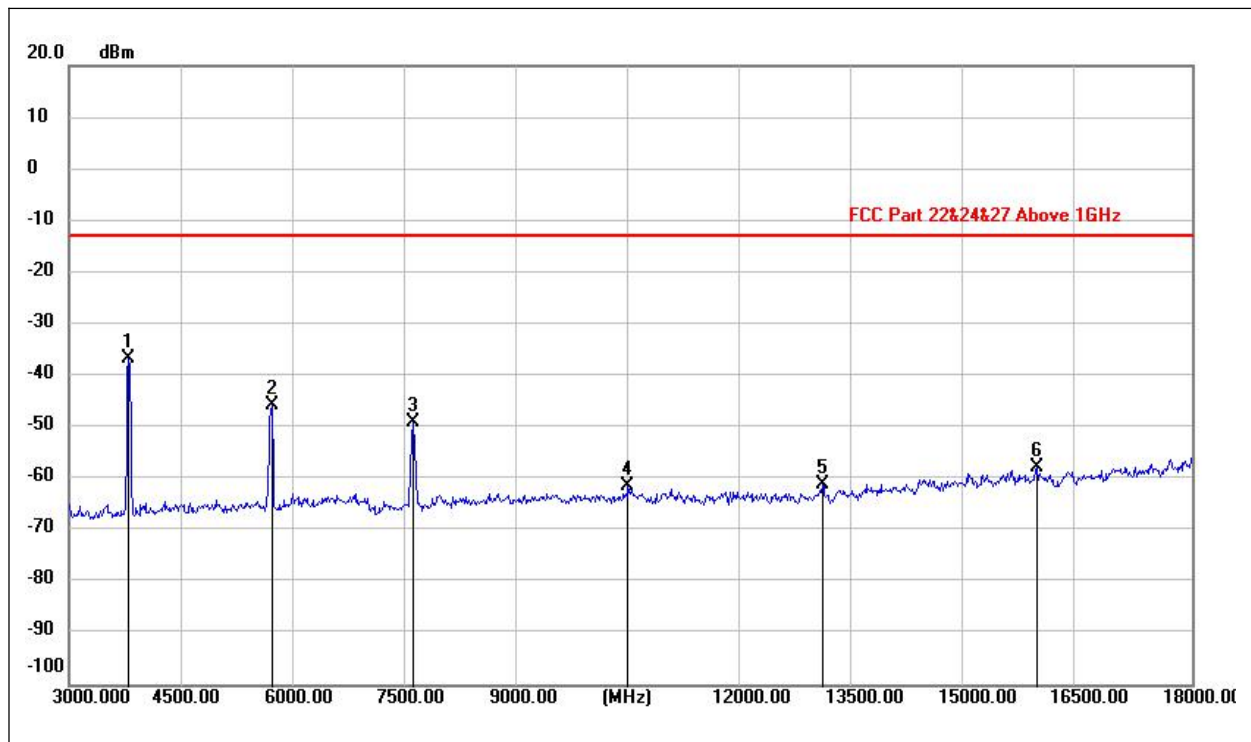
(LTE Band 2 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
39.0245	-76.11	-13.00	63.11	H	PASS
52.5753	-77.09	-13.00	64.09	H	PASS
95.4270	-83.57	-13.00	70.57	H	PASS
145.3506	-78.94	-13.00	65.94	H	PASS
185.7882	-69.96	-13.00	56.96	H	PASS
601.4265	-71.04	-13.00	58.04	H	PASS



(LTE Band 2 _QPSK_ High Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1291.723	-53.01	-13.00	40.01	H	PASS
1591.557	-50.41	-13.00	37.41	H	PASS
1899.498	-33.93	-13.00	20.93	H	PASS
1973.959	-38.33	-13.00	25.33	H	PASS
2358.477	-42.28	-13.00	29.28	H	PASS
2690.830	-39.44	-13.00	26.44	H	PASS

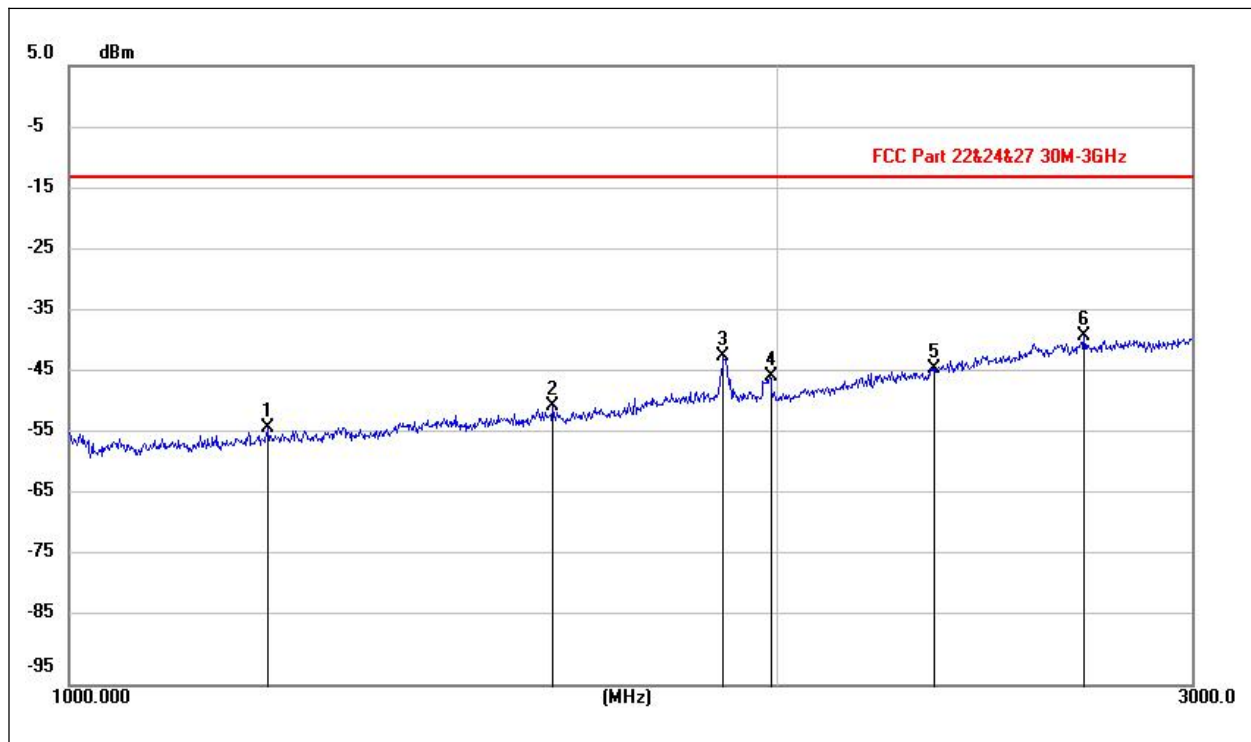


(LTE Band 2 _QPSK_ High Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3795.000	-36.57	-13.00	23.57	H	PASS
5715.000	-45.80	-13.00	32.80	H	PASS
7590.000	-48.89	-13.00	35.89	H	PASS
10470.000	-61.27	-13.00	48.27	H	PASS
13065.000	-61.19	-13.00	48.19	H	PASS
15930.000	-57.70	-13.00	44.70	H	PASS

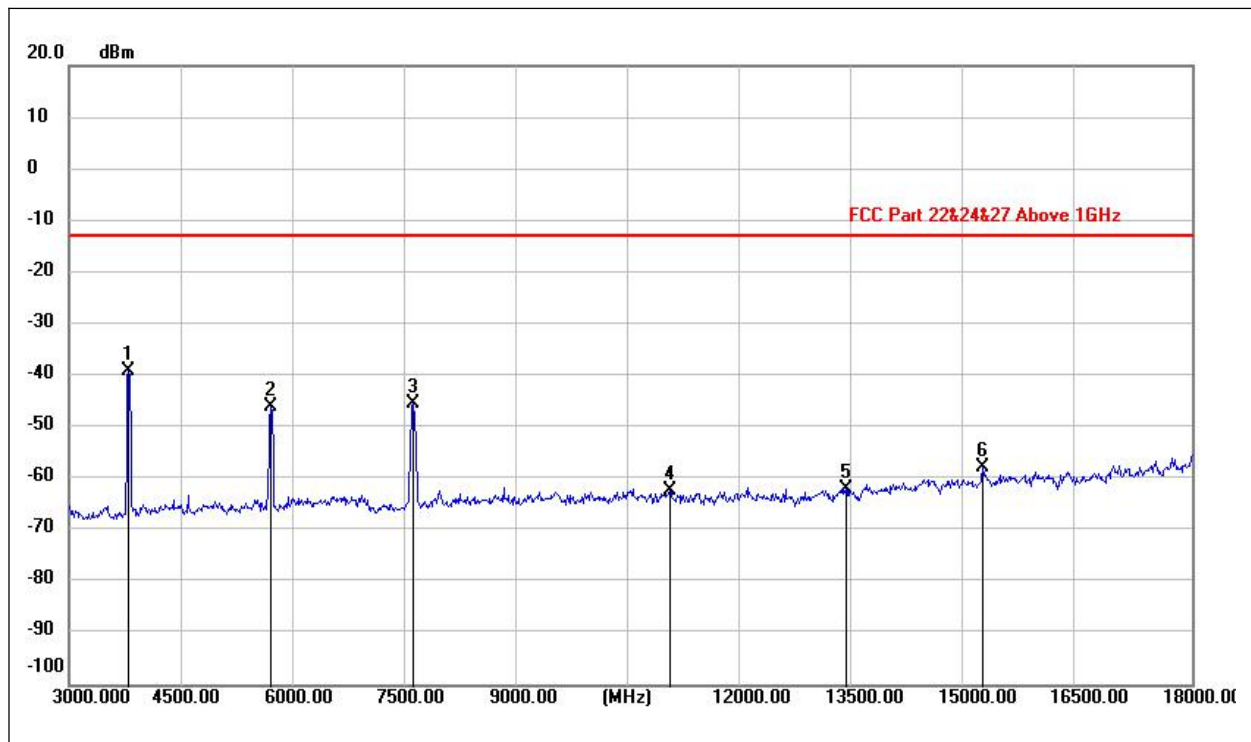


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.5306	-56.25	-13.00	43.25	V	PASS
52.7600	-65.90	-13.00	52.90	V	PASS
92.7872	-80.31	-13.00	67.31	V	PASS
157.0074	-75.22	-13.00	62.22	V	PASS
278.0669	-79.04	-13.00	66.04	V	PASS
601.4265	-72.42	-13.00	59.42	V	PASS



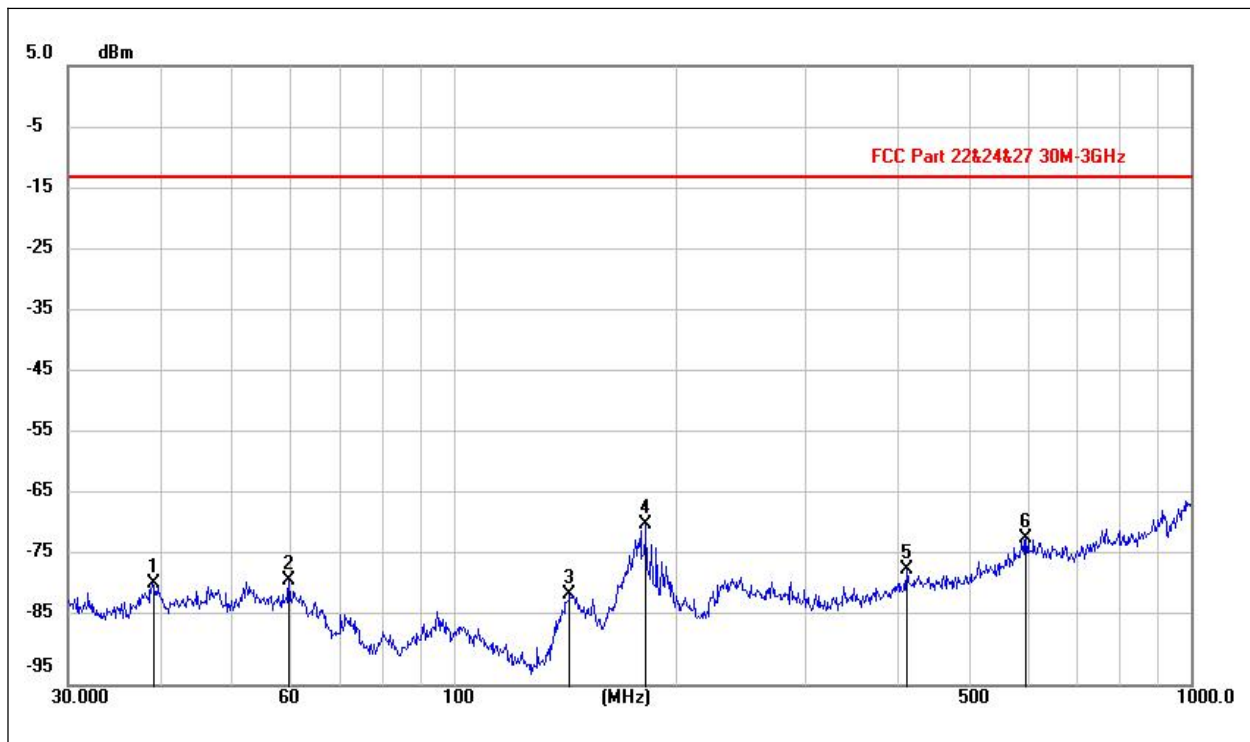
(LTE Band 2 _QPSK_ High Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1214.648	-53.54	-13.00	40.54	V	PASS
1605.607	-49.94	-13.00	36.94	V	PASS
1897.412	-41.78	-13.00	28.78	V	PASS
1984.832	-45.17	-13.00	32.17	V	PASS
2327.589	-43.84	-13.00	30.84	V	PASS
2699.713	-38.71	-13.00	25.71	V	PASS



