



REPORT No.: SZ25080397W01

TEST REPORT

APPLICANT : SIMCom Wireless Solutions Limited

PRODUCT NAME : LTE Module

MODEL NAME : A7670G

BRAND NAME : SIMCom

FCC ID : 2AJYU-8BM0002

STANDARD(S) : 47 CFR Part 2
47 CFR Part 90, Subpart S

RECEIPT DATE : 2025-08-29

TEST DATE : 2025-09-10 to 2025-09-30

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Change History		
Version	Date	Reason for change
1.0	2025-11-04	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	SIMCom Wireless Solutions Limited
Applicant Address:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, P.R.China
Manufacturer:	SIMCom Wireless Solutions Limited
Manufacturer Address:	SIMCom Headquarters Building, Building 3, No.289 Linhong Road, Changning District, Shanghai, P.R.China

1.2. Equipment Under Test (EUT) Description

Product Name:	LTE Module	
Sample No.:	3#	
Hardware Version:	V9.01	
Software Version:	V11.0.01	
Modulation Type:	QPSK, 16QAM	
UE Category:	Cat 1bis	
Operation Band:	Band 18, 26	
Frequency Range:	LTE Band 18	Tx: 815MHz–824MHz
		Rx: 860MHz–869MHz
	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 18	5MHz
	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	Fixed External Antenna	
Antenna Gain:	LTE Band 18	0.64dBi
	LTE Band 26	0.64dBi

Note 1: The EUT description presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information. For a more detailed description, please refer to Specification or User's Manual supplied by the applicant and/or manufacturer.

Note 2: This is a variant report of original report (Report No.: SZ25080396W01, FCC ID: 2AJYU-8BM0001), based on the similarity between before, the differences between them is the



GNSS main chip scheme and the number of solder pads at the bottom of the PCB, simultaneously change the product model name, hardware version and FCC ID. The changes do not affect the test results in this report.

1.3. Maximum E.R.P./E.I.R.P. and Emission Designator

LTE Band 18	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
5	0.154	0.125	4M49G7D	4M49W7D
LTE Band 26	Maximum E.R.P./E.I.R.P. (W)		Emission Designator (99%OBW)	
BW(MHz)	QPSK	16QAM	QPSK	16QAM
10	0.152	0.129	8M98G7D	4M55W7D
5	0.153	0.127	4M49G7D	4M49W7D
3	0.146	0.132	2M70G7D	2M70W7D
1.4	0.156	0.125	1M10G7D	1M10W7D



1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2 and Part 90 for the EUT FCC ID Certification:

No.	Identity	Document Title
1	47 CFR Part 2	Frequency Allocations and Radio Treaty Matters; General Rules and Regulations
2	47 CFR Part 90	Miscellaneous Wireless Communications Services

Test detailed items/section required by FCC rules and results are as below:

Section	Description	Test Date	Test Engineer	Result	Remark
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Sep. 29, 2025	Yu Xiaoming Liu Huiyan	PASS	/
90.209	Occupied Bandwidth	Sep. 15&16, 2025	Liu Huiyan	PASS	/
2.1055, 90.213	Frequency Stability	Sep. 26, 2025	Liu Huiyan	PASS	/
2.1051, 90.691	Conducted Spurious Emissions	Sep. 15&16, 2025	Liu Huiyan	PASS	/
2.1051, 90.691	Band Edge	Sep. 15&16, 2025	Liu Huiyan	PASS	/
2.1053, 90.691	Radiated Spurious Emissions	Sep. 16, 2025	Wang Deyong	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in KDB 971168 D01 v03 and ANSI/TIA-603-E-2016.

Note 2: Any additions, deviation, or exclusions from the method shall be noted in the "Remark".

Note 3: The antenna gain presented in the report are provided by applicant and/or manufacturer, and the test laboratory is not responsible for the accuracy of the information.

Note 4: The test results of these test items in this report refer to the test report (Report No.: SZ25080396W01).



1.5. Environmental Conditions

During the measurement, the environmental conditions were within the listed ranges:

Temperature (°C):	15-35
Relative Humidity (%):	30-60
Atmospheric Pressure (kPa):	86-106

2.47 CFR Part 2, Part 90S Requirements

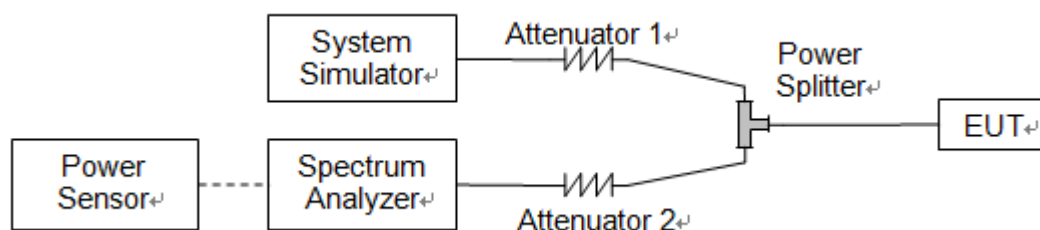
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

2.1.1. Requirement

According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current and voltage on the circuit elements specified in FCC section 2.1033(c)(8).

According to FCC section 90.635(b) for LTE Band 26, the maximum output power of the transmitter for mobile stations is 100 watts.

2.1.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.1.3. Test procedure

KDB 971168 D01v03 Section 5.2 and ANSI/TIA-603-E-2016.

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

$ERP \text{ (dBm)} = EIPR \text{ (dBm)} - 2.15$

**2.1.4. Result****Conducted Output Power**

LTE Band 18						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23875	23895	23915
Frequency (MHz)				817.5	819.5	821.5
5	QPSK	1	0	21.25	21.74	21.57
5	QPSK	1	12	23.16	23.09	23.13
5	QPSK	1	24	23.36	23.38	23.35
5	QPSK	12	0	21.82	21.61	21.70
5	QPSK	12	7	21.78	21.67	21.76
5	QPSK	12	13	21.76	21.77	21.82
5	QPSK	25	0	21.77	21.65	21.68
5	16QAM	1	0	22.39	22.25	22.29
5	16QAM	1	12	22.02	21.95	22.07
5	16QAM	1	24	22.35	22.33	22.48
5	16QAM	12	0	20.92	20.86	20.94
5	16QAM	12	7	20.89	21.04	21.05
5	16QAM	12	13	20.97	21.04	21.11



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	26740	/
Frequency (MHz)				/	819.0	/
10	QPSK	1	0	/	22.29	/
10	QPSK	1	25	/	23.17	/
10	QPSK	1	49	/	23.32	/
10	QPSK	25	0	/	22.11	/
10	QPSK	25	12	/	21.97	/
10	QPSK	25	25	/	21.97	/
10	QPSK	50	0	/	22.09	/
10	16QAM	1	0	/	22.63	/
10	16QAM	1	12	/	22.21	/
10	16QAM	1	24	/	22.45	/
10	16QAM	25	0	/	21.19	/
10	16QAM	25	24	/	21.06	/



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26715	26740	26765
Frequency (MHz)				816.5	819.0	821.5
5	QPSK	1	0	22.99	22.59	22.95
5	QPSK	1	12	23.37	23.21	23.21
5	QPSK	1	24	23.33	23.32	23.19
5	QPSK	12	0	22.33	22.31	22.25
5	QPSK	12	7	22.31	22.30	22.16
5	QPSK	12	13	22.23	22.24	22.20
5	QPSK	25	0	22.22	22.25	22.19
5	16QAM	1	0	22.54	22.48	22.55
5	16QAM	1	12	22.46	22.28	22.25
5	16QAM	1	24	22.39	22.37	22.36
5	16QAM	12	0	21.38	21.33	21.28
5	16QAM	12	7	21.19	21.23	21.21
5	16QAM	12	13	21.25	21.25	21.25



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26705	26740	26775
Frequency (MHz)				815.5	819.0	822.5
3	QPSK	1	0	23.14	23.16	23.01
3	QPSK	1	8	23.13	23.15	23.11
3	QPSK	1	14	23.04	23.12	23.14
3	QPSK	8	0	22.44	22.45	22.43
3	QPSK	8	4	22.41	22.40	22.40
3	QPSK	8	7	22.42	22.36	22.37
3	QPSK	15	0	22.43	22.41	22.41
3	16QAM	1	0	22.55	22.71	22.38
3	16QAM	1	8	22.37	22.43	22.48
3	16QAM	1	14	22.51	22.57	22.59
3	16QAM	8	0	21.44	21.48	21.36
3	16QAM	8	4	21.50	21.52	21.51
3	16QAM	8	7	21.52	21.46	21.45
3	16QAM	15	0	21.37	21.41	21.42



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26697	26740	26783
Frequency (MHz)				814.7	819.0	823.3
1.4	QPSK	1	0	22.98	22.92	22.86
1.4	QPSK	1	3	23.43	23.18	23.21
1.4	QPSK	1	5	23.23	23.09	23.11
1.4	QPSK	3	0	23.32	22.96	23.08
1.4	QPSK	3	1	23.26	22.97	23.03
1.4	QPSK	3	3	23.23	22.98	23.06
1.4	QPSK	6	0	22.16	21.74	21.86
1.4	16QAM	1	0	22.48	22.00	22.09
1.4	16QAM	1	3	22.32	22.04	22.13
1.4	16QAM	1	5	22.33	22.07	22.12
1.4	16QAM	3	0	22.21	21.73	21.81
1.4	16QAM	3	1	22.18	21.77	21.88
1.4	16QAM	3	3	22.08	21.76	21.89
1.4	16QAM	6	0	21.28	20.93	21.10

**Effective Radiated Power and Effective Isotropic Radiated Power**

LTE Band 18				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26715		26740		26765	
Frequency (MHz)				816.5		819.0		821.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	19.74	0.094	20.23	0.105	20.06	0.101
5	QPSK	1	12	21.65	0.146	21.58	0.144	21.62	0.145
5	QPSK	1	24	21.85	0.153	21.87	0.154	21.84	0.153
5	QPSK	12	0	20.31	0.107	20.10	0.102	20.19	0.104
5	QPSK	12	7	20.27	0.106	20.16	0.104	20.25	0.106
5	QPSK	12	13	20.25	0.106	20.26	0.106	20.31	0.107
5	QPSK	25	0	20.26	0.106	20.14	0.103	20.17	0.104
5	16QAM	1	0	20.88	0.122	20.74	0.119	20.78	0.120
5	16QAM	1	12	20.51	0.112	20.44	0.111	20.56	0.114
5	16QAM	1	24	20.84	0.121	20.82	0.121	20.97	0.125
5	16QAM	12	0	19.41	0.087	19.35	0.086	19.43	0.088
5	16QAM	12	7	19.38	0.087	19.53	0.090	19.54	0.090
5	16QAM	12	13	19.46	0.088	19.53	0.090	19.60	0.091



LTE Band 26				Measured E.R.P.			
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.	Middle Ch. / Freq.		High Ch. / Freq.
Channel				/	26740		/
Frequency (MHz)				/	819		/
				/	dBm	W	/
10	QPSK	1	0	/	20.78	0.120	/
10	QPSK	1	25	/	21.66	0.147	/
10	QPSK	1	49	/	21.81	0.152	/
10	QPSK	25	0	/	20.60	0.115	/
10	QPSK	25	12	/	20.46	0.111	/
10	QPSK	25	25	/	20.46	0.111	/
10	QPSK	50	0	/	20.58	0.114	/
10	16QAM	1	0	/	21.12	0.129	/
10	16QAM	1	12	/	20.70	0.117	/
10	16QAM	1	24	/	20.94	0.124	/
10	16QAM	25	0	/	19.68	0.093	/
10	16QAM	25	24	/	19.55	0.090	/



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26715		26740		26765	
Frequency (MHz)				816.5		819.0		821.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.48	0.141	21.08	0.128	21.44	0.139
5	QPSK	1	12	21.86	0.153	21.70	0.148	21.70	0.148
5	QPSK	1	24	21.82	0.152	21.81	0.152	21.68	0.147
5	QPSK	12	0	20.82	0.121	20.80	0.120	20.74	0.118
5	QPSK	12	7	20.80	0.120	20.79	0.120	20.65	0.116
5	QPSK	12	13	20.72	0.118	20.73	0.118	20.69	0.117
5	QPSK	25	0	20.71	0.118	20.74	0.118	20.68	0.117
5	16QAM	1	0	21.03	0.127	20.97	0.125	21.04	0.127
5	16QAM	1	12	20.95	0.124	20.77	0.119	20.74	0.119
5	16QAM	1	24	20.88	0.122	20.86	0.122	20.85	0.122
5	16QAM	12	0	19.87	0.097	19.82	0.096	19.77	0.095
5	16QAM	12	7	19.68	0.093	19.72	0.094	19.70	0.093
5	16QAM	12	13	19.74	0.094	19.74	0.094	19.74	0.094



LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26705		26740		26775	
Frequency (MHz)				815.5		819.0		822.5	
				dBm	W	dBm	W	dBm	W
3	QPSK	1	0	21.63	0.146	21.65	0.146	21.50	0.141
3	QPSK	1	8	21.62	0.145	21.64	0.146	21.60	0.145
3	QPSK	1	14	21.53	0.142	21.61	0.145	21.63	0.146
3	QPSK	8	0	20.93	0.124	20.94	0.124	20.92	0.124
3	QPSK	8	4	20.90	0.123	20.89	0.123	20.89	0.123
3	QPSK	8	7	20.91	0.123	20.85	0.122	20.86	0.122
3	QPSK	15	0	20.92	0.124	20.90	0.123	20.90	0.123
3	16QAM	1	0	21.04	0.127	21.20	0.132	20.87	0.122
3	16QAM	1	8	20.86	0.122	20.92	0.124	20.97	0.125
3	16QAM	1	14	21.00	0.126	21.06	0.128	21.08	0.128
3	16QAM	8	0	19.93	0.098	19.97	0.099	19.85	0.097
3	16QAM	8	4	19.99	0.100	20.01	0.100	20.00	0.100
3	16QAM	8	7	20.01	0.100	19.95	0.099	19.94	0.099
3	16QAM	15	0	19.86	0.097	19.90	0.098	19.91	0.098



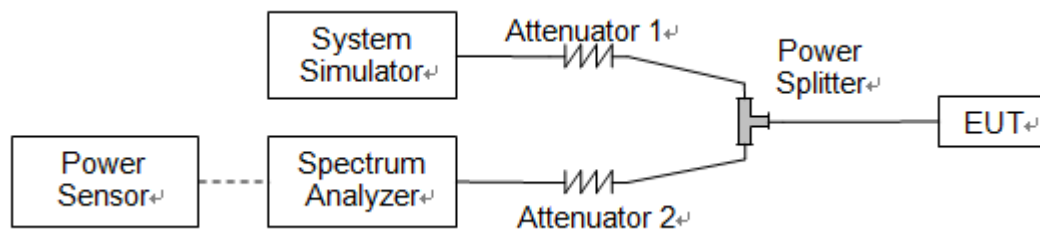
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.47	0.140	21.41	0.138	21.35	0.136
1.4	QPSK	1	3	21.92	0.156	21.67	0.147	21.70	0.148
1.4	QPSK	1	5	21.72	0.149	21.58	0.144	21.60	0.145
1.4	QPSK	3	0	21.81	0.152	21.45	0.140	21.57	0.144
1.4	QPSK	3	1	21.75	0.150	21.46	0.140	21.52	0.142
1.4	QPSK	3	3	21.72	0.149	21.47	0.140	21.55	0.143
1.4	QPSK	6	0	20.65	0.116	20.23	0.105	20.35	0.108
1.4	16QAM	1	0	20.97	0.125	20.49	0.112	20.58	0.114
1.4	16QAM	1	3	20.81	0.121	20.53	0.113	20.62	0.115
1.4	16QAM	1	5	20.82	0.121	20.56	0.114	20.61	0.115
1.4	16QAM	3	0	20.70	0.117	20.22	0.105	20.30	0.107
1.4	16QAM	3	1	20.67	0.117	20.26	0.106	20.37	0.109
1.4	16QAM	3	3	20.57	0.114	20.25	0.106	20.38	0.109
1.4	16QAM	6	0	19.77	0.095	19.42	0.087	19.59	0.091

2.2. Occupied Bandwidth

2.2.1. Requirement

According to FCC section 2.1049, the occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power radiated by a given emission. Occupied bandwidth is also known as the 99% emission bandwidth.

