



REPORT No.: SZ24050196W07

TEST REPORT

APPLICANT : POCKETALK CORPORATION

PRODUCT NAME : POCKETALK S2 Plus

MODEL NAME : PTS2P

BRAND NAME : POCKETALK

FCC ID : 2BGXA-PTS2P

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

RECEIPT DATE : 2024-05-29

TEST DATE : 2024-06-04 to 2024-07-18

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Edited by:

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DIRECTORY

1. Technical Information	3
1.1. Applicant and Manufacturer Information	3
1.2. Equipment Under Test (EUT) Description	3
1.3. Maximum E.R.P./E.I.R.P. and Emission Designator	5
1.4. Test Standards and Results	6
1.5. Environmental Conditions	7
2. 47 CFR Part 2, Part 90S Requirements	8
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.	8
2.2. Occupied Bandwidth	19
2.3. Frequency Stability	31
2.4. Conducted Spurious Emissions	33
2.5. Band Edge	37
2.6. Radiated Spurious Emissions	42
Annex A Test Uncertainty	51
Annex B Testing Laboratory Information	52

Change History		
Version	Date	Reason for change
1.0	2024-08-12	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	POCKETALK CORPORATION
Applicant Address:	4F Hamamatsucho PREX, 2-2-12 Shiba, Minato-ku, Tokyo 105-0014, Japan
Manufacturer:	JENESIS (SHEN ZHEN) CO., LTD.
Manufacturer Address:	6th Floor, Building A, No.2 Luozhu Industrial Avenue, Luozhu Community, Shiyan Street, Bao'an District, Shenzhen City, Guangdong Province.

1.2. Equipment Under Test (EUT) Description

Product Name:	POCKETALK S2 Plus	
Sample No.:	7#	
Hardware Version:	V1.0	
Software Version:	V1.0.5	
Modulation Type:	QPSK, 16QAM, 64QAM	
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:	PIFA Internal Antenna	
Antenna Gain:	LTE Band 18	0.48dBi
	LTE Band 26	0.78dBi

Accessory Information:	Battery	
	Brand Name:	N/A
	Model No.:	PT305070
	Serial No.:	N/A
	Capacity:	1550mAh
	Rated Voltage:	3.8V
	Charge Limit:	4.35V
	Manufacturer:	Guangdong Pow-Tech New Power Co., Ltd.
	AC Adapter 1	
	Brand Name:	FLYPOWER
	Model No.:	PS06CA050K1000UU
	Serial No.:	N/A
	Rated Output:	5V $\overline{=}$ 1A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.25A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.
	AC Adapter 2	
	Brand Name:	FLYPOWER
	Model No.:	PS06CA050K1000JU
	Serial No.:	N/A
	Rated Output:	5V $\overline{=}$ 1A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.25A
	Manufacturer:	Shenzhen Flypower Technology Co., Ltd.
	USB Cable	
	Model No.:	N/A
	Manufacturer:	Guangdong Pow-Tech New Power Co., Ltd.

Note 1: 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 18	Maximum E.R.P./E.I.R.P. (W)			Emission Designator (99%OBW)		
BW(MHz)	QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
5	0.132	0.112	0.088	4M49G7D	4M48W7D	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	0.163	0.140	0.104	8M97G7D	8M94W7D	8M97W7D
5	0.161	0.140	0.108	4M48G7D	4M48W7D	4M48W7D
3	0.160	0.125	0.100	2M69G7D	2M69W7D	2M70W7D
1.4	0.145	0.118	0.096	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	Method Determination /Remark
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Jun. 17, 2024	Yu Xiaoming Gan Jing	PASS	No deviation
90.209	Occupied Bandwidth	Jun. 14, 2024	Gan Jing	PASS	No deviation
2.1055, 90.213	Frequency Stability	Jun. 14, 2024	Gan Jing	PASS	No deviation
2.1051, 90.691	Conducted Spurious Emissions	Jun. 14, 2024	Gan Jing	PASS	No deviation
2.1051, 90.691	Band Edge	Jun. 14, 2024	Gan Jing	PASS	No deviation
2.1053, 90.691	Radiated Spurious Emissions	Jun. 09, 2024 to Jul. 18, 2024	Li Hanbin	PASS	No deviation

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: Additions to, deviation, or exclusions from the method shall be judged in the "method determination" column of add, deviate or exclude from the specific method shall be explained in the "Remark" of the above table.

Note 3: When the test result is a critical value, we will use the measurement uncertainty give the judgment result based on the 95% confidence intervals.



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

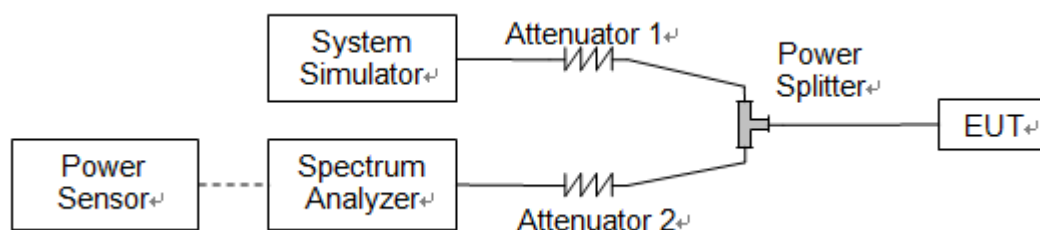
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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.

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

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

**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	23.01	23.05	23.01
5	QPSK	1	12	23.40	23.34	23.32
5	QPSK	1	24	23.09	23.02	22.99
5	QPSK	12	0	22.10	22.00	22.21
5	QPSK	12	7	22.29	22.07	22.29
5	QPSK	12	13	22.16	22.28	22.06
5	QPSK	25	0	22.31	22.23	22.25
5	16QAM	1	0	21.99	22.36	22.33
5	16QAM	1	12	22.18	22.70	22.56
5	16QAM	1	24	22.05	22.32	22.24
5	16QAM	12	0	21.23	21.26	21.17
5	16QAM	12	7	21.30	21.19	21.29
5	16QAM	12	13	21.26	21.18	21.29
5	16QAM	25	0	21.30	21.26	21.19
5	64QAM	1	0	20.60	21.14	21.11
5	64QAM	1	12	21.11	21.30	21.40
5	64QAM	1	24	20.64	21.22	21.07
5	64QAM	12	0	20.28	20.25	20.26
5	64QAM	12	7	20.36	20.35	20.29
5	64QAM	12	13	20.22	20.30	20.27
5	64QAM	25	0	20.28	20.24	20.21



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	/	23.12	/
10	QPSK	1	25	/	23.32	/
10	QPSK	1	49	/	23.15	/
10	QPSK	25	0	/	22.34	/
10	QPSK	25	12	/	22.34	/
10	QPSK	25	25	/	22.38	/
10	QPSK	50	0	/	22.25	/
10	16QAM	1	0	/	22.22	/
10	16QAM	1	25	/	22.35	/
10	16QAM	1	49	/	22.22	/
10	16QAM	25	0	/	21.32	/
10	16QAM	25	12	/	21.32	/
10	16QAM	25	25	/	21.12	/
10	16QAM	50	0	/	21.36	/
10	64QAM	1	0	/	20.99	/
10	64QAM	1	25	/	21.27	/
10	64QAM	1	49	/	21.17	/
10	64QAM	25	0	/	20.32	/
10	64QAM	25	12	/	20.32	/
10	64QAM	25	25	/	20.36	/
10	64QAM	50	0	/	20.37	/



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	23.10	23.08	23.15
5	QPSK	1	12	23.40	23.37	23.36
5	QPSK	1	24	23.14	23.11	23.14
5	QPSK	12	0	22.28	22.29	22.13
5	QPSK	12	7	22.36	22.35	22.20
5	QPSK	12	13	22.29	22.30	22.17
5	QPSK	25	0	22.33	22.36	22.35
5	16QAM	1	0	22.09	22.15	22.02
5	16QAM	1	12	22.14	22.24	22.27
5	16QAM	1	24	22.07	22.06	22.01
5	16QAM	12	0	21.32	21.32	21.19
5	16QAM	12	7	21.33	21.34	21.29
5	16QAM	12	13	21.21	21.36	21.31
5	16QAM	25	0	21.30	21.34	21.31
5	64QAM	1	0	20.73	20.80	20.77
5	64QAM	1	12	21.29	21.17	21.01
5	64QAM	1	24	20.85	20.70	20.70
5	64QAM	12	0	20.34	20.34	20.28
5	64QAM	12	7	20.39	20.43	20.37
5	64QAM	12	13	20.36	20.39	20.28
5	64QAM	25	0	20.28	20.33	20.30



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	23.20	23.11	23.19
3	QPSK	1	8	23.22	23.22	23.17
3	QPSK	1	14	23.24	23.22	23.21
3	QPSK	8	0	22.31	22.22	22.28
3	QPSK	8	4	22.30	22.29	22.30
3	QPSK	8	7	22.31	22.18	22.18
3	QPSK	15	0	22.32	22.27	22.31
3	16QAM	1	0	22.22	22.42	22.36
3	16QAM	1	8	22.13	22.46	22.27
3	16QAM	1	14	22.17	22.48	22.22
3	16QAM	8	0	21.28	21.39	21.34
3	16QAM	8	4	21.29	21.37	21.33
3	16QAM	8	7	21.23	21.37	21.27
3	16QAM	15	0	21.29	21.33	21.17
3	64QAM	1	0	21.24	21.39	21.27
3	64QAM	1	8	21.28	21.29	21.27
3	64QAM	1	14	21.18	21.18	21.21
3	64QAM	8	0	20.34	20.33	20.29
3	64QAM	8	4	20.32	20.33	20.24
3	64QAM	8	7	20.30	20.33	20.33
3	64QAM	15	0	20.30	20.31	20.28