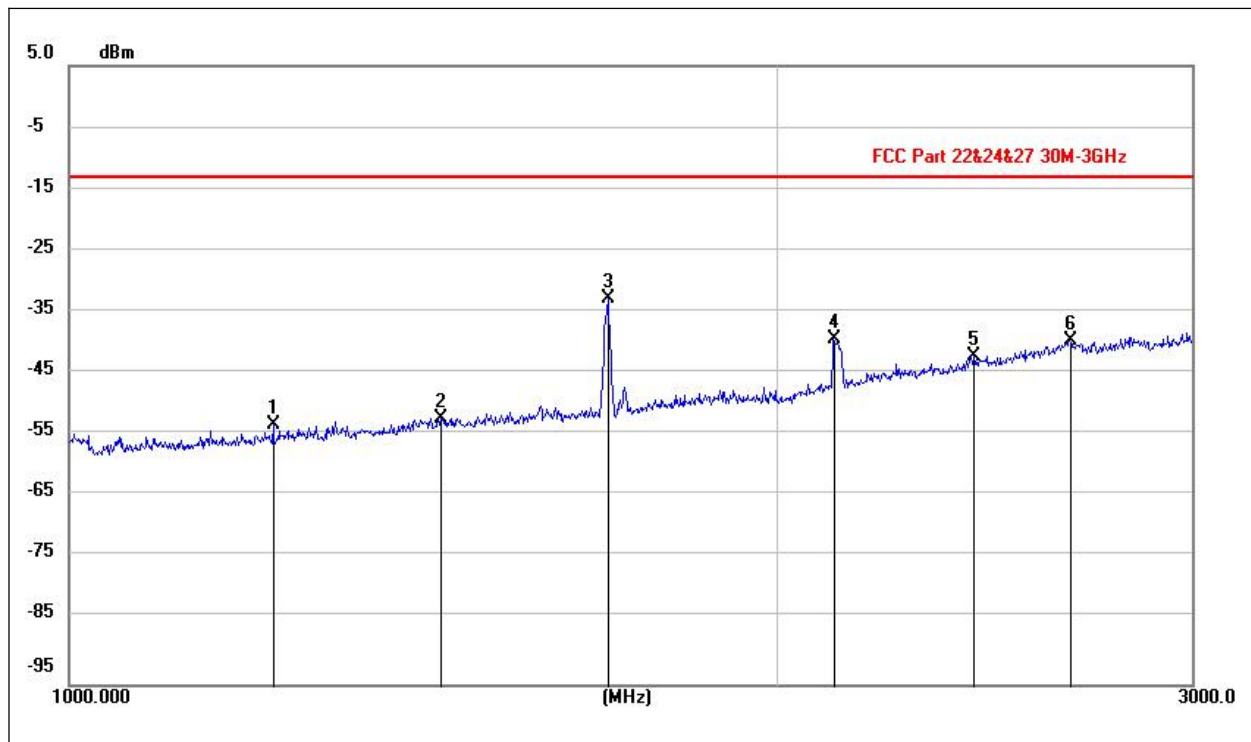
(LTE Band 2 _QPSK_ High Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3795.000	-39.19	-13.00	26.19	V	PASS
5700.000	-46.06	-13.00	33.06	V	PASS
7590.000	-45.34	-13.00	32.34	V	PASS
11025.000	-62.35	-13.00	49.35	V	PASS
13380.000	-61.95	-13.00	48.95	V	PASS
15210.000	-57.87	-13.00	44.87	V	PASS



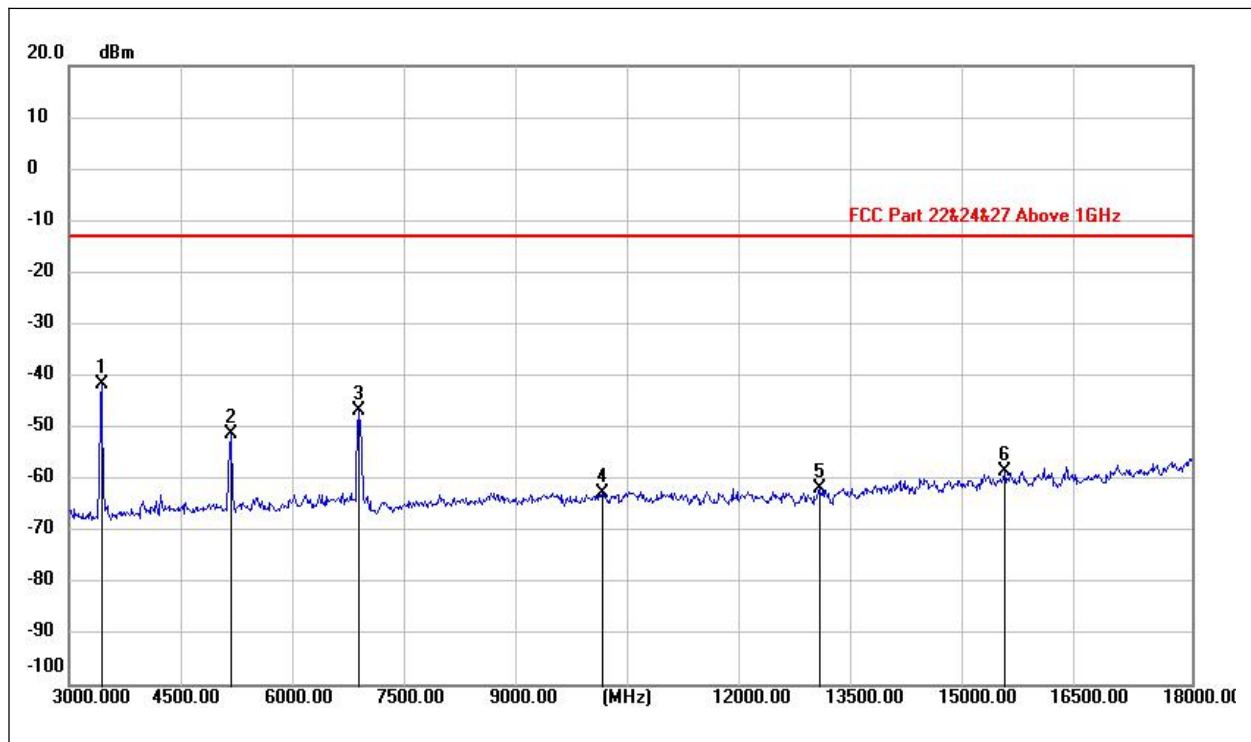
(LTE Band 4 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
39.0245	-78.60	-13.00	65.60	H	PASS
59.8588	-78.14	-13.00	65.14	H	PASS
143.8295	-80.40	-13.00	67.40	H	PASS
182.5592	-68.92	-13.00	55.92	H	PASS
411.8240	-76.24	-13.00	63.24	H	PASS
597.2234	-71.34	-13.00	58.34	H	PASS



(LTE Band 4 _QPSK _ Low Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1221.339	-52.82	-13.00	39.82	H	PASS
1438.557	-51.79	-13.00	38.79	H	PASS
1694.409	-32.66	-13.00	19.66	H	PASS
2113.098	-38.98	-13.00	25.98	H	PASS
2424.151	-41.84	-13.00	28.84	H	PASS
2661.430	-39.25	-13.00	26.25	H	PASS



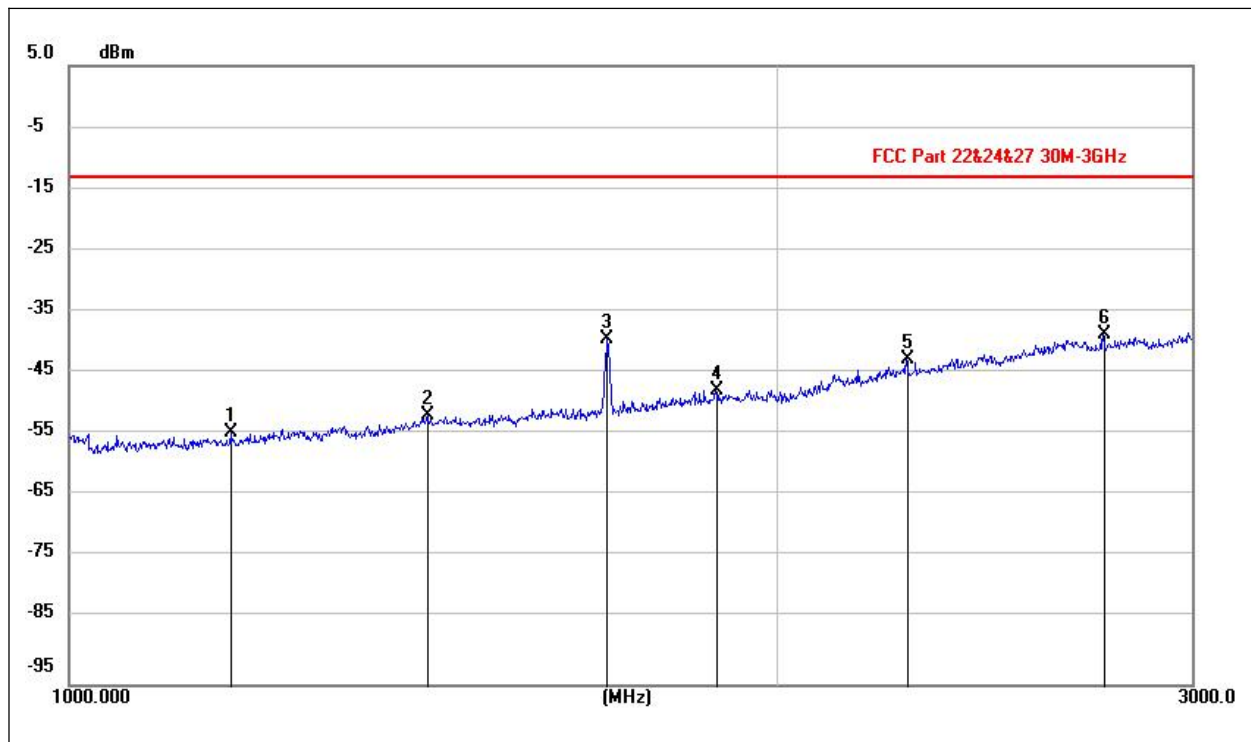
(LTE Band 4 _QPSK _ Low Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3435.000	-41.52	-13.00	28.52	H	PASS
5175.000	-51.30	-13.00	38.30	H	PASS
6870.000	-46.76	-13.00	33.76	H	PASS
10125.000	-62.91	-13.00	49.91	H	PASS
13035.000	-62.00	-13.00	49.00	H	PASS
15495.000	-58.45	-13.00	45.45	H	PASS



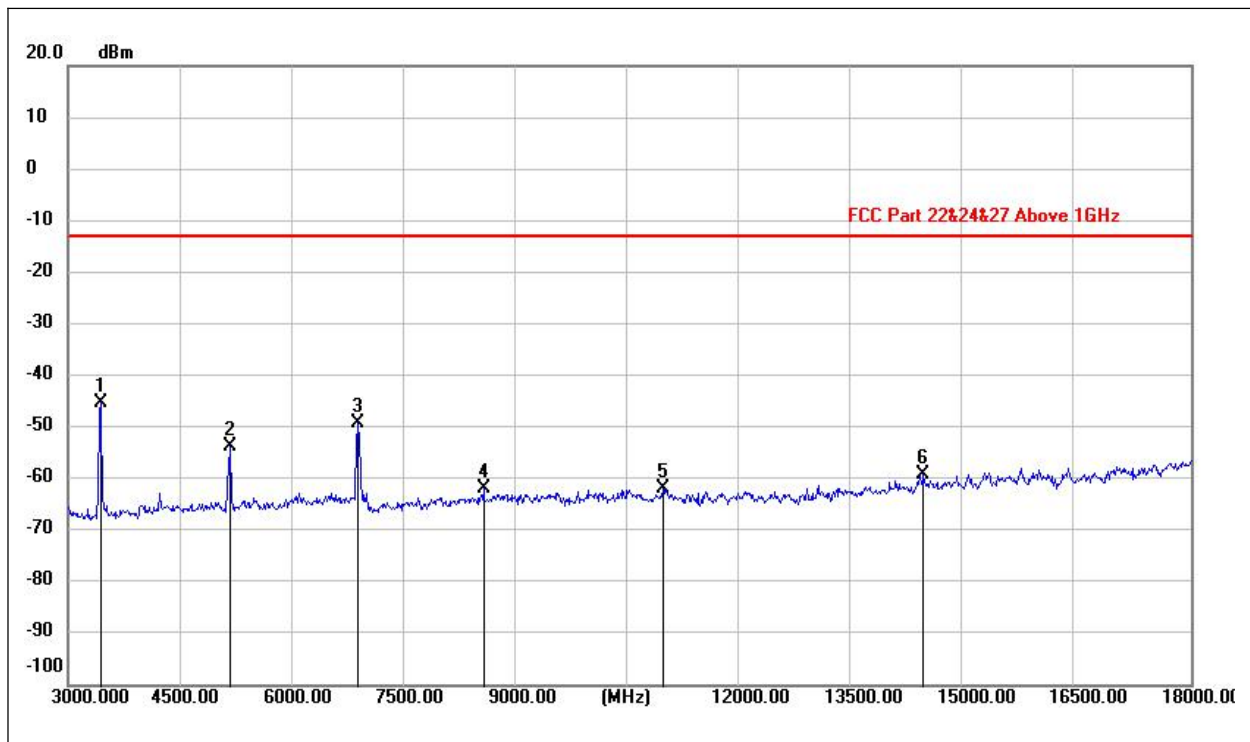
(LTE Band 4 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.7455	-56.10	-13.00	43.10	V	PASS
52.7600	-66.24	-13.00	53.24	V	PASS
71.8320	-71.14	-13.00	58.14	V	PASS
182.5592	-71.77	-13.00	58.77	V	PASS
281.0075	-79.10	-13.00	66.10	V	PASS
601.4265	-70.95	-13.00	57.95	V	PASS



