TEST REPORT

APPLICANT	:	Securus Technologies, LLC
PRODUCT NAME	:	Tablet
MODEL NAME	:	EVOTAB
BRAND NAME	:	SECURUS
FCC ID	:	2AZJPEVOTAB
STANDARD(S)	:	47 CFR Part 2 47 CFR Part 90, Subpart R&S
RECEIPT DATE	:	2025-05-12
TEST DATE	:	2025-05-16 to 2025-06-03
ISSUE DATE	:	2025-06-19

Edited by: Peng Mi (Rapporteur)

Approved by: Shen Junsheng (Supervisor)

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Change History		
Version	Date	Reason for change
1.0	2025-06-19	First edition

1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Securus Technologies, LLC
Applicant Address:	5360 Legacy Drive, Suite 300, Plano, Texas, United States, 75024
Manufacturer:	Rhino Mobility LLC
Manufacturer Address:	8 The Green, Suite A, Dover, Delaware,19901, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Tablet	
Sample No.:	30#, 28#, 14#	
Hardware Version:	T8006_MB_V1.0	
Software Version:	T81R(001)_20250530	
Modulation Type:	QPSK, 16QAM, 64QAM	
Operation Band:	Band 14 / 18 / 26	
Frequency Range:	LTE Band 14	Tx: 788MHz–798MHz
		Rx: 758MHz–768MHz
	LTE Band 18	Tx: 815MHz–824MHz
		Rx: 860MHz–869MHz
	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 14	5MHz, 10MHz
	LTE Band 18	5MHz
	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 14	0.78dBi
	LTE Band 18	1.05dBi
	LTE Band 26	1.37dBi

Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	ST-E6
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	3.87V
	Charge Limit:	4.45V
	Manufacturer:	PHENIX NEW ENERGY (HUIZHOU) CO., LTD.
	AC Adapter	
	Brand Name:	N/A
	Model No.:	DCT18W090200US-T0
	Serial No.:	N/A
	Rated Output:	9V⎓2A
	Rated Input:	100-240V~50/60Hz, 0.7A
	Manufacturer:	Zhuzhou Dachuan Electronic Technology Co.,Ltd

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.

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

LTE Band 14	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.171	0.135	0.134	8M96G7D	8M95W7D	8M95W7D
5	0.169	0.136	0.138	4M48G7D	4M48W7D	4M49W7D
LTE Band 18	**Maximum E.R.P./E.I.R.P. (W)**			**Emission Designator (99%OBW)**		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5	0.140	0.114	0.110	4M49G7D	4M49W7D	4M50W7D
LTE Band 26	**Maximum E.R.P./E.I.R.P. (W)**			**Emission Designator (99%OBW)**		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
10	0.167	0.153	0.146	8M99G7D	8M95W7D	8M98W7D
5	0.179	0.149	0.138	4M48G7D	4M49W7D	4M48W7D
3	0.182	0.152	0.147	2M72G7D	2M71W7D	2M73W7D
1.4	0.185	0.156	0.160	1M10G7D	1M10W7D	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, 90.541(d) 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	May 16, 2025	Shen Biaohong Liu Huiyan	PASS$_{Note3}$	/
2.1049	Occupied Bandwidth	May 27, 2025	Liu Huiyan	PASS	/
2.1055, 90.543	Frequency Stability	May 27, 2025	Liu Huiyan	PASS	/
2.1051, 90.691(a) 90.543(f)	Conducted Spurious Emissions	May 27, 2025	Liu Huiyan	PASS	/
2.1051, 90.691(a) 90.543(e)	Band Edge	May 27, 2025	Liu Huiyan	PASS	/
2.1053, 90.691(a) 90.543(f)	Radiated Spurious Emissions	May 26, 2024 to Jun. 03, 2025	Li Hanbin	PASS	/

Note 1: The tests were performed according to the method of measurements prescribed in KDB971168 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.

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 90R&S Requirements

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

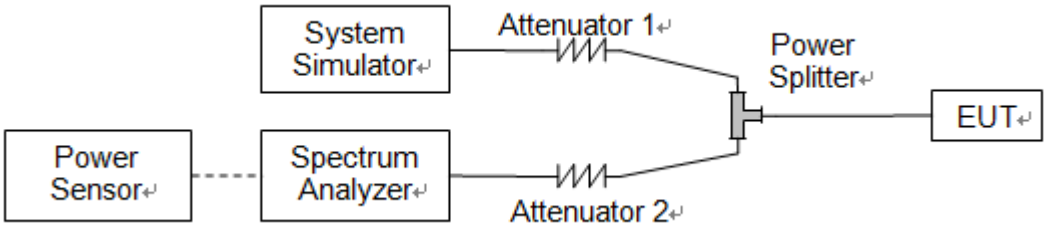
2.1.1. Requirement

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 90.541(d)for LTE Band 14, the transmitting power of a portable (hand-held) unit must not exceed 3 watts ERP.

According to FCC section 90.635(b) for LTE Band 18/26, 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 (dBm) = Conducted Output Power (dBm) + Antenna Gain (dBi)
ERP (dBm) = EIPR (dBm) - 2.15

2.1.4. Result

Conducted Output Power

LTE Band 14						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	23330	/
Frequency (MHz)				/	793	/
10	QPSK	1	0	/	23.69	/
10	QPSK	1	25	/	23.54	/
10	QPSK	1	49	/	23.53	/
10	QPSK	25	0	/	22.71	/
10	QPSK	25	12	/	22.55	/
10	QPSK	25	25	/	22.61	/
10	QPSK	50	0	/	22.60	/
10	16QAM	1	0	/	22.68	/
10	16QAM	1	25	/	22.59	/
10	16QAM	1	49	/	22.54	/
10	16QAM	25	0	/	21.72	/
10	16QAM	25	12	/	21.58	/
10	16QAM	25	25	/	21.63	/
10	16QAM	50	0	/	21.62	/
10	64QAM	1	0	/	22.65	/
10	64QAM	1	25	/	22.54	/
10	64QAM	1	49	/	22.57	/
10	64QAM	25	0	/	21.77	/
10	64QAM	25	12	/	21.71	/
10	64QAM	25	25	/	21.63	/
10	64QAM	50	0	/	21.70	/

LTE Band 14						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				23305	23330	23355
Frequency (MHz)				790.5	793	795.5
5	QPSK	1	0	23.58	23.64	23.57
5	QPSK	1	12	23.52	23.60	23.49
5	QPSK	1	24	23.50	23.57	23.51
5	QPSK	12	0	22.51	22.61	22.62
5	QPSK	12	7	22.38	22.58	22.64
5	QPSK	12	13	22.46	22.43	22.69
5	QPSK	25	0	22.45	22.59	22.51
5	16QAM	1	0	22.69	22.69	22.55
5	16QAM	1	12	22.55	22.69	22.60
5	16QAM	1	24	22.63	22.64	22.59
5	16QAM	12	0	21.63	21.56	21.70
5	16QAM	12	7	21.67	21.49	21.52
5	16QAM	12	13	21.47	21.73	21.49
5	16QAM	25	0	21.56	21.70	21.58
5	64QAM	1	0	22.56	22.57	22.54
5	64QAM	1	12	22.73	22.76	22.41
5	64QAM	1	24	22.59	22.54	22.47
5	64QAM	12	0	21.75	21.69	21.74
5	64QAM	12	7	21.48	21.56	21.58
5	64QAM	12	13	21.57	21.63	21.59
5	64QAM	25	0	21.73	21.68	21.56

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	22.34	22.06	22.38
5	QPSK	1	12	22.33	22.25	22.56
5	QPSK	1	24	22.19	22.35	22.43
5	QPSK	12	0	21.24	21.30	21.21
5	QPSK	12	7	21.12	21.35	21.35
5	QPSK	12	13	21.38	21.17	21.25
5	QPSK	25	0	21.19	21.12	21.40
5	16QAM	1	0	21.67	21.32	21.43
5	16QAM	1	12	21.62	21.31	21.58
5	16QAM	1	24	21.51	21.55	21.41
5	16QAM	12	0	20.39	20.35	20.41
5	16QAM	12	7	20.37	20.40	20.33
5	16QAM	12	13	20.45	20.31	20.37
5	16QAM	25	0	20.38	20.16	20.46
5	64QAM	1	0	21.24	21.10	21.03
5	64QAM	1	12	21.46	21.27	21.30
5	64QAM	1	24	21.52	21.42	21.37
5	64QAM	12	0	20.32	20.22	20.30
5	64QAM	12	7	20.36	20.41	20.48
5	64QAM	12	13	20.17	20.20	20.36
5	64QAM	25	0	20.40	20.32	20.34

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	/	23.02	/
10	QPSK	1	25	/	22.96	/
10	QPSK	1	49	/	23.02	/
10	QPSK	25	0	/	22.20	/
10	QPSK	25	12	/	21.81	/
10	QPSK	25	25	/	22.20	/
10	QPSK	50	0	/	21.76	/
10	16QAM	1	0	/	22.32	/
10	16QAM	1	25	/	22.62	/
10	16QAM	1	49	/	22.57	/
10	16QAM	25	0	/	21.21	/
10	16QAM	25	12	/	21.54	/
10	16QAM	25	25	/	21.51	/
10	16QAM	50	0	/	21.11	/
10	64QAM	1	0	/	22.43	/
10	64QAM	1	25	/	22.05	/
10	64QAM	1	49	/	22.12	/
10	64QAM	25	0	/	21.22	/
10	64QAM	25	12	/	21.31	/
10	64QAM	25	25	/	21.42	/
10	64QAM	50	0	/	21.39	/

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	23.32	23.22	23.16
5	QPSK	1	12	23.13	23.24	23.21
5	QPSK	1	24	23.06	23.14	22.81
5	QPSK	12	0	22.15	21.99	22.21
5	QPSK	12	7	22.01	22.13	22.03
5	QPSK	12	13	22.01	21.98	22.32
5	QPSK	25	0	22.21	22.23	21.47
5	16QAM	1	0	22.20	22.33	22.16
5	16QAM	1	12	21.95	22.41	22.39
5	16QAM	1	24	22.23	22.52	19.87
5	16QAM	12	0	21.13	20.82	21.11
5	16QAM	12	7	21.23	21.52	21.22
5	16QAM	12	13	21.15	21.57	21.20
5	16QAM	25	0	21.16	21.02	21.33
5	64QAM	1	0	21.85	21.88	21.68
5	64QAM	1	12	22.19	21.63	21.44
5	64QAM	1	24	21.33	21.79	21.80
5	64QAM	12	0	20.48	19.28	21.34
5	64QAM	12	7	21.36	21.39	21.62
5	64QAM	12	13	21.12	19.61	21.38
5	64QAM	25	0	20.93	21.50	21.47

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	22.67	22.92	23.09
3	QPSK	1	8	23.18	23.39	23.39
3	QPSK	1	14	23.04	23.22	23.38
3	QPSK	8	0	22.18	22.21	22.13
3	QPSK	8	4	22.05	22.07	22.35
3	QPSK	8	7	22.15	22.19	22.40
3	QPSK	15	0	22.22	22.08	22.25
3	16QAM	1	0	22.52	22.25	20.93
3	16QAM	1	8	22.61	22.09	22.32
3	16QAM	1	14	22.19	22.37	22.24
3	16QAM	8	0	21.60	21.49	21.53
3	16QAM	8	4	21.55	21.45	21.43
3	16QAM	8	7	22.17	21.25	21.36
3	16QAM	15	0	20.12	21.28	21.18
3	64QAM	1	0	21.47	22.10	21.74
3	64QAM	1	8	22.01	22.45	21.97
3	64QAM	1	14	22.40	22.14	22.09
3	64QAM	8	0	21.29	21.32	21.27
3	64QAM	8	4	21.37	21.27	21.39
3	64QAM	8	7	20.87	21.34	21.52
3	64QAM	15	0	20.36	21.61	21.56

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	23.23	23.19	22.81
1.4	QPSK	1	3	23.09	23.46	23.42
1.4	QPSK	1	5	23.28	23.15	22.98
1.4	QPSK	3	0	23.01	23.08	22.75
1.4	QPSK	3	1	22.81	23.40	23.06
1.4	QPSK	3	3	23.13	22.78	23.14
1.4	QPSK	6	0	21.87	21.77	22.17
1.4	16QAM	1	0	22.31	22.44	22.05
1.4	16QAM	1	3	22.56	22.47	22.54
1.4	16QAM	1	5	22.71	21.56	22.61
1.4	16QAM	3	0	21.95	22.37	22.19
1.4	16QAM	3	1	22.05	22.07	22.21
1.4	16QAM	3	3	22.43	22.21	22.20
1.4	16QAM	6	0	19.52	21.22	21.11
1.4	64QAM	1	0	21.38	22.29	22.28
1.4	64QAM	1	3	22.43	22.43	22.15
1.4	64QAM	1	5	22.23	22.47	22.15
1.4	64QAM	3	0	22.33	22.02	22.61
1.4	64QAM	3	1	22.16	22.24	22.33
1.4	64QAM	3	3	22.55	22.55	22.83
1.4	64QAM	6	0	21.09	21.41	21.42

Effective Radiated Power and Effective Isotropic Radiated Power

LTE Band 14				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				/		23330		/	
Frequency (MHz)				/		793		/	
				/	/	dBm	W	/	/
10	QPSK	1	0	/	/	22.32	0.171	/	/
10	QPSK	1	25	/	/	22.17	0.165	/	/
10	QPSK	1	49	/	/	22.16	0.164	/	/
10	QPSK	25	0	/	/	21.34	0.136	/	/
10	QPSK	25	12	/	/	21.18	0.131	/	/
10	QPSK	25	25	/	/	21.24	0.133	/	/
10	QPSK	50	0	/	/	21.23	0.133	/	/
10	16QAM	1	0	/	/	21.31	0.135	/	/
10	16QAM	1	25	/	/	21.22	0.132	/	/
10	16QAM	1	49	/	/	21.17	0.131	/	/
10	16QAM	25	0	/	/	20.35	0.108	/	/
10	16QAM	25	12	/	/	20.21	0.105	/	/
10	16QAM	25	25	/	/	20.26	0.106	/	/
10	16QAM	50	0	/	/	20.25	0.106	/	/
10	64QAM	1	0	/	/	21.28	0.134	/	/
10	64QAM	1	25	/	/	21.17	0.131	/	/
10	64QAM	1	49	/	/	21.20	0.132	/	/
10	64QAM	25	0	/	/	20.40	0.110	/	/
10	64QAM	25	12	/	/	20.34	0.108	/	/
10	64QAM	25	25	/	/	20.26	0.106	/	/
10	64QAM	50	0	/	/	20.33	0.108	/	/

LTE Band 14				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				23305		23330		23355	
Frequency (MHz)				790.5		793		795.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	22.21	0.166	22.27	0.169	22.20	0.166
5	QPSK	1	12	22.15	0.164	22.23	0.167	22.12	0.163
5	QPSK	1	24	22.13	0.163	22.20	0.166	22.14	0.164
5	QPSK	12	0	21.14	0.130	21.24	0.133	21.25	0.133
5	QPSK	12	7	21.01	0.126	21.21	0.132	21.27	0.134
5	QPSK	12	13	21.09	0.129	21.06	0.128	21.32	0.136
5	QPSK	25	0	21.08	0.128	21.22	0.132	21.14	0.130
5	16QAM	1	0	21.32	0.136	21.32	0.136	21.18	0.131
5	16QAM	1	12	21.18	0.131	21.32	0.136	21.23	0.133
5	16QAM	1	24	21.26	0.134	21.27	0.134	21.22	0.132
5	16QAM	12	0	20.26	0.106	20.19	0.104	20.33	0.108
5	16QAM	12	7	20.30	0.107	20.12	0.103	20.15	0.104
5	16QAM	12	13	20.10	0.102	20.36	0.109	20.12	0.103
5	16QAM	25	0	20.19	0.104	20.33	0.108	20.21	0.105
5	64QAM	1	0	21.19	0.132	21.20	0.132	21.17	0.131
5	64QAM	1	12	21.36	0.137	21.39	0.138	21.04	0.127
5	64QAM	1	24	21.22	0.132	21.17	0.131	21.10	0.129
5	64QAM	12	0	20.38	0.109	20.32	0.108	20.37	0.109
5	64QAM	12	7	20.11	0.103	20.19	0.104	20.21	0.105
5	64QAM	12	13	20.20	0.105	20.26	0.106	20.22	0.105
5	64QAM	25	0	20.36	0.109	20.31	0.107	20.19	0.104

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	21.24	0.133	20.96	0.125	21.28	0.134
5	QPSK	1	12	21.23	0.133	21.15	0.130	21.46	0.140
5	QPSK	1	24	21.09	0.129	21.25	0.133	21.33	0.136
5	QPSK	12	0	20.14	0.103	20.20	0.105	20.11	0.103
5	QPSK	12	7	20.02	0.100	20.25	0.106	20.25	0.106
5	QPSK	12	13	20.28	0.107	20.07	0.102	20.15	0.104
5	QPSK	25	0	20.09	0.102	20.02	0.100	20.30	0.107
5	16QAM	1	0	20.57	0.114	20.22	0.105	20.33	0.108
5	16QAM	1	12	20.52	0.113	20.21	0.105	20.48	0.112
5	16QAM	1	24	20.41	0.110	20.45	0.111	20.31	0.107
5	16QAM	12	0	19.29	0.085	19.25	0.084	19.31	0.085
5	16QAM	12	7	19.27	0.085	19.30	0.085	19.23	0.084
5	16QAM	12	13	19.35	0.086	19.21	0.083	19.27	0.085
5	16QAM	25	0	19.28	0.085	19.06	0.081	19.36	0.086
5	64QAM	1	0	20.14	0.103	20.00	0.100	19.93	0.098
5	64QAM	1	12	20.36	0.109	20.17	0.104	20.20	0.105
5	64QAM	1	24	20.42	0.110	20.32	0.108	20.27	0.106
5	64QAM	12	0	19.22	0.084	19.12	0.082	19.20	0.083
5	64QAM	12	7	19.26	0.084	19.31	0.085	19.38	0.087
5	64QAM	12	13	19.07	0.081	19.10	0.081	19.26	0.084
5	64QAM	25	0	19.30	0.085	19.22	0.084	19.24	0.084

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	/	22.24	0.167	/
10	QPSK	1	25	/	22.18	0.165	/
10	QPSK	1	49	/	22.24	0.167	/
10	QPSK	25	0	/	21.42	0.139	/
10	QPSK	25	12	/	21.03	0.127	/
10	QPSK	25	25	/	21.42	0.139	/
10	QPSK	50	0	/	20.98	0.125	/
10	16QAM	1	0	/	21.54	0.143	/
10	16QAM	1	25	/	21.84	0.153	/
10	16QAM	1	49	/	21.79	0.151	/
10	16QAM	25	0	/	20.43	0.110	/
10	16QAM	25	12	/	20.76	0.119	/
10	16QAM	25	25	/	20.73	0.118	/
10	16QAM	50	0	/	20.33	0.108	/
10	64QAM	1	0	/	21.65	0.146	/
10	64QAM	1	25	/	21.27	0.134	/
10	64QAM	1	49	/	21.34	0.136	/
10	64QAM	25	0	/	20.44	0.111	/
10	64QAM	25	12	/	20.53	0.113	/
10	64QAM	25	25	/	20.64	0.116	/
10	64QAM	50	0	/	20.61	0.115	/