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	23.14	23.18	23.04
1.4	QPSK	1	3	23.24	23.30	23.24
1.4	QPSK	1	5	23.17	23.21	23.14
1.4	QPSK	3	0	23.22	23.25	23.20
1.4	QPSK	3	1	23.27	23.30	23.23
1.4	QPSK	3	3	23.25	23.28	23.22
1.4	QPSK	6	0	22.36	22.34	22.31
1.4	16QAM	1	0	21.99	22.19	22.06
1.4	16QAM	1	3	22.08	22.36	22.17
1.4	16QAM	1	5	21.95	22.13	22.10
1.4	16QAM	3	0	22.27	22.23	22.34
1.4	16QAM	3	1	22.37	22.18	22.34
1.4	16QAM	3	3	22.28	22.19	22.28
1.4	16QAM	6	0	21.25	21.18	21.25
1.4	64QAM	1	0	20.85	21.19	20.79
1.4	64QAM	1	3	21.15	21.26	21.11
1.4	64QAM	1	5	20.76	21.28	20.93
1.4	64QAM	3	0	21.22	21.33	21.31
1.4	64QAM	3	1	21.29	21.40	21.27
1.4	64QAM	3	3	21.38	21.39	21.29
1.4	64QAM	6	0	20.24	20.24	20.24

**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				23875		23895		23915	
Frequency (MHz)				817.5		819.5		821.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	20.89	0.123	21.03	0.127	21.02	0.126
5	QPSK	1	12	21.20	0.132	21.20	0.132	21.19	0.132
5	QPSK	1	24	20.70	0.117	21.00	0.126	20.98	0.125
5	QPSK	12	0	20.13	0.103	20.12	0.103	20.14	0.103
5	QPSK	12	7	20.27	0.106	20.11	0.103	20.22	0.105
5	QPSK	12	13	20.23	0.105	20.15	0.104	20.12	0.103
5	QPSK	25	0	20.20	0.105	20.18	0.104	20.18	0.104
5	16QAM	1	0	20.02	0.100	20.30	0.107	20.29	0.107
5	16QAM	1	12	20.40	0.110	20.51	0.112	20.45	0.111
5	16QAM	1	24	19.99	0.100	20.23	0.105	20.24	0.106
5	16QAM	12	0	19.14	0.082	19.13	0.082	19.14	0.082
5	16QAM	12	7	19.28	0.085	19.25	0.084	19.15	0.082
5	16QAM	12	13	19.15	0.082	19.17	0.083	19.12	0.082
5	16QAM	25	0	19.00	0.079	19.14	0.082	19.14	0.082
5	64QAM	1	0	18.73	0.075	18.93	0.078	18.96	0.079
5	64QAM	1	12	18.93	0.078	19.44	0.088	19.30	0.085
5	64QAM	1	24	18.70	0.074	18.89	0.077	18.96	0.079
5	64QAM	12	0	18.25	0.067	18.21	0.066	18.21	0.066
5	64QAM	12	7	18.37	0.069	18.31	0.068	18.28	0.067
5	64QAM	12	13	18.31	0.068	18.26	0.067	18.22	0.066
5	64QAM	25	0	18.19	0.066	18.19	0.066	18.15	0.065



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	/	21.81	0.152	/
10	QPSK	1	25	/	22.12	0.163	/
10	QPSK	1	49	/	21.97	0.157	/
10	QPSK	25	0	/	20.98	0.125	/
10	QPSK	25	12	/	21.06	0.128	/
10	QPSK	25	25	/	21.14	0.130	/
10	QPSK	50	0	/	21.05	0.127	/
10	16QAM	1	0	/	21.27	0.134	/
10	16QAM	1	25	/	21.45	0.140	/
10	16QAM	1	49	/	21.28	0.134	/
10	16QAM	25	0	/	20.06	0.101	/
10	16QAM	25	12	/	20.06	0.101	/
10	16QAM	25	25	/	20.02	0.100	/
10	16QAM	50	0	/	20.05	0.101	/
10	64QAM	1	0	/	20.16	0.104	/
10	64QAM	1	25	/	20.05	0.101	/
10	64QAM	1	49	/	20.08	0.102	/
10	64QAM	25	0	/	19.04	0.080	/
10	64QAM	25	12	/	19.14	0.082	/
10	64QAM	25	25	/	19.12	0.082	/
10	64QAM	50	0	/	19.09	0.081	/



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	21.87	0.154	21.78	0.151	21.83	0.152
5	QPSK	1	12	22.03	0.160	21.96	0.157	22.08	0.161
5	QPSK	1	24	21.93	0.156	21.79	0.151	21.78	0.151
5	QPSK	12	0	20.85	0.122	20.74	0.119	21.09	0.129
5	QPSK	12	7	21.02	0.126	20.93	0.124	20.95	0.124
5	QPSK	12	13	21.14	0.130	20.74	0.119	20.93	0.124
5	QPSK	25	0	21.08	0.128	21.09	0.129	21.12	0.129
5	16QAM	1	0	21.21	0.132	21.08	0.128	21.21	0.132
5	16QAM	1	12	21.46	0.140	21.36	0.137	21.45	0.140
5	16QAM	1	24	21.32	0.136	21.07	0.128	21.13	0.130
5	16QAM	12	0	20.05	0.101	20.00	0.100	20.07	0.102
5	16QAM	12	7	20.20	0.105	20.14	0.103	20.12	0.103
5	16QAM	12	13	20.21	0.105	20.11	0.103	20.06	0.101
5	16QAM	25	0	20.13	0.103	20.08	0.102	20.08	0.102
5	64QAM	1	0	20.11	0.103	20.05	0.101	20.12	0.103
5	64QAM	1	12	20.33	0.108	19.94	0.099	20.13	0.103
5	64QAM	1	24	19.97	0.099	19.99	0.100	20.09	0.102
5	64QAM	12	0	19.02	0.080	19.01	0.080	19.11	0.081
5	64QAM	12	7	19.23	0.084	19.21	0.083	19.26	0.084
5	64QAM	12	13	19.20	0.083	19.10	0.081	19.16	0.082
5	64QAM	25	0	19.13	0.082	19.10	0.081	19.13	0.082



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	21.37	0.137	21.59	0.144	22.04	0.160
3	QPSK	1	8	21.47	0.140	21.52	0.142	22.00	0.158
3	QPSK	1	14	21.57	0.144	21.58	0.144	22.01	0.159
3	QPSK	8	0	20.41	0.110	20.63	0.116	21.16	0.131
3	QPSK	8	4	20.66	0.116	20.70	0.117	21.17	0.131
3	QPSK	8	7	20.68	0.117	20.60	0.115	21.15	0.130
3	QPSK	15	0	20.62	0.115	20.66	0.116	21.13	0.130
3	16QAM	1	0	20.66	0.116	20.80	0.120	20.92	0.124
3	16QAM	1	8	20.75	0.119	20.79	0.120	20.97	0.125
3	16QAM	1	14	20.75	0.119	20.66	0.116	20.88	0.122
3	16QAM	8	0	19.62	0.092	19.70	0.093	20.01	0.100
3	16QAM	8	4	19.71	0.094	19.72	0.094	20.15	0.104
3	16QAM	8	7	19.72	0.094	19.70	0.093	20.12	0.103
3	16QAM	15	0	19.65	0.092	19.69	0.093	20.11	0.103
3	64QAM	1	0	19.24	0.084	19.37	0.086	20.02	0.100
3	64QAM	1	8	19.32	0.086	19.24	0.084	19.87	0.097
3	64QAM	1	14	19.28	0.085	19.25	0.084	19.80	0.095
3	64QAM	8	0	18.73	0.075	18.77	0.075	19.12	0.082
3	64QAM	8	4	18.79	0.076	18.79	0.076	19.05	0.080
3	64QAM	8	7	18.80	0.076	18.76	0.075	19.09	0.081
3	64QAM	15	0	18.67	0.074	18.72	0.074	19.17	0.083



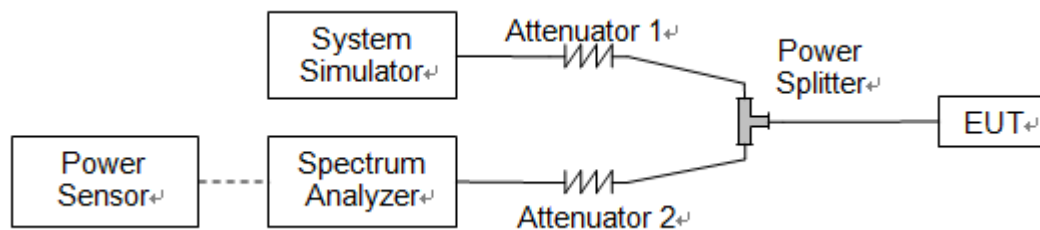
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	21.11	0.129	21.30	0.135	21.33	0.136
1.4	QPSK	1	3	21.53	0.142	21.56	0.143	21.44	0.139
1.4	QPSK	1	5	21.21	0.132	21.26	0.134	21.30	0.135
1.4	QPSK	3	0	21.54	0.143	21.58	0.144	21.50	0.141
1.4	QPSK	3	1	21.56	0.143	21.60	0.145	21.52	0.142
1.4	QPSK	3	3	21.50	0.141	21.55	0.143	21.47	0.140
1.4	QPSK	6	0	20.60	0.115	20.59	0.115	20.29	0.107
1.4	16QAM	1	0	20.51	0.112	20.57	0.114	20.58	0.114
1.4	16QAM	1	3	20.71	0.118	20.69	0.117	20.71	0.118
1.4	16QAM	1	5	20.43	0.110	20.55	0.114	20.52	0.113
1.4	16QAM	3	0	20.59	0.115	20.20	0.105	20.26	0.106
1.4	16QAM	3	1	20.63	0.116	20.27	0.106	20.44	0.111
1.4	16QAM	3	3	20.59	0.115	20.31	0.107	20.41	0.110
1.4	16QAM	6	0	19.65	0.092	19.68	0.093	19.67	0.093
1.4	64QAM	1	0	19.15	0.082	19.19	0.083	19.23	0.084
1.4	64QAM	1	3	19.19	0.083	19.24	0.084	19.25	0.084
1.4	64QAM	1	5	19.14	0.082	19.19	0.083	19.14	0.082
1.4	64QAM	3	0	19.72	0.094	19.69	0.093	19.69	0.093
1.4	64QAM	3	1	19.77	0.095	19.81	0.096	19.75	0.094
1.4	64QAM	3	3	19.71	0.094	19.65	0.092	19.71	0.094
1.4	64QAM	6	0	18.61	0.073	18.56	0.072	18.55	0.072