(LTE Band 4 _ QPSK _ Low Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1171.401	-54.17	-13.00	41.17	V	PASS
1419.717	-51.52	-13.00	38.52	V	PASS
1692.548	-39.03	-13.00	26.03	V	PASS
1882.877	-47.48	-13.00	34.48	V	PASS
2269.512	-42.45	-13.00	29.45	V	PASS
2750.608	-38.35	-13.00	25.35	V	PASS



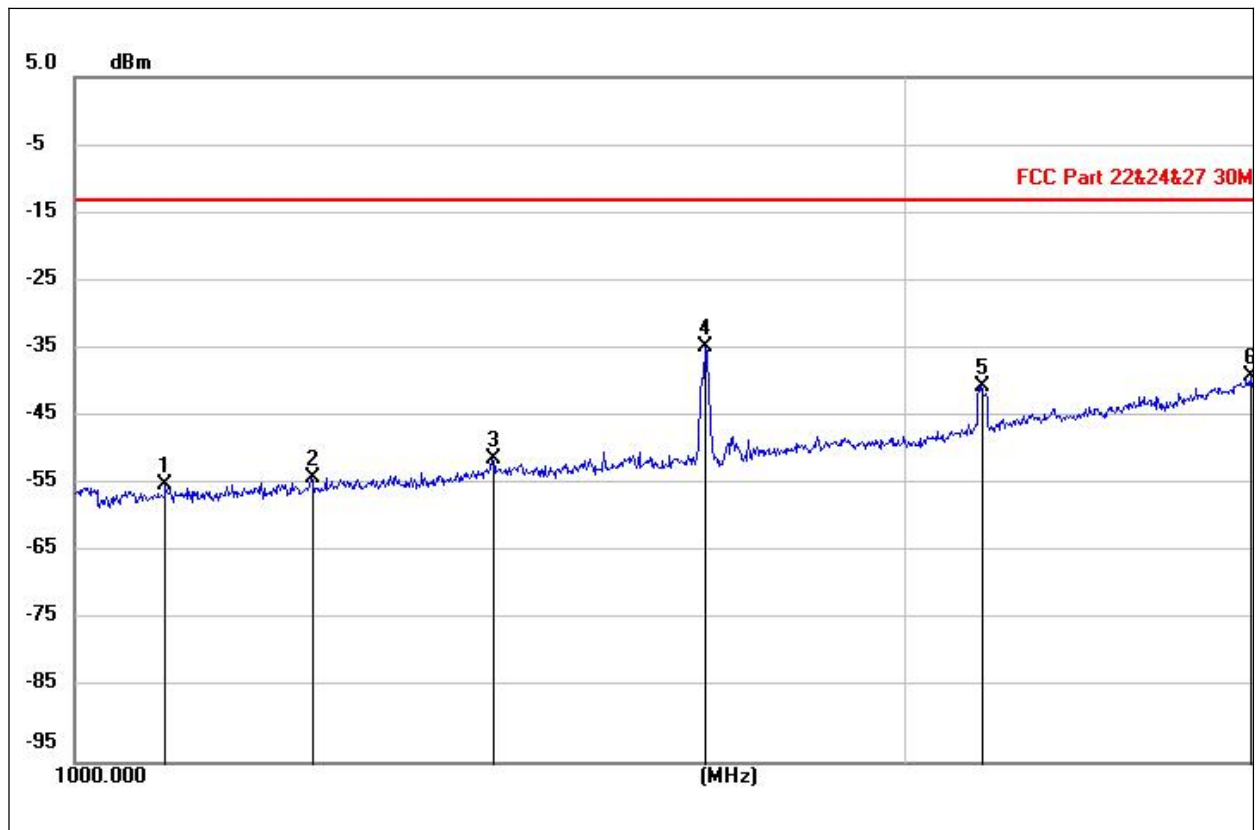
(LTE Band 4 _ QPSK _ Low Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3435.000	-45.16	-13.00	32.16	V	PASS
5175.000	-53.62	-13.00	40.62	V	PASS
6870.000	-49.13	-13.00	36.13	V	PASS
8550.000	-61.99	-13.00	48.99	V	PASS
10950.000	-61.80	-13.00	48.80	V	PASS
14430.000	-59.07	-13.00	46.07	V	PASS



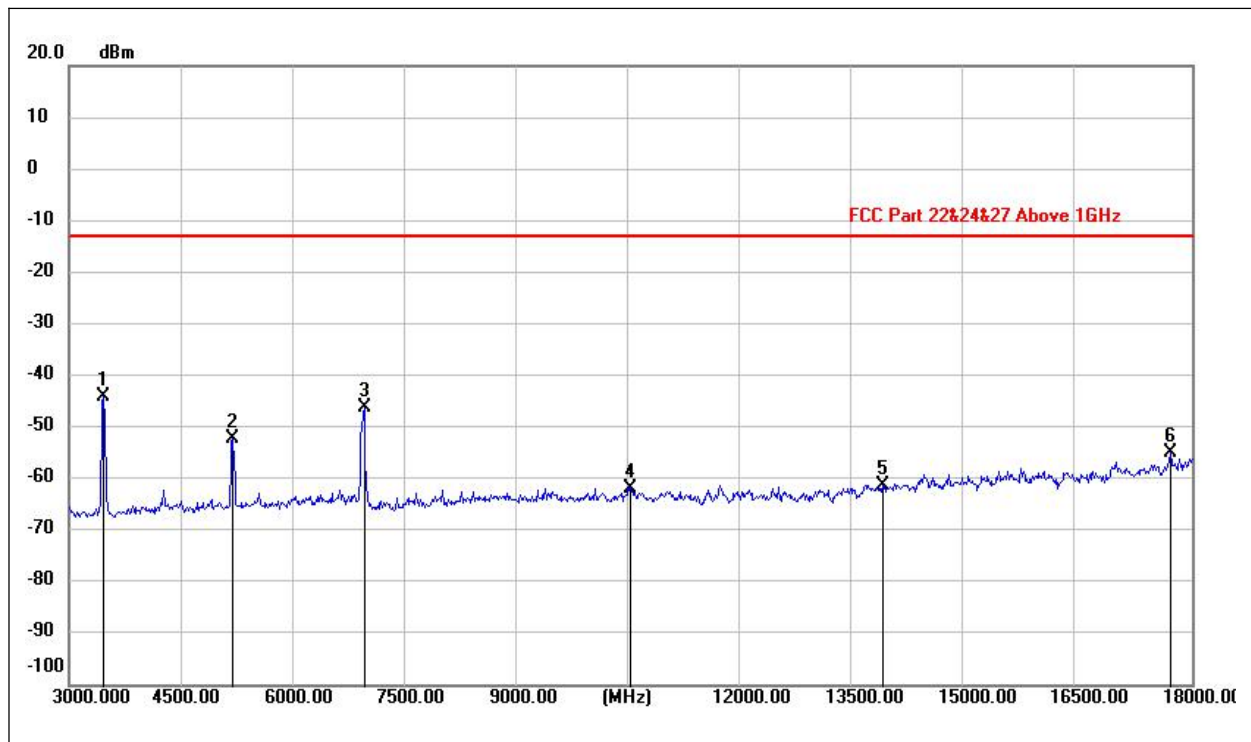
(LTE Band 4 _ QPSK_Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
39.1616	-78.51	-13.00	65.51	H	PASS
60.4919	-80.13	-13.00	67.13	H	PASS
109.0286	-84.46	-13.00	71.46	H	PASS
182.5592	-70.97	-13.00	57.97	H	PASS
396.2415	-77.65	-13.00	64.65	H	PASS
590.9737	-72.10	-13.00	59.10	H	PASS



(LTE Band 4 _ QPSK_Middle Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1078.751	-54.51	-13.00	41.51	H	PASS
1218.658	-53.40	-13.00	40.40	H	PASS
1416.601	-50.70	-13.00	37.70	H	PASS
1692.548	-34.37	-13.00	21.37	H	PASS
2129.411	-39.98	-13.00	26.98	H	PASS
2667.284	-38.71	-13.00	25.71	H	PASS



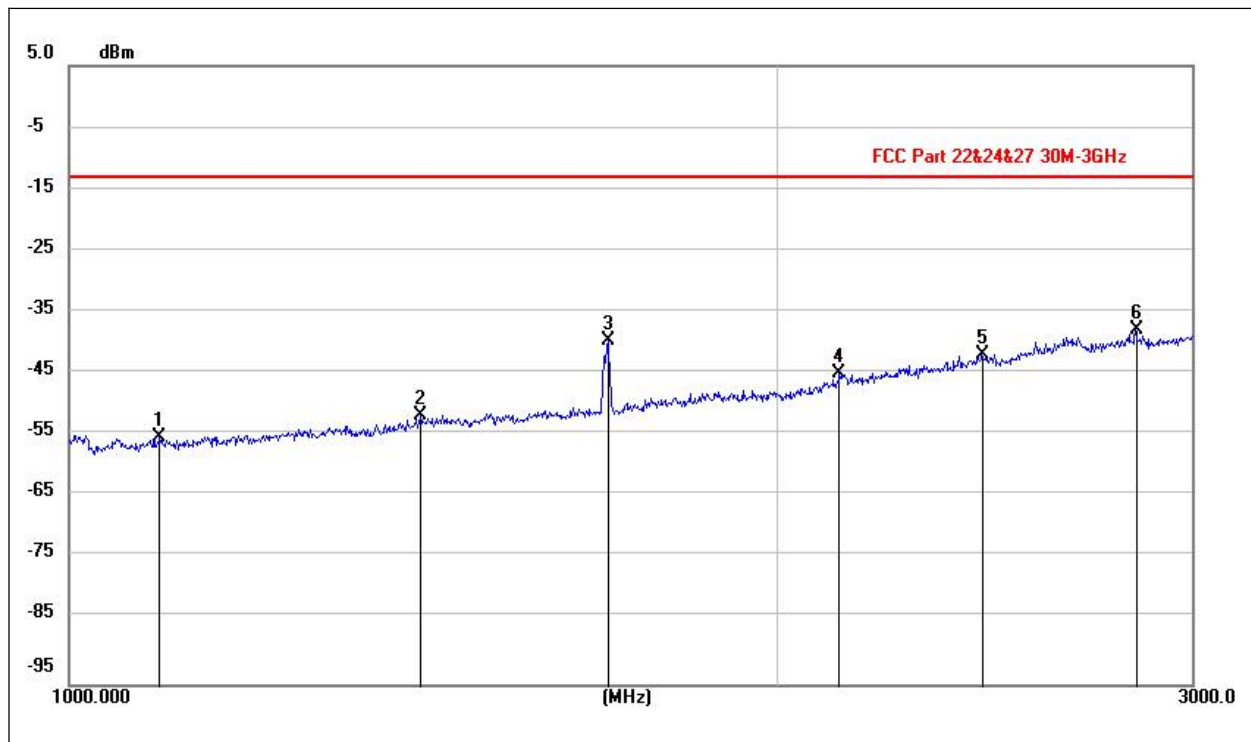
(LTE Band 4 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3465.000	-43.99	-13.00	30.99	H	PASS
5190.000	-52.32	-13.00	39.32	H	PASS
6945.000	-46.31	-13.00	33.31	H	PASS
10500.000	-61.71	-13.00	48.71	H	PASS
13875.000	-61.12	-13.00	48.12	H	PASS
17715.000	-54.95	-13.00	41.95	H	PASS



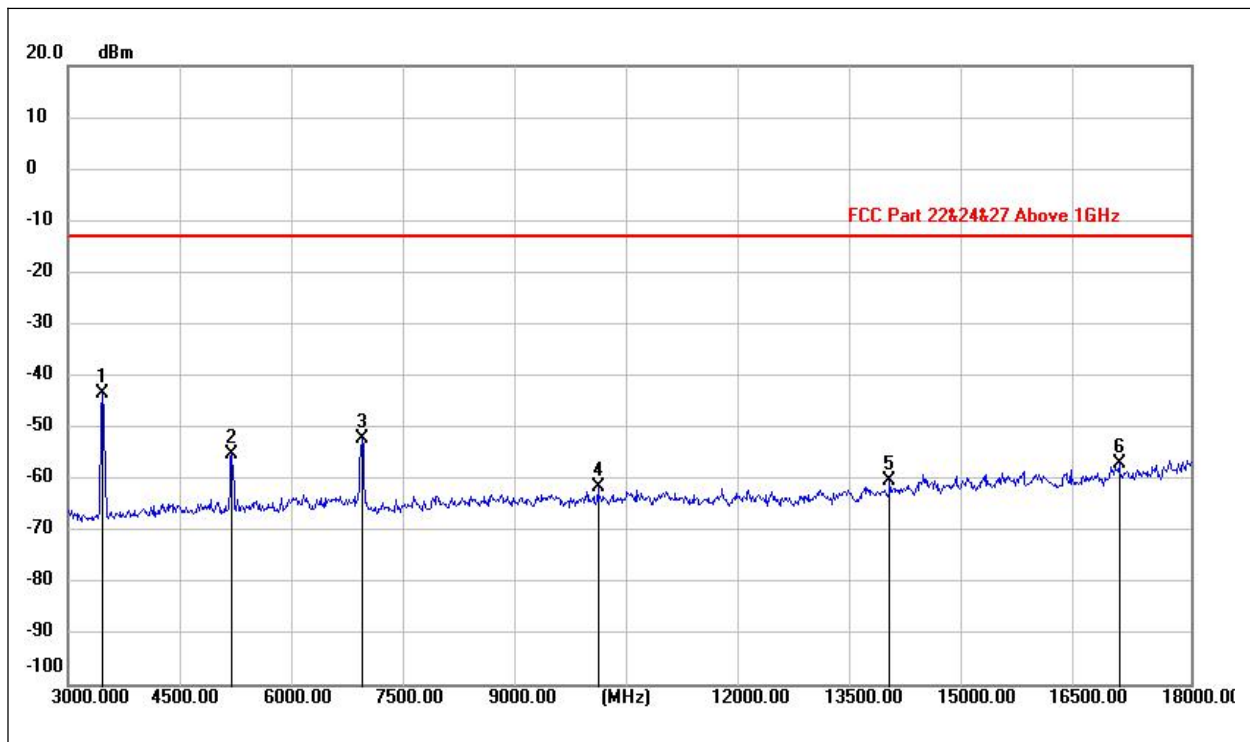
(LTE Band 4 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.6379	-56.86	-13.00	43.86	V	PASS
53.5052	-66.36	-13.00	53.36	V	PASS
80.3619	-77.40	-13.00	64.40	V	PASS
157.5589	-74.96	-13.00	61.96	V	PASS
273.2341	-78.10	-13.00	65.10	V	PASS
607.7867	-72.18	-13.00	59.18	V	PASS