2.2.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.2.3. Test procedure

KDB 971168 D01v03 Section 4.1 and ANSI/TIA-603-E-2016.

**2.2.4. Test Result**

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B18	5	Low	23875	817.5	QPSK	4.4801	4.9269	PASS
B18	5	Low	23875	817.5	16QAM	4.4878	4.9300	PASS
B18	5	Mid	23895	819.5	QPSK	4.4859	4.9260	PASS
B18	5	Mid	23895	819.5	16QAM	4.4826	4.8800	PASS
B18	5	High	23915	821.5	QPSK	4.4847	4.8761	PASS
B18	5	High	23915	821.5	16QAM	4.4810	4.9331	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26	1.4	Low	26697	814.7	QPSK	1.0904	1.2650	PASS
B26	1.4	Low	26697	814.7	16QAM	1.0970	1.2718	PASS
B26	1.4	Mid	26740	819	QPSK	1.0936	1.2629	PASS
B26	1.4	Mid	26740	819	16QAM	1.0965	1.2681	PASS
B26	1.4	High	26783	823.3	QPSK	1.0951	1.2630	PASS
B26	1.4	High	26783	823.3	16QAM	1.0999	1.2694	PASS
B26	3	Low	26705	815.5	QPSK	2.6974	2.9552	PASS
B26	3	Low	26705	815.5	16QAM	2.6930	2.9468	PASS
B26	3	Mid	26740	819	QPSK	2.6945	2.9345	PASS
B26	3	Mid	26740	819	16QAM	2.6984	2.9577	PASS
B26	3	High	26775	822.5	QPSK	2.6944	2.9383	PASS
B26	3	High	26775	822.5	16QAM	2.6986	2.9457	PASS
B26	5	Low	26715	816.5	QPSK	4.4884	4.8884	PASS
B26	5	Low	26715	816.5	16QAM	4.4930	4.9139	PASS
B26	5	Mid	26740	819	QPSK	4.4899	4.9100	PASS
B26	5	Mid	26740	819	16QAM	4.4877	4.9096	PASS
B26	5	High	26765	821.5	QPSK	4.4830	4.9309	PASS
B26	5	High	26765	821.5	16QAM	4.4814	4.8614	PASS
B26	10	Low	26740	819	QPSK	8.9670	9.6599	PASS
B26	10	Low	26740	819	16QAM	4.5463	5.2353	PASS
B26	10	Mid	26740	819	QPSK	8.9753	9.6211	PASS
B26	10	Mid	26740	819	16QAM	4.5510	5.1052	PASS
B26	10	High	26740	819	QPSK	8.9778	9.6461	PASS
B26	10	High	26740	819	16QAM	4.5427	5.1412	PASS



B18 / 5MHz / QPSK/ Low CH



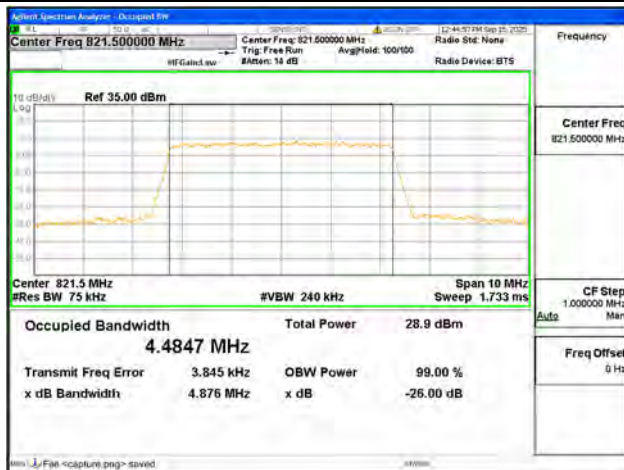
B18 / 5MHz / 16QAM/ Low CH



B18 / 5MHz / QPSK/ Mid CH



B18 / 5MHz / 16QAM/ Mid CH



B18 / 5MHz / QPSK/ High CH



B18 / 5MHz / 16QAM/ High CH



B26 / 1.4MHz / QPSK/ Low CH



B26 / 1.4MHz / 16QAM/ Low CH



B26 / 1.4MHz / QPSK/ Mid CH



B26 / 1.4MHz / 16QAM/ Mid CH



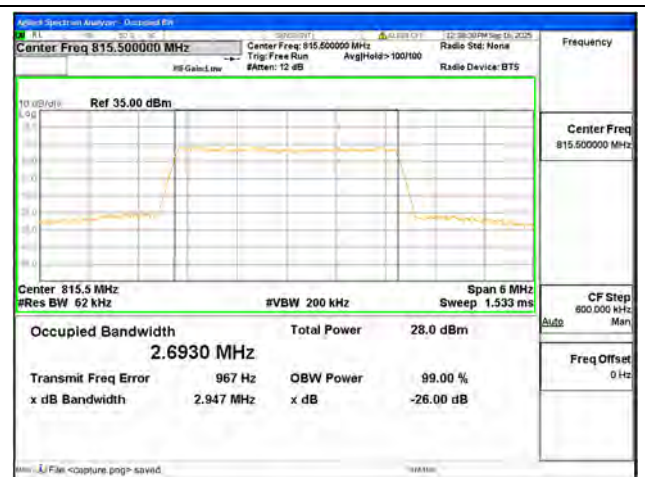
B26 / 1.4MHz / QPSK/ High CH



B26 / 1.4MHz / 16QAM/ High CH



B26 / 3MHz / QPSK/ Low CH



B26 / 3MHz / 16QAM/ Low CH



B26 / 3MHz / QPSK/ Mid CH



B26 / 3MHz / 16QAM/ Mid CH



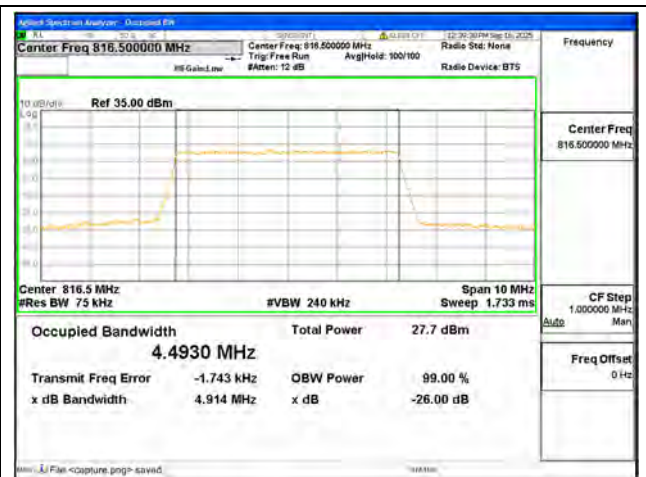
B26 / 3MHz / QPSK/ High CH



B26 / 3MHz / 16QAM/ High CH



B26 / 5MHz / QPSK/ Low CH



B26 / 5MHz / 16QAM/ Low CH



B26 / 5MHz / QPSK/ Mid CH



B26 / 5MHz / 16QAM/ Mid CH



B26 / 5MHz / QPSK/ High CH



B26 / 5MHz / 16QAM/ High CH



B26 / 10MHz / QPSK/ Low CH



B26 / 10MHz / 16QAM/ Low CH



B26 / 10MHz / QPSK/ Mid CH



B26 / 10MHz / 16QAM/ Mid CH



B26 / 10MHz / QPSK/ High CH



B26 / 10MHz / 16QAM/ High CH

2.3. Frequency Stability

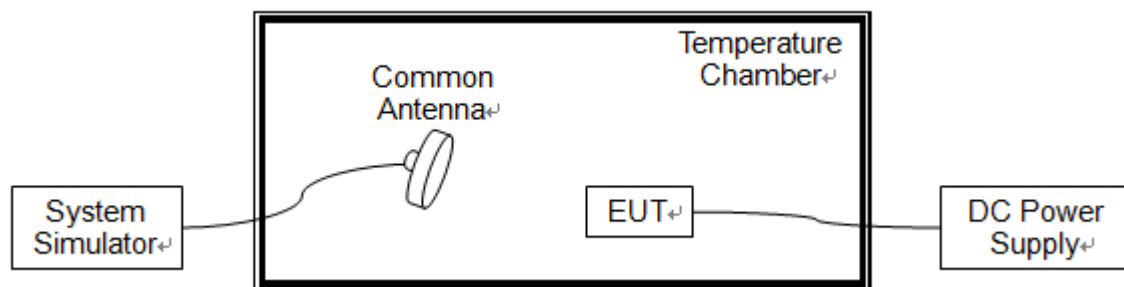
2.3.1. Requirement

According to FCC section 2.1055 & 90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

- (a) The temperature is varied from -30°C to $+50^{\circ}\text{C}$ at intervals of not more than 10°C .
- (b) For hand carried battery powered equipment, the primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacture. The supply voltage shall be measured at the input to the cable normally provided with the equipment, or at the power supply terminals if cables are not normally provided.

Note: The operating temperature of EUT is from 30°C to 75°C , which are specified by the applicant.

2.3.2. Test Description



The EUT which is powered by the DC Power Supply directly, is located in the Temperature Chamber. The EUT is commanded by the System Simulator (SS) to operate at the maximum output power. A call is established between the EUT and the SS via a Common Antenna.

2.3.3. Test procedure

KDB 971168 D01v03 Section 9.0 and ANSI/TIA-603-E-2016.

**2.3.4. Test Result**

The nominal, highest and lowest extreme voltages are separately 3.8V, 4.2V and 3.3V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 18, QPSK, Channel 23895, Frequency 819.5MHz					
Limit =Within Authorized Band					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	18	0.022	PASS
Normal		-30	15	0.018	
Normal		-20	7	0.009	
Normal		-10	13	0.016	
Normal		0	-18	-0.022	
Normal		+10	1	0.001	
Normal		+20	20	0.024	
Normal		+30	-4	-0.005	
Normal		+40	13	0.016	
Normal		+50	1	0.001	
Normal		+60	19	0.023	
Normal		+70	16	0.020	
Normal		+75	15	0.018	
High	4.20	+20	-14	-0.017	
BATT.ENDPOINT	3.30	+20	-10	-0.012	



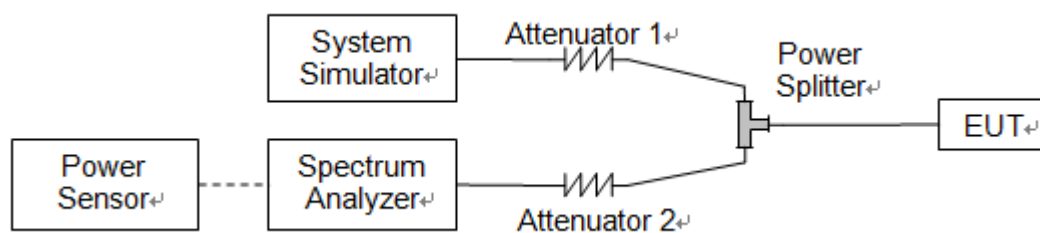
LTE Band 26, QPSK, Channel 26740, Frequency 819MHz Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	15	0.018	PASS
Normal		-30	15	0.018	
Normal		-20	18	0.022	
Normal		-10	20	0.024	
Normal		0	19	0.023	
Normal		+10	16	0.020	
Normal		+20	-13	-0.016	
Normal		+30	-14	-0.017	
Normal		+40	22	0.027	
Normal		+50	-12	-0.015	
Normal		+60	17	0.021	
Normal		+70	23	0.028	
Normal		+75	14	0.017	
High	4.20	+20	13	0.016	
BATT.ENDPOINT	3.30	+20	18	0.022	

2.4. Conducted Spurious Emissions

2.4.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

2.4.2. Test Description



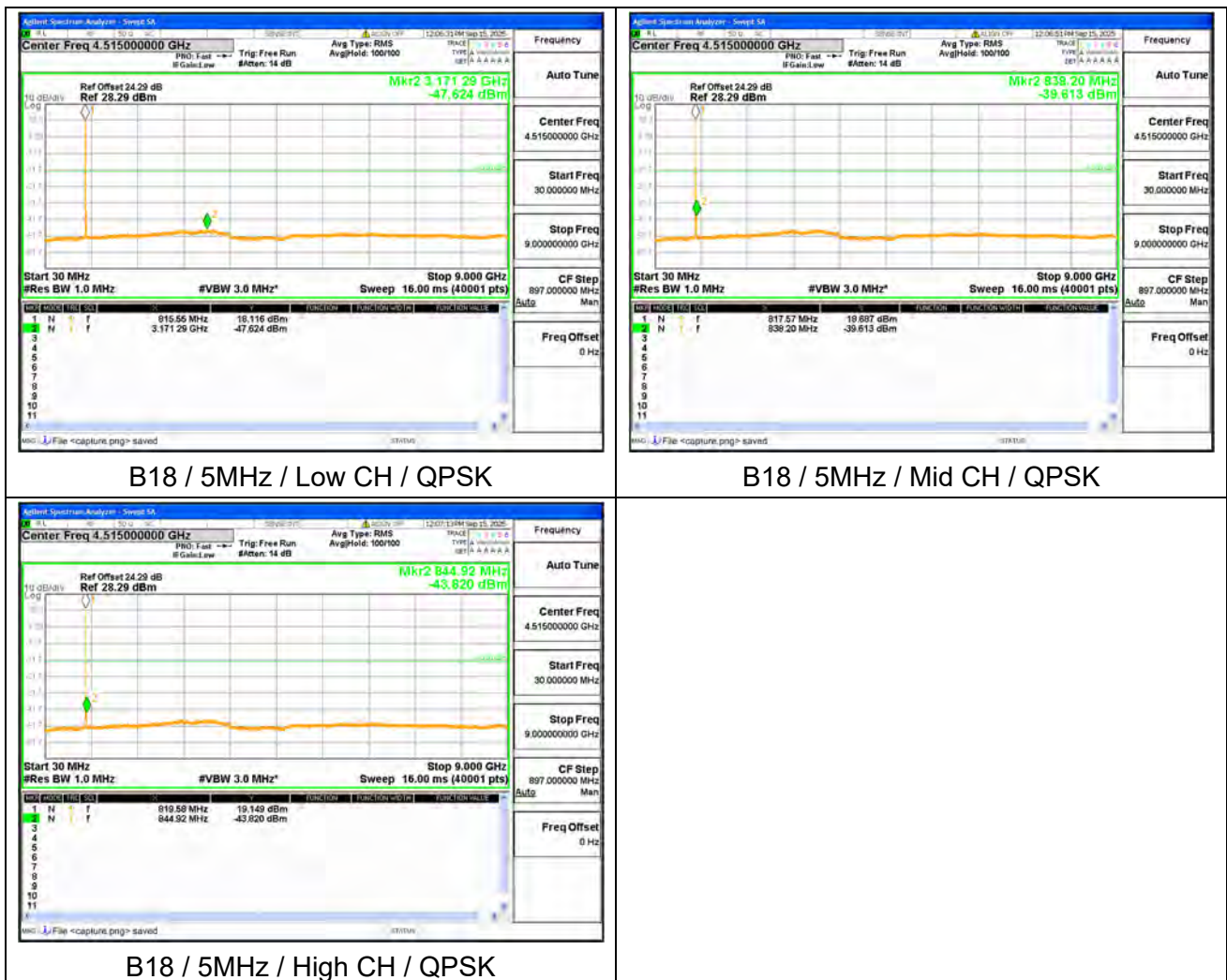
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