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 part90	5	Low	23875	817.5	QPSK	4.4834	4.9737	PASS
B18 part90	5	Low	23875	817.5	16QAM	4.4810	5.0721	PASS
B18 part90	5	Low	23875	817.5	64QAM	4.4960	5.0634	PASS
B18 part90	5	Mid	23895	819.5	QPSK	4.4853	5.0332	PASS
B18 part90	5	Mid	23895	819.5	16QAM	4.4793	4.9879	PASS
B18 part90	5	Mid	23895	819.5	64QAM	4.4908	4.9960	PASS
B18 part90	5	High	23915	821.5	QPSK	4.4793	5.0089	PASS
B18 part90	5	High	23915	821.5	16QAM	4.4754	5.0292	PASS
B18 part90	5	High	23915	821.5	64QAM	4.4902	5.0165	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	1.0964	1.2956	PASS
B26 Part90	1.4	Low	26697	814.7	16QAM	1.0976	1.2967	PASS
B26 Part90	1.4	Low	26697	814.7	64QAM	1.0982	1.2881	PASS
B26 Part90	1.4	Mid	26740	819	QPSK	1.0946	1.2844	PASS
B26 Part90	1.4	Mid	26740	819	16QAM	1.0966	1.2960	PASS
B26 Part90	1.4	Mid	26740	819	64QAM	1.0960	1.2884	PASS
B26 Part90	1.4	High	26783	823.3	QPSK	1.0961	1.2872	PASS
B26 Part90	1.4	High	26783	823.3	16QAM	1.0966	1.2921	PASS
B26 Part90	1.4	High	26783	823.3	64QAM	1.1002	1.2884	PASS
B26 Part90	3	Low	26705	815.5	QPSK	2.6843	2.9129	PASS
B26 Part90	3	Low	26705	815.5	16QAM	2.6881	2.9354	PASS
B26 Part90	3	Low	26705	815.5	64QAM	2.6972	2.9212	PASS
B26 Part90	3	Mid	26740	819	QPSK	2.6932	2.9119	PASS
B26 Part90	3	Mid	26740	819	16QAM	2.6884	2.9257	PASS
B26 Part90	3	Mid	26740	819	64QAM	2.6970	2.9170	PASS
B26 Part90	3	High	26775	822.5	QPSK	2.6874	2.9105	PASS
B26 Part90	3	High	26775	822.5	16QAM	2.6926	2.9341	PASS
B26	3	High	26775	822.5	64QAM	2.7004	2.9212	PASS



Part90								
B26 Part90	5	Low	26715	816.5	QPSK	4.4806	5.0015	PASS
B26 Part90	5	Low	26715	816.5	16QAM	4.4796	5.2314	PASS
B26 Part90	5	Low	26715	816.5	64QAM	4.4823	5.0536	PASS
B26 Part90	5	Mid	26740	819	QPSK	4.4766	5.0606	PASS
B26 Part90	5	Mid	26740	819	16QAM	4.4735	5.0693	PASS
B26 Part90	5	Mid	26740	819	64QAM	4.4798	5.0070	PASS
B26 Part90	5	High	26765	821.5	QPSK	4.4804	5.0225	PASS
B26 Part90	5	High	26765	821.5	16QAM	4.4737	5.0660	PASS
B26 Part90	5	High	26765	821.5	64QAM	4.4849	5.0349	PASS
B26 Part90	10	Low	26740	819	QPSK	8.9664	9.7375	PASS
B26 Part90	10	Low	26740	819	16QAM	8.9357	9.7928	PASS
B26 Part90	10	Low	26740	819	64QAM	8.9585	9.8515	PASS
B26 Part90	10	Mid	26740	819	QPSK	8.9674	9.8013	PASS
B26 Part90	10	Mid	26740	819	16QAM	8.9393	9.7858	PASS
B26 Part90	10	Mid	26740	819	64QAM	8.9677	9.8484	PASS
B26 Part90	10	High	26740	819	QPSK	8.9625	9.8869	PASS
B26 Part90	10	High	26740	819	16QAM	8.9289	9.7303	PASS
B26 Part90	10	High	26740	819	64QAM	8.9639	9.7908	PASS



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



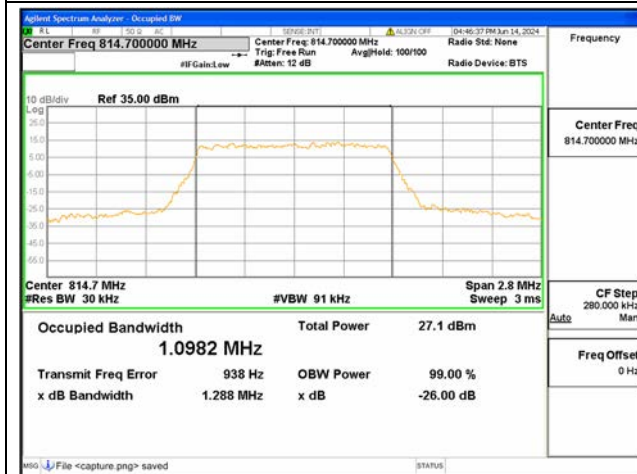
B18 part90 / 5MHz / 64QAM/ High CH



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



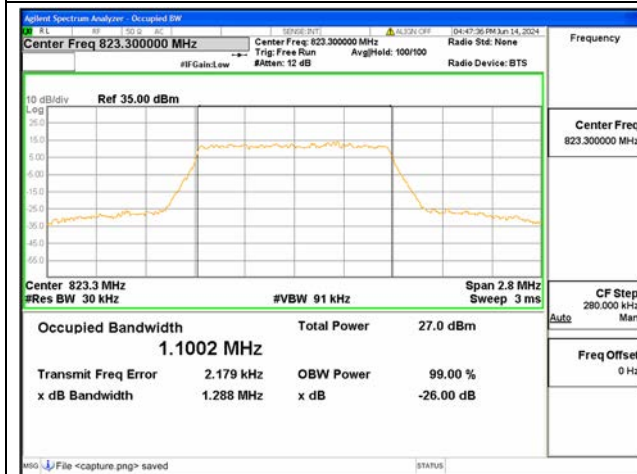
B26 Part90 / 1.4MHz / 64QAM/ Mid CH



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



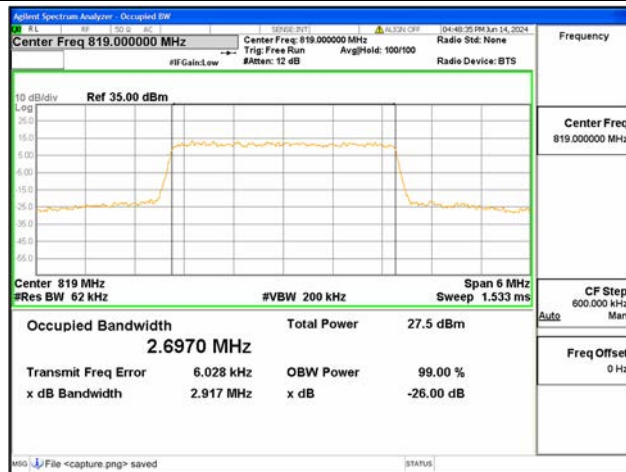
B26 Part90 / 3MHz / 64QAM/ Low CH



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



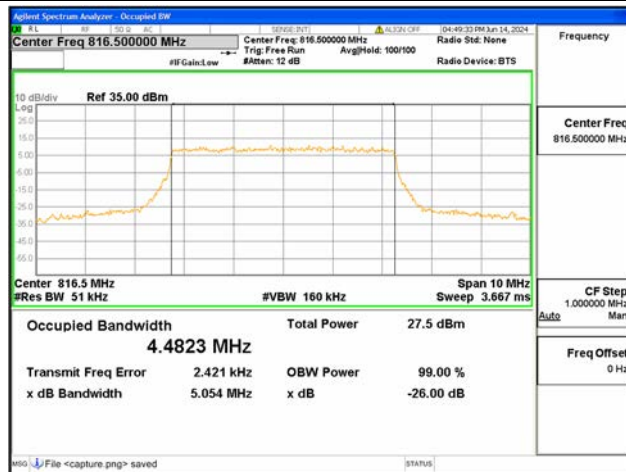
B26 Part90 / 3MHz / 64QAM/ High CH



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



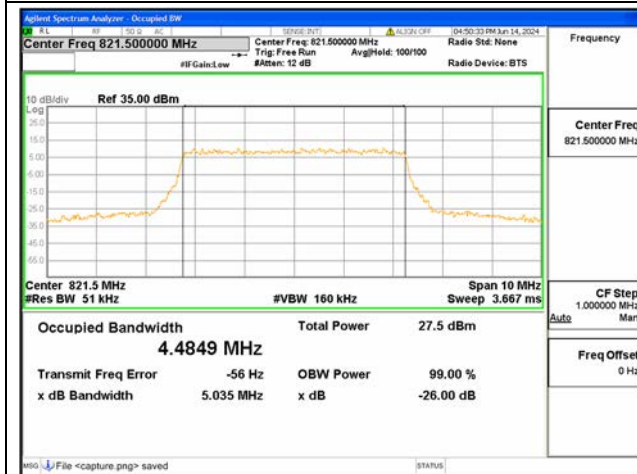
B26 Part90 / 5MHz / 64QAM/ Mid CH



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

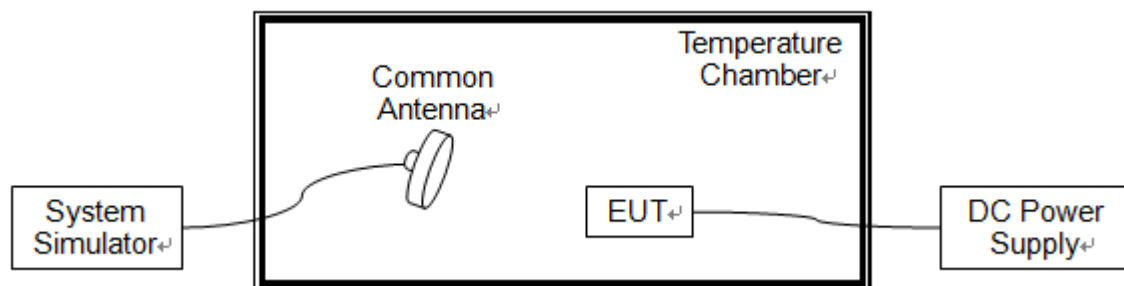
2.3.1. Requirement

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 40°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 3.80V, 4.35V and 3.00V, which are specified by the applicant; the normal temperature here used is 20°C.

