



REPORT No.: SZ24100003W09

TEST REPORT

APPLICANT : JP Morgan Chase Bank N.A

PRODUCT NAME : PAYPAD_801_GEN1

MODEL NAME : BLADE_801_GEN1

BRAND NAME : Chase

FCC ID : 2BHXP-BLAD08AA

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

RECEIPT DATE : 2025-01-10

TEST DATE : 2025-01-17 to 2025-04-21

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Change History		
Version	Date	Reason for change
1.0	2025-05-08	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	JP Morgan Chase Bank N.A
Applicant Address:	70 Fargo St, Boston, MA, USA 02210
Manufacturer:	JP Morgan Chase Bank N.A
Manufacturer Address:	70 Fargo St, Boston, MA, USA 02210

1.2. Equipment Under Test (EUT) Description

Product Name:	PAYPAD_801_GEN1	
Sample No.:	1#, 3#	
Hardware Version:	PVT	
Software Version:	BLADE_801_GEN1.BE2M.20250403+	
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM	
Operation Band:	Band 26	
Frequency Range:	LTE Band 26	Tx: 814MHz–824MHz
		Rx: 859MHz–869MHz
Channel Bandwidth	LTE Band 26	1.4MHz, 3MHz, 5MHz, 10MHz
Antenna Type:	PIFA Antenna	
Antenna Gain:	LTE Band 26	-1.08dBi
Accessory Information:	Battery	
	Brand Name:	Chase
	Model No.:	860010
	Serial No.:	N/A
	Capacity:	6150mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Shenzhen GUANGWEI Electronic Technology Co., Ltd.
	USB Cable	
	Model No.:	HC-0412

Note 1: SIM 1 and SIM 2 is a chipset unit and tested as a single chipset. The SIM 1 is chosen for test.



Note 2: 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 26	Maximum E.R.P./E.I.R.P. (W)				Emission Designator (99%OBW)			
BW(MHz)	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
10	0.082	0.070	0.054	0.037	8M96G7D	8M92W7D	8M97W7D	8M95W7D
5	0.083	0.073	0.064	0.036	4M49G7D	4M49W7D	4M50W7D	4M49W7D
3	0.082	0.069	0.061	0.038	2M70G7D	2M72W7D	2M71W7D	2M71W7D
1.4	0.079	0.069	0.054	0.039	1M09G7D	1M10W7D	1M10W7D	1M09W7D



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 E.R.P./E.I.R.P.	Apr. 21, 2025	Yu Xiaoming Gan Jing	PASS	No deviation
2.1049, 90.209	Occupied Bandwidth	Feb. 24, 2025	Gan Jing	PASS	No deviation
2.1055, 90.213	Frequency Stability	Apr. 21, 2025	Gan Jing	PASS	No deviation
2.1051, 90.691	Conducted Spurious Emissions	Feb. 08, 2025	Gan Jing	PASS	No deviation
2.1051, 90.691	Band Edge	Jan. 21, 2025	Gan Jing	PASS	No deviation
2.1053, 90.691	Radiated Spurious Emissions	Feb. 21, 2025	Li Hanbin	PASS	No deviation

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

Note 2: 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

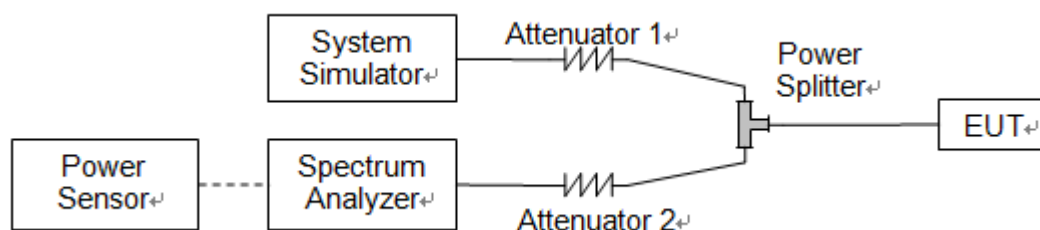
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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.

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

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

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

LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				/	26740	/
Frequency (MHz)				/	819.0	/
10	QPSK	1	0	/	22.32	/
10	QPSK	1	25	/	22.39	/
10	QPSK	1	49	/	22.13	/
10	QPSK	25	0	/	21.29	/
10	QPSK	25	12	/	21.44	/
10	QPSK	25	25	/	21.01	/
10	QPSK	50	0	/	21.55	/
10	16QAM	1	0	/	21.71	/
10	16QAM	1	25	/	21.32	/
10	16QAM	1	49	/	21.41	/
10	16QAM	25	0	/	20.37	/
10	16QAM	25	12	/	20.19	/
10	16QAM	25	25	/	20.35	/
10	16QAM	50	0	/	20.36	/
10	64QAM	1	0	/	20.49	/
10	64QAM	1	25	/	19.84	/
10	64QAM	1	49	/	20.55	/
10	64QAM	25	0	/	19.84	/
10	64QAM	25	12	/	19.92	/
10	64QAM	25	25	/	19.60	/
10	64QAM	50	0	/	19.56	/
10	256QAM	1	0	/	18.78	/
10	256QAM	1	25	/	18.37	/
10	256QAM	1	49	/	18.96	/
10	256QAM	25	0	/	18.06	/
10	256QAM	25	12	/	18.45	/
10	256QAM	25	25	/	18.45	/
10	256QAM	50	0	/	18.27	/



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26715	26740	26765
Frequency (MHz)				816.5	819.0	821.5
5	QPSK	1	0	22.37	22.16	21.82
5	QPSK	1	12	22.43	22.21	22.14
5	QPSK	1	24	21.79	21.92	21.70
5	QPSK	12	0	21.52	21.45	21.42
5	QPSK	12	7	21.62	21.57	21.52
5	QPSK	12	13	21.47	21.45	21.51
5	QPSK	25	0	21.49	21.41	21.49
5	16QAM	1	0	21.25	21.59	21.41
5	16QAM	1	12	21.24	21.37	20.98
5	16QAM	1	24	21.89	20.66	20.98
5	16QAM	12	0	20.54	20.43	20.08
5	16QAM	12	7	20.76	20.58	20.18
5	16QAM	12	13	20.37	20.32	20.57
5	16QAM	25	0	20.27	20.40	20.41
5	64QAM	1	0	20.15	20.28	21.31
5	64QAM	1	12	20.06	20.30	20.05
5	64QAM	1	24	20.17	20.93	19.90
5	64QAM	12	0	19.65	19.66	19.62
5	64QAM	12	7	19.76	19.54	19.72
5	64QAM	12	13	19.59	19.88	19.32
5	64QAM	25	0	19.76	19.53	19.78
5	256QAM	1	0	18.78	18.83	18.50
5	256QAM	1	12	18.44	18.72	18.58
5	256QAM	1	24	18.50	18.84	18.49
5	256QAM	12	0	18.14	18.15	18.11
5	256QAM	12	7	18.31	18.21	17.80
5	256QAM	12	13	17.69	17.97	18.25
5	256QAM	25	0	18.10	17.91	17.86



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	22.09	22.34	22.35
3	QPSK	1	8	22.12	22.15	21.97
3	QPSK	1	14	22.10	21.96	22.19
3	QPSK	8	0	21.57	21.41	21.26
3	QPSK	8	4	21.51	21.57	21.64
3	QPSK	8	7	21.78	21.29	21.42
3	QPSK	15	0	21.40	21.41	21.53
3	16QAM	1	0	21.20	21.62	21.54
3	16QAM	1	8	21.59	21.55	21.44
3	16QAM	1	14	21.56	20.94	21.61
3	16QAM	8	0	20.68	20.60	20.45
3	16QAM	8	4	20.71	20.70	20.50
3	16QAM	8	7	20.49	20.40	20.29
3	16QAM	15	0	20.49	20.51	20.59
3	64QAM	1	0	21.06	20.38	20.15
3	64QAM	1	8	20.09	20.17	20.21
3	64QAM	1	14	20.37	20.69	20.71
3	64QAM	8	0	19.68	19.47	19.38
3	64QAM	8	4	19.56	19.53	19.81
3	64QAM	8	7	19.68	19.47	19.71
3	64QAM	15	0	19.52	19.68	19.51
3	256QAM	1	0	18.55	18.77	18.72
3	256QAM	1	8	18.62	18.58	18.91
3	256QAM	1	14	18.99	18.61	18.86
3	256QAM	8	0	17.97	18.20	17.93
3	256QAM	8	4	18.08	18.00	18.22
3	256QAM	8	7	18.19	17.85	17.97
3	256QAM	15	0	18.22	18.04	17.81