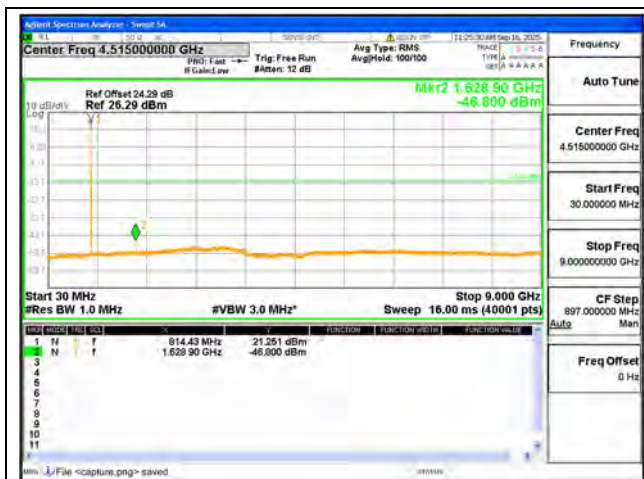
2.4.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



2.4.4. Test Result

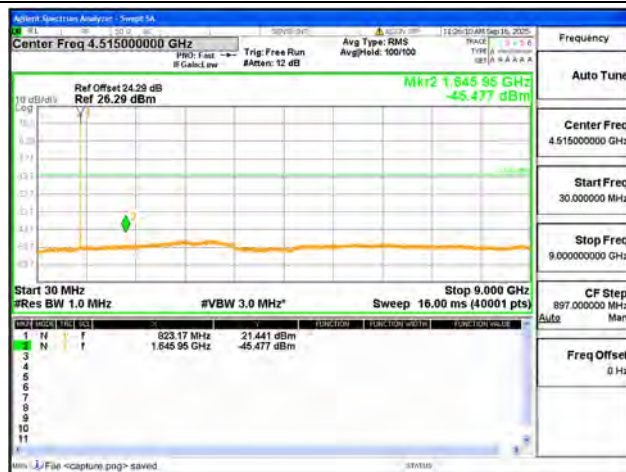




B26 / 1.4MHz / Low CH / QPSK



B26 / 1.4MHz / Mid CH / QPSK



B26 / 1.4MHz / High CH / QPSK



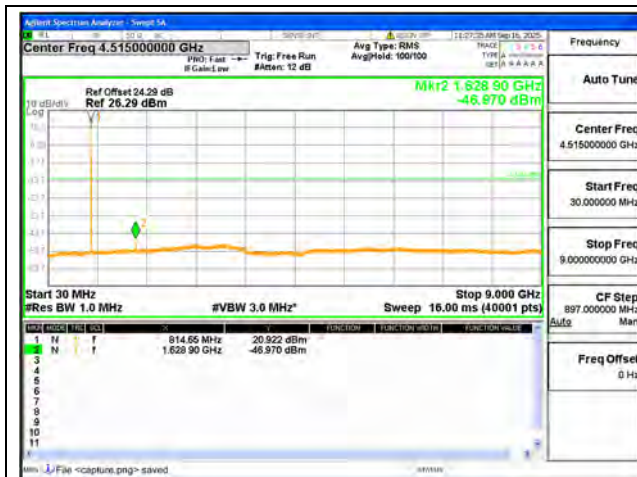
B26 / 3MHz / Low CH / QPSK



B26 / 3MHz / Mid CH / QPSK



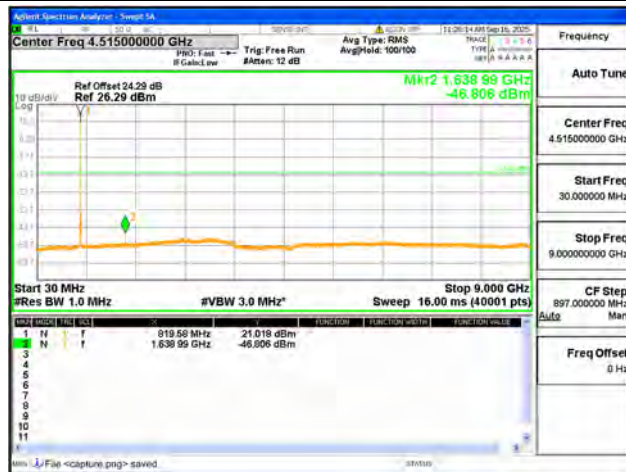
B26 / 3MHz / High CH / QPSK



B26 / 5MHz / Low CH / QPSK



B26 / 5MHz / Mid CH / QPSK



B26 / 5MHz / High CH / QPSK



B26 / 10MHz / Low CH / QPSK



B26 / 10MHz / Mid CH / QPSK



B26 / 10MHz / High CH / QPSK

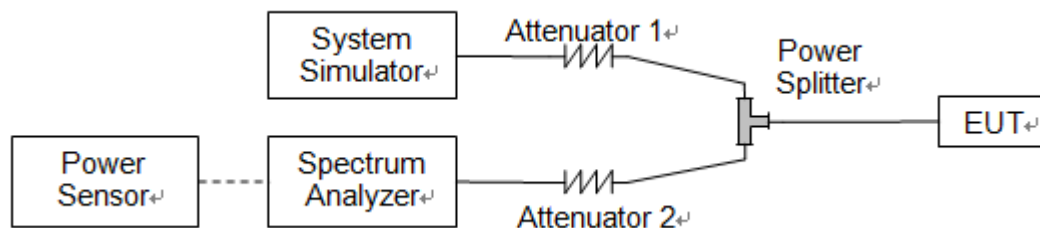
2.5. Band Edge

2.5.1. Requirement

Band26

According to FCC section 90.961(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.

2.5.2. Test Description



The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum output power. A call is established between the EUT and the SS.

2.5.3. Test procedure

KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.



2.5.4. Test Result

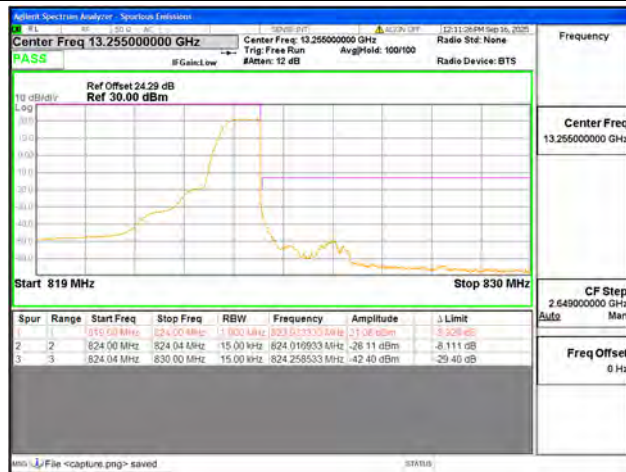




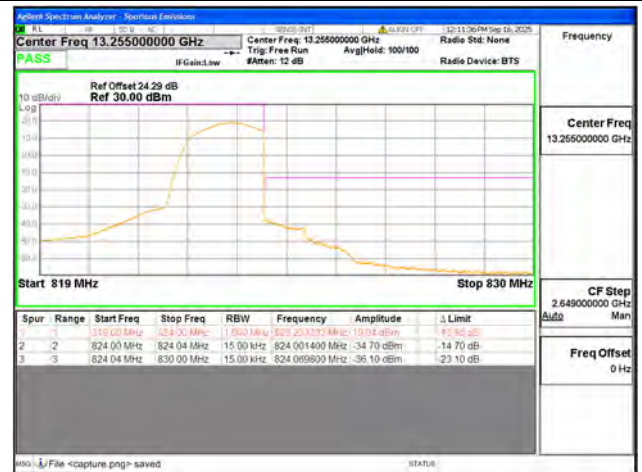
B26 / 1.4MHz / Low CH / QPSK / 1 RB



B26 / 1.4MHz / Low CH / QPSK / FULL RB



B26 / 1.4MHz / High CH / QPSK / 1 RB



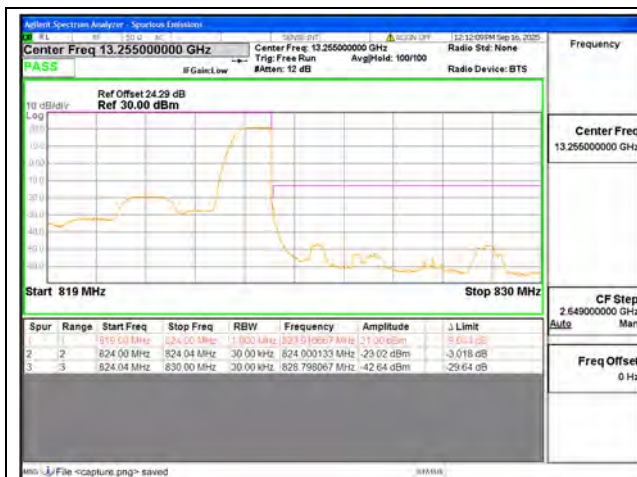
B26 / 1.4MHz / High CH / QPSK / FULL RB



B26 / 3MHz / Low CH / QPSK / 1 RB



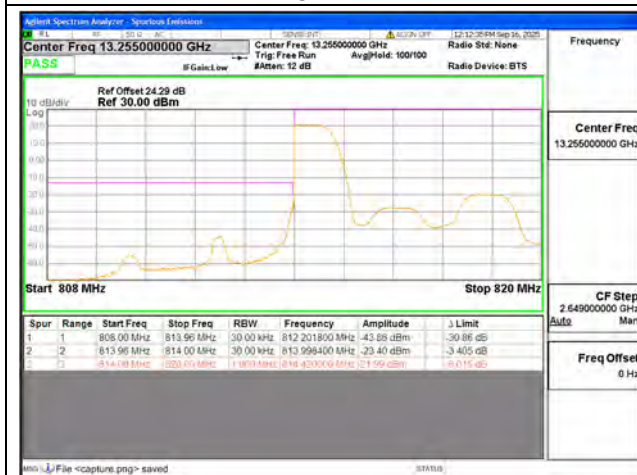
B26 / 3MHz / Low CH / QPSK / FULL RB



B26 / 3MHz / High CH / QPSK / 1 RB



B26 / 3MHz / High CH / QPSK / FULL RB



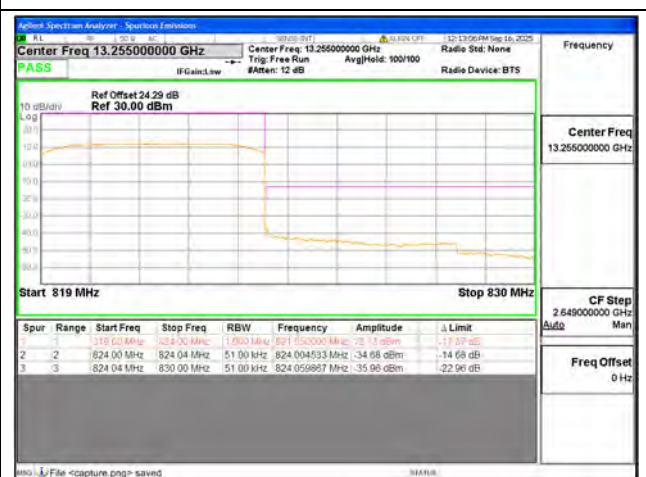
B26 / 5MHz / Low CH / QPSK / 1 RB



B26 / 5MHz / Low CH / QPSK / FULL RB



B26 / 5MHz / High CH / QPSK / 1 RB



B26 / 5MHz / High CH / QPSK / FULL RB



B26 / 10MHz / Low CH / QPSK / 1 RB



B26 / 10MHz / Low CH / QPSK / FULL RB



B26 / 10MHz / High CH / QPSK / 1 RB



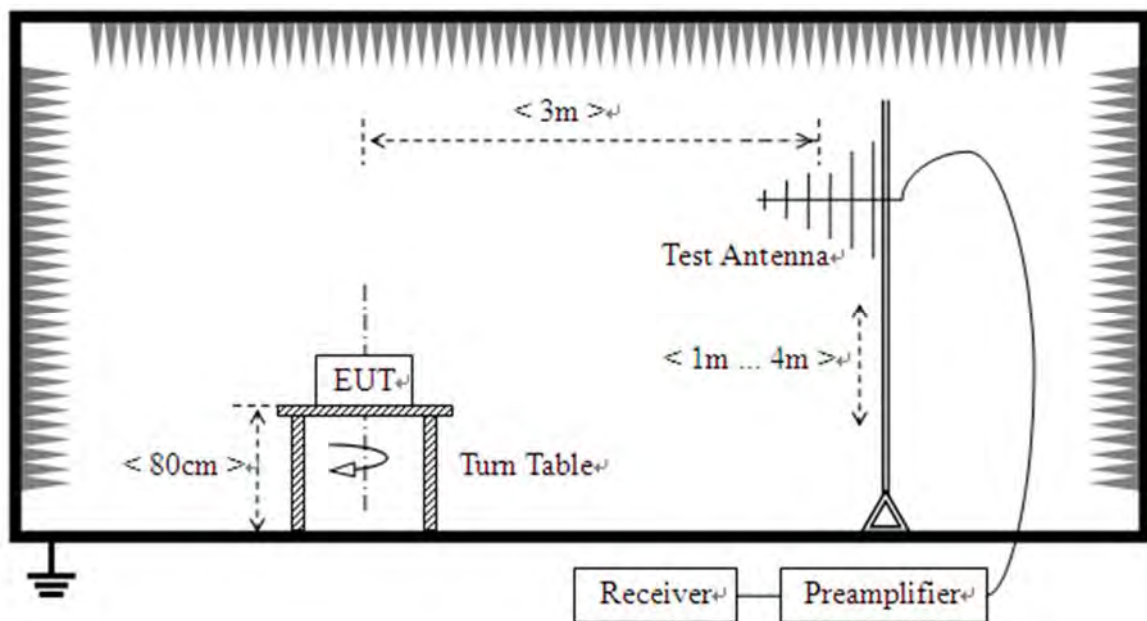
B26 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

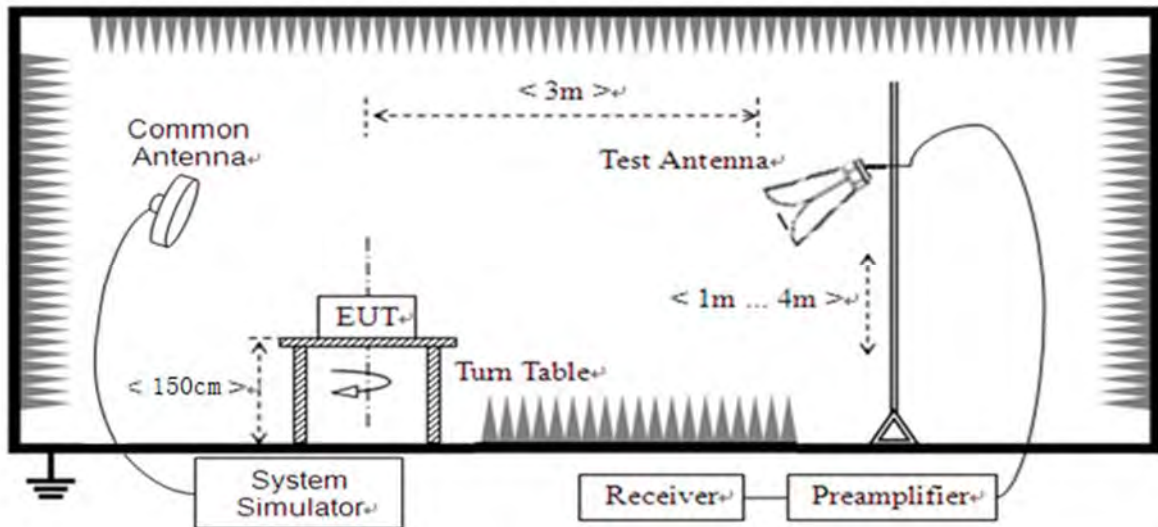
2.6.1. Requirement

According to FCC section 2.1051, 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. This calculated to be -13dBm.

2.6.2. 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.

2.6.3. Test procedure

KDB 971168 D01v03 Section 5.8 and ANSI/TIA-603-E-2016.

