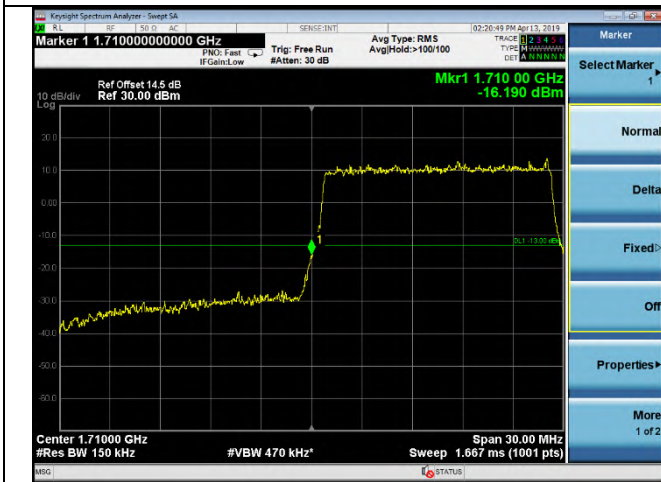


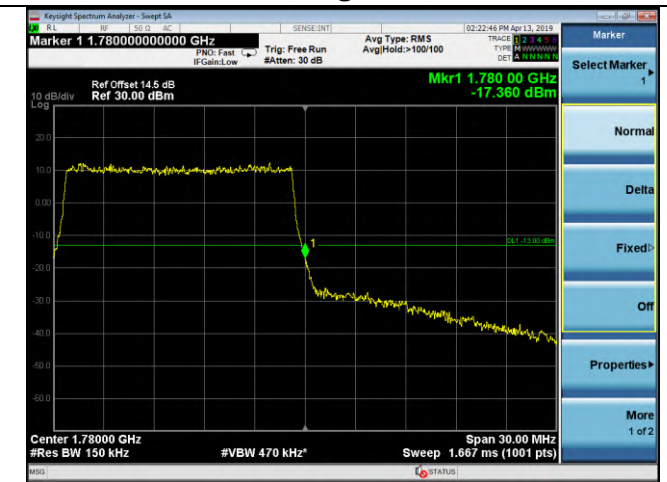


LTE Band 66

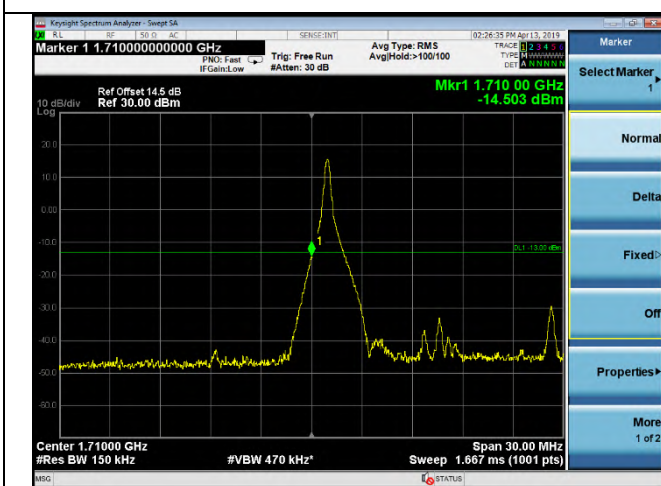
15MHz / 16QAM / Low Channel / Full RB



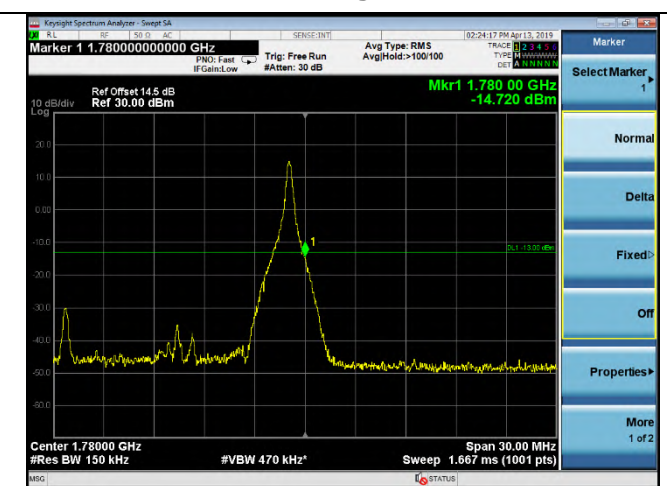
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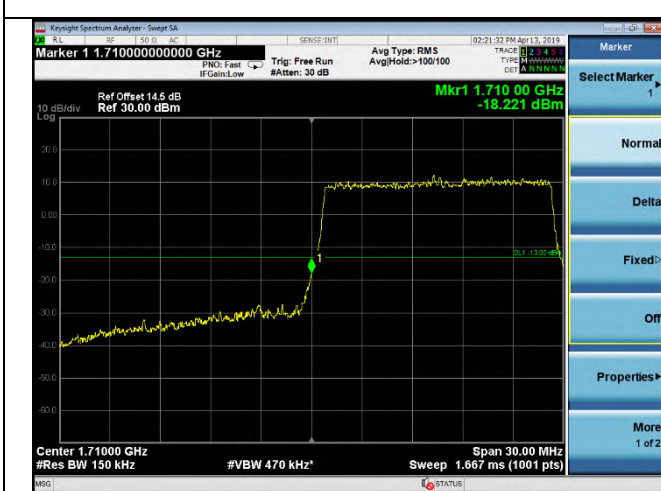
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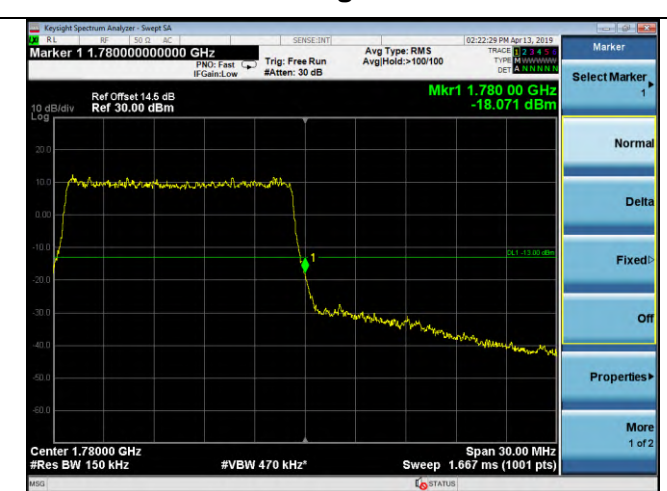
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15MHz / 64QAM / Low Channel / Full RB



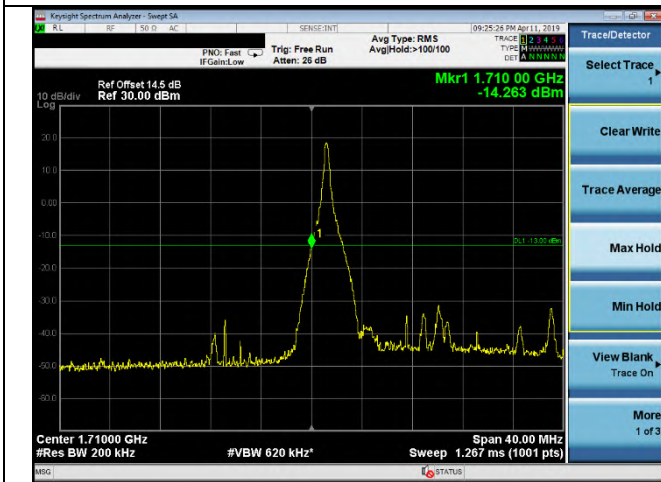
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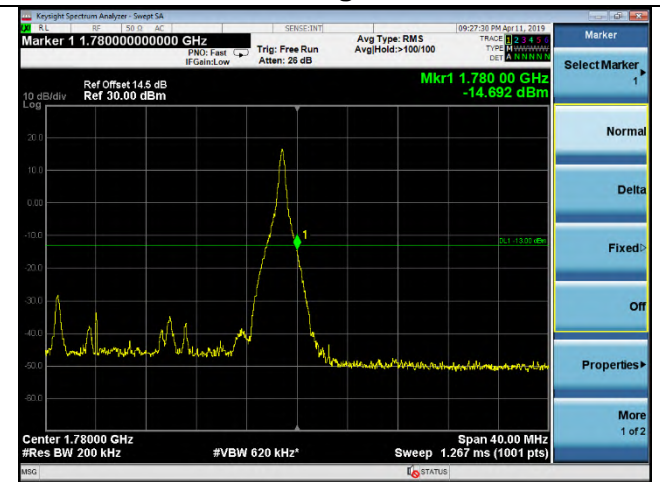


LTE Band 66

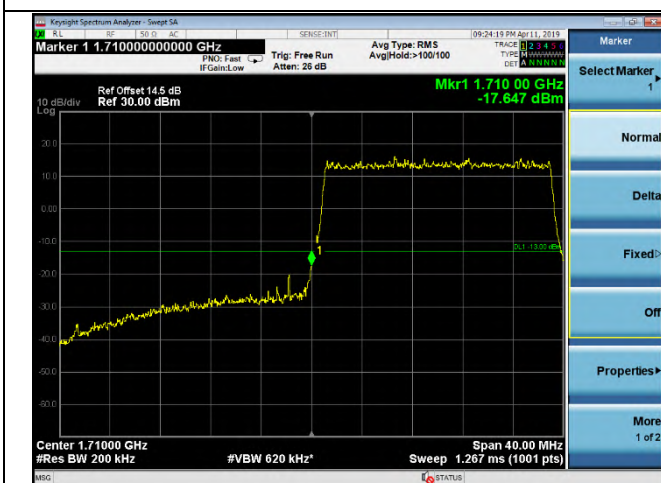
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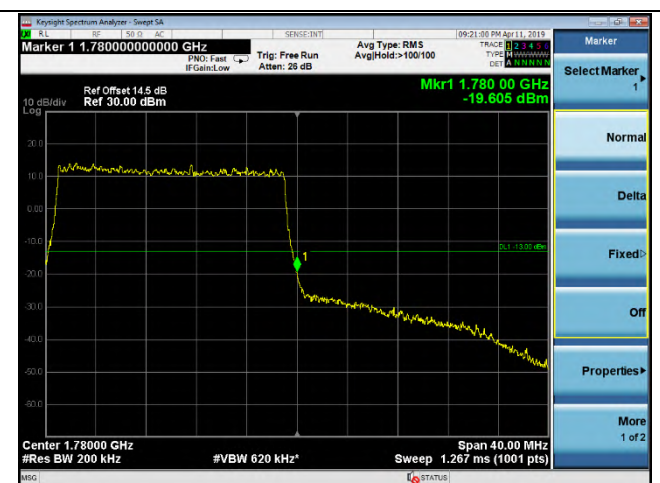
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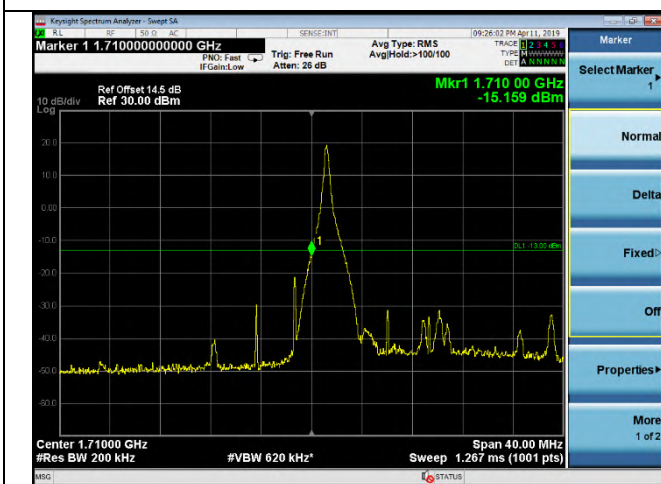
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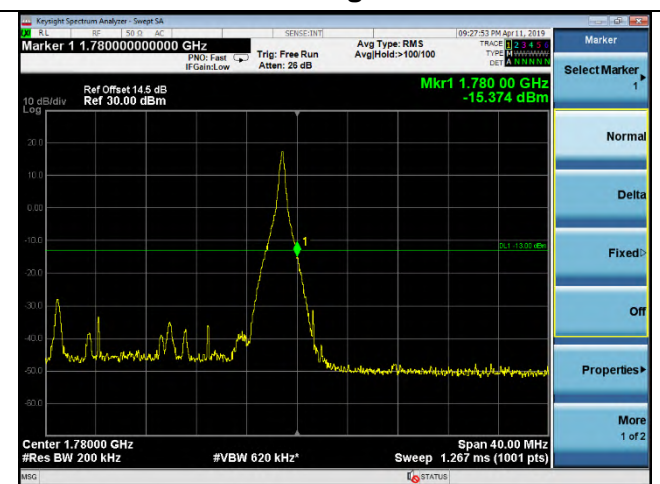
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20MHz / 16QAM / Low Channel / 1RB



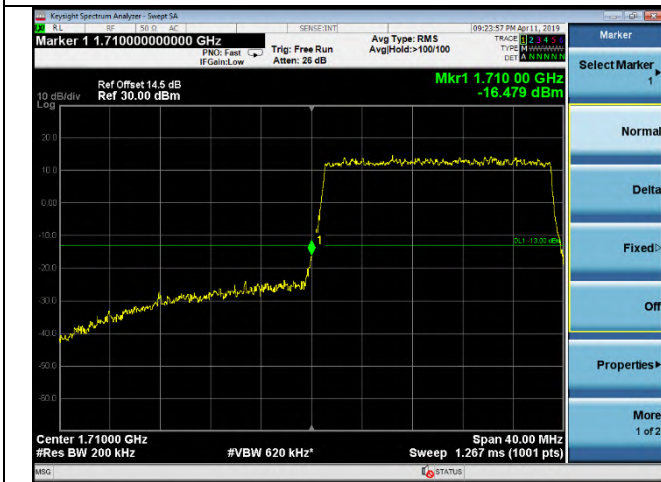
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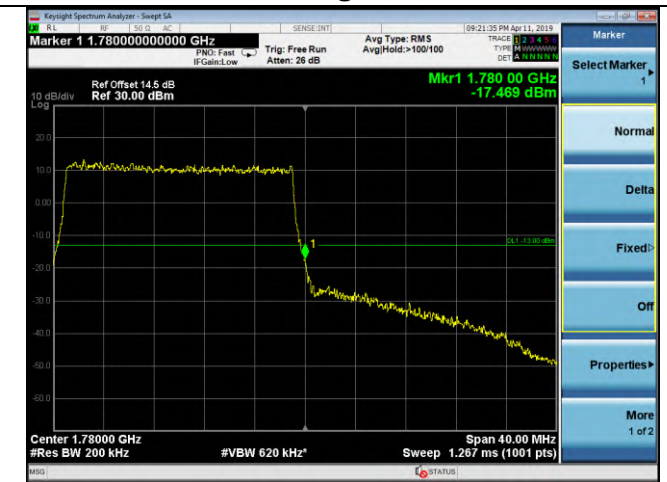


LTE Band 66

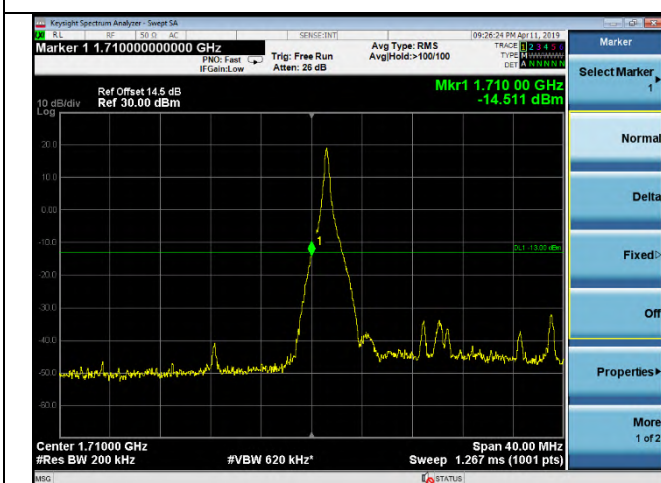
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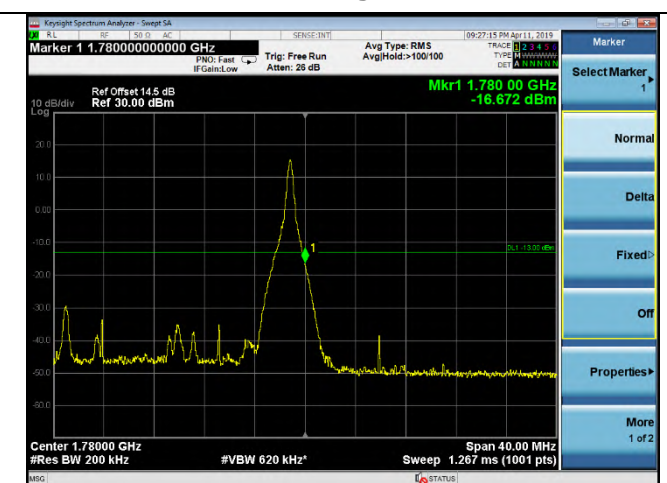
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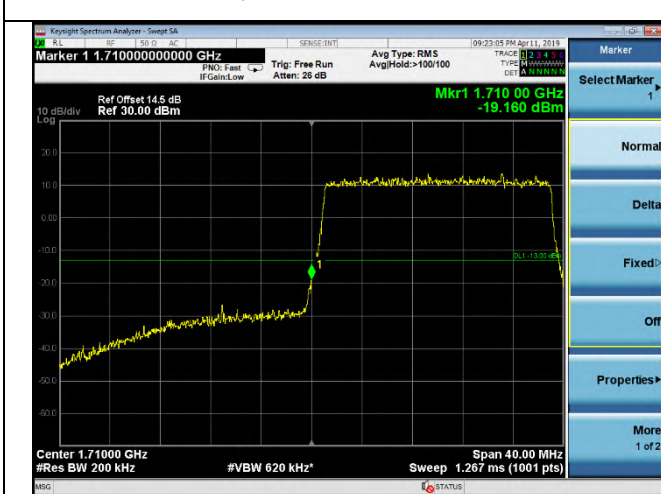
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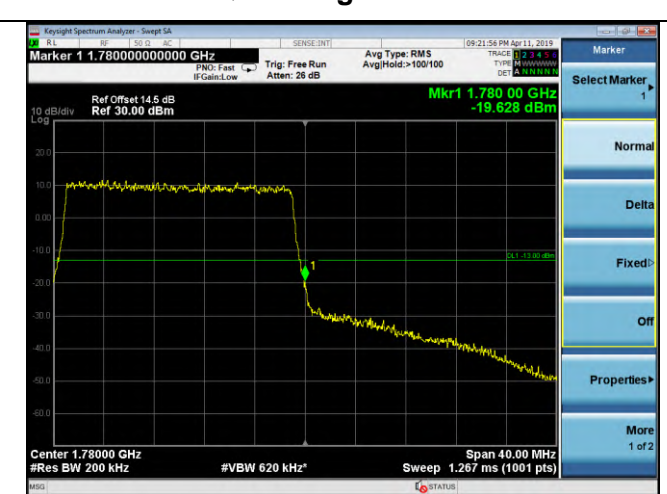
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20MHz / 64QAM / Low Channel / Full RB



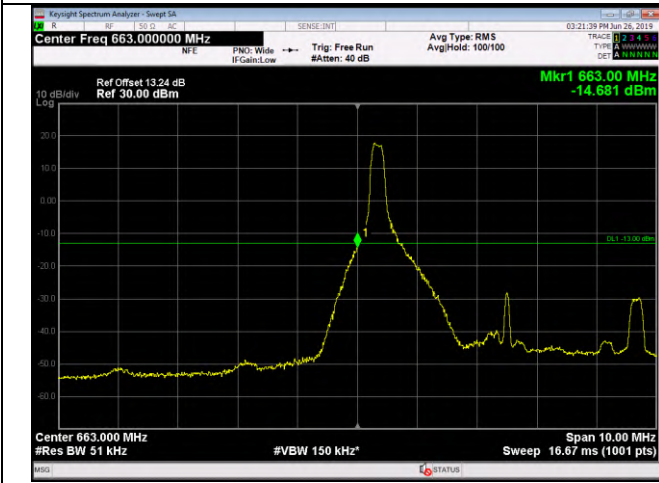
20MHz / 64QAM / High Channel / Full RB



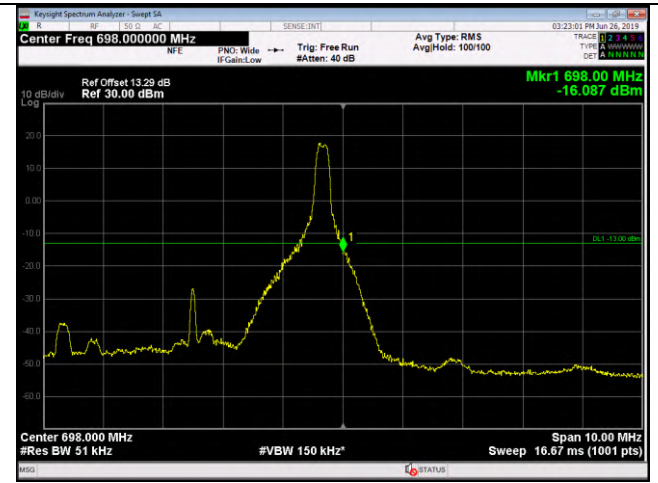


LTE Band 71

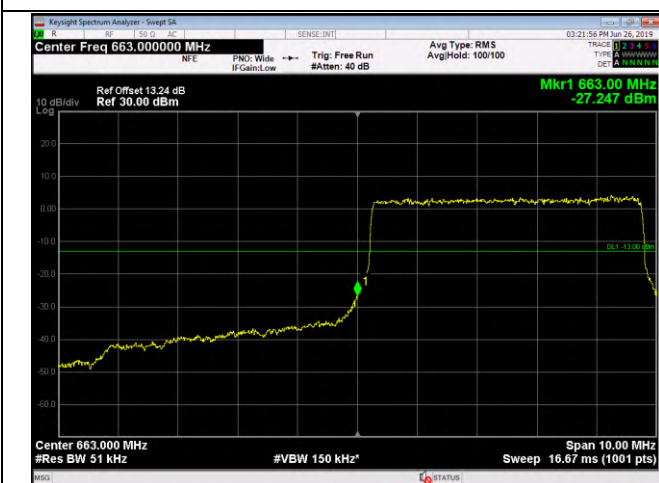
5MHz / QPSK / Low Channel / 1RB



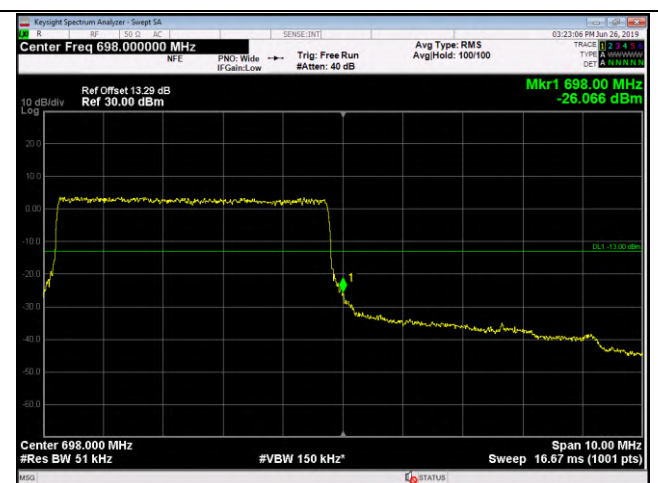
5MHz / QPSK / High Channel / 1 RB



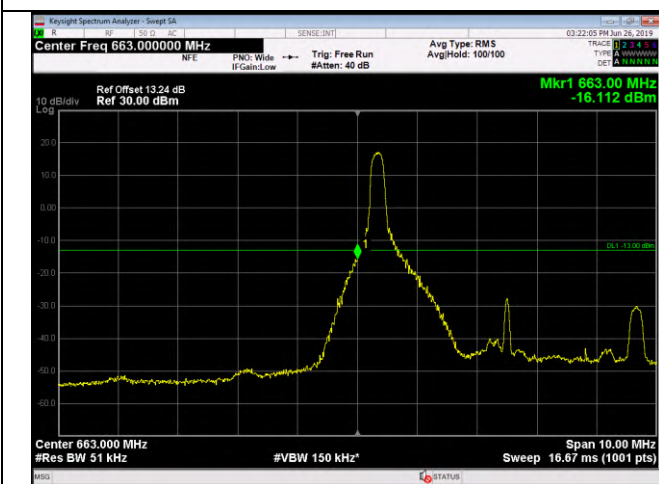
5MHz / QPSK / Low Channel / Full RB



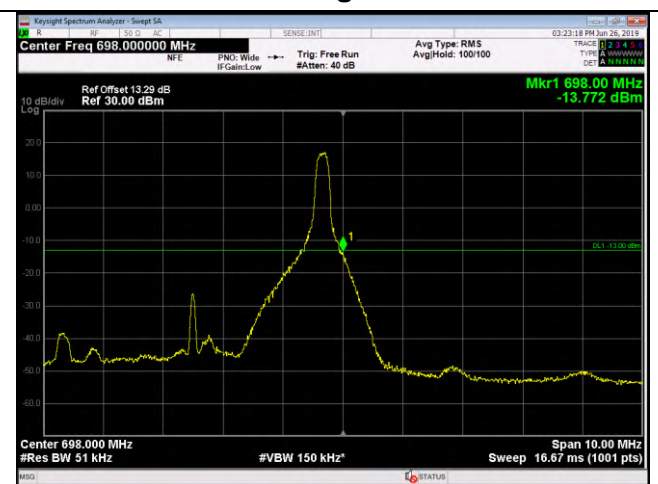
5MHz / QPSK / High Channel / Full RB



5MHz / 16QAM / Low Channel / 1RB



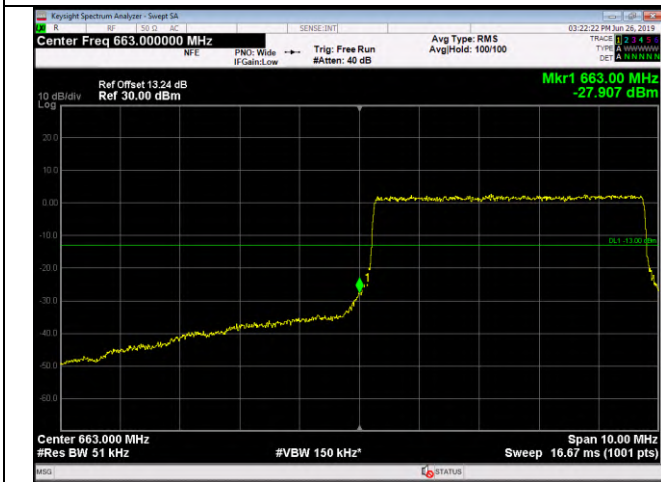
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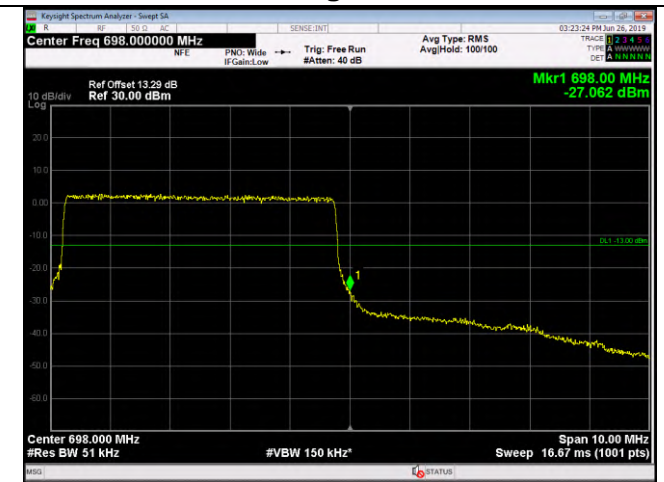


LTE Band 71

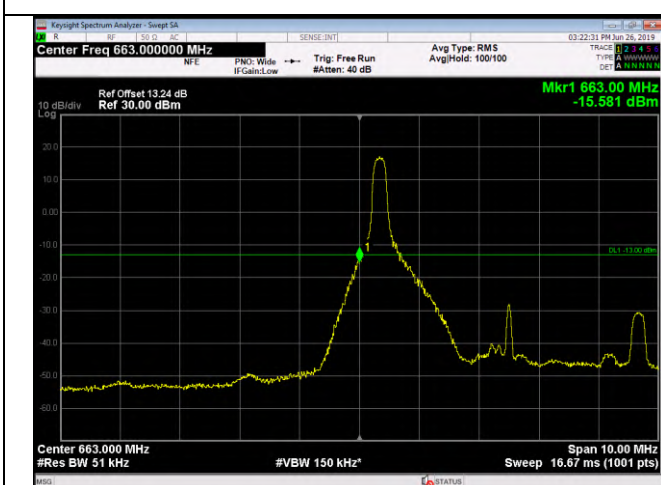
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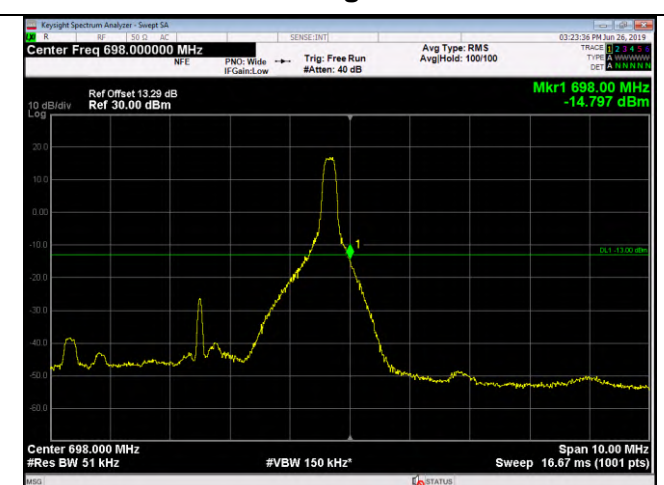
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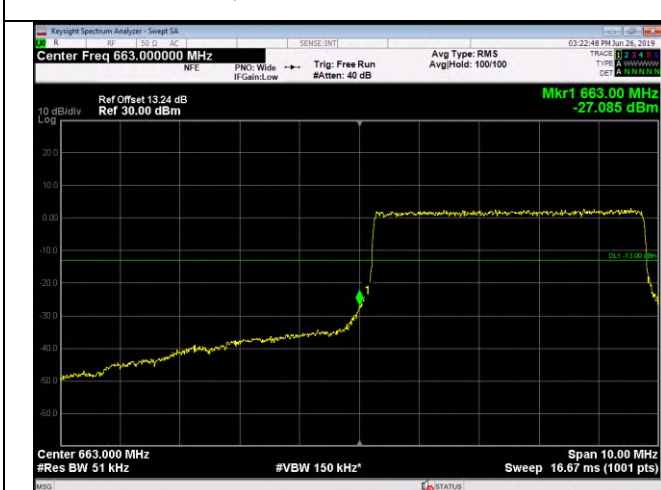
5MHz / 64QAM / Low Channel / 1RB