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	22.54	0.179	22.44	0.175	22.38	0.173
5	QPSK	1	12	22.35	0.172	22.46	0.176	22.43	0.175
5	QPSK	1	24	22.28	0.169	22.36	0.172	22.03	0.160
5	QPSK	12	0	21.37	0.137	21.21	0.132	21.43	0.139
5	QPSK	12	7	21.23	0.133	21.35	0.136	21.25	0.133
5	QPSK	12	13	21.23	0.133	21.20	0.132	21.54	0.143
5	QPSK	25	0	21.43	0.139	21.45	0.140	20.69	0.117
5	16QAM	1	0	21.42	0.139	21.55	0.143	21.38	0.137
5	16QAM	1	12	21.17	0.131	21.63	0.146	21.61	0.145
5	16QAM	1	24	21.45	0.140	21.74	0.149	19.09	0.081
5	16QAM	12	0	20.35	0.108	20.04	0.101	20.33	0.108
5	16QAM	12	7	20.45	0.111	20.74	0.119	20.44	0.111
5	16QAM	12	13	20.37	0.109	20.79	0.120	20.42	0.110
5	16QAM	25	0	20.38	0.109	20.24	0.106	20.55	0.114
5	64QAM	1	0	21.07	0.128	21.10	0.129	20.90	0.123
5	64QAM	1	12	21.41	0.138	20.85	0.122	20.66	0.116
5	64QAM	1	24	20.55	0.114	21.01	0.126	21.02	0.126
5	64QAM	12	0	19.70	0.093	18.50	0.071	20.56	0.114
5	64QAM	12	7	20.58	0.114	20.61	0.115	20.84	0.121
5	64QAM	12	13	20.34	0.108	18.83	0.076	20.60	0.115
5	64QAM	25	0	20.15	0.104	20.72	0.118	20.69	0.117

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	21.89	0.155	22.14	0.164	22.31	0.170
3	QPSK	1	8	22.40	0.174	22.61	0.182	22.61	0.182
3	QPSK	1	14	22.26	0.168	22.44	0.175	22.60	0.182
3	QPSK	8	0	21.40	0.138	21.43	0.139	21.35	0.136
3	QPSK	8	4	21.27	0.134	21.29	0.135	21.57	0.144
3	QPSK	8	7	21.37	0.137	21.41	0.138	21.62	0.145
3	QPSK	15	0	21.44	0.139	21.30	0.135	21.47	0.140
3	16QAM	1	0	21.74	0.149	21.47	0.140	20.15	0.104
3	16QAM	1	8	21.83	0.152	21.31	0.135	21.54	0.143
3	16QAM	1	14	21.41	0.138	21.59	0.144	21.46	0.140
3	16QAM	8	0	20.82	0.121	20.71	0.118	20.75	0.119
3	16QAM	8	4	20.77	0.119	20.67	0.117	20.65	0.116
3	16QAM	8	7	21.39	0.138	20.47	0.111	20.58	0.114
3	16QAM	15	0	19.34	0.086	20.50	0.112	20.40	0.110
3	64QAM	1	0	20.69	0.117	21.32	0.136	20.96	0.125
3	64QAM	1	8	21.23	0.133	21.67	0.147	21.19	0.132
3	64QAM	1	14	21.62	0.145	21.36	0.137	21.31	0.135
3	64QAM	8	0	20.51	0.112	20.54	0.113	20.49	0.112
3	64QAM	8	4	20.59	0.115	20.49	0.112	20.61	0.115
3	64QAM	8	7	20.09	0.102	20.56	0.114	20.74	0.119
3	64QAM	15	0	19.58	0.091	20.83	0.121	20.78	0.120

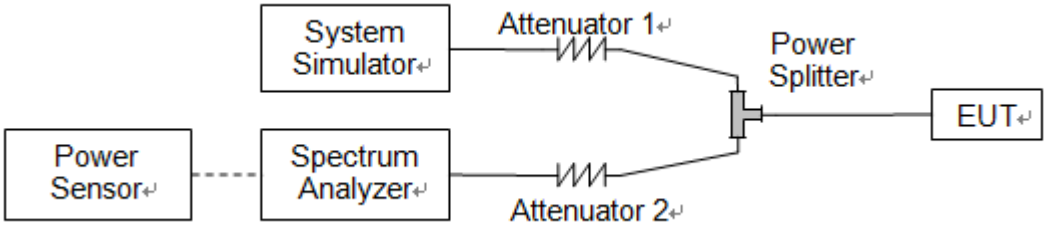
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	22.45	0.176	22.41	0.174	22.03	0.160
1.4	QPSK	1	3	22.31	0.170	22.68	0.185	22.64	0.184
1.4	QPSK	1	5	22.50	0.178	22.37	0.173	22.20	0.166
1.4	QPSK	3	0	22.23	0.167	22.30	0.170	21.97	0.157
1.4	QPSK	3	1	22.03	0.160	22.62	0.183	22.28	0.169
1.4	QPSK	3	3	22.35	0.172	22.00	0.158	22.36	0.172
1.4	QPSK	6	0	21.09	0.129	20.99	0.126	21.39	0.138
1.4	16QAM	1	0	21.53	0.142	21.66	0.147	21.27	0.134
1.4	16QAM	1	3	21.78	0.151	21.69	0.148	21.76	0.150
1.4	16QAM	1	5	21.93	0.156	20.78	0.120	21.83	0.152
1.4	16QAM	3	0	21.17	0.131	21.59	0.144	21.41	0.138
1.4	16QAM	3	1	21.27	0.134	21.29	0.135	21.43	0.139
1.4	16QAM	3	3	21.65	0.146	21.43	0.139	21.42	0.139
1.4	16QAM	6	0	18.74	0.075	20.44	0.111	20.33	0.108
1.4	64QAM	1	0	20.60	0.115	21.51	0.142	21.50	0.141
1.4	64QAM	1	3	21.65	0.146	21.65	0.146	21.37	0.137
1.4	64QAM	1	5	21.45	0.140	21.69	0.148	21.37	0.137
1.4	64QAM	3	0	21.55	0.143	21.24	0.133	21.83	0.152
1.4	64QAM	3	1	21.38	0.137	21.46	0.140	21.55	0.143
1.4	64QAM	3	3	21.77	0.150	21.77	0.150	22.05	0.160
1.4	64QAM	6	0	20.31	0.107	20.63	0.116	20.64	0.116

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.

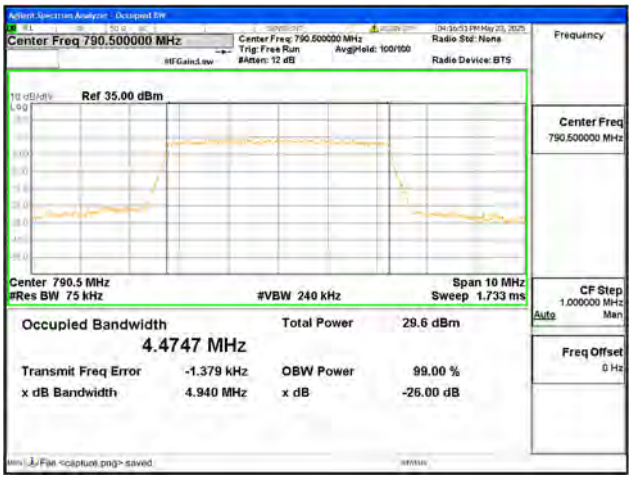
2.2.4. Test Result

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B14	5	Low	23305	790.5	QPSK	4.4747	4.9402	PASS
B14	5	Low	23305	790.5	16QAM	4.4751	4.9363	PASS
B14	5	Low	23305	790.5	64QAM	4.4849	4.9353	PASS
B14	5	Mid	23330	793	QPSK	4.4793	4.9521	PASS
B14	5	Mid	23330	793	16QAM	4.4799	4.9507	PASS
B14	5	Mid	23330	793	64QAM	4.4849	4.9183	PASS
B14	5	High	23355	795.5	QPSK	4.4800	4.9206	PASS
B14	5	High	23355	795.5	16QAM	4.4751	4.9372	PASS
B14	5	High	23355	795.5	64QAM	4.4910	4.9492	PASS
B14	10	Mid	23330	793	QPSK	8.9578	9.7528	PASS
B14	10	Mid	23330	793	16QAM	8.9456	9.7625	PASS
B14	10	Mid	23330	793	64QAM	8.9475	9.7318	PASS

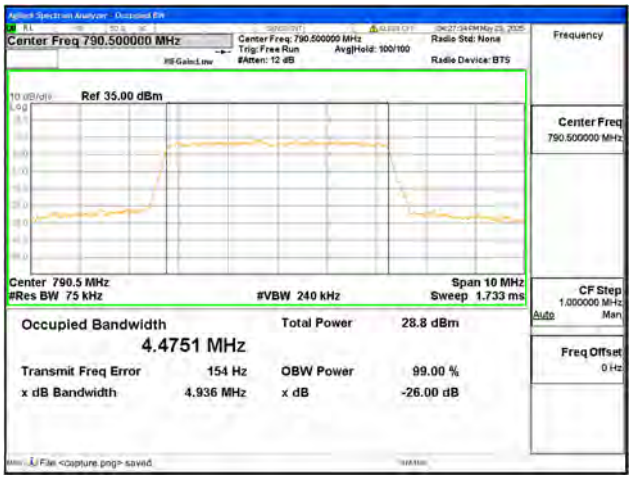
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B18 part90	5	Low	23875	817.5	QPSK	4.4912	4.9837	PASS
B18 part90	5	Low	23875	817.5	16QAM	4.4909	4.9512	PASS
B18 part90	5	Low	23875	817.5	64QAM	4.4924	4.9497	PASS
B18 part90	5	Mid	23895	819.5	QPSK	4.4809	4.9442	PASS
B18 part90	5	Mid	23895	819.5	16QAM	4.4851	4.9376	PASS
B18 part90	5	Mid	23895	819.5	64QAM	4.4959	4.9514	PASS
B18 part90	5	High	23915	821.5	QPSK	4.4825	4.9381	PASS
B18 part90	5	High	23915	821.5	16QAM	4.4867	4.9410	PASS
B18 part90	5	High	23915	821.5	64QAM	4.4952	4.9344	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26 Part90	1.4	Low	26697	814.7	QPSK	1.0963	1.2417	PASS
B26 Part90	1.4	Low	26697	814.7	16QAM	1.0994	1.2536	PASS
B26 Part90	1.4	Low	26697	814.7	64QAM	1.0974	1.2475	PASS
B26 Part90	1.4	Mid	26740	819	QPSK	1.0960	1.2498	PASS
B26 Part90	1.4	Mid	26740	819	16QAM	1.0952	1.2579	PASS
B26 Part90	1.4	Mid	26740	819	64QAM	1.1007	1.2509	PASS
B26 Part90	1.4	High	26783	823.3	QPSK	1.0944	1.2402	PASS
B26 Part90	1.4	High	26783	823.3	16QAM	1.0976	1.2469	PASS
B26 Part90	1.4	High	26783	823.3	64QAM	1.0948	1.2468	PASS
B26 Part90	3	Low	26705	815.5	QPSK	2.7174	3.0564	PASS
B26 Part90	3	Low	26705	815.5	16QAM	2.7086	3.0610	PASS
B26 Part90	3	Low	26705	815.5	64QAM	2.7239	3.0446	PASS
B26 Part90	3	Mid	26740	819	QPSK	2.7145	3.0392	PASS
B26 Part90	3	Mid	26740	819	16QAM	2.7147	3.0469	PASS
B26 Part90	3	Mid	26740	819	64QAM	2.7239	3.0684	PASS
B26 Part90	3	High	26775	822.5	QPSK	2.7167	3.0481	PASS
B26 Part90	3	High	26775	822.5	16QAM	2.7030	3.0471	PASS
B26	3	High	26775	822.5	64QAM	2.7259	3.0441	PASS

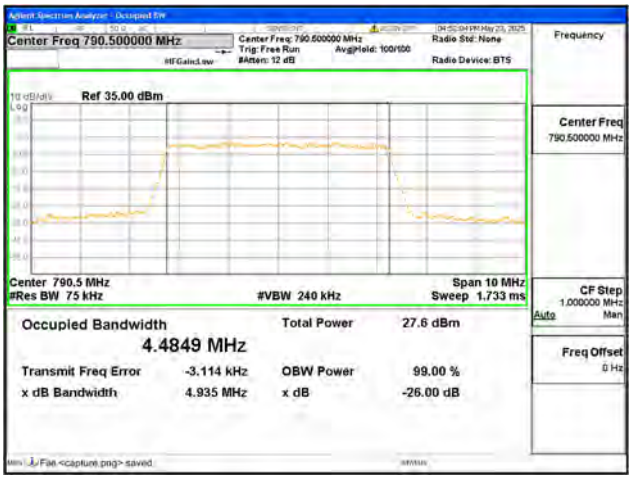
Part90								
B26 Part90	5	Low	26715	816.5	QPSK	4.4811	4.9263	PASS
B26 Part90	5	Low	26715	816.5	16QAM	4.4821	4.9009	PASS
B26 Part90	5	Low	26715	816.5	64QAM	4.4815	4.9160	PASS
B26 Part90	5	Mid	26740	819	QPSK	4.4830	4.9250	PASS
B26 Part90	5	Mid	26740	819	16QAM	4.4883	4.9516	PASS
B26 Part90	5	Mid	26740	819	64QAM	4.4784	4.9151	PASS
B26 Part90	5	High	26765	821.5	QPSK	4.4800	4.9144	PASS
B26 Part90	5	High	26765	821.5	16QAM	4.4818	4.9260	PASS
B26 Part90	5	High	26765	821.5	64QAM	4.4820	4.9167	PASS
B26 Part90	10	Low	26740	819	QPSK	8.9673	9.8475	PASS
B26 Part90	10	Low	26740	819	16QAM	8.9541	9.7290	PASS
B26 Part90	10	Low	26740	819	64QAM	8.9803	9.8152	PASS
B26 Part90	10	Mid	26740	819	QPSK	8.9870	9.8153	PASS
B26 Part90	10	Mid	26740	819	16QAM	8.9499	9.7594	PASS
B26 Part90	10	Mid	26740	819	64QAM	8.9509	9.7810	PASS
B26 Part90	10	High	26740	819	QPSK	8.9638	9.7870	PASS
B26 Part90	10	High	26740	819	16QAM	8.9505	9.7427	PASS
B26 Part90	10	High	26740	819	64QAM	8.9764	9.8406	PASS