For measurements below 1 GHz the resolution bandwidth is set to 100 kHz for peak detection measurements.

For measurements above 1GHz the resolution bandwidth is set to 1MHz, the video band width is set to 3MHz for peak measurements.



2.6.4. Test Result

The measurement frequency range is from 30MHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. The lowest, middle and highest channels are tested to verify the out of band emissions.

The substitution corrections are obtained as described below:

$$A_{\text{SUBST}} = P_{\text{SUBST_TX}} - P_{\text{SUBST_RX}} - L_{\text{SUBST_CABLES}} + G_{\text{SUBST_TX_ANT}}$$

$$A_{\text{TOT}} = L_{\text{CABLES}} + A_{\text{SUBST}}$$

Where A_{SUBST} is the final substitution correction including receive antenna gain.

$P_{\text{SUBST_TX}}$ is signal generator level,

$P_{\text{SUBST_RX}}$ is receiver level,

$L_{\text{SUBST_CABLES}}$ is cable losses including TX cable,

$G_{\text{SUBST_TX_ANT}}$ is substitution antenna gain.

A_{TOT} is total correction factor including cable loss and substitution correction

During the test, the data of A_{TOT} was added in the test spectrum analyze, so spectrum analyze reading is the final values which contain the data of A_{TOT} .

Note 1: The power of the EUT transmitting frequency should be ignored.

Note 2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Note 3: All bandwidth and modulation were considered and evaluated respectively by performing full test for each band, only the worst cases (Max Bandwidth and QPSK mode) were recorded in this test report.

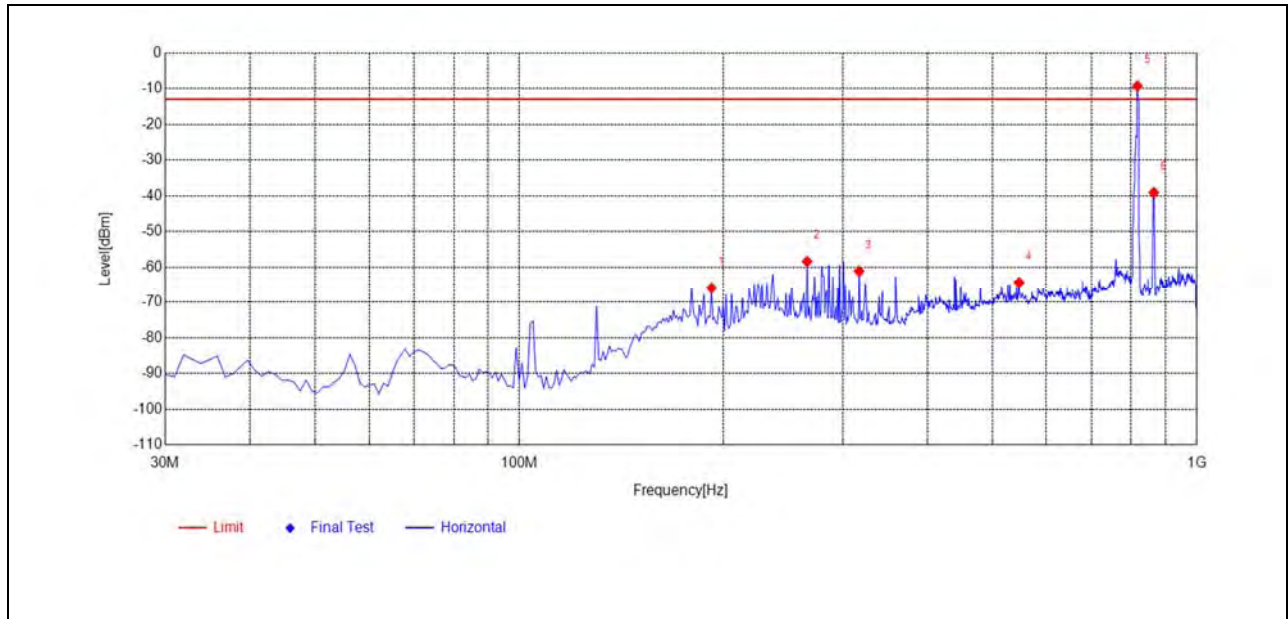
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

Note 5: The amplitude of emissions(18GHz to 10th harmonics) which are attenuated more than 20 dB below the limit are not be reported.



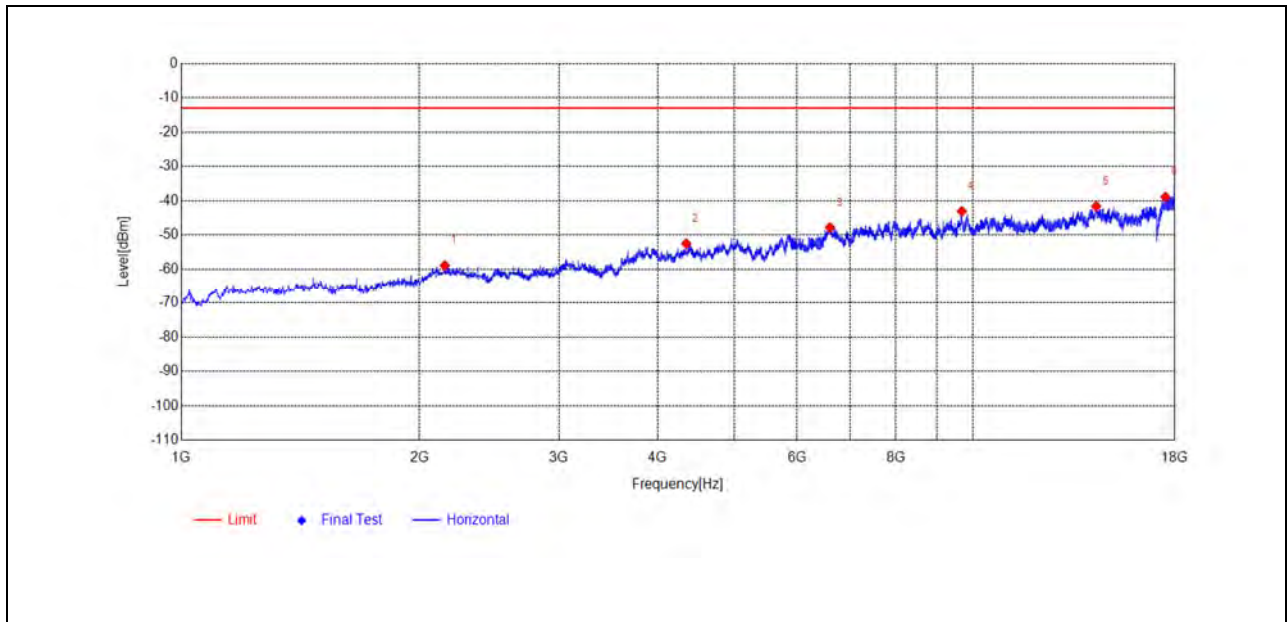
LTE Band 18

Plot for Low Channel



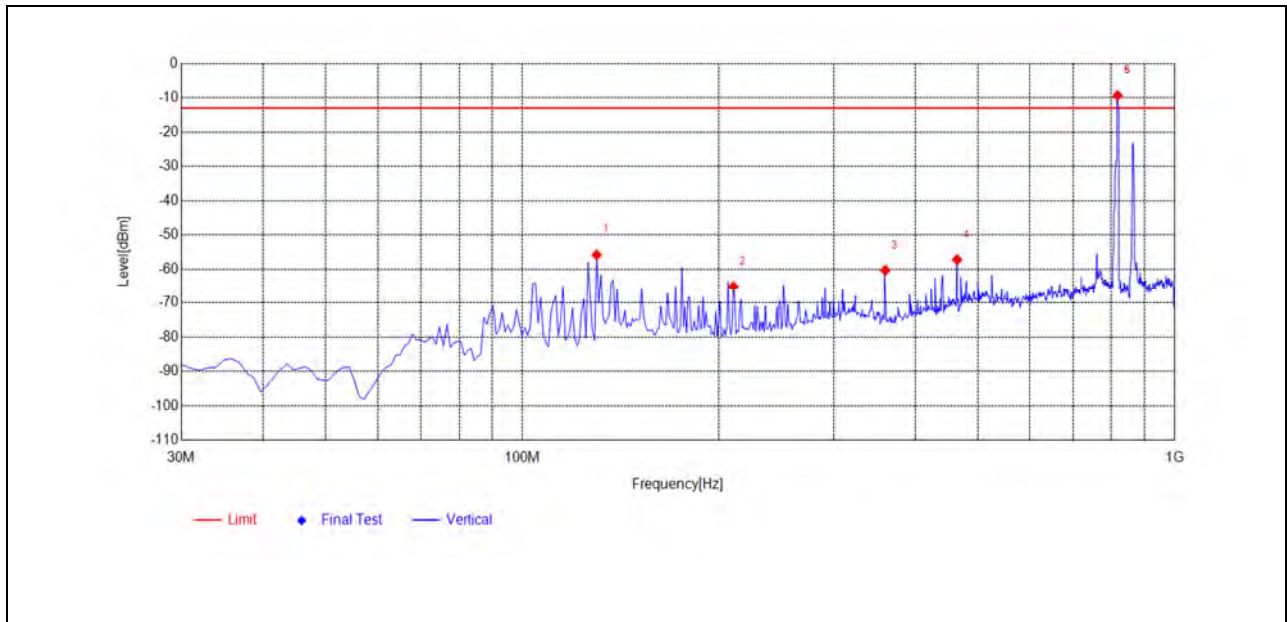
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
192.1522	-58.01	-65.93	-13.00	52.93	-7.92	Horizontal	PASS
265.9459	-52.78	-58.37	-13.00	45.37	-5.59	Horizontal	PASS
317.4074	-54.15	-61.10	-13.00	48.10	-6.95	Horizontal	PASS
546.5566	-65.55	-64.35	-13.00	51.35	1.20	Horizontal	PASS
817.4575	-14.41	-9.31	-13.00	-3.69	5.10	Horizontal	NA
864.0641	-42.69	-39.10	-13.00	26.10	3.59	Horizontal	NA



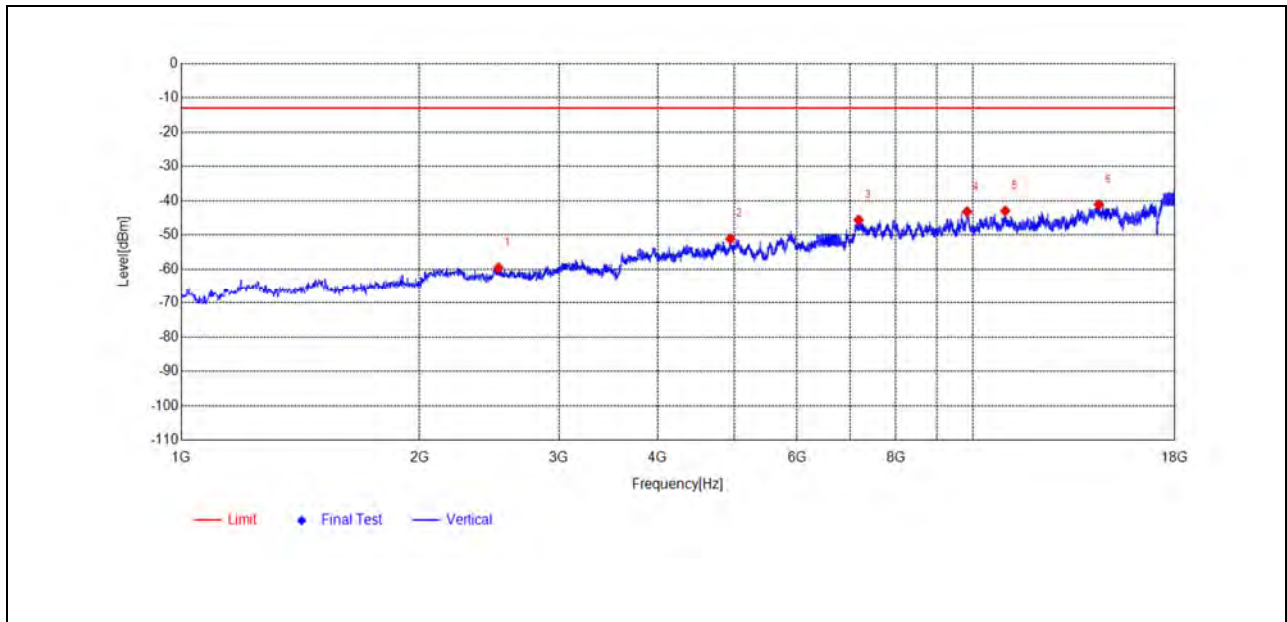
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2152.7153	-50.40	-58.91	-13.00	45.91	-8.51	Horizontal	PASS
4345.9346	-50.18	-52.52	-13.00	39.52	-2.34	Horizontal	PASS
6603.7604	-55.00	-47.81	-13.00	34.81	7.19	Horizontal	PASS
9689.5690	-57.44	-43.09	-13.00	30.09	14.35	Horizontal	PASS
14325.9326	-61.06	-41.64	-13.00	28.64	19.42	Horizontal	PASS
17529.0529	-61.03	-38.92	-13.00	25.92	22.11	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
130.0100	-42.98	-55.79	-13.00	42.79	-12.81	Vertical	PASS
210.6006	-56.07	-65.12	-13.00	52.12	-9.05	Vertical	PASS
360.1301	-54.99	-60.29	-13.00	47.29	-5.30	Vertical	PASS
464.0240	-56.50	-57.19	-13.00	44.19	-0.69	Vertical	PASS
817.4575	-14.58	-9.36	-13.00	-3.64	5.22	Vertical	NA
817.4575	-14.58	-9.36	-13.00	-3.64	5.22	Vertical	NA

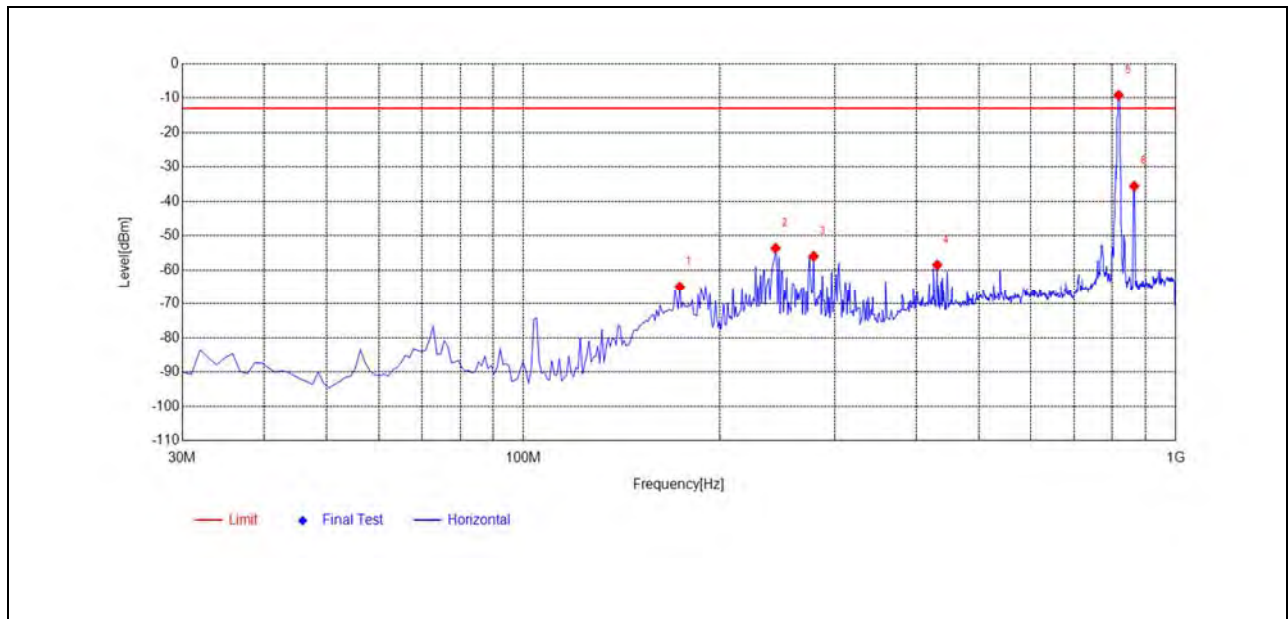


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2516.5517	-50.87	-59.57	-13.00	46.57	-8.70	Vertical	PASS
4940.9941	-50.93	-51.10	-13.00	38.10	-0.17	Vertical	PASS
7178.4178	-54.28	-45.62	-13.00	32.62	8.66	Vertical	PASS
9842.5843	-58.30	-43.22	-13.00	30.22	15.08	Vertical	PASS
10995.2995	-58.62	-42.98	-13.00	29.98	15.64	Vertical	PASS
14438.1438	-59.39	-41.13	-13.00	28.13	18.26	Vertical	PASS