5MHz / 64QAM / High Channel / 1 RB



5MHz / 64QAM / Low Channel / Full RB



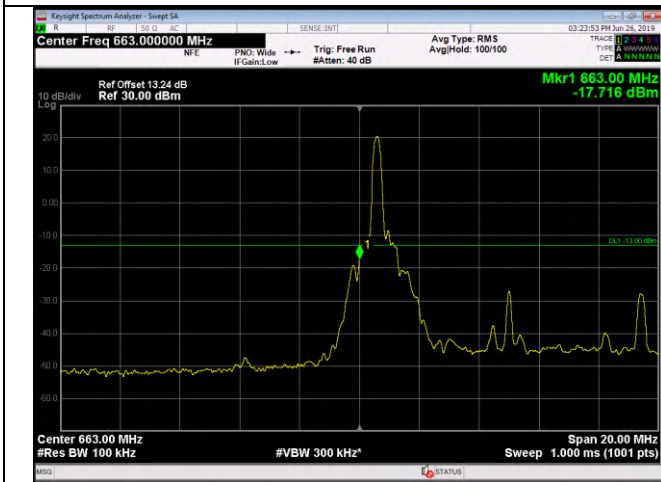
5MHz / 64QAM / High Channel / Full RB



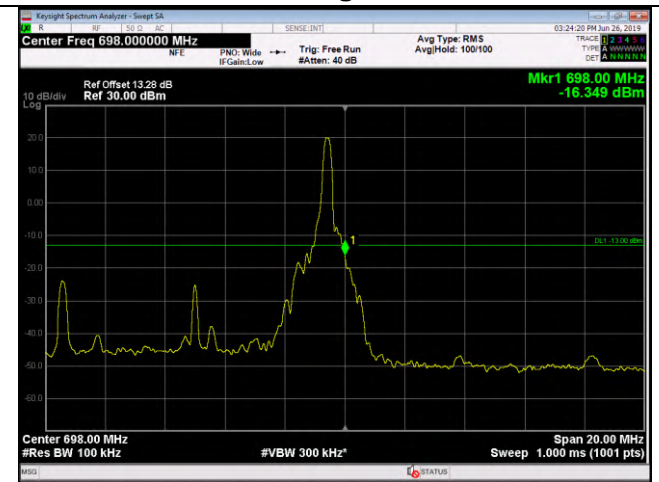


LTE Band 71

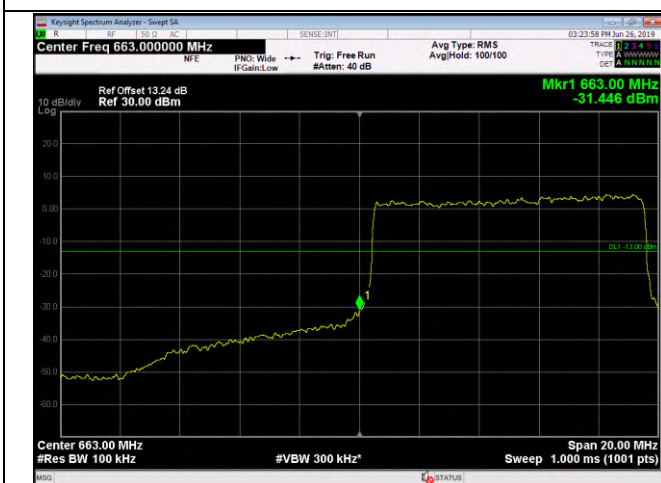
10MHz / QPSK / Low Channel / 1RB



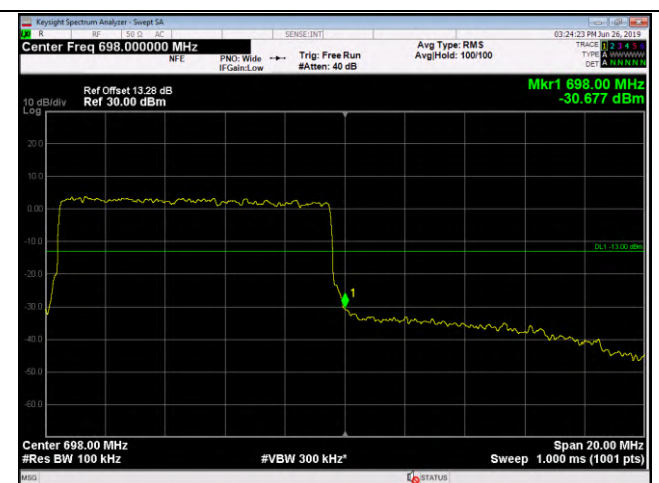
10MHz / QPSK / High Channel / 1 RB



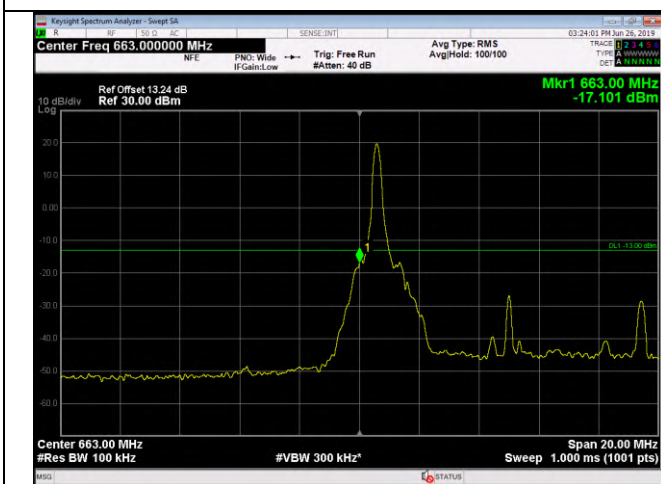
10MHz / QPSK / Low Channel / Full RB



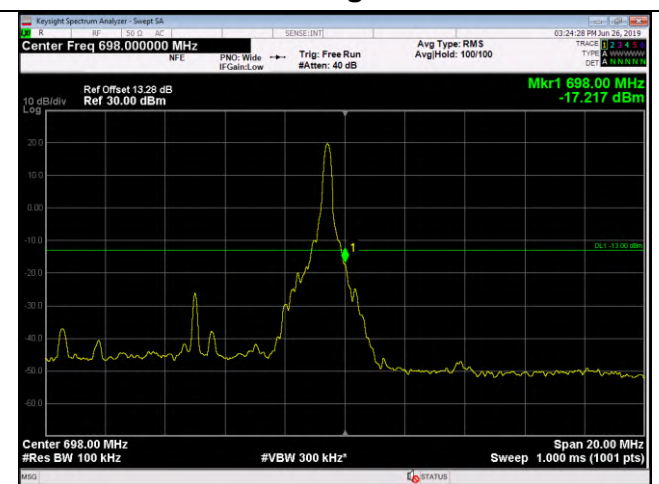
10MHz / QPSK / High Channel / Full RB



10MHz / 16QAM / Low Channel / 1RB



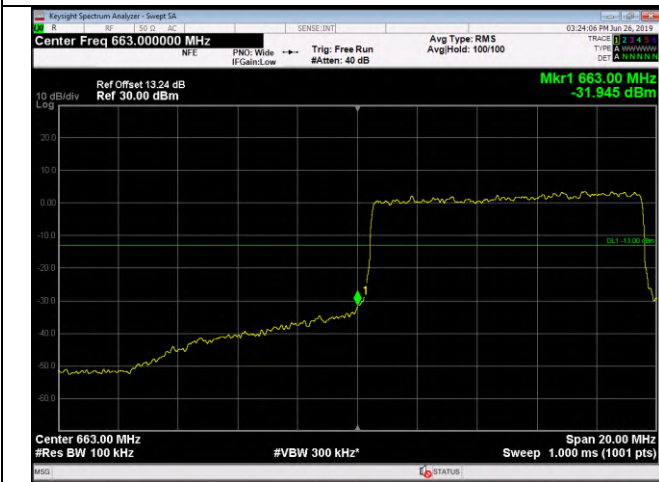
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LTE Band 71

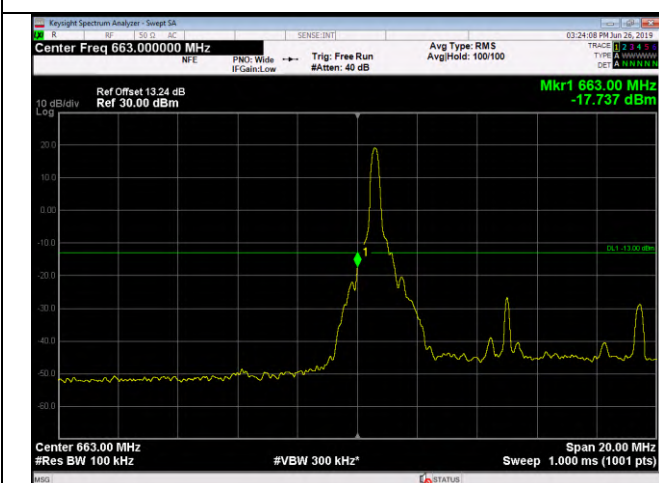
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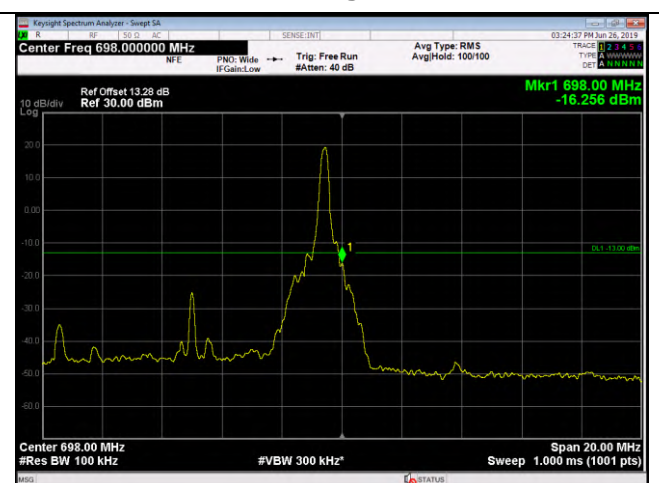
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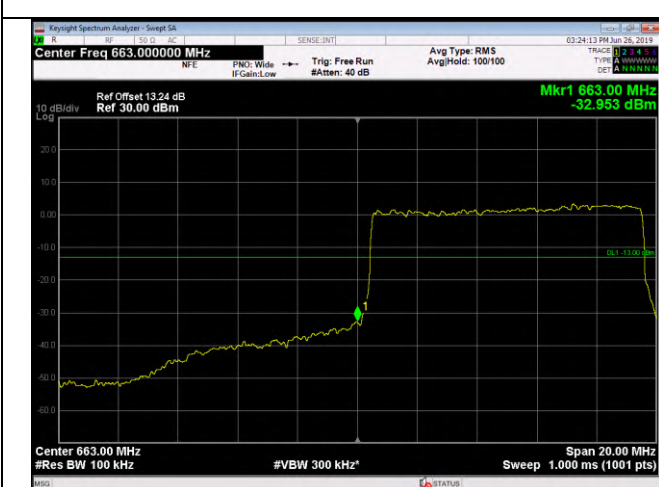
10MHz / 64QAM / Low Channel / 1RB



10MHz / 64QAM / High Channel / 1 RB



10MHz / 64QAM / Low Channel / Full RB



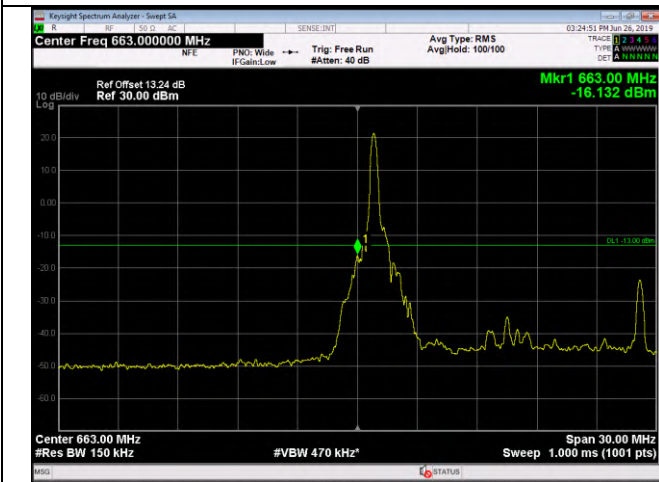
10MHz / 64QAM / High Channel / Full RB



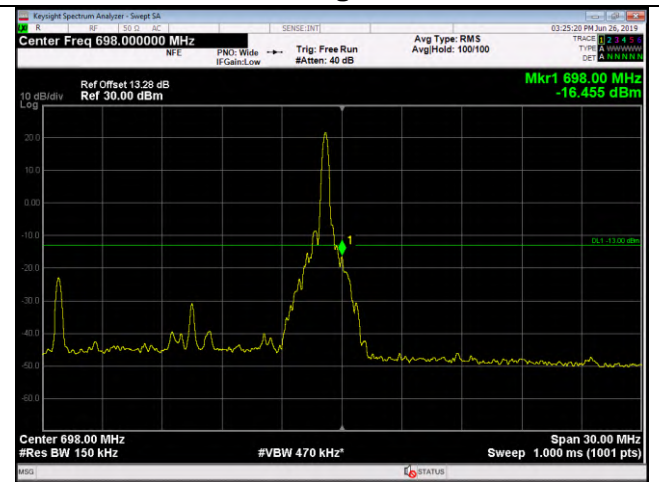


LTE Band 71

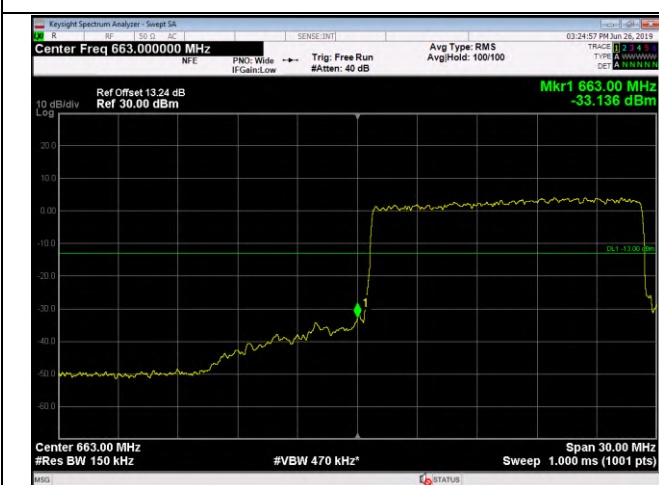
15MHz / QPSK / Low Channel / 1RB



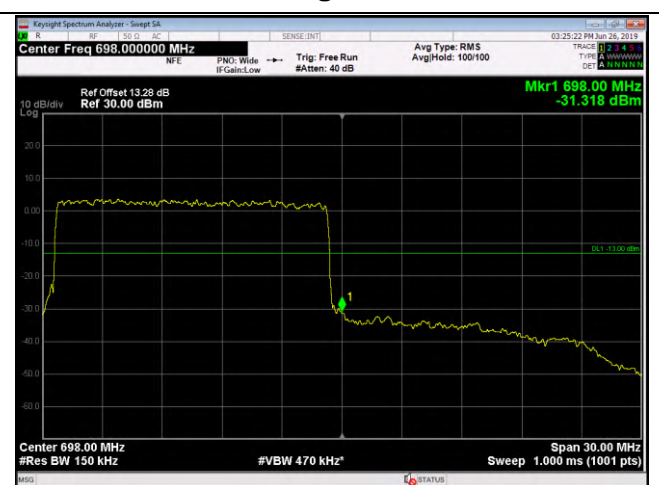
15MHz / QPSK / High Channel / 1 RB



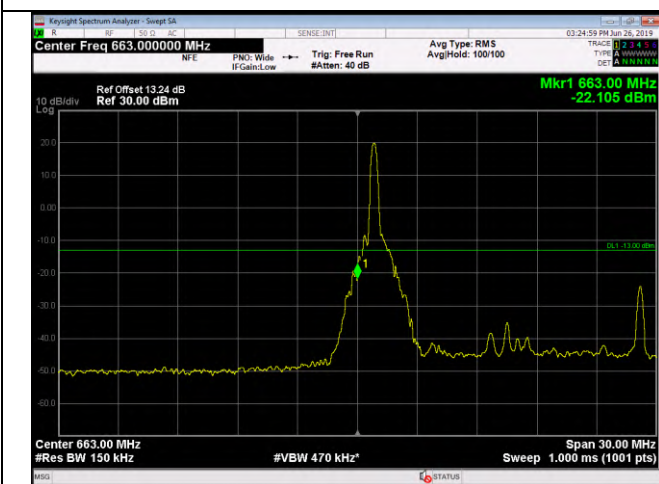
15MHz / QPSK / Low Channel / Full RB



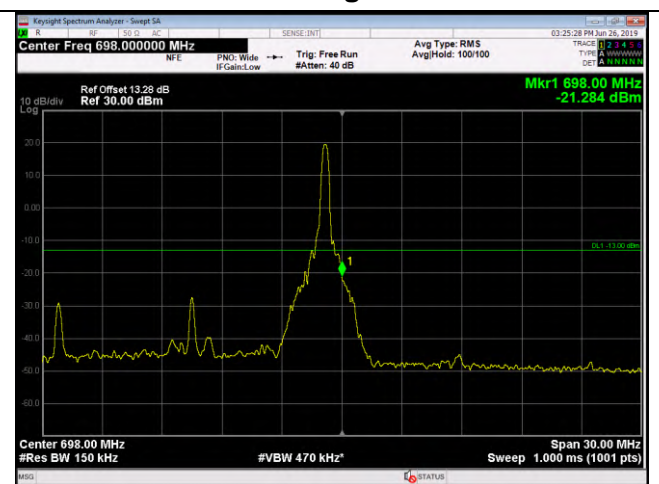
15MHz / QPSK / High Channel / Full RB



15MHz / 16QAM / Low Channel / 1RB



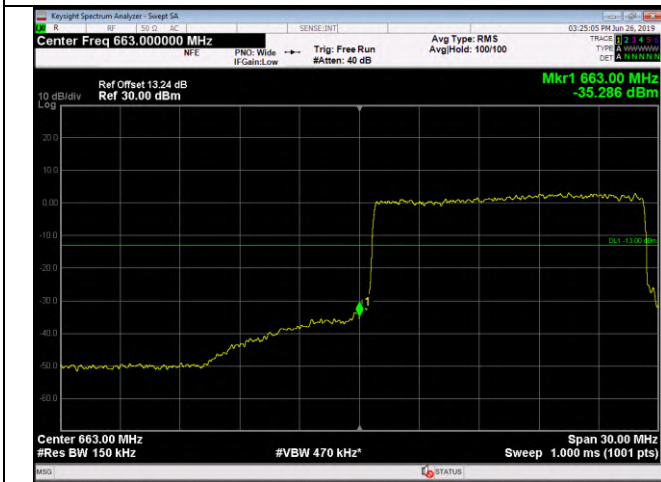
15MHz / 16QAM / High Channel / 1 RB



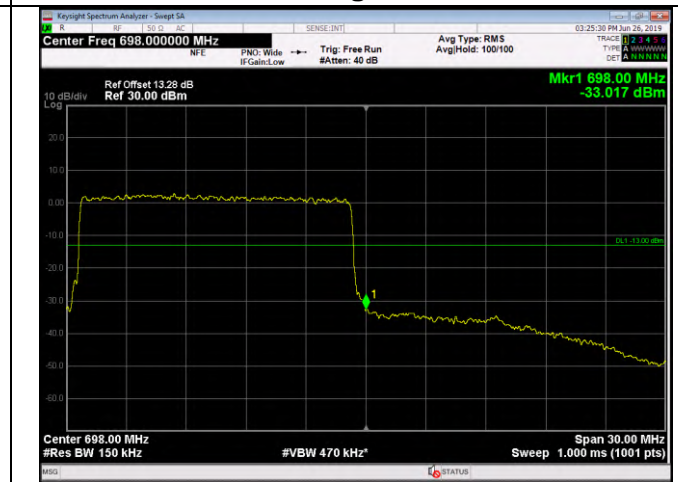


LTE Band 71

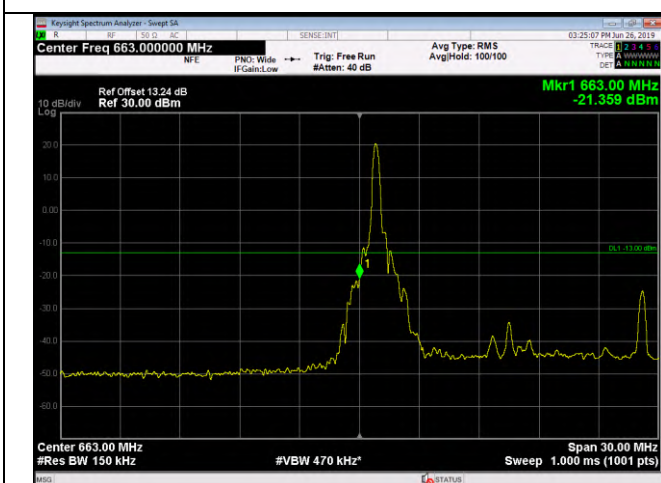
15MHz / 16QAM / Low Channel / Full RB



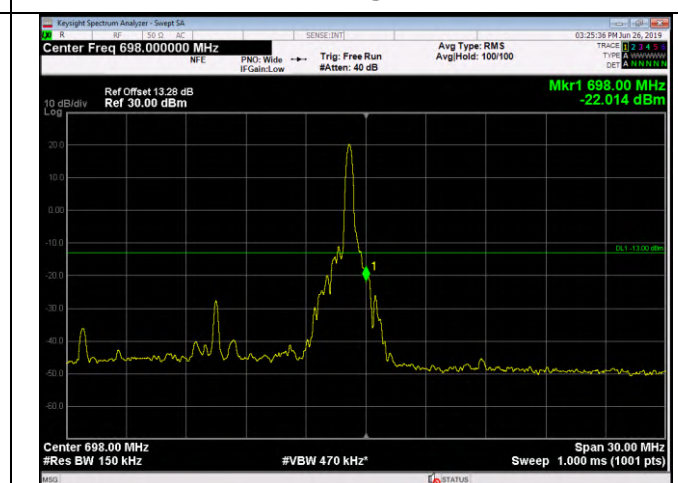
15MHz / 16QAM / High Channel / Full RB



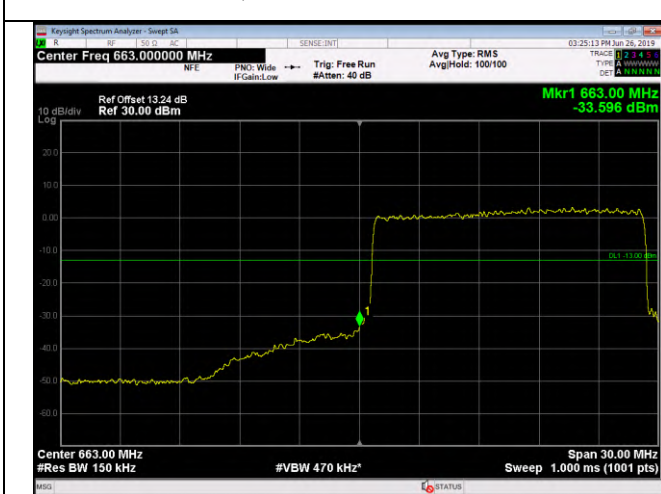
15MHz / 64QAM / Low Channel / 1RB



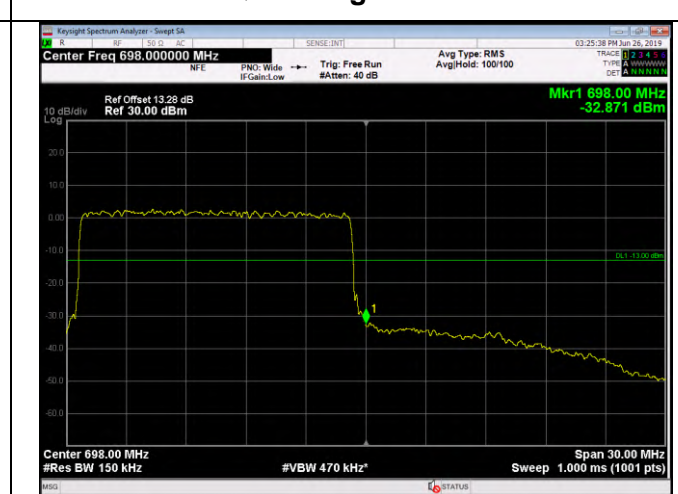
15MHz / 64QAM / High Channel / 1 RB



15MHz / 64QAM / Low Channel / Full RB



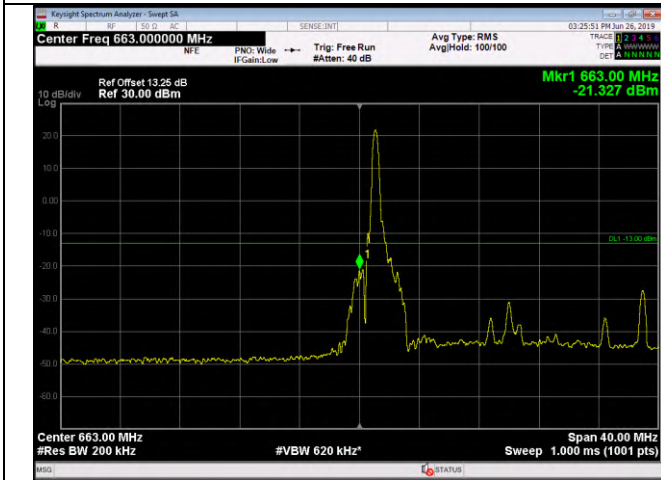
15MHz / 64QAM / High Channel / Full RB



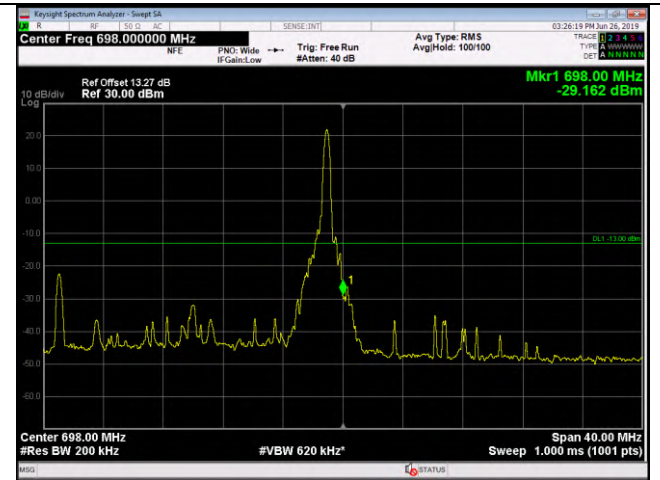


LTE Band 71

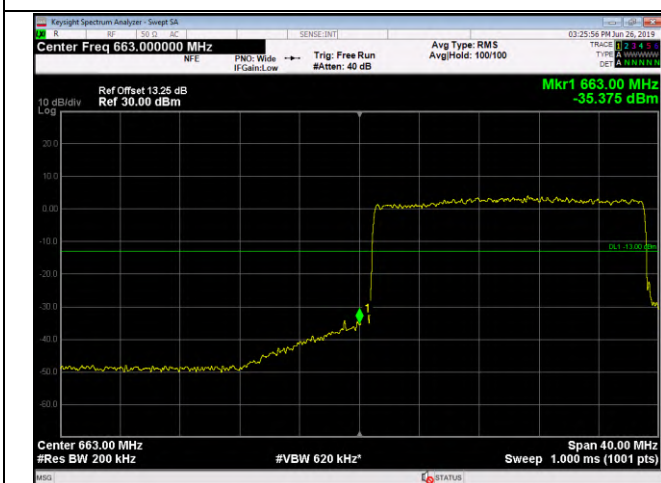
20MHz / QPSK / Low Channel / 1RB



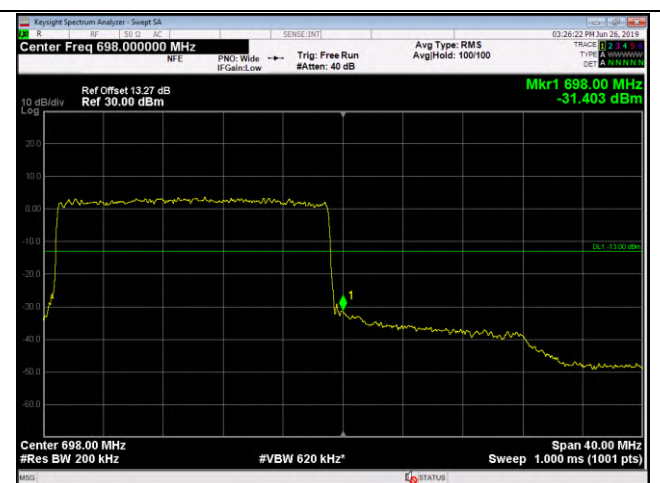
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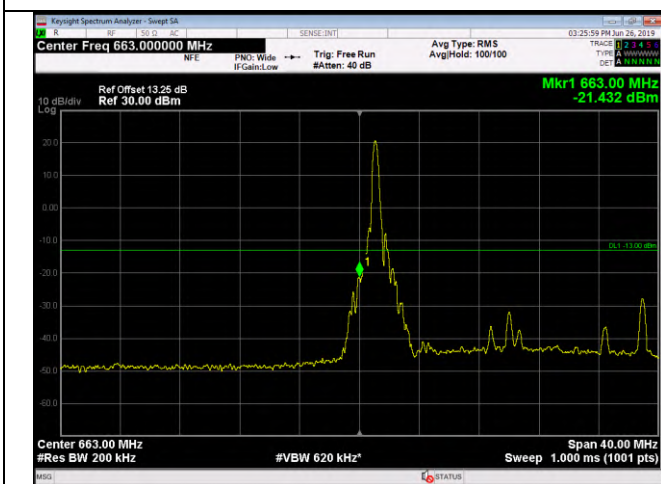
20MHz / QPSK / Low Channel / Full RB



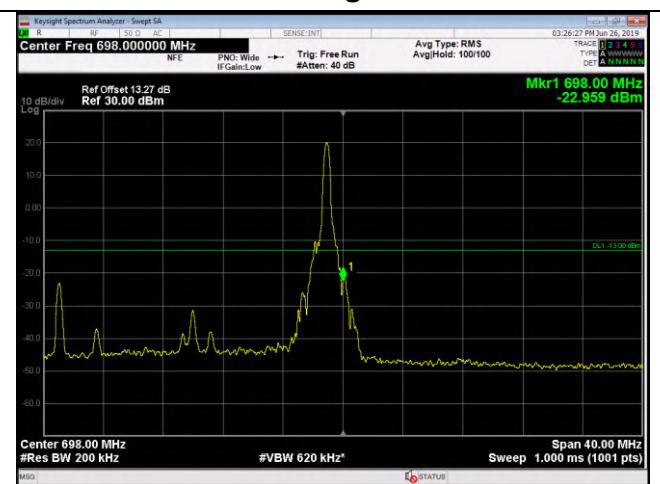
20MHz / QPSK / High Channel / Full RB



20MHz / 16QAM / Low Channel / 1RB



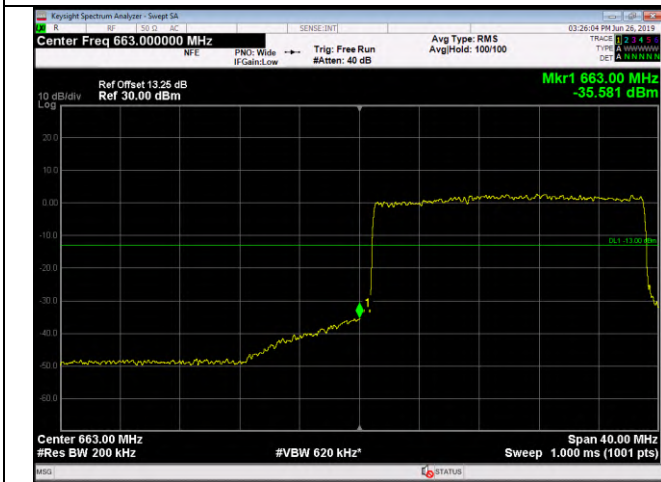
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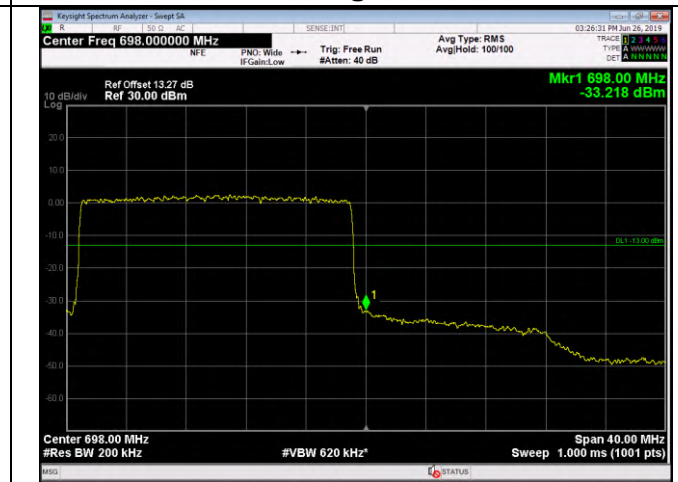