LTE Band 26						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				26697	26740	26783
Frequency (MHz)				814.7	819.0	823.3
1.4	QPSK	1	0	22.08	22.12	21.98
1.4	QPSK	1	3	22.07	22.06	22.19
1.4	QPSK	1	5	22.19	22.07	22.08
1.4	QPSK	3	0	21.88	21.99	22.02
1.4	QPSK	3	1	22.04	21.97	22.11
1.4	QPSK	3	3	21.85	22.04	22.06
1.4	QPSK	6	0	21.28	21.15	21.25
1.4	16QAM	1	0	21.32	21.42	21.12
1.4	16QAM	1	3	21.13	21.51	21.28
1.4	16QAM	1	5	21.60	21.44	21.35
1.4	16QAM	3	0	20.97	21.37	21.28
1.4	16QAM	3	1	21.11	21.06	21.16
1.4	16QAM	3	3	21.10	21.34	21.07
1.4	16QAM	6	0	20.44	20.35	20.37
1.4	64QAM	1	0	20.55	20.31	20.15
1.4	64QAM	1	3	19.83	20.13	20.24
1.4	64QAM	1	5	20.27	20.10	20.20
1.4	64QAM	3	0	20.48	20.53	20.47
1.4	64QAM	3	1	20.51	20.42	20.43
1.4	64QAM	3	3	20.49	20.59	20.45
1.4	64QAM	6	0	19.29	19.08	19.31
1.4	256QAM	1	0	18.62	18.34	19.03
1.4	256QAM	1	3	18.49	18.49	18.47
1.4	256QAM	1	5	18.33	18.74	18.77
1.4	256QAM	3	0	19.02	18.94	19.07
1.4	256QAM	3	1	19.00	18.89	19.14
1.4	256QAM	3	3	19.05	19.02	18.94
1.4	256QAM	6	0	17.87	17.82	17.92

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

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	/	19.09	0.081	/
10	QPSK	1	25	/	19.16	0.082	/
10	QPSK	1	49	/	18.90	0.078	/
10	QPSK	25	0	/	18.06	0.064	/
10	QPSK	25	12	/	18.21	0.066	/
10	QPSK	25	25	/	17.78	0.060	/
10	QPSK	50	0	/	18.32	0.068	/
10	16QAM	1	0	/	18.48	0.070	/
10	16QAM	1	25	/	18.09	0.064	/
10	16QAM	1	49	/	18.18	0.066	/
10	16QAM	25	0	/	17.14	0.052	/
10	16QAM	25	12	/	16.96	0.050	/
10	16QAM	25	25	/	17.12	0.052	/
10	16QAM	50	0	/	17.13	0.052	/
10	64QAM	1	0	/	17.26	0.053	/
10	64QAM	1	25	/	16.61	0.046	/
10	64QAM	1	49	/	17.32	0.054	/
10	64QAM	25	0	/	16.61	0.046	/
10	64QAM	25	12	/	16.69	0.047	/
10	64QAM	25	25	/	16.37	0.043	/
10	64QAM	50	0	/	16.33	0.043	/
10	256QAM	1	0	/	15.55	0.036	/
10	256QAM	1	25	/	15.14	0.033	/
10	256QAM	1	49	/	15.73	0.037	/
10	256QAM	25	0	/	14.83	0.030	/
10	256QAM	25	12	/	15.22	0.033	/
10	256QAM	25	25	/	15.22	0.033	/
10	256QAM	50	0	/	15.04	0.032	/



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	19.14	0.082	18.93	0.078	18.59	0.072
5	QPSK	1	12	19.20	0.083	18.98	0.079	18.91	0.078
5	QPSK	1	24	18.56	0.072	18.69	0.074	18.47	0.070
5	QPSK	12	0	18.29	0.067	18.22	0.066	18.19	0.066
5	QPSK	12	7	18.39	0.069	18.34	0.068	18.29	0.067
5	QPSK	12	13	18.24	0.067	18.22	0.066	18.28	0.067
5	QPSK	25	0	18.26	0.067	18.18	0.066	18.26	0.067
5	16QAM	1	0	18.02	0.063	18.36	0.069	18.18	0.066
5	16QAM	1	12	18.01	0.063	18.14	0.065	17.75	0.060
5	16QAM	1	24	18.66	0.073	17.43	0.055	17.75	0.060
5	16QAM	12	0	17.31	0.054	17.20	0.052	16.85	0.048
5	16QAM	12	7	17.53	0.057	17.35	0.054	16.95	0.050
5	16QAM	12	13	17.14	0.052	17.09	0.051	17.34	0.054
5	16QAM	25	0	17.04	0.051	17.17	0.052	17.18	0.052
5	64QAM	1	0	16.92	0.049	17.05	0.051	18.08	0.064
5	64QAM	1	12	16.83	0.048	17.07	0.051	16.82	0.048
5	64QAM	1	24	16.94	0.049	17.70	0.059	16.67	0.046
5	64QAM	12	0	16.42	0.044	16.43	0.044	16.39	0.044
5	64QAM	12	7	16.53	0.045	16.31	0.043	16.49	0.045
5	64QAM	12	13	16.36	0.043	16.65	0.046	16.09	0.041
5	64QAM	25	0	16.53	0.045	16.30	0.043	16.55	0.045
5	256QAM	1	0	15.55	0.036	15.60	0.036	15.27	0.034
5	256QAM	1	12	15.21	0.033	15.49	0.035	15.35	0.034
5	256QAM	1	24	15.27	0.034	15.61	0.036	15.26	0.034
5	256QAM	12	0	14.91	0.031	14.92	0.031	14.88	0.031
5	256QAM	12	7	15.08	0.032	14.98	0.031	14.57	0.029
5	256QAM	12	13	14.46	0.028	14.74	0.030	15.02	0.032
5	256QAM	25	0	14.87	0.031	14.68	0.029	14.63	0.029



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	18.86	0.077	19.11	0.081	19.12	0.082
3	QPSK	1	8	18.89	0.077	18.92	0.078	18.74	0.075
3	QPSK	1	14	18.87	0.077	18.73	0.075	18.96	0.079
3	QPSK	8	0	18.34	0.068	18.18	0.066	18.03	0.064
3	QPSK	8	4	18.28	0.067	18.34	0.068	18.41	0.069
3	QPSK	8	7	18.55	0.072	18.06	0.064	18.19	0.066
3	QPSK	15	0	18.17	0.066	18.18	0.066	18.30	0.068
3	16QAM	1	0	17.97	0.063	18.39	0.069	18.31	0.068
3	16QAM	1	8	18.36	0.069	18.32	0.068	18.21	0.066
3	16QAM	1	14	18.33	0.068	17.71	0.059	18.38	0.069
3	16QAM	8	0	17.45	0.056	17.37	0.055	17.22	0.053
3	16QAM	8	4	17.48	0.056	17.47	0.056	17.27	0.053
3	16QAM	8	7	17.26	0.053	17.17	0.052	17.06	0.051
3	16QAM	15	0	17.26	0.053	17.28	0.053	17.36	0.054
3	64QAM	1	0	17.83	0.061	17.15	0.052	16.92	0.049
3	64QAM	1	8	16.86	0.049	16.94	0.049	16.98	0.050
3	64QAM	1	14	17.14	0.052	17.46	0.056	17.48	0.056
3	64QAM	8	0	16.45	0.044	16.24	0.042	16.15	0.041
3	64QAM	8	4	16.33	0.043	16.30	0.043	16.58	0.045
3	64QAM	8	7	16.45	0.044	16.24	0.042	16.48	0.044
3	64QAM	15	0	16.29	0.043	16.45	0.044	16.28	0.042
3	256QAM	1	0	15.32	0.034	15.54	0.036	15.49	0.035
3	256QAM	1	8	15.39	0.035	15.35	0.034	15.68	0.037
3	256QAM	1	14	15.76	0.038	15.38	0.035	15.63	0.037
3	256QAM	8	0	14.74	0.030	14.97	0.031	14.70	0.030
3	256QAM	8	4	14.85	0.031	14.77	0.030	14.99	0.032
3	256QAM	8	7	14.96	0.031	14.62	0.029	14.74	0.030
3	256QAM	15	0	14.99	0.032	14.81	0.030	14.58	0.029