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	3.80	+20(Ref)	15	0.018	PASS
Normal		0	-4	-0.005	
Normal		+10	13	0.016	
Normal		+20	20	0.024	
Normal		+30	13	0.016	
Normal		+40	-13	-0.016	
High	4.35	+20	5	0.006	
BATT.ENDPOINT	3.00	+20	17	0.021	

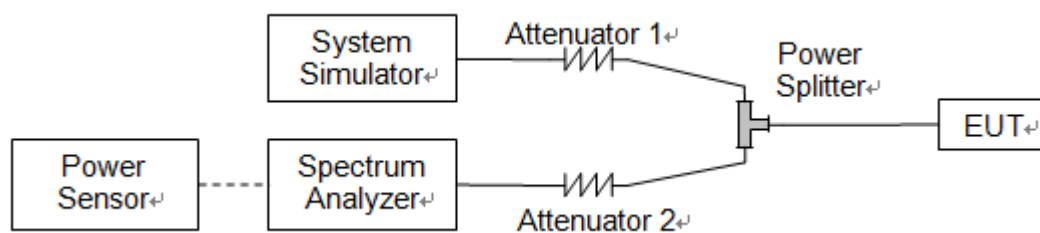
LTE Band 26, 64QAM, Channel 26740, Frequency 819MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp (°C)	Fre. Dev. (Hz)	Deviation (ppm)	Result
Normal	3.80	+20(Ref)	16	0.020	PASS
Normal		0	15	0.018	
Normal		+10	23	0.028	
Normal		+20	22	0.027	
Normal		+30	-8	-0.010	
Normal		+40	16	0.020	
High	4.35	+20	11	0.013	
BATT.ENDPOINT	3.00	+20	15	0.018	

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



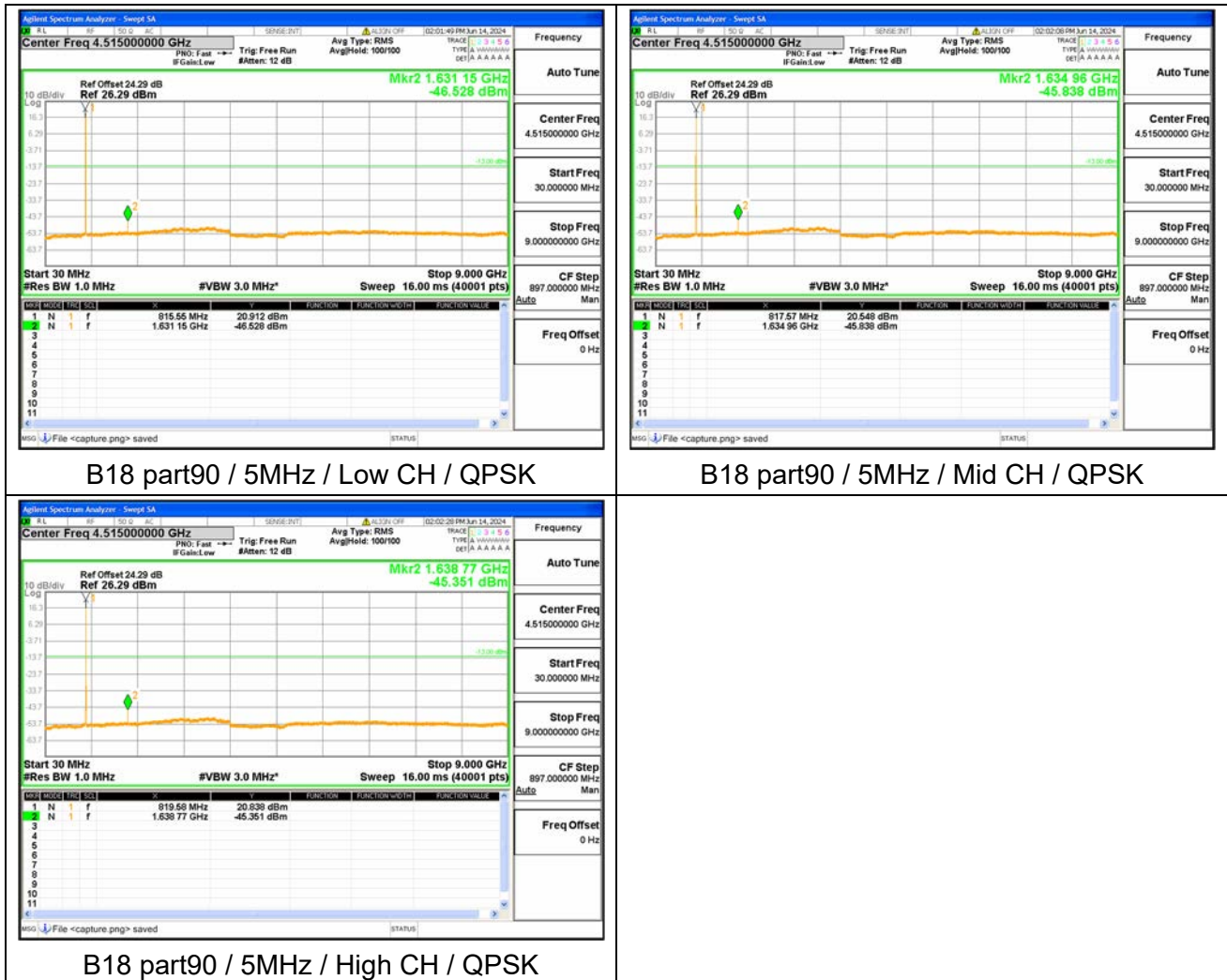
The EUT is coupled to the Spectrum Analyzer (SA) and the System Simulator (SS) with Attenuators through the Power Splitter; the RF load attached to the EUT antenna terminal is 50Ohm; the path loss as the factor is calibrated to correct the reading. The EUT is commanded by the SS to operate at the maximum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