LTE Band 71

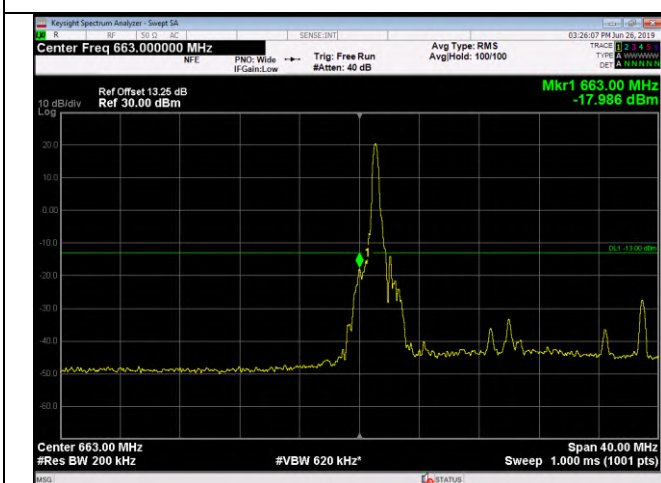
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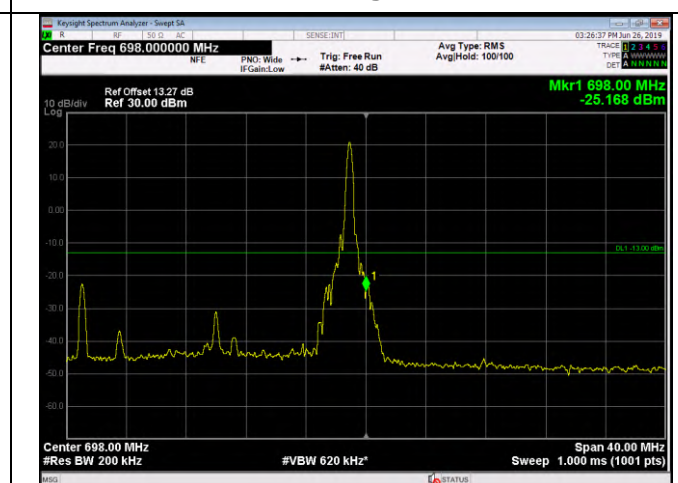
20MHz / 16QAM / High Channel / Full RB



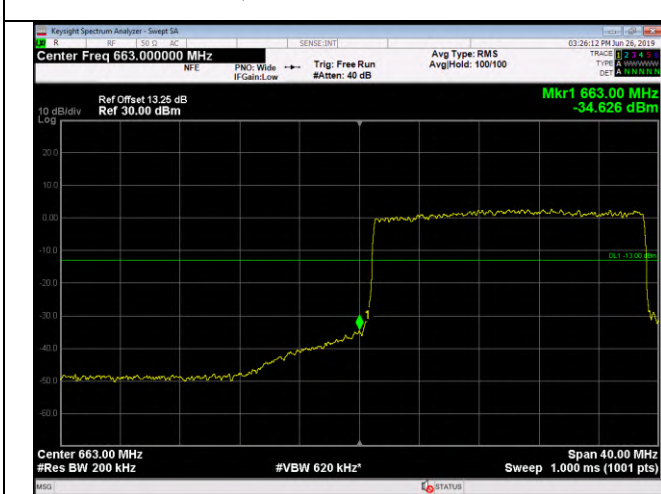
20MHz / 64QAM / Low Channel / 1RB



20MHz / 64QAM / High Channel / 1 RB



20MHz / 64QAM / Low Channel / Full RB



20MHz / 64QAM / High Channel / Full RB

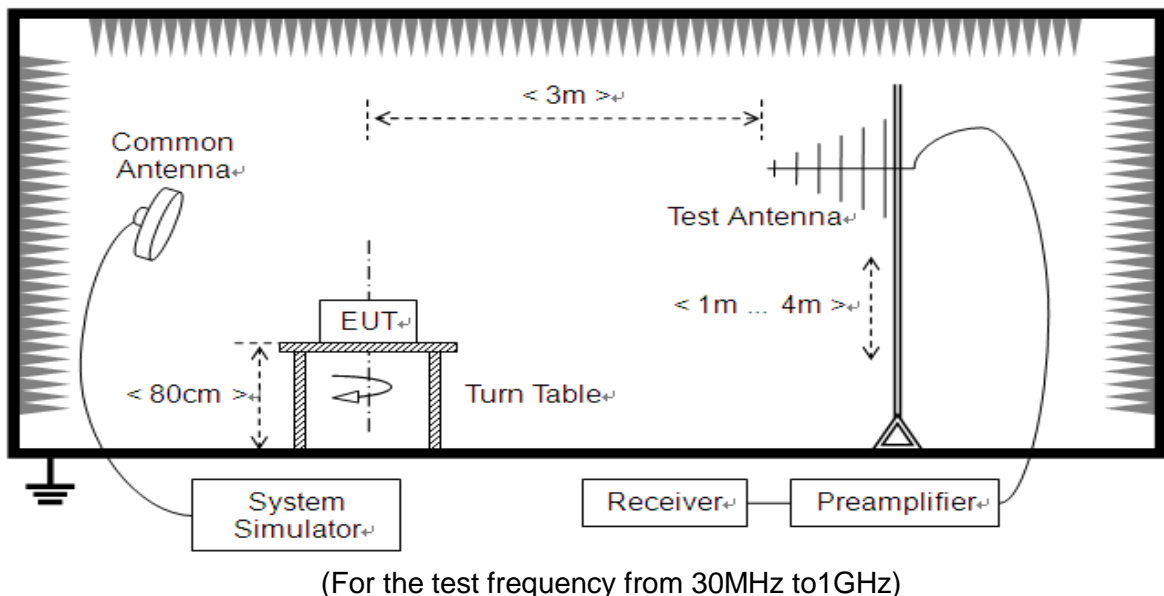


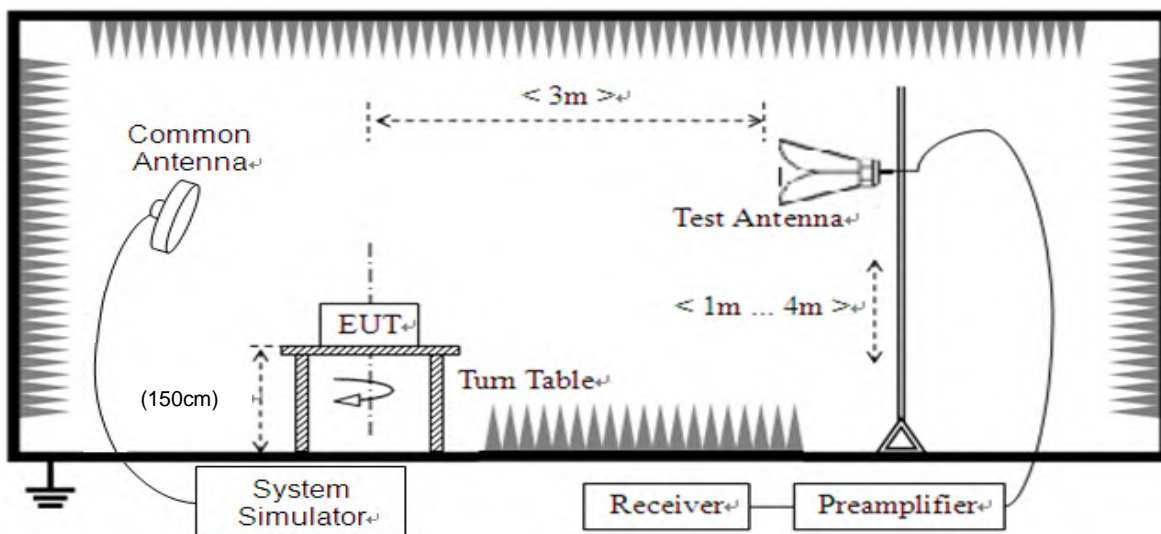
2.7. Transmitter Radiated Power (EIRP/ERP)

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 3watts 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 3watts 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 1wat 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.
7. According to FCC section 27.50 (c) (10) for LTE Band 71, Mobile and other user stations. Mobile stations are limited to 3.0 watts ERP. All user stations are limited to 3 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).

- a) 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.
- b) 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).
- c) 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.
- d) 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. $LOSS = \text{Generator Output Power (dBm)} - \text{Analyzer reading (dBm)}$
- e) Determine the effective radiated output power at each angular position from the readings in steps b) and d) using the following equation:
 $ERP \text{ (dBm)} = LVL \text{ (dBm)} + LOSS \text{ (dB)}$
- f) The maximum ERP is the maximum value determined in the preceding step.
- g) 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:

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

where: dBd refers to gain relative to an ideal dipole.

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

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	19.59	0.091	33	2	PASS
LTE Band 4	19.53	0.090	30	1	PASS
LTE Band 5	18.22	0.066	38.45	7	PASS
LTE Band 7	18.95	0.079	33	2	PASS
LTE Band 12	17.70	0.059	34.77	3	PASS
LTE Band 13	17.84	0.061	34.77	3	PASS
LTE Band 17	17.70	0.059	34.77	3	PASS
LTE Band 25	19.49	0.089	33	2	PASS
LTE Band 26	18.80	0.076	38.45	7	PASS
LTE Band 41	23.19	0.208	33	2	PASS
LTE Band 66	19.39	0.087	30	1	PASS
LTE Band 71	18.12	0.065	34.77	3	PASS



LTE Band 2						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	19.55	19.56	19.51
		1	3	19.58	19.53	19.52
		1	5	19.48	19.55	19.54
		3	0	19.54	19.40	19.54
		3	1	19.55	19.54	19.57
		3	3	19.52	19.56	19.55
		6	0	18.59	18.63	18.60
	16-QAM	1	0	18.60	18.46	18.55
		1	3	18.58	18.48	18.49
		1	5	18.59	18.53	18.44
		3	0	18.56	18.60	18.72
		3	1	18.50	18.46	18.45
		3	3	18.59	18.54	18.45
		6	0	17.64	17.58	17.61
	64-QAM	1	0	18.28	18.35	18.22
		1	3	18.17	18.33	18.29
		1	5	18.21	18.38	18.25
		3	0	18.10	18.25	18.30
		3	1	18.09	18.37	18.19
		3	3	18.15	18.35	18.27
		6	0	17.33	17.43	17.31
3	QPSK	1	0	19.54	19.54	19.54
		1	8	19.50	19.41	19.51
		1	14	19.53	19.50	19.39
		8	0	19.58	19.31	19.55
		8	4	19.56	19.57	19.56
		8	7	19.49	19.55	19.41
		15	0	18.52	18.58	18.55
	16-QAM	1	0	18.98	18.71	18.84
		1	8	18.83	18.95	18.97
		1	14	18.57	18.98	18.90
		8	0	18.87	18.60	17.58
		8	4	19.00	18.99	18.96



		8	7	18.69	18.97	18.94	
		15	0	17.59	17.61	17.62	
	64-QAM	1	0	18.38	18.49	18.52	
		1	8	18.44	18.43	18.47	
		1	14	18.48	18.28	18.35	
		8	0	17.40	18.33	18.32	
		8	4	18.42	18.18	18.44	
		8	7	18.47	18.41	18.36	
		15	0	17.31	17.44	17.39	
5	QPSK	1	0	19.45	19.55	19.45	
		1	12	19.44	19.57	19.43	
		1	24	19.54	19.50	19.38	
		12	0	19.44	19.53	19.46	
		12	7	19.48	19.51	19.40	
		12	13	19.52	19.50	19.36	
		50	0	18.50	18.52	18.57	
	16-QAM	1	0	18.42	18.54	18.34	
		1	12	18.35	18.47	18.29	
		1	24	18.29	18.49	18.27	
		12	0	18.57	18.67	18.48	
		12	7	18.29	18.50	18.28	
		12	13	18.35	18.48	18.33	
		50	0	17.61	17.63	17.64	
	64-QAM	1	0	18.48	18.15	18.10	
		1	12	18.35	18.08	17.99	
		1	24	18.51	18.01	18.01	
		12	0	18.40	18.27	18.05	
		12	7	18.50	18.11	18.13	
		12	13	18.52	18.08	18.00	
		50	0	17.35	17.40	17.38	
	10	QPSK	1	0	19.53	19.44	19.54
			1	24	19.52	19.55	19.50
			1	49	19.40	19.46	19.49
			25	0	19.57	19.52	19.54
			25	12	19.51	19.40	19.56
			25	25	19.50	19.29	19.33
			50	0	18.61	18.60	18.57
16-QAM		1	0	18.95	18.75	18.82	



		1	24	18.90	18.70	18.96	
		1	49	18.98	18.68	18.95	
		25	0	18.69	18.59	18.60	
		25	12	18.94	18.77	18.77	
		25	25	19.00	18.69	18.90	
		50	0	17.64	17.67	17.59	
	64-QAM	1	0	18.47	18.40	18.41	
		1	24	18.41	18.57	18.38	
		1	49	18.46	18.41	18.32	
		25	0	18.42	18.42	18.35	
		25	12	18.49	18.38	18.27	
		25	25	18.43	18.25	18.43	
	15	QPSK	1	0	19.49	19.37	19.43
			1	37	19.42	19.43	19.51
1			74	19.48	19.35	19.43	
36			0	19.27	19.47	19.48	
36			20	19.51	19.40	19.50	
36			39	19.42	18.34	19.41	
75			0	18.65	18.53	18.63	
16-QAM		1	0	18.85	18.78	18.75	
		1	37	18.90	18.86	18.89	
		1	74	18.93	18.93	18.91	
		36	0	18.61	18.55	18.59	
		36	20	18.95	18.91	18.91	
		36	39	18.79	18.86	18.91	
		75	0	17.65	17.59	17.60	
64-QAM	1	0	18.53	18.52	18.57		
	1	37	18.69	18.46	18.45		
	1	74	18.77	18.55	18.53		
	36	0	18.62	18.38	18.51		
	36	20	18.80	18.33	18.62		
	36	39	18.72	18.26	18.49		
	75	0	17.47	17.44	17.37		
20	QPSK	1	0	19.45	19.37	19.43	
		1	49	19.48	19.41	19.43	
		1	99	19.59	19.35	19.35	
		50	0	19.46	19.48	19.44	



		50	24	19.42	19.40	19.40
		50	50	19.55	19.49	19.36
		100	0	18.60	18.62	18.51
	16-QAM	1	0	18.87	18.75	18.63
		1	49	18.65	18.70	18.67
		1	99	18.71	18.53	18.68
		50	0	18.58	18.47	18.43
		50	24	18.71	18.56	18.63
		50	50	18.60	18.51	18.65
		100	0	17.65	17.60	17.54
	64-QAM	1	0	18.39	18.39	18.30
		1	49	18.30	18.33	18.24
		1	99	18.43	18.41	18.39
		50	0	18.36	18.28	18.17
		50	24	18.41	18.09	18.36
50		50	18.37	18.30	18.20	
100		0	17.44	17.34	17.28	



LTE Band 4						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	19.49	19.47	19.39
		1	3	19.53	19.53	19.40
		1	5	19.50	19.50	19.43
		3	0	19.50	19.53	19.50
		3	1	19.53	19.50	19.41
		3	3	19.50	19.50	19.43
		6	0	18.64	18.61	18.59
	16-QAM	1	0	18.67	18.89	18.53
		1	3	18.60	18.95	18.46
		1	5	18.66	18.84	18.42
		3	0	18.60	18.81	18.65
		3	1	18.63	18.76	18.46
		3	3	18.68	18.87	18.49
		6	0	17.66	18.57	17.50
	64-QAM	1	0	18.29	18.23	18.30
		1	3	18.26	18.29	18.29
		1	5	18.30	18.30	18.31
		3	0	18.25	18.26	18.21
		3	1	18.22	18.29	18.27
		3	3	18.29	18.21	18.23
		6	0	17.30	17.26	17.31
3	QPSK	1	0	19.51	19.50	19.46
		1	8	19.47	19.52	19.49
		1	14	19.50	19.50	19.51
		8	0	19.50	19.49	19.47
		8	4	19.51	19.50	19.50
		8	7	19.52	19.50	19.52
		15	0	18.60	18.54	18.55
	16-QAM	1	0	18.69	18.57	18.58
		1	8	18.56	18.61	18.52
		1	14	18.64	18.56	18.60
		8	0	18.85	18.62	18.48
		8	4	18.53	18.67	18.61
		8	7	18.54	18.63	18.52



	64-QAM	15	0	17.65	17.56	17.64
		1	0	18.21	18.14	18.29
		1	8	18.26	18.12	18.17
		1	14	18.13	18.28	18.32
		8	0	18.19	18.25	18.30
		8	4	18.27	18.19	18.28
		8	7	18.30	18.01	18.16
5	QPSK	15	0	17.33	17.33	17.38
		1	0	19.48	19.50	19.43
		1	12	19.42	19.41	19.36
		1	24	19.46	19.43	19.44
		12	0	18.59	19.47	19.50
		12	7	19.43	19.44	19.37
		12	13	19.41	19.40	19.41
	50	0	18.56	18.51	18.56	
	16-QAM	1	0	18.48	18.61	18.48
		1	12	18.32	18.67	18.31
		1	24	18.41	18.68	18.35
		12	0	18.63	18.54	18.43
		12	7	18.40	18.69	18.37
		12	13	18.37	18.63	18.39
		50	0	17.69	17.56	17.64
	64-QAM	1	0	18.07	18.18	18.10
		1	12	17.99	18.00	18.04
		1	24	18.05	18.02	18.07
		12	0	18.25	18.15	18.15
		12	7	18.07	18.08	18.07
		12	13	18.00	18.03	18.09
50		0	17.30	17.35	17.36	
10	QPSK	1	0	19.50	19.50	19.37
		1	24	19.49	19.42	19.42
		1	49	19.51	19.47	19.43
		25	0	19.46	18.56	19.35
		25	12	19.49	19.48	19.40
		25	25	19.52	19.40	19.44
		50	0	18.60	18.58	18.64
	16-QAM	1	0	18.75	18.74	18.50
		1	24	18.63	18.60	18.63



		1	49	18.51	18.68	18.56	
		25	0	18.76	18.61	18.68	
		25	12	18.43	18.69	18.72	
		25	25	18.56	18.63	18.65	
		50	0	17.68	17.65	17.68	
	64-QAM	1	0	18.24	18.21	18.25	
		1	24	18.12	18.33	18.32	
		1	49	18.15	18.29	18.18	
		25	0	18.20	18.34	18.26	
		25	12	18.04	18.26	18.07	
		25	25	18.17	18.13	18.29	
	15	QPSK	1	0	19.53	19.41	19.39
			1	37	19.42	19.35	19.35
1			74	19.51	19.50	19.36	
36			0	19.53	19.50	19.42	
36			20	19.49	19.43	19.38	
36			39	19.40	19.37	19.34	
75			0	18.68	18.61	18.63	
16-QAM		1	0	18.53	18.58	18.68	
		1	37	18.66	18.53	18.63	
		1	74	18.47	18.62	18.70	
		36	0	18.67	18.60	18.57	
		36	20	18.87	18.66	18.53	
		36	39	18.51	18.51	18.65	
	75	0	17.70	17.46	17.50		
64-QAM	1	0	18.19	18.19	18.39		
	1	37	18.24	18.37	18.26		
	1	74	18.16	18.25	18.33		
	36	0	18.27	18.27	18.31		
	36	20	18.04	18.10	18.18		
	36	39	18.23	18.33	18.25		
	75	0	17.29	17.35	17.32		
20	QPSK	1	0	19.53	19.35	19.43	
		1	49	19.36	19.28	19.31	
		1	99	19.45	19.41	19.35	
		50	0	19.48	19.43	19.47	
		50	24	19.45	19.40	19.35	



		50	50	19.40	19.33	19.31
		100	0	18.59	18.51	18.57
	16-QAM	1	0	18.72	18.65	18.69
		1	49	18.74	18.68	18.57
		1	99	18.58	18.76	18.62
		50	0	18.59	18.47	18.55
		50	24	18.64	18.74	18.36
		50	50	18.57	18.71	18.43
		100	0	17.65	17.56	17.59
	64-QAM	1	0	18.37	18.31	18.36
		1	49	18.41	18.28	18.43
		1	99	18.45	18.15	18.48
		50	0	18.22	18.19	18.27
		50	24	18.40	18.27	18.24
		50	50	18.43	18.21	18.40
100		0	17.27	17.27	17.31	



LTE Band 5						
Bandwidth	Modulation	RB	RB	Measured ERP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	18.07	17.26	17.21
		1	3	18.14	17.35	17.22
		1	5	18.14	17.30	17.18
		3	0	18.22	17.43	17.24
		3	1	18.18	17.38	16.99
		3	3	18.13	17.30	17.16
		6	0	17.27	16.48	16.10
	16-QAM	1	0	17.24	16.42	16.26
		1	3	17.29	16.40	16.20
		1	5	17.30	16.43	16.17
		3	0	17.22	16.65	16.31
		3	1	17.28	16.50	16.33
		3	3	17.22	16.37	16.23
		6	0	16.30	15.51	15.25
	64-QAM	1	0	16.88	16.16	15.84
		1	3	17.04	16.22	15.72
		1	5	16.95	16.20	15.86
		3	0	16.85	16.12	15.83
		3	1	16.97	16.23	16.00
		3	3	16.88	16.18	15.93
		6	0	15.93	15.19	14.67
3	QPSK	1	0	17.95	17.30	17.29
		1	8	17.88	17.37	17.63
		1	14	18.13	17.27	17.52
		8	0	17.97	17.32	17.56
		8	4	18.17	17.41	17.44
		8	7	17.91	17.36	17.22
		15	0	17.09	16.41	16.30
	16-QAM	1	0	17.44	16.51	16.38
		1	8	17.47	16.57	16.32
		1	14	17.71	16.32	16.51
		8	0	17.06	16.39	16.36
		8	4	17.72	16.26	16.53
		8	7	17.49	16.38	16.37



	64-QAM	15	0	16.18	15.45	15.02
		1	0	16.90	16.30	15.89
		1	8	16.74	16.16	16.02
		1	14	16.92	16.28	16.21
		8	0	16.70	16.05	15.96
		8	4	16.96	16.20	16.02
		8	7	16.79	16.26	15.99
5	QPSK	1	0	17.83	17.17	17.50
		1	12	17.69	17.39	17.29
		1	24	18.00	17.37	17.16
		12	0	17.92	17.41	17.24
		12	7	17.98	17.18	17.36
		12	13	17.74	17.34	17.19
		50	0	17.02	16.46	16.45
	16-QAM	1	0	16.84	16.32	16.33
		1	12	16.66	16.54	16.39
		1	24	16.98	16.37	16.26
		12	0	16.70	16.30	16.31
		12	7	16.95	16.46	16.18
		12	13	16.66	16.41	16.45
		50	0	16.12	15.33	15.30
	64-QAM	1	0	16.70	15.90	16.00
		1	12	16.57	15.84	16.03
		1	24	16.63	16.02	15.79
		12	0	16.53	15.97	15.93
		12	7	16.69	16.04	15.78
		12	13	16.75	15.80	15.86
		50	0	15.78	15.14	14.75
10	QPSK	1	0	17.72	17.19	16.80
		1	24	17.50	17.25	16.85
		1	49	17.90	17.22	16.99
		25	0	17.77	17.19	16.76
		25	12	17.87	17.24	17.19
		25	25	17.52	17.26	16.86
		50	0	16.94	16.53	16.16
	16-QAM	1	0	17.01	16.23	16.39
		1	24	16.98	16.30	16.42



		1	49	17.03	16.44	16.34
		25	0	16.87	16.46	16.31
		25	12	17.02	16.21	16.23
		25	25	16.96	16.19	16.35
		50	0	15.94	15.55	15.17
	64-QAM	1	0	16.86	16.30	15.90
		1	24	16.79	16.44	16.03
		1	49	17.03	16.28	15.86
		25	0	16.89	16.24	15.69
		25	12	16.92	16.38	16.03
		25	25	16.76	16.41	15.76
		50	0	15.61	15.19	14.85



LTE Band 7						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	18.72	18.86	18.86
		1	12	18.78	18.78	18.81
		1	24	18.80	18.75	18.79
		12	0	18.61	18.81	18.64
		12	7	18.63	18.74	18.77
		12	13	18.80	18.77	18.83
		50	0	17.91	17.81	17.91
	16-QAM	1	0	17.72	18.09	17.98
		1	12	17.68	18.01	17.92
		1	24	17.71	18.05	17.88
		12	0	17.82	17.84	17.93
		12	7	17.70	18.04	17.91
		12	13	17.73	18.02	17.90
		50	0	17.05	17.12	17.13
	64-QAM	1	0	17.15	17.29	17.33
		1	12	17.08	17.34	17.37
		1	24	17.10	17.44	17.31
		12	0	17.27	17.18	17.19
		12	7	17.09	17.43	17.35
		12	13	17.05	17.37	17.41
		50	0	17.33	17.18	17.21
10	QPSK	1	0	18.90	18.92	18.89
		1	24	18.84	18.75	18.91
		1	49	18.86	18.82	18.88
		25	0	18.90	18.90	18.90
		25	12	18.87	18.83	18.88
		25	25	18.89	18.80	18.94
		50	0	17.92	17.83	17.93
	16-QAM	1	0	17.89	17.99	18.18
		1	24	17.86	17.91	18.10
		1	49	18.02	17.93	18.03
		25	0	17.87	17.96	17.03
		25	12	17.71	17.97	18.05
		25	25	17.74	17.90	17.82



	64-QAM	50	0	17.98	17.84	17.78
		1	0	17.23	17.49	17.31
		1	24	17.18	17.38	17.44
		1	49	17.06	17.43	17.37
		25	0	17.13	17.34	17.30
		25	12	17.16	17.38	17.22
		25	25	17.11	17.41	17.38
		50	0	17.32	17.30	17.25
15	QPSK	1	0	18.74	18.83	18.83
		1	37	18.77	18.67	18.76
		1	74	18.82	18.75	18.80
		36	0	18.90	18.81	18.90
		36	20	18.83	18.74	18.80
		36	39	18.78	18.76	18.80
		75	0	17.87	17.82	17.86
	16-QAM	1	0	18.13	18.07	18.15
		1	37	18.07	18.19	18.03
		1	74	18.04	18.04	18.11
		36	0	17.95	17.87	17.94
		36	20	18.02	18.19	17.87
		36	39	17.89	18.13	17.49
		75	0	17.56	17.85	17.92
	64-QAM	1	0	17.24	17.40	17.09
		1	37	17.29	17.33	17.24
		1	74	17.17	17.31	17.18
		36	0	17.22	17.17	17.14
		36	20	17.26	17.28	17.07
		36	39	17.07	17.26	17.21
		75	0	17.33	17.22	17.14
20	QPSK	1	0	18.79	18.69	18.95
		1	49	18.73	18.63	18.81
		1	99	18.82	18.69	18.77
		50	0	18.79	18.81	18.82
		50	24	18.58	18.63	18.79
		50	50	18.72	18.69	18.82
		100	0	17.85	17.79	17.90
	16-QAM	1	0	18.14	18.18	18.10
		1	49	17.95	18.06	18.03



		1	99	18.01	18.12	18.02
		50	0	17.89	17.85	17.88
		50	24	18.01	18.10	18.00
		50	50	17.93	18.07	18.04
		100	0	17.86	17.85	17.93
	64-QAM	1	0	17.19	17.32	17.21
		1	49	17.15	17.29	17.26
		1	99	17.07	17.48	17.35
		50	0	17.22	17.14	17.09
		50	24	17.05	17.48	17.35
		50	50	17.12	17.30	17.27
		100	0	17.26	17.18	17.23



LTE Band 12						
Bandwidth	Modulation	RB	RB	Measured ERP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	17.56	17.54	17.54
		1	3	17.58	17.49	17.57
		1	5	17.62	17.45	17.52
		3	0	17.70	17.70	17.55
		3	1	17.55	17.52	17.54
		3	3	17.57	17.51	17.58
		6	0	16.63	16.56	16.60
	16-QAM	1	0	16.70	16.58	16.55
		1	3	16.67	16.59	16.58
		1	5	16.69	16.55	16.56
		3	0	16.66	16.74	16.83
		3	1	16.71	16.62	16.60
		3	3	16.73	16.58	16.53
		6	0	15.72	15.61	15.70
	64-QAM	1	0	16.34	16.29	16.36
		1	3	16.39	16.21	16.41
		1	5	16.35	16.27	16.35
		3	0	16.37	16.48	16.31
		3	1	16.32	16.29	16.36
		3	3	16.24	16.27	16.34
		6	0	15.41	15.35	15.41
3	QPSK	1	0	17.50	17.64	17.60
		1	8	17.58	17.60	17.52
		1	14	17.61	17.58	17.44
		8	0	17.54	17.51	17.58
		8	4	17.63	17.61	17.65
		8	7	17.57	17.55	17.57
		15	0	16.62	16.63	16.62
	16-QAM	1	0	16.58	16.67	16.79
		1	8	16.63	16.79	16.97
		1	14	16.66	16.74	16.93
		8	0	16.55	16.67	15.68
		8	4	16.67	16.64	16.94
		8	7	16.60	16.75	17.01



	64-QAM	15	0	15.70	15.64	15.78
		1	0	16.33	16.46	16.35
		1	8	16.40	16.43	16.52
		1	14	16.26	16.47	16.44
		8	0	16.30	16.34	16.30
		8	4	16.24	16.49	16.46
		8	7	16.15	16.45	16.27
5	QPSK	1	0	17.63	16.57	17.60
		1	12	17.58	17.51	17.52
		1	24	17.51	17.49	17.45
		12	0	17.61	17.36	17.56
		12	7	17.51	17.48	17.47
		12	13	17.58	17.54	17.49
		50	0	16.60	16.68	16.61
	16-QAM	1	0	16.76	16.52	16.70
		1	12	16.90	16.47	16.76
		1	24	16.81	16.46	16.82
		12	0	16.64	16.64	16.64
		12	7	16.80	16.46	16.68
		12	13	16.88	16.50	16.75
		50	0	15.72	15.77	15.70
	64-QAM	1	0	16.38	16.34	16.24
		1	12	16.54	16.16	16.10
		1	24	16.49	16.14	16.11
		12	0	16.35	16.42	16.04
		12	7	16.47	16.15	16.12
		12	13	16.54	16.14	16.09
		50	0	15.38	15.50	15.46
10	QPSK	1	0	17.57	17.58	17.63
		1	24	17.53	17.56	17.56
		1	49	17.51	17.61	17.52
		25	0	17.69	17.70	17.55
		25	12	17.47	17.65	17.53
		25	25	17.55	17.52	17.60
		50	0	16.73	16.69	16.57
	16-QAM	1	0	16.98	16.54	16.84
		1	24	17.12	16.58	16.92



		1	49	17.13	16.66	16.96
		25	0	16.83	16.55	16.68
		25	12	17.14	16.63	16.99
		25	25	17.12	16.59	16.93
		50	0	15.80	15.77	15.66
	64-QAM	1	0	16.42	16.35	16.38
		1	24	16.35	16.42	16.30
		1	49	16.41	16.34	16.17
		25	0	16.45	16.46	16.34
		25	12	16.36	16.33	16.36
		25	25	16.39	16.20	16.22
		50	0	15.48	15.49	15.39