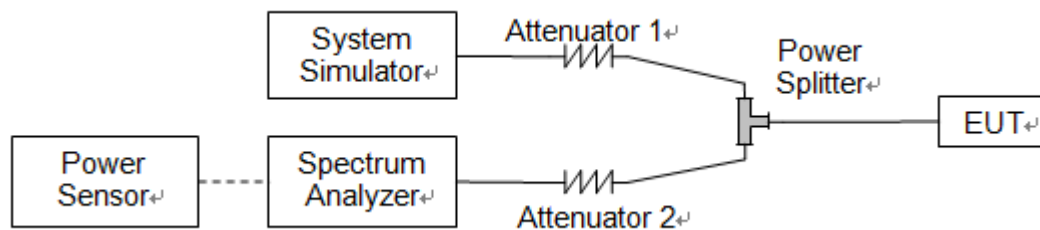
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.85	0.077	18.89	0.077	18.75	0.075
1.4	QPSK	1	3	18.84	0.077	18.83	0.076	18.96	0.079
1.4	QPSK	1	5	18.96	0.079	18.84	0.077	18.85	0.077
1.4	QPSK	3	0	18.65	0.073	18.76	0.075	18.79	0.076
1.4	QPSK	3	1	18.81	0.076	18.74	0.075	18.88	0.077
1.4	QPSK	3	3	18.62	0.073	18.81	0.076	18.83	0.076
1.4	QPSK	6	0	18.05	0.064	17.92	0.062	18.02	0.063
1.4	16QAM	1	0	18.09	0.064	18.19	0.066	17.89	0.062
1.4	16QAM	1	3	17.90	0.062	18.28	0.067	18.05	0.064
1.4	16QAM	1	5	18.37	0.069	18.21	0.066	18.12	0.065
1.4	16QAM	3	0	17.74	0.059	18.14	0.065	18.05	0.064
1.4	16QAM	3	1	17.88	0.061	17.83	0.061	17.93	0.062
1.4	16QAM	3	3	17.87	0.061	18.11	0.065	17.84	0.061
1.4	16QAM	6	0	17.21	0.053	17.12	0.052	17.14	0.052
1.4	64QAM	1	0	17.32	0.054	17.08	0.051	16.92	0.049
1.4	64QAM	1	3	16.60	0.046	16.90	0.049	17.01	0.050
1.4	64QAM	1	5	17.04	0.051	16.87	0.049	16.97	0.050
1.4	64QAM	3	0	17.25	0.053	17.30	0.054	17.24	0.053
1.4	64QAM	3	1	17.28	0.053	17.19	0.052	17.20	0.052
1.4	64QAM	3	3	17.26	0.053	17.36	0.054	17.22	0.053
1.4	64QAM	6	0	16.06	0.040	15.85	0.038	16.08	0.041
1.4	256QAM	1	0	15.39	0.035	15.11	0.032	15.80	0.038
1.4	256QAM	1	3	15.26	0.034	15.26	0.034	15.24	0.033
1.4	256QAM	1	5	15.10	0.032	15.51	0.036	15.54	0.036
1.4	256QAM	3	0	15.79	0.038	15.71	0.037	15.84	0.038
1.4	256QAM	3	1	15.77	0.038	15.66	0.037	15.91	0.039
1.4	256QAM	3	3	15.82	0.038	15.79	0.038	15.71	0.037
1.4	256QAM	6	0	14.64	0.029	14.59	0.029	14.69	0.029

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.

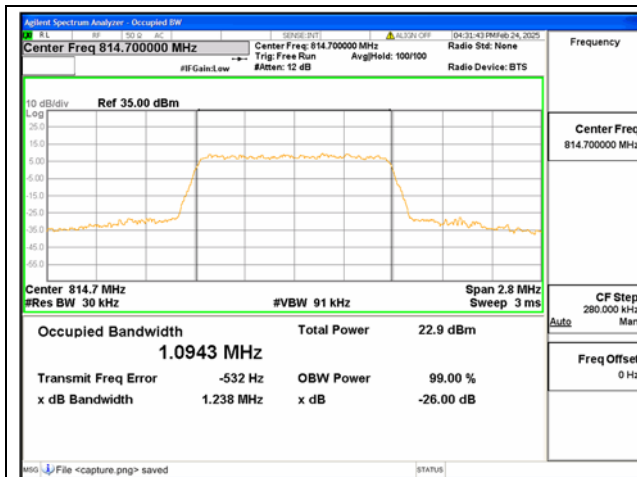
**2.2.4. Test Result**

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26	1.4	Low	26697	814.7	QPSK	1.0943	1.2376	PASS
B26	1.4	Low	26697	814.7	16QAM	1.0983	1.2300	PASS
B26	1.4	Low	26697	814.7	64QAM	1.0954	1.2331	PASS
B26	1.4	Low	26697	814.7	256QAM	1.0891	1.2329	PASS
B26	1.4	Mid	26740	819	QPSK	1.0946	1.2361	PASS
B26	1.4	Mid	26740	819	16QAM	1.0989	1.2292	PASS
B26	1.4	Mid	26740	819	64QAM	1.0956	1.2406	PASS
B26	1.4	Mid	26740	819	256QAM	1.0882	1.2303	PASS
B26	1.4	High	26783	823.3	QPSK	1.0935	1.2403	PASS
B26	1.4	High	26783	823.3	16QAM	1.0985	1.2334	PASS
B26	1.4	High	26783	823.3	64QAM	1.0994	1.2532	PASS
B26	1.4	High	26783	823.3	256QAM	1.0898	1.2325	PASS
B26	3	Low	26705	815.5	QPSK	2.6967	2.9928	PASS
B26	3	Low	26705	815.5	16QAM	2.7119	3.0316	PASS
B26	3	Low	26705	815.5	64QAM	2.7048	2.9837	PASS
B26	3	Low	26705	815.5	256QAM	2.7062	3.0182	PASS
B26	3	Mid	26740	819	QPSK	2.6975	2.9902	PASS
B26	3	Mid	26740	819	16QAM	2.7208	3.0253	PASS
B26	3	Mid	26740	819	64QAM	2.7051	3.0065	PASS
B26	3	Mid	26740	819	256QAM	2.7022	3.0237	PASS
B26	3	High	26775	822.5	QPSK	2.7028	2.9955	PASS
B26	3	High	26775	822.5	16QAM	2.7173	2.9916	PASS
B26	3	High	26775	822.5	64QAM	2.7035	2.9972	PASS
B26	3	High	26775	822.5	256QAM	2.7125	3.0161	PASS
B26	5	Low	26715	816.5	QPSK	4.4834	4.9222	PASS
B26	5	Low	26715	816.5	16QAM	4.4767	4.8807	PASS
B26	5	Low	26715	816.5	64QAM	4.4905	4.9270	PASS
B26	5	Low	26715	816.5	256QAM	4.4722	4.8834	PASS
B26	5	Mid	26740	819	QPSK	4.4889	4.9441	PASS
B26	5	Mid	26740	819	16QAM	4.4827	4.8869	PASS
B26	5	Mid	26740	819	64QAM	4.4941	4.9372	PASS
B26	5	Mid	26740	819	256QAM	4.4802	4.8916	PASS
B26	5	High	26765	821.5	QPSK	4.4905	4.9575	PASS

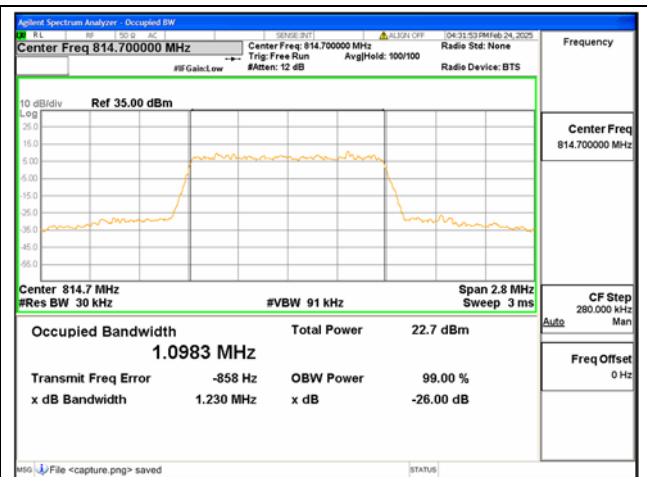


REPORT No.: SZ24100003W09

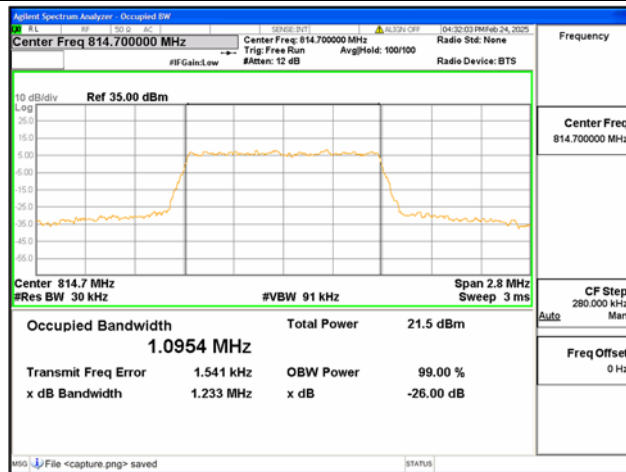
B26	5	High	26765	821.5	16QAM	4.4855	4.9030	PASS
B26	5	High	26765	821.5	64QAM	4.5043	4.9592	PASS
B26	5	High	26765	821.5	256QAM	4.4903	4.9170	PASS
B26	10	Low	26740	819	QPSK	8.9615	9.6754	PASS
B26	10	Low	26740	819	16QAM	8.9209	9.7084	PASS
B26	10	Low	26740	819	64QAM	8.9489	9.7384	PASS
B26	10	Low	26740	819	256QAM	8.9226	9.6613	PASS
B26	10	Mid	26740	819	QPSK	8.9540	9.7425	PASS
B26	10	Mid	26740	819	16QAM	8.9217	9.6812	PASS
B26	10	Mid	26740	819	64QAM	8.9430	9.7212	PASS
B26	10	Mid	26740	819	256QAM	8.9297	9.7164	PASS
B26	10	High	26740	819	QPSK	8.9563	9.6986	PASS
B26	10	High	26740	819	16QAM	8.9221	9.6848	PASS
B26	10	High	26740	819	64QAM	8.9731	9.7122	PASS
B26	10	High	26740	819	256QAM	8.9504	9.6741	PASS