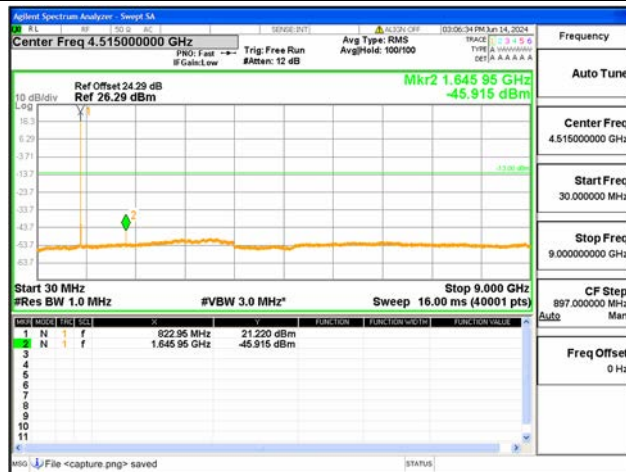




B26 Part90 / 1.4MHz / Low CH / QPSK



B26 Part90 / 1.4MHz / Mid CH / QPSK



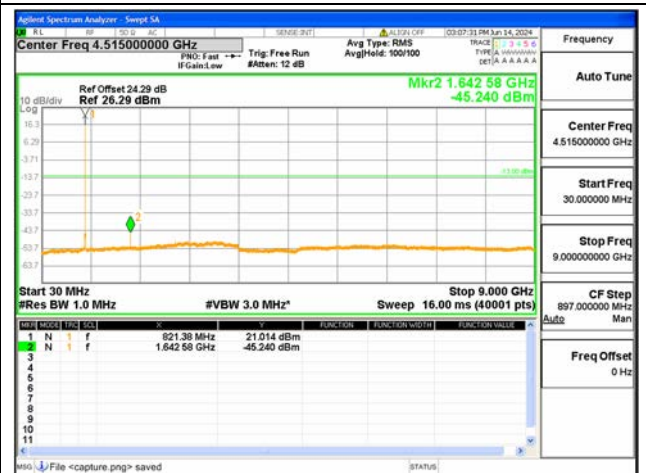
B26 Part90 / 1.4MHz / High CH / QPSK



B26 Part90 / 3MHz / Low CH / QPSK



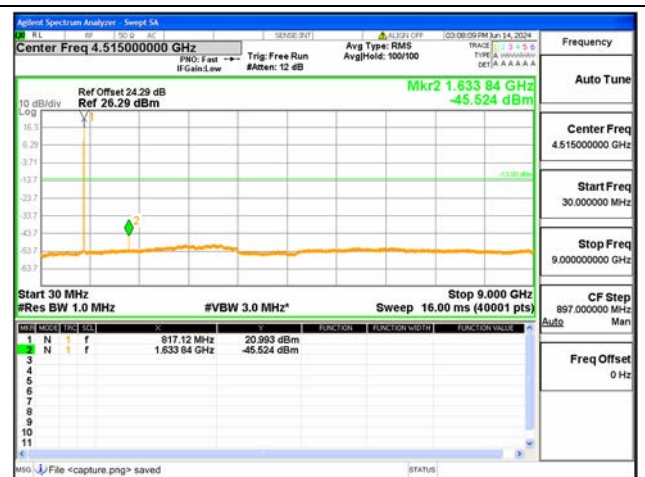
B26 Part90 / 3MHz / Mid CH / QPSK



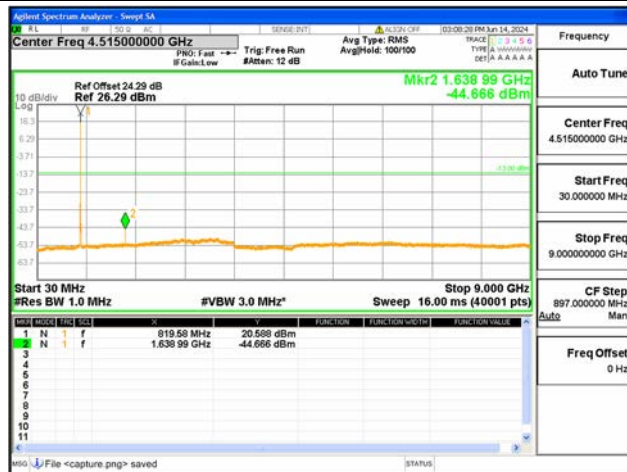
B26 Part90 / 3MHz / High CH / QPSK



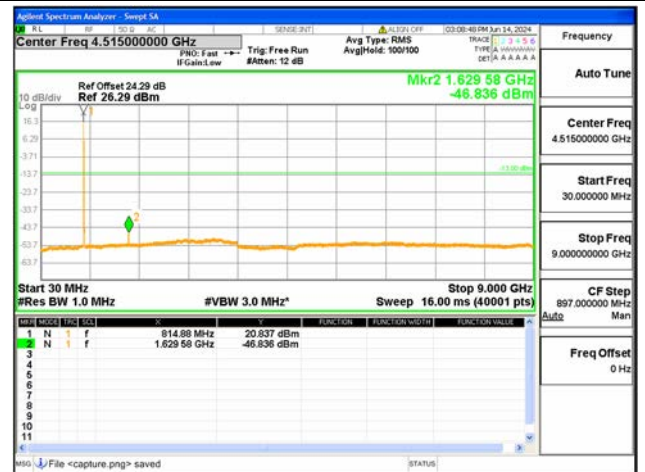
B26 Part90 / 5MHz / Low CH / QPSK



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

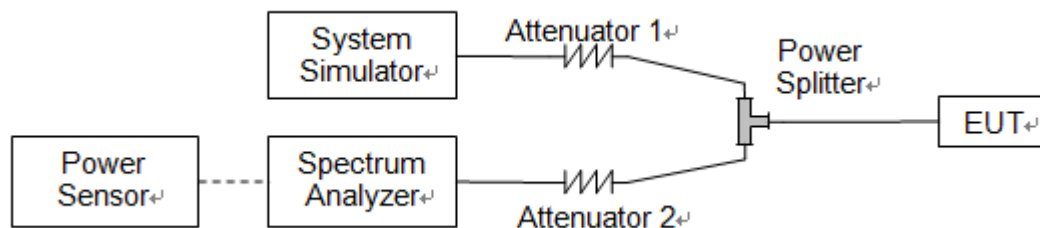
2.5. Band Edge

2.5.1. Requirement

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.

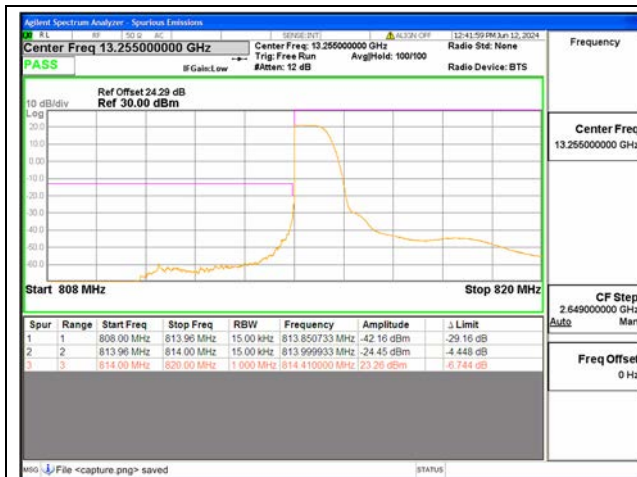
2.5.3. Test procedure

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



2.5.4. Test Result

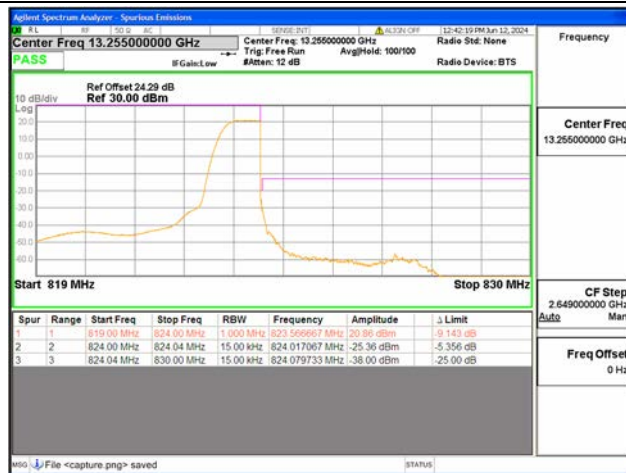




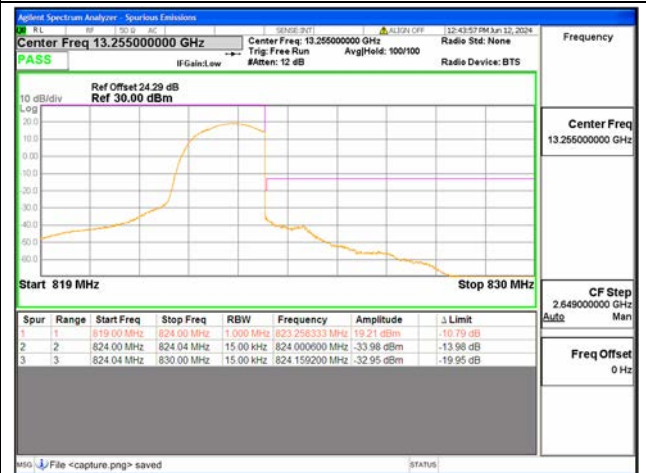
B26 Part90 / 1.4MHz / Low CH / QPSK / 1 RB



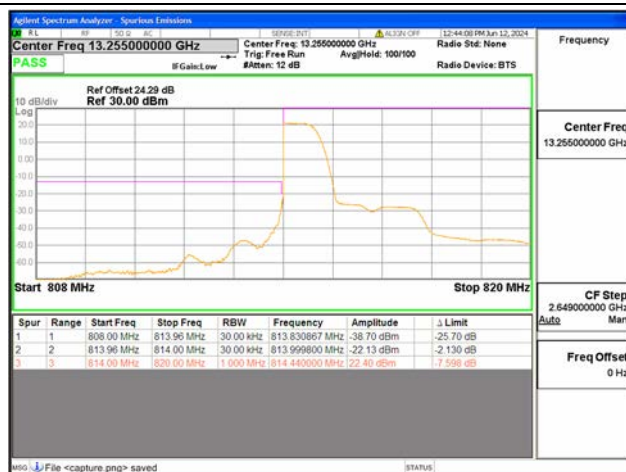
B26 Part90 / 1.4MHz / Low CH / QPSK / FULL RB



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



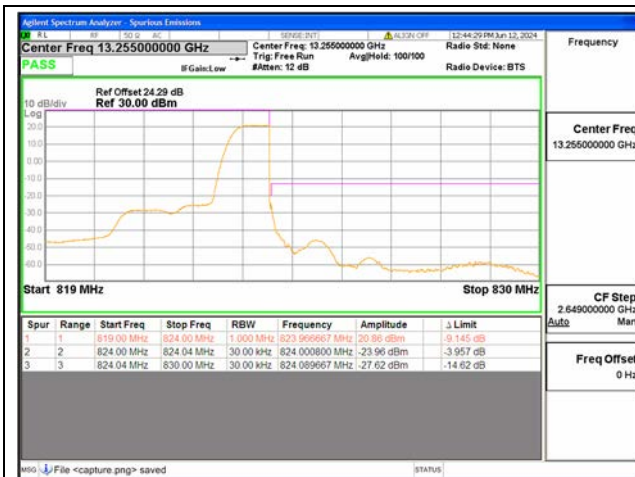
B26 Part90 / 1.4MHz / High CH / QPSK / FULL RB



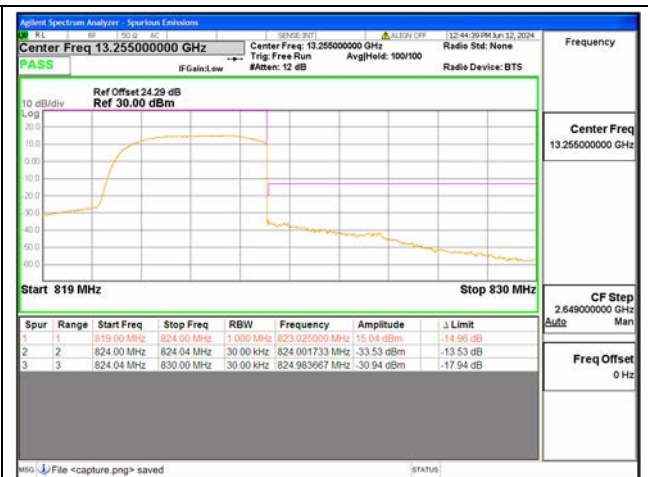
B26 Part90 / 3MHz / Low CH / QPSK / 1 RB