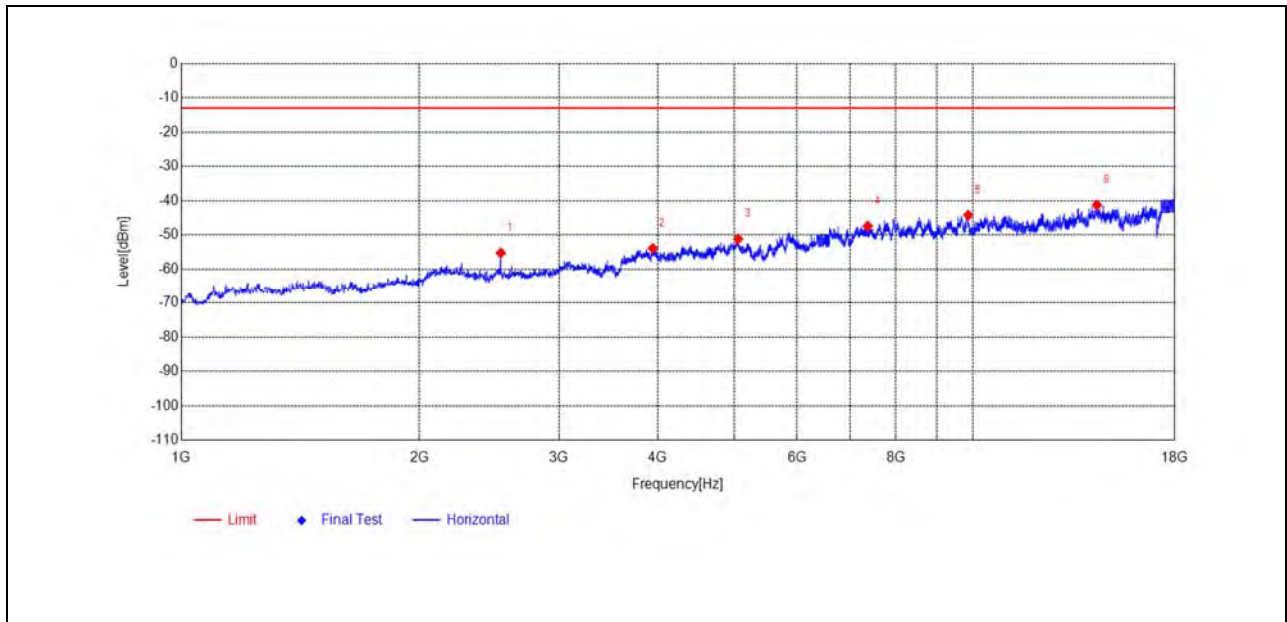


Plot for Mid Channel



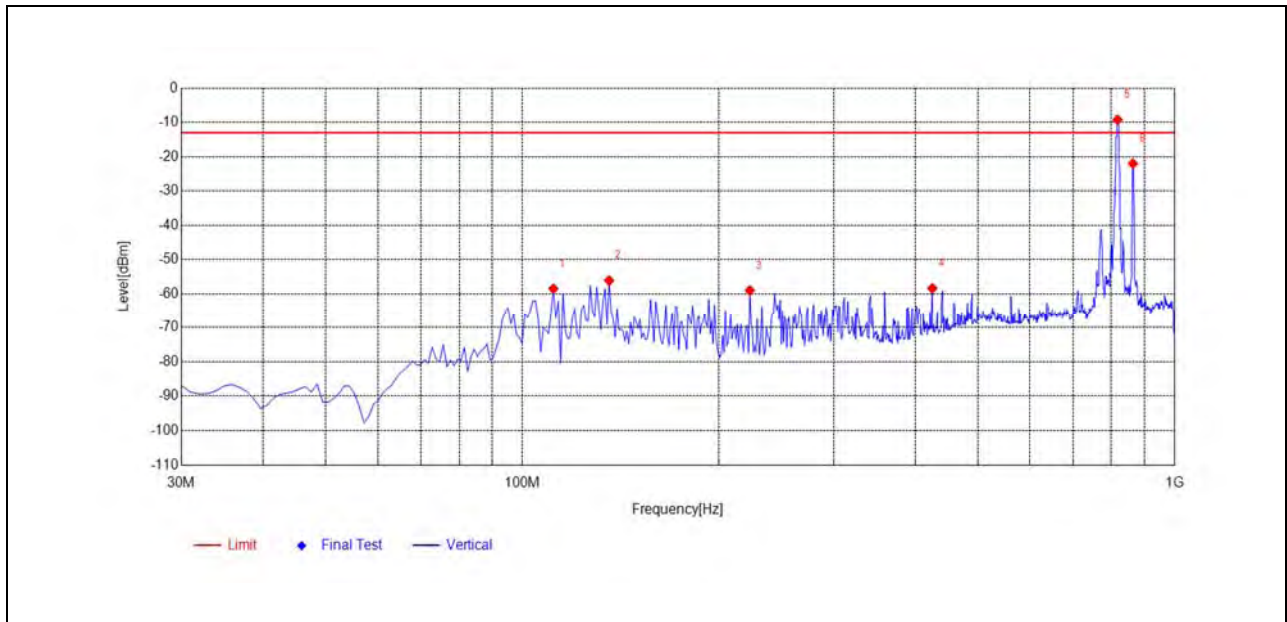
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
173.7037	-52.12	-64.91	-13.00	51.91	-12.79	Horizontal	PASS
243.6136	-49.54	-53.61	-13.00	40.61	-4.07	Horizontal	PASS
278.5686	-49.89	-55.95	-13.00	42.95	-6.06	Horizontal	PASS
431.0110	-56.41	-58.49	-13.00	45.49	-2.08	Horizontal	PASS
817.4575	-14.28	-9.18	-13.00	-3.82	5.10	Horizontal	NA
864.0641	-39.19	-35.60	-13.00	22.60	3.59	Horizontal	NA



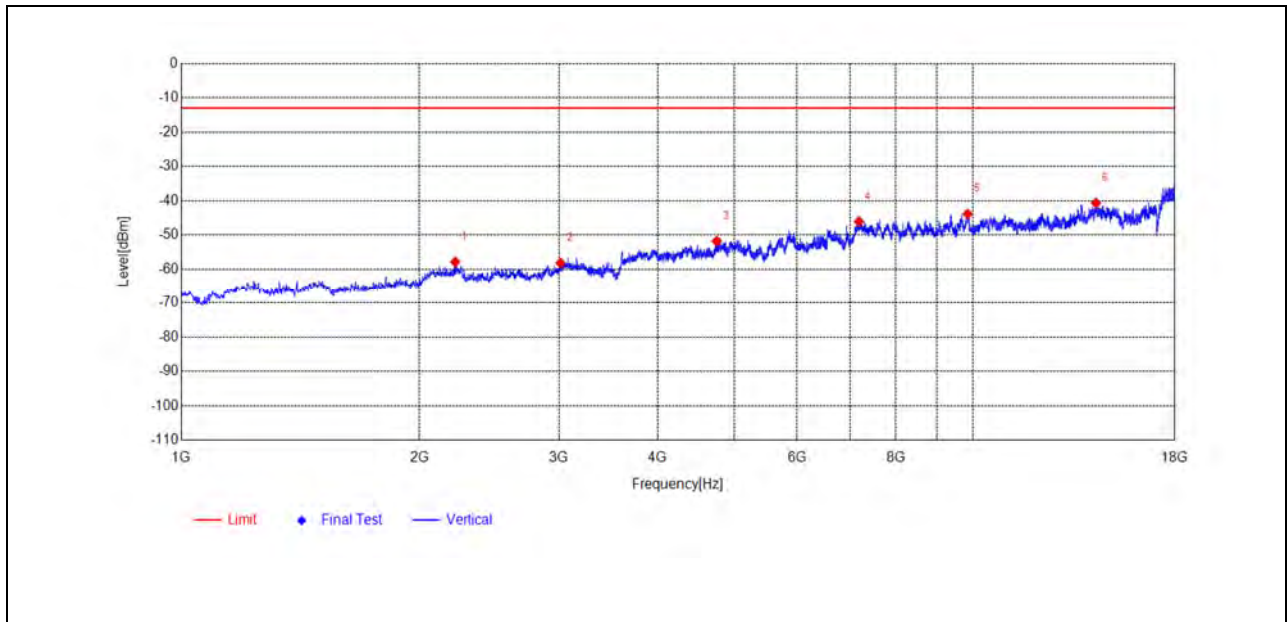
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2533.5534	-46.19	-55.23	-13.00	42.23	-9.04	Horizontal	PASS
3944.6945	-50.75	-53.89	-13.00	40.89	-3.14	Horizontal	PASS
5054.9055	-52.30	-51.14	-13.00	38.14	1.16	Horizontal	PASS
7368.8369	-55.00	-47.42	-13.00	34.42	7.58	Horizontal	PASS
9871.4871	-58.77	-44.22	-13.00	31.22	14.55	Horizontal	PASS
14358.2358	-60.25	-41.29	-13.00	28.29	18.96	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

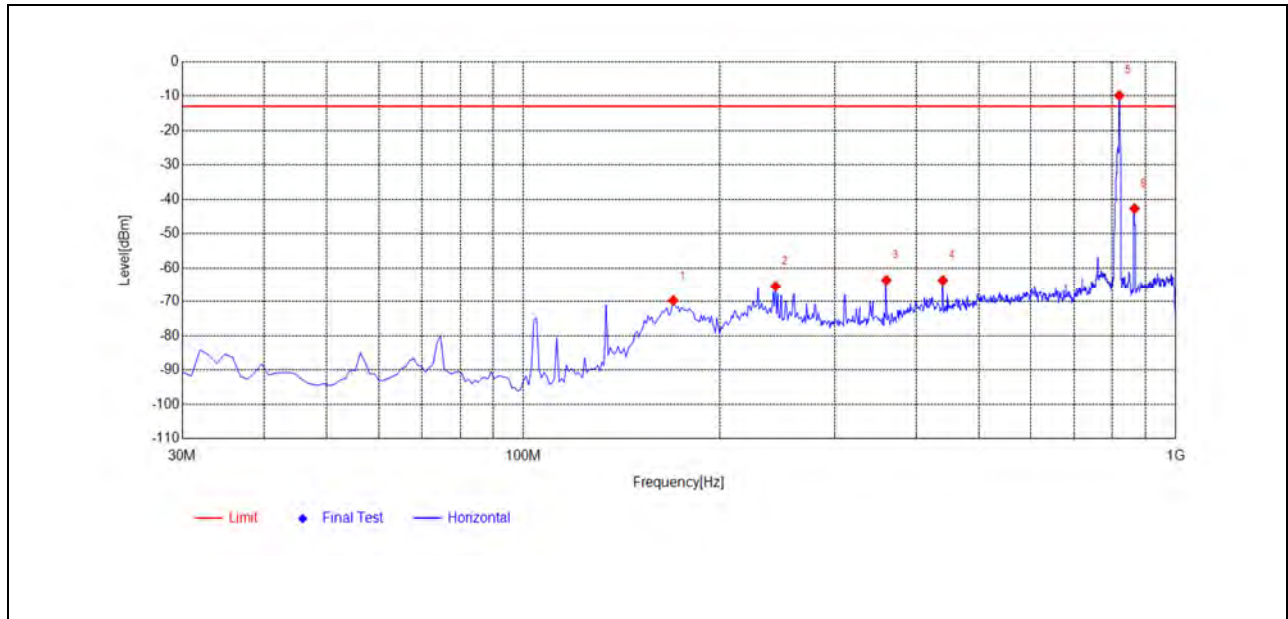
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
111.5616	-45.97	-58.51	-13.00	45.51	-12.54	Vertical	PASS
135.8358	-48.26	-56.10	-13.00	43.10	-7.84	Vertical	PASS
223.2232	-49.92	-58.98	-13.00	45.98	-9.06	Vertical	PASS
425.1852	-55.88	-58.40	-13.00	45.40	-2.52	Vertical	PASS
817.4575	-14.46	-9.24	-13.00	-3.76	5.22	Vertical	NA
863.0931	-25.83	-22.01	-13.00	9.01	3.82	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

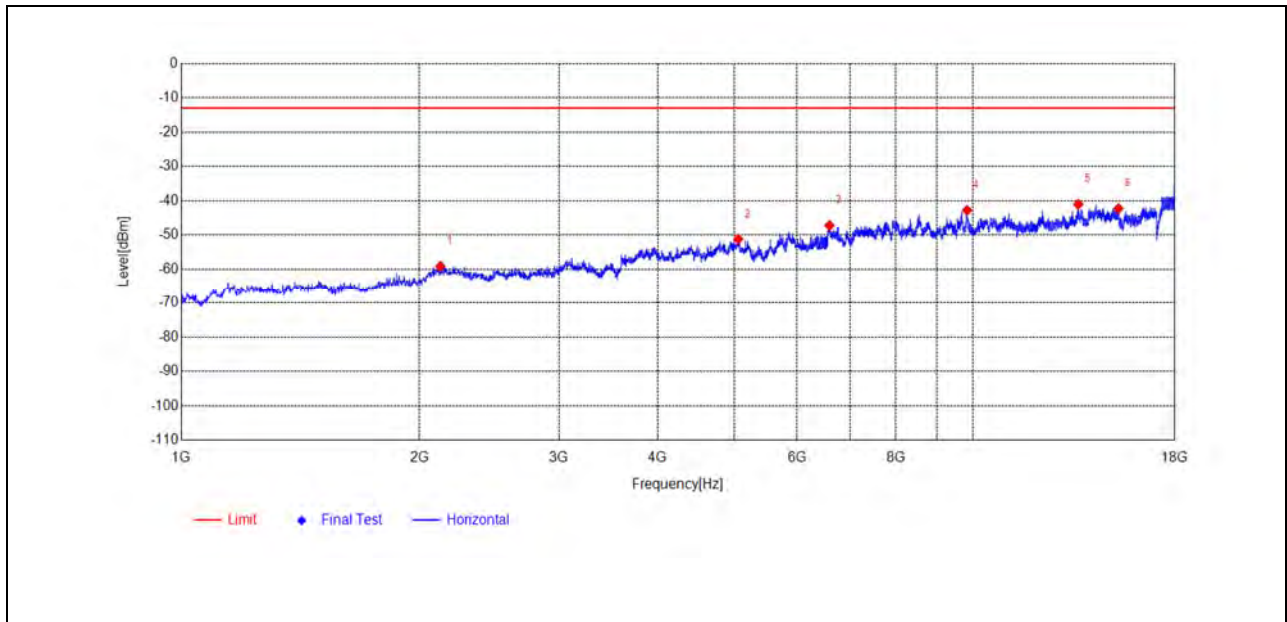
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2219.0219	-49.11	-57.85	-13.00	44.85	-8.74	Vertical	PASS
3014.7015	-51.09	-58.17	-13.00	45.17	-7.08	Vertical	PASS
4748.8749	-51.75	-51.80	-13.00	38.80	-0.05	Vertical	PASS
7183.5184	-54.66	-46.08	-13.00	33.08	8.58	Vertical	PASS
9857.8858	-59.26	-43.88	-13.00	30.88	15.38	Vertical	PASS
14319.1319	-60.65	-40.67	-13.00	27.67	19.98	Vertical	PASS