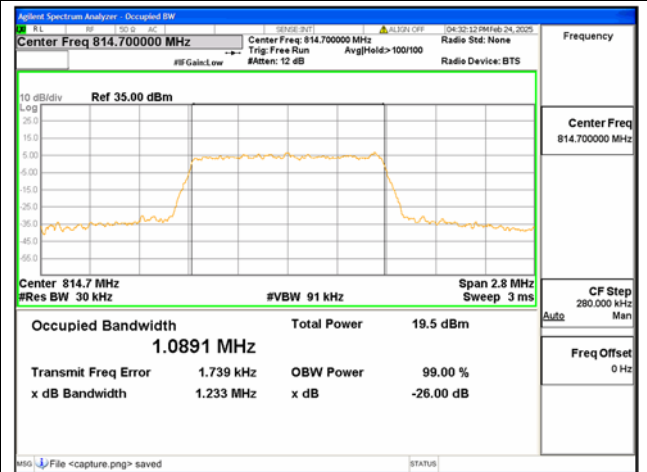
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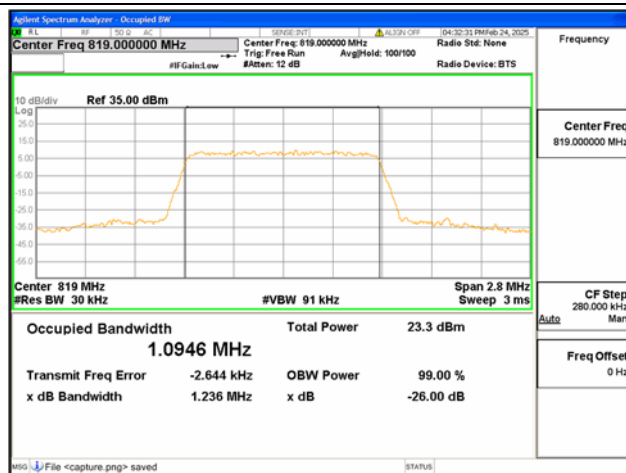
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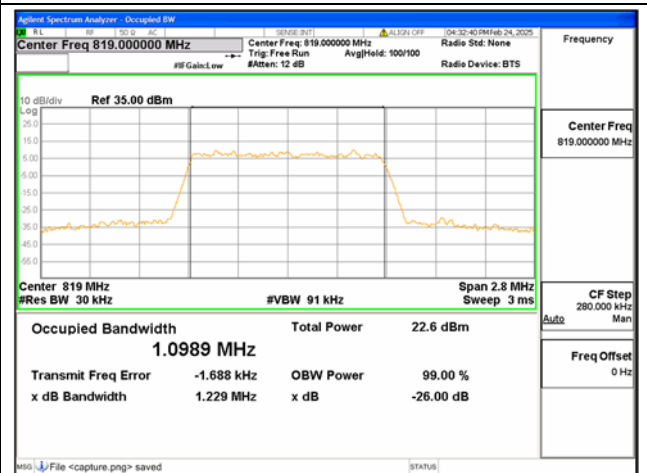
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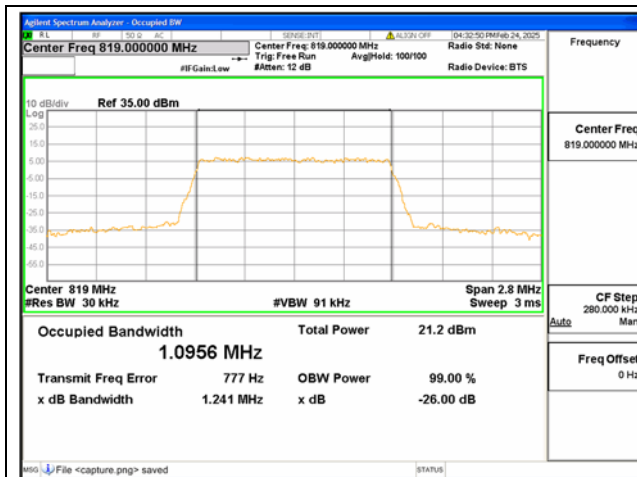
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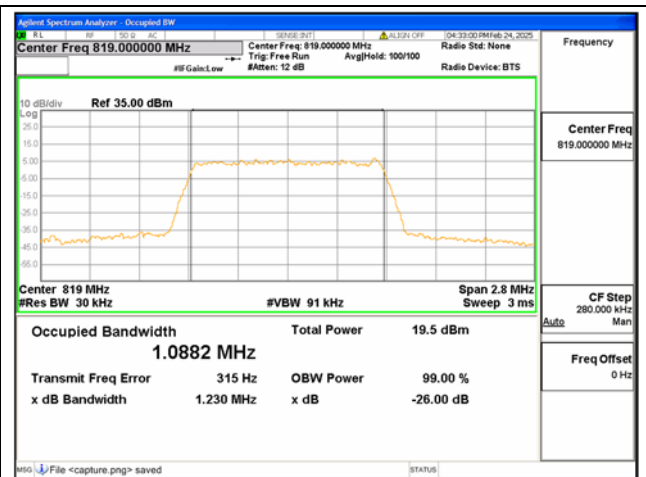
B26 Part90 / 1.4MHz / QPSK/ Mid CH