LTE Band 13						
Bandwidth	Modulation	RB	RB	Measured ERP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	17.57	17.78	16.66
		1	12	17.64	17.75	17.68
		1	24	17.70	17.84	17.60
		12	0	16.60	17.79	17.63
		12	7	17.71	17.74	17.59
		12	13	17.69	17.80	17.70
		50	0	16.57	16.70	16.64
	16-QAM	1	0	16.79	16.69	16.65
		1	12	16.82	16.63	16.73
		1	24	16.80	16.64	16.74
		12	0	16.68	16.67	16.82
		12	7	16.81	16.60	16.75
		12	13	16.76	16.56	16.72
		50	0	15.58	15.72	15.75
	64-QAM	1	0	16.29	16.24	16.47
		1	12	16.31	16.16	16.44
		1	24	16.24	16.18	16.50
		12	0	16.30	16.37	16.26
		12	7	16.32	16.15	16.53
		12	13	16.18	16.17	16.48
		50	0	15.26	15.44	15.30
10	QPSK	1	0	/	17.75	/
		1	24	/	17.84	/
		1	49	/	17.79	/
		25	0	/	16.76	/
		25	12	/	17.83	/
		25	25	/	17.81	/
		50	0	/	16.69	/
	16-QAM	1	0	/	16.52	/
		1	24	/	16.37	/
		1	49	/	16.43	/
		25	0	/	16.46	/
		25	12	/	16.44	/
		25	25	/	16.40	/



		50	0	/	15.67	/
	64-QAM	1	0	/	16.38	/
		1	24	/	16.30	/
		1	49	/	16.36	/
		25	0	/	16.24	/
		25	12	/	16.33	/
		25	25	/	16.30	/
		50	0	/	15.43	/



LTE Band 17						
Bandwidth	Modulation	RB	RB	Measured ERP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	17.57	17.64	17.64
		1	12	17.62	17.60	17.56
		1	24	17.64	17.62	17.59
		12	0	17.56	17.67	17.65
		12	7	17.61	17.56	17.55
		12	13	17.66	17.63	17.60
		50	0	16.75	16.62	16.71
	16-QAM	1	0	16.79	16.57	16.45
		1	12	16.70	16.50	16.47
		1	24	16.83	16.55	16.50
		12	0	16.83	16.66	16.57
		12	7	16.82	16.54	16.52
		12	13	16.79	16.52	16.44
		50	0	15.84	15.78	15.83
	64-QAM	1	0	16.32	16.58	16.20
		1	12	16.25	16.61	16.32
		1	24	16.27	16.65	16.24
		12	0	16.49	16.40	16.15
		12	7	16.24	16.66	16.30
		12	13	16.29	16.62	16.13
		50	0	15.55	15.41	15.46
10	QPSK	1	0	17.57	17.63	17.69
		1	24	17.61	17.70	17.64
		1	49	17.64	17.66	17.56
		25	0	16.65	17.64	17.62
		25	12	17.64	17.69	17.66
		25	25	17.62	17.67	17.68
		50	0	16.72	16.68	16.72
	16-QAM	1	0	16.89	16.65	16.84
		1	24	16.92	16.69	16.88
		1	49	16.96	16.70	16.90
		25	0	16.79	16.78	16.76
		25	12	16.87	16.65	16.93
		25	25	16.94	16.68	16.87



REPORT No. : XM19020007W08

		50	0	15.76	15.76	15.76
	64-QAM	1	0	16.37	16.38	16.29
		1	24	16.53	16.49	16.34
		1	49	16.50	16.35	16.22
		25	0	16.40	16.46	16.43
		25	12	16.55	16.33	16.16
		25	25	16.50	16.26	16.10
		50	0	15.48	15.41	15.44



LTE Band 25						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	19.34	19.28	19.27
		1	3	19.35	19.34	19.28
		1	5	19.36	19.30	19.21
		3	0	19.33	19.35	19.29
		3	1	19.37	19.30	19.25
		3	3	19.38	19.33	19.33
		6	0	18.46	18.40	18.36
	16-QAM	1	0	18.42	18.22	18.18
		1	3	18.46	18.25	18.22
		1	5	18.41	18.27	18.20
		3	0	18.45	18.47	18.41
		3	1	18.47	18.25	18.28
		3	3	18.49	18.30	18.24
		6	0	17.52	17.59	17.55
	64-QAM	1	0	18.34	18.35	18.19
		1	3	18.38	18.20	18.16
		1	5	18.29	18.23	18.13
		3	0	18.23	18.15	18.04
		3	1	18.40	18.26	18.17
		3	3	18.36	18.24	18.15
		6	0	18.41	18.49	18.20
3	QPSK	1	0	19.39	19.31	19.39
		1	8	19.32	19.34	19.36
		1	14	19.44	19.40	19.40
		8	0	18.33	18.28	19.28
		8	4	19.41	19.38	19.32
		8	7	19.30	19.32	19.37
		15	0	18.34	18.28	18.31
	16-QAM	1	0	18.85	18.29	18.34
		1	8	18.80	18.23	18.22
		1	14	18.89	18.37	18.37
		8	0	18.92	18.24	18.25
		8	4	18.87	18.31	18.29
		8	7	18.85	18.30	18.26



	64-QAM	15	0	18.46	18.38	18.36
		1	0	18.30	18.68	18.28
		1	8	18.37	18.71	18.25
		1	14	18.43	18.65	18.21
		8	0	18.29	18.25	18.12
		8	4	18.41	18.68	18.29
		8	7	18.36	18.60	18.10
5	QPSK	15	0	18.23	18.22	18.05
		1	0	19.31	19.36	19.27
		1	12	19.25	19.22	19.20
		1	24	19.34	19.27	19.21
		12	0	19.35	19.35	19.19
		12	7	19.33	19.28	19.22
		12	13	19.26	19.25	19.23
	16-QAM	50	0	18.32	18.32	18.27
		1	0	18.65	18.41	18.18
		1	12	18.51	18.45	18.05
		1	24	18.54	18.49	18.06
		12	0	18.37	18.33	18.21
		12	7	18.58	18.48	18.05
		12	13	18.53	18.46	18.06
	64-QAM	50	0	18.31	18.31	18.35
		1	0	18.39	18.47	18.15
		1	12	18.42	18.55	18.22
		1	24	18.46	18.48	18.20
		12	0	18.28	18.41	17.99
		12	7	18.34	18.38	18.27
		12	13	18.40	18.50	18.24
10	QPSK	50	0	18.22	18.27	18.06
		1	0	19.39	19.20	19.31
		1	24	19.28	19.23	19.27
		1	49	19.33	19.29	19.23
		25	0	19.37	19.35	19.20
		25	12	19.34	19.31	19.24
		25	25	19.31	19.22	19.28
	16-QAM	50	0	18.36	18.37	18.22
		1	0	18.72	18.78	18.68
		1	24	18.79	18.72	18.65



		1	49	18.85	18.74	18.70	
		25	0	18.48	18.69	18.57	
		25	12	18.83	18.75	18.74	
		25	25	18.81	18.73	18.68	
		50	0	18.41	18.44	18.44	
	64-QAM	1	0	18.60	18.49	18.39	
		1	24	18.67	18.54	18.43	
		1	49	18.76	18.60	18.36	
		25	0	18.37	18.29	18.10	
		25	12	18.75	18.66	18.25	
		25	25	18.66	18.57	18.33	
	15	QPSK	1	0	19.30	19.38	19.19
			1	37	19.24	19.20	19.22
1			74	19.37	19.31	19.27	
36			0	19.49	19.42	19.33	
36			20	19.36	19.32	19.28	
36			39	19.29	19.29	19.26	
75			0	18.44	18.47	18.42	
16-QAM		1	0	18.52	18.43	18.35	
		1	37	18.36	18.39	18.30	
		1	74	18.47	18.40	18.37	
		36	0	18.44	18.36	18.29	
		36	20	18.48	18.41	18.37	
		36	39	18.35	18.32	18.33	
	75	0	18.43	18.46	18.42		
64-QAM	1	0	18.30	18.50	18.19		
	1	37	18.24	18.52	18.06		
	1	74	18.31	18.66	18.25		
	36	0	18.34	18.24	18.09		
	36	20	18.39	18.69	18.21		
	36	39	18.27	18.51	18.06		
	75	0	18.37	18.33	18.24		
20	QPSK	1	0	19.38	19.31	19.26	
		1	49	19.25	19.16	19.18	
		1	99	19.32	19.25	19.22	
		50	0	19.42	19.24	19.13	
		50	24	19.30	19.24	19.29	



		50	50	19.25	19.20	19.22
		100	0	18.40	18.36	18.31
	16-QAM	1	0	18.57	18.38	18.44
		1	49	18.49	18.35	18.40
		1	99	18.53	18.40	18.48
		50	0	18.44	18.29	18.18
		50	24	18.58	18.42	18.47
		50	50	18.49	18.35	18.43
		100	0	18.46	18.41	18.36
	64-QAM	1	0	18.39	18.32	18.10
		1	49	18.35	18.27	18.07
		1	99	18.47	18.43	18.22
		50	0	18.20	18.14	17.93
		50	24	18.47	18.39	18.18
		50	50	18.32	18.21	18.07
100		0	17.52	17.56	17.65	



LTE Band 26						
Bandwidth	Modulation	RB	RB	Measured ERP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	18.60	17.90	17.15
		1	3	18.75	17.99	17.19
		1	5	18.67	18.01	17.16
		3	0	18.61	18.06	17.28
		3	1	18.70	17.98	17.20
		3	3	18.63	17.90	17.13
		6	0	17.74	17.08	16.26
	16-QAM	1	0	17.47	17.13	16.21
		1	3	17.56	17.16	16.27
		1	5	17.52	17.08	16.25
		3	0	17.67	17.06	16.32
		3	1	17.55	17.20	16.23
		3	3	17.45	17.07	16.25
		6	0	16.70	16.13	15.21
	64-QAM	1	0	17.78	16.78	15.98
		1	3	17.89	16.82	16.00
		1	5	17.87	16.88	15.95
		3	0	17.69	16.71	15.92
		3	1	17.86	16.87	16.05
		3	3	17.79	16.79	15.97
		6	0	16.92	15.80	14.98
3	QPSK	1	0	18.72	18.01	17.17
		1	8	18.50	17.85	17.12
		1	14	18.80	18.05	17.30
		8	0	18.47	16.98	17.15
		8	4	18.80	18.06	17.28
		8	7	18.51	17.86	17.19
		15	0	17.57	17.08	16.25
	16-QAM	1	0	17.91	17.52	16.63
		1	8	17.85	17.44	16.68
		1	14	18.04	17.64	16.85
		8	0	17.55	16.98	16.41
		8	4	18.08	17.31	16.86
		8	7	17.87	17.43	16.49



	64-QAM	15	0	16.63	16.12	15.34
		1	0	17.75	17.06	16.08
		1	8	17.72	17.11	16.00
		1	14	17.92	17.14	16.17
		8	0	17.70	16.98	15.90
		8	4	17.95	16.91	16.12
		8	7	17.65	17.15	16.00
5	QPSK	15	0	16.70	15.83	14.89
		1	0	18.50	17.93	17.14
		1	12	18.24	17.79	17.06
		1	24	18.62	18.02	17.23
		12	0	18.36	17.96	17.20
		12	7	18.59	18.03	17.25
		12	13	18.22	17.80	17.09
	16-QAM	50	0	17.44	17.05	16.30
		1	0	17.31	17.19	16.34
		1	12	17.09	17.10	16.27
		1	24	17.36	17.22	16.21
		12	0	17.37	16.98	16.16
		12	7	17.34	17.28	16.19
		12	13	17.06	17.11	16.01
	64-QAM	50	0	16.57	16.07	15.38
		1	0	17.75	16.74	16.00
		1	12	17.81	16.57	16.07
		1	24	17.53	16.81	16.32
		12	0	17.72	16.59	16.06
		12	7	17.55	16.83	16.33
		12	13	17.42	16.58	16.10
10	QPSK	50	0	16.69	15.74	14.97
		1	0	18.34	17.81	17.39
		1	24	18.31	17.75	17.18
		1	49	18.62	18.20	17.42
		25	0	18.21	17.95	17.26
		25	12	18.65	18.19	17.48
		25	25	18.27	17.72	17.15
	16-QAM	50	0	17.26	17.12	16.46
		1	0	17.45	17.04	16.65
		1	24	17.51	16.92	16.37



		1	49	17.58	16.97	16.74	
		25	0	17.24	16.99	16.60	
		25	12	17.49	16.91	16.73	
		25	25	17.55	16.94	16.61	
		50	0	16.34	16.11	15.49	
	64-QAM	1	0	17.77	16.78	16.17	
		1	24	17.64	16.95	16.34	
		1	49	18.11	17.01	16.12	
		25	0	17.86	16.68	16.15	
		25	12	17.93	16.93	16.21	
		25	25	17.61	16.97	16.06	
	15	QPSK	1	0	18.64	17.69	17.22
			1	37	18.58	17.53	17.15
1			74	18.56	17.96	17.48	
36			0	18.17	17.89	16.37	
36			20	18.46	18.00	17.53	
36			39	18.47	17.72	17.38	
75			0	17.21	17.16	16.65	
16-QAM		1	0	17.17	16.90	16.59	
		1	37	17.13	16.95	16.53	
		1	74	17.62	17.12	16.35	
		36	0	16.31	16.83	16.33	
		36	20	17.58	17.13	17.20	
		36	39	17.14	16.99	16.55	
	75	0	16.23	16.11	15.60		
64-QAM	1	0	17.77	16.59	16.14		
	1	37	17.70	16.77	15.89		
	1	74	18.03	17.02	16.13		
	36	0	17.88	16.51	14.98		
	36	20	17.93	16.63	16.06		
	36	39	17.70	16.78	15.93		
	75	0	16.37	15.81	15.27		



LTE Band 41						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	22.75	22.75	22.71
		1	12	22.91	22.98	22.89
		1	24	22.76	22.79	22.71
		12	0	21.77	21.83	21.87
		12	7	21.89	21.82	21.86
		12	13	21.81	21.86	21.83
		50	0	21.82	21.84	21.87
	16-QAM	1	0	21.92	21.77	21.74
		1	12	22.07	21.93	21.92
		1	24	21.94	21.70	21.72
		12	0	20.78	20.88	20.83
		12	7	20.80	20.87	20.87
		12	13	20.82	20.85	20.80
		50	0	20.79	20.97	20.90
	64-QAM	1	0	21.26	20.34	20.49
		1	12	21.42	21.67	21.49
		1	24	21.26	21.50	21.32
		12	0	20.31	20.32	20.42
		12	7	20.37	20.41	20.45
		12	13	20.35	20.38	20.42
		50	0	20.39	20.37	20.49
10	QPSK	1	0	22.93	22.90	22.83
		1	24	23.19	23.19	23.16
		1	49	22.80	22.89	22.83
		25	0	21.85	21.93	21.96
		25	12	21.86	21.98	21.97
		25	25	21.87	21.92	21.86
		50	0	21.81	21.86	21.91
	16-QAM	1	0	21.89	21.77	22.00
		1	24	22.17	22.08	22.29
		1	49	21.84	21.72	21.98
		25	0	20.87	20.95	20.97
		25	12	20.88	20.99	20.90
		25	25	20.89	20.94	20.85



	64-QAM	50	0	20.85	20.89	20.92
		1	0	21.44	20.35	20.46
		1	24	21.70	21.56	21.81
		1	49	21.37	21.29	21.51
		25	0	20.42	20.46	20.52
		25	12	20.43	20.41	20.51
		25	25	20.45	20.44	20.41
15	QPSK	50	0	20.32	20.39	20.45
		1	0	22.80	22.90	22.87
		1	37	22.82	22.99	22.90
		1	74	22.70	22.87	22.82
		36	0	21.94	22.04	21.78
		36	20	21.98	22.12	21.82
		36	39	21.88	22.06	21.73
	16-QAM	75	0	21.95	22.08	22.03
		1	0	21.93	22.02	21.76
		1	37	21.98	22.13	21.81
		1	74	21.86	21.98	21.72
		36	0	21.97	22.06	21.81
		36	20	21.96	22.12	21.81
		36	39	21.90	21.99	21.71
	64-QAM	75	0	20.84	20.95	20.98
		1	0	21.51	20.44	20.44
		1	37	21.57	21.33	21.52
		1	74	21.41	21.21	21.45
		36	0	21.53	21.27	21.55
		36	20	21.56	21.35	21.56
		36	39	21.45	21.23	21.46
20	QPSK	75	0	20.42	20.46	20.44
		1	0	22.90	22.78	22.84
		1	49	23.15	23.10	23.19
		1	99	22.97	22.74	22.77
		50	0	21.74	21.88	21.94
		50	24	21.77	21.86	21.95
		50	50	21.81	21.89	21.78
	16-QAM	100	0	21.75	21.85	21.86
		1	0	22.05	21.76	21.85
		1	49	22.31	22.12	22.14



		1	99	21.89	21.71	21.79
		50	0	20.75	20.90	20.93
		50	24	20.78	20.97	20.93
		50	50	20.83	20.92	20.82
		100	0	20.80	20.86	20.85
	64-QAM	1	0	21.57	21.25	21.36
		1	49	21.84	21.59	21.66
		1	99	21.45	21.20	21.29
		50	0	20.29	20.41	20.45
		50	24	20.28	20.42	20.43
		50	50	20.37	20.45	20.33
		100	0	20.30	20.37	20.41



LTE Band 66						
Bandwidth	Modulation	RB	RB	Measured EIRP		
				Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
1.4	QPSK	1	0	19.14	19.07	19.20
		1	3	19.29	19.19	19.33
		1	5	19.16	19.09	19.17
		3	0	19.34	19.25	19.30
		3	1	19.37	19.25	19.15
		3	3	19.34	19.26	19.03
		6	0	18.26	18.18	18.28
	16-QAM	1	0	18.38	18.27	18.31
		1	3	18.56	18.41	18.45
		1	5	18.33	18.29	18.30
		3	0	18.29	18.22	18.28
		3	1	18.31	18.24	18.22
		3	3	18.26	18.16	18.19
		6	0	17.33	17.24	17.33
	64-QAM	1	0	17.86	17.81	17.90
		1	3	18.04	18.06	18.01
		1	5	17.88	17.85	17.91
		3	0	17.81	17.72	17.77
		3	1	17.80	17.75	17.78
		3	3	17.79	17.66	17.77
		6	0	16.86	16.81	16.71
3	QPSK	1	0	19.18	19.21	19.30
		1	8	19.22	19.27	19.28
		1	14	19.20	19.23	19.31
		8	0	19.13	19.20	18.99
		8	4	19.28	19.28	18.85
		8	7	19.30	19.24	18.90
		15	0	18.43	18.22	18.33
	16-QAM	1	0	18.57	18.50	18.24
		1	8	18.49	18.45	18.25
		1	14	18.47	18.36	18.27
		8	0	18.42	18.33	17.98
		8	4	18.45	18.29	17.94
		8	7	18.39	18.29	17.89



	64-QAM	15	0	17.40	17.22	17.25
		1	0	17.95	18.00	17.81
		1	8	18.00	17.94	17.70
		1	14	18.00	17.90	17.78
		8	0	17.93	17.83	17.91
		8	4	17.92	17.85	16.86
		8	7	17.92	17.81	16.88
5	QPSK	1	0	19.26	19.15	19.21
		1	12	19.39	19.30	19.35
		1	24	19.17	19.13	19.19
		12	0	19.32	19.24	18.31
		12	7	19.37	19.26	18.34
		12	13	19.36	19.26	18.28
		50	0	18.37	18.30	18.35
	16-QAM	1	0	18.32	18.30	18.45
		1	12	18.41	18.36	18.57
		1	24	18.30	18.24	18.40
		12	0	18.36	18.31	17.38
		12	7	18.35	18.29	17.39
		12	13	18.40	18.26	17.32
		50	0	17.46	17.38	17.34
	64-QAM	1	0	17.80	17.78	17.94
		1	12	17.93	17.84	18.07
		1	24	17.79	17.75	17.96
		12	0	17.86	17.80	17.86
		12	7	17.86	17.78	17.88
		12	13	17.93	17.71	16.83
		50	0	16.94	16.83	16.83
10	QPSK	1	0	19.22	19.17	19.19
		1	24	19.30	19.20	19.35
		1	49	19.22	19.15	19.15
		25	0	18.41	18.83	18.91
		25	12	18.98	18.90	18.84
		25	25	19.13	18.93	18.90
		50	0	18.42	18.29	18.38
	16-QAM	1	0	18.57	18.44	18.47
		1	24	18.63	18.57	18.52



		1	49	18.48	18.44	18.38	
		25	0	18.44	18.33	17.97	
		25	12	18.42	18.36	17.80	
		25	25	18.49	18.30	17.92	
		50	0	17.44	17.28	17.41	
	64-QAM	1	0	18.02	17.93	17.96	
		1	24	18.16	18.07	18.06	
		1	49	17.97	17.86	17.95	
		25	0	17.92	17.86	17.81	
		25	12	17.99	17.84	17.97	
		25	25	17.95	17.88	17.93	
	15	QPSK	1	0	19.18	19.10	19.22
			1	37	19.21	19.23	19.29
1			74	19.08	19.07	19.17	
36			0	18.95	18.87	18.51	
36			20	18.91	18.96	18.60	
36			39	18.85	18.82	18.44	
75			0	18.39	18.34	18.47	
16-QAM		1	0	18.50	18.42	18.53	
		1	37	18.46	18.46	18.59	
		1	74	18.38	18.35	18.40	
		36	0	18.47	18.39	18.43	
		36	20	18.49	18.45	18.42	
		36	39	18.38	18.36	18.49	
		75	0	17.34	17.30	17.41	
64-QAM		1	0	17.97	17.94	18.05	
		1	37	18.00	17.96	18.12	
		1	74	17.90	17.85	17.95	
		36	0	17.97	17.96	17.56	
		36	20	17.97	17.98	17.85	
		36	39	17.88	17.84	17.93	
		75	0	16.83	16.85	16.89	
20	QPSK	1	0	19.24	19.19	19.17	
		1	49	19.39	19.39	19.37	
		1	99	19.17	19.14	19.19	
		50	0	19.26	18.83	18.83	
		50	24	19.28	18.95	18.91	



		50	50	19.31	18.93	18.89
		100	0	18.28	18.88	18.36
	16-QAM	1	0	18.35	18.36	18.27
		1	49	18.47	18.47	18.41
		1	99	18.28	18.22	18.22
		50	0	18.32	17.84	17.95
		50	24	18.32	17.90	17.87
		50	50	18.30	17.93	17.90
		100	0	17.30	17.29	17.37
	64-QAM	1	0	17.86	17.78	17.88
		1	49	17.95	17.97	18.11
		1	99	17.83	17.69	17.88
		50	0	17.79	17.83	17.96
		50	24	17.79	17.84	17.90
		50	50	17.82	17.82	17.82
		100	0	16.77	16.79	16.85

LTE Band 71						
Bandwidth	Modulation	RB	RB	Low Channel	Middle Channel	High Channel
MHz		Size	Offset	dBm	dBm	dBm
5	QPSK	1	0	17.88	17.85	17.79
		1	12	17.95	17.89	17.91
		1	24	17.91	17.85	17.87
		12	0	17.75	17.86	17.81
		12	7	17.72	17.86	17.76
		12	13	17.9	17.82	17.85
		50	0	16.88	16.87	16.95
	16-QAM	1	0	16.86	16.83	16.99
		1	12	16.95	16.91	17.15
		1	24	16.9	16.88	17.1
		12	0	16.91	16.89	17
		12	7	16.91	16.91	17.01
		12	13	16.98	16.89	16.89
		50	0	16.02	15.98	15.93
	64-QAM	1	0	16.42	16.38	16.45
		1	12	16.51	16.44	16.65



		1	24	16.35	16.37	16.59
		12	0	16.43	16.41	16.5
		12	7	16.42	16.44	16.48
		12	13	16.49	16.42	16.4
		50	0	15.5	15.48	15.45
10	QPSK	1	0	17.85	17.79	17.79
		1	24	17.94	17.96	18.01
		1	49	17.81	17.87	17.89
		25	0	17.91	17.78	17.77
		25	12	17.91	17.73	17.74
		25	25	18.12	17.79	16.76
		50	0	17.01	16.94	16.93
	16-QAM	1	0	17.05	16.96	17
		1	24	17.21	17.16	17.16
		1	49	17.04	17.08	17.09
		25	0	16.94	17.06	17.03
		25	12	16.95	17.01	17.03
		25	25	17.16	17.06	16.96
		50	0	16.06	15.99	16
	64-QAM	1	0	16.53	16.46	16.49
		1	24	16.67	16.64	16.63
		1	49	16.51	16.55	16.58
		25	0	16.43	16.56	16.58
		25	12	16.46	16.52	16.56
		25	25	16.28	16.57	16.46
		50	0	15.56	15.49	15.48
15	QPSK	1	0	17.75	17.73	17.74
		1	37	17.84	17.82	17.83
		1	74	17.65	17.71	17.85
		36	0	17.62	17.56	17.77
		36	20	17.55	17.62	17.62
		36	39	17.7	17.68	17.64
		75	0	16.96	17.03	16.9
	16-QAM	1	0	16.99	16.95	17.05
		1	37	17.02	17.04	17.1
		1	74	16.99	16.9	17.12
		36	0	16.99	16.95	17.07
		36	20	17.09	17.06	17.05



		36	39	16.95	16.91	17.1
		75	0	15.92	15.92	15.9
	64-QAM	1	0	16.5	16.42	16.61
		1	37	16.56	16.53	16.63
		1	74	16.49	16.45	16.56
		36	0	16.5	16.49	16.6
		36	20	16.55	16.54	16.62
		36	39	16.45	16.45	16.64
		75	0	15.47	15.51	15.38
20	QPSK	1	0	17.83	17.7	17.61
		1	49	18.06	18.01	17.79
		1	99	17.87	17.78	17.71
		50	0	17.61	17.75	17.77
		50	24	17.59	17.9	17.73
		50	50	17.8	17.82	17.65
		100	0	16.72	16.94	16.71
	16-QAM	1	0	16.85	16.92	16.74
		1	49	17.02	17.2	16.99
		1	99	16.88	16.95	16.8
		50	0	16.62	16.68	16.83
		50	24	16.66	16.94	16.79
		50	50	16.6	16.63	16.75
		100	0	15.76	15.98	15.75
	64-QAM	1	0	16.3	16.27	16.44
		1	49	16.54	16.57	16.64
		1	99	16.34	16.34	16.52
		50	0	16.21	16.17	16.32
		50	24	16.22	16.23	16.33
		50	50	16.38	16.32	16.3
		100	0	15.24	15.45	15.23



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.

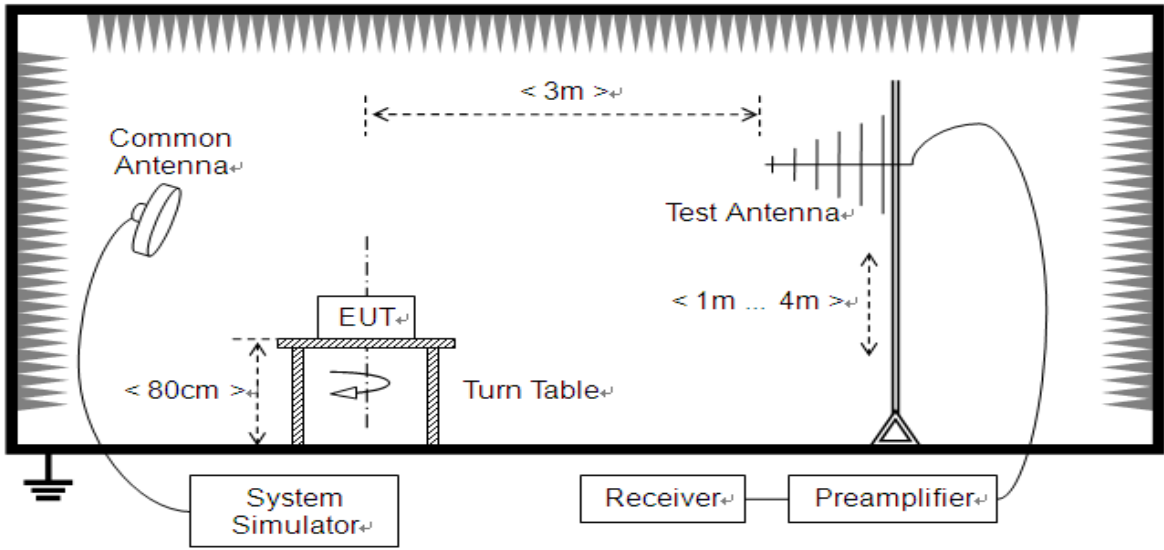
For operating in the 770-788MHz, emissions in the band 1559-1610MHz shall be limited to -70dBW/MHz. The limit of emission is equal to -40dBm

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.

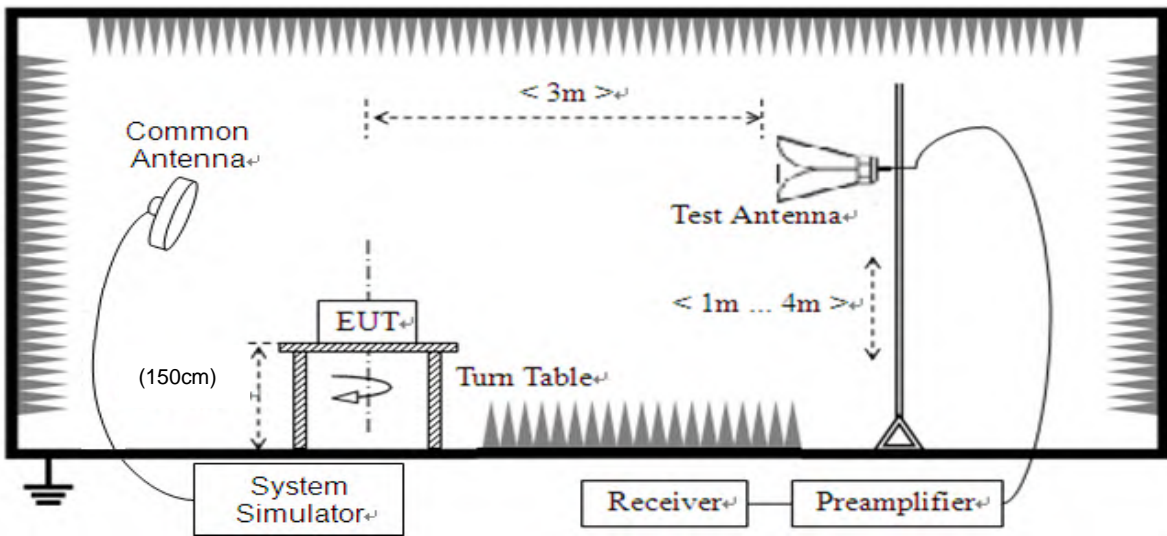
According to FCC section 27.53(h), For operations in the 1710–1785MHz bands, the power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB.

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



(For the test frequency from 30MHz to 1GHz)



(For the test frequency above 1GHz)

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

KDB971168 D01 v03r01 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.