Plot for High Channel



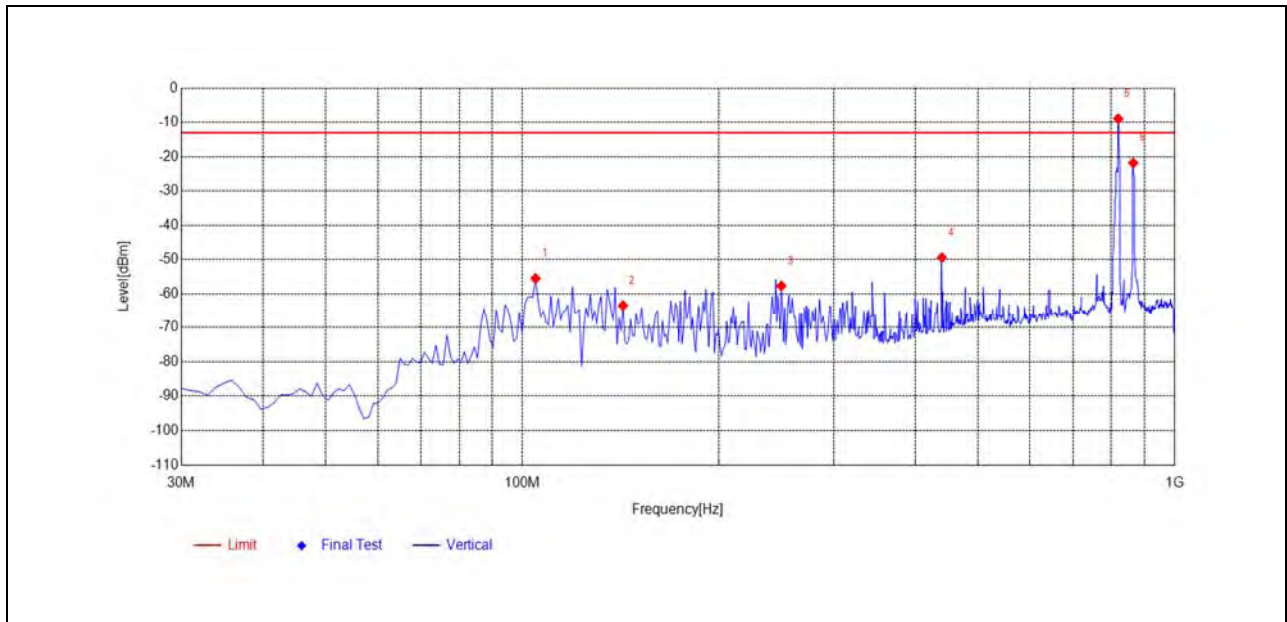
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
169.8198	-57.62	-69.68	-13.00	56.68	-12.06	Horizontal	PASS
243.6136	-61.33	-65.40	-13.00	52.40	-4.07	Horizontal	PASS
360.1301	-57.65	-63.54	-13.00	50.54	-5.89	Horizontal	PASS
439.7498	-61.53	-63.59	-13.00	50.59	-2.06	Horizontal	PASS
819.3994	-14.79	-9.88	-13.00	-3.12	4.91	Horizontal	NA
865.0350	-46.40	-42.69	-13.00	29.69	3.71	Horizontal	NA



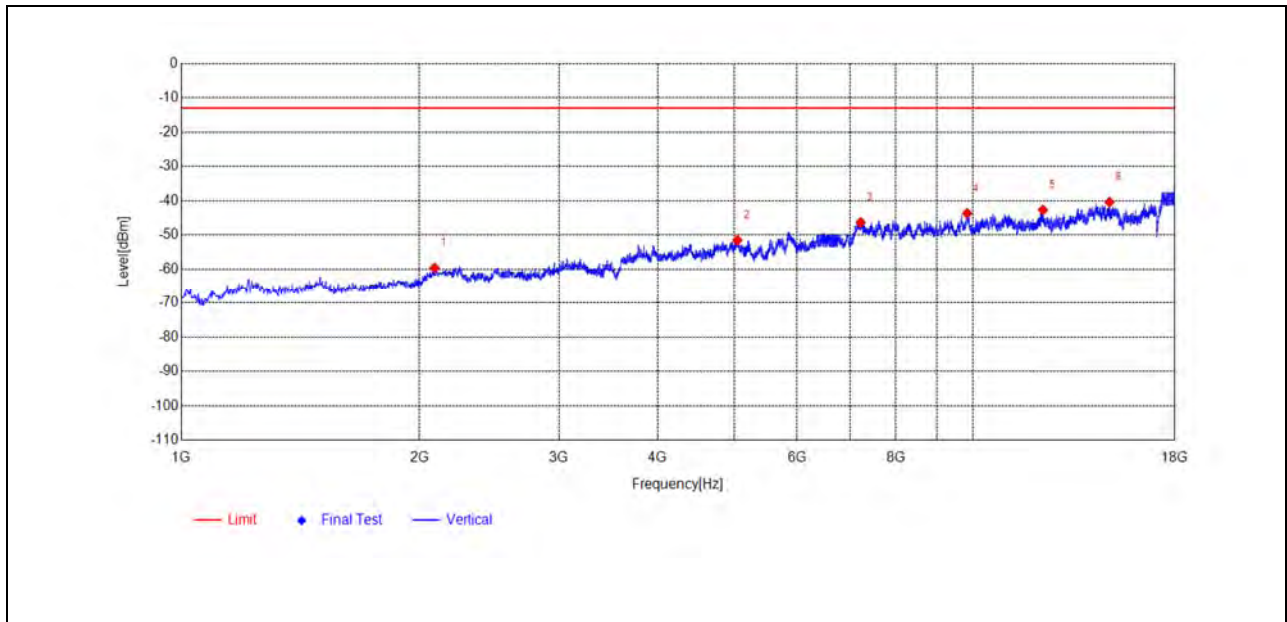
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2125.5126	-50.49	-59.13	-13.00	46.13	-8.64	Horizontal	PASS
5056.6057	-52.30	-51.19	-13.00	38.19	1.11	Horizontal	PASS
6593.5594	-54.33	-47.21	-13.00	34.21	7.12	Horizontal	PASS
9840.8841	-57.71	-42.79	-13.00	29.79	14.92	Horizontal	PASS
13598.2598	-59.44	-41.05	-13.00	28.05	18.39	Horizontal	PASS
15286.5287	-61.28	-42.28	-13.00	29.28	19.00	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
104.7648	-41.68	-55.51	-13.00	42.51	-13.83	Vertical	PASS
142.6326	-52.43	-63.43	-13.00	50.43	-11.00	Vertical	PASS
249.4394	-48.50	-57.67	-13.00	44.67	-9.17	Vertical	PASS
439.7498	-47.06	-49.44	-13.00	36.44	-2.38	Vertical	PASS
819.3994	-14.10	-8.96	-13.00	-4.04	5.14	Vertical	NA
864.0641	-25.87	-21.83	-13.00	8.83	4.04	Vertical	NA



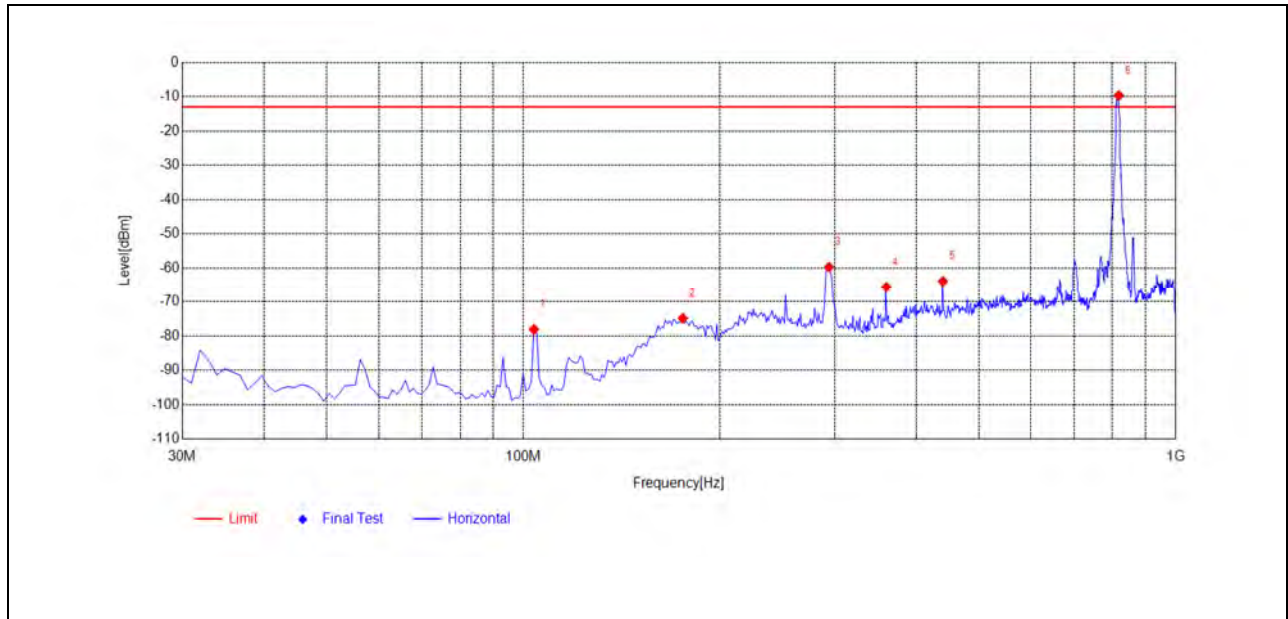
(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2089.8090	-50.58	-59.61	-13.00	46.61	-9.03	Vertical	PASS
5044.7045	-52.42	-51.51	-13.00	38.51	0.91	Vertical	PASS
7219.2219	-54.81	-46.32	-13.00	33.32	8.49	Vertical	PASS
9840.8841	-58.66	-43.69	-13.00	30.69	14.97	Vertical	PASS
12268.7269	-58.88	-42.70	-13.00	29.70	16.18	Vertical	PASS
14890.3890	-59.26	-40.43	-13.00	27.43	18.83	Vertical	PASS



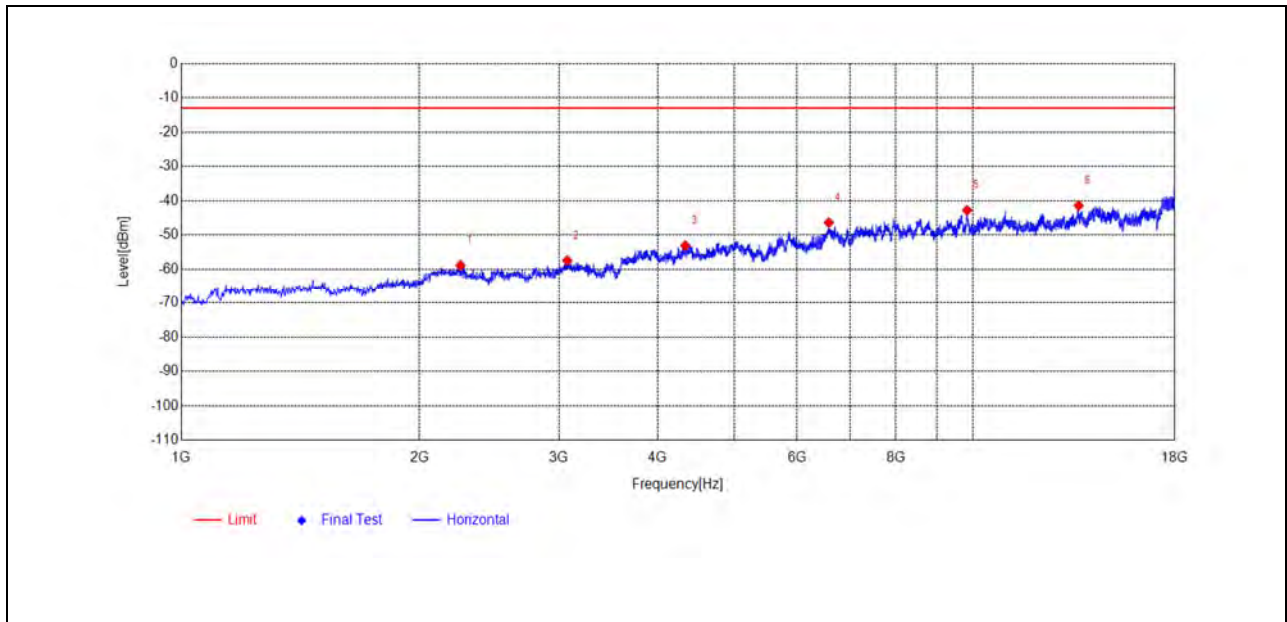
LTE Band 26

Plot for Low Channel



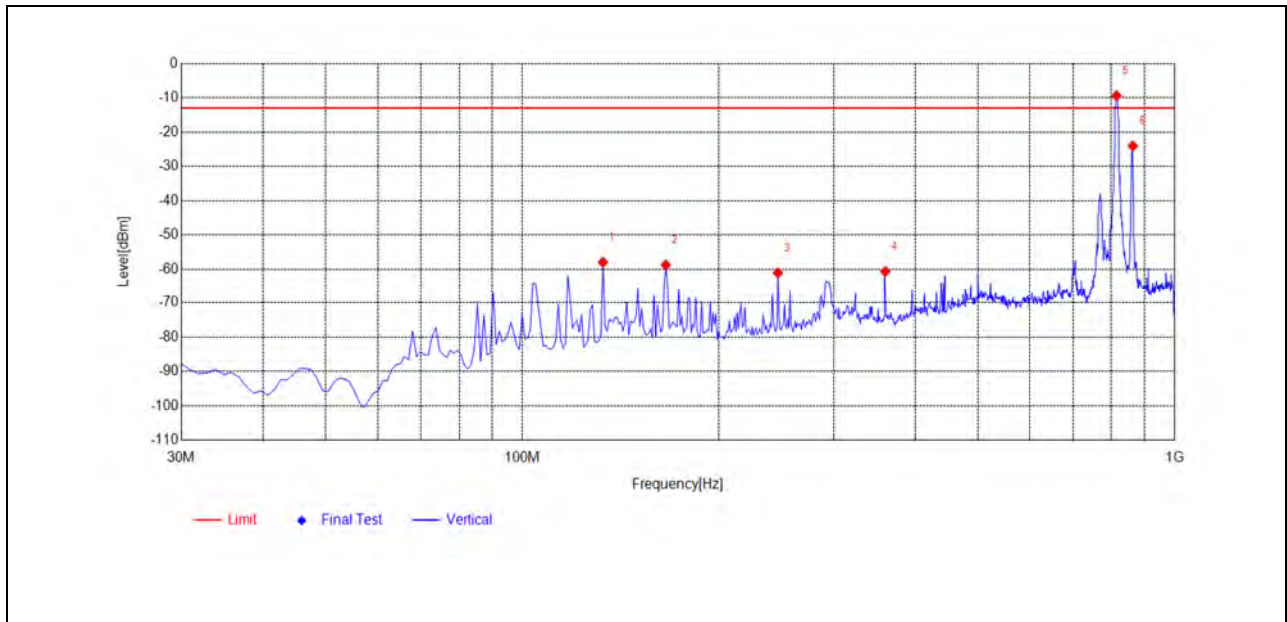
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-53.62	-78.08	-13.00	65.08	-24.46	Horizontal	PASS
175.6456	-62.89	-74.85	-13.00	61.85	-11.96	Horizontal	PASS
294.1041	-52.41	-59.70	-13.00	46.70	-7.29	Horizontal	PASS
360.1301	-59.73	-65.62	-13.00	52.62	-5.89	Horizontal	PASS
439.7498	-61.83	-63.89	-13.00	50.89	-2.06	Horizontal	PASS
818.4284	-14.67	-9.66	-13.00	-3.34	5.01	Horizontal	NA