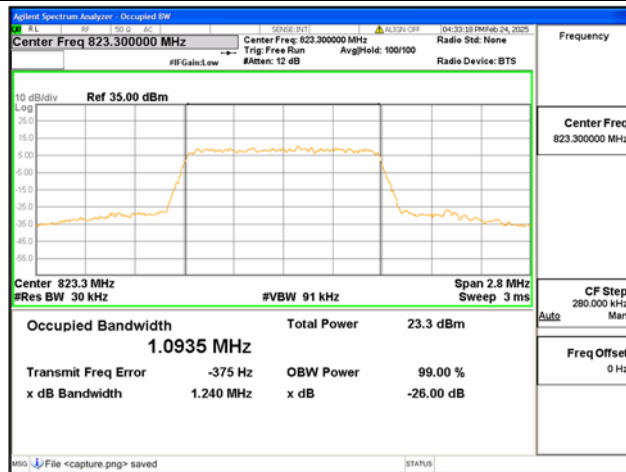
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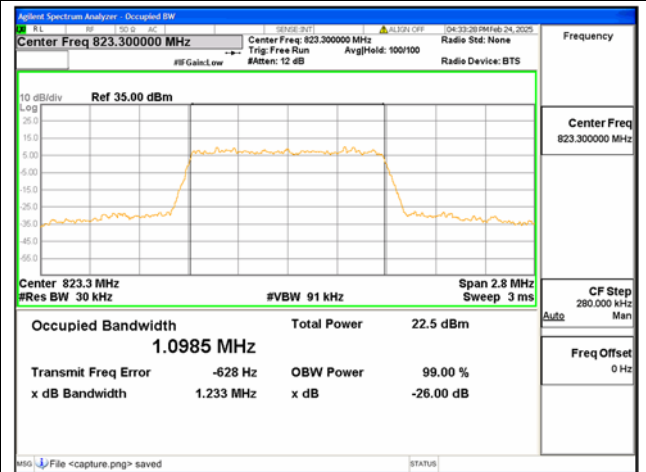
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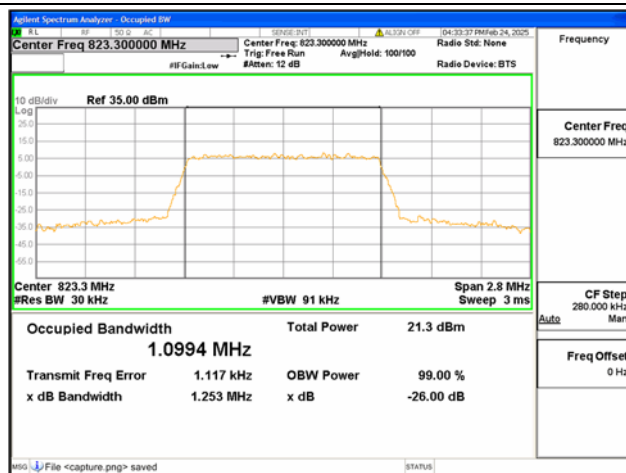
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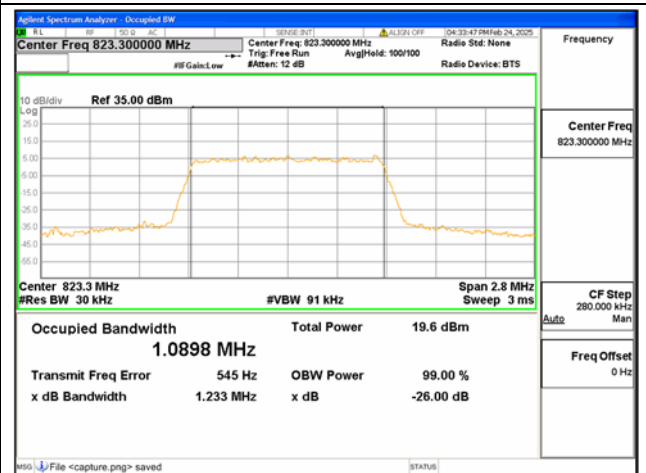
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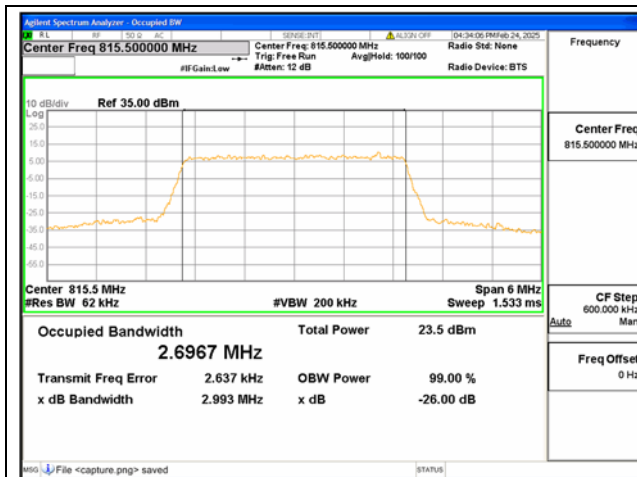
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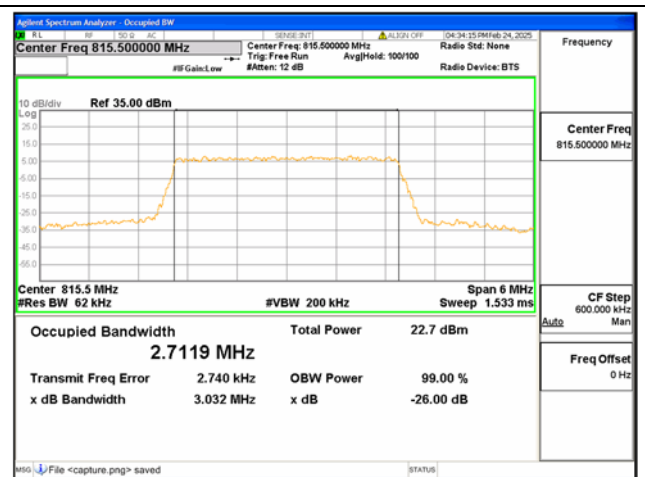
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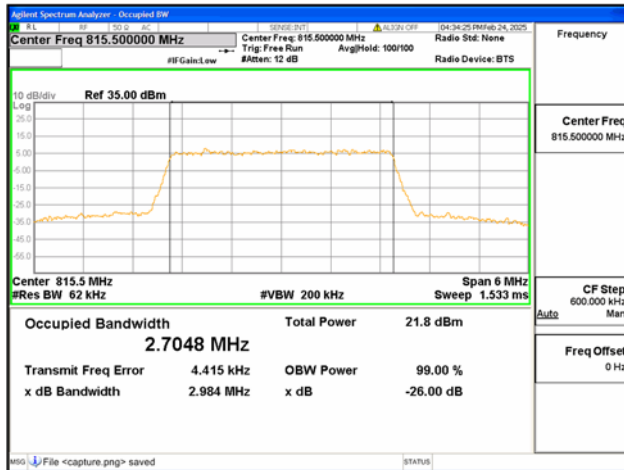
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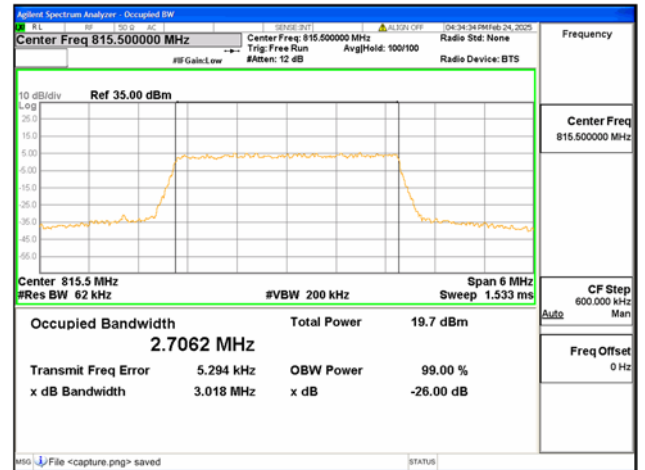
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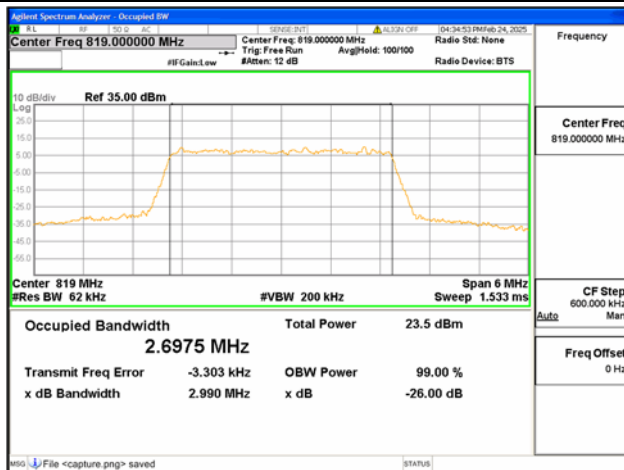
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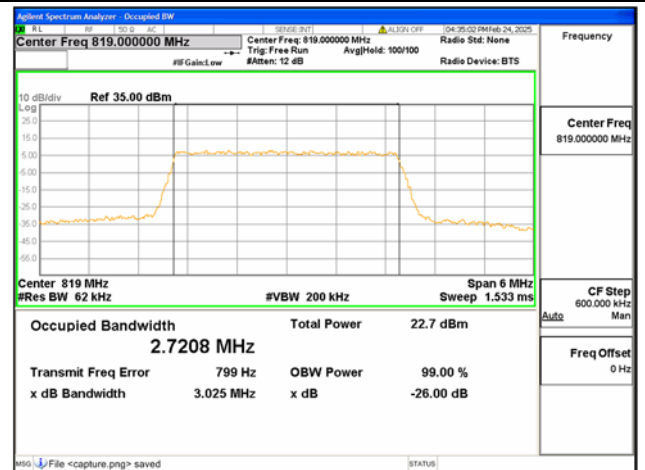
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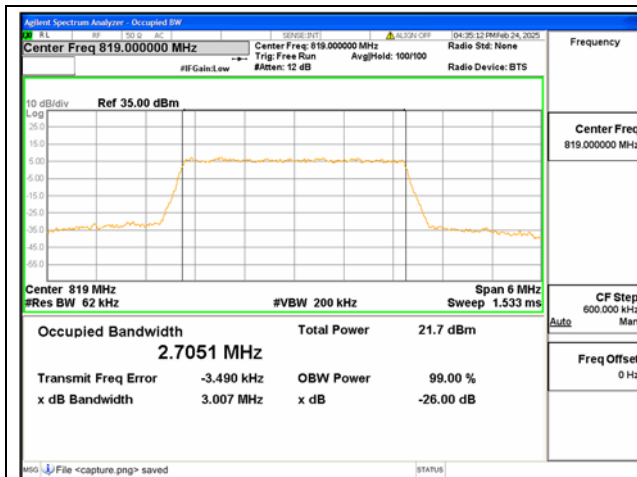
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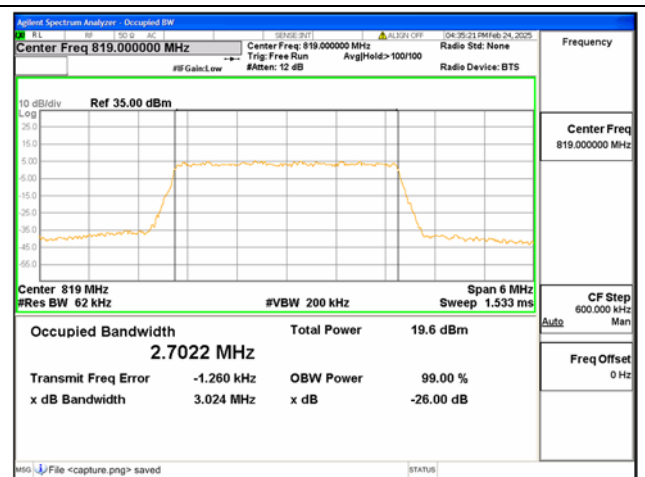
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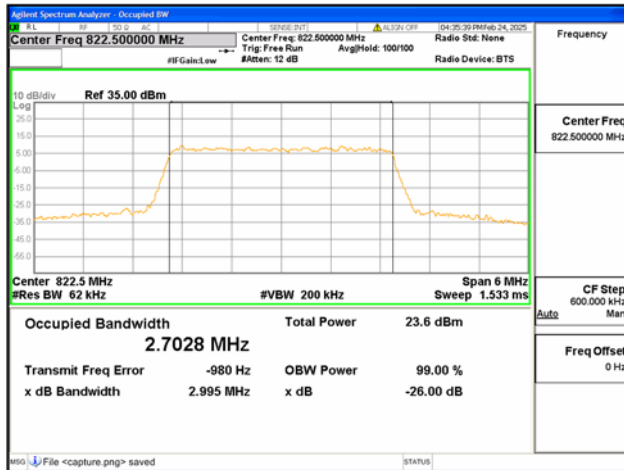
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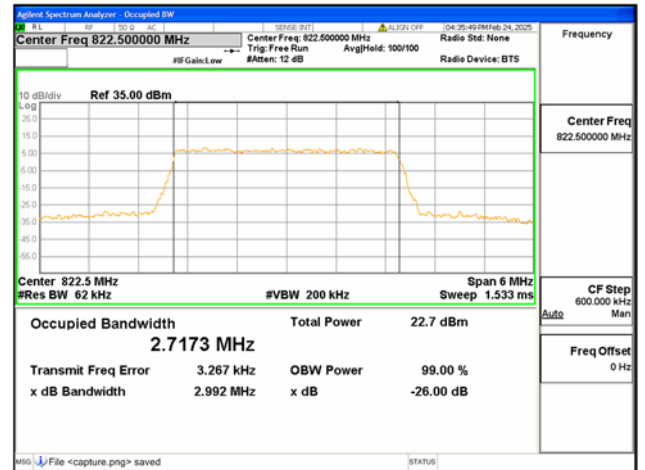
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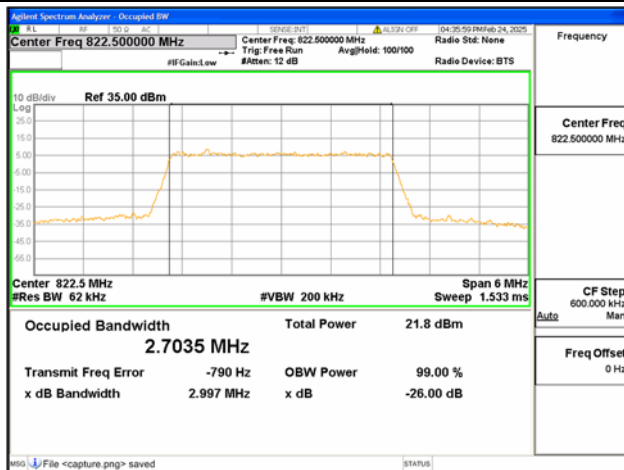
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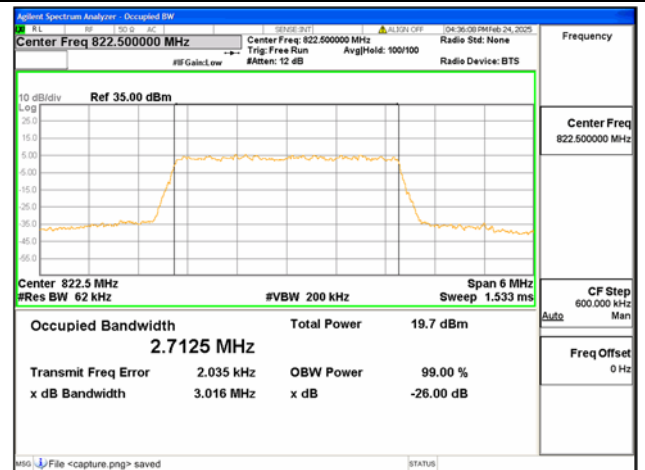
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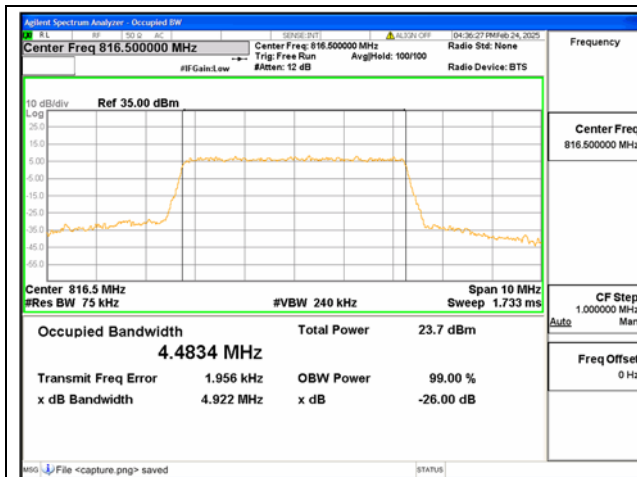
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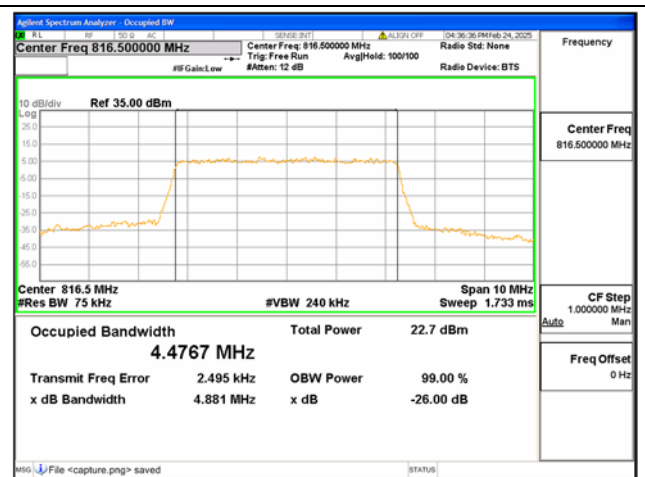
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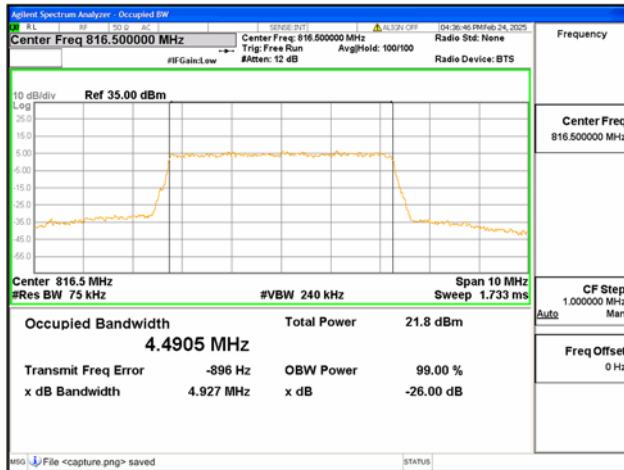
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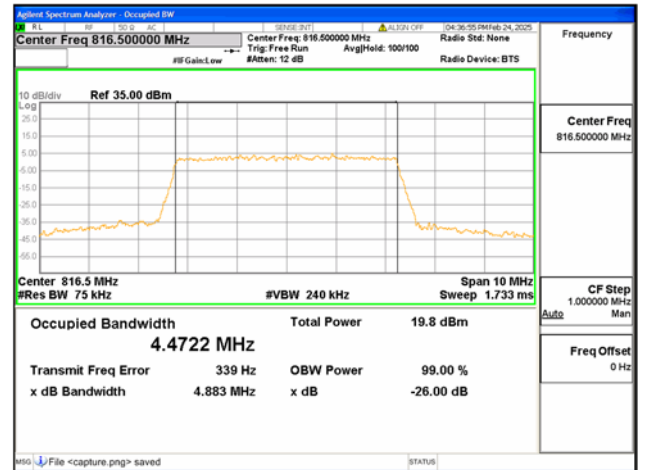
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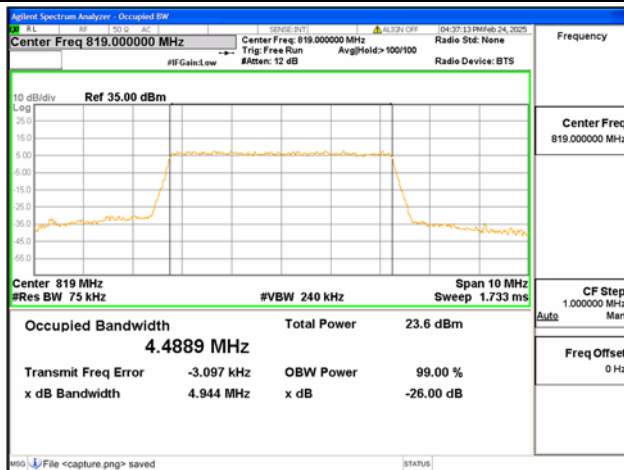
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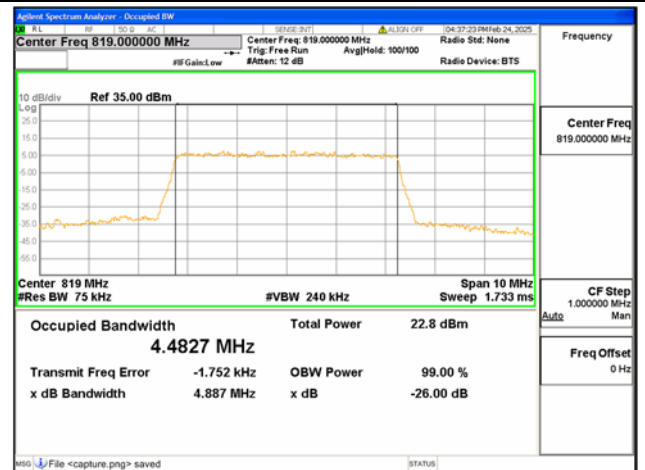
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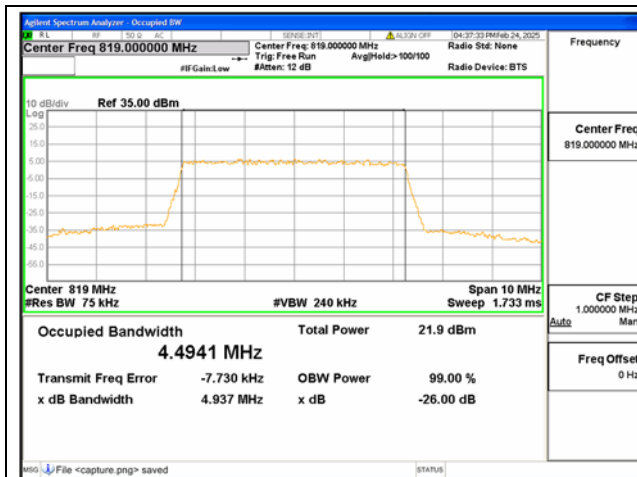
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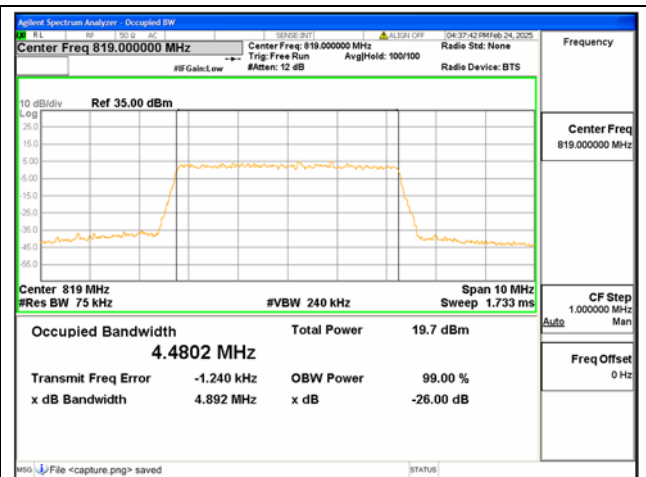
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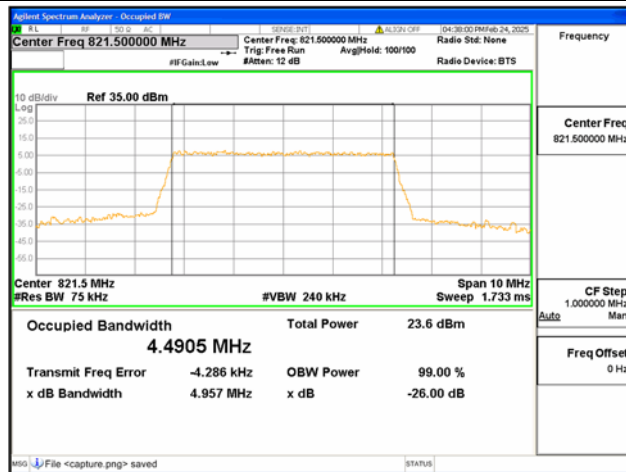
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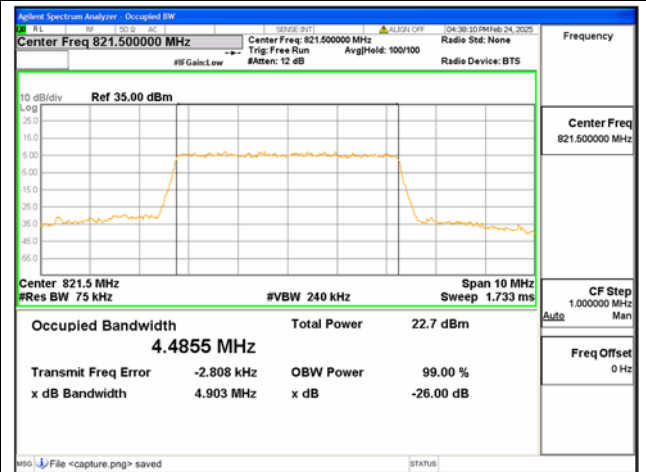
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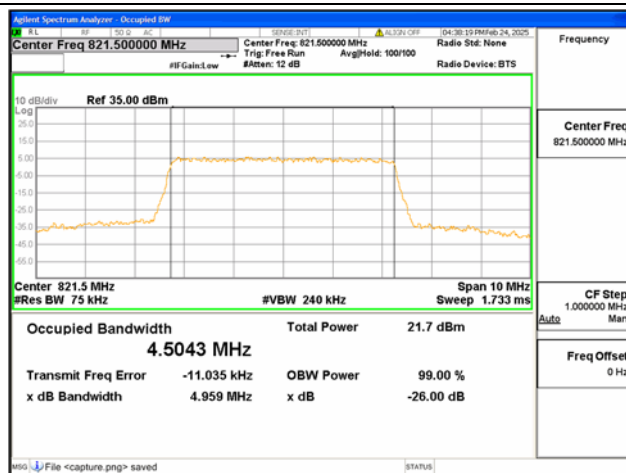
B26 Part90 / 5MHz / 256QAM/ Mid CH