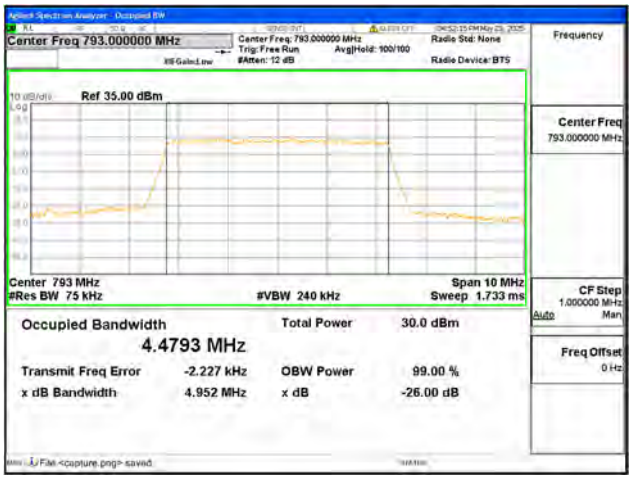
B14 / 5MHz / QPSK/ Low CH



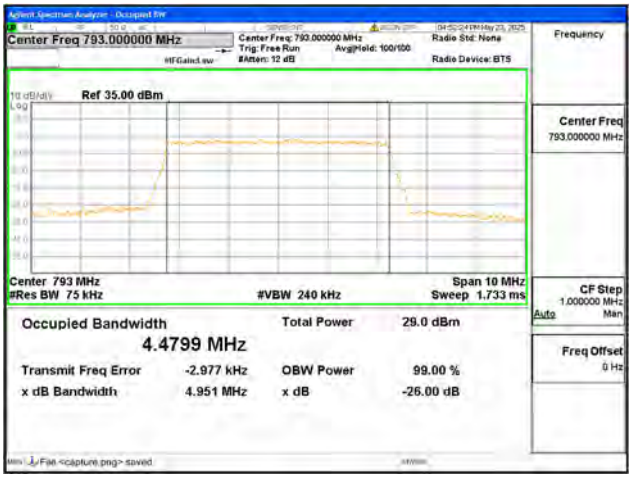
B14 / 5MHz / 16QAM/ Low CH



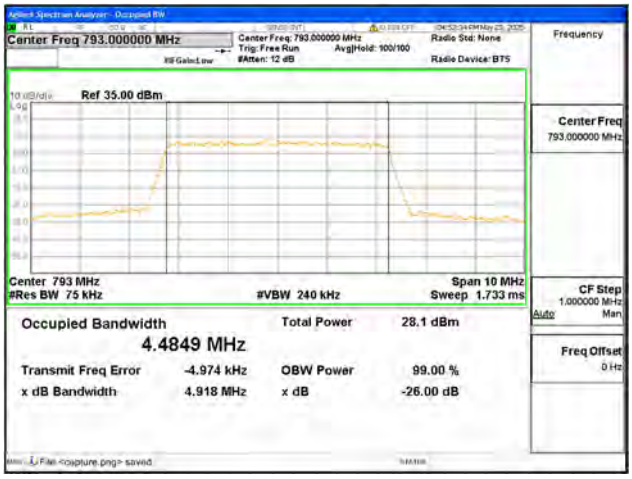
B14 / 5MHz / 64QAM/ Low CH



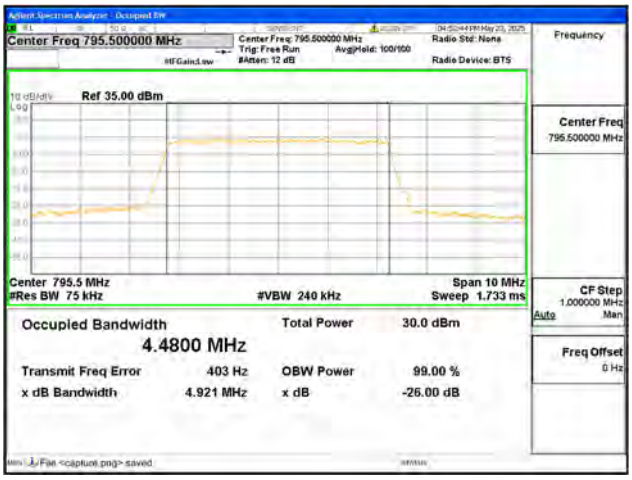
B14 / 5MHz / QPSK/ Mid CH



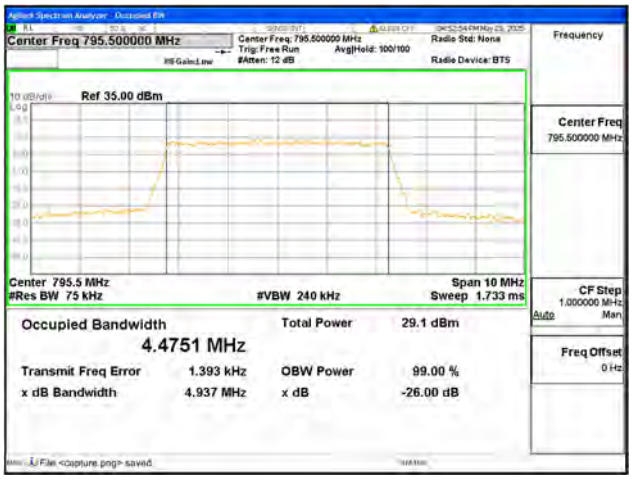
B14 / 5MHz / 16QAM/ Mid CH



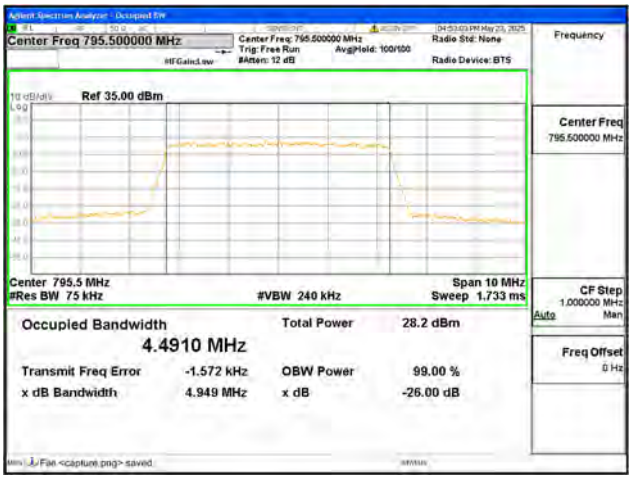
B14 / 5MHz / 64QAM/ Mid CH



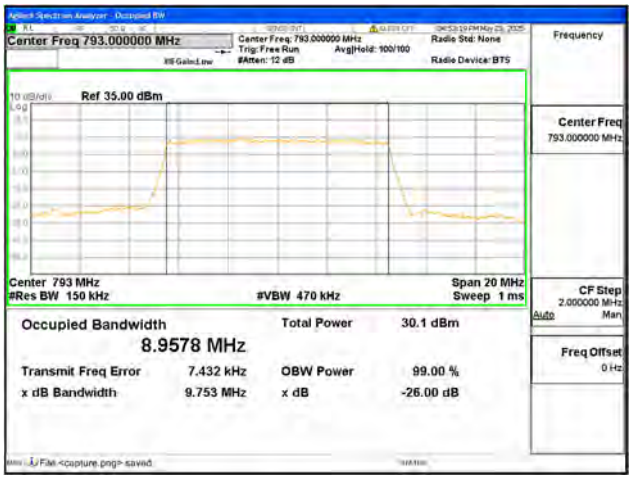
B14 / 5MHz / QPSK/ High CH



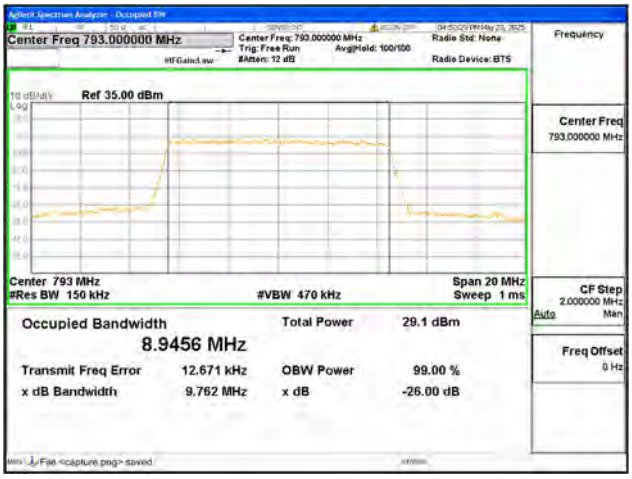
B14 / 5MHz / 16QAM/ High CH



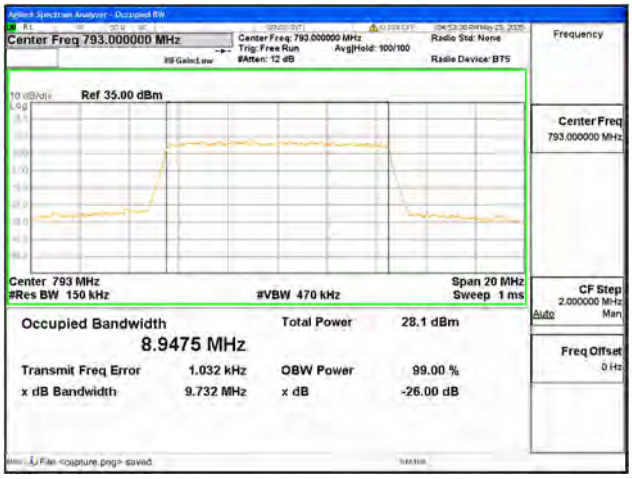
B14 / 5MHz / 64QAM/ High CH



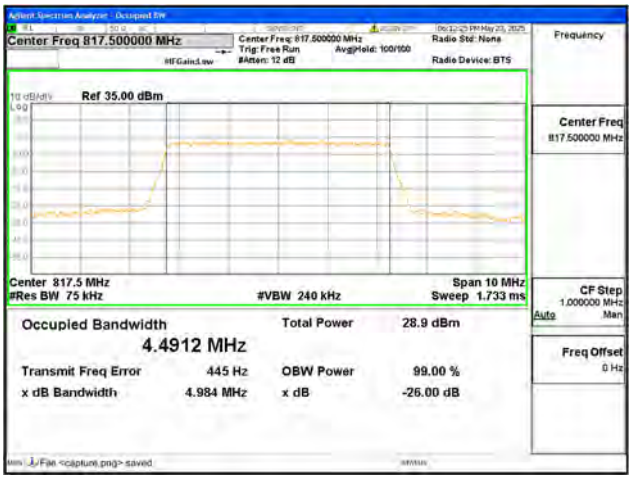
B14 / 10MHz / QPSK/ Mid CH



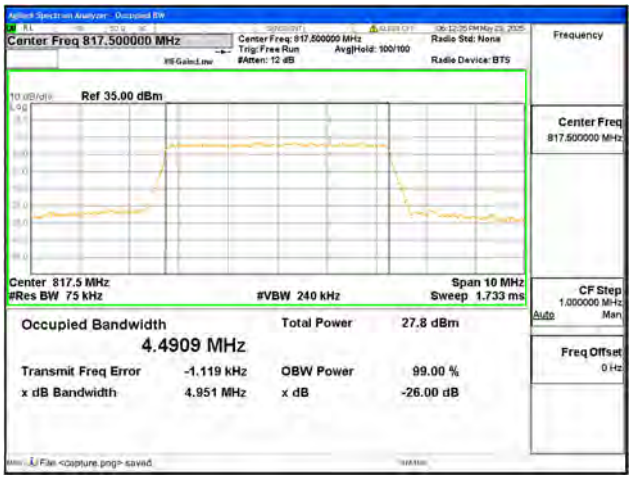
B14 / 10MHz / 16QAM/ Mid CH



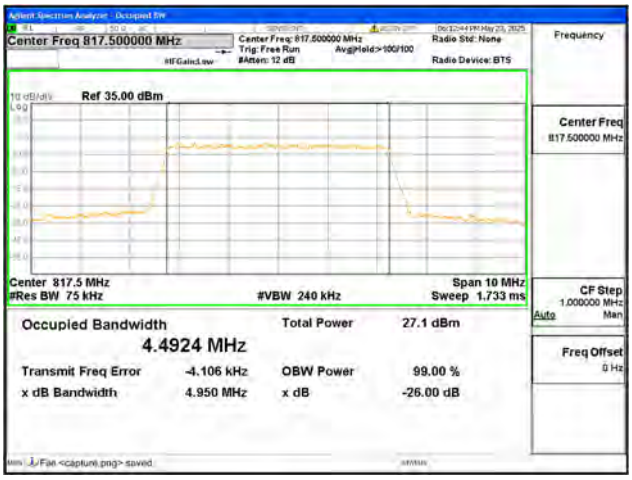
B14 / 10MHz / 64QAM/ Mid CH



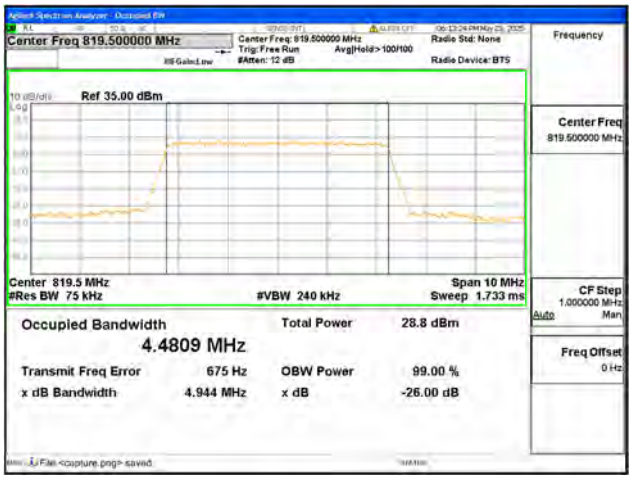
B18 part90 / 5MHz / QPSK/ Low CH



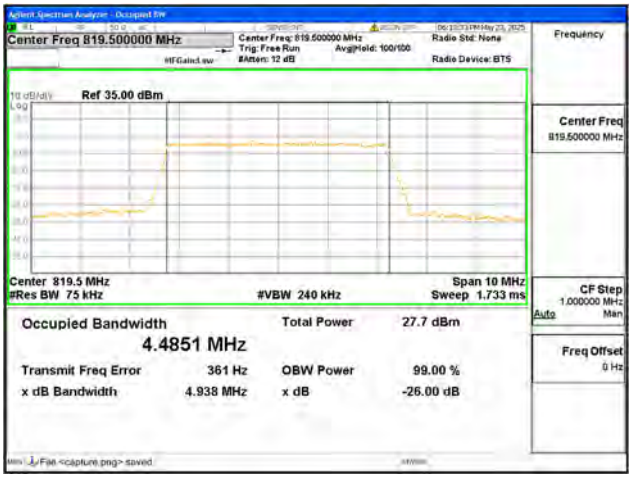
B18 part90 / 5MHz / 16QAM/ Low CH



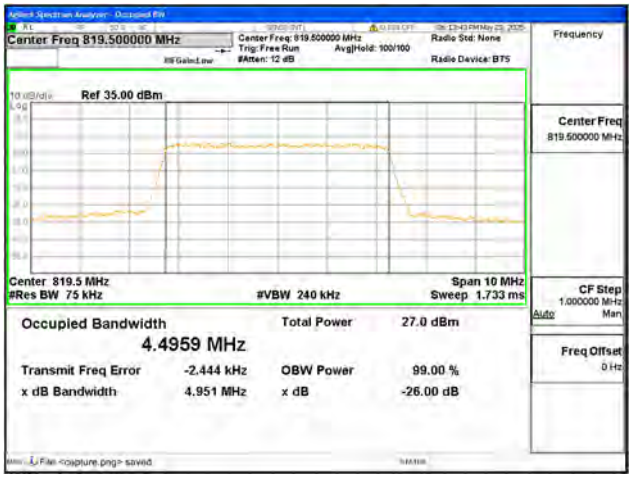
B18 part90 / 5MHz / 64QAM/ Low CH



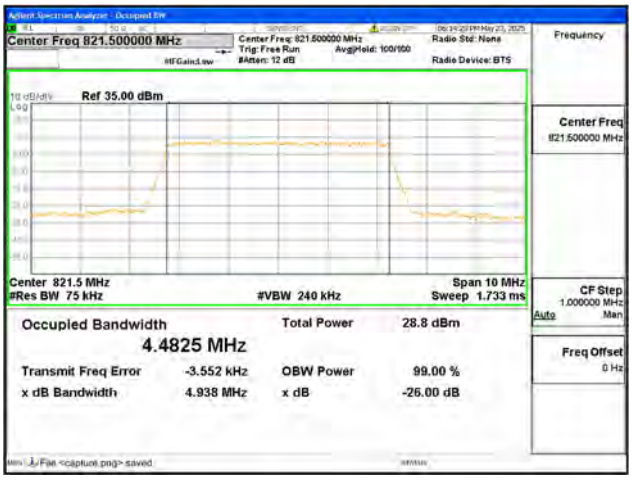
B18 part90 / 5MHz / QPSK/ Mid CH



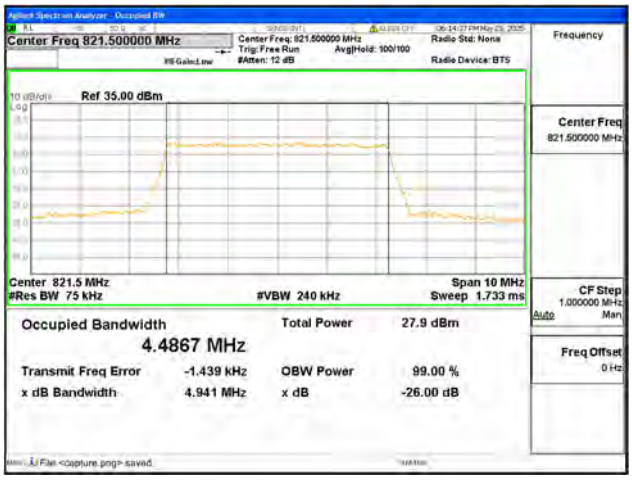
B18 part90 / 5MHz / 16QAM/ Mid CH



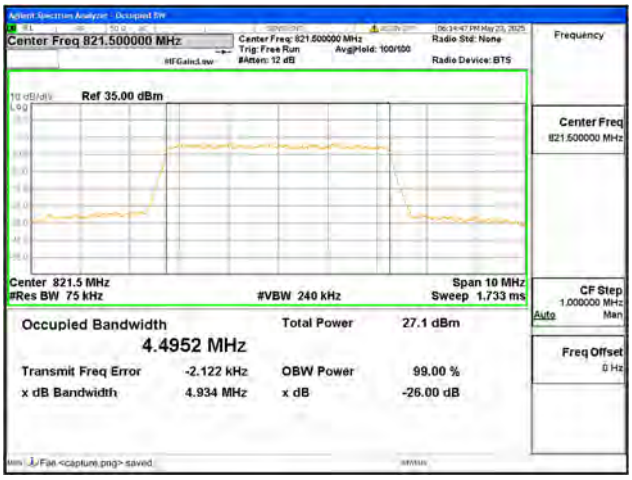
B18 part90 / 5MHz / 64QAM/ Mid CH



B18 part90 / 5MHz / QPSK/ High CH

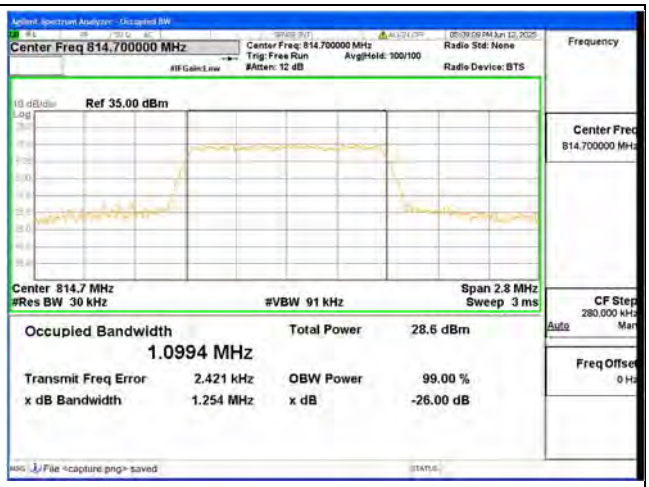


B18 part90 / 5MHz / 16QAM/ High CH



B18 part90 / 5MHz / 64QAM/ High CH

B26 Part90 / 1.4MHz / QPSK/ Low CH



B26 Part90 / 1.4MHz / 16QAM/ Low CH

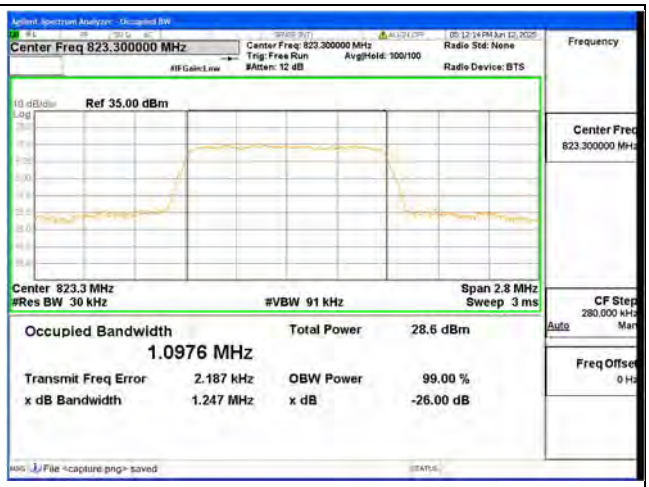
B26 Part90 / 1.4MHz / 64QAM/ Low CH

B26 Part90 / 1.4MHz / QPSK/ Mid CH

B26 Part90 / 1.4MHz / 16QAM/ Mid CH

B26 Part90 / 1.4MHz / 64QAM/ Mid CH

B26 Part90 / 1.4MHz / QPSK/ High CH

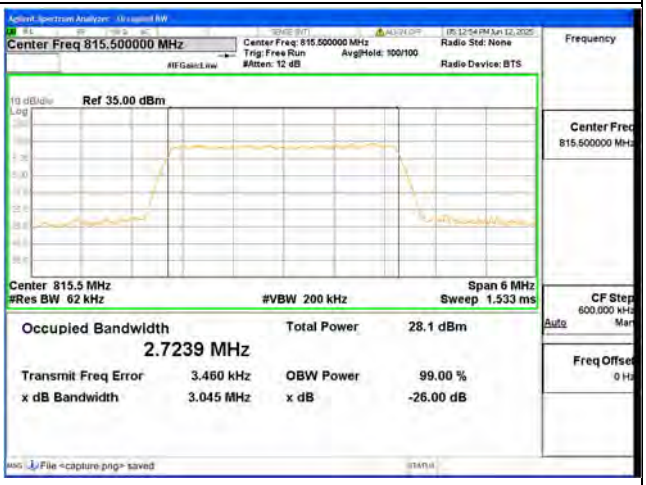


B26 Part90 / 1.4MHz / 16QAM/ High CH

B26 Part90 / 1.4MHz / 64QAM/ High CH

B26 Part90 / 3MHz / QPSK/ Low CH

B26 Part90 / 3MHz / 16QAM/ Low CH



B26 Part90 / 3MHz / 64QAM/ Low CH

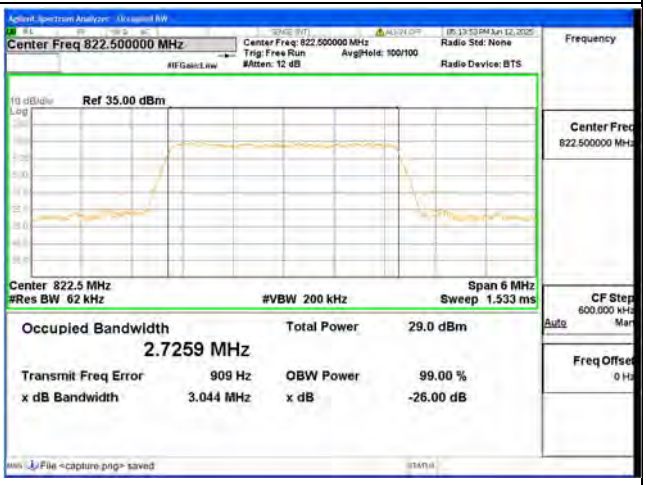
B26 Part90 / 3MHz / QPSK/ Mid CH

B26 Part90 / 3MHz / 16QAM/ Mid CH

B26 Part90 / 3MHz / 64QAM/ Mid CH

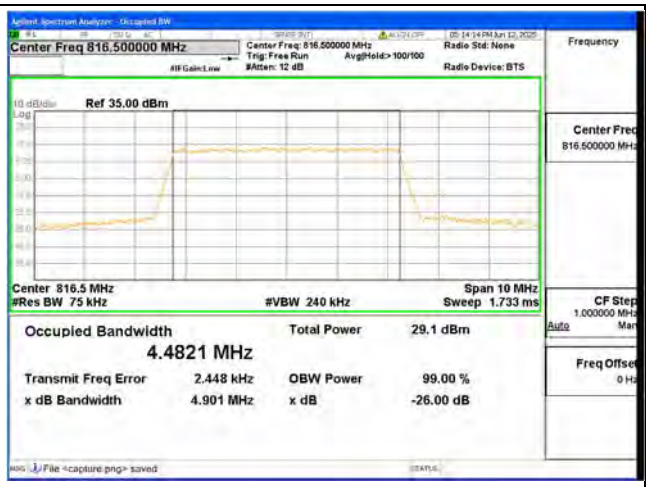
B26 Part90 / 3MHz / QPSK/ High CH

B26 Part90 / 3MHz / 16QAM/ High CH



B26 Part90 / 3MHz / 64QAM/ High CH

B26 Part90 / 5MHz / QPSK/ Low CH

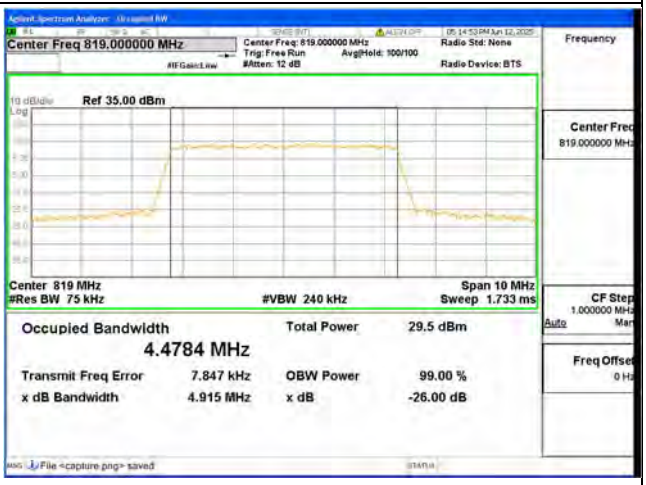


B26 Part90 / 5MHz / 16QAM/ Low CH

B26 Part90 / 5MHz / 64QAM/ Low CH

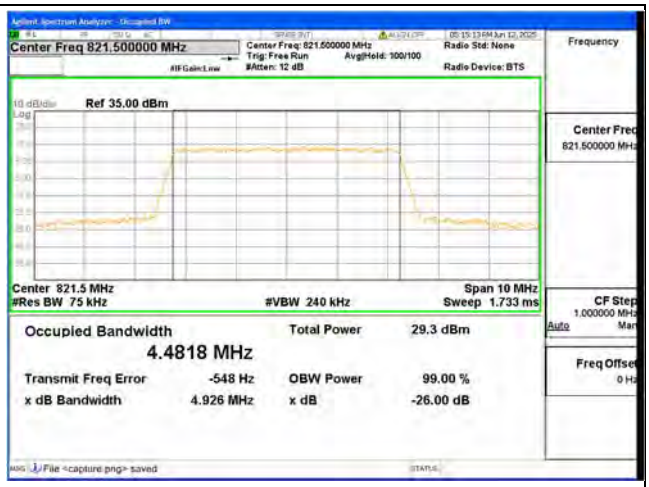
B26 Part90 / 5MHz / QPSK/ Mid CH

B26 Part90 / 5MHz / 16QAM/ Mid CH



B26 Part90 / 5MHz / 64QAM/ Mid CH

B26 Part90 / 5MHz / QPSK/ High CH



B26 Part90 / 5MHz / 16QAM/ High CH

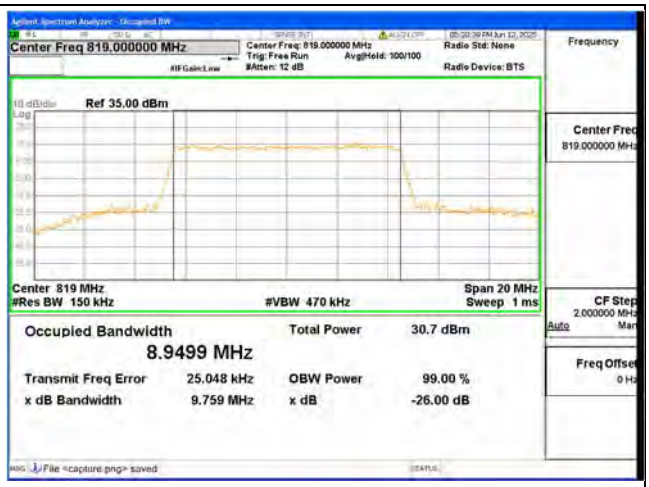
B26 Part90 / 5MHz / 64QAM/ High CH

B26 Part90 / 10MHz / QPSK/ Low CH

B26 Part90 / 10MHz / 16QAM/ Low CH

B26 Part90 / 10MHz / 64QAM/ Low CH

B26 Part90 / 10MHz / QPSK/ Mid CH

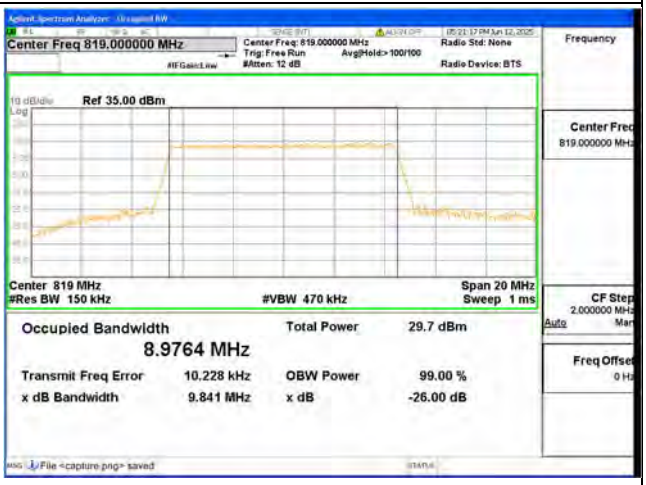


B26 Part90 / 10MHz / 16QAM/ Mid CH

B26 Part90 / 10MHz / 64QAM/ Mid CH

B26 Part90 / 10MHz / QPSK/ High CH

B26 Part90 / 10MHz / 16QAM/ High CH



B26 Part90 / 10MHz / 64QAM/ High CH

2.3. Frequency Stability

2.3.1. Requirement

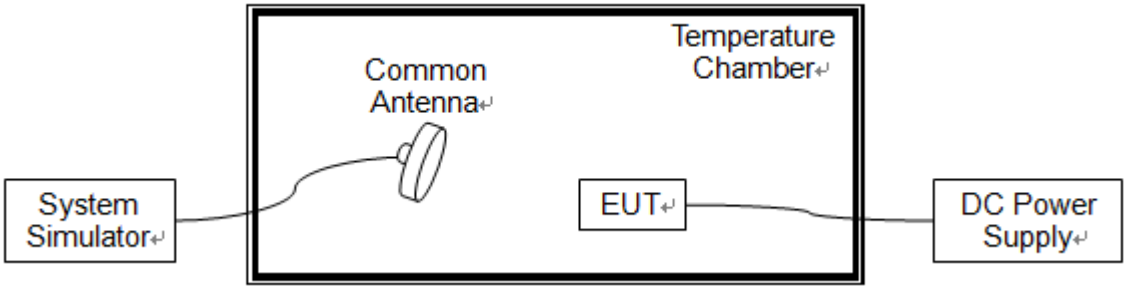
According to FCC section 2.1055 & 90.213, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block. According to FCC section 2.1055, the test conditions are:

(a) The temperature is varied from -30°C to +50°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 0°C to 45°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 3.87V, 4.45V and 3.50V, which are specified by the applicant; the normal temperature here used is 20°C.

LTE Band 14, 64QAM, Channel 23330, Frequency 793.0MHz Limit=±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.87	+20(Ref)	-14	-0.018	PASS
Normal		0	-6	-0.008	
Normal		+10	14	0.018	
Normal		+20	-1	-0.001	
Normal		+30	17	0.021	
Normal		+40	18	0.023	
Normal		+45	-4	-0.005	
High	4.45	+20	19	0.024	
BATT.ENDPOINT	3.50	+20	18	0.023	

LTE Band 18, 64QAM, Channel 23895, Frequency 819.5MHz Limit =Within Authorized Band					
Voltage (%)	**Power (VDC)**	**Temp (°C)**	**Fre. Dev. (Hz)**	**Deviation (ppm)**	**Result**
Normal	3.87	+20(Ref)	14	0.017	PASS
Normal		0	0	0.000	
Normal		+10	17	0.021	
Normal		+20	18	0.022	
Normal		+30	17	0.021	
Normal		+40	18	0.022	
Normal		+45	16	0.020	
High	4.45	+20	16	0.020	
BATT.ENDPOINT	3.50	+20	21	**0.026**	

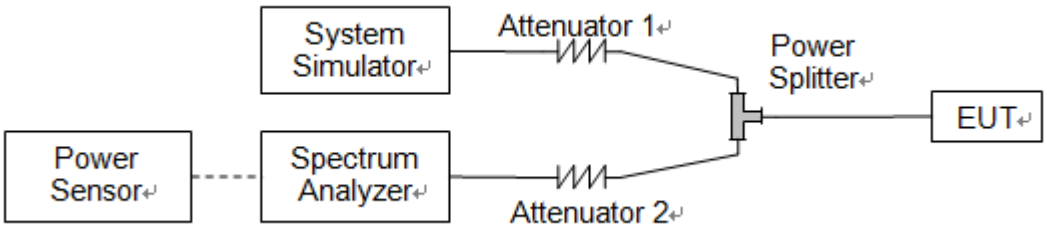
LTE Band 26, QPSK, Channel 26740, Frequency 819MHz Limit =±2.5ppm					
Voltage (%)	**Power (VDC)**	**Temp(°C)**	**Fre. Dev.(Hz)**	**Deviation (ppm)**	**Result**
Normal	3.87	+20(Ref)	-18	-0.008	PASS
Normal		0	5	0.002	
Normal		+10	14	0.006	
Normal		+20	13	0.006	
Normal		+30	17	0.007	
Normal		+40	19	0.008	
Normal		+45	2	0.001	
High	4.45	+20	18	0.008	
BATT.ENDPOINT	3.50	+20	13	0.006	

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

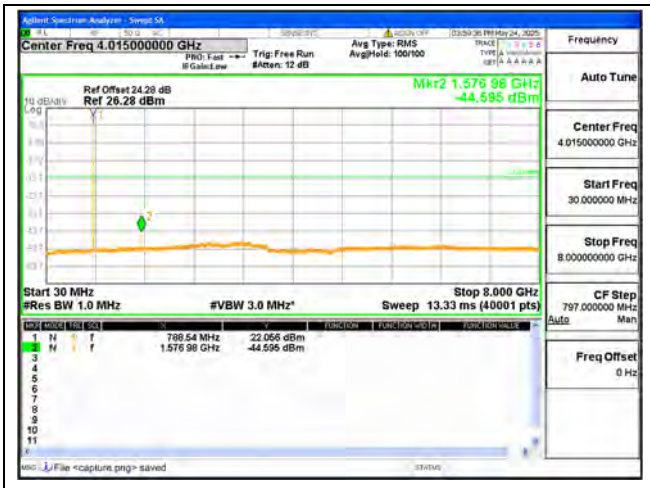


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.4.3. Test procedure

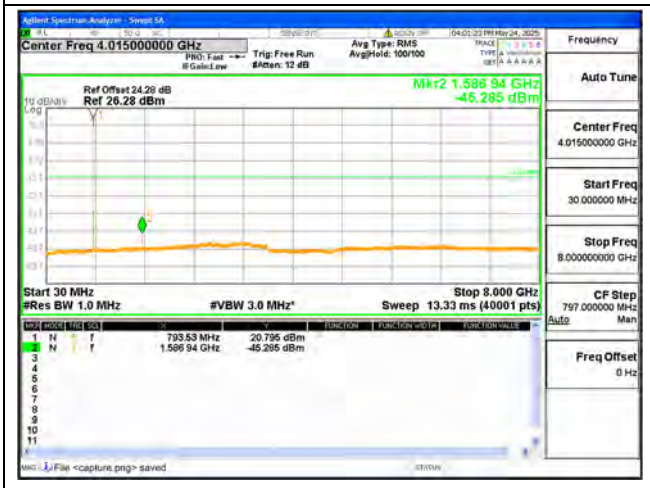
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.4.4. Test Result



B14 / 5MHz / Low CH / QPSK

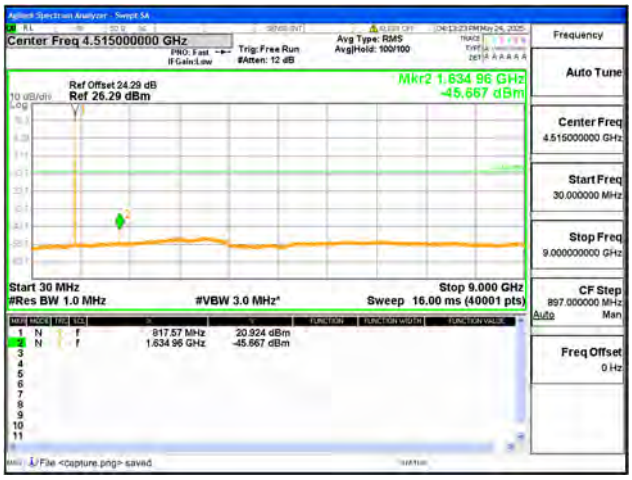
B14 / 5MHz / Mid CH / QPSK



B14 / 5MHz / High CH / QPSK

B14 / 10MHz / Mid CH / QPSK

B18 part90 / 5MHz / Low CH / QPSK



B18 part90 / 5MHz / Mid CH / QPSK

B18 part90 / 5MHz / High CH / QPSK

B26 Part90 / 1.4MHz / Low CH / QPSK

B26 Part90 / 1.4MHz / Mid CH / QPSK

B26 Part90 / 1.4MHz / High CH / QPSK

B26 Part90 / 3MHz / Low CH / QPSK

B26 Part90 / 3MHz / Mid CH / QPSK

B26 Part90 / 3MHz / High CH / QPSK

B26 Part90 / 5MHz / Low CH / QPSK

B26 Part90 / 5MHz / Mid CH / QPSK

B26 Part90 / 5MHz / High CH / QPSK

B26 Part90 / 10MHz / Low CH / QPSK

B26 Part90 / 10MHz / Mid CH / QPSK

B26 Part90 / 10MHz / High CH / QPSK

2.5. Band Edge

2.5.1. Requirement

Band 14

According to FCC section 90.543(e), for operations in the 758-768 MHz and the 788-798 MHz bands, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:

(1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations.

(2) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB.

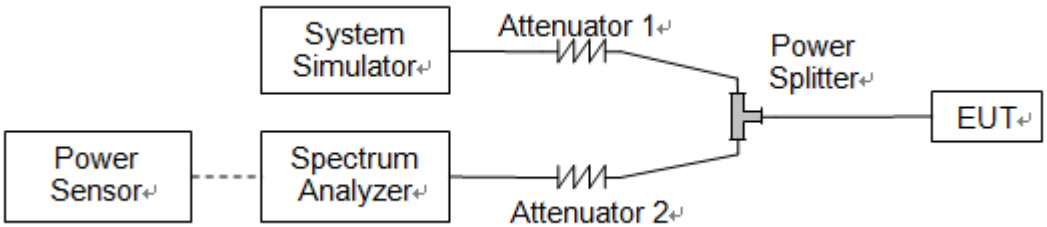
(3) Compliance with the provisions of paragraphs (e)(1) and (2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.

(4) Compliance with the provisions of paragraph (e)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of 30 kHz may be employed.

Band 18/26

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

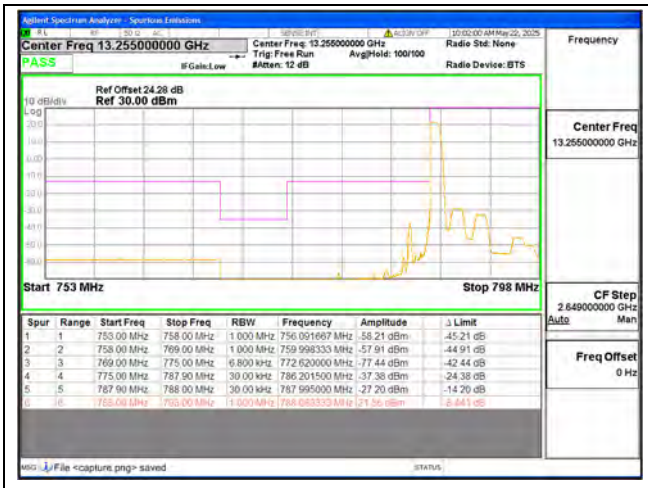


The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

2.5.3. Test procedure

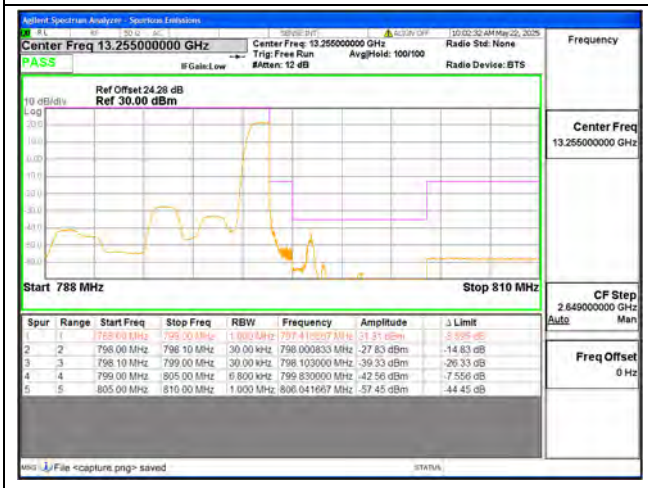
KDB 971168 D01v03 Section 6.0 and ANSI/TIA-603-E-2016.