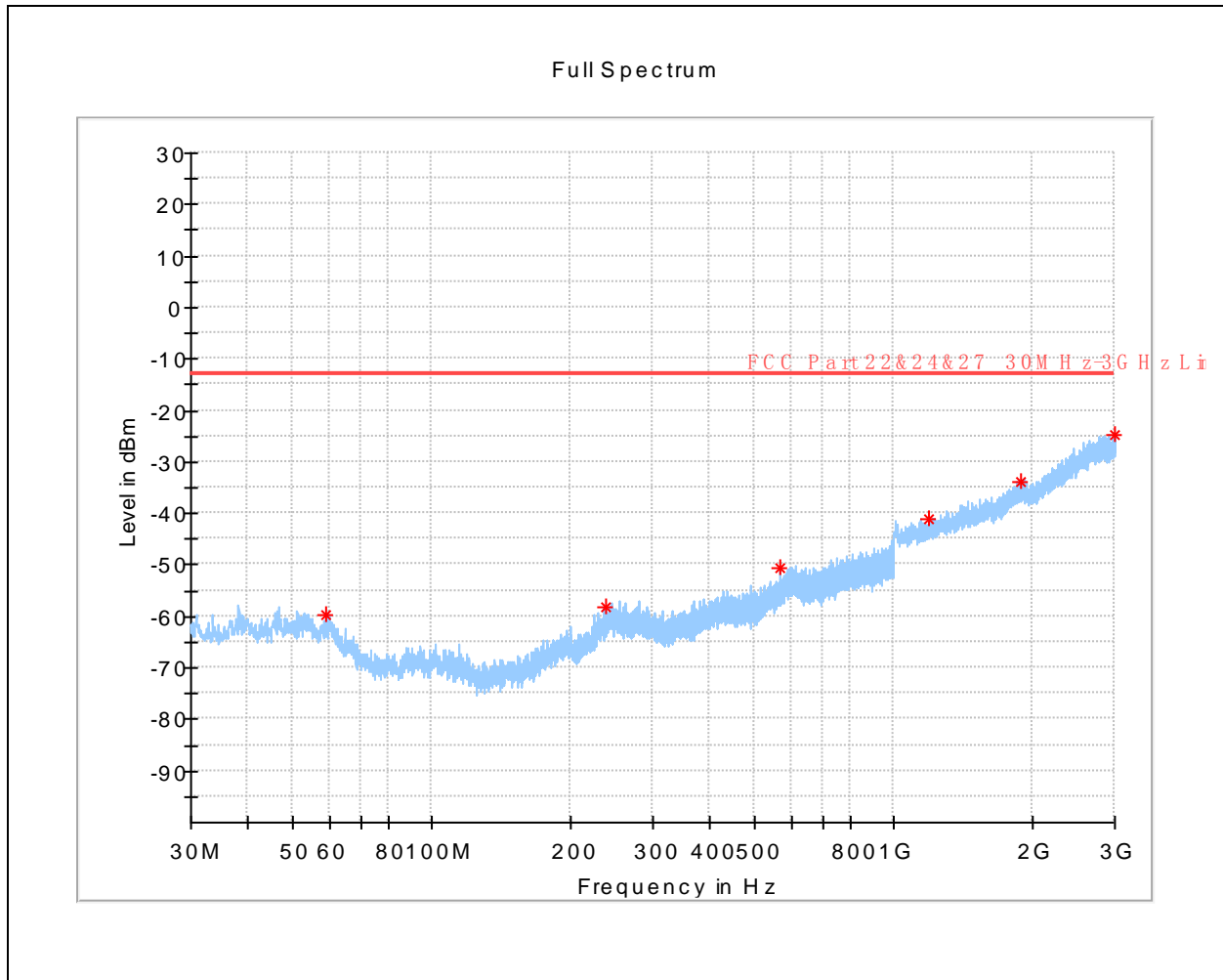
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis Y axis test condition was recorded in this test report.

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.

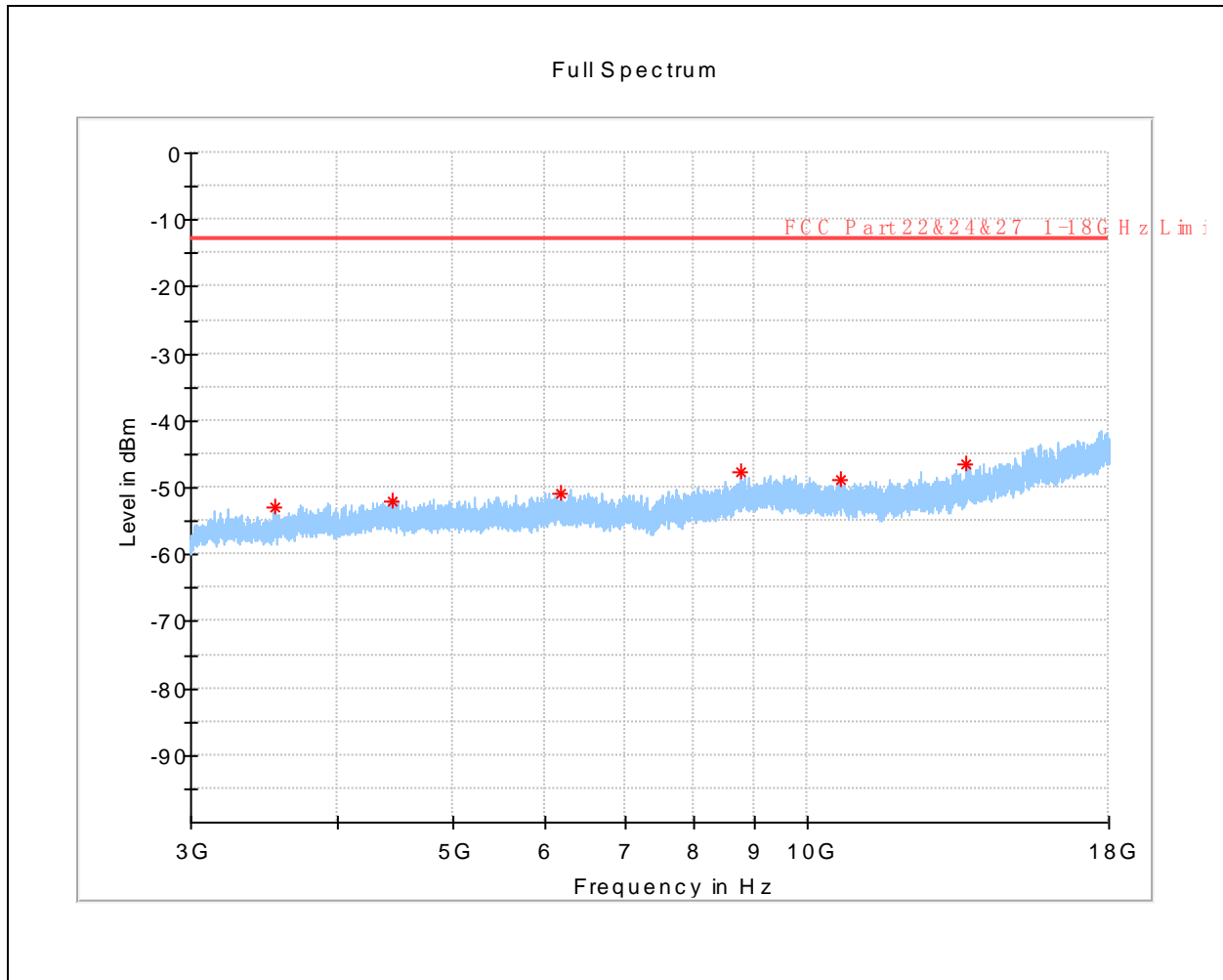
Note5: For the frequency, which started from 18GHz to 40GHz, was pre-scanned and the result which was 10dB lower than the limit was not recorded.

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



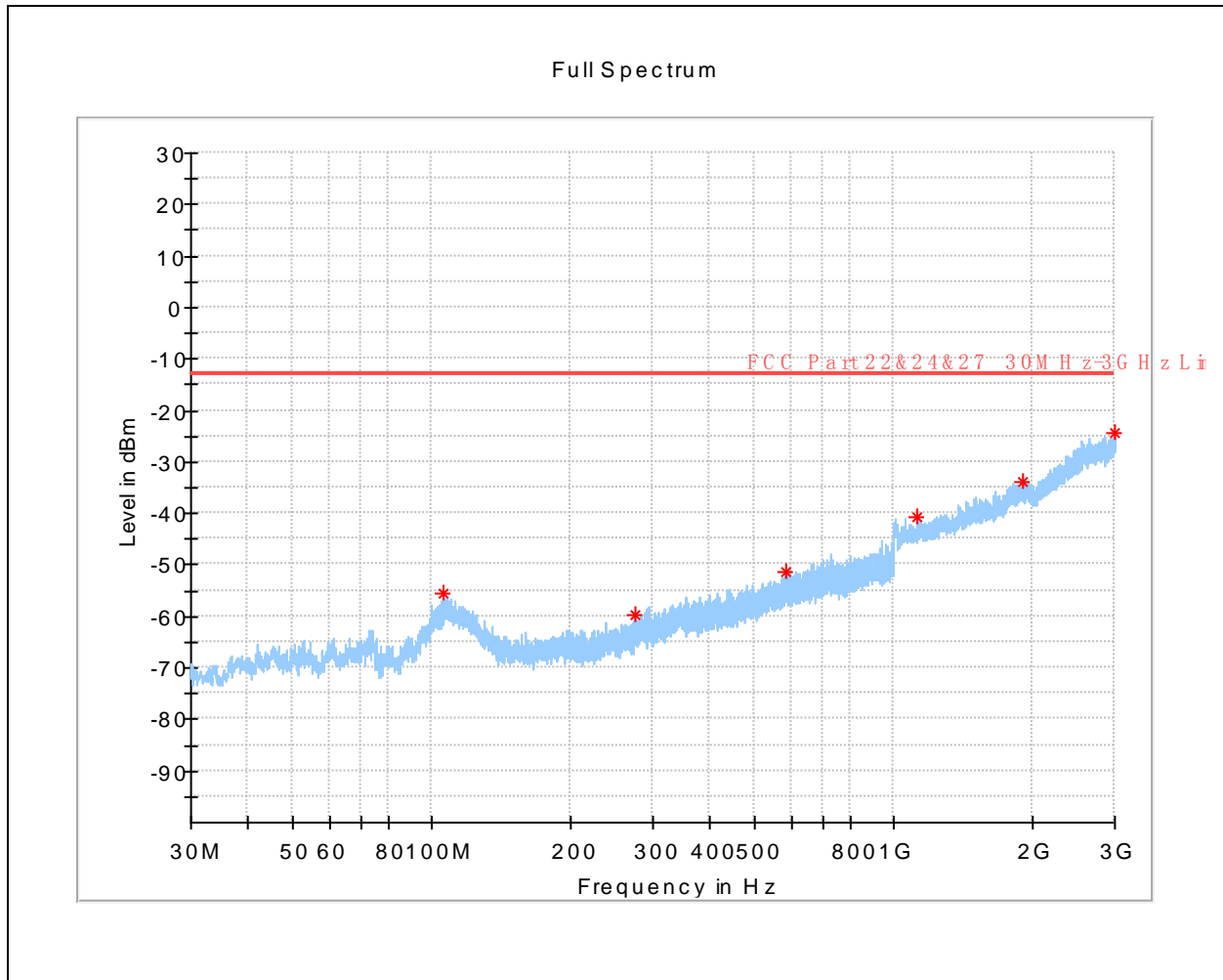
(LTE Band 2 _QPSK_ Low Channel _ 30MHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
59.051500	-59.84	-13.00	46.84	H	-77.9
237.919500	-58.18	-13.00	45.18	H	-77.8
567.525500	-50.70	-13.00	37.70	H	-72.3
1185.000000	-40.98	-13.00	27.98	H	-64.9
1880.500000	-33.73	-13.00	20.73	H	-58.4
2995.500000	-24.60	-13.00	11.60	H	-50.3

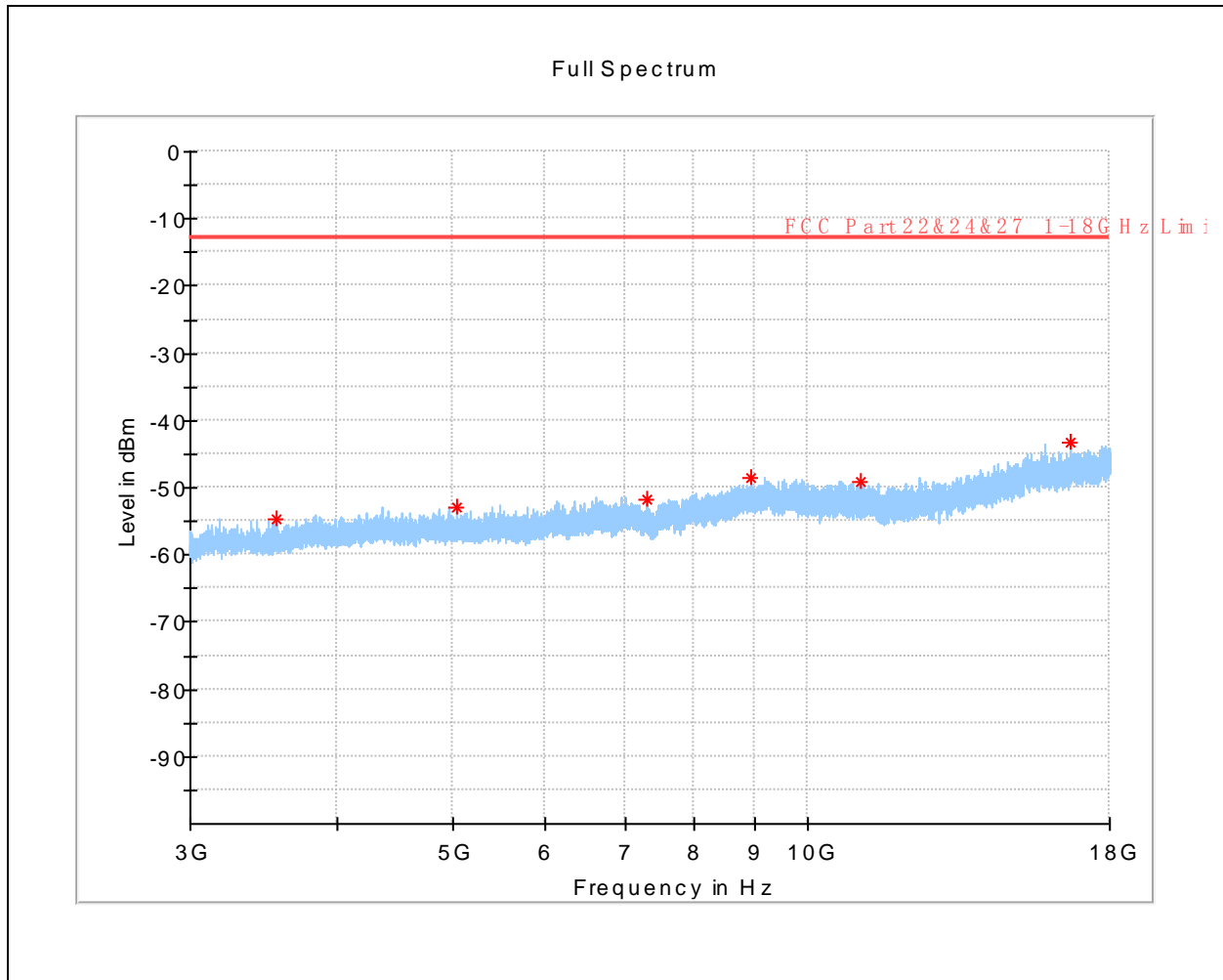


(LTE Band 2 _QPSK _ Low Channel _ 3GHz to 18GHz _ Horizontal)

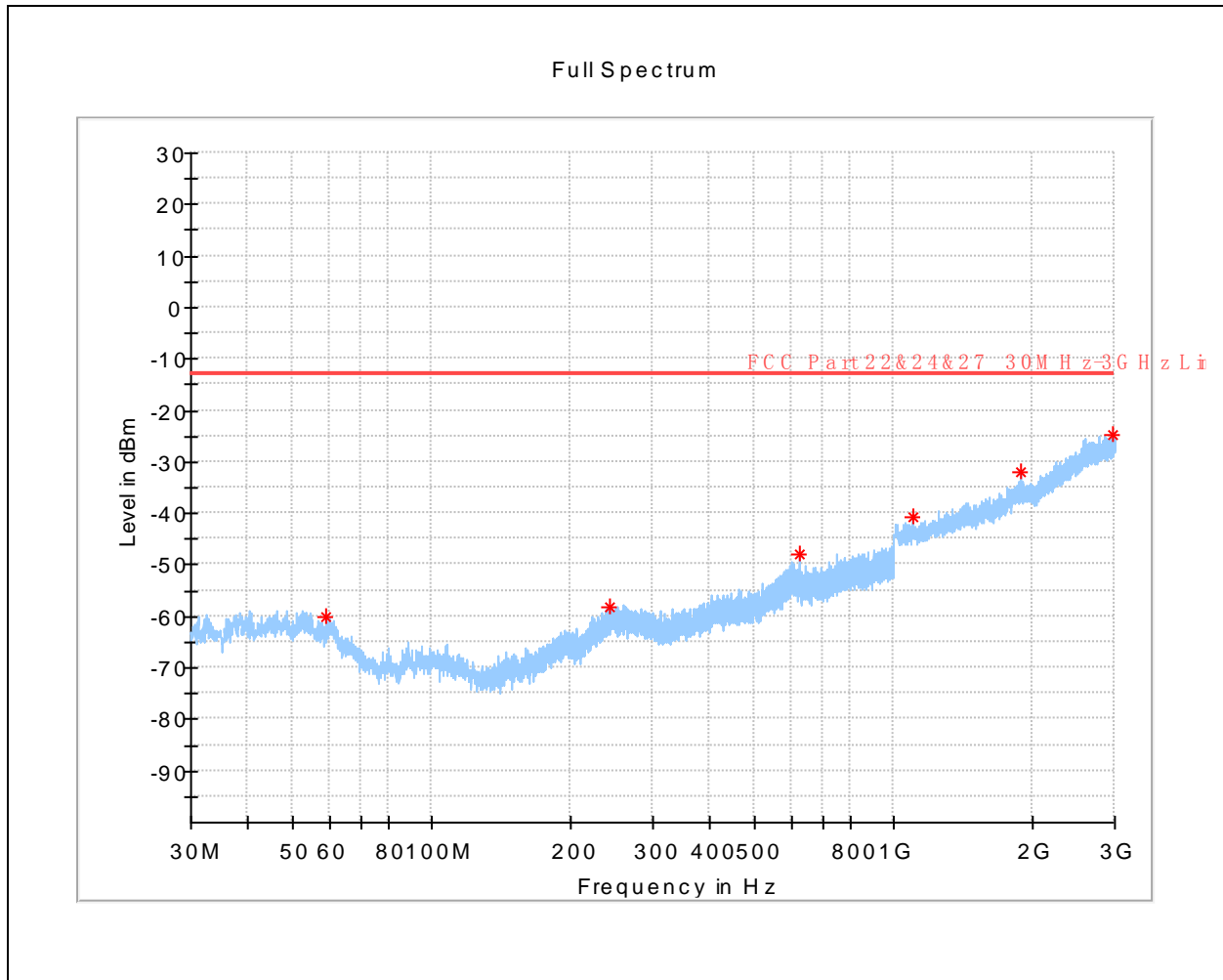
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3529.218750	-52.82	-13.00	39.82	H	-100.1
4439.531250	-51.98	-13.00	38.98	H	-97.7
6180.000000	-50.87	-13.00	37.87	H	-95.9
8791.406250	-47.76	-13.00	34.76	H	-93.0
10660.312500	-48.84	-13.00	35.84	H	-92.6
13615.312500	-46.42	-13.00	33.42	H	-89.2



Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
106.048000	-55.51	-13.00	42.51	V	-75.0
273.470000	-59.54	-13.00	46.54	V	-80.1
584.743000	-51.33	-13.00	38.33	V	-71.6
1119.500000	-40.54	-13.00	27.54	V	-65.8
1892.500000	-33.67	-13.00	20.67	V	-58.4
2992.000000	-24.42	-13.00	11.42	V	-50.3

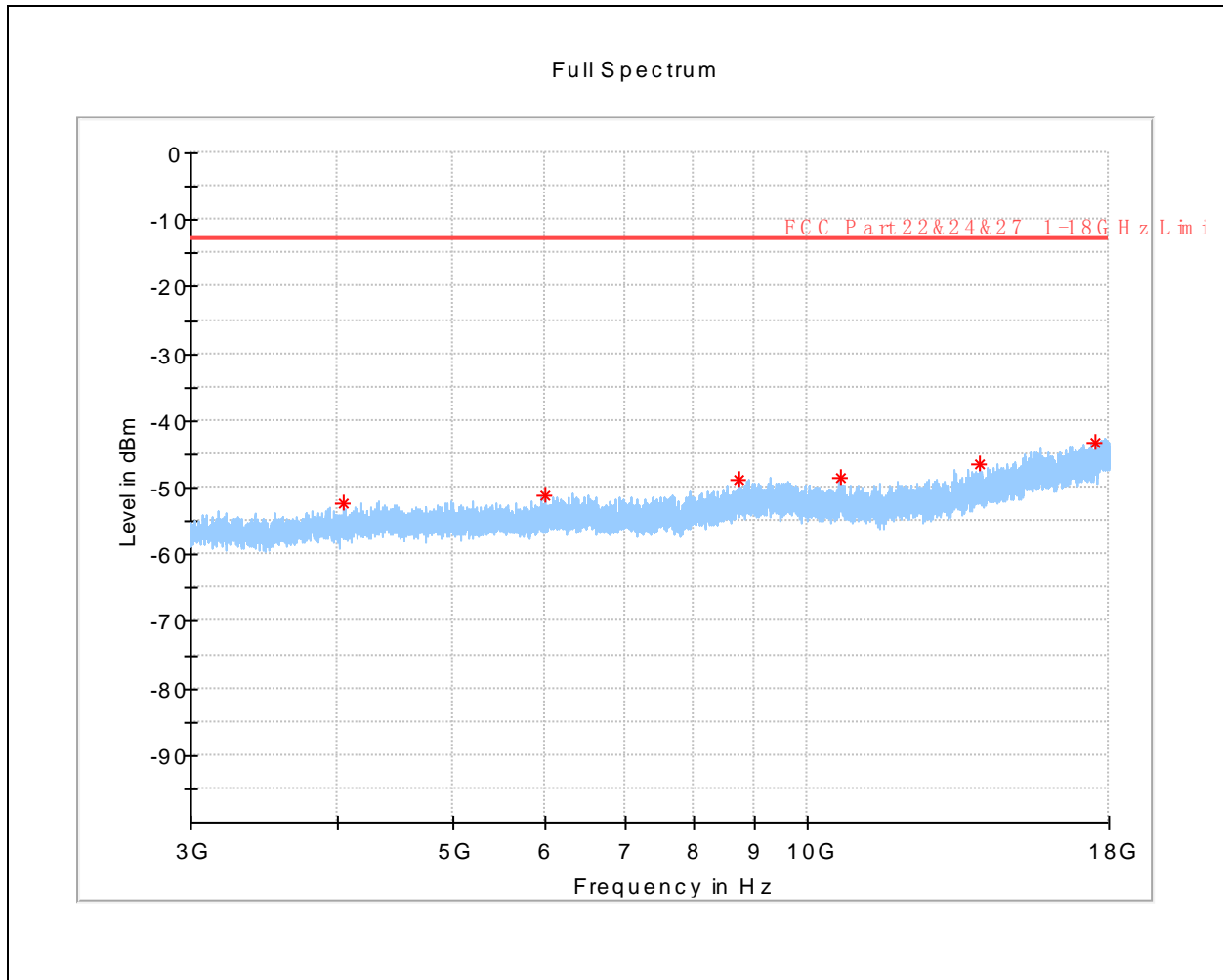


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3555.937500	-54.57	-13.00	41.57	V	-101.8
5040.937500	-52.92	-13.00	39.92	V	-99.3
7299.375000	-51.75	-13.00	38.75	V	-96.8
8962.968750	-48.68	-13.00	35.68	V	-93.2
11101.406250	-48.98	-13.00	35.98	V	-93.6
16677.656250	-43.24	-13.00	30.24	V	-85.2



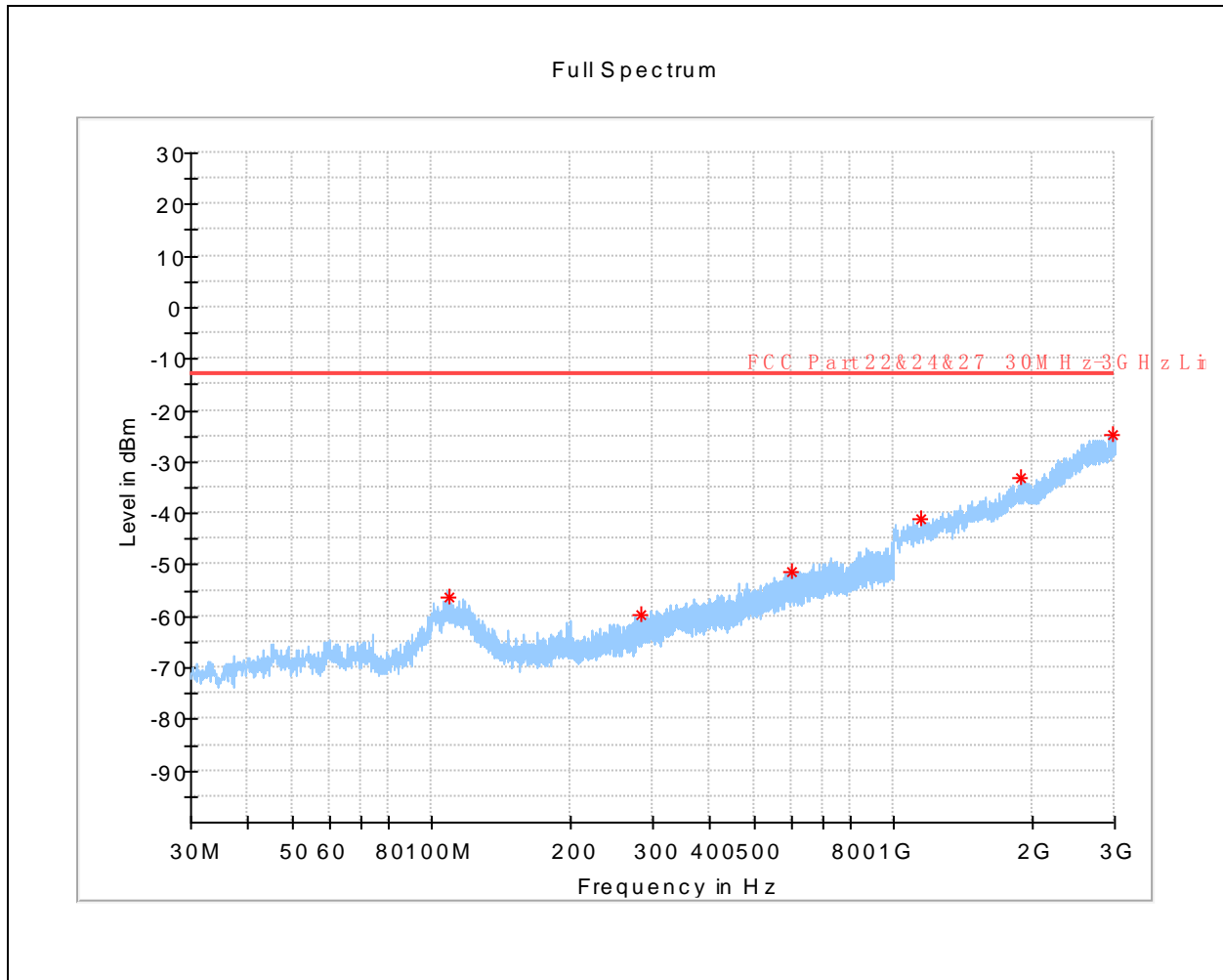
(LTE Band 2 _QPSK_ Middle Channel _ 30MHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
59.051500	-60.00	-13.00	47.00	H	-77.9
241.023500	-58.08	-13.00	45.08	H	-77.7
624.610000	-48.02	-13.00	35.02	H	-70.7
1093.000000	-40.81	-13.00	27.81	H	-65.6
1881.000000	-31.96	-13.00	18.96	H	-58.4
2967.500000	-24.90	-13.00	11.90	H	-50.7



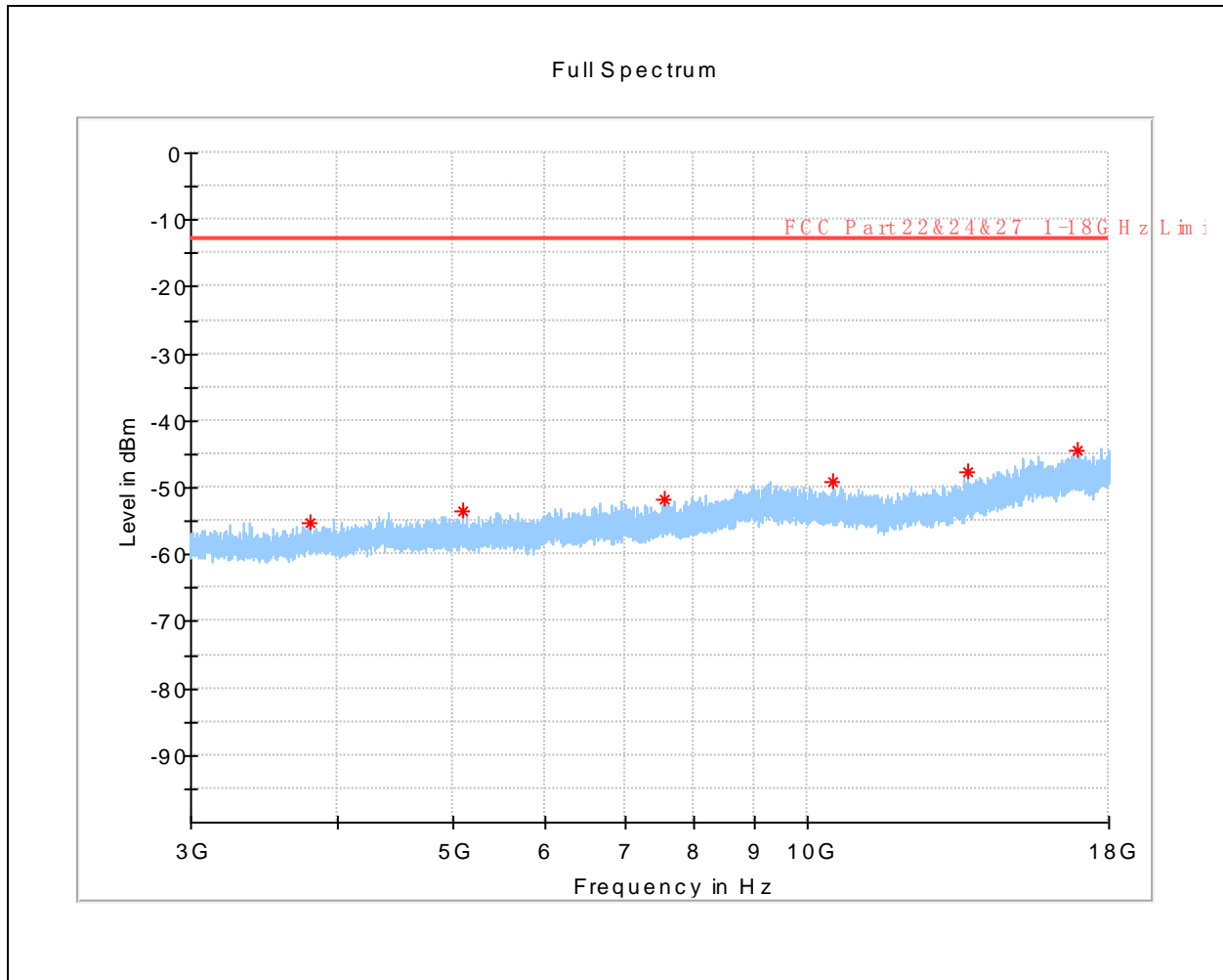
(LTE Band 2 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
4042.968750	-52.41	-13.00	39.41	H	-98.9
5995.312500	-51.14	-13.00	38.14	H	-96.4
8753.906250	-48.91	-13.00	35.91	H	-93.3
10657.031250	-48.63	-13.00	35.63	H	-92.6
13982.343750	-46.63	-13.00	33.63	H	-88.1
17494.687500	-43.29	-13.00	30.29	H	-82.1