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



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



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



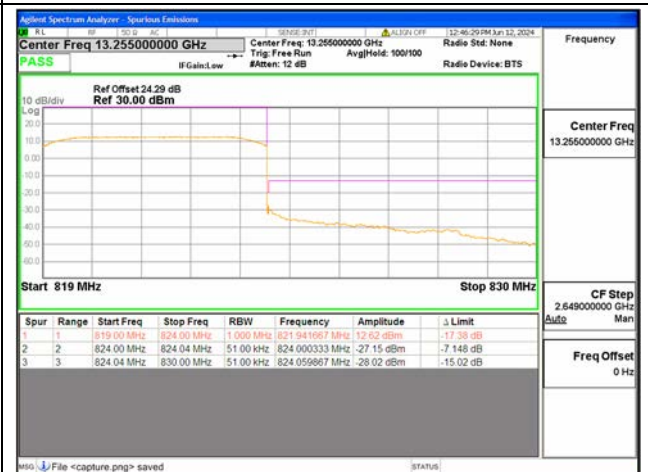
B26 Part90 / 5MHz / Low CH / QPSK / 1 RB



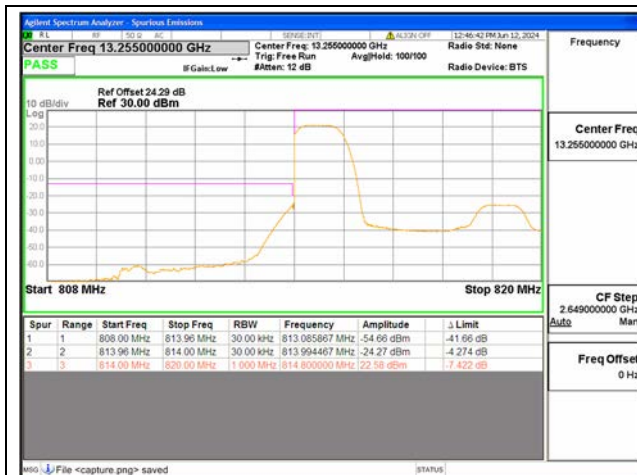
B26 Part90 / 5MHz / Low CH / QPSK / FULL RB



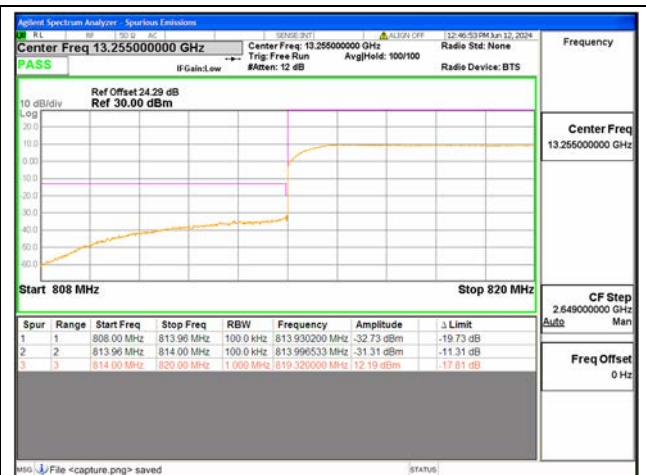
B26 Part90 / 5MHz / High CH / QPSK / 1 RB



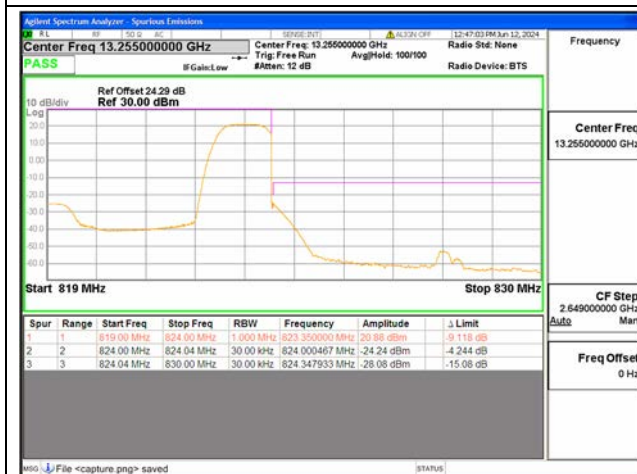
B26 Part90 / 5MHz / High CH / QPSK / FULL RB



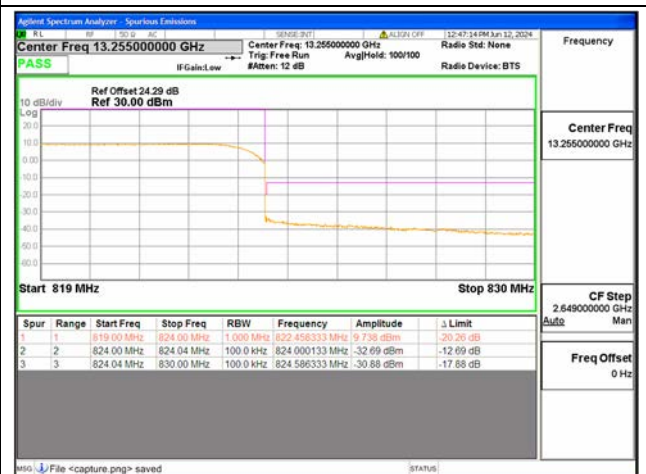
B26 Part90 / 10MHz / Low CH / QPSK / 1 RB



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



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



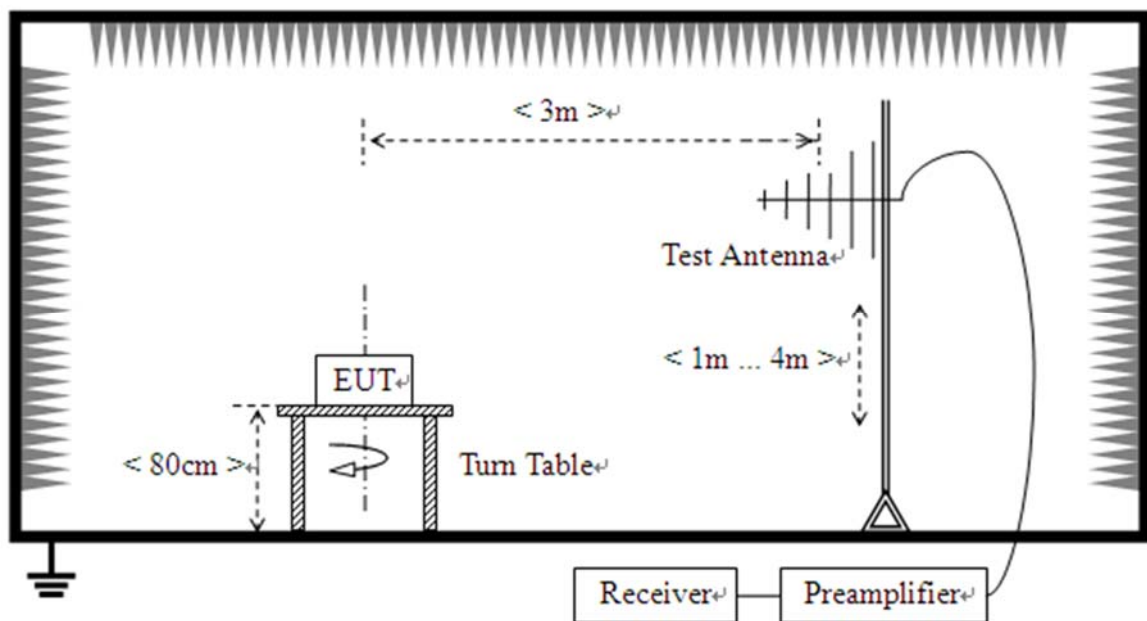
B26 Part90 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

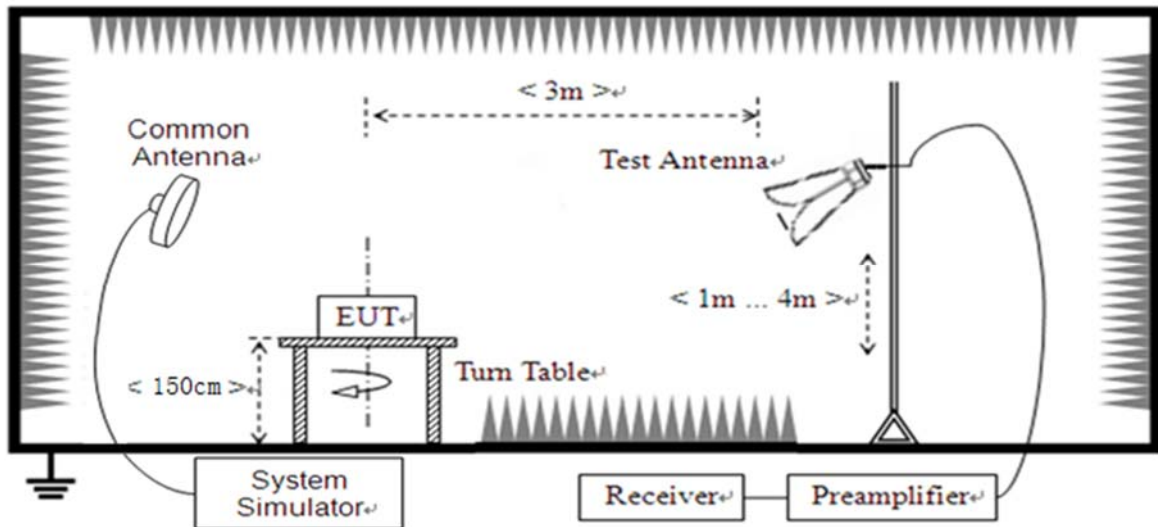
2.6.1. Requirement

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.

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} .

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

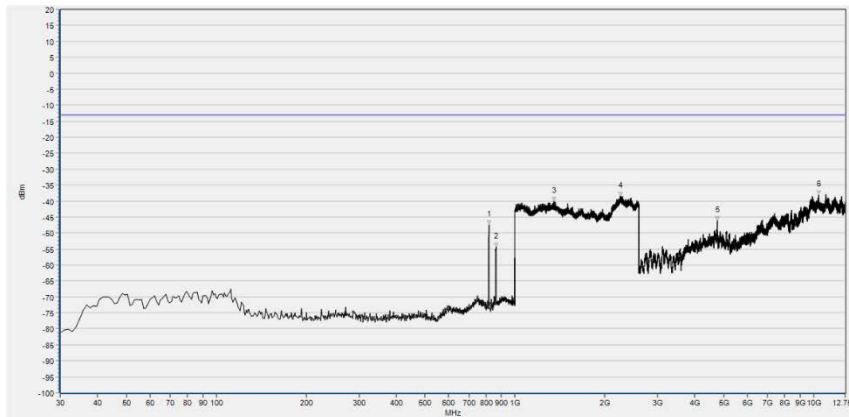
Note2: All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

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.