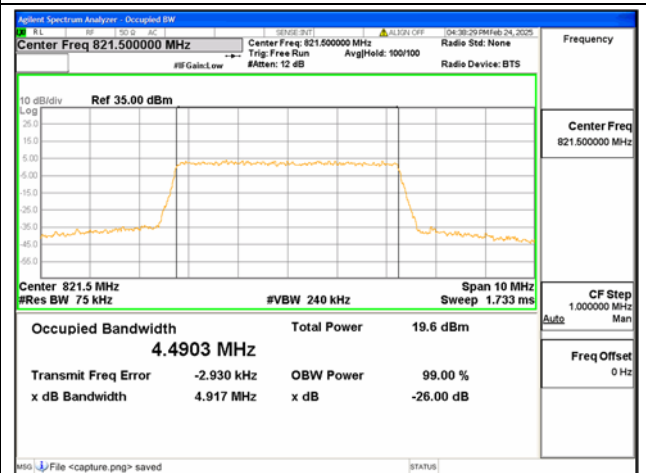
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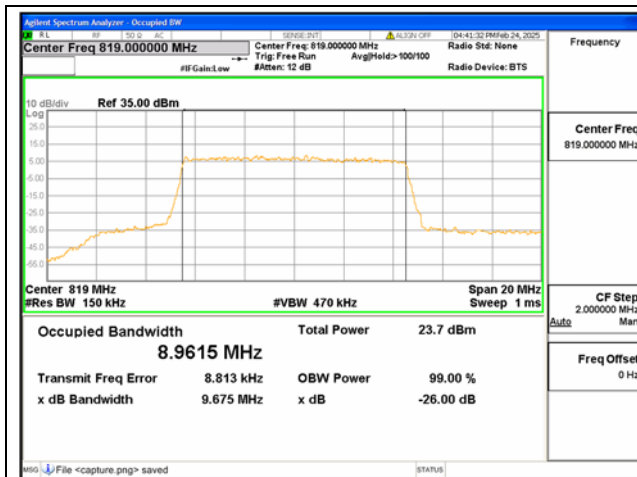
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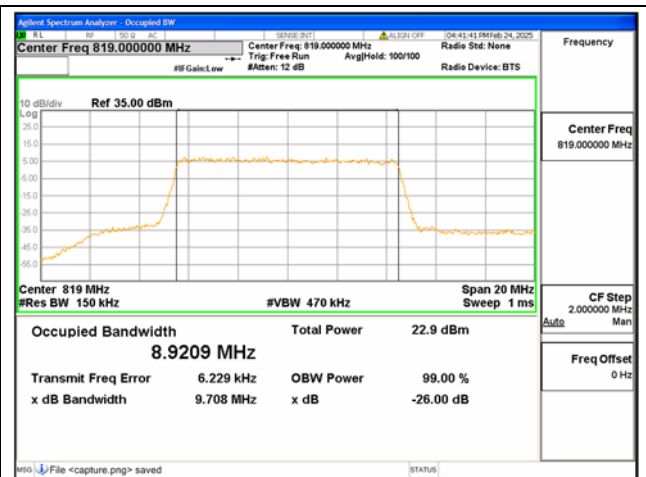
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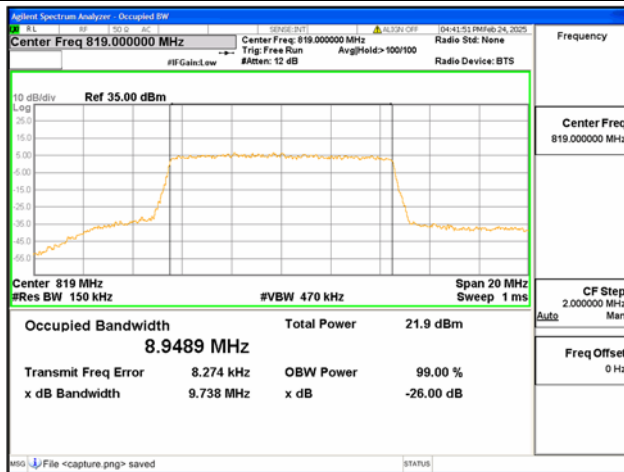
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B26 Part90 / 10MHz / QPSK/ Low CH