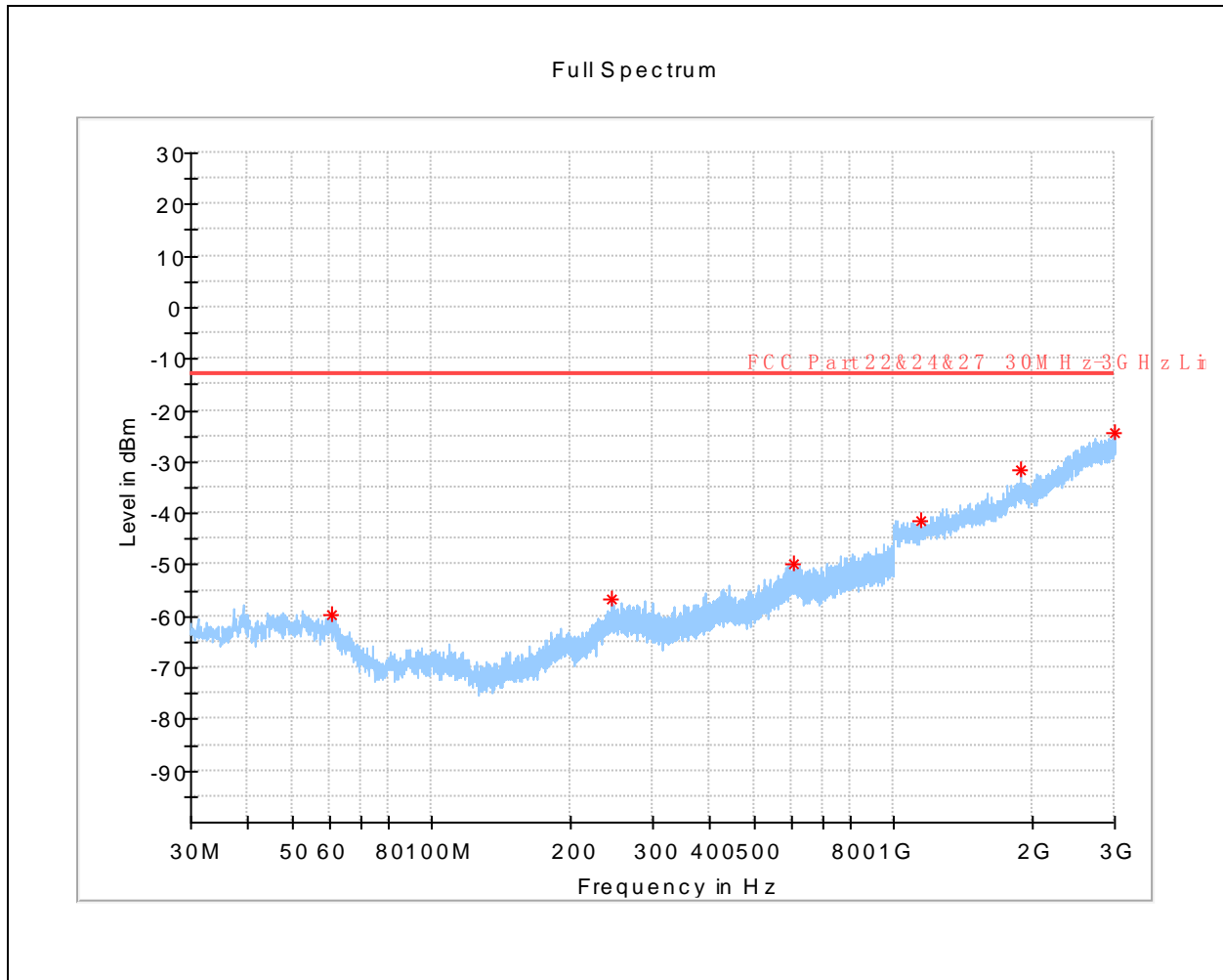
(LTE Band 2 _ QPSK_Middle Channel _ 30MHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
108.958000	-56.46	-13.00	43.46	V	-75.0
283.897500	-59.54	-13.00	46.54	V	-78.9
601.378500	-51.38	-13.00	38.38	V	-71.4
1141.500000	-40.93	-13.00	27.93	V	-65.2
1881.000000	-33.10	-13.00	20.10	V	-58.5
2967.000000	-24.74	-13.00	11.74	V	-50.5

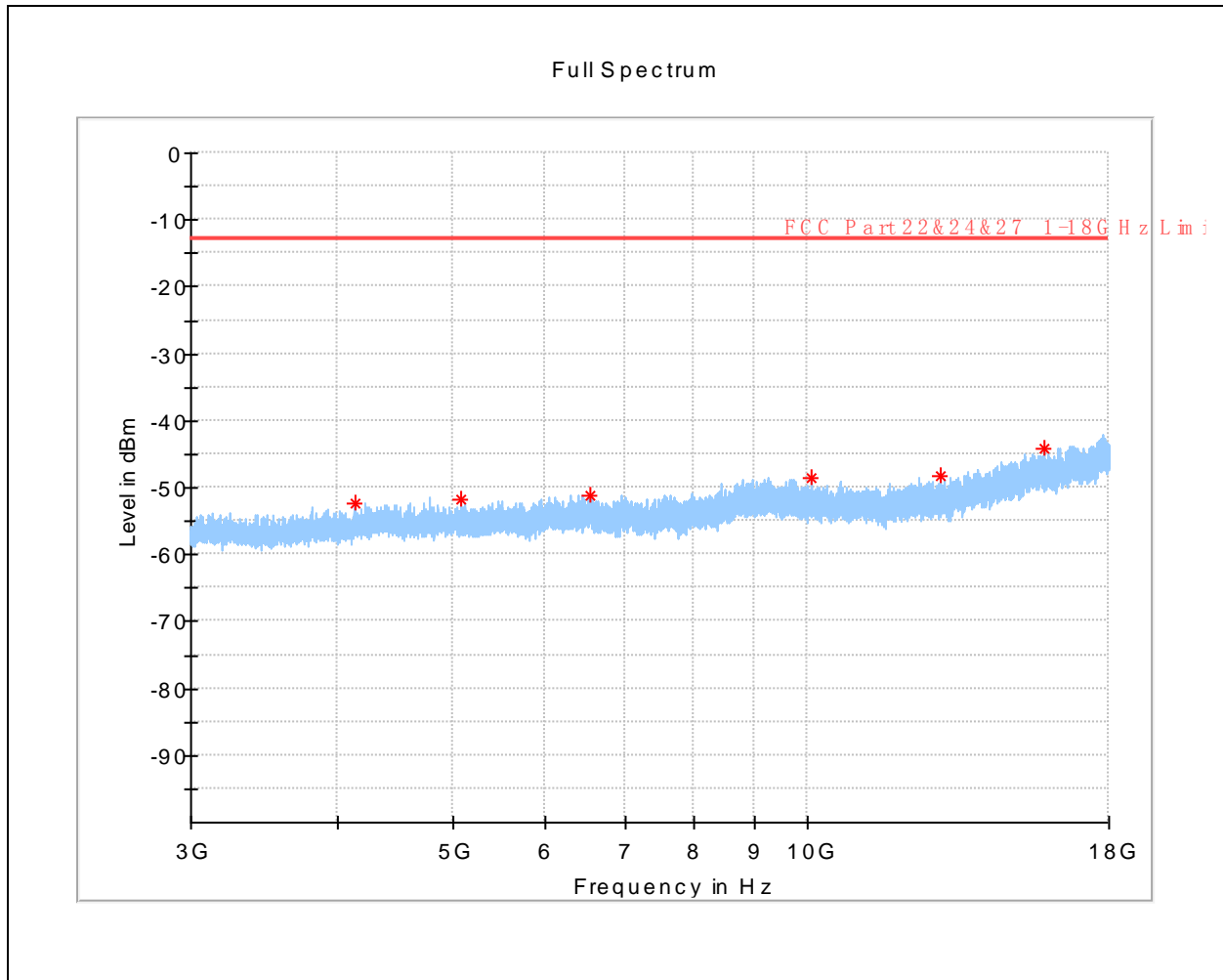


(LTE Band 2 _ QPSK_Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3782.343750	-55.37	-13.00	42.37	V	-101.0
5110.781250	-53.57	-13.00	40.57	V	-99.3
7568.437500	-51.71	-13.00	38.71	V	-96.4
10498.593750	-49.16	-13.00	36.16	V	-93.6
13655.625000	-47.80	-13.00	34.80	V	-89.7
16910.156250	-44.32	-13.00	31.32	V	-85.0

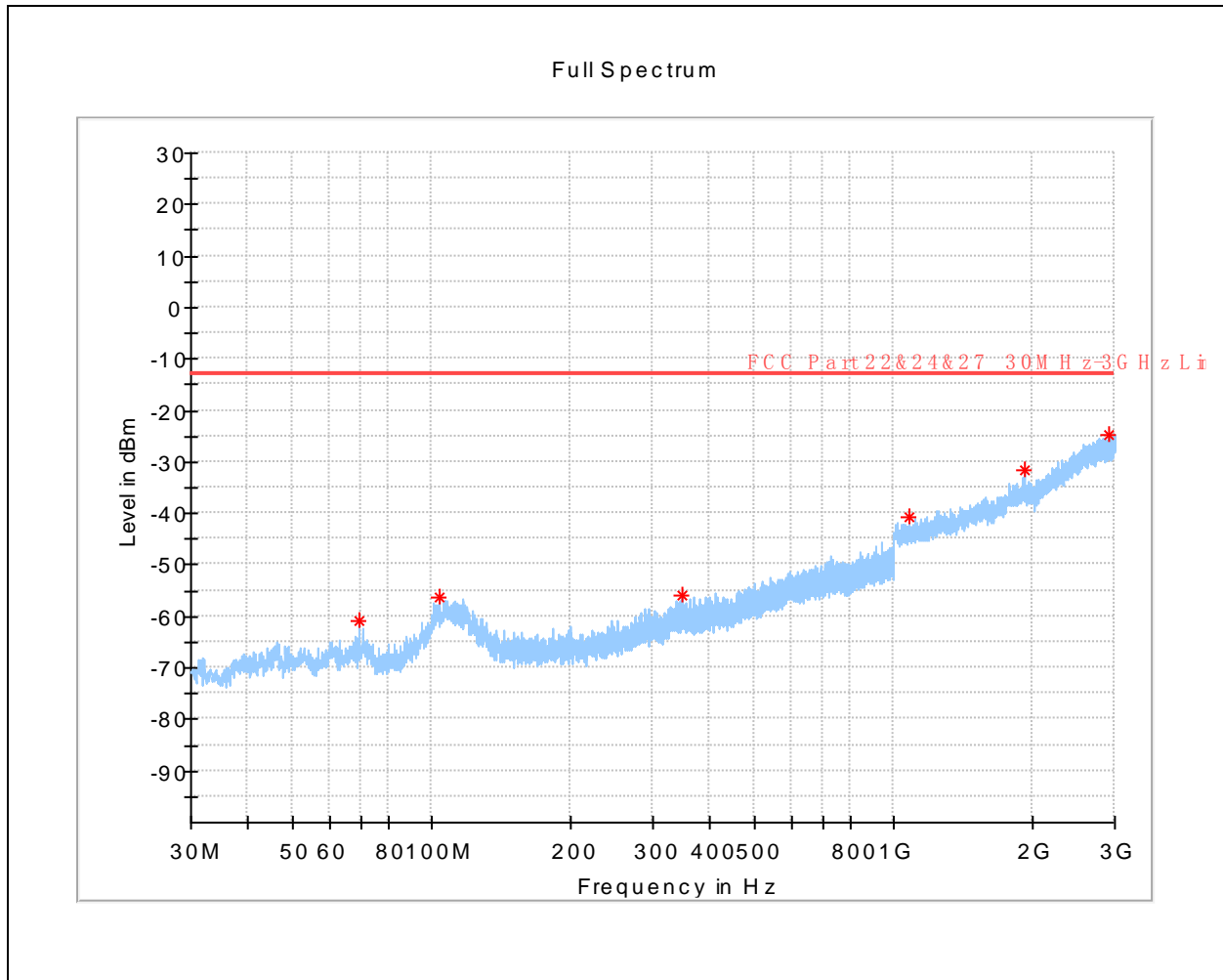


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
60.409500	-59.69	-13.00	46.69	H	-77.5
243.448500	-56.57	-13.00	43.57	H	-77.3
604.191500	-49.66	-13.00	36.66	H	-70.4
1145.000000	-41.30	-13.00	28.30	H	-65.3
1880.500000	-31.68	-13.00	18.68	H	-58.4
2994.500000	-24.53	-13.00	11.53	H	-50.3



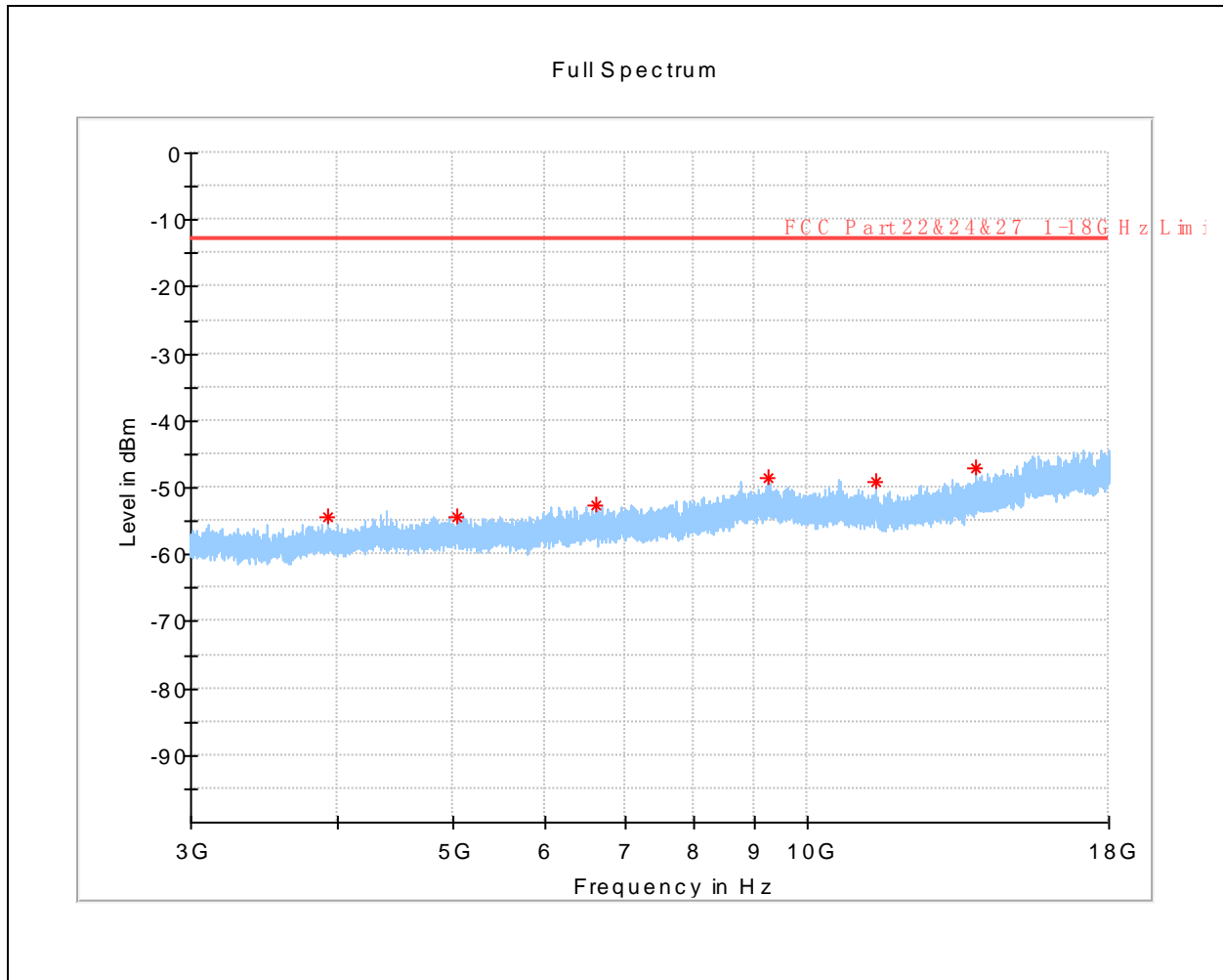
(LTE Band 2 _QPSK_ High Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
4127.343750	-52.22	-13.00	39.22	H	-98.5
5077.031250	-51.62	-13.00	38.62	H	-97.2
6544.687500	-51.23	-13.00	38.23	H	-95.3
10090.312500	-48.48	-13.00	35.48	H	-92.7
12974.062500	-48.39	-13.00	35.39	H	-90.3
15893.437500	-44.13	-13.00	31.13	H	-85.2



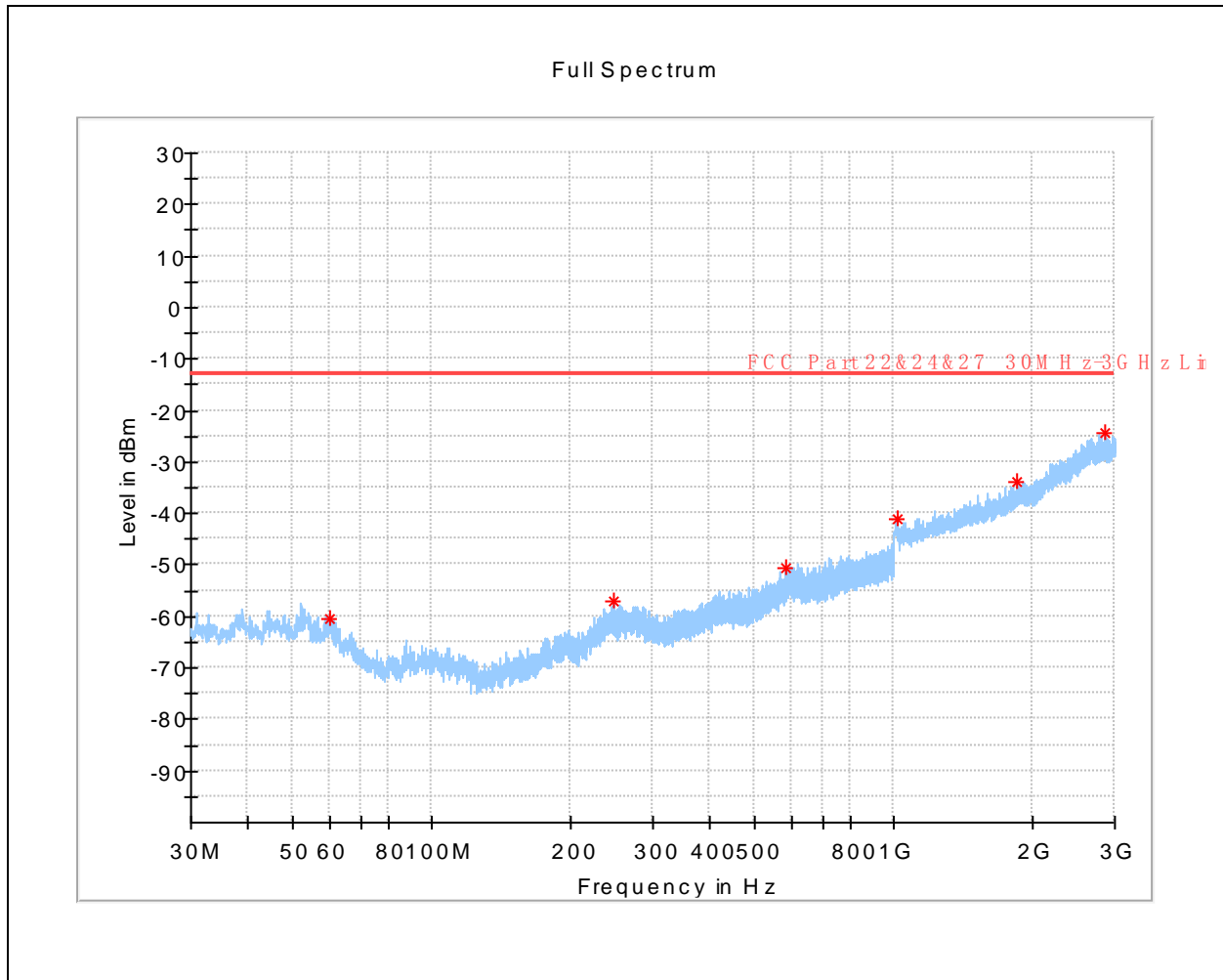
(LTE Band 2 _ QPSK_High Channel _ 30MHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
69.576000	-60.84	-13.00	47.84	V	-83.9
103.865500	-56.37	-13.00	43.37	V	-76.2
345.783500	-55.84	-13.00	42.84	V	-76.4
1079.500000	-40.61	-13.00	27.61	V	-66.0
1909.500000	-31.46	-13.00	18.46	V	-58.2
2926.500000	-24.57	-13.00	11.57	V	-50.9



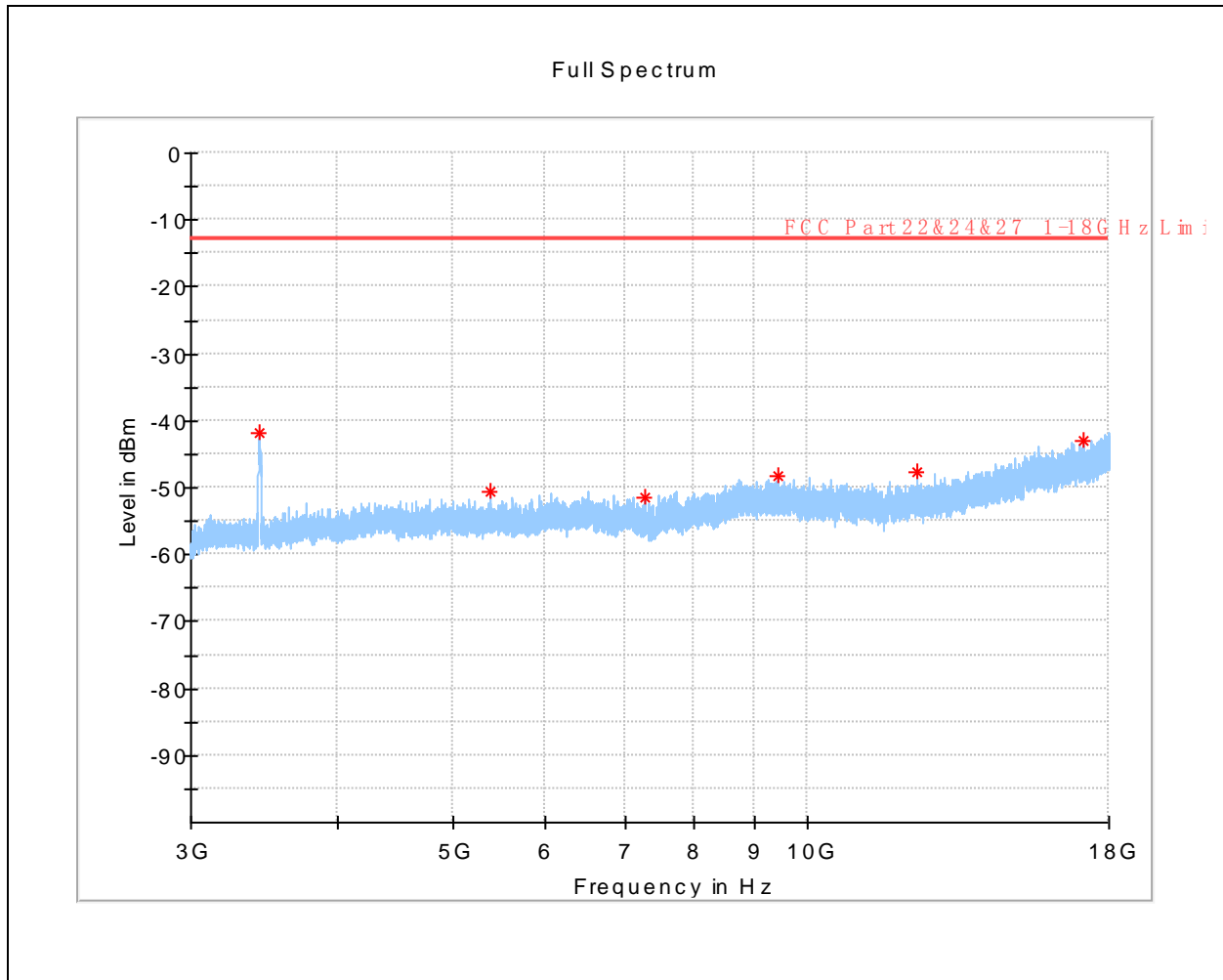
(LTE Band 2 _ QPSK_High Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3919.218750	-54.26	-13.00	41.27	V	-101.0
5039.062500	-54.25	-13.00	41.25	V	-99.3
6618.281250	-52.64	-13.00	39.64	V	-97.2
9264.375000	-48.63	-13.00	35.63	V	-92.9
11434.218750	-49.18	-13.00	36.18	V	-93.4
13880.625000	-47.09	-13.00	34.09	V	-89.4



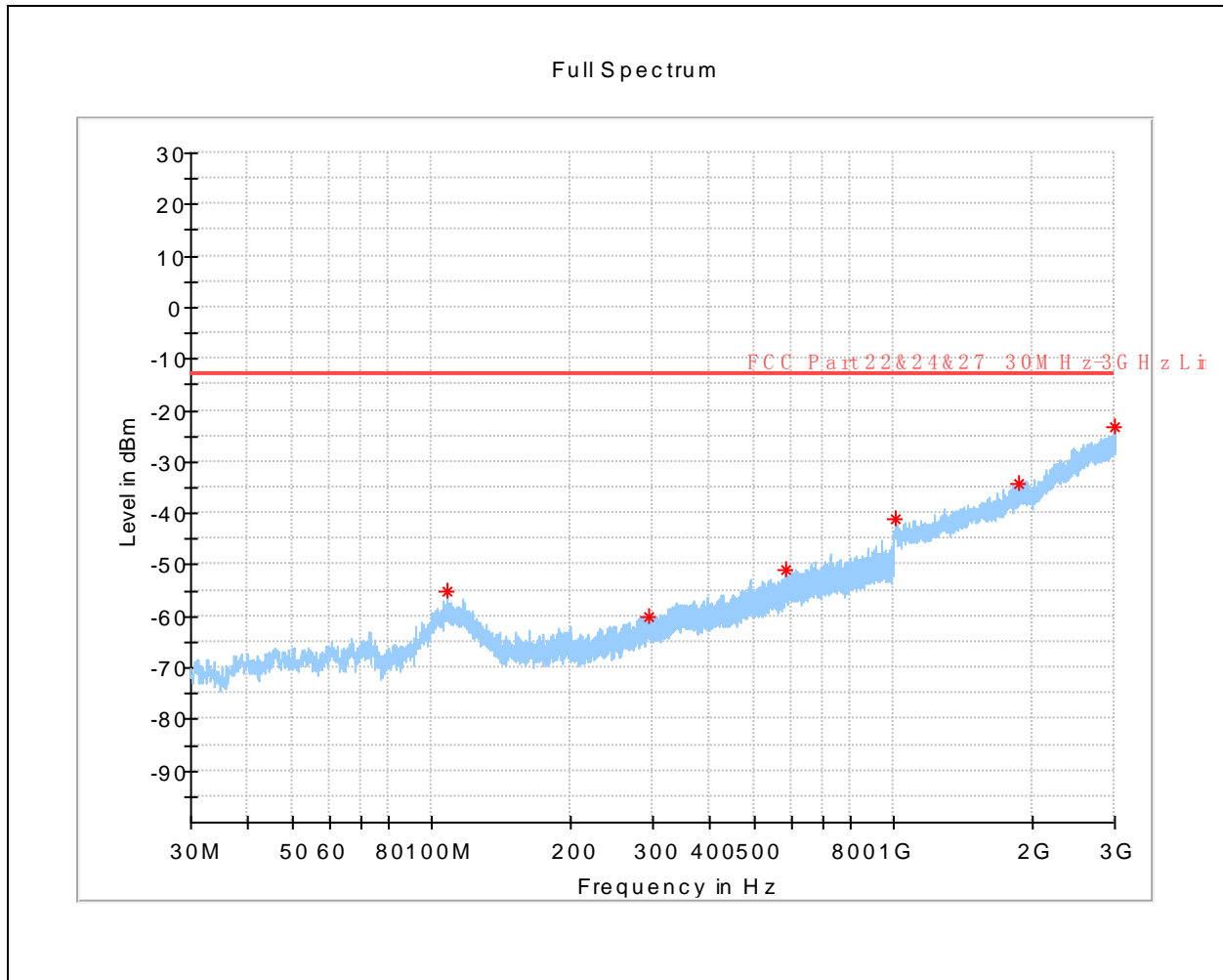
(LTE Band 4 _QPSK_ Low Channel _ 30MHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
60.215500	-60.36	-13.00	47.36	H	-77.4
247.619500	-57.06	-13.00	44.06	H	-77.1
580.523500	-50.50	-13.00	37.50	H	-71.7
1020.000000	-41.00	-13.00	28.00	H	-66.9
1849.500000	-33.88	-13.00	20.88	H	-59.3
2851.000000	-24.48	-13.00	11.48	H	-51.2

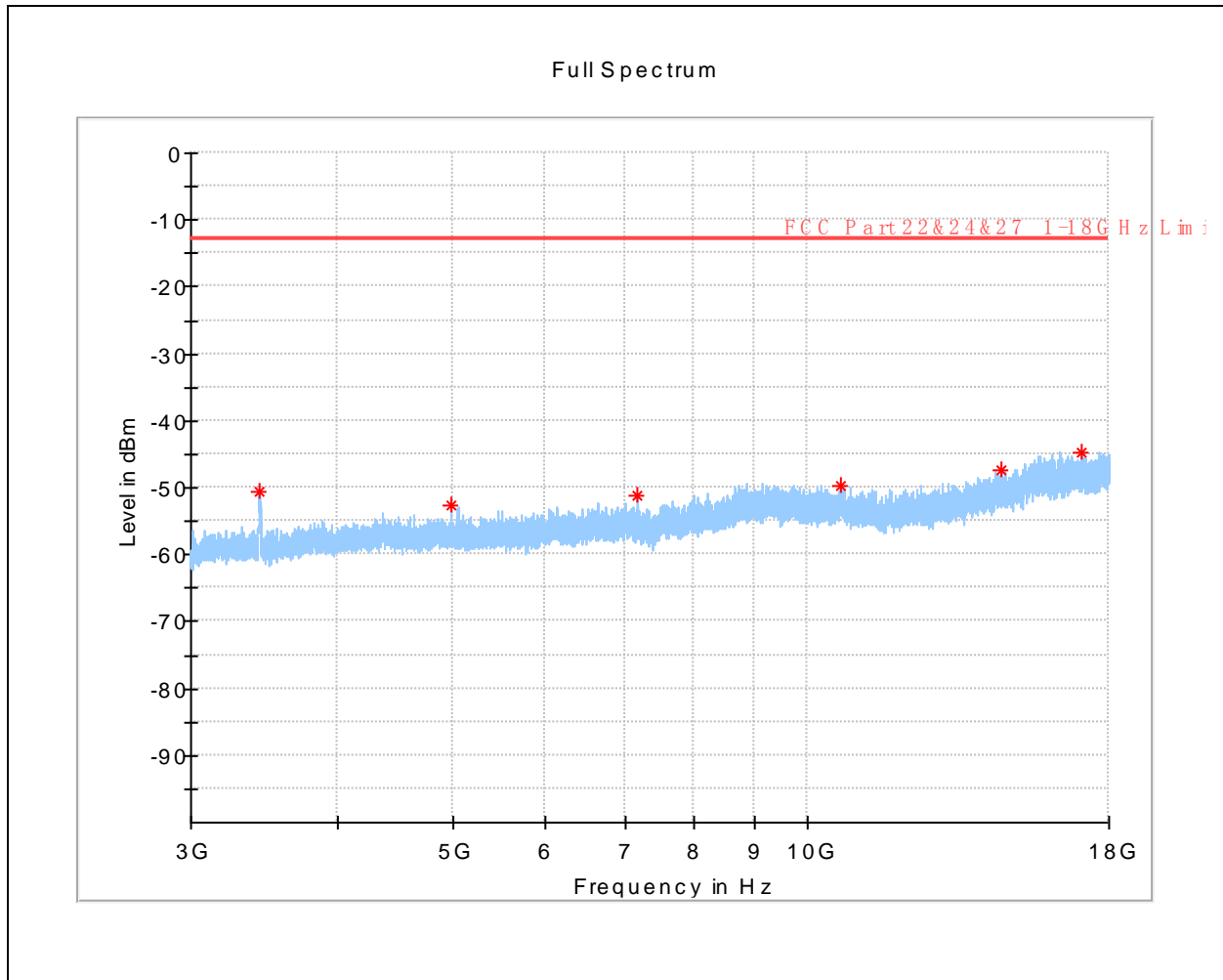


(LTE Band 4 _QPSK_ Low Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3430.312500	-41.80	-13.00	28.80	H	-100.1
5381.718750	-50.52	-13.00	37.52	H	-96.6
7265.625000	-51.44	-13.00	38.44	H	-95.7
9440.156250	-48.33	-13.00	35.33	H	-92.6
12399.843750	-47.61	-13.00	34.61	H	-91.0
17101.406250	-42.92	-13.00	29.92	H	-83.6