2.5.4. Test Result



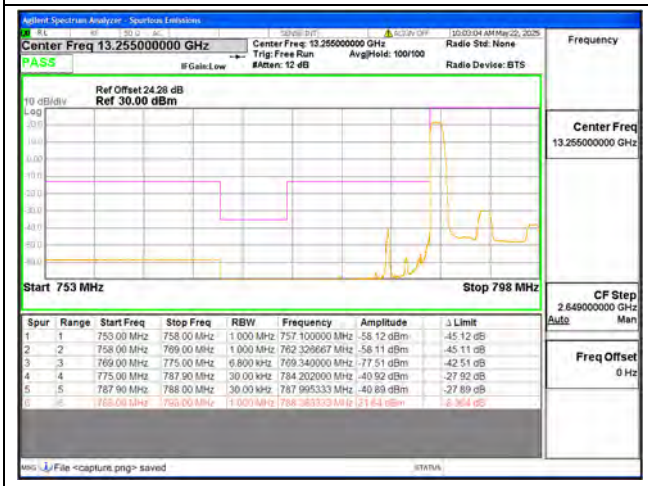
B14 / 5MHz / Low CH / QPSK / 1 RB

B14 / 5MHz / Low CH / QPSK / FULL RB



B14 / 5MHz / High CH / QPSK / 1 RB

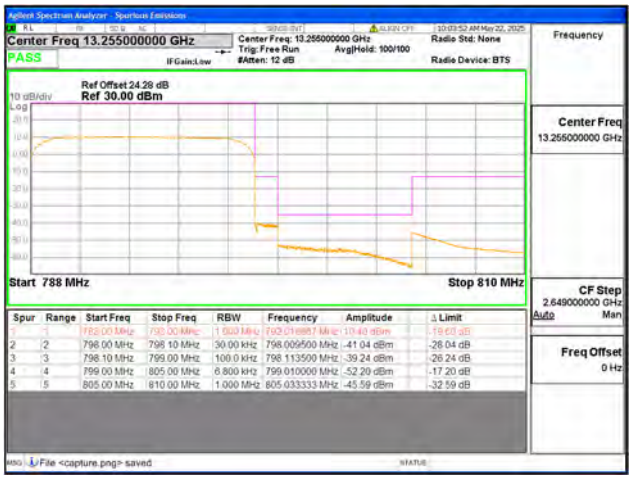
B14 / 5MHz / High CH / QPSK / FULL RB



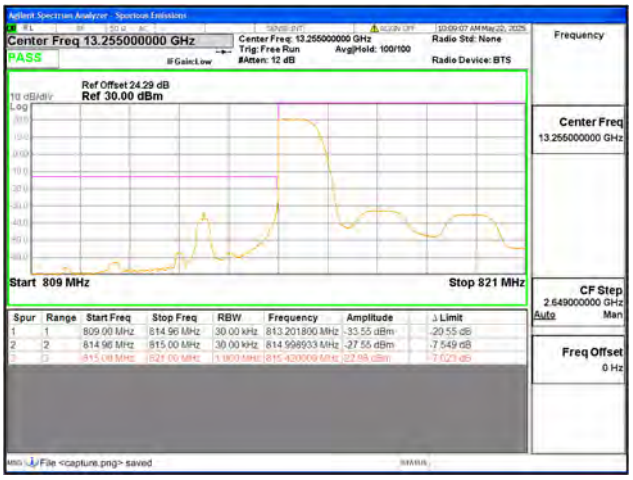
B14 / 10MHz / Low CH / QPSK / 1 RB

B14 / 10MHz / Low CH / QPSK / FULL RB

B14 / 10MHz / High CH / QPSK / 1 RB

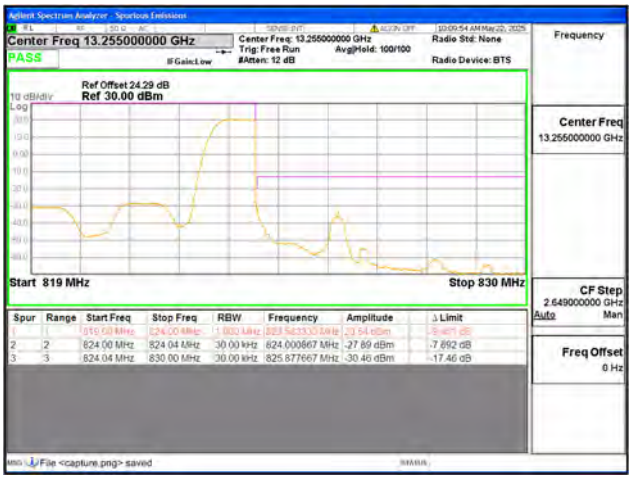


B14 / 10MHz / High CH / QPSK / FULL RB

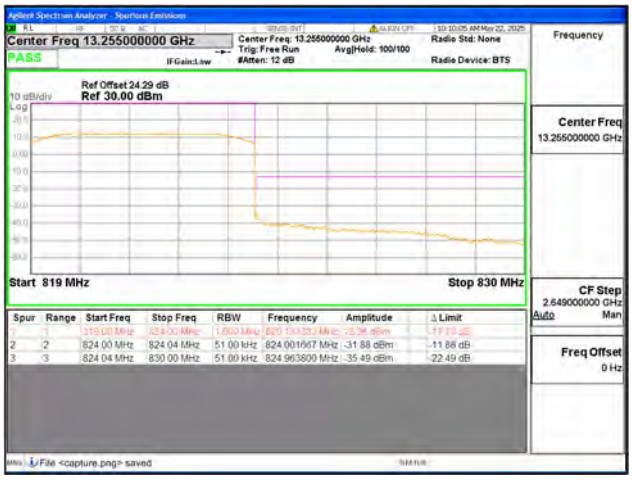


B18 part90 / 5MHz / Low CH / QPSK / 1 RB

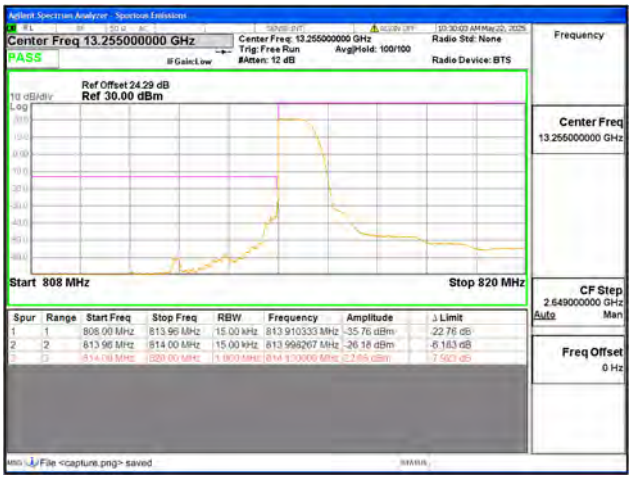
B18 part90 / 5MHz / Low CH / QPSK / FULL RB



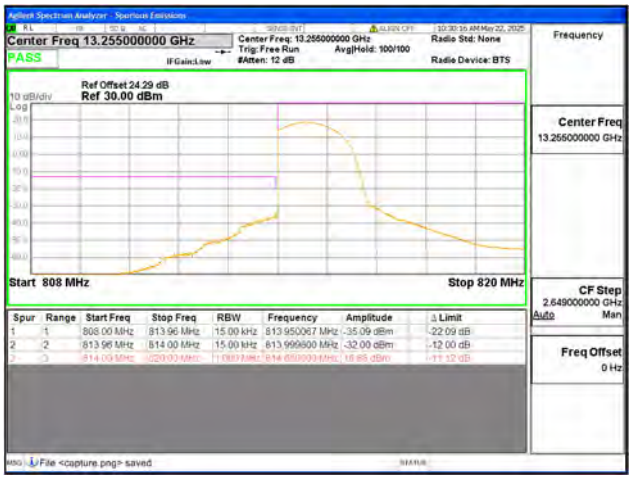
B18 part90 / 5MHz / High CH / QPSK / 1 RB



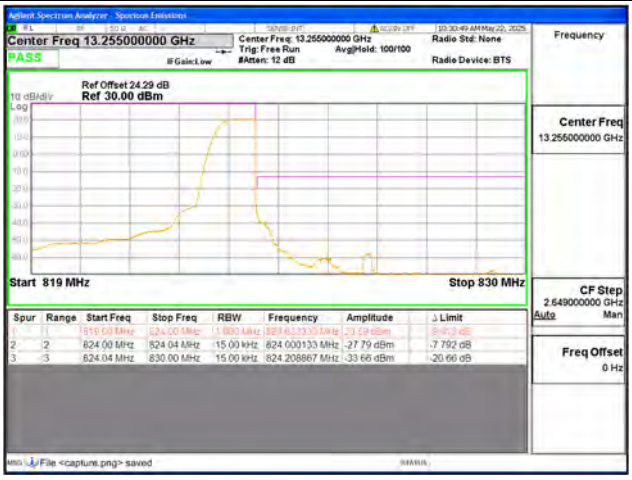
B18 part90 / 5MHz / High CH / QPSK / FULL RB



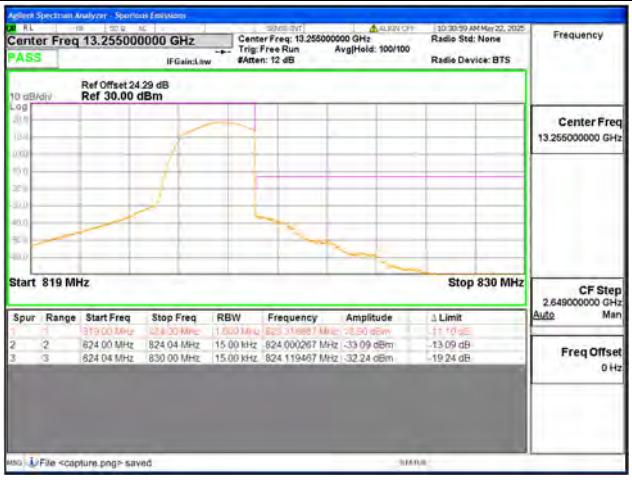
B26 Part90 / 1.4MHz / Low CH / QPSK / 1 RB



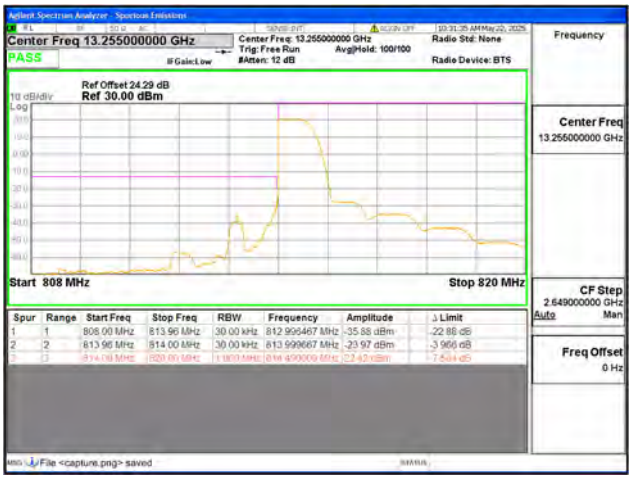
B26 Part90 / 1.4MHz / Low CH / QPSK / FULL RB



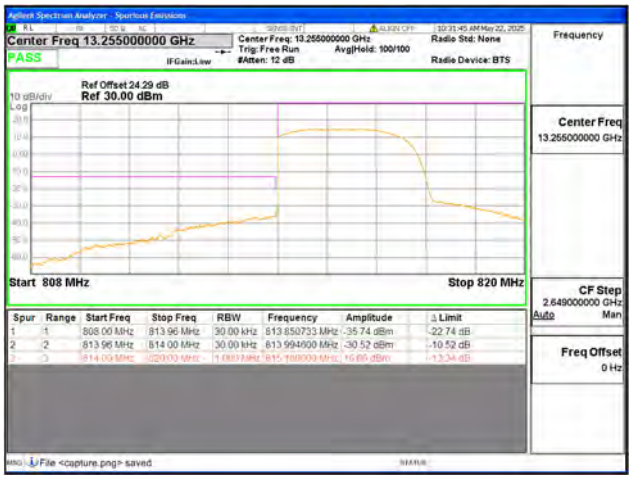
B26 Part90 / 1.4MHz / High CH / QPSK / 1 RB



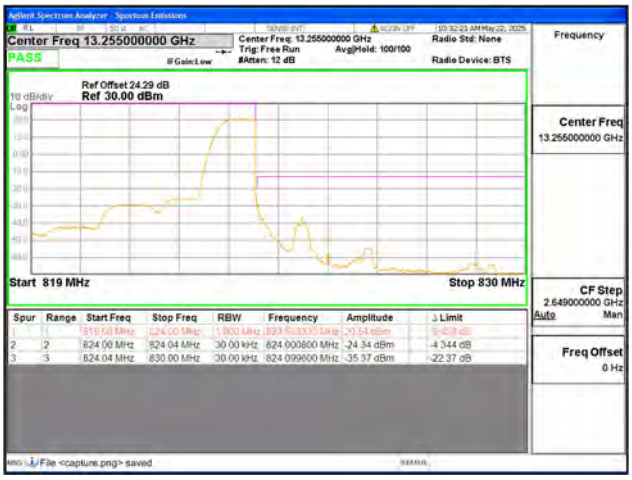
B26 Part90 / 1.4MHz / High CH / QPSK / FULL RB



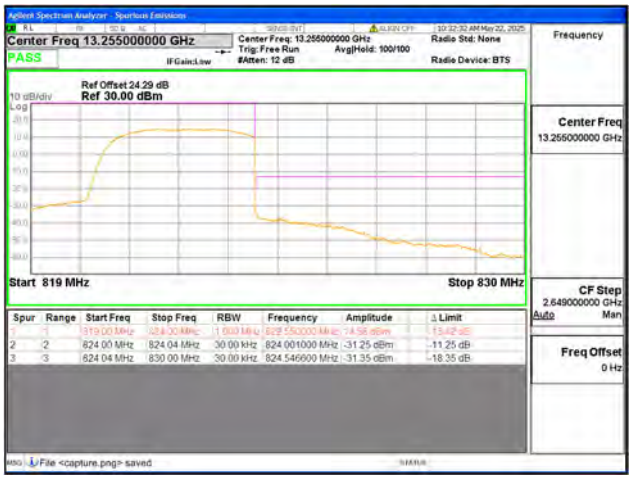
B26 Part90 / 3MHz / Low CH / QPSK / 1 RB



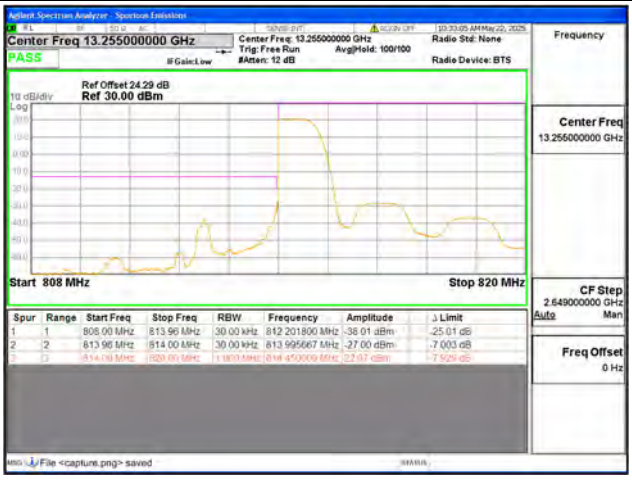
B26 Part90 / 3MHz / Low CH / QPSK / FULL RB



B26 Part90 / 3MHz / High CH / QPSK / 1 RB

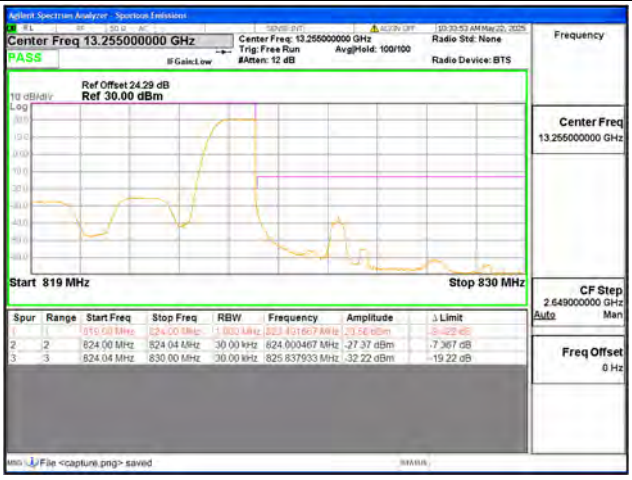


B26 Part90 / 3MHz / High CH / QPSK / FULL RB

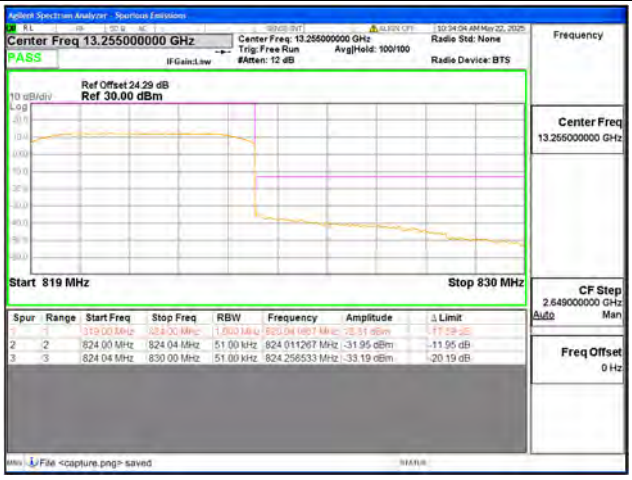


B26 Part90 / 5MHz / Low CH / QPSK / 1 RB

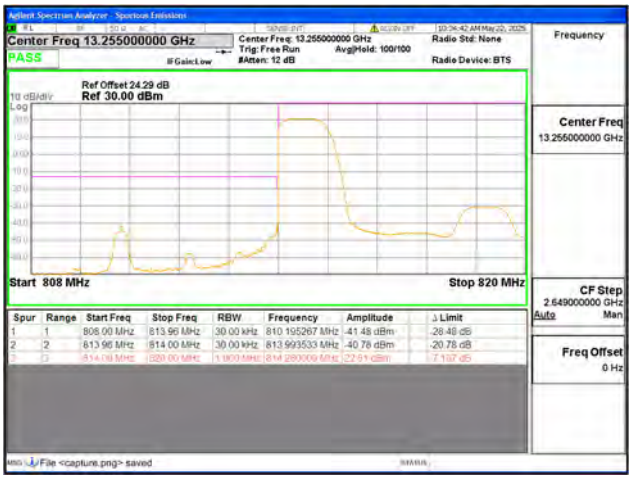
B26 Part90 / 5MHz / Low CH / QPSK / FULL RB



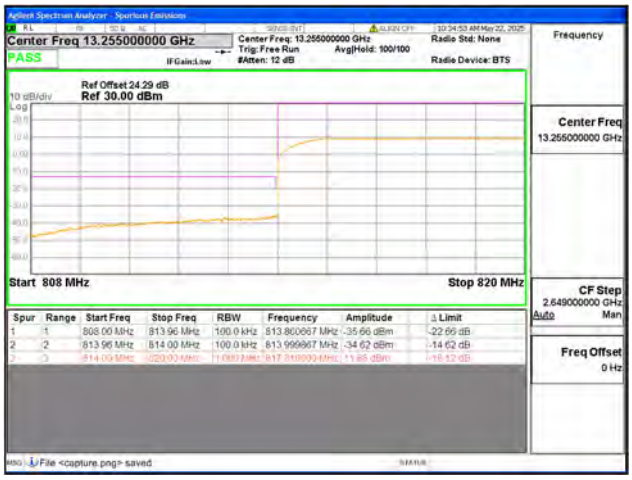
B26 Part90 / 5MHz / High CH / QPSK / 1 RB



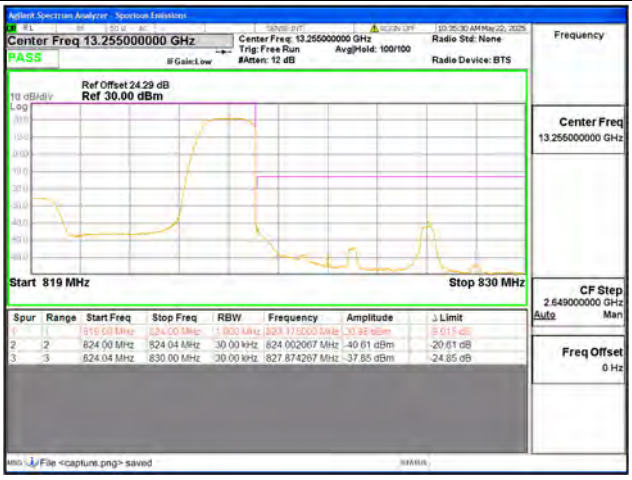
B26 Part90 / 5MHz / High CH / QPSK / FULL RB