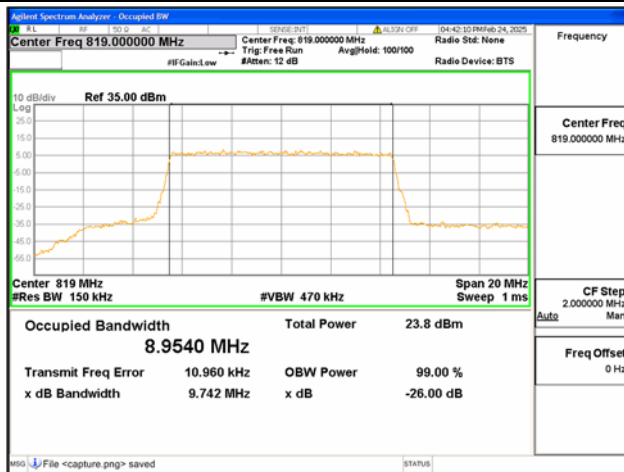
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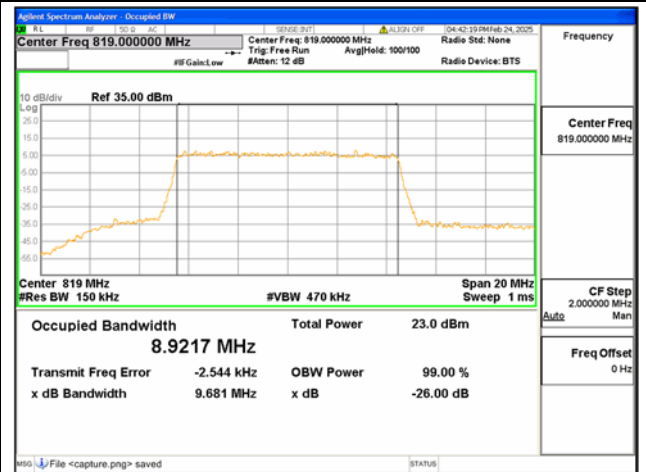
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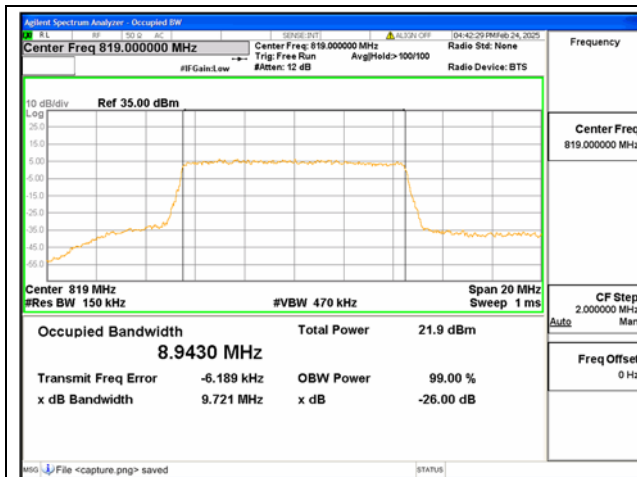
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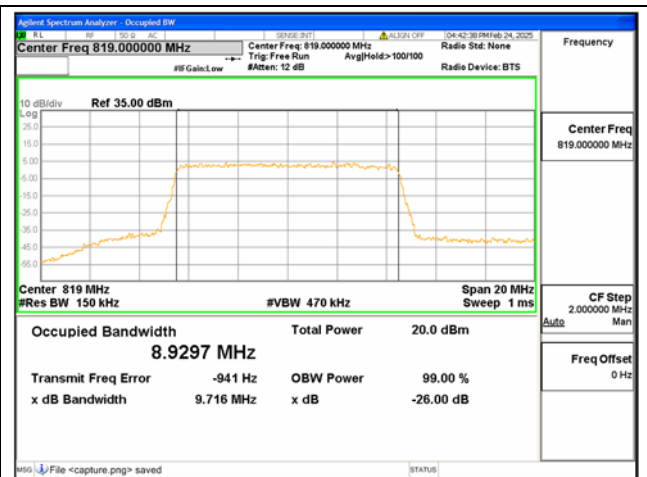
B26 Part90 / 10MHz / QPSK/ Mid CH