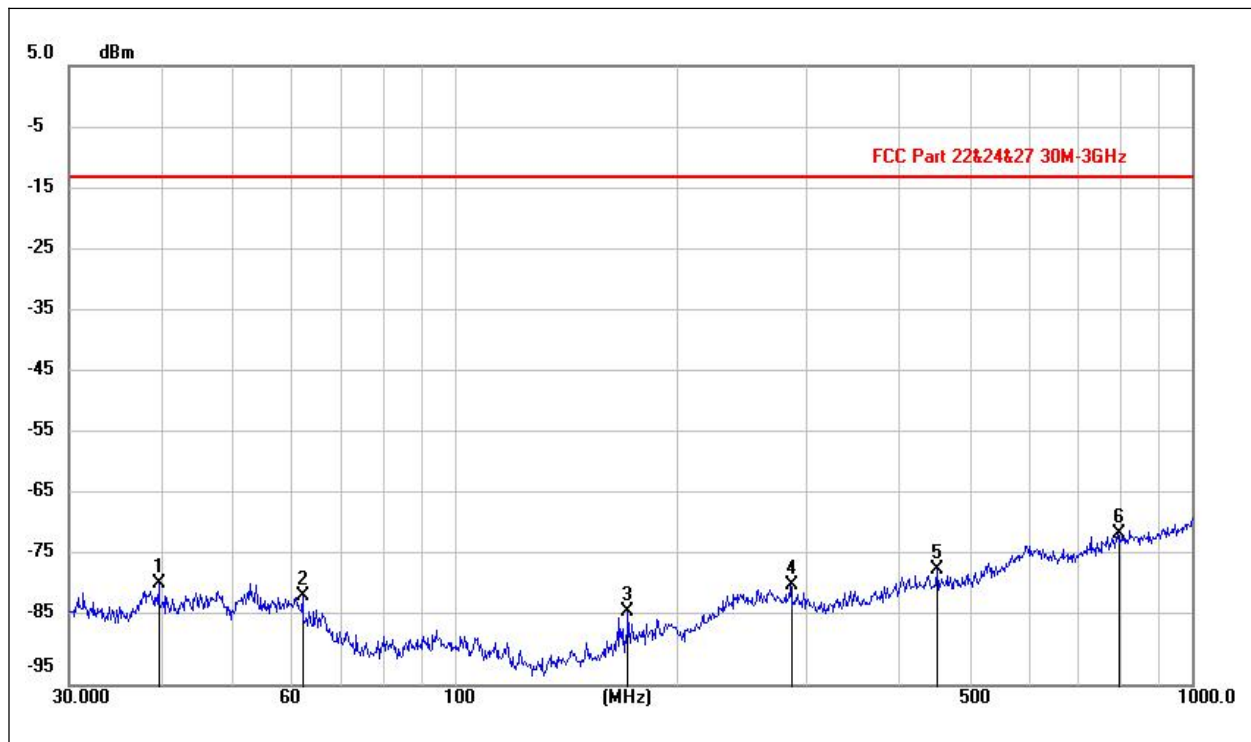
(LTE Band 4 _QPSK_ Middle Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1093.067	-54.84	-13.00	41.84	V	PASS
1410.389	-51.31	-13.00	38.31	V	PASS
1694.409	-39.37	-13.00	26.37	V	PASS
2124.737	-44.57	-13.00	31.57	V	PASS
2442.866	-41.63	-13.00	28.63	V	PASS
2839.653	-37.59	-13.00	24.59	V	PASS



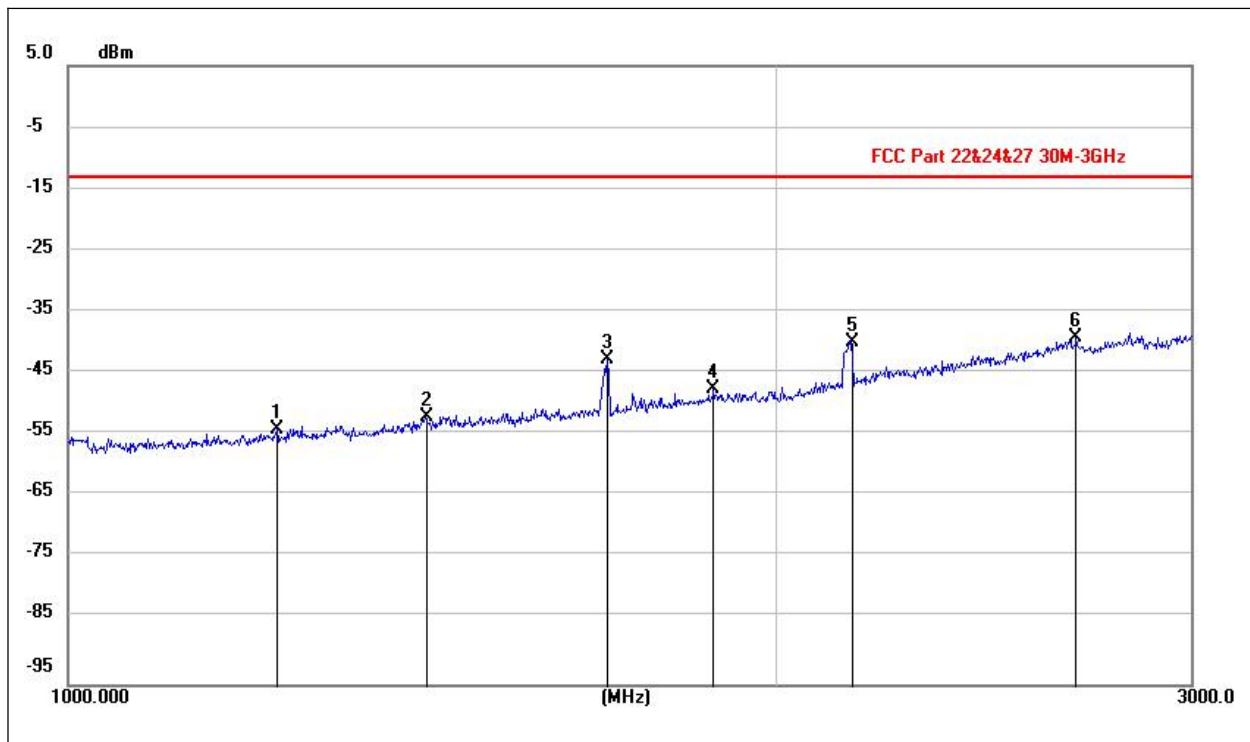
(LTE Band 4 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3465.000	-43.41	-13.00	30.41	V	PASS
5190.000	-55.33	-13.00	42.33	V	PASS
6930.000	-52.32	-13.00	39.32	V	PASS
10080.000	-61.67	-13.00	48.67	V	PASS
13980.000	-60.44	-13.00	47.44	V	PASS
17040.000	-57.01	-13.00	44.01	V	PASS



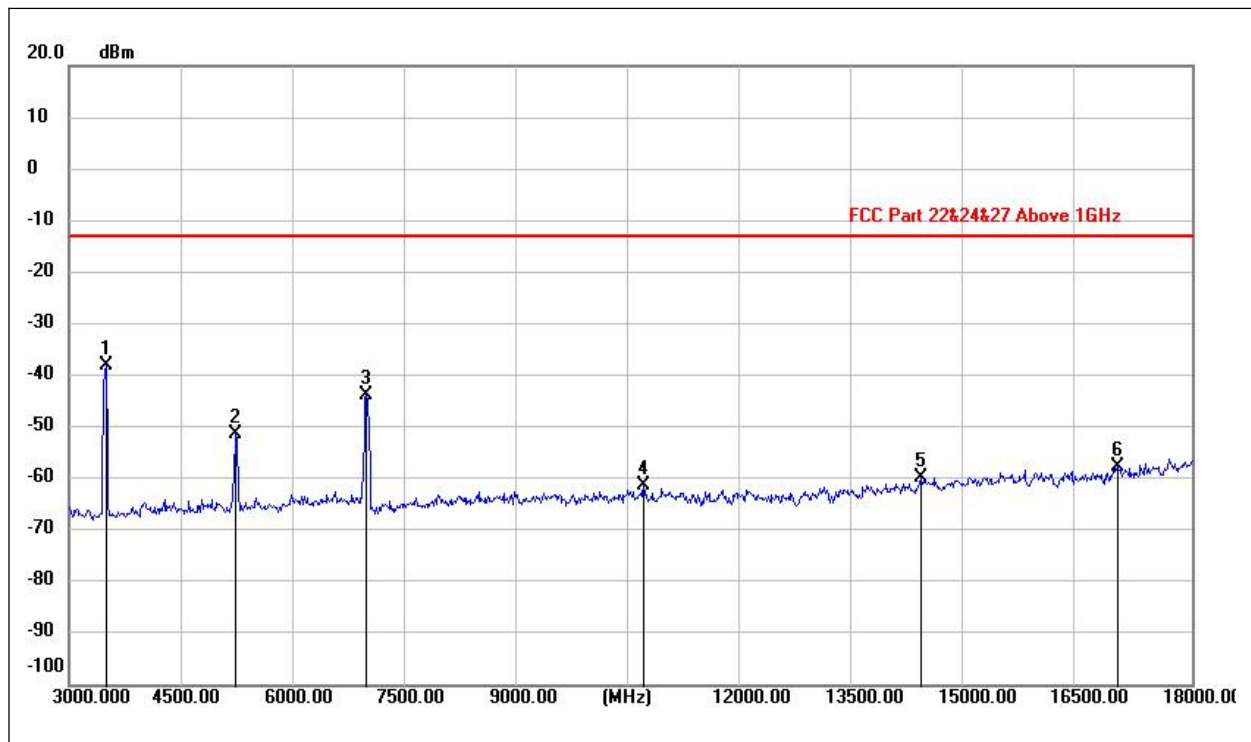
(LTE Band 4 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
39.7147	-78.66	-13.00	65.66	H	PASS
62.2128	-80.46	-13.00	67.46	H	PASS
171.9946	-83.12	-13.00	70.12	H	PASS
285.9778	-78.90	-13.00	65.90	H	PASS
451.1350	-76.26	-13.00	63.26	H	PASS
793.3960	-70.62	-13.00	57.62	H	PASS



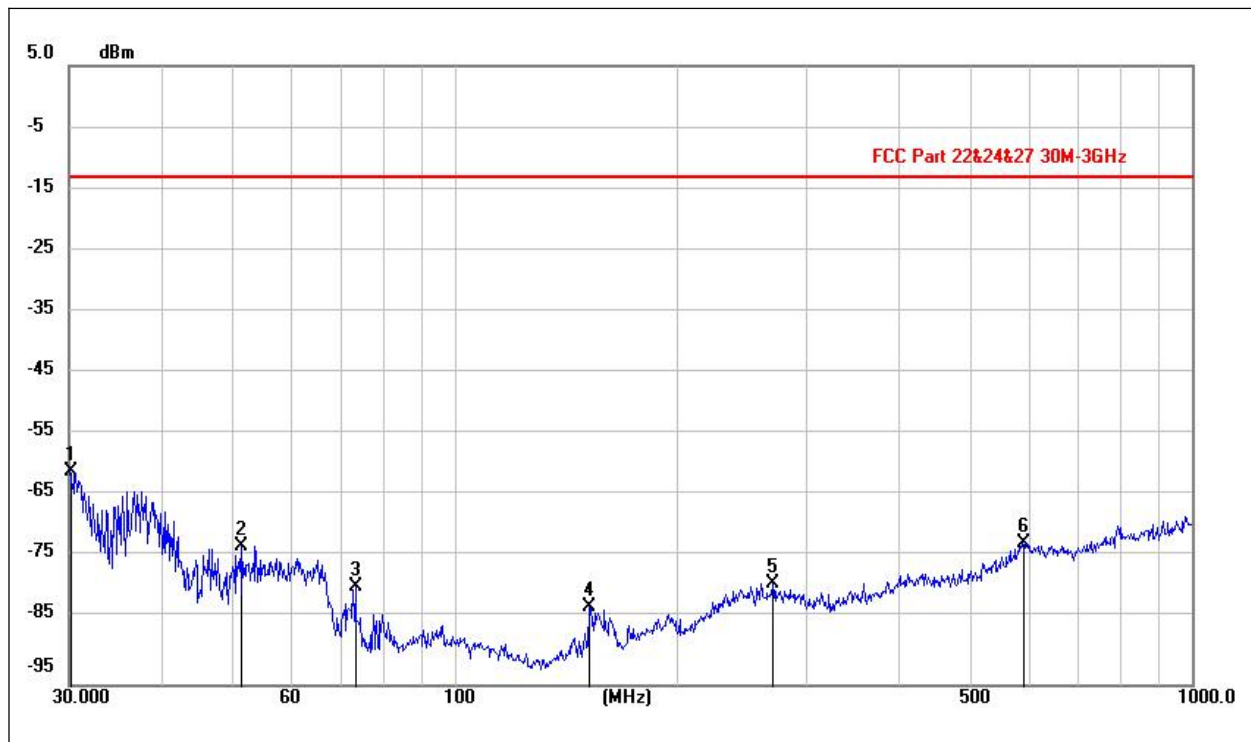
(LTE Band 4 _QPSK_ High Channel _ 1GHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1226.717	-53.76	-13.00	40.76	H	PASS
1418.158	-51.70	-13.00	38.70	H	PASS
1696.271	-42.38	-13.00	29.38	H	PASS
1880.809	-47.12	-13.00	34.12	H	PASS
2152.934	-39.51	-13.00	26.51	H	PASS
2681.976	-38.89	-13.00	25.89	H	PASS