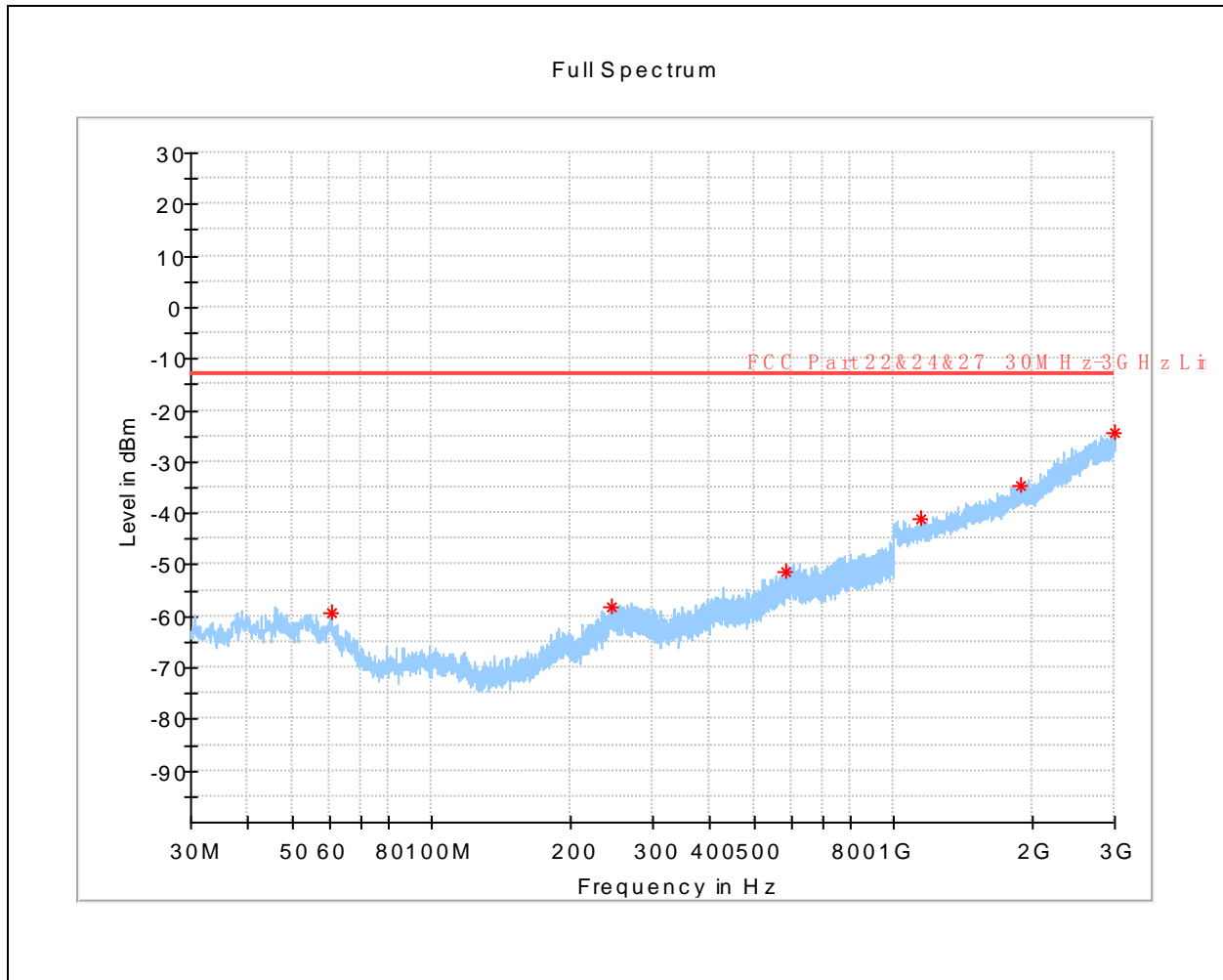


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
107.309000	-55.25	-13.00	42.25	V	-74.7
294.422000	-59.96	-13.00	46.96	V	-78.8
584.597500	-50.95	-13.00	37.95	V	-71.7
1007.500000	-41.24	-13.00	28.24	V	-66.9
1851.500000	-34.12	-13.00	21.12	V	-59.3
2993.000000	-23.19	-13.00	10.19	V	-50.3



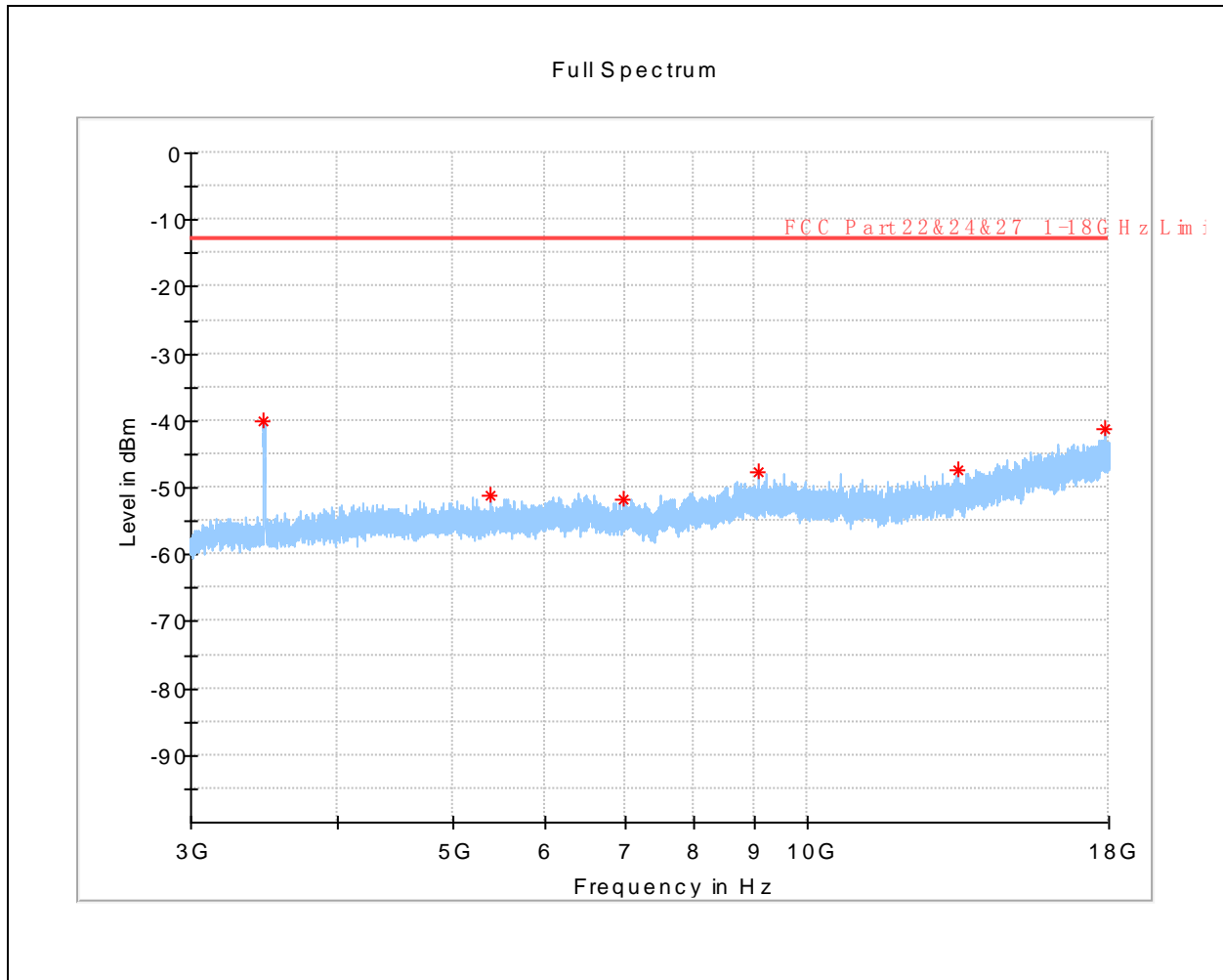
(LTE Band 4_ QPSK _ Low Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3425.625000	-50.73	-13.00	37.73	V	-102.2
4988.906250	-52.61	-13.00	39.61	V	-99.3
7181.250000	-51.23	-13.00	38.23	V	-96.5
10662.187500	-49.70	-13.00	36.70	V	-93.3
14569.687500	-47.44	-13.00	34.44	V	-88.1
17055.468750	-44.62	-13.00	31.62	V	-85.2



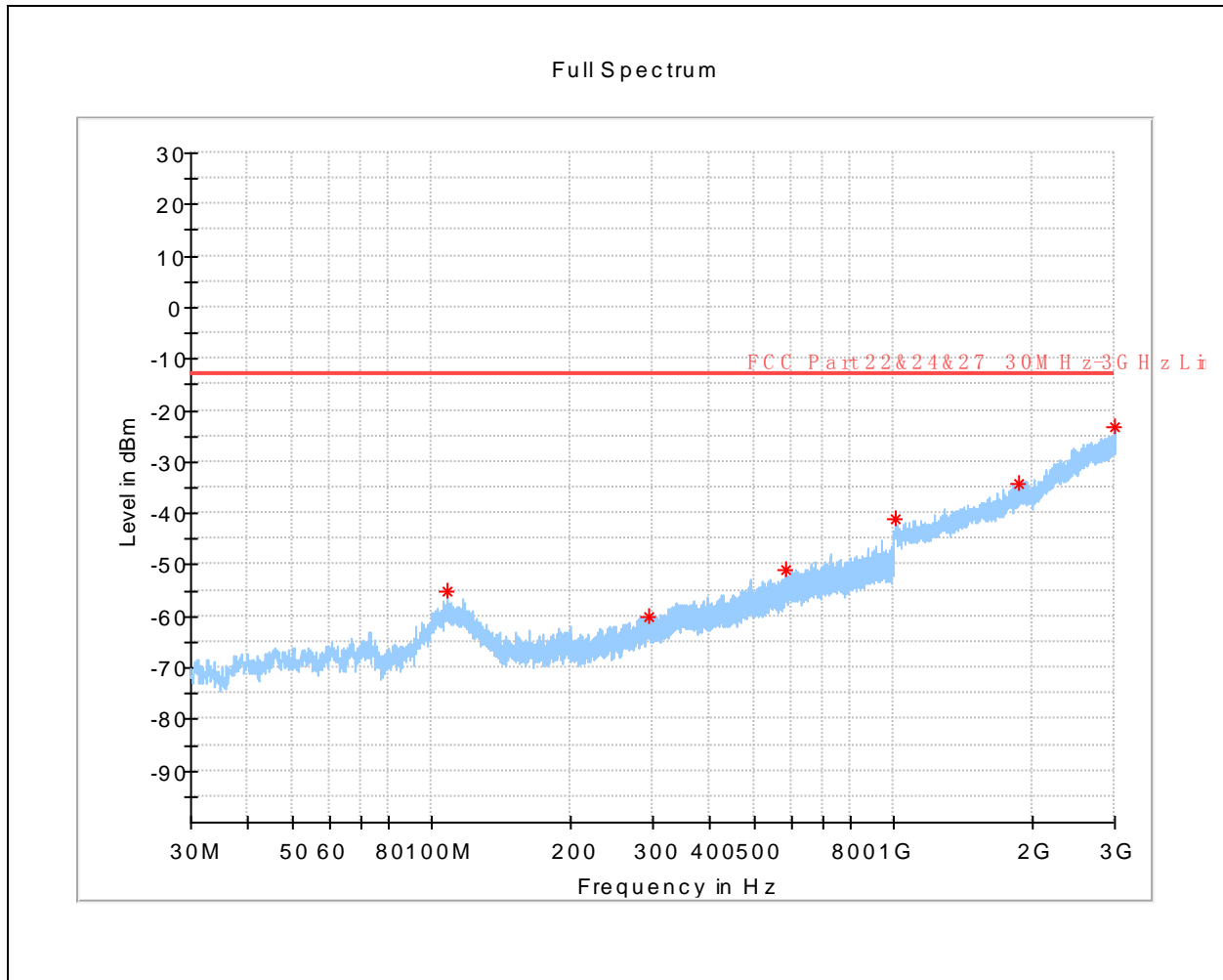
(LTE Band 4 _QPSK_ Middle Channel _ 30MHz to 3GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
60.749000	-59.51	-13.00	46.52	V	-77.7
243.642500	-58.09	-13.00	45.09	V	-77.3
582.075500	-51.40	-13.00	38.40	V	-71.5
1138.000000	-41.17	-13.00	28.17	V	-65.2
1878.000000	-34.54	-13.00	21.54	V	-58.9
2988.000000	-24.45	-13.00	11.45	V	-50.3



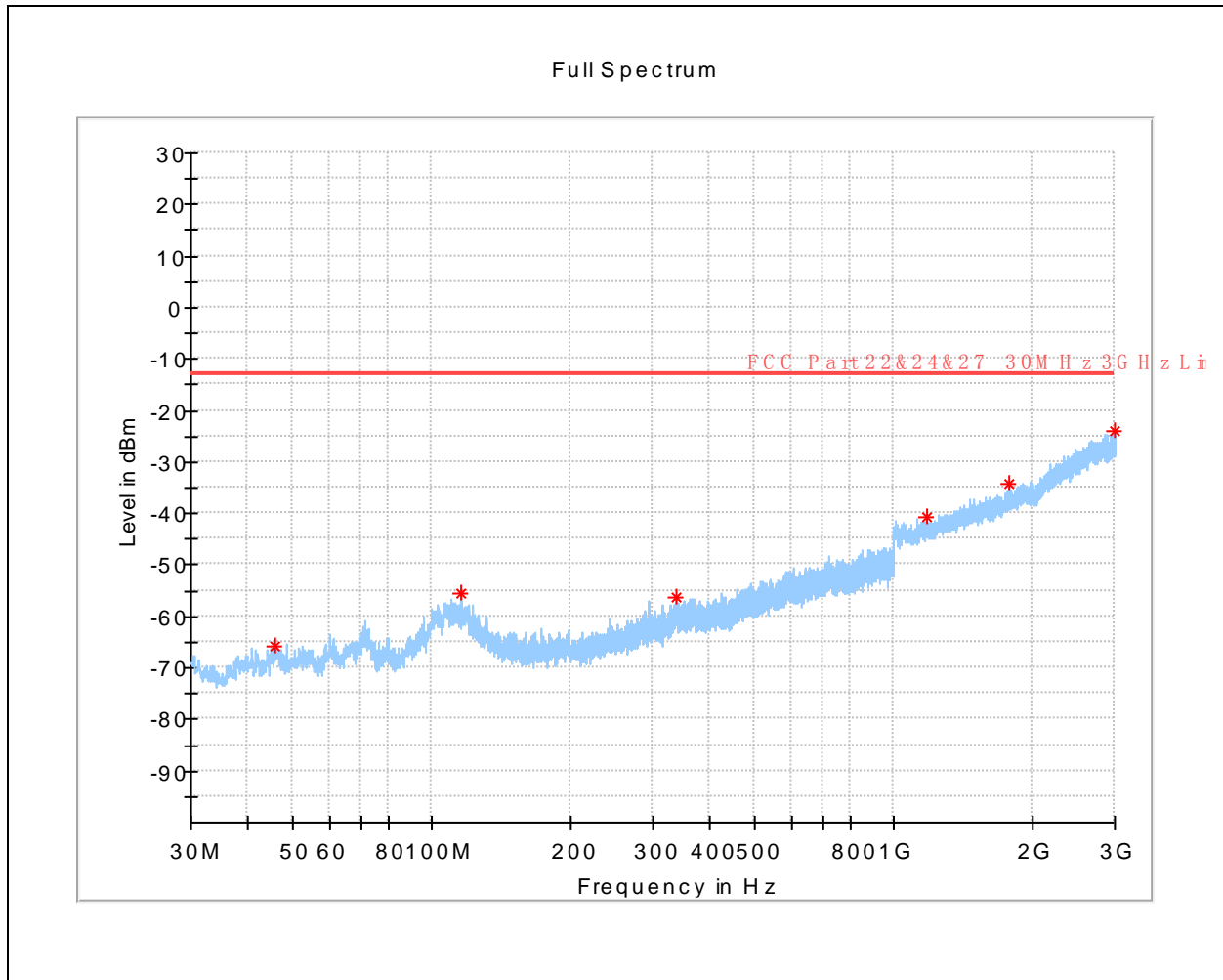
(LTE Band 4 _QPSK_ Middle Channel _ 3GHz to 18GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3460.781250	-40.06	-13.00	27.06	H	-100.1
5376.562500	-51.27	-13.00	38.27	H	-96.6
6972.656250	-51.66	-13.00	38.66	H	-95.7
9073.593750	-47.62	-13.00	34.62	H	-93.1
13400.625000	-47.48	-13.00	34.48	H	-89.5
17867.343750	-41.30	-13.00	28.30	H	-81.2



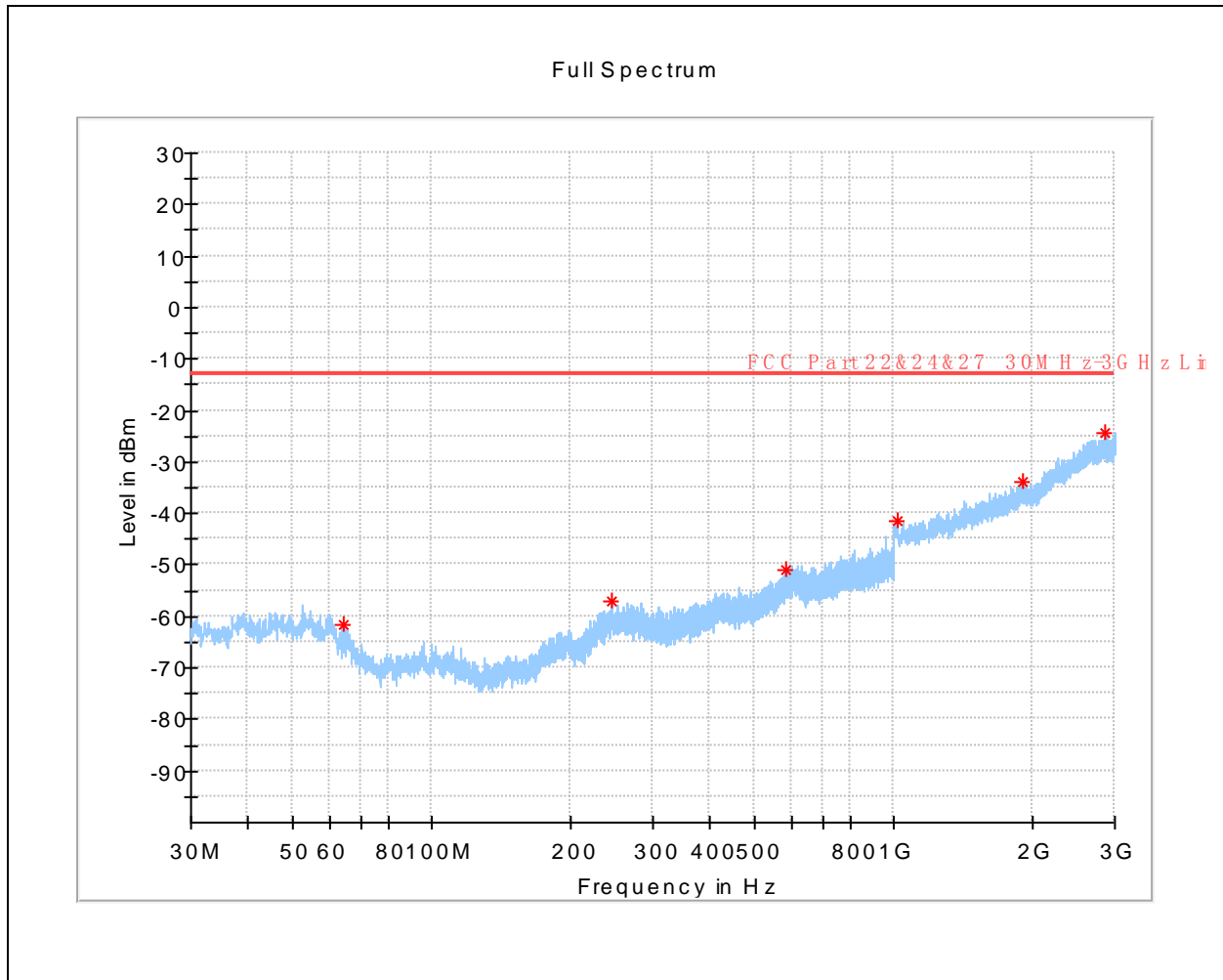
(LTE Band 4 _ QPSK_ Middle Channel _ 30MHz to 3GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
107.309000	-55.25	-13.00	42.25	V	-74.7
294.422000	-59.96	-13.00	46.96	V	-78.8
584.597500	-50.95	-13.00	37.95	V	-71.7
1007.500000	-41.24	-13.00	28.24	V	-66.9
1851.500000	-34.12	-13.00	21.12	V	-59.3
2993.000000	-23.19	-13.00	10.19	V	-50.3



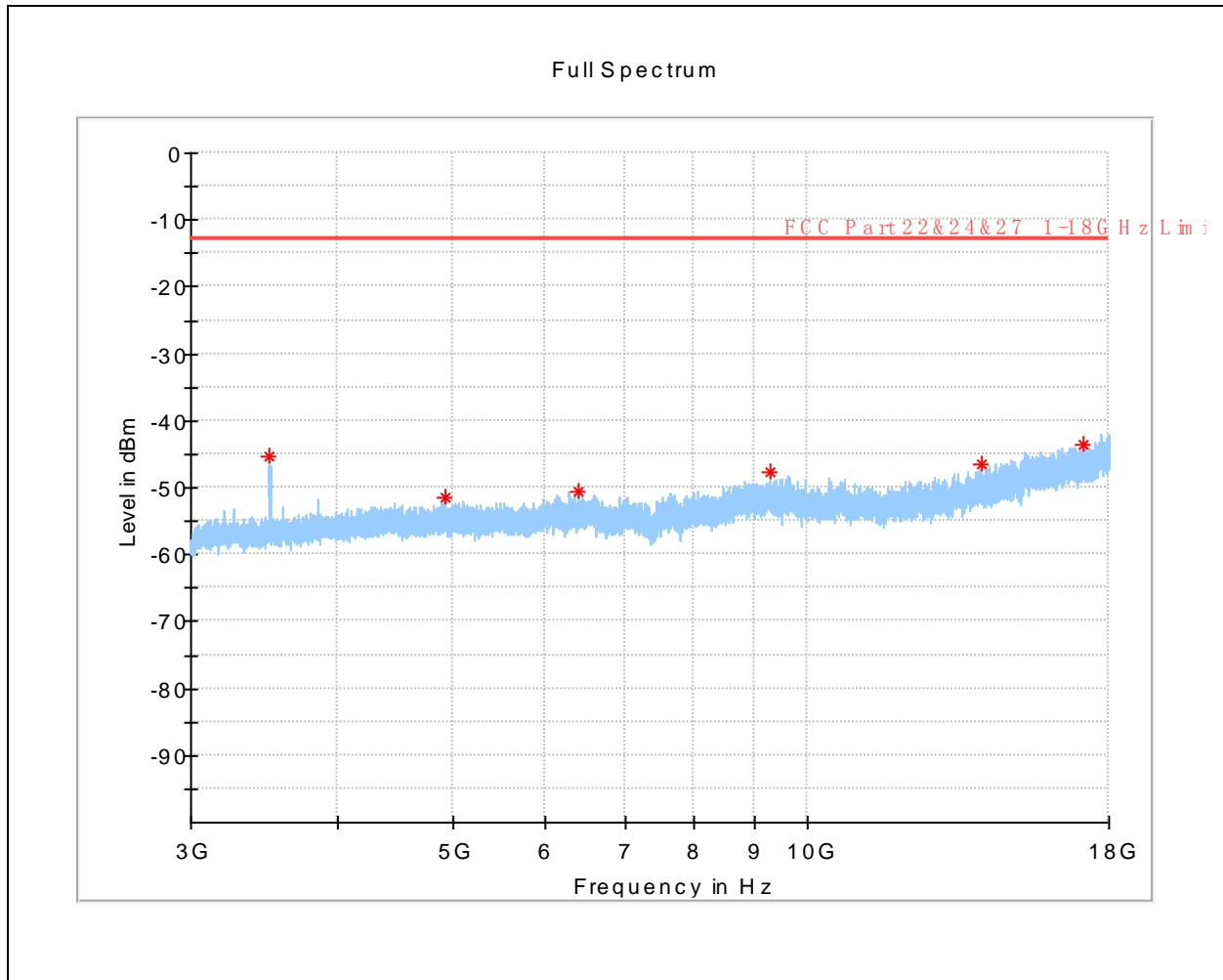
(LTE Band 4 _ QPSK_ Middle Channel _ 3GHz to 18GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
45.617000	-65.64	-13.00	52.64	V	-82.2
115.796500	-55.45	-13.00	42.45	V	-75.5
335.695500	-56.45	-13.00	43.45	V	-76.4
1174.500000	-40.86	-13.00	27.86	V	-65.3
1770.500000	-34.25	-13.00	21.25	V	-60.0
2996.500000	-24.04	-13.00	11.04	V	-50.3

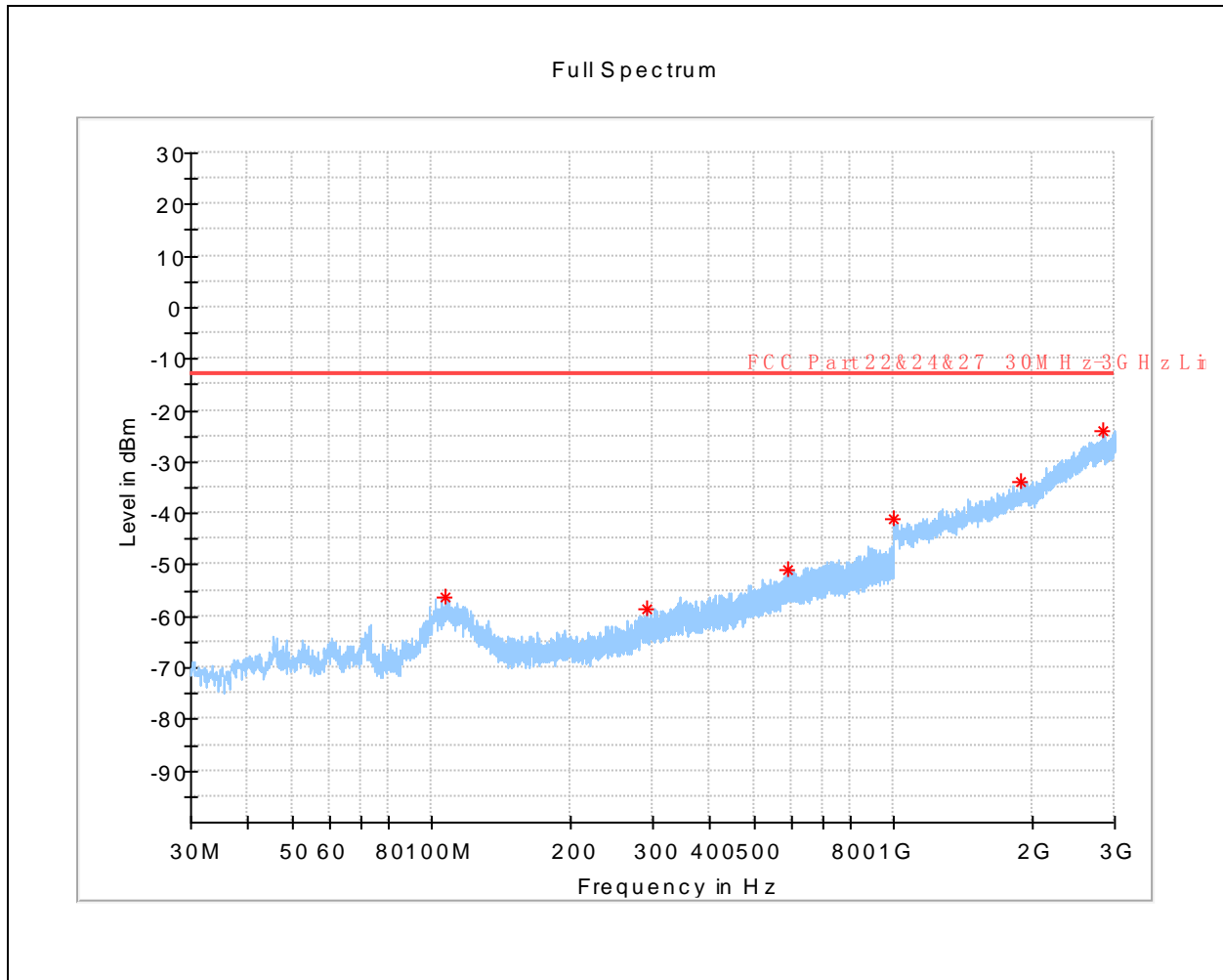


(LTE Band 4 _QPSK_ High Channel _ 30MHz to 3GHz _ Horizontal)

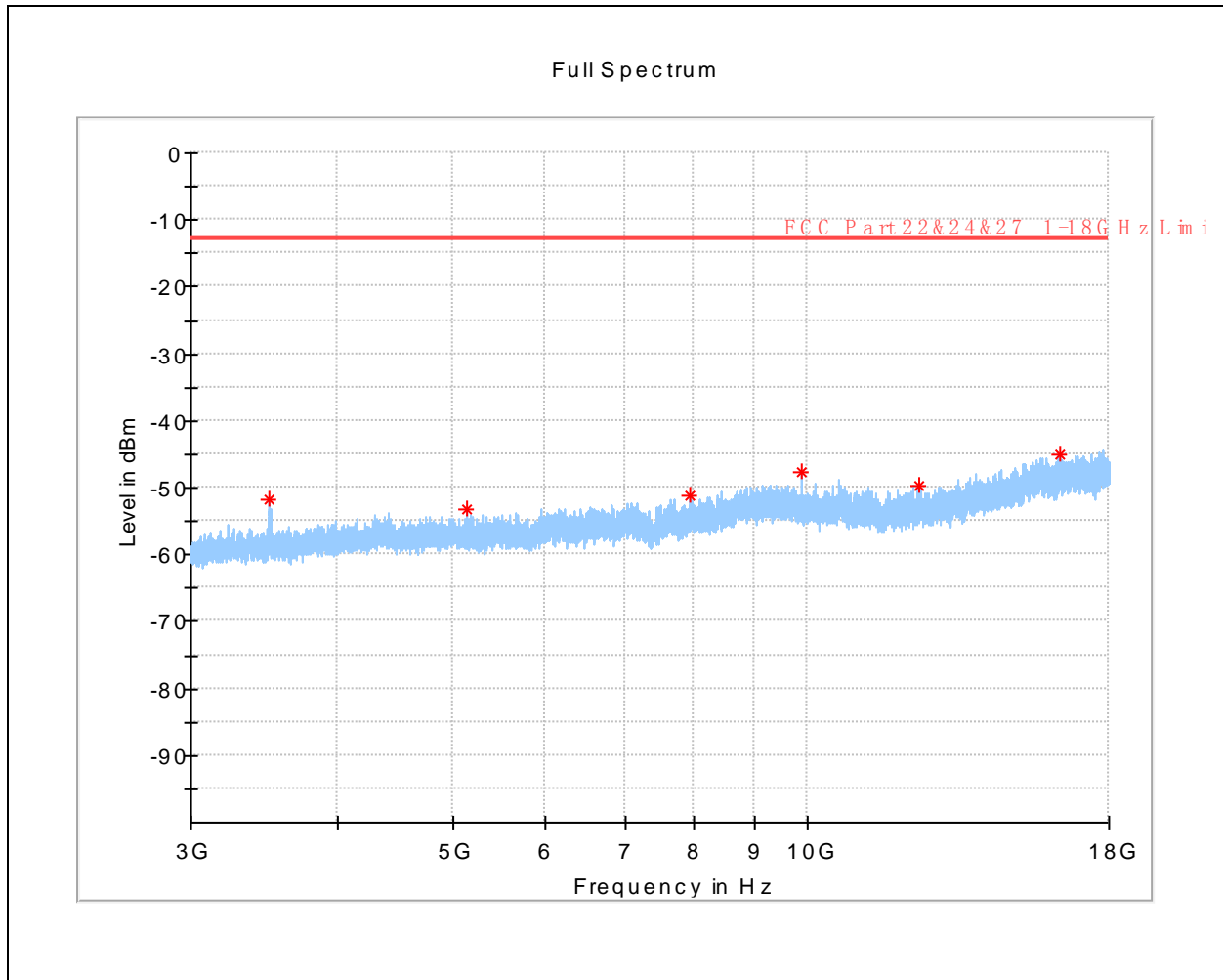
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
64.483500	-61.75	-13.00	48.75	V	-81.1
244.321500	-56.97	-13.00	43.97	V	-77.3
579.796000	-50.82	-13.00	37.82	V	-71.8
1012.000000	-41.28	-13.00	28.28	V	-66.7
1888.500000	-34.04	-13.00	21.04	V	-58.6
2855.000000	-24.23	-13.00	11.23	V	-51.2