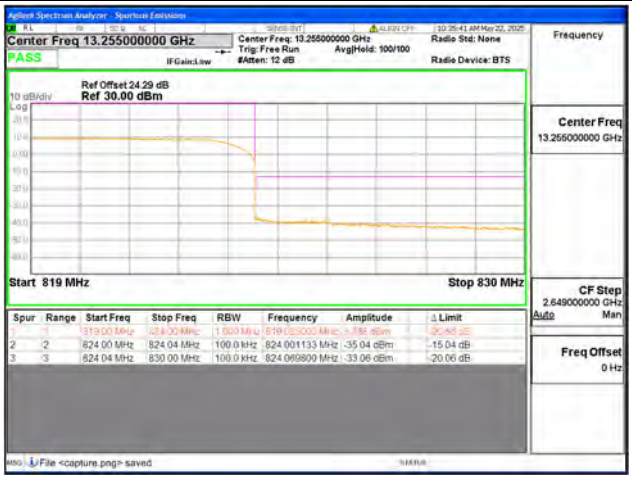
B26 Part90 / 10MHz / Low CH / QPSK / 1 RB



B26 Part90 / 10MHz / Low CH / QPSK / FULL RB



B26 Part90 / 10MHz / High CH / QPSK / 1 RB



B26 Part90 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

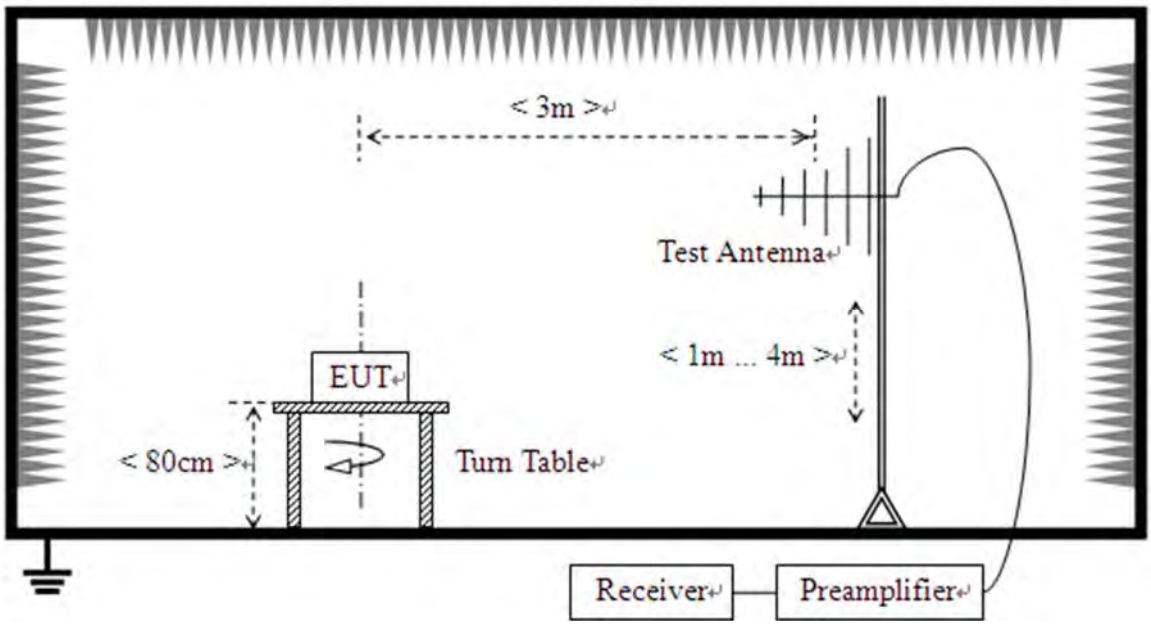
2.6.1. Requirement

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.

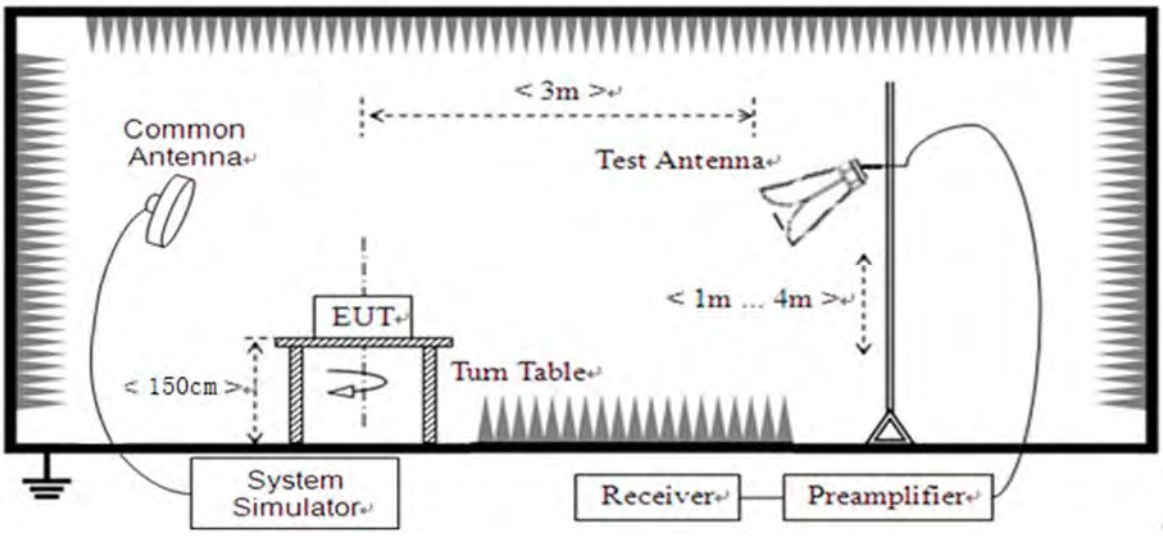
Additional requirement for Band 14

According to FCC section 90.543(f), for operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. This calculated to be -40dBm.

2.6.2. Test Description



(For the test frequency from 30MHz to1GHz)



(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.

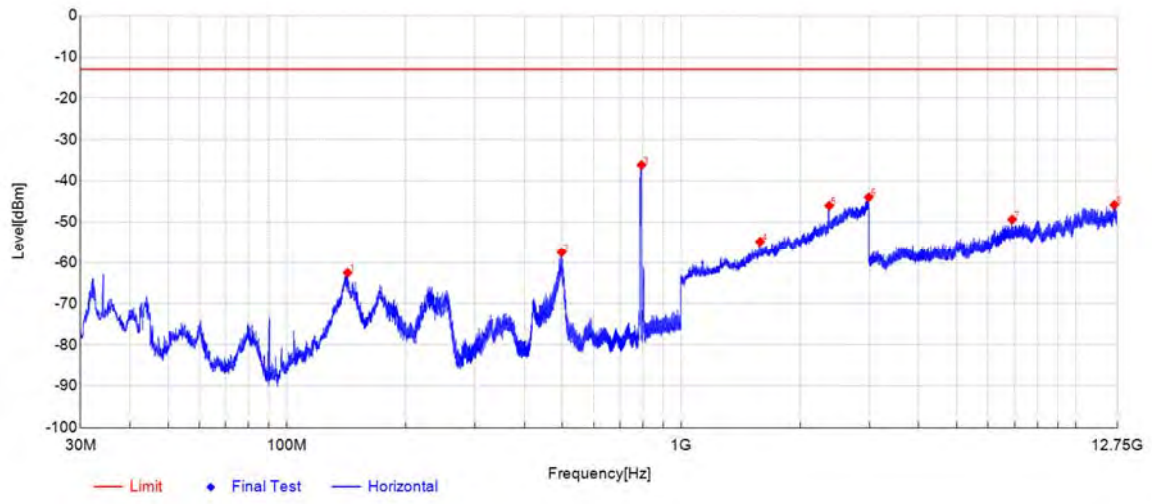
For measurements below 1GHz the resolution bandwidth is set to 100kHz for peak detection measurements.

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

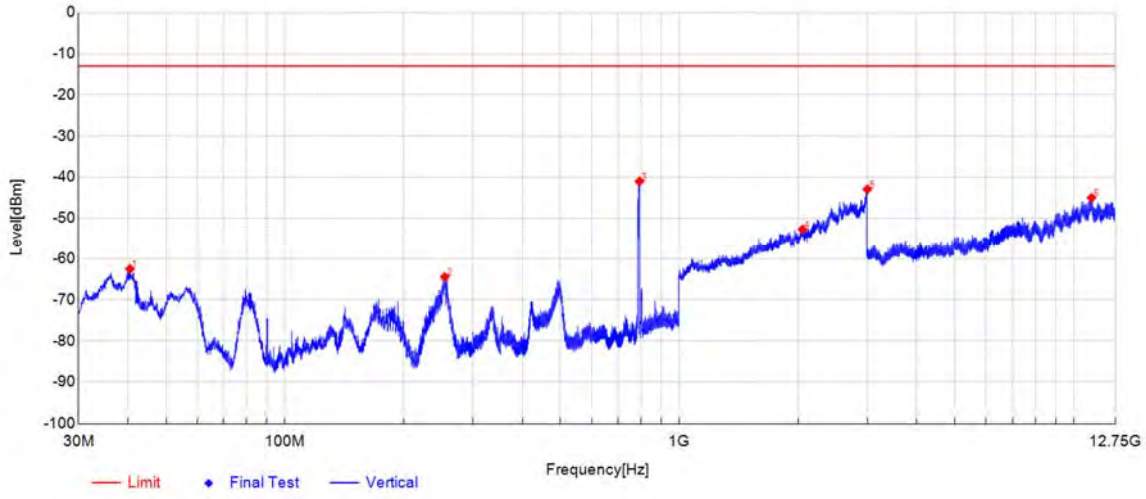
2.6.4. Test Result

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 test condition was recorded in this test report.
Note3: 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 14

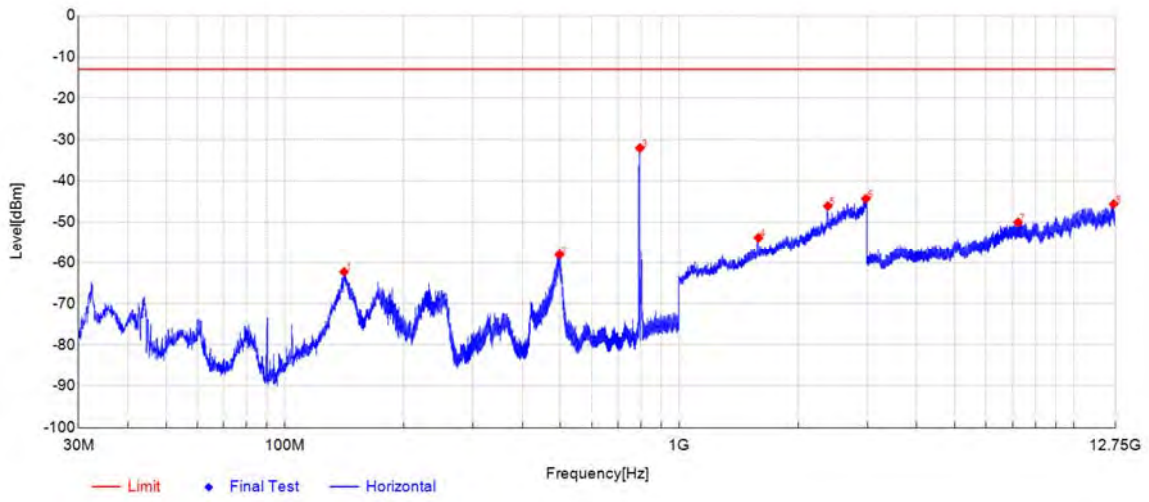


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
142.5741	-36.94	-62.48	-25.5	-13.0	49.5	Horizontal	PK	PASS
497.0784	-45.79	-57.46	-11.7	-13.0	44.5	Horizontal	PK	PASS
792.6521	-29.02	-36.15	-7.1	-	-	Horizontal	PK	NA
1584.1168	-57.29	-54.77	2.5	-13.0	41.8	Horizontal	PK	PASS
2371.0742	-55.33	-46.01	9.3	-13.0	33.0	Horizontal	PK	PASS
2986.3973	-59.03	-43.98	15.1	-13.0	31.0	Horizontal	PK	PASS
6902.1451	-60.68	-49.36	11.3	-13.0	36.4	Horizontal	PK	PASS
12534.026	-69.16	-45.81	23.4	-13.0	32.8	Horizontal	PK	PASS

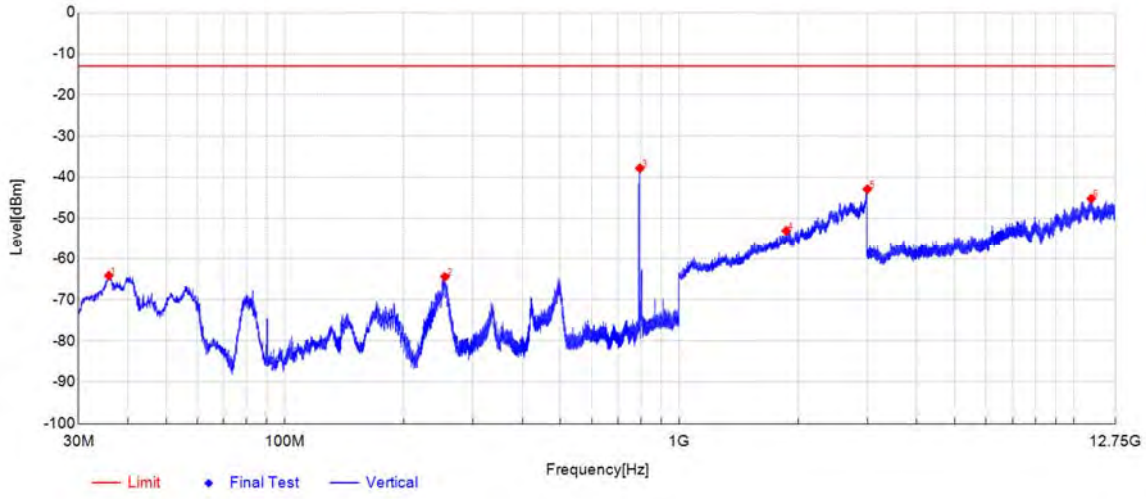


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.4765	-40.97	-62.51	-21.5	-13.0	49.5	Vertical	PK	PASS
254.4692	-46.72	-64.46	-17.7	-13.0	51.5	Vertical	PK	PASS
792.6521	-34.17	-40.97	-6.8	-	-	Vertical	PK	NA
2053.4107	-59.32	-52.68	6.6	-13.0	39.7	Vertical	PK	PASS
2998.7998	-60.48	-42.90	17.6	-13.0	29.9	Vertical	PK	PASS
11094.854	-67.38	-45.00	22.4	-13.0	32.0	Vertical	PK	PASS

Plot for Mid Channel

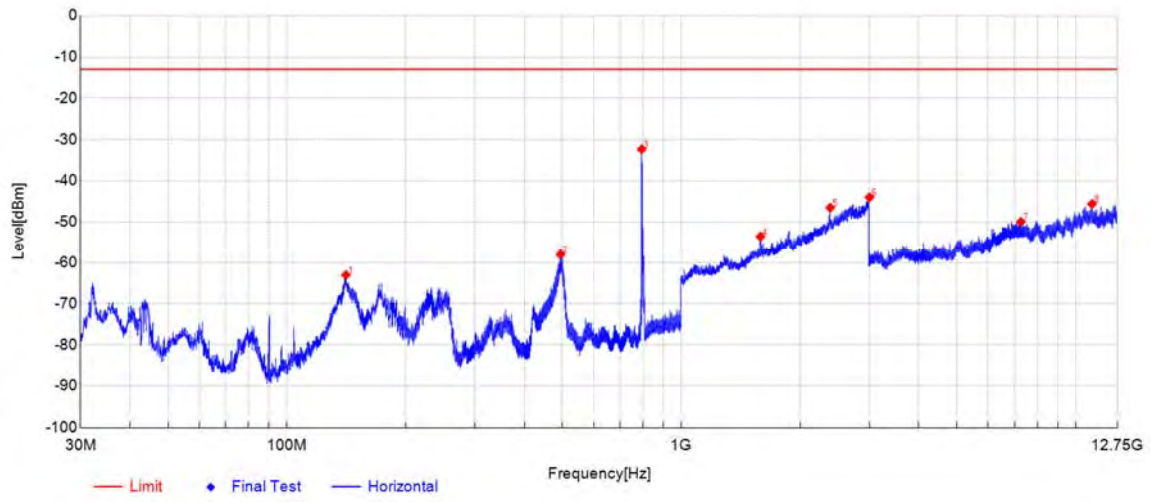


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
141.2646	-36.69	-62.27	-25.6	-13.0	49.3	Horizontal	PK	PASS
496.7873	-46.35	-58.04	-11.7	-13.0	45.0	Horizontal	PK	PASS
794.4467	-24.91	-32.03	-7.1	-	-	Horizontal	PK	NA
1587.7175	-56.31	-53.79	2.5	-13.0	40.8	Horizontal	PK	PASS
2380.6761	-55.66	-46.09	9.6	-13.0	33.1	Horizontal	PK	PASS
2971.5943	-59.23	-44.31	14.9	-13.0	31.3	Horizontal	PK	PASS
7224.8862	-62.24	-50.03	12.2	-13.0	37.0	Horizontal	PK	PASS
12626.656	-68.60	-45.61	23.0	-13.0	32.6	Horizontal	PK	PASS

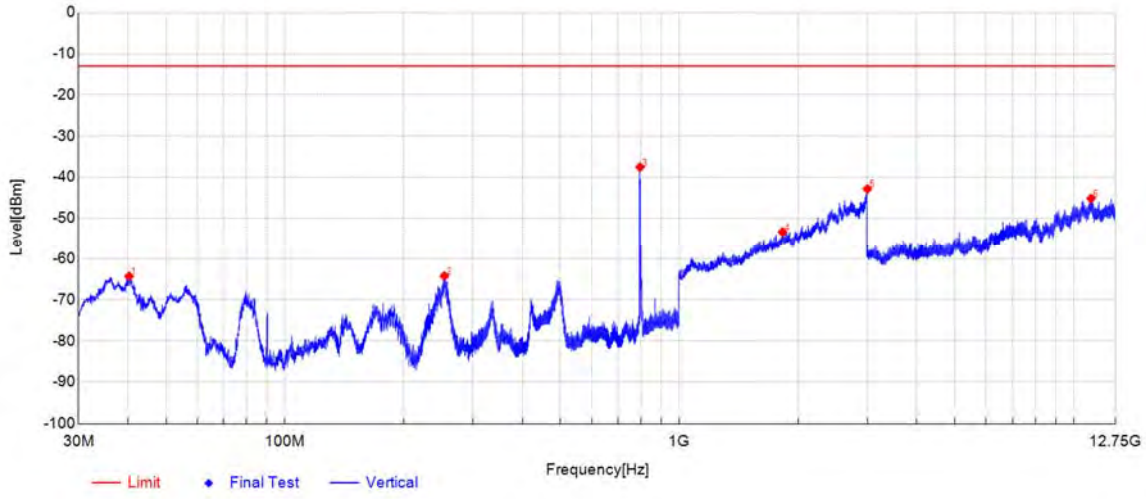


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
35.7718	-41.02	-64.14	-23.1	-13.0	51.1	Vertical	PK	PASS
254.7602	-46.67	-64.40	-17.7	-13.0	51.4	Vertical	PK	PASS
794.3982	-31.04	-37.80	-6.8	-	-	Vertical	PK	NA
1866.5733	-58.27	-53.04	5.2	-13.0	40.0	Vertical	PK	PASS
2999.1998	-60.52	-42.89	17.6	-13.0	29.9	Vertical	PK	PASS
11080.716	-67.53	-45.20	22.3	-13.0	32.2	Vertical	PK	PASS