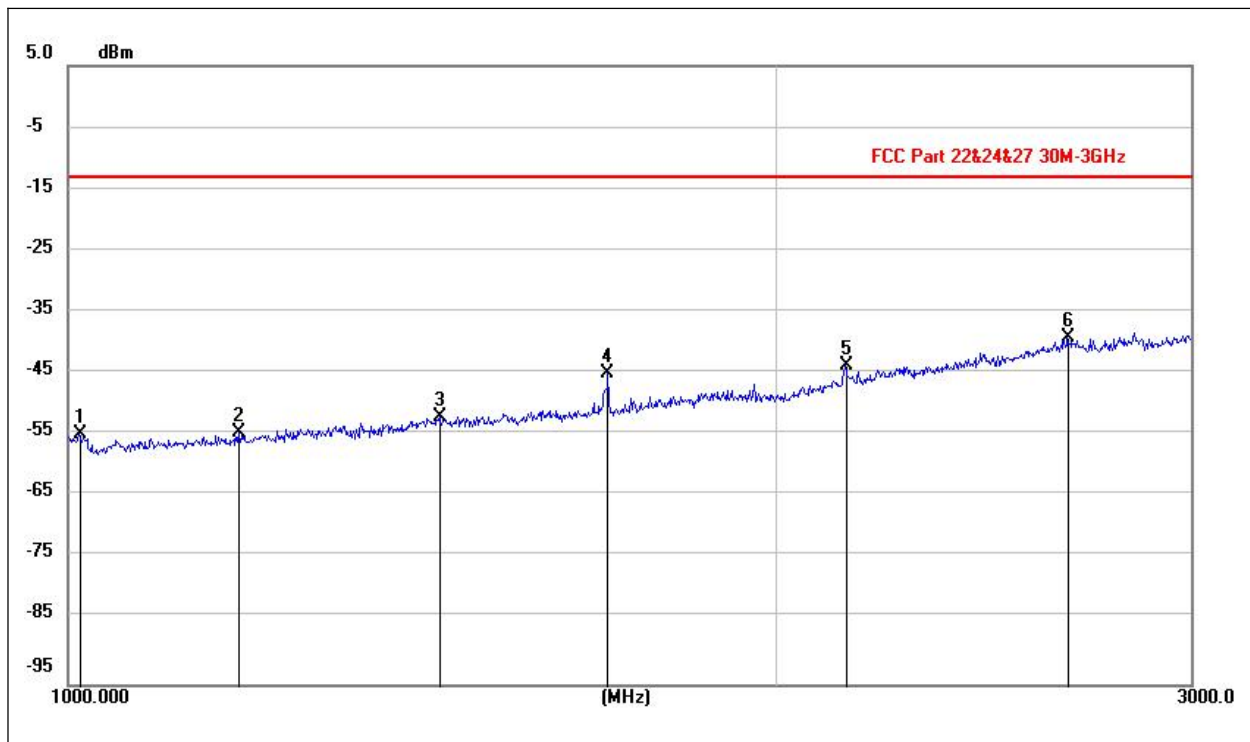
(LTE Band 4 _QPSK_ High Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3495.000	-37.93	-13.00	24.93	H	PASS
5235.000	-51.26	-13.00	38.26	H	PASS
6975.000	-43.74	-13.00	30.74	H	PASS
10680.000	-61.26	-13.00	48.26	H	PASS
14385.000	-59.66	-13.00	46.66	H	PASS
17010.000	-57.72	-13.00	44.72	H	PASS



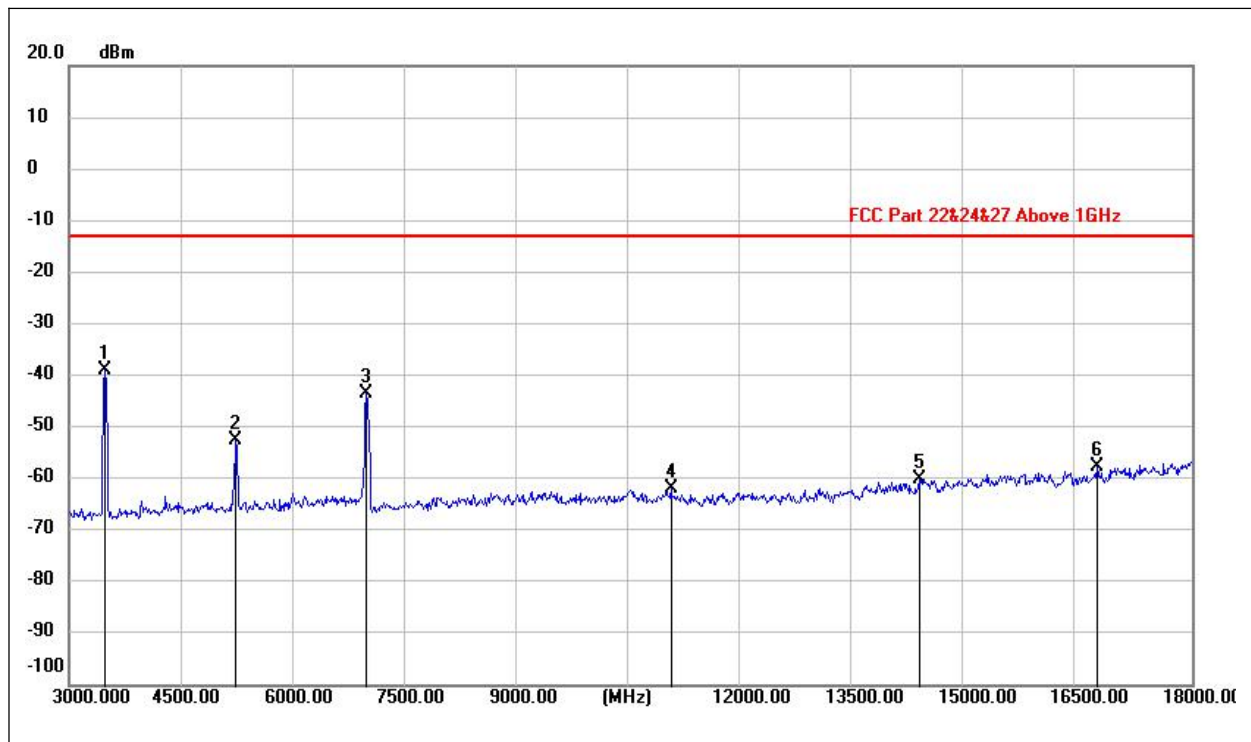
(LTE Band 4_QPSK_High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.1054	-60.49	-13.00	47.49	V	PASS
51.3005	-72.46	-13.00	59.46	V	PASS
73.3593	-79.16	-13.00	66.16	V	PASS
152.1297	-82.22	-13.00	69.22	V	PASS
270.3748	-78.58	-13.00	65.58	V	PASS
588.9051	-71.91	-13.00	58.91	V	PASS



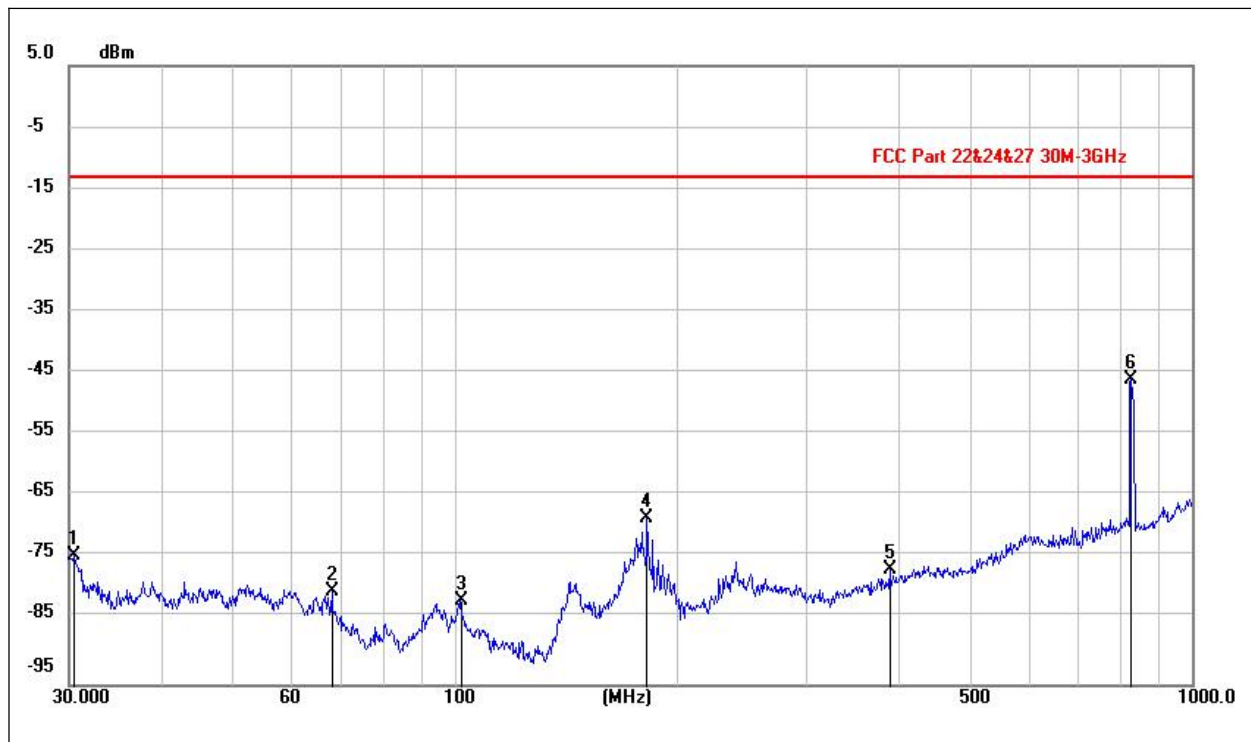
(LTE Band 4 _QPSK_ High Channel _ 1GHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1011.047	-54.40	-13.00	41.40	V	PASS
1181.741	-54.15	-13.00	41.15	V	PASS
1438.557	-51.66	-13.00	38.66	V	PASS
1696.271	-44.62	-13.00	31.62	V	PASS
2138.789	-43.40	-13.00	30.40	V	PASS
2658.508	-38.94	-13.00	25.94	V	PASS



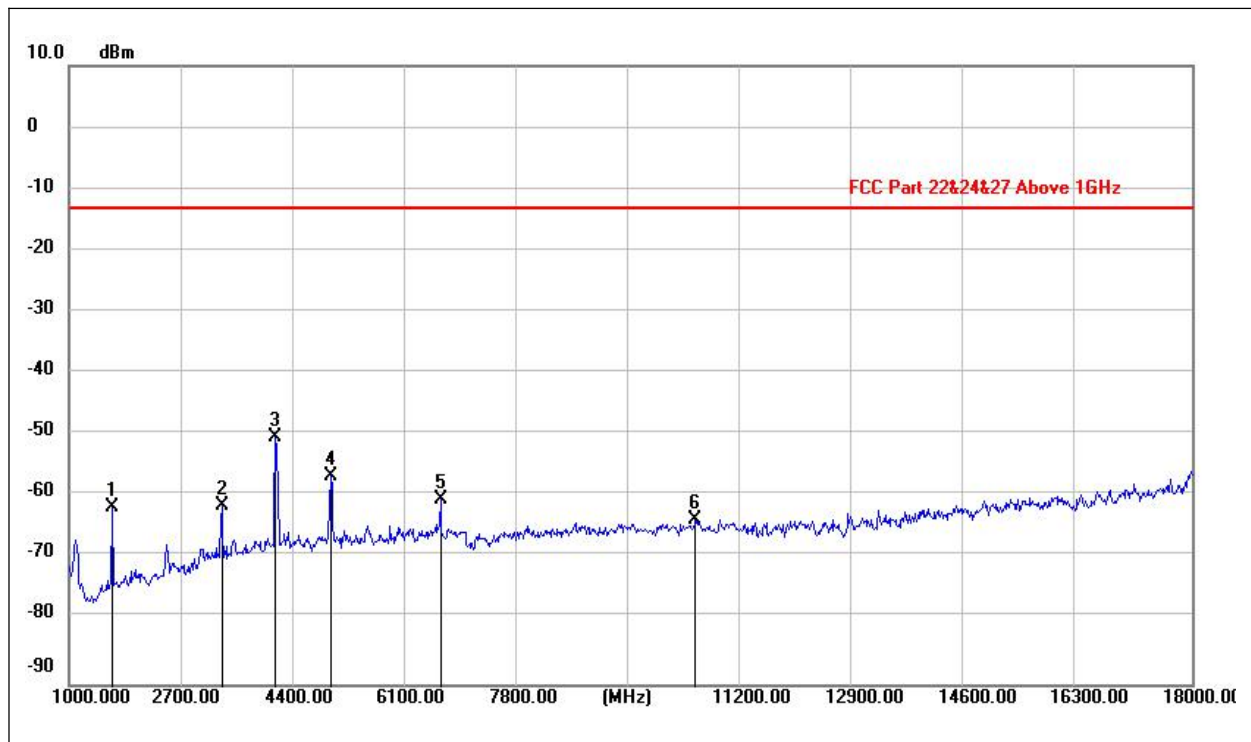
(LTE Band 4 _QPSK_ High Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
3480.000	-38.92	-13.00	25.92	V	PASS
5235.000	-52.49	-13.00	39.49	V	PASS
6975.000	-43.46	-13.00	30.46	V	PASS
11040.000	-61.98	-13.00	48.98	V	PASS
14355.000	-59.94	-13.00	46.94	V	PASS
16740.000	-57.54	-13.00	44.54	V	PASS