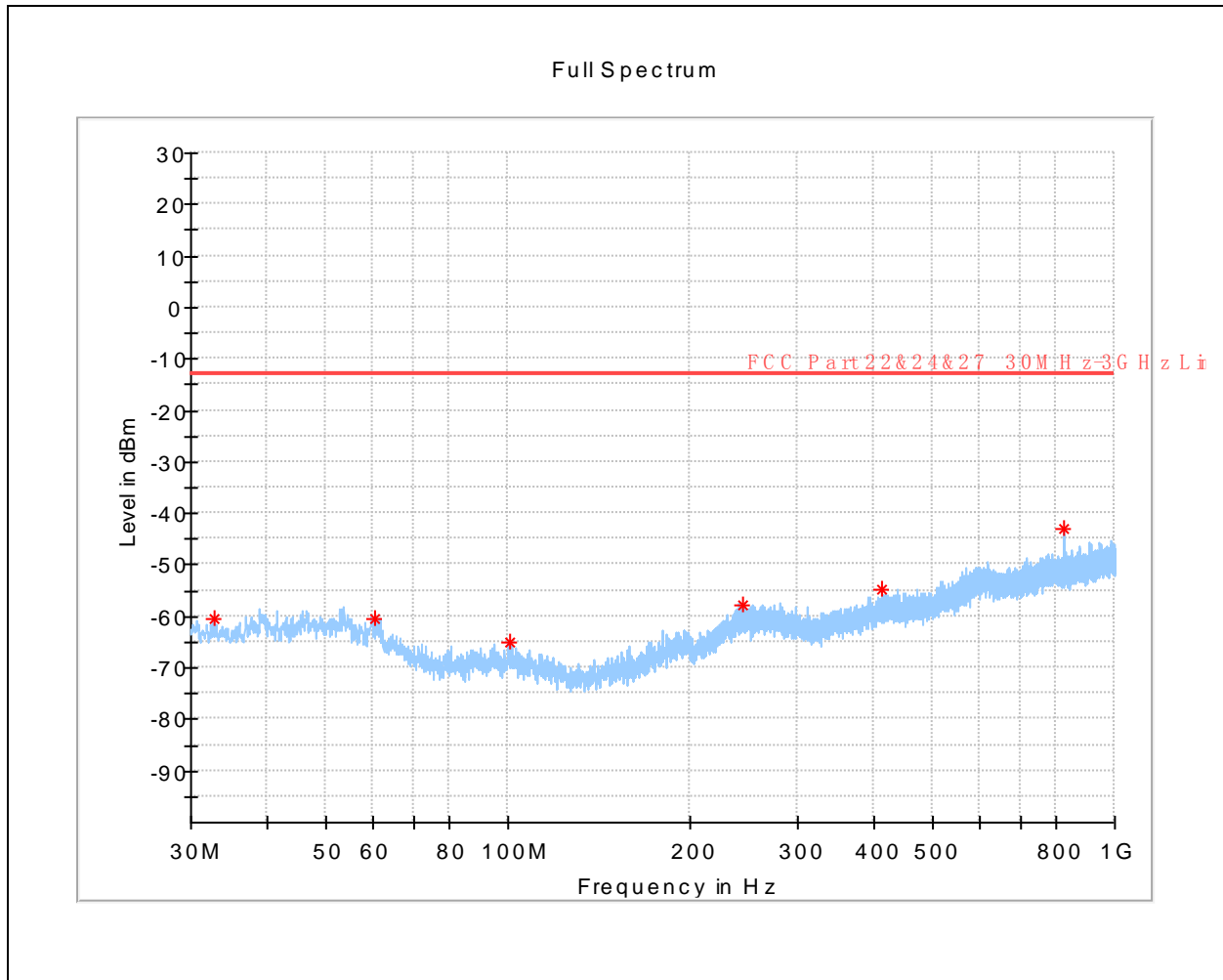
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3495.468750	-45.44	-13.00	32.44	H	-100.5
4924.687500	-51.44	-13.00	38.44	H	-97.4
6400.781250	-50.53	-13.00	37.53	H	-95.8
9281.718750	-47.57	-13.00	34.57	H	-92.4
14018.437500	-46.44	-13.00	33.44	H	-88.0
17112.187500	-43.51	-13.00	30.51	H	-83.5



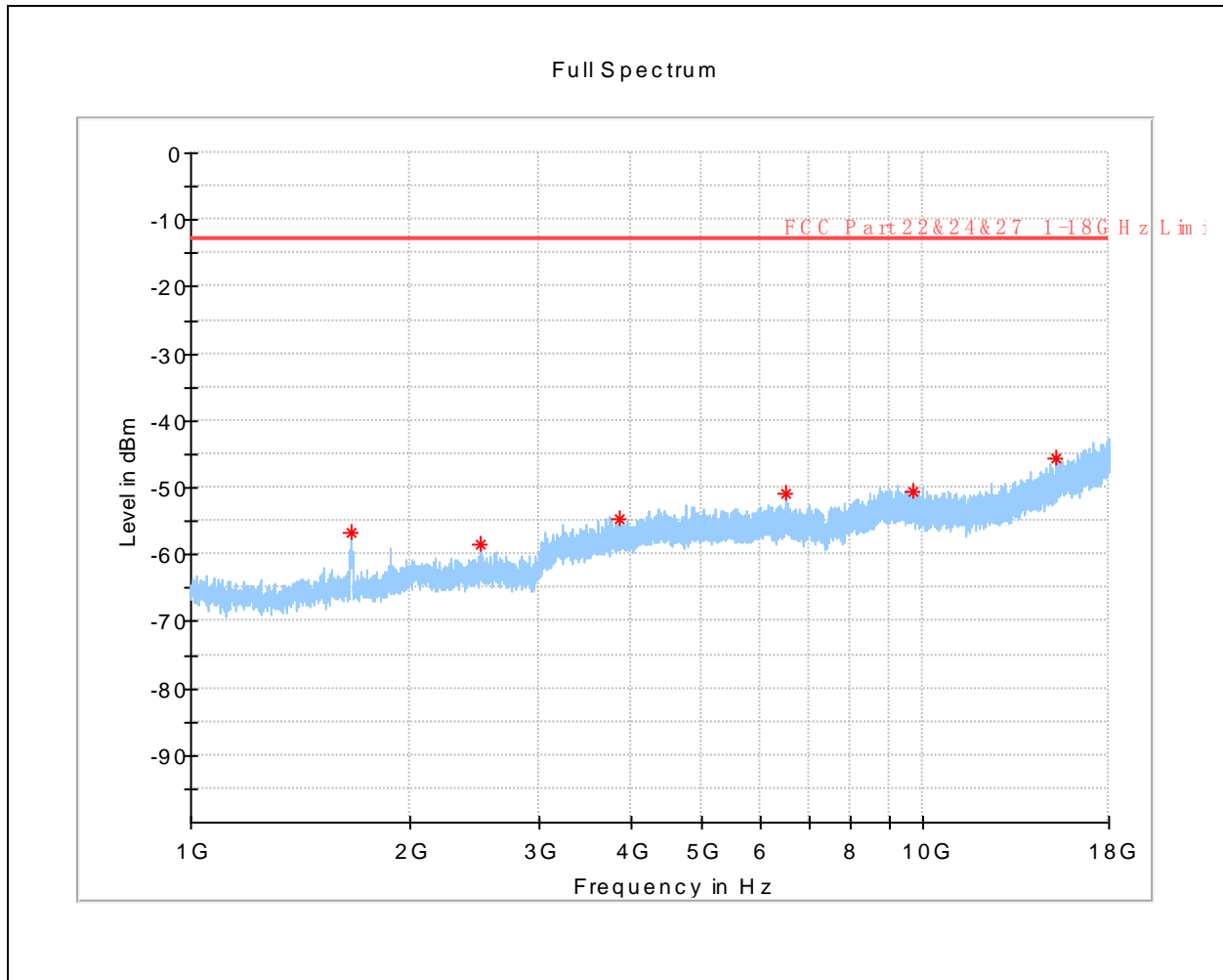
Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
107.066500	-56.18	-13.00	43.18	V	-74.7
290.493500	-58.70	-13.00	45.70	V	-78.8
586.683000	-50.94	-13.00	37.94	V	-71.6
1000.000000	-40.96	-13.00	27.96	V	-66.4
1874.500000	-33.97	-13.00	20.97	V	-59.1
2830.500000	-23.95	-13.00	10.95	V	-51.4



Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
3499.687500	-51.80	-13.00	38.80	V	-102.6
5138.437500	-53.34	-13.00	40.34	V	-99.5
7956.093750	-51.27	-13.00	38.27	V	-95.3
9864.843750	-47.55	-13.00	34.55	V	-93.6
12416.718750	-49.73	-13.00	36.73	V	-92.1
16382.343750	-44.99	-13.00	31.99	V	-85.9

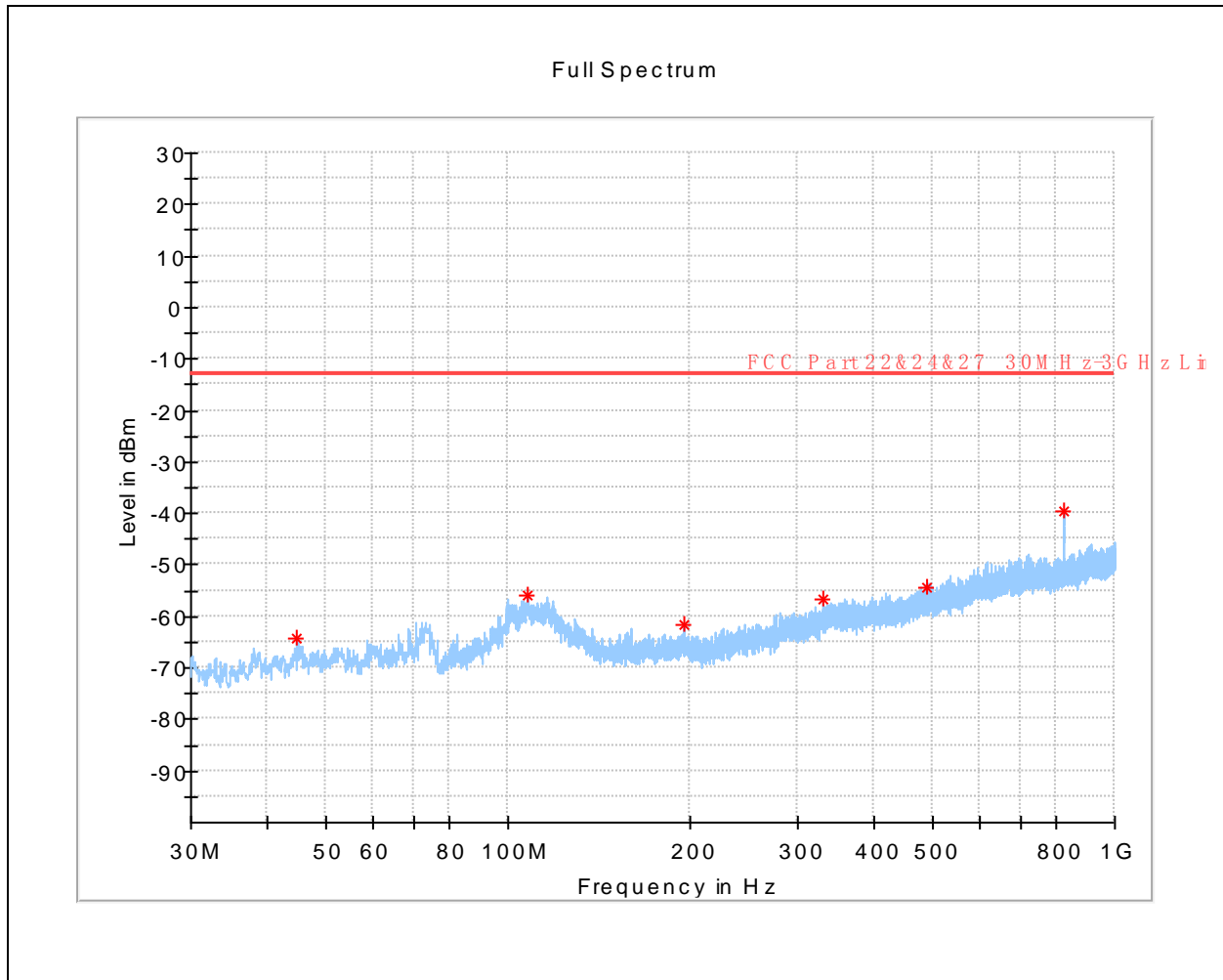


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
32.764500	-60.34	-13.00	47.34	H	-79.2
60.118500	-60.42	-13.00	47.42	H	-77.5
100.858500	-65.14	-13.00	52.14	H	-83.8
242.866500	-57.87	-13.00	44.87	H	-77.4
412.180000	-54.59	-13.00	41.59	H	-75.0
825.642500	-43.01	-13.00	30.01	H	-67.9



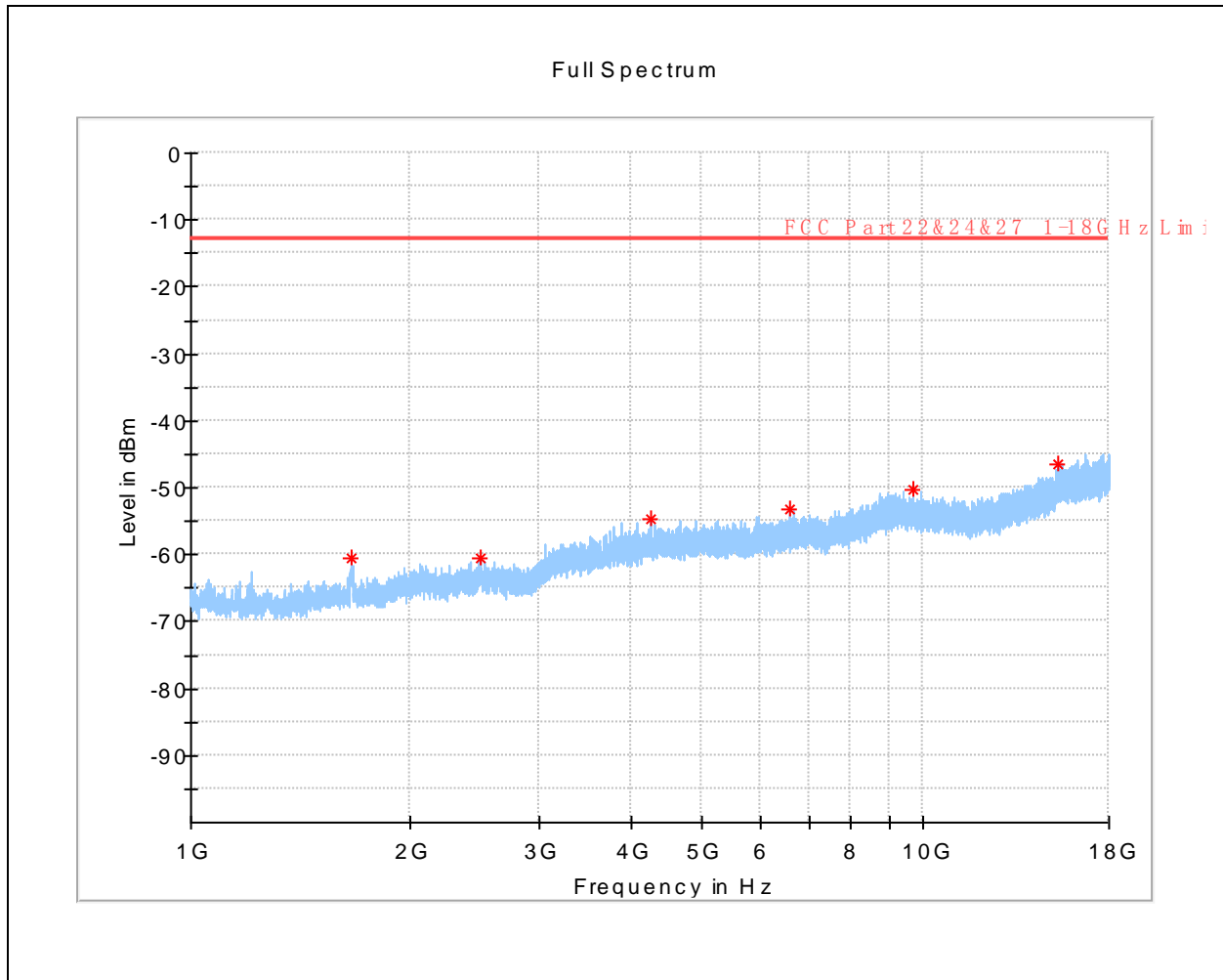
(LTE Band 5 _QPSK_ Low Channel _ 1GHz to 10GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
1653.968750	-56.65	-13.00	43.65	H	-110.2
2484.843750	-58.49	-13.00	45.49	H	-106.6
3852.281250	-54.65	-13.00	41.65	H	-100.4
6523.406250	-50.86	-13.00	37.86	H	-96.7
9743.312500	-50.60	-13.00	37.60	H	-93.8
15259.281250	-45.72	-13.00	32.72	H	-86.3

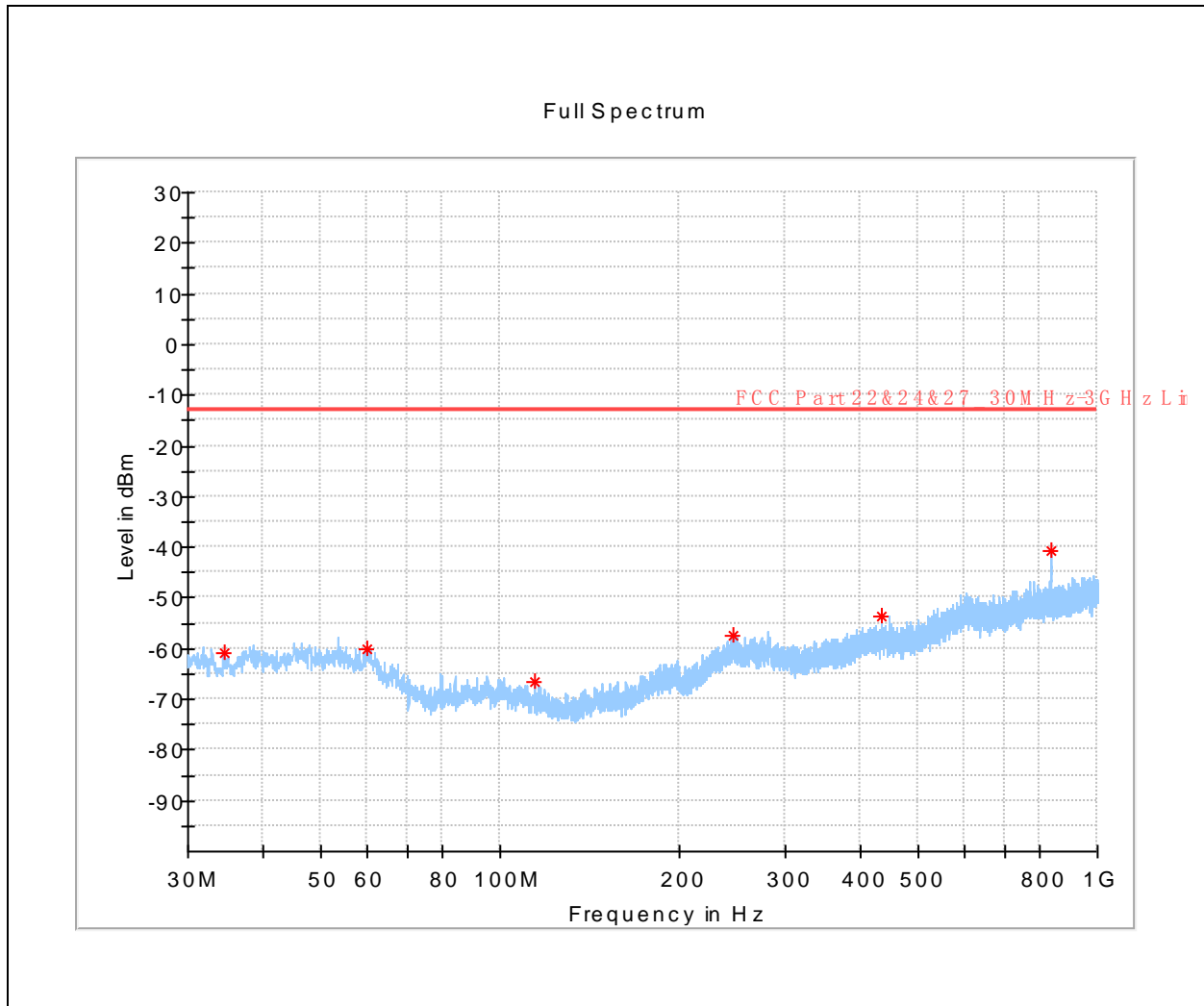


(LTE Band 5 _ QPSK_ Low Channel _ 30MHz to 1GHz _ Vertical)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
44.938000	-64.20	-13.00	51.20	V	-83.3
107.988000	-55.87	-13.00	42.87	V	-74.8
194.609000	-61.73	-13.00	48.73	V	-81.3
331.379000	-56.51	-13.00	43.51	V	-76.4
490.750000	-54.27	-13.00	41.27	V	-74.2
825.012000	-39.63	-13.00	26.63	V	-68.2

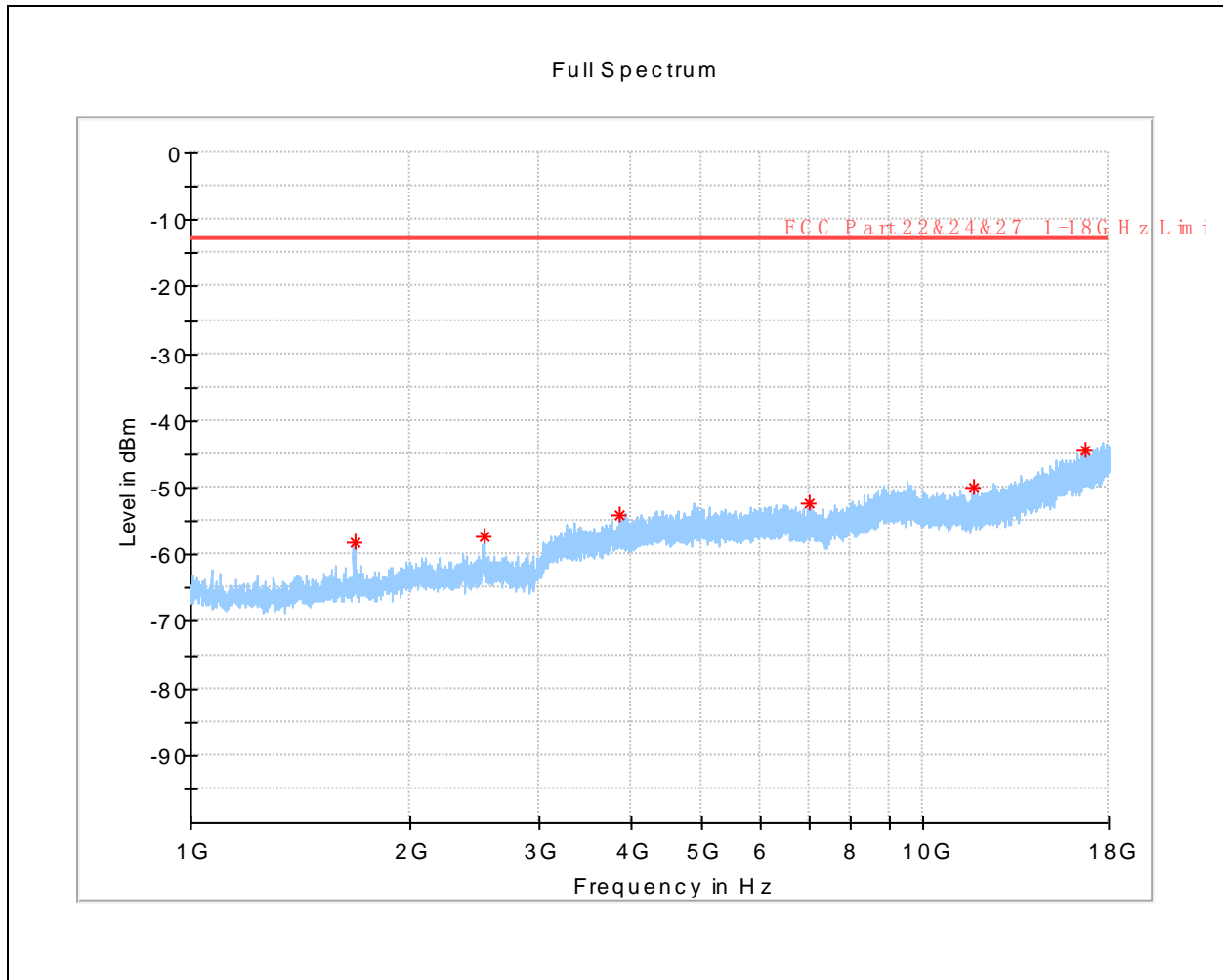


Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
1653.437500	-60.51	-13.00	47.51	V	-111.3
2493.343750	-60.54	-13.00	47.54	V	-107.7
4248.062500	-54.82	-13.00	41.82	V	-101.5
6584.500000	-53.14	-13.00	40.14	V	-98.5
9715.156250	-50.24	-13.00	37.24	V	-94.8
15304.437500	-46.36	-13.00	33.36	V	-87.9

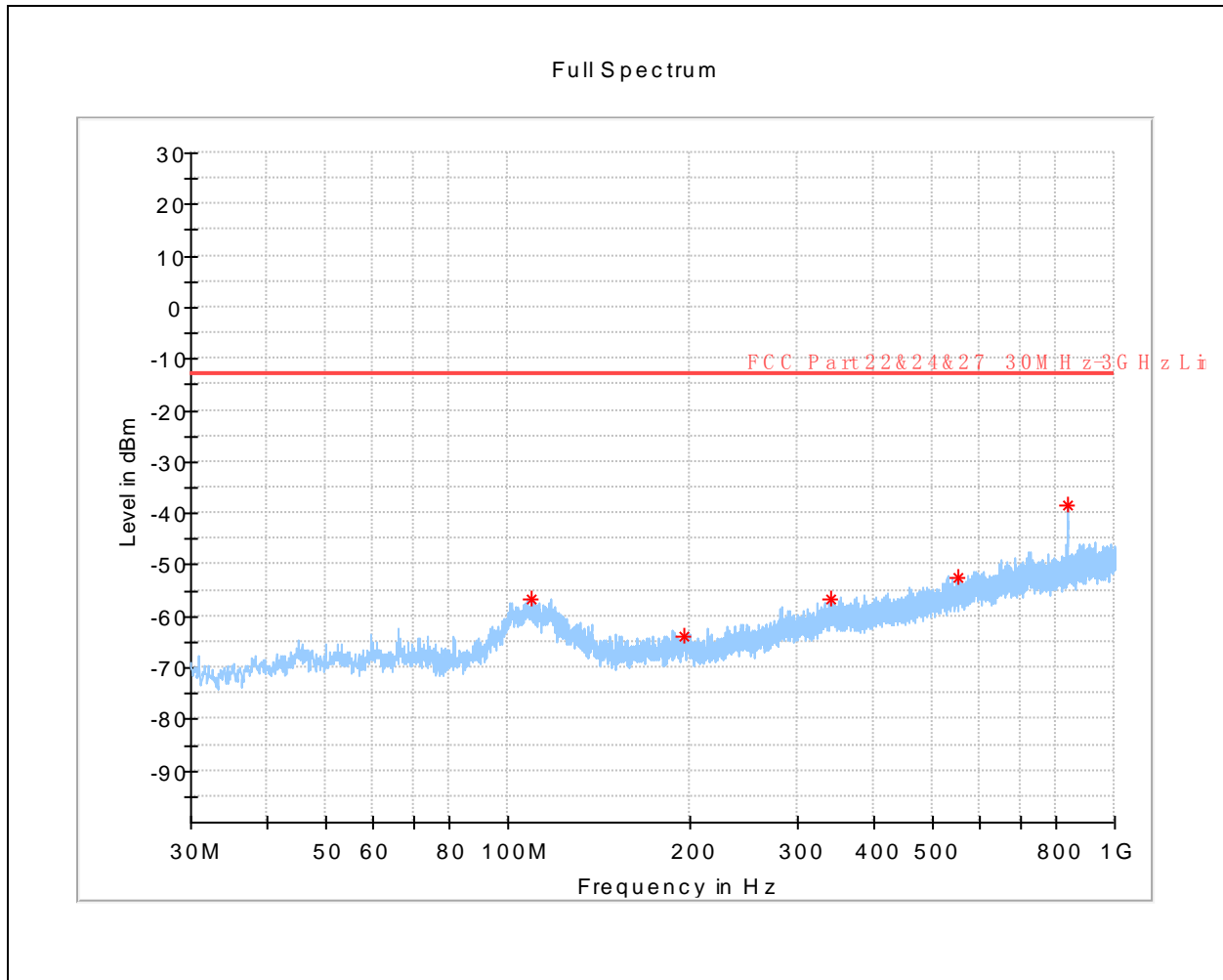


(LTE Band 5 _QPSK_ Middle Channel _ 30MHz to 1GHz _ Horizontal)

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
34.462000	-60.77	-13.00	47.77	H	-79.5
59.924500	-60.25	-13.00	47.25	H	-77.5
114.438500	-66.72	-13.00	53.72	H	-85.8
245.534000	-57.43	-13.00	44.43	H	-77.2
436.187500	-53.55	-13.00	40.55	H	-75.0
834.033000	-40.78	-13.00	27.78	H	-68.3



Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
1673.093750	-58.33	-13.00	45.33	H	-109.8
2515.125000	-57.27	-13.00	44.27	H	-106.4
3858.125000	-54.16	-13.00	41.16	H	-100.3
7018.531250	-52.24	-13.00	39.24	H	-96.9
11763.125000	-50.14	-13.00	37.14	H	-93.0
16761.656250	-44.53	-13.00	31.53	H	-84.2



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

Frequency (MHz)	MaxPeak (dBm)	Limit (dBm)	Margin (dB)	Pol	Corr. (dB)
109.152000	-56.85	-13.00	43.85	V	-75.2
194.560500	-64.03	-13.00	51.03	V	-81.4
341.030500	-56.54	-13.00	43.54	V	-76.2
550.841500	-52.65	-13.00	39.65	V	-72.9
834.130000	-38.58	N/A	N/A	V	-68.2