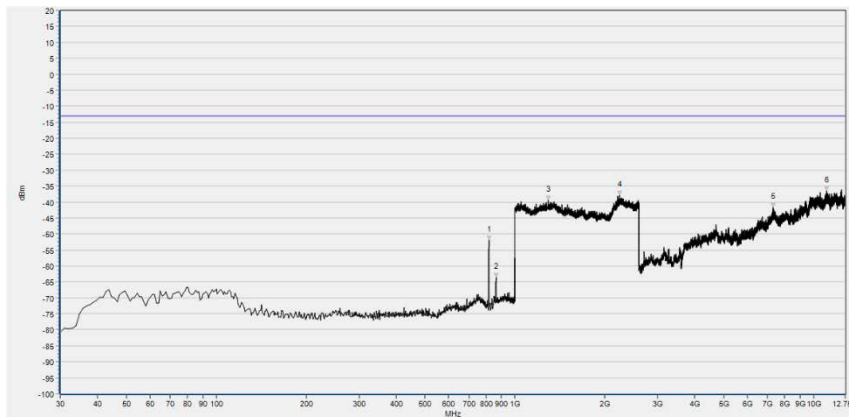
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

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 18, 5MHz BW, Low Channel, QPSK

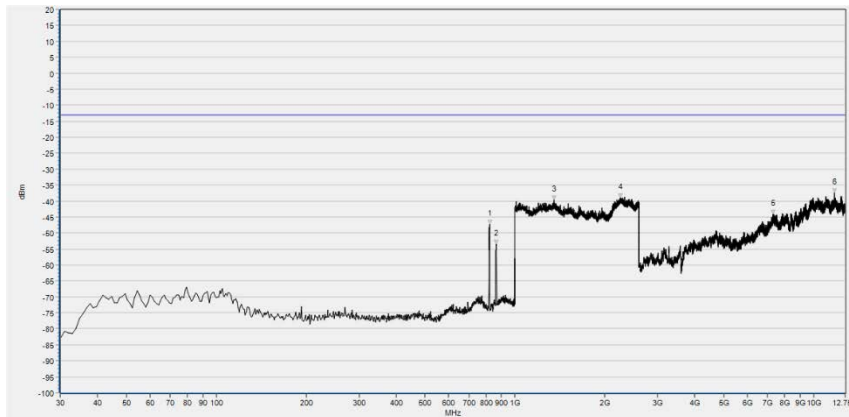


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-47.45	-13.00	Horizontal	N/A
2	863.230	-54.33	-13.00	Horizontal	N/A
3	1350.860	-40.15	-13.00	Horizontal	PASS
4	2248.499	-38.64	-13.00	Horizontal	PASS
5	4750.346	-46.23	-13.00	Horizontal	PASS
6	10400.309	-38.05	-13.00	Horizontal	PASS

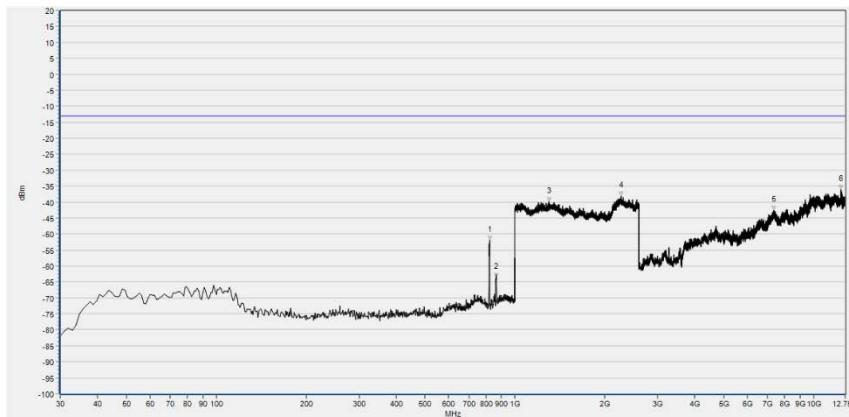


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-52.06	-13.00	Vertical	N/A
2	864.200	-63.61	-13.00	Vertical	N/A
3	1291.957	-39.43	-13.00	Vertical	PASS
4	2235.054	-37.84	-13.00	Vertical	PASS
5	7312.302	-41.67	-13.00	Vertical	PASS
6	11042.644	-36.56	-13.00	Vertical	PASS

LTE Band 18, 5MHz BW, Mid Channel, QPSK

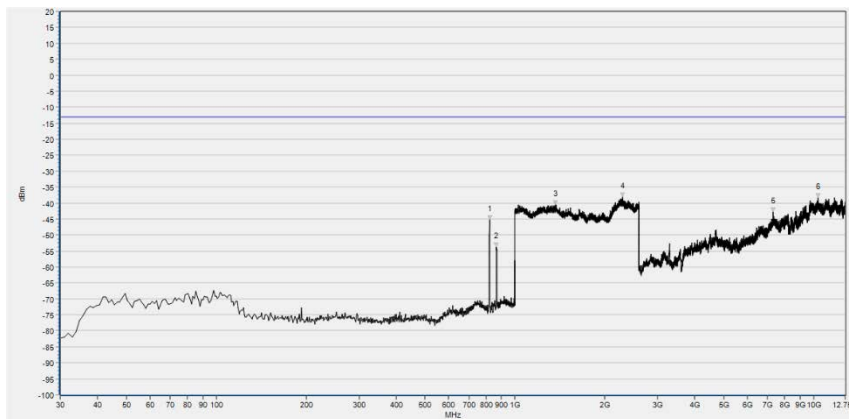


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	821.520	-47.35	-13.00	Horizontal	N/A
2	864.200	-53.54	-13.00	Horizontal	N/A
3	1352.781	-39.60	-13.00	Horizontal	PASS
4	2255.542	-39.02	-13.00	Horizontal	PASS
5	7314.148	-44.08	-13.00	Horizontal	PASS
6	11755.119	-37.53	-13.00	Horizontal	PASS

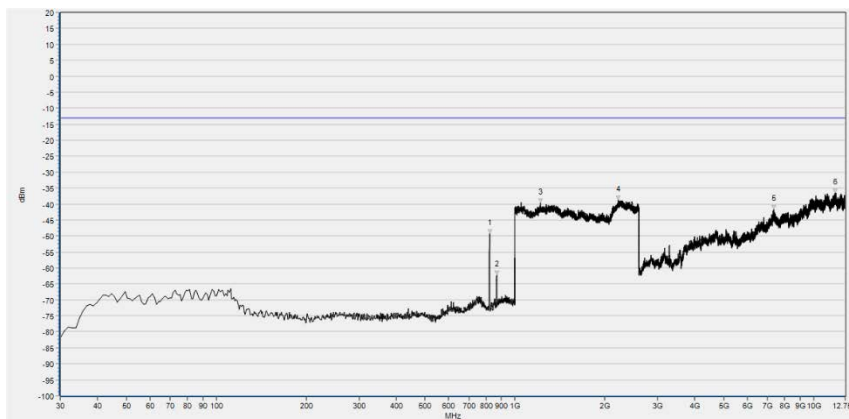


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	821.520	-52.04	-13.00	Vertical	N/A
2	866.140	-63.55	-13.00	Vertical	N/A
3	1298.359	-39.81	-13.00	Vertical	PASS
4	2261.305	-38.17	-13.00	Vertical	PASS
5	7345.526	-42.59	-13.00	Vertical	PASS
6	12355.001	-36.20	-13.00	Vertical	PASS

LTE Band 18, 5MHz BW, High Channel, QPSK

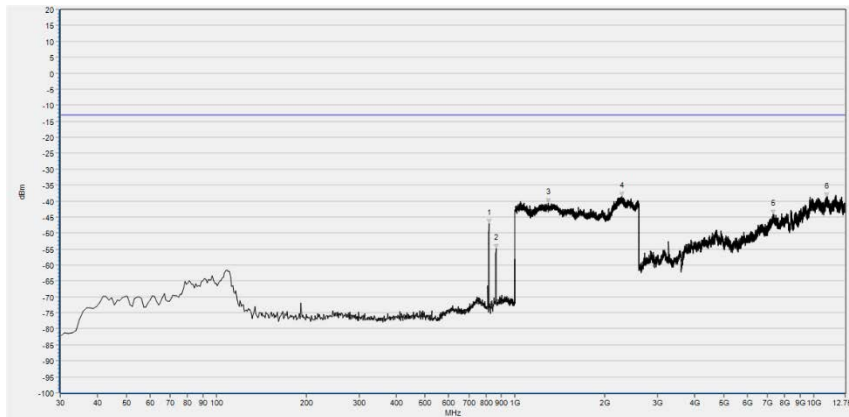


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	822.490	-45.23	-13.00	Horizontal	N/A
2	867.110	-53.85	-13.00	Horizontal	N/A
3	1369.428	-40.65	-13.00	Horizontal	PASS
4	2294.598	-38.03	-13.00	Horizontal	PASS
5	7330.760	-42.90	-13.00	Horizontal	PASS
6	10330.169	-38.29	-13.00	Horizontal	PASS