(LTE Band 5 _QPSK_ Low Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.5306	-74.00	-13.00	61.00	H	PASS
68.1514	-79.82	-13.00	66.82	H	PASS
102.0014	-81.37	-13.00	68.37	H	PASS
182.5592	-67.99	-13.00	54.99	H	PASS
389.3549	-76.34	-13.00	63.34	H	PASS
827.4934	-45.64	-13.00	32.64	H	PASS



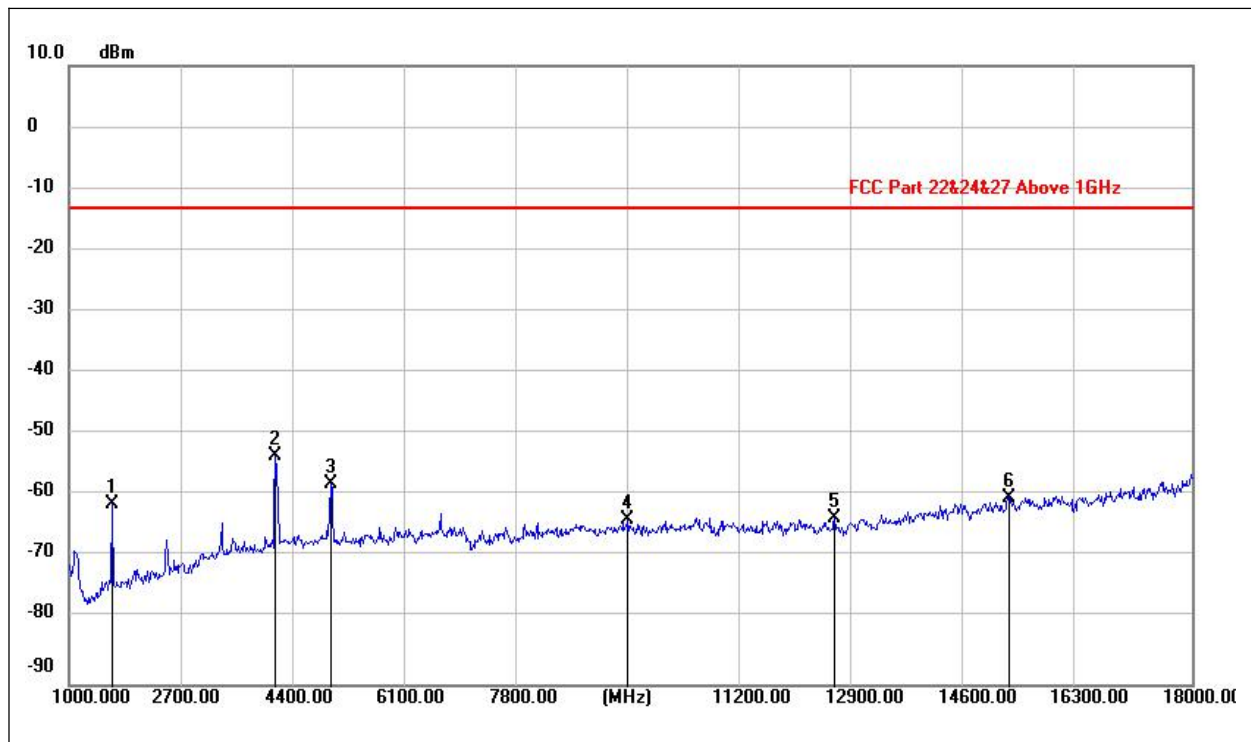
(LTE Band 5 _QPSK _ Low Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1663.000	-61.29	-13.00	48.29	H	PASS
3312.000	-60.99	-13.00	47.99	H	PASS
4128.000	-49.95	-13.00	36.95	H	PASS
4961.000	-56.26	-13.00	43.26	H	PASS
6627.000	-59.91	-13.00	46.91	H	PASS
10486.000	-63.30	-13.00	50.30	H	PASS



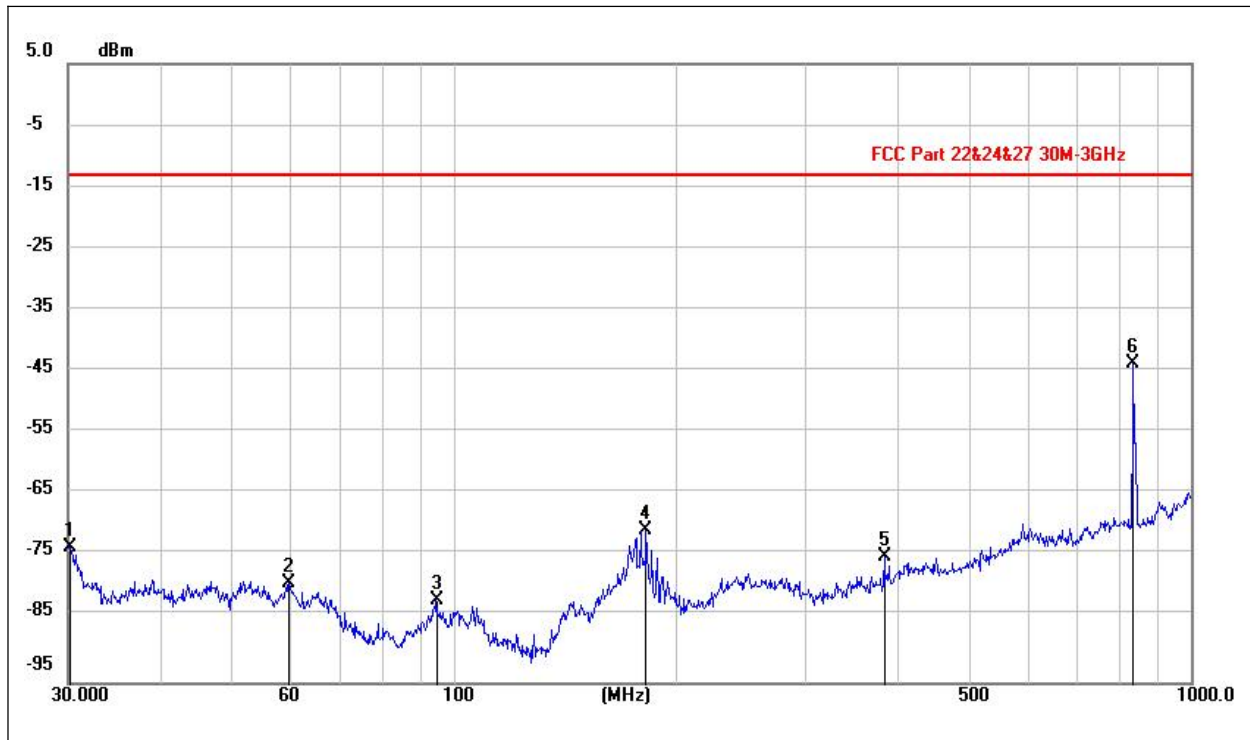
(LTE Band 5 _ QPSK _ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.4238	-55.50	-13.00	42.50	V	PASS
58.6126	-66.72	-13.00	53.72	V	PASS
80.3619	-75.02	-13.00	62.02	V	PASS
157.0074	-74.56	-13.00	61.56	V	PASS
407.5145	-76.48	-13.00	63.48	V	PASS
827.4934	-52.03	-13.00	39.03	V	PASS

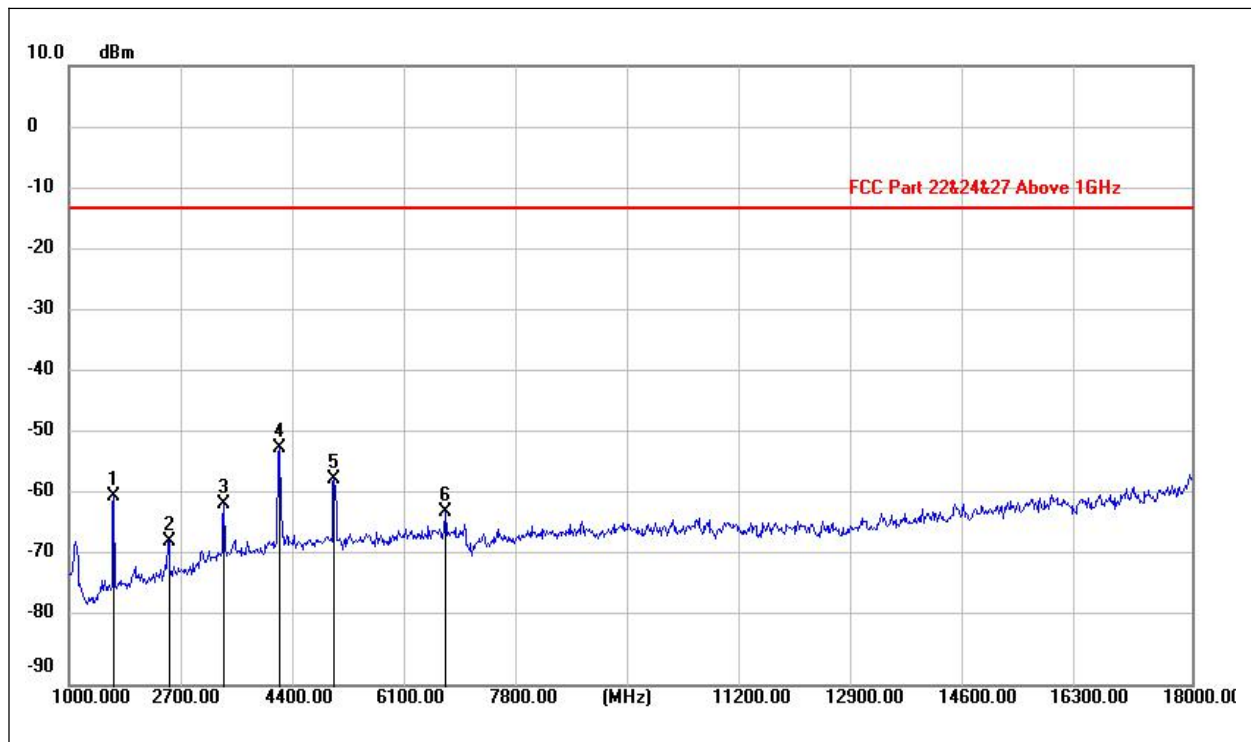


(LTE Band 5 _ QPSK _ Low Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1646.000	-60.68	-13.00	47.68	V	PASS
4128.000	-52.88	-13.00	39.88	V	PASS
4961.000	-57.48	-13.00	44.48	V	PASS
9466.000	-63.23	-13.00	50.23	V	PASS
12594.000	-63.00	-13.00	50.00	V	PASS
15229.000	-59.60	-13.00	46.60	V	PASS



Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.2111	-72.89	-13.00	59.89	H	PASS
59.8588	-78.67	-13.00	65.67	H	PASS
94.7601	-81.51	-13.00	68.51	H	PASS
182.5592	-70.13	-13.00	57.13	H	PASS
383.9318	-74.58	-13.00	61.58	H	PASS
836.2443	-43.35	-13.00	30.35	H	PASS



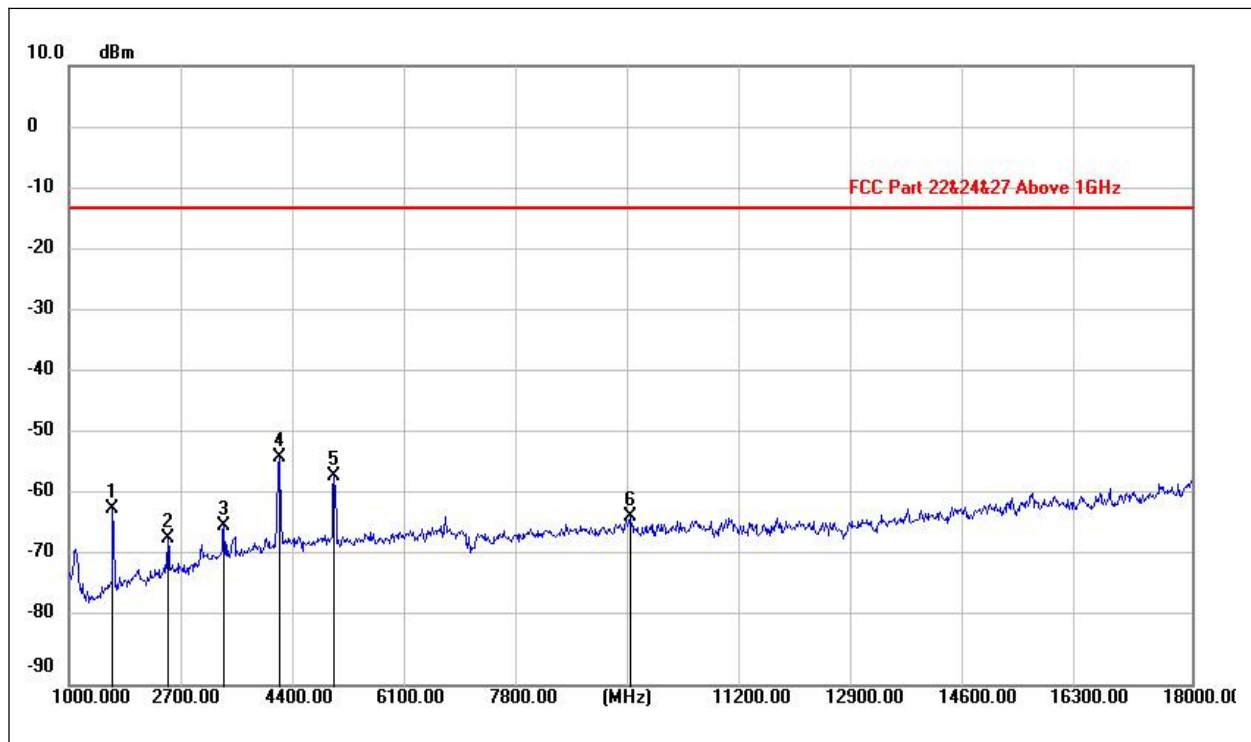
(LTE Band 5 _ QPSK_Middle Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1680.000	-59.41	-13.00	46.41	H	PASS
2513.000	-66.68	-13.00	53.68	H	PASS
3346.000	-60.75	-13.00	47.75	H	PASS
4196.000	-51.75	-13.00	38.75	H	PASS
5012.000	-56.66	-13.00	43.66	H	PASS
6695.000	-62.04	-13.00	49.04	H	PASS