Plot for High Channel

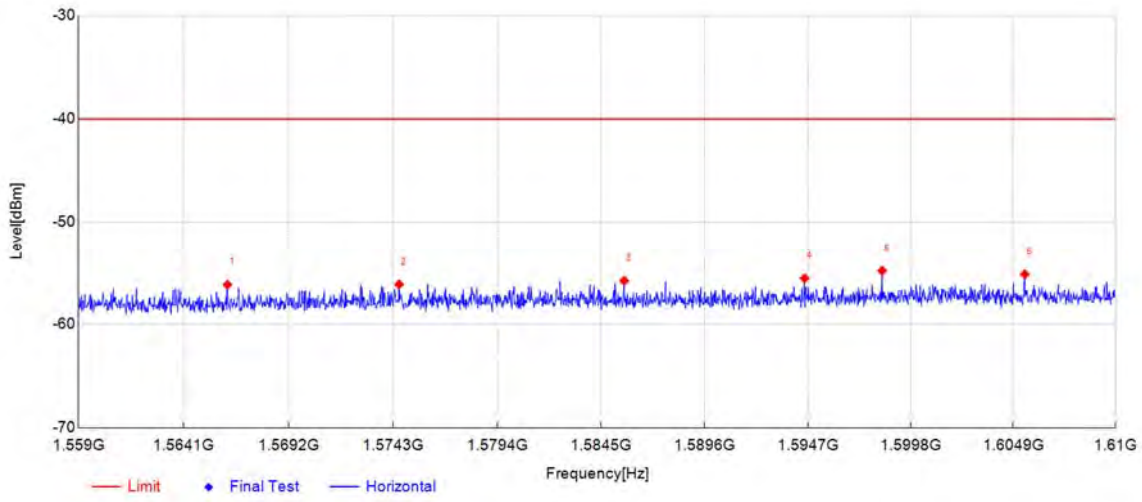


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
141.1676	-37.39	-62.98	-25.6	-13.0	50.0	Horizontal	PK	PASS
494.0227	-46.12	-57.96	-11.8	-13.0	45.0	Horizontal	PK	PASS
793.7192	-25.18	-32.31	-7.1	-	-	Horizontal	PK	NA
1588.5177	-56.05	-53.52	2.5	-13.0	40.5	Horizontal	PK	PASS
2385.8772	-56.03	-46.48	9.6	-13.0	33.5	Horizontal	PK	PASS
2999.5999	-59.45	-43.96	15.5	-13.0	31.0	Horizontal	PK	PASS
7263.4007	-62.40	-49.91	12.5	-13.0	36.9	Horizontal	PK	PASS
11000.275	-66.55	-45.58	21.0	-13.0	32.6	Horizontal	PK	PASS

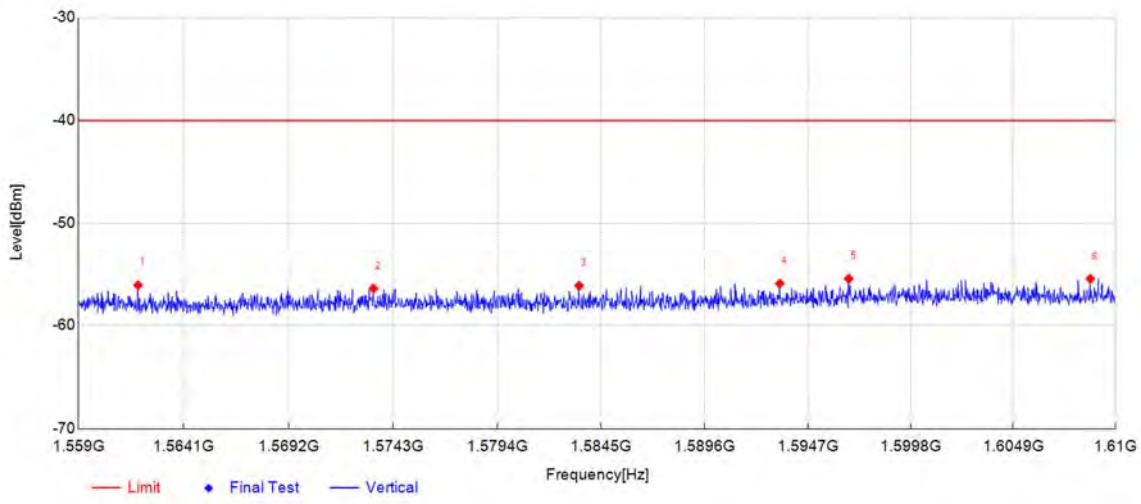


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.2825	-42.68	-64.28	-21.6	-13.0	51.3	Vertical	PK	PASS
253.7417	-46.48	-64.23	-17.8	-13.0	51.2	Vertical	PK	PASS
795.2713	-30.79	-37.54	-6.8	-	-	Vertical	PK	NA
1827.3655	-58.78	-53.34	5.4	-13.0	40.3	Vertical	PK	PASS
2997.5995	-60.27	-42.84	17.4	-13.0	29.8	Vertical	PK	PASS
11067.065	-67.42	-45.15	22.3	-13.0	32.2	Vertical	PK	PASS

1559MHz-1610MHz



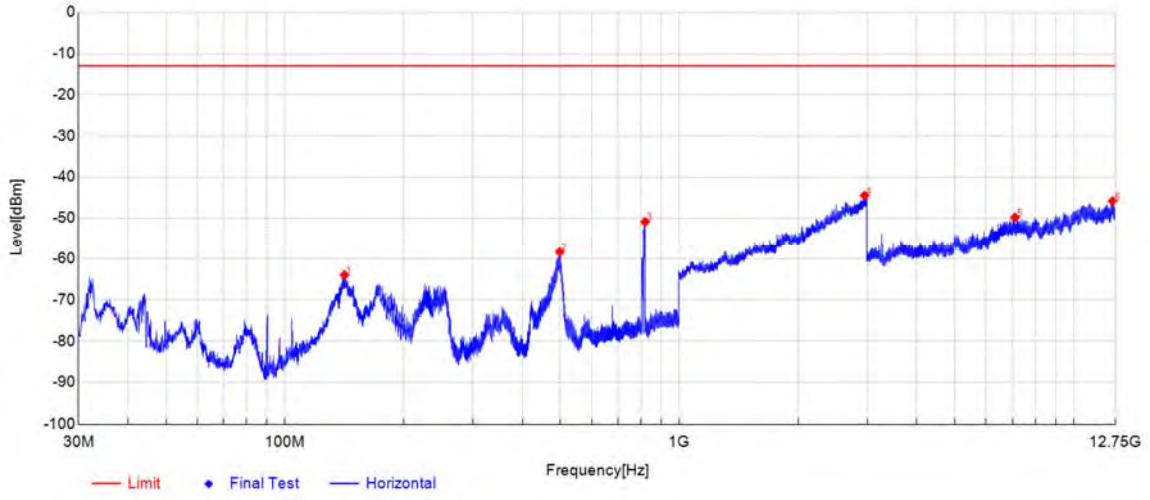
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1566.2201	-58.65	-56.15	2.5	-40.0	16.2	Horizontal	PK	PASS
1574.5883	-58.64	-56.12	2.5	-40.0	16.1	Horizontal	PK	PASS
1585.6353	-58.30	-55.78	2.5	-40.0	15.8	Horizontal	PK	PASS
1594.5393	-58.05	-55.53	2.5	-40.0	15.5	Horizontal	PK	PASS
1598.3917	-57.31	-54.80	2.5	-40.0	14.8	Horizontal	PK	PASS
1605.4842	-57.64	-55.13	2.5	-40.0	15.1	Horizontal	PK	PASS



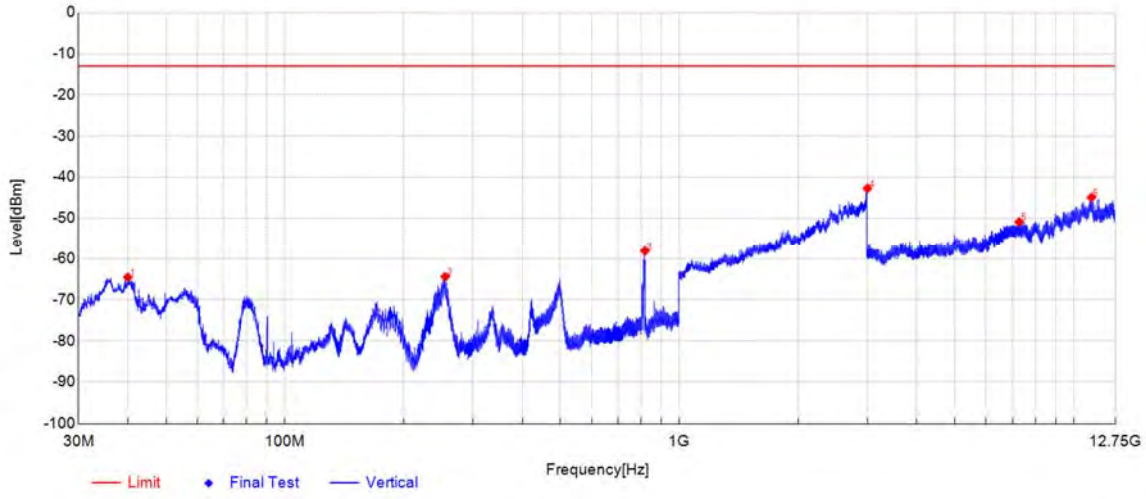
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
1561.8829	-58.74	-56.10	2.6	-40.0	16.1	Vertical	PK	PASS
1573.3382	-58.88	-56.43	2.5	-40.0	16.4	Vertical	PK	PASS
1583.4157	-58.53	-56.15	2.4	-40.0	16.2	Vertical	PK	PASS
1593.3147	-58.45	-55.94	2.5	-40.0	15.9	Vertical	PK	PASS
1596.7334	-58.02	-55.47	2.6	-40.0	15.5	Vertical	PK	PASS
1608.7499	-58.17	-55.48	2.7	-40.0	15.5	Vertical	PK	PASS

LTE Band 18

Plot for Low Channel

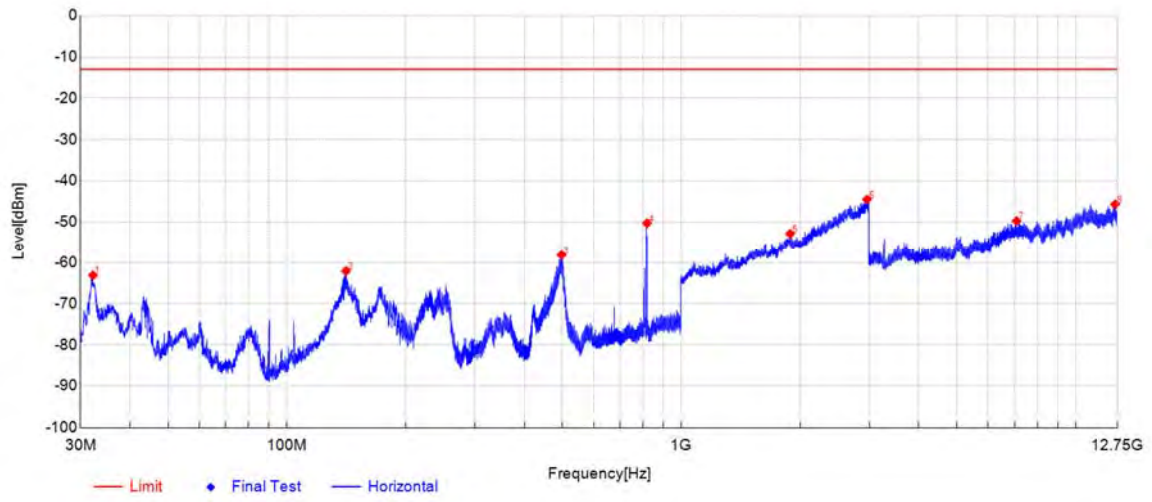


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
141.6526	-38.39	-63.96	-25.6	-13.0	51.0	Horizontal	PK	PASS
497.5634	-46.70	-58.39	-11.7	-13.0	45.4	Horizontal	PK	PASS
818.9404	-44.98	-50.87	-5.9	-	-	Horizontal	PK	NA
2949.5899	-59.35	-44.48	14.9	-13.0	31.5	Horizontal	PK	PASS
7097.6424	-61.90	-49.78	12.1	-13.0	36.8	Horizontal	PK	PASS
12557.915	-69.12	-45.81	23.3	-13.0	32.8	Horizontal	PK	PASS

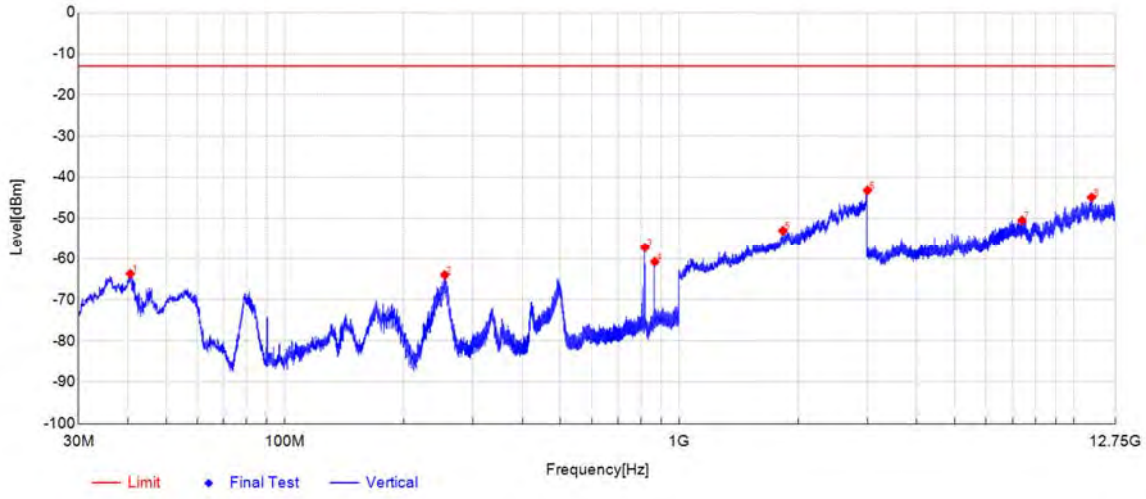


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
39.9915	-42.69	-64.54	-21.9	-13.0	51.5	Vertical	PK	PASS
254.9542	-46.43	-64.39	-18.0	-13.0	51.4	Vertical	PK	PASS
818.3099	-52.28	-58.09	-5.8	-	-	Vertical	PK	NA
2998.7998	-59.83	-42.70	17.1	-13.0	29.7	Vertical	PK	PASS
7272.6636	-62.81	-50.89	11.9	-13.0	37.9	Vertical	PK	PASS
11089.979	-67.30	-44.93	22.4	-13.0	31.9	Vertical	PK	PASS

Plot for Mid Channel

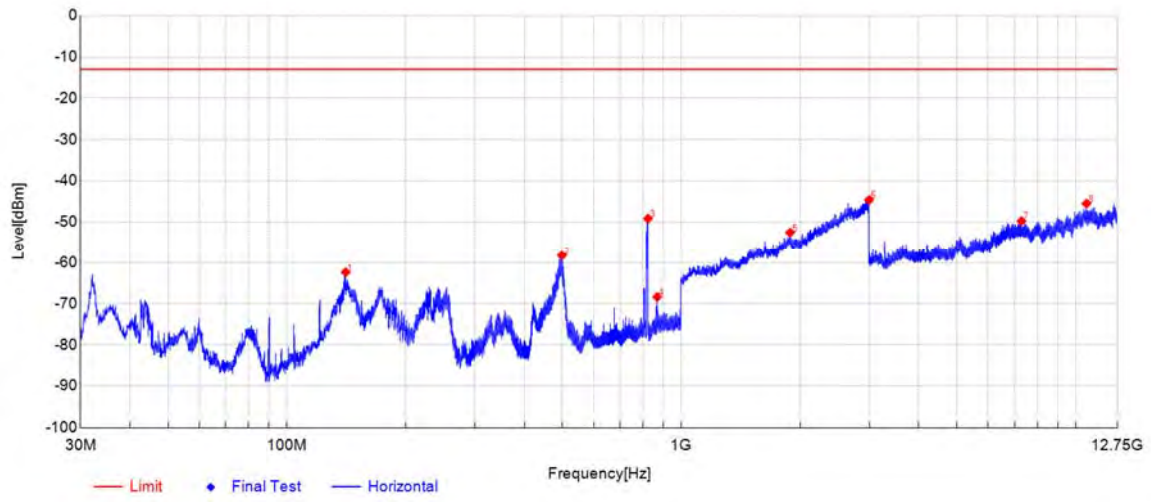


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
32.2311	-47.90	-63.08	-15.2	-13.0	50.1	Horizontal	PK	PASS
141.1676	-36.49	-62.09	-25.6	-13.0	49.1	Horizontal	PK	PASS
497.1269	-46.40	-58.12	-11.7	-13.0	45.1	Horizontal	PK	PASS
818.9889	-44.36	-50.25	-5.9	-	-	Horizontal	PK	NA
1887.7776	-58.59	-52.82	5.8	-13.0	39.8	Horizontal	PK	PASS
2956.3913	-59.61	-44.48	15.1	-13.0	31.5	Horizontal	PK	PASS
7080.0915	-61.74	-49.71	12.0	-13.0	36.7	Horizontal	PK	PASS
12589.604	-68.91	-45.67	23.2	-13.0	32.7	Horizontal	PK	PASS

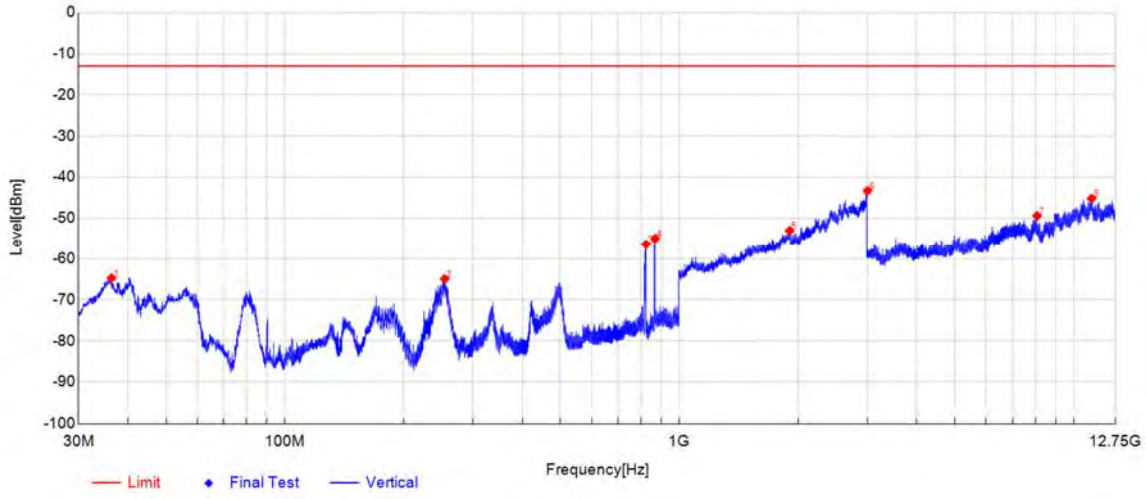


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.5735	-42.04	-63.70	-21.7	-13.0	50.7	Vertical	PK	PASS
254.4207	-45.99	-63.97	-18.0	-13.0	51.0	Vertical	PK	PASS
819.0375	-51.38	-57.20	-5.8	-	-	Vertical	PK	NA
866.6668	-55.80	-60.76	-5.0	-	-	Vertical	PK	NA
1830.5661	-58.43	-53.02	5.4	-13.0	40.0	Vertical	PK	PASS
3000	-60.47	-43.21	17.3	-13.0	30.2	Vertical	PK	PASS
7400.395	-62.21	-50.51	11.7	-13.0	37.5	Vertical	PK	PASS
11098.754	-67.29	-44.89	22.4	-13.0	31.9	Vertical	PK	PASS