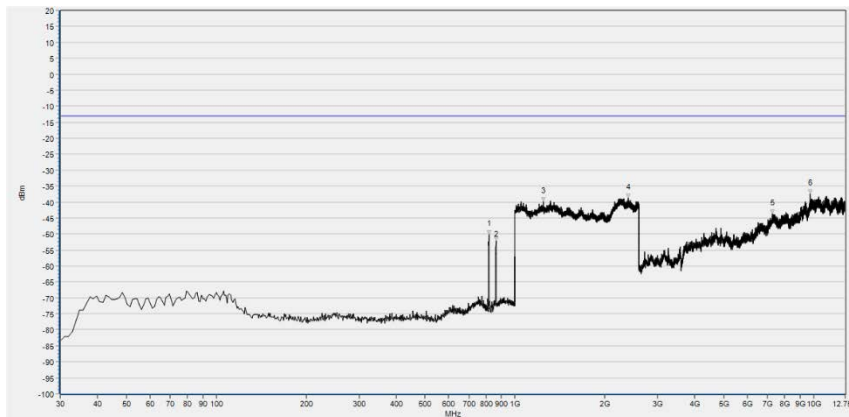


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	822.490	-49.26	-13.00	Vertical	N/A
2	868.080	-62.26	-13.00	Vertical	N/A
3	1218.327	-39.62	-13.00	Vertical	PASS
4	2215.206	-38.88	-13.00	Vertical	PASS
5	7365.830	-41.67	-13.00	Vertical	PASS
6	11804.955	-36.52	-13.00	Vertical	PASS

LTE Band 26, 5MHz BW, Low Channel, QPSK

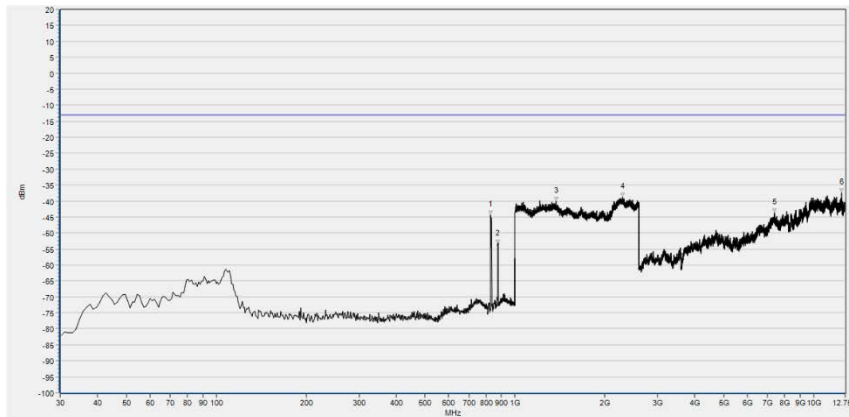


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-47.12	-13.00	Horizontal	N/A
2	863.230	-54.92	-13.00	Horizontal	N/A
3	1293.237	-40.66	-13.00	Horizontal	PASS
4	2272.829	-38.48	-13.00	Horizontal	PASS
5	7319.685	-44.23	-13.00	Horizontal	PASS
6	11026.032	-38.75	-13.00	Horizontal	PASS

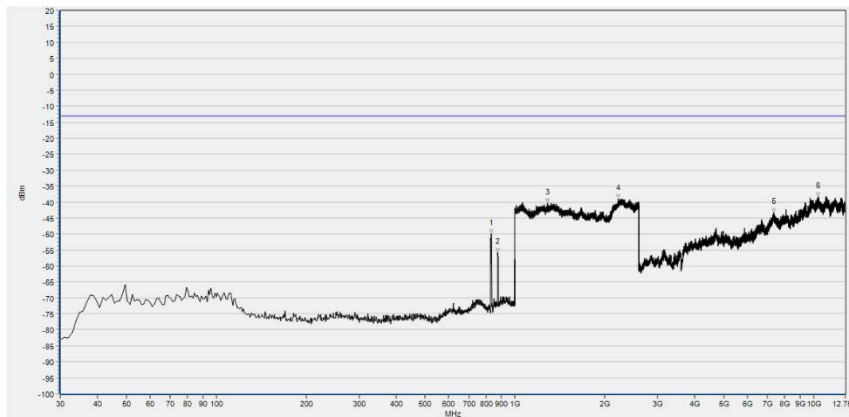


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	817.640	-50.21	-13.00	Vertical	N/A
2	863.230	-52.22	-13.00	Vertical	N/A
3	1245.858	-39.98	-13.00	Vertical	PASS
4	2398.960	-38.68	-13.00	Vertical	PASS
5	7284.615	-43.72	-13.00	Vertical	PASS
6	9741.362	-37.50	-13.00	Vertical	PASS

LTE Band 26, 5MHz BW, Mid Channel, QPSK

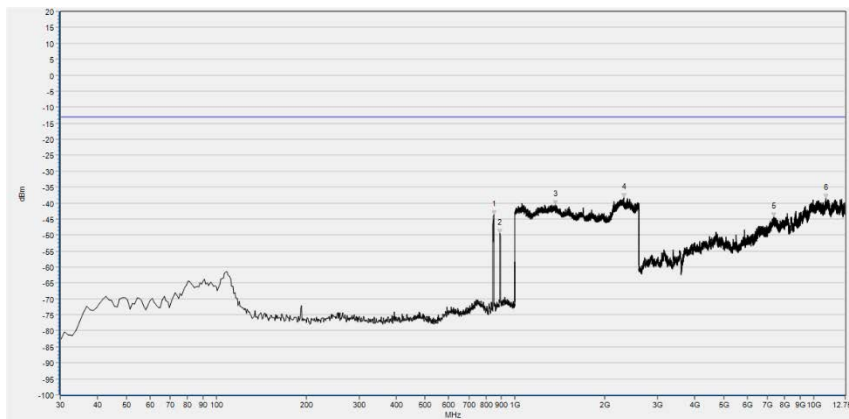


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	829.280	-44.30	-13.00	Horizontal	N/A
2	873.900	-53.60	-13.00	Horizontal	N/A
3	1370.068	-40.21	-13.00	Horizontal	PASS
4	2295.878	-38.76	-13.00	Horizontal	PASS
5	7400.900	-43.60	-13.00	Horizontal	PASS
6	12428.833	-37.49	-13.00	Horizontal	PASS

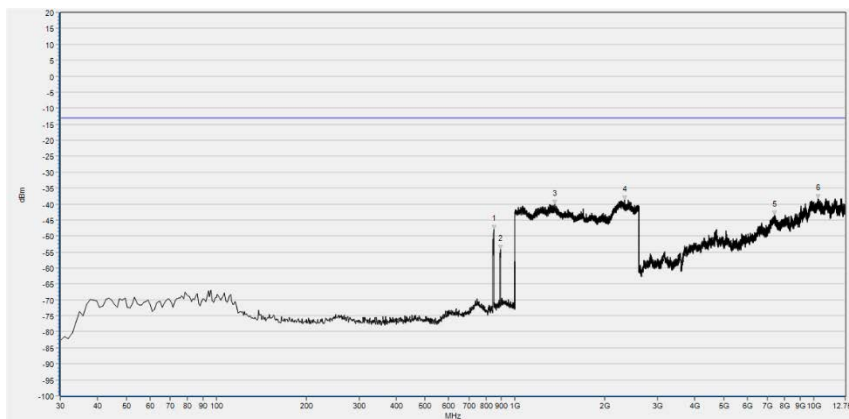


No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	833.160	-50.01	-13.00	Vertical	N/A
2	875.840	-55.83	-13.00	Vertical	N/A
3	1282.993	-40.31	-13.00	Vertical	PASS
4	2214.566	-39.07	-13.00	Vertical	PASS
5	7351.064	-43.30	-13.00	Vertical	PASS
6	10326.478	-38.33	-13.00	Vertical	PASS

LTE Band 26, 5MHz BW, High Channel, QPSK



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-43.58	-13.00	Horizontal	N/A
2	891.360	-49.58	-13.00	Horizontal	N/A
3	1369.428	-40.61	-13.00	Horizontal	PASS
4	2309.964	-38.26	-13.00	Horizontal	PASS
5	7341.835	-44.27	-13.00	Horizontal	PASS
6	11002.037	-38.52	-13.00	Horizontal	PASS



No.	Fre.(MHz)	PK (dBm)	Limit (dBm)	Antenna	Verdict
1	848.680	-48.02	-13.00	Vertical	N/A
2	893.300	-54.27	-13.00	Vertical	N/A
3	1359.824	-40.19	-13.00	Vertical	PASS
4	2325.970	-38.72	-13.00	Vertical	PASS
5	7395.363	-43.55	-13.00	Vertical	PASS
6	10343.090	-38.34	-13.00	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.: SZ24050196W07

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	2023.06.21	2024.06.20
				2024.06.19	2025.06.18
Communication Test Station	6200995016	MT8820C	Anritsu	2023.09.19	2024.09.18
Temperature Chamber	S022177101 00089002	KMT-36LF 1A0	KOMEG	2023.09.19	2024.09.18

4.2 List of Software Used

Description	Manufacturer	Software Version
MOE-2023E Test System	MORLAB	V7.99
MORLAB EMCR	MORLAB	V1.2

**4.3 Radiated Test Equipment**

Equipment Name	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2023.10.17	2024.10.16
Receiver	MY54130016	N9038A	Agilent	2024.05.30	2025.05.29
Test Antenna - Bi-Log	9163-519	VULB 9163	Schwarzbeck	2023.07.01	2024.06.30
				2024.06.22	2025.06.21
Test Antenna - Horn	9120D-963	BBHA 9120D	Schwarzbeck	2023.07.01	2024.06.30
				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	N/A	N/A
RF Coaxial Cable (DC-40GHz)	22290046	QA360-40-KK F-2	Qualwave	N/A	N/A
Preamplifier (10MHz-6GHz)	46732	S10M100L380 2	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (2GHz-18GHz)	61171/61172	S020180L320 3	LUCIX CORP.	2024.05.30	2025.05.29
Preamplifier (18GHz-40GHz)	DS77209	DCLNA0118-4 0C-S	Decentest	2024.05.30	2025.05.29
Notch Filter	N/A	WRCGV -LTE 18	Wainwright	N/A	N/A
Notch Filter	N/A	WRCGV -LTE 26	Wainwright	N/A	N/A
Anechoic Chamber	N/A	9m*6m*6m	CRT	2022.05.10	2025.05.09

_____ END OF REPORT _____