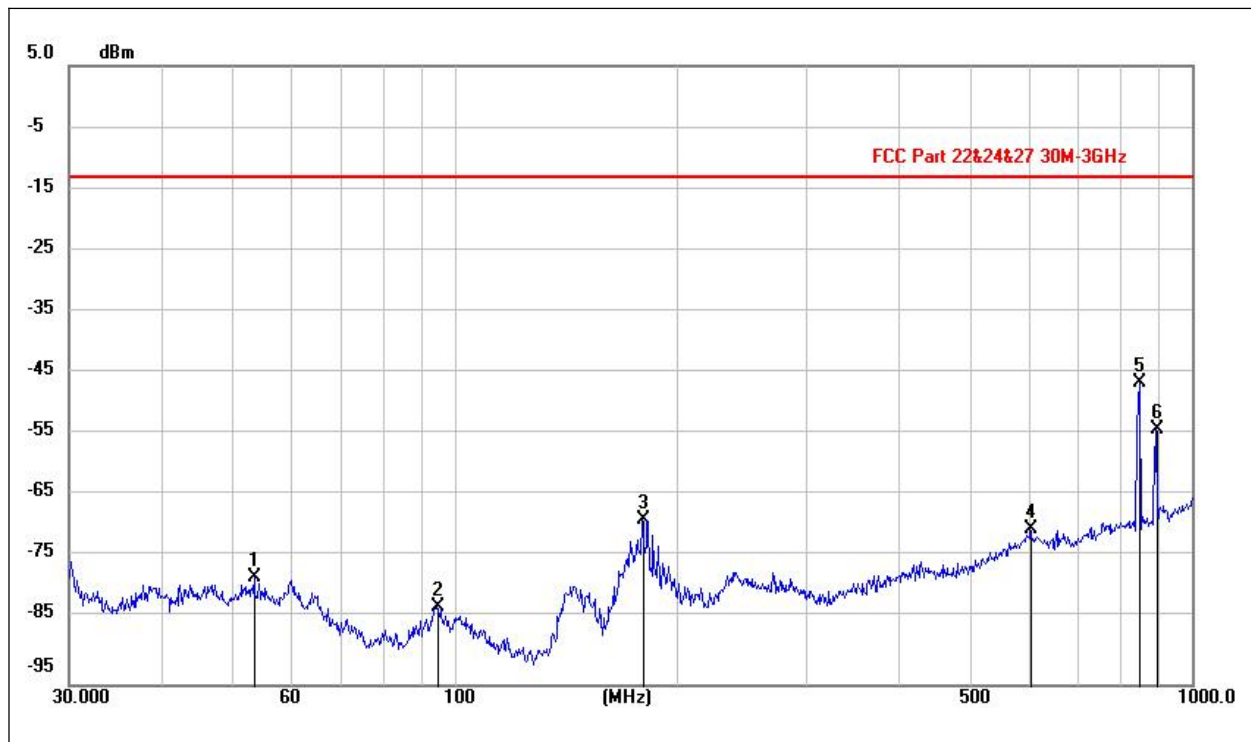
(LTE Band 5 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.2111	-55.28	-13.00	42.28	V	PASS
59.6493	-66.67	-13.00	53.67	V	PASS
80.3619	-75.44	-13.00	62.44	V	PASS
179.3864	-74.37	-13.00	61.37	V	PASS
443.2943	-75.13	-13.00	62.13	V	PASS
836.2443	-50.71	-13.00	37.71	V	PASS



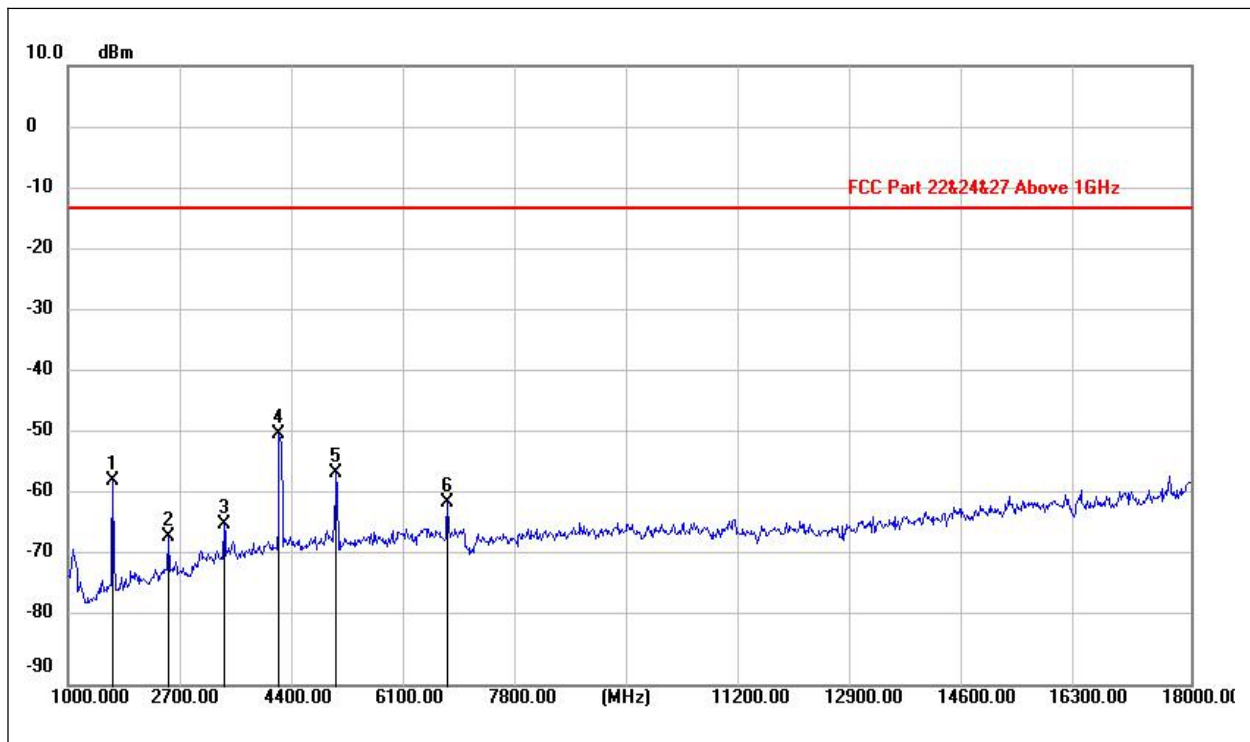
(LTE Band 5 _QPSK_ Middle Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1663.000	-61.59	-13.00	48.59	V	PASS
2496.000	-66.25	-13.00	53.25	V	PASS
3346.000	-64.16	-13.00	51.16	V	PASS
4196.000	-53.12	-13.00	40.12	V	PASS
5012.000	-56.16	-13.00	43.16	V	PASS
9500.000	-62.73	-13.00	49.73	V	PASS



(LTE Band 5 _QPSK_ High Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
53.5052	-77.59	-13.00	64.59	H	PASS
94.7601	-82.37	-13.00	69.37	H	PASS
180.0165	-68.18	-13.00	55.18	H	PASS
603.5392	-69.86	-13.00	56.86	H	PASS
848.0563	-46.07	-13.00	33.07	H	PASS
893.8567	-53.63	-13.00	40.63	H	PASS



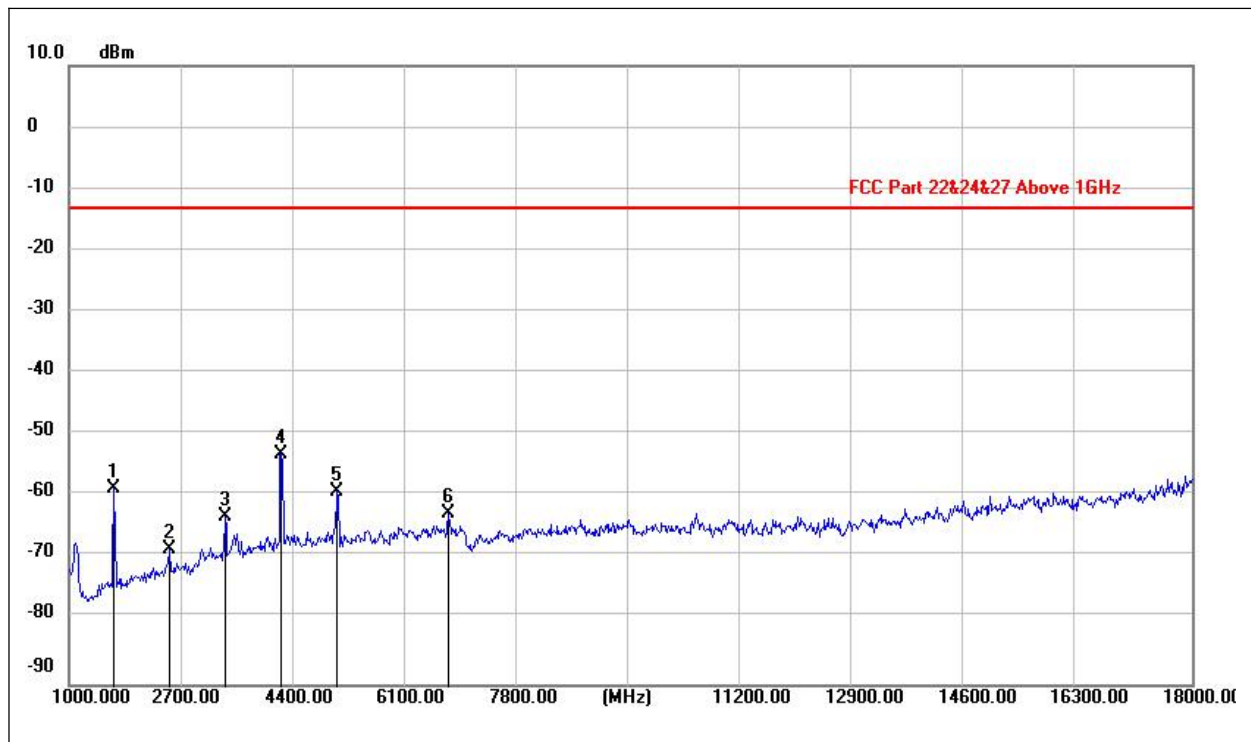
(LTE Band 5 _QPSK_ High Channel _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1680.000	-56.96	-13.00	43.96	H	PASS
2530.000	-65.98	-13.00	52.98	H	PASS
3363.000	-64.04	-13.00	51.04	H	PASS
4196.000	-49.37	-13.00	36.37	H	PASS
5063.000	-55.76	-13.00	42.76	H	PASS
6746.000	-60.51	-13.00	47.51	H	PASS



(LTE Band 5 _QPSK_ High Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.2111	-55.28	-13.00	42.28	V	PASS
59.8588	-66.04	-13.00	53.04	V	PASS
182.5592	-69.85	-13.00	56.85	V	PASS
443.2943	-73.58	-13.00	60.58	V	PASS
851.0353	-50.53	-13.00	37.53	V	PASS
893.8567	-64.34	-13.00	51.34	V	PASS

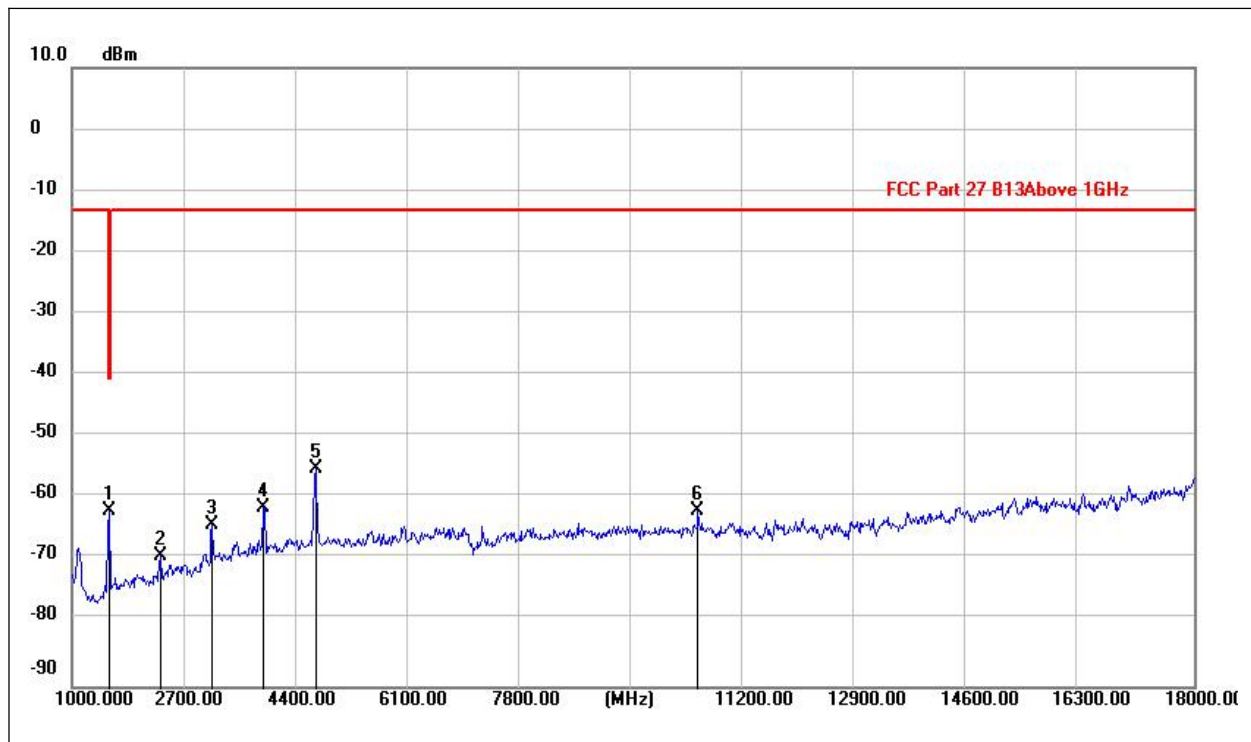


(LTE Band 5 _QPSK_ High Channel _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1680.000	-58.12	-13.00	45.12	V	PASS
2530.000	-67.97	-13.00	54.97	V	PASS
3363.000	-62.65	-13.00	49.65	V	PASS
4213.000	-52.70	-13.00	39.70	V	PASS
5063.000	-58.63	-13.00	45.63	V	PASS
6746.000	-62.34	-13.00	49.34	V	PASS