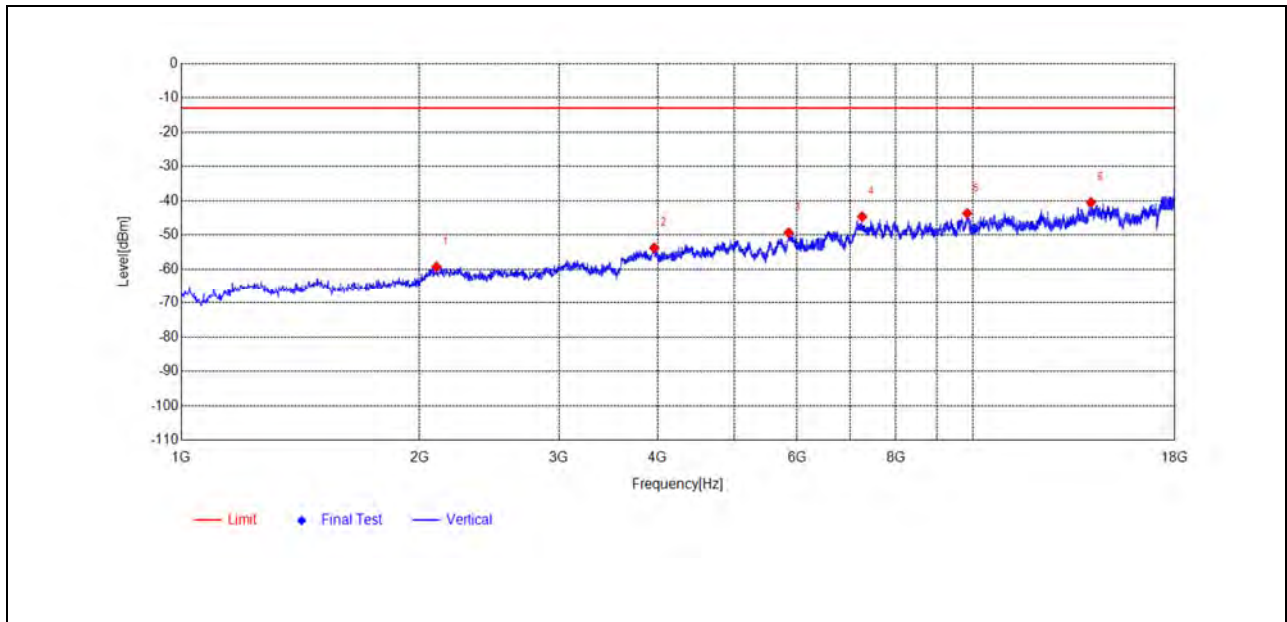
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2253.0253	-50.35	-58.87	-13.00	45.87	-8.52	Horizontal	PASS
3074.2074	-50.88	-57.44	-13.00	44.44	-6.56	Horizontal	PASS
4334.0334	-50.58	-53.09	-13.00	40.09	-2.51	Horizontal	PASS
6579.9580	-53.11	-46.39	-13.00	33.39	6.72	Horizontal	PASS
9840.8841	-57.71	-42.79	-13.00	29.79	14.92	Horizontal	PASS
13615.2615	-59.00	-41.41	-13.00	28.41	17.59	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
132.9229	-47.31	-57.94	-13.00	44.94	-10.63	Vertical	PASS
165.9359	-47.68	-58.73	-13.00	45.73	-11.05	Vertical	PASS
246.5265	-52.23	-61.05	-13.00	48.05	-8.82	Vertical	PASS
360.1301	-55.35	-60.65	-13.00	47.65	-5.30	Vertical	PASS
814.5445	-14.72	-9.39	-13.00	-3.61	5.33	Vertical	NA
863.0931	-27.87	-24.05	-13.00	11.05	3.82	Vertical	NA

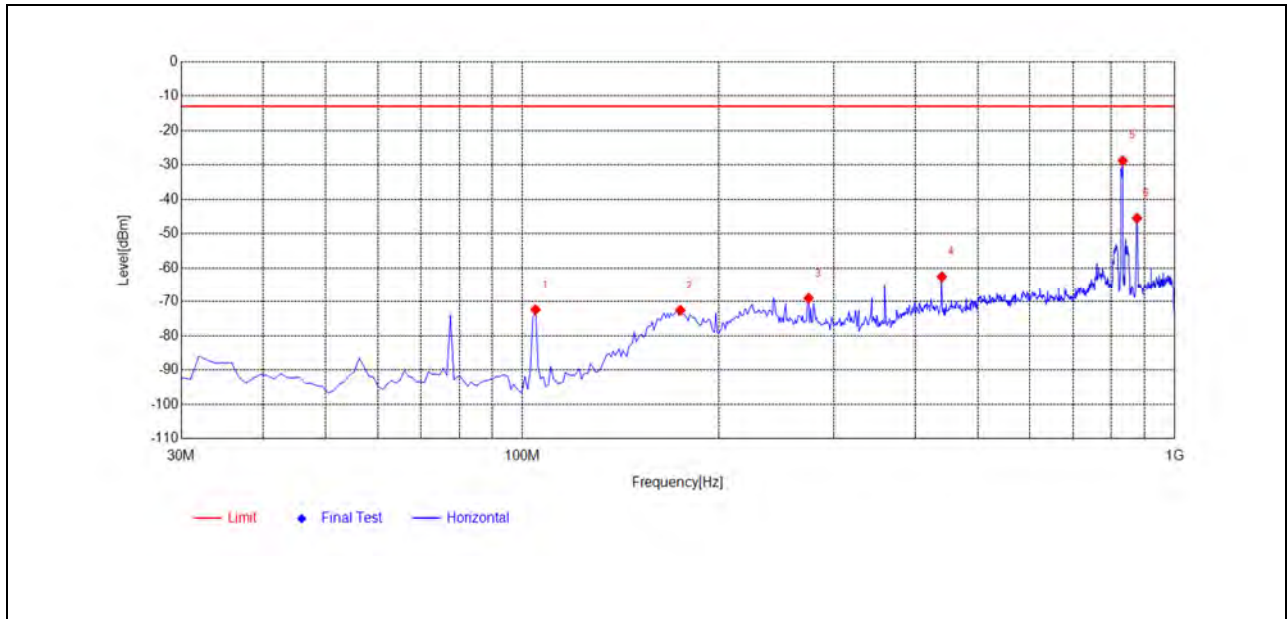


(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2101.7102	-50.45	-59.32	-13.00	46.32	-8.87	Vertical	PASS
3959.9960	-50.83	-53.76	-13.00	40.76	-2.93	Vertical	PASS
5855.6856	-52.90	-49.32	-13.00	36.32	3.58	Vertical	PASS
7251.5252	-53.41	-44.66	-13.00	31.66	8.75	Vertical	PASS
9842.5843	-58.76	-43.68	-13.00	30.68	15.08	Vertical	PASS
14110.0110	-59.27	-40.52	-13.00	27.52	18.75	Vertical	PASS

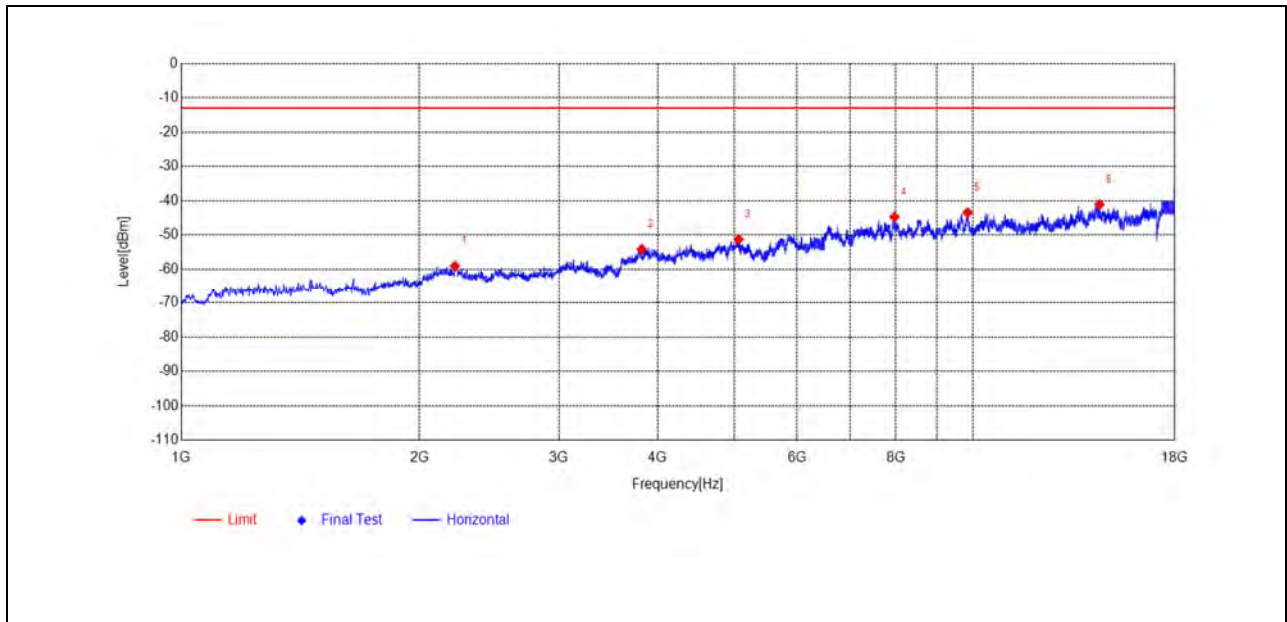


Plot for Mid Channel



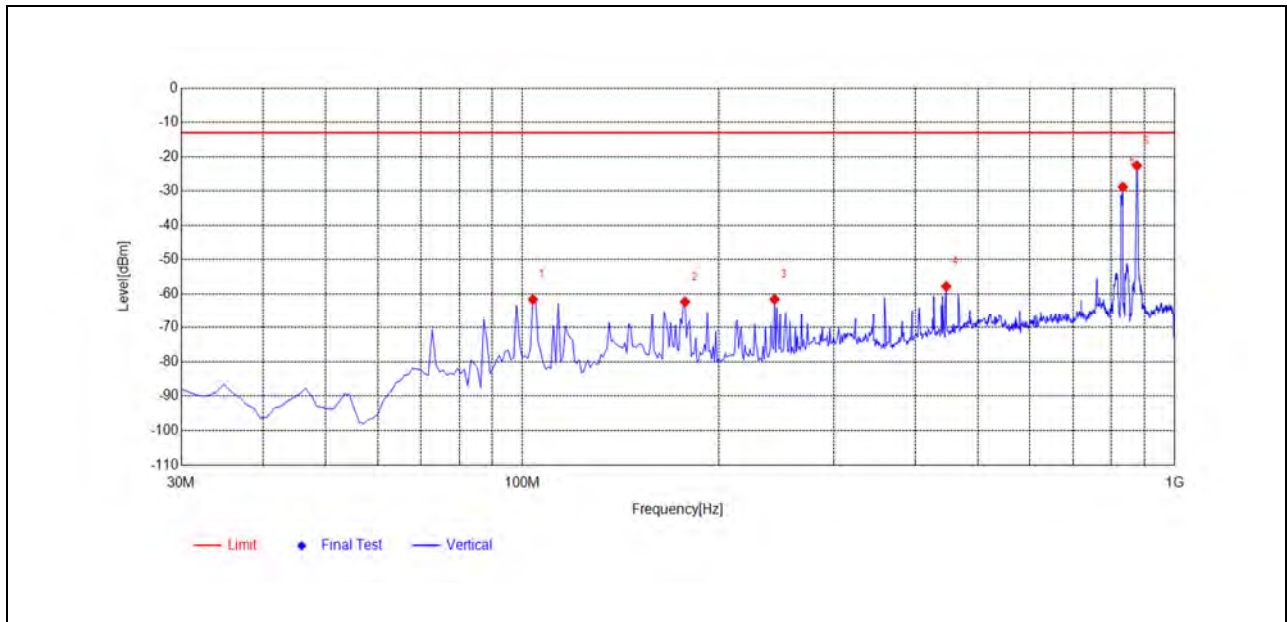
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
104.7648	-47.67	-72.37	-13.00	59.37	-24.70	Horizontal	PASS
174.6747	-60.50	-72.52	-13.00	59.52	-12.02	Horizontal	PASS
274.6847	-62.68	-68.96	-13.00	55.96	-6.28	Horizontal	PASS
439.7498	-60.44	-62.50	-13.00	49.50	-2.06	Horizontal	PASS
832.9930	-33.29	-28.81	-13.00	15.81	4.48	Horizontal	PASS
875.7157	-49.41	-45.49	-13.00	32.49	3.92	Horizontal	PASS



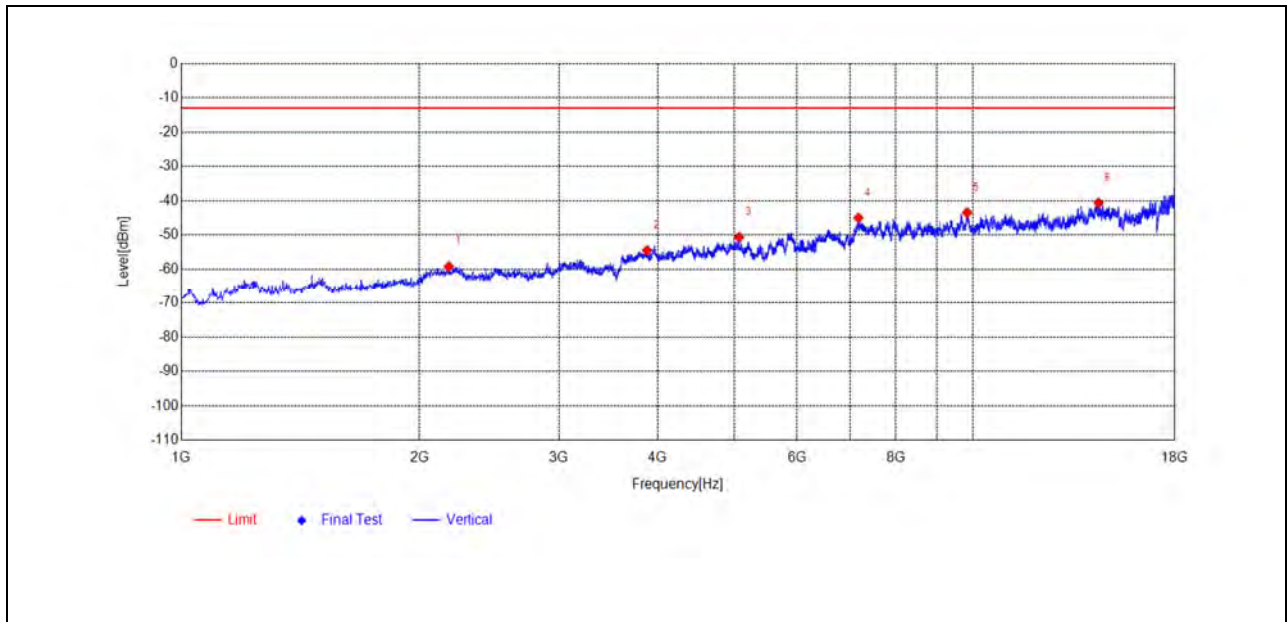
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2217.3217	-50.31	-59.08	-13.00	46.08	-8.77	Horizontal	PASS
3818.8819	-50.18	-54.14	-13.00	41.14	-3.96	Horizontal	PASS
5061.7062	-52.20	-51.24	-13.00	38.24	0.96	Horizontal	PASS
7965.5966	-54.52	-44.72	-13.00	31.72	9.80	Horizontal	PASS
9854.4854	-58.90	-43.50	-13.00	30.50	15.40	Horizontal	PASS
14463.6464	-59.38	-41.10	-13.00	28.10	18.28	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