Plot for High Channel



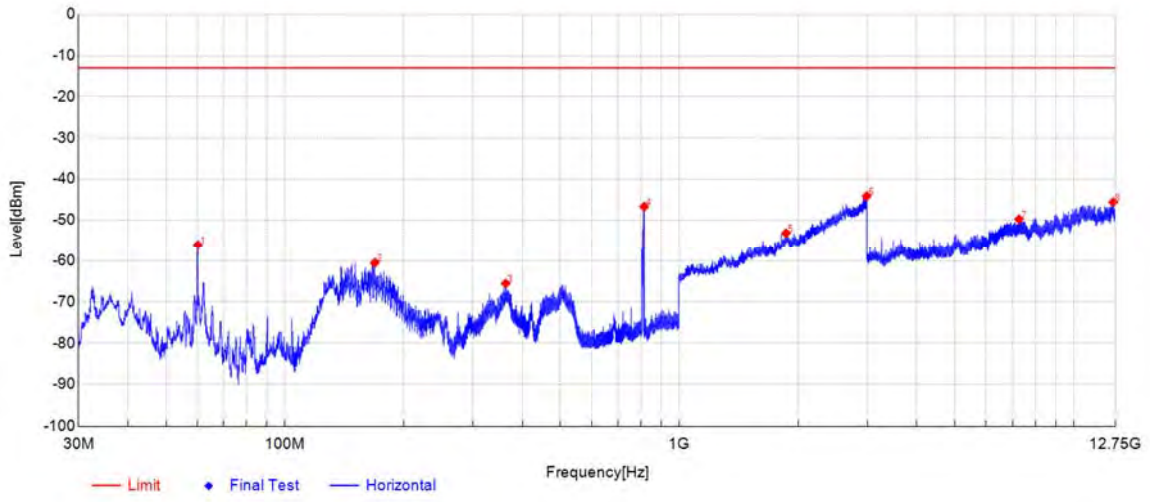
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
140.925	-36.74	-62.34	-25.6	-13.0	49.3	Horizontal	PK	PASS
498.0484	-46.59	-58.25	-11.7	-13.0	45.3	Horizontal	PK	PASS
823.1117	-43.30	-49.12	-5.8	-	-	Horizontal	PK	NA
868.6069	-63.50	-68.37	-4.9	-	-	Horizontal	PK	NA
1888.1776	-58.29	-52.53	5.8	-13.0	39.5	Horizontal	PK	PASS
2993.1986	-59.52	-44.61	14.9	-13.0	31.6	Horizontal	PK	PASS
7288.2644	-62.38	-49.71	12.7	-13.0	36.7	Horizontal	PK	PASS
10650.232	-64.67	-45.47	19.2	-13.0	32.5	Horizontal	PK	PASS



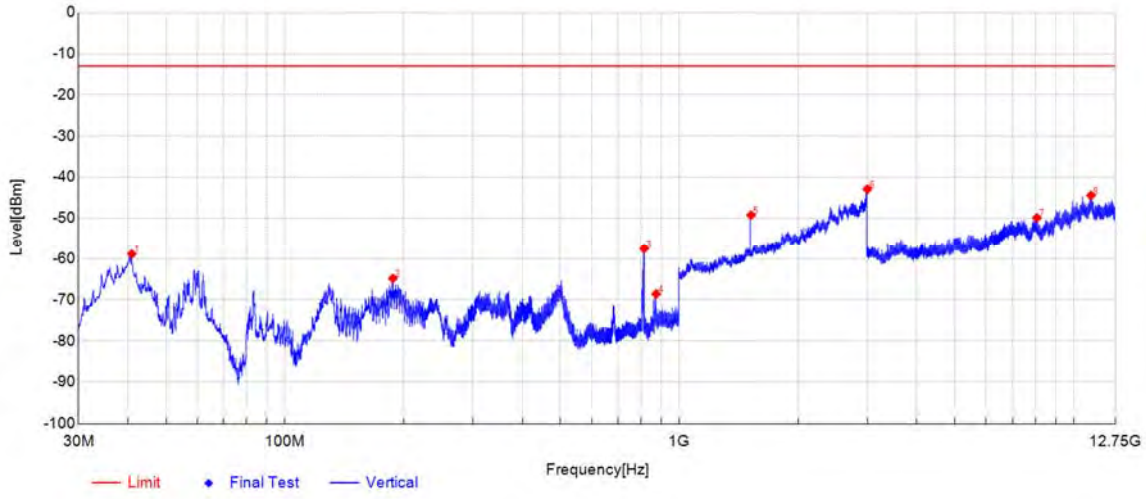
Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
36.3538	-41.64	-64.71	-23.1	-13.0	51.7	Vertical	PK	PASS
254.1782	-46.98	-64.96	-18.0	-13.0	52.0	Vertical	PK	PASS
823.4027	-50.53	-56.41	-5.9	-	-	Vertical	PK	NA
868.3644	-50.07	-54.97	-4.9	-	-	Vertical	PK	NA
1903.7808	-58.93	-53.04	5.9	-13.0	40.0	Vertical	PK	PASS
3000	-60.56	-43.30	17.3	-13.0	30.3	Vertical	PK	PASS
8075.1288	-62.39	-49.39	13.0	-13.0	36.4	Vertical	PK	PASS
11101.680	-67.55	-45.17	22.4	-13.0	32.2	Vertical	PK	PASS

LTE Band 26

Plot for Low Channel

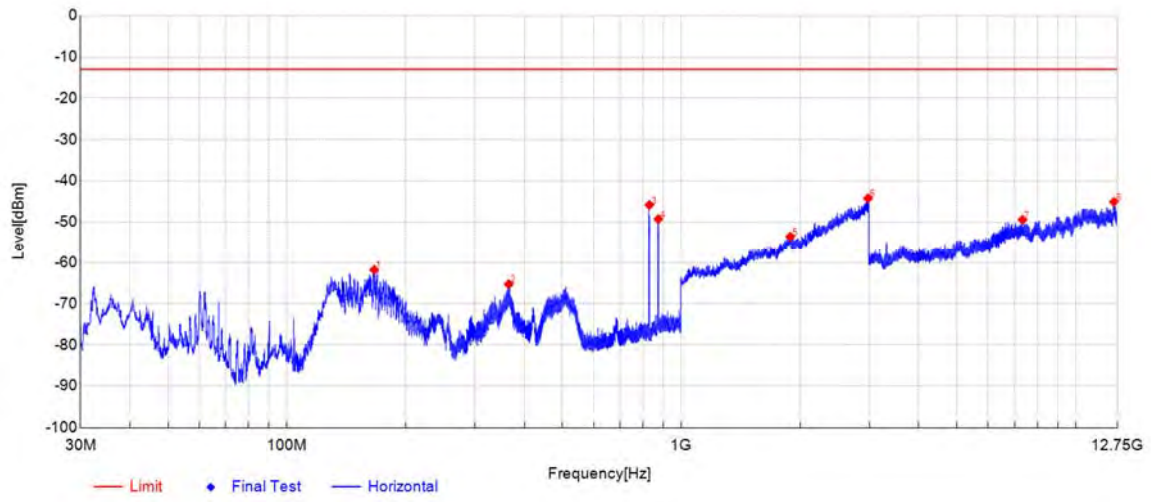


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
60.1685	-38.92	-56.09	-17.2	-13.0	43.1	Horizontal	PK	PASS
169.0565	-37.74	-60.50	-22.8	-13.0	47.5	Horizontal	PK	PASS
363.0662	-50.24	-65.55	-15.3	-13.0	52.6	Horizontal	PK	PASS
814.7692	-40.73	-46.68	-6.0	-	-	Horizontal	PK	NA
1865.3731	-58.65	-53.18	5.5	-13.0	40.2	Horizontal	PK	PASS
2985.5971	-58.89	-44.13	14.8	-13.0	31.1	Horizontal	PK	PASS
7269.251	-62.27	-49.74	12.5	-13.0	36.7	Horizontal	PK	PASS
12590.579	-68.84	-45.60	23.2	-13.0	32.6	Horizontal	PK	PASS

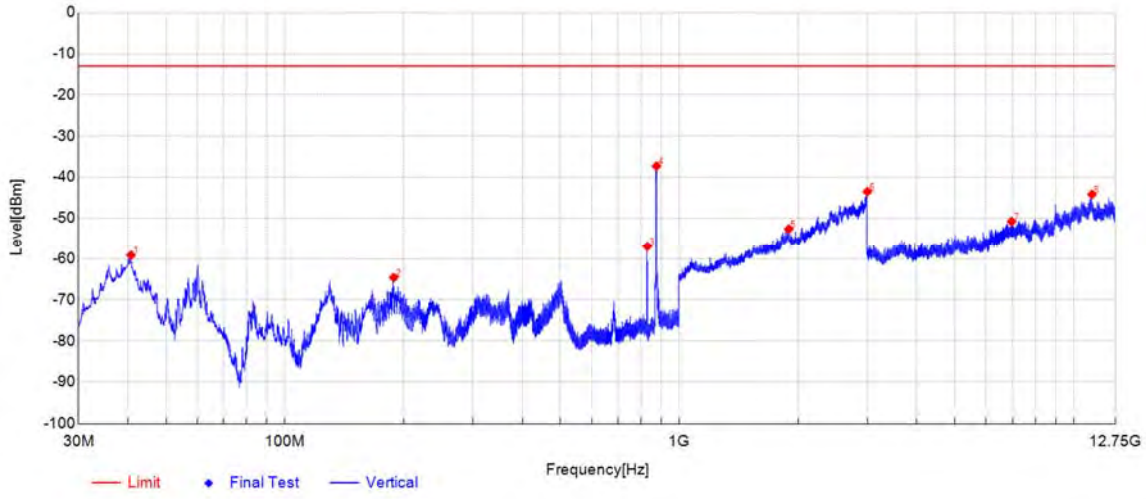


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.913	-37.32	-58.86	-21.5	-13.0	45.9	Vertical	PK	PASS
187.8754	-42.85	-64.83	-22.0	-13.0	51.8	Vertical	PK	PASS
814.9147	-51.77	-57.52	-5.8	-	-	Vertical	PK	NA
873.5057	-63.89	-68.60	-4.7	-	-	Vertical	PK	NA
1520.5041	-51.02	-49.21	1.8	-13.0	36.2	Vertical	PK	PASS
2999.1998	-60.05	-42.88	17.2	-13.0	29.9	Vertical	PK	PASS
8068.3034	-62.85	-49.85	13.0	-13.0	36.9	Vertical	PK	PASS
11061.215	-66.67	-44.42	22.3	-13.0	31.4	Vertical	PK	PASS

Plot for Mid Channel

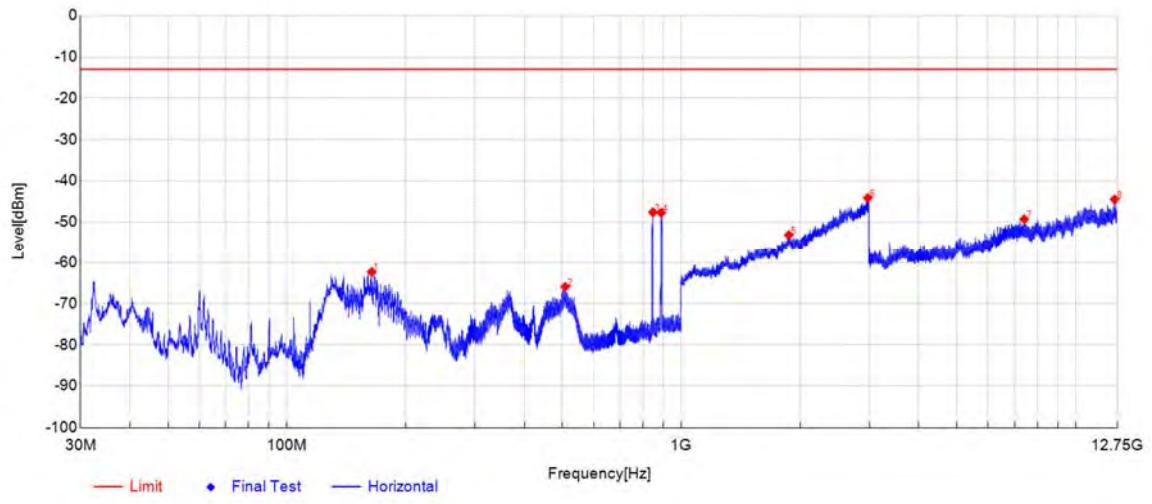


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
166.5343	-38.57	-61.74	-23.2	-13.0	48.7	Horizontal	PK	PASS
365.2973	-50.08	-65.26	-15.2	-13.0	52.3	Horizontal	PK	PASS
830.2415	-40.10	-45.80	-5.7	-	-	Horizontal	PK	NA
874.4272	-44.43	-49.23	-4.8	-	-	Horizontal	PK	NA
1889.3779	-59.23	-53.51	5.7	-13.0	40.5	Horizontal	PK	PASS
2974.795	-59.00	-44.21	14.8	-13.0	31.2	Horizontal	PK	PASS
7329.2165	-62.09	-49.41	12.7	-13.0	36.4	Horizontal	PK	PASS
12503.312	-68.51	-45.08	23.4	-13.0	32.1	Horizontal	PK	PASS

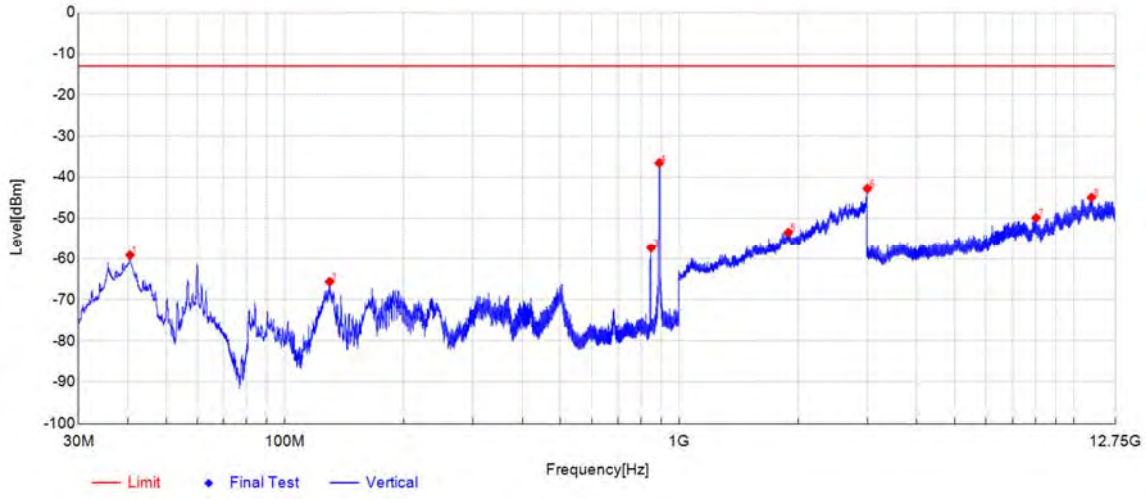


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.719	-37.52	-59.12	-21.6	-13.0	46.1	Vertical	PK	PASS
188.8454	-42.65	-64.58	-21.9	-13.0	51.6	Vertical	PK	PASS
830.29	-50.96	-56.93	-6.0	-	-	Vertical	PK	NA
875.4458	-32.65	-37.29	-4.6	-	-	Vertical	PK	NA
1894.979	-58.51	-52.62	5.9	-13.0	39.6	Vertical	PK	PASS
2997.1994	-60.47	-43.52	17.0	-13.0	30.5	Vertical	PK	PASS
6959.673	-61.76	-50.79	11.0	-13.0	37.8	Vertical	PK	PASS
11123.618	-66.26	-44.18	22.1	-13.0	31.2	Vertical	PK	PASS

Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
164.2062	-38.72	-62.27	-23.6	-13.0	49.3	Horizontal	PK	PASS
507.5549	-54.44	-65.89	-11.5	-13.0	52.9	Horizontal	PK	PASS
847.7509	-42.37	-47.59	-5.2	-	-	Horizontal	PK	NA
889.6085	-43.00	-47.70	-4.7	-	-	Horizontal	PK	NA
1873.7748	-58.96	-53.13	5.8	-13.0	40.1	Horizontal	PK	PASS
2970.3941	-59.00	-44.11	14.9	-13.0	31.1	Horizontal	PK	PASS
7402.8326	-61.77	-49.27	12.5	-13.0	36.3	Horizontal	PK	PASS
12554.990	-67.78	-44.47	23.3	-13.0	31.5	Horizontal	PK	PASS



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
40.4765	-37.44	-59.13	-21.7	-13.0	46.1	Vertical	PK	PASS
129.7695	-46.68	-65.62	-18.9	-13.0	52.6	Vertical	PK	PASS
848.5269	-51.78	-57.31	-5.5	-	-	Vertical	PK	NA
889.6085	-32.12	-36.57	-4.5	-	-	Vertical	PK	NA
1890.178	-59.35	-53.45	5.9	-13.0	40.5	Vertical	PK	PASS
2999.1998	-59.93	-42.76	17.2	-13.0	29.8	Vertical	PK	PASS
8032.7141	-62.88	-49.87	13.0	-13.0	36.9	Vertical	PK	PASS
11092.904	-67.29	-44.91	22.4	-13.0	31.9	Vertical	PK	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	±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 C63.10-2013and CISPR Publication 22; the FCC designation number is CN1192, the test firm registration number is 226174.

4. Test Equipments 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	2024.09.11	2025.09.10
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2024.09.11	2025.09.10

4.2 List of Software Used

Description	Manufacturer	Software Version
Morlab FCC LTE Test System	MORLAB	V7.99
TS+ -[JS36-RSE]	Tonscend	5.0.0

4.3 Radiated Test Equipments

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Receiver	MY54130016	N9038A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2024.06.22	2025.06.21
RF Coaxial Cable (DC-18GHz)	MRE001	PE330	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE002	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-18GHz)	MRE003	CLU18	Pasternack	2024.05.30	2025.05.29
RF Coaxial Cable (DC-40GHz)	22290045	QA360-40-KK-0.5	Qualwave	2024.07.03	2025.07.02
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KKF-2	Qualwave	2024.07.03	2025.07.02
Preamplifier (10MHz-6GHz)	46732	S10M100L3802	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L3203	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-40C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCGV -LTE B14	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B18	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE B26	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2025.04.19	2028.04.18
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.11.30	2025.11.29

END OF REPORT