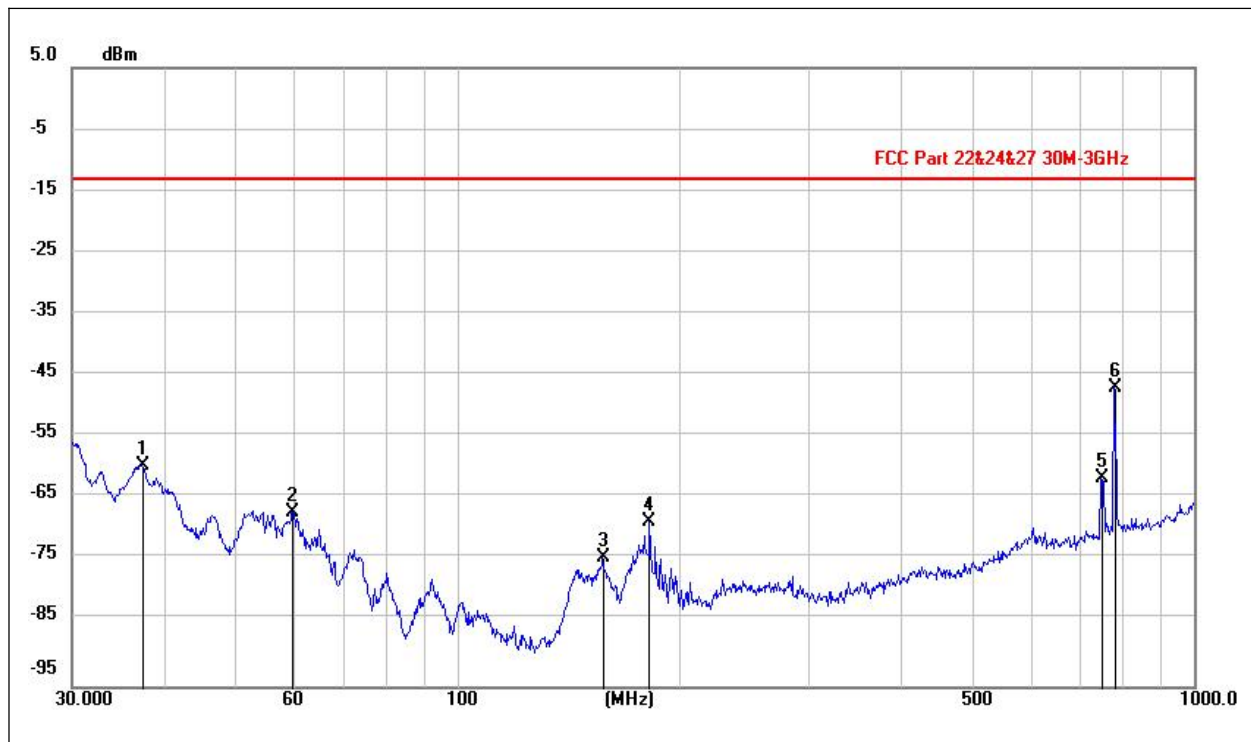


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
30.1054	-70.79	-13.00	57.79	H	PASS
67.9129	-80.44	-13.00	67.44	H	PASS
182.5592	-68.06	-13.00	55.06	H	PASS
383.9318	-72.58	-13.00	59.58	H	PASS
752.7432	-49.44	-13.00	36.44	H	PASS
779.6068	-35.83	-13.00	22.83	H	PASS



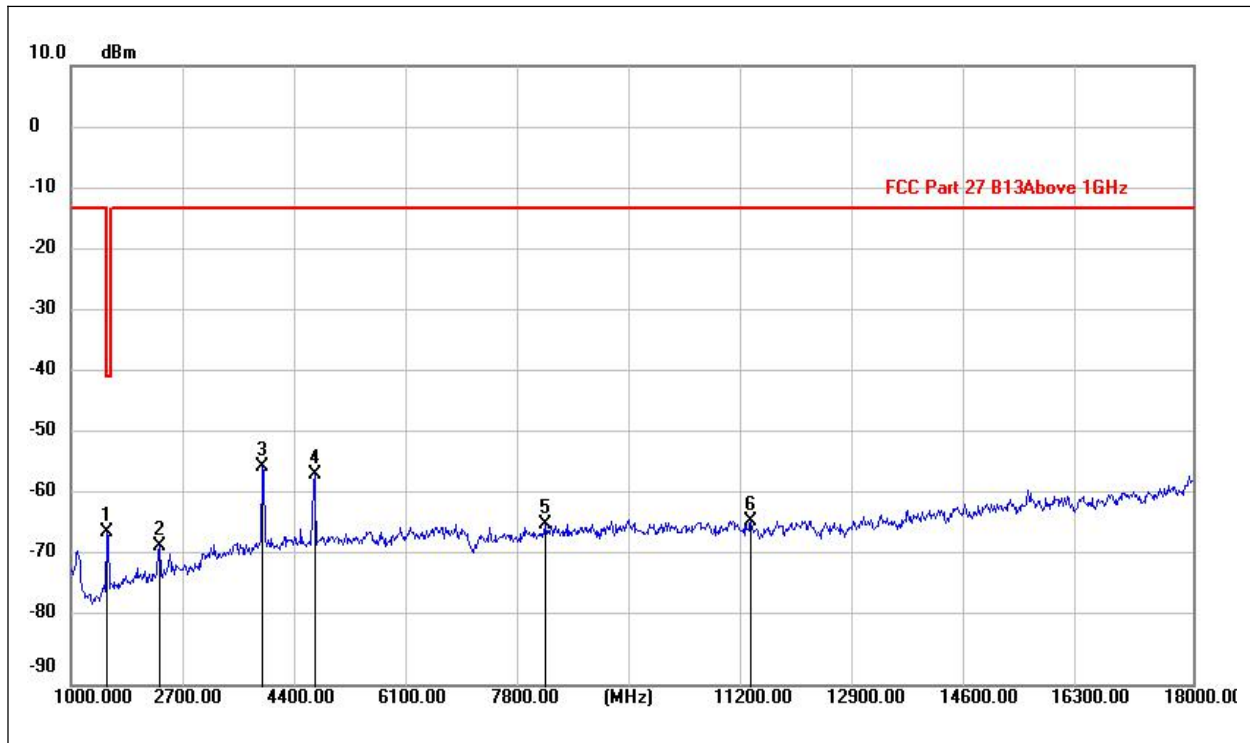
(LTE Band 13 _QPSK _ 1GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1561.000	-61.40	-13.00	48.40	H	PASS
2343.000	-68.70	-13.00	55.70	H	PASS
3125.000	-63.75	-13.00	50.75	H	PASS
3907.000	-60.88	-13.00	47.88	H	PASS
4689.000	-54.72	-13.00	41.72	H	PASS
10486.000	-61.46	-13.00	48.46	H	PASS



(LTE Band 13 _QPSK _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
37.2855	-59.13	-13.00	-46.13	V	PASS
59.8588	-66.62	-13.00	-53.62	V	PASS
157.5589	-74.13	-13.00	-61.13	V	PASS
182.5592	-68.35	-13.00	-55.35	V	PASS
747.4826	-61.26	-13.00	-48.26	V	PASS
779.6068	-46.56	-13.00	-33.56	V	PASS



(LTE Band 13 _QPSK _ 1GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Verdict
1544.000	-65.26	-13.00	-52.26	V	PASS
2343.000	-67.50	-13.00	-54.50	V	PASS
3890.000	-54.68	-13.00	-41.68	V	PASS
4689.000	-55.96	-13.00	-42.96	V	PASS
8191.000	-63.96	-13.00	-50.96	V	PASS
11302.000	-63.56	-13.00	-50.56	V	PASS

Note: The high, medium and low channel of LTE BAND13 are the same.

Annex A Test Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for test performed on the EUT as specified in CISPR 16-1-2:

Test items	Uncertainty
Output Power	± 2.22 dB
Bandwidth	$\pm 5\%$
Conducted Spurious Emission	± 2.77 dB
Band Edge	± 2.77 dB
Equivalent Isotropic Radiated Power	± 2.22 dB
Radiated Spurious Emissions	± 6 dB

This uncertainty represent an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$



Annex B Testing Laboratory Information

1. Identification of the Responsible Testing Laboratory

Laboratory Name:	Kehu-Morlab Test Laboratory
Laboratory Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China
Telephone:	+86-0592-5612050
Facsimile:	+86-0592-5612095

2. Identification of the Responsible Testing Location

Name:	Kehu-Morlab Test Laboratory
Address:	Unit 101, No.1732 Gangzhong Road, Xiamen Area, Pilot Free Trade Zone (Fujian) P.R. China

3. Accreditation Certificate

Accredited Testing Laboratory:	The FCC designation number is CN1249. (Kehu-Morlab Test Laboratory)
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4. Test Equipments Utilized

4.1 Conducted Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Power Splitter	1723	WA1506A	Weinschel	2019.01.08	2020.01.07
Power Sensor	MY56410006	U2021XA	Keysight	2019.01.03	2020.01.02
Attenuator 1	N/A	10dB	Woken	2019.01.04	2020.01.03
MXA Signal Analyzer	MY53421845	N9020A	Keysight	2019.01.04	2020.01.03
Wideband Radio Communication Tester	102592	CMW500	R&S	2019.01.08	2020.01.07
RF cable (30MHz-26.5GHz)	RF01	N/A	Morlab	2019.01.04	2020.01.03
Coaxial cable	RF02	N/A	Morlab	2019.01.04	2020.01.03
SMA connector	RF03	N/A	Xingbo	N/A	N/A
Temperature Chamber	MZ9371	MZ-PRHT 80	Mingzhi	2019.01.05	2020.01.04
DC power source	170329048	RPS6003 D-2	REK	2019.01.22	2020.01.21



Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Software Version: MW 2.0.0.0					

NOTE: RF cable (30MHz-26.5GHz), Annual internal calibration.

4.2 List of Software Used

No.	Model	Version Number	Producer	Test Item
1	EMC32	V10.00.00	Rode&Schwarz	RSE

4.3 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Cal. Due
Anechoic Chamber	N/A	9m*6m*6m	ETS-Lindgren	2017.07.21	2020.07.20
Signal Analyzer	101294	FSV40	R&S	2019.01.04	2020.01.03
Active Ring Antenna	FMZB 1513 #269	FMZB 1513	Schwarzbeck	2019.01.12	2020.01.11
Linear Log Periodic Broad Band Antenna	949	VULB 9163	Schwarzbeck	2018.09.25	2021.09.24
Ultra-Wideband Horn Antenna	102615	HF907	R&S	2019.01.19	2020.01.18
Steatite Antennas	17868	QSH-SL-18-2 6-S-20	Seibersdorf	2019.01.12	2020.01.11
Ultra-Wideband Horn Antenna	17989	QSH-26-40	Schwarzbeck	2019.01.12	2020.01.11
RF Switch and Control Platform	N/A	RSC	CDSI	N/A	N/A
Coaxial cable (N male) (9kHz -3GHz)	EMC02	N/A	Morlab	2019.01.04	2020.01.03
Coaxial cable (N male) (9kHz -3GHz)	EMC03	N/A	Morlab	2019.01.04	2020.01.03
Coaxial cable (N male) (1GHz-26.5GHz)	EMC04	N/A	Morlab	2019.01.04	2020.01.03



Coaxial cable (N male) (1GHz-26.5GHz)	EMC05	N/A	Morlab	2019.01.04	2020.01.03
Pre-amplifier (1GHz-18GHz)	8810011	PAP-1G18	CDSI	2019.01.04	2020.01.03
Pre-amplifier (18GHz-40GHz)	17021-17024	PAP-1840	CDSI	2018.07.05	2019.07.04
Band stop Filter	EMC11	BJF814/849- 60	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC12	BJF1710/178 5-60	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC13	BJF1847.5/1 922.5-60	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC14	BJF697/752- 40	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC15	BJF770/815- 50	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC16	BJF2494/257 2-50	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC17	BJF2570/262 0-50	CDSI	2019.01.04	2020.01.03
Band stop Filter	EMC18	BJF2620/269 0-50	CDSI	2019.01.04	2020.01.03
High Pass Filter	EMC21	HFP-1.0/18G -60	CDSI	2019.01.04	2020.01.03
High Pass Filter	EMC22	HFP-3.0/18G -60	CDSI	2019.01.04	2020.01.03
NOTE: Coaxial cable and Filter, annual internal calibration.					

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