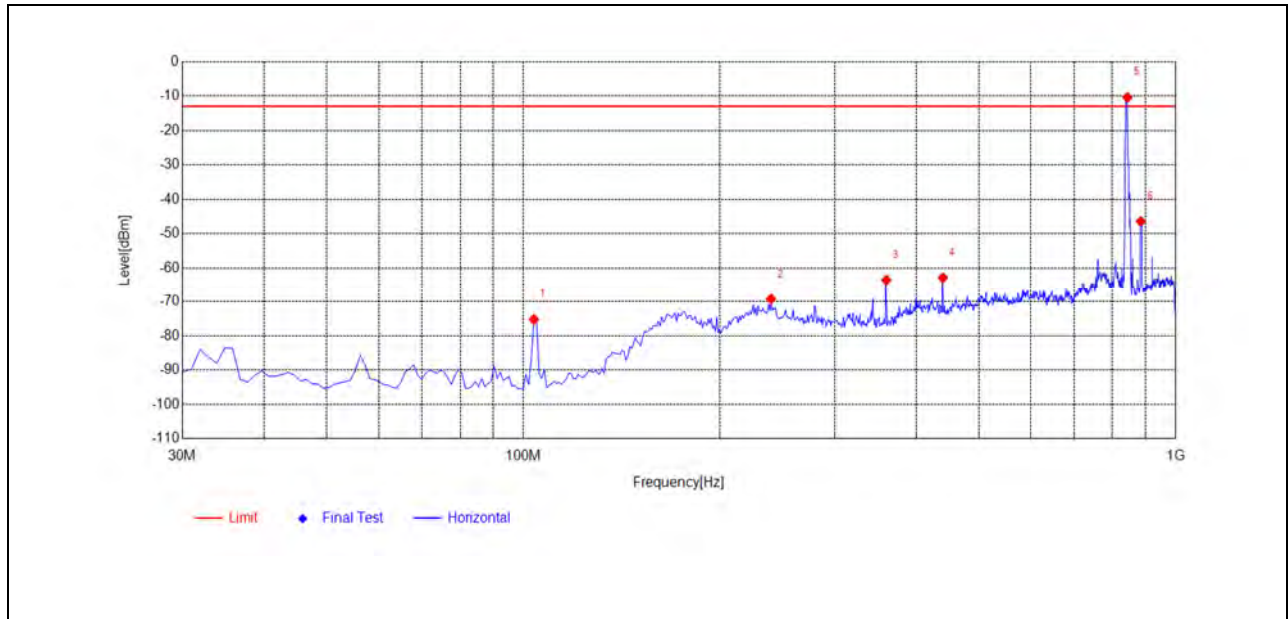
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-47.97	-61.65	-13.00	48.65	-13.68	Vertical	PASS
177.5876	-51.29	-62.35	-13.00	49.35	-11.06	Vertical	PASS
243.6136	-52.82	-61.58	-13.00	48.58	-8.76	Vertical	PASS
446.5465	-55.38	-57.84	-13.00	44.84	-2.46	Vertical	PASS
832.9930	-33.80	-28.84	-13.00	15.84	4.96	Vertical	PASS
875.7157	-27.96	-22.64	-13.00	9.64	5.32	Vertical	PASS



(Antenna Vertical, 1GHz to 18GHz)

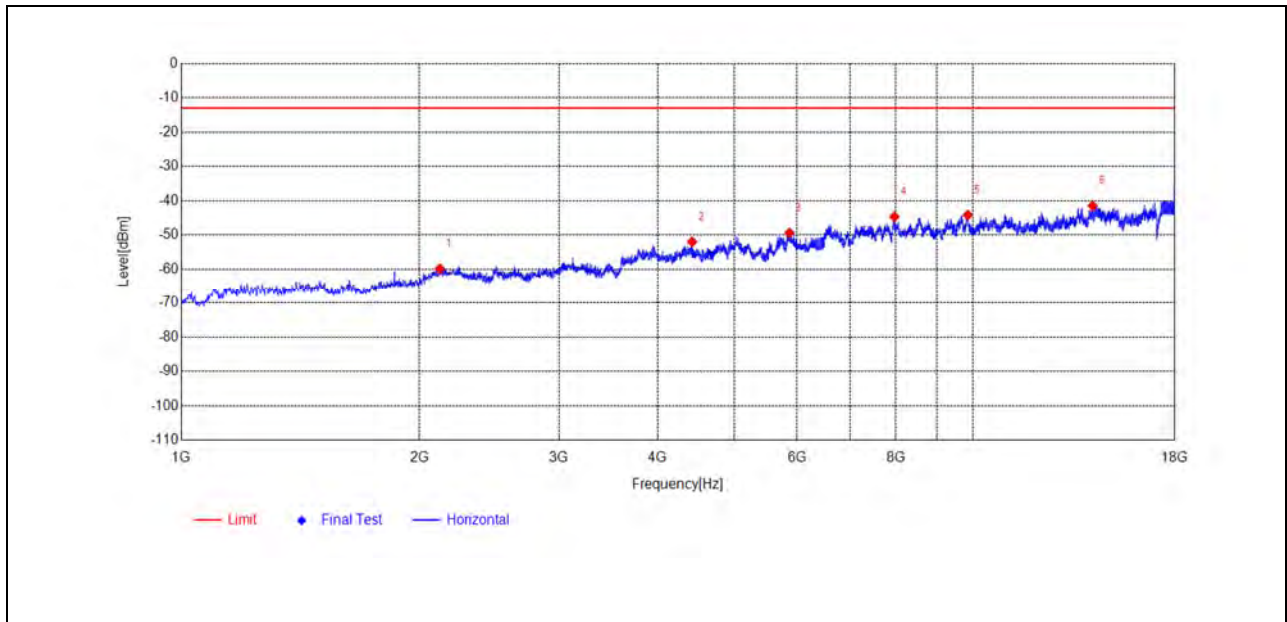
Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2178.2178	-50.30	-59.21	-13.00	46.21	-8.91	Vertical	PASS
3878.3878	-49.90	-54.50	-13.00	41.50	-4.60	Vertical	PASS
5068.5069	-51.18	-50.64	-13.00	37.64	0.54	Vertical	PASS
7173.3173	-53.79	-45.05	-13.00	32.05	8.74	Vertical	PASS
9842.5843	-58.55	-43.47	-13.00	30.47	15.08	Vertical	PASS
14426.2426	-58.69	-40.65	-13.00	27.65	18.04	Vertical	PASS

Plot for High Channel



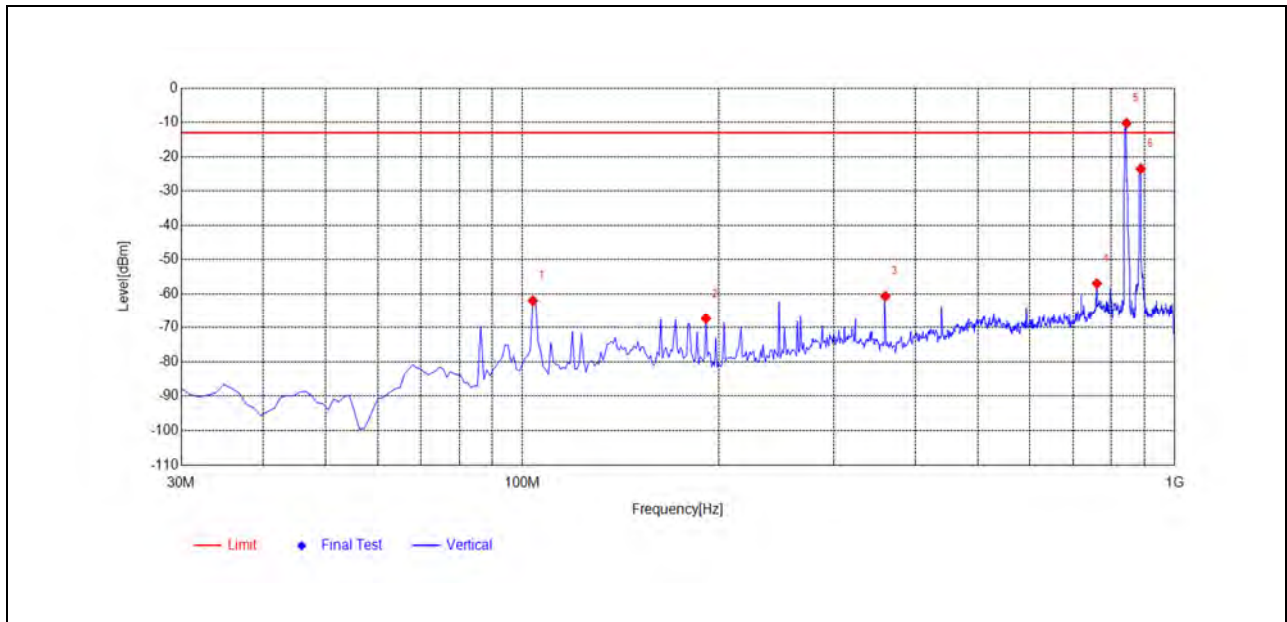
(Antenna Horizontal, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-50.76	-75.22	-13.00	62.22	-24.46	Horizontal	PASS
239.7297	-66.03	-69.17	-13.00	56.17	-3.14	Horizontal	PASS
360.1301	-57.59	-63.48	-13.00	50.48	-5.89	Horizontal	PASS
439.7498	-60.76	-62.82	-13.00	49.82	-2.06	Horizontal	PASS
843.6737	-14.42	-10.42	-13.00	-2.58	4.00	Horizontal	NA
884.4545	-50.99	-46.40	-13.00	33.40	4.59	Horizontal	PASS



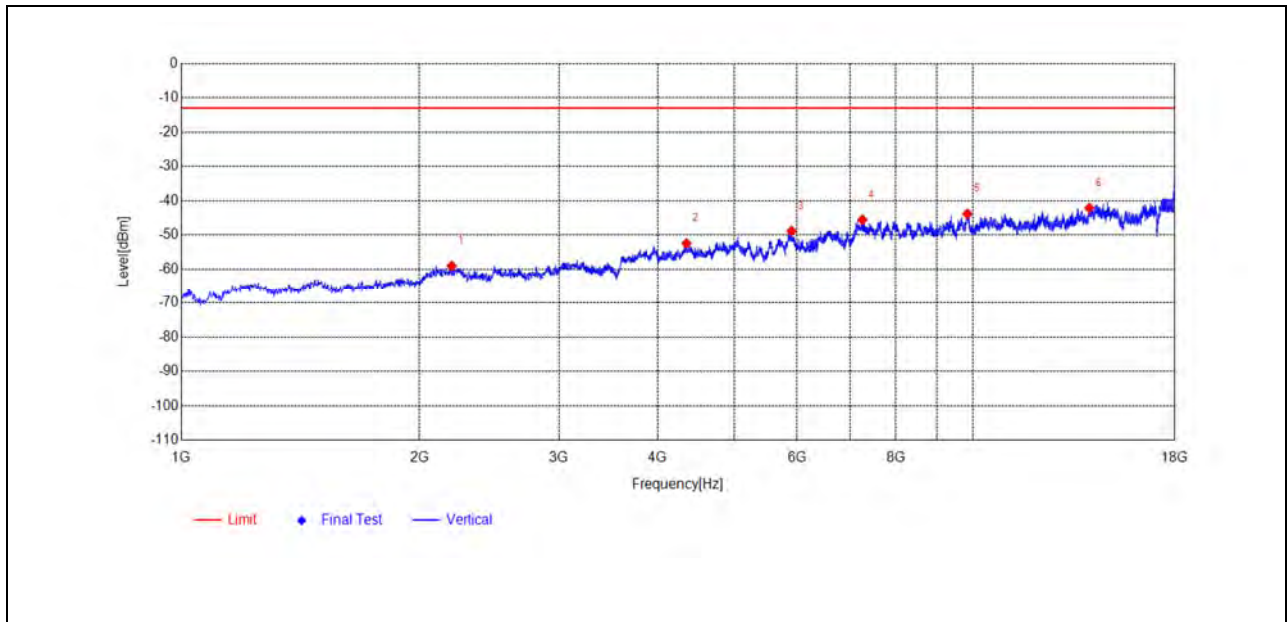
(Antenna Horizontal, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2122.1122	-51.19	-59.85	-13.00	46.85	-8.66	Horizontal	PASS
4420.7421	-49.63	-52.00	-13.00	39.00	-2.37	Horizontal	PASS
5869.2869	-52.88	-49.39	-13.00	36.39	3.49	Horizontal	PASS
7963.8964	-54.52	-44.66	-13.00	31.66	9.86	Horizontal	PASS
9861.2861	-59.23	-44.17	-13.00	31.17	15.06	Horizontal	PASS
14179.7180	-59.73	-41.50	-13.00	28.50	18.23	Horizontal	PASS



(Antenna Vertical, 30MHz to 1GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
103.7938	-48.31	-61.99	-13.00	48.99	-13.68	Vertical	PASS
191.1812	-57.72	-67.39	-13.00	54.39	-9.67	Vertical	PASS
360.1301	-55.39	-60.69	-13.00	47.69	-5.30	Vertical	PASS
760.1702	-64.35	-56.97	-13.00	43.97	7.38	Vertical	PASS
843.6737	-14.32	-10.24	-13.00	-2.76	4.08	Vertical	NA
887.3674	-29.49	-23.56	-13.00	10.56	5.93	Vertical	NA



(Antenna Vertical, 1GHz to 18GHz)

Freq. [MHz]	Reading [dBm]	Level [dBm]	Limit [dBm]	Margin [dB]	Factor [dB]	Polarity	Verdict
2196.9197	-50.07	-59.04	-13.00	46.04	-8.97	Vertical	PASS
4349.3349	-50.68	-52.47	-13.00	39.47	-1.79	Vertical	PASS
5904.9905	-52.63	-48.85	-13.00	35.85	3.78	Vertical	PASS
7256.6257	-54.27	-45.57	-13.00	32.57	8.70	Vertical	PASS
9849.3849	-59.38	-43.85	-13.00	30.85	15.53	Vertical	PASS
14045.4045	-61.19	-42.16	-13.00	29.16	19.03	Vertical	PASS



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:	Shenzhen Morlab Communications Technology Co., Ltd.
Laboratory Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China
Telephone:	+86 755 36698555
Facsimile:	+86 755 36698525

2. Identification of the Responsible Testing Location

Name:	Shenzhen Morlab Communications Technology Co., Ltd.
Address:	FL.3, Building A, FeiYang Science Park, No.8 LongChang Road, Block 67, BaoAn District, ShenZhen, GuangDong Province, P. R. China

3. Facilities and Accreditations

All measurement facilities used to collect the measurement data are located at FL.3, Building A, FeiYang Science Park, Block 67, BaoAn District, Shenzhen, 518101 P. R. China. The test site is constructed in conformance with the requirements of ANSI C63.10-2013 and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.



REPORT No.: SZ25080397W01

4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
EXA Signal Analyzer	MY51511149	N9020A	Agilent	2024.06.19	2025.06.18
Communication Test Station	6200995016	MT8820C	Anritsu	2025.09.03	2026.09.02
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2025.09.03	2026.09.02

4.2 List of Software Used

Description	Manufacturer	Software Version
MOE-2023E Test System	MORLAB	V7.99
JS36-RSE	Tonscend	5.0.0

**4.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2025.09.03	2026.09.02
Signal Analyzer	MY56060145	N9020A	Agilent	2025.05.13	2026.05.12
Test Antenna – Loop	FMZB 1519	1519-022	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna - Bi-Log	9163-274	VULB 9163	Schwarzbeck	2025.06.28	2026.06.27
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2025.05.16	2026.05.15
Test Antenna - Horn	BBHA9170	BBHA9170#773	Schwarzbeck	2025.06.20	2026.06.19
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2025.05.13	2026.05.12
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	2025.09.03	2026.09.02
RF Coaxial Cable (DC-18GHz)	22120181	QA500-18-NN-5	Qualwave	2025.09.03	2026.09.02
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2025.05.13	2026.05.12
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2025.05.13	2026.05.12
Notch Filter	N/A	WRCGV-LTE 18&26	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

END OF REPORT