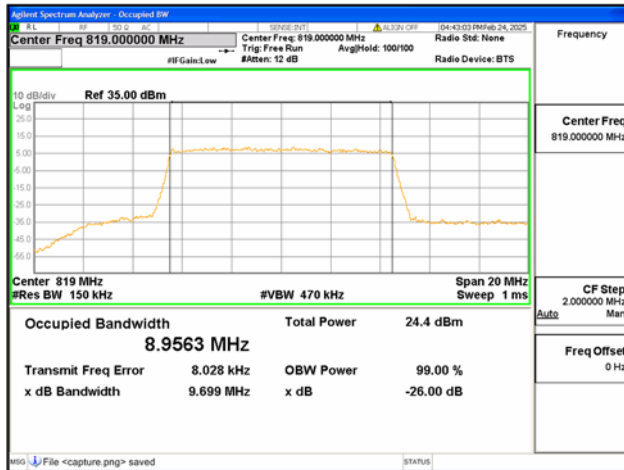
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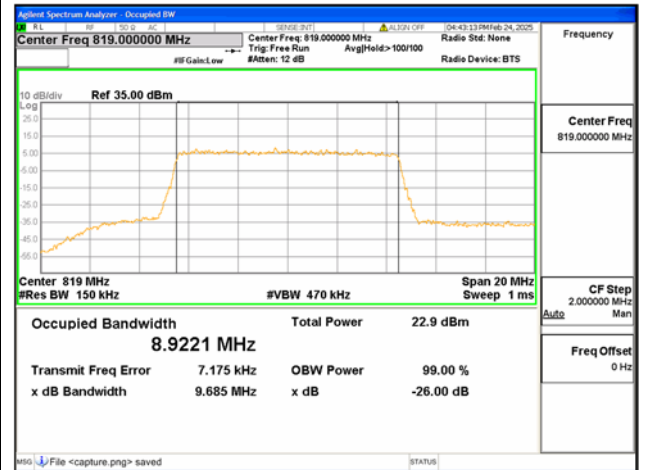
B26 Part90 / 10MHz / 64QAM/ Mid CH



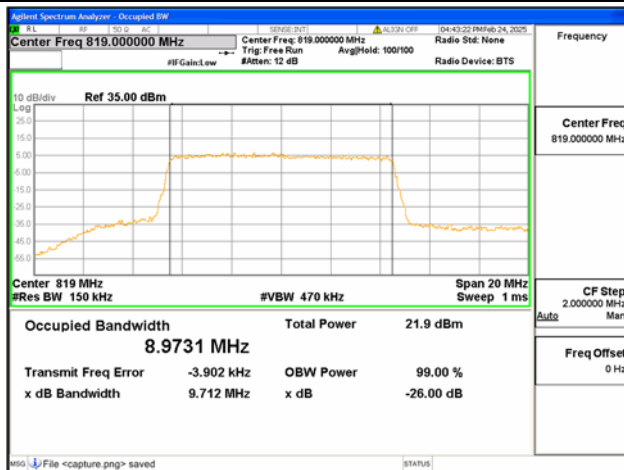
B26 Part90 / 10MHz / 256QAM/ Mid CH



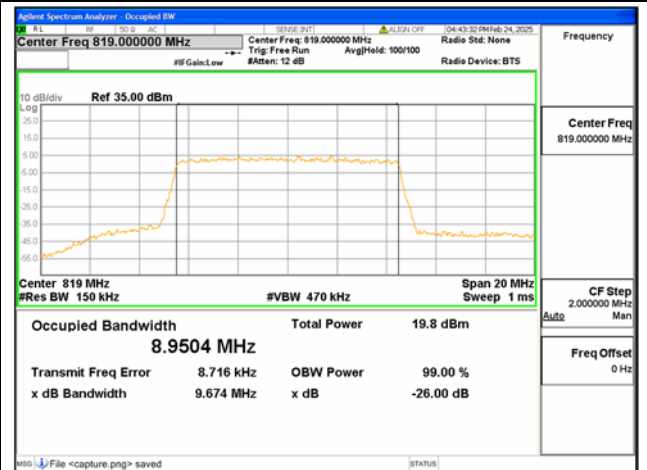
B26 Part90 / 10MHz / QPSK/ High CH



B26 Part90 / 10MHz / 16QAM/ High CH



B26 Part90 / 10MHz / 64QAM/ High CH



B26 Part90 / 10MHz / 256QAM/ High CH

2.3. Frequency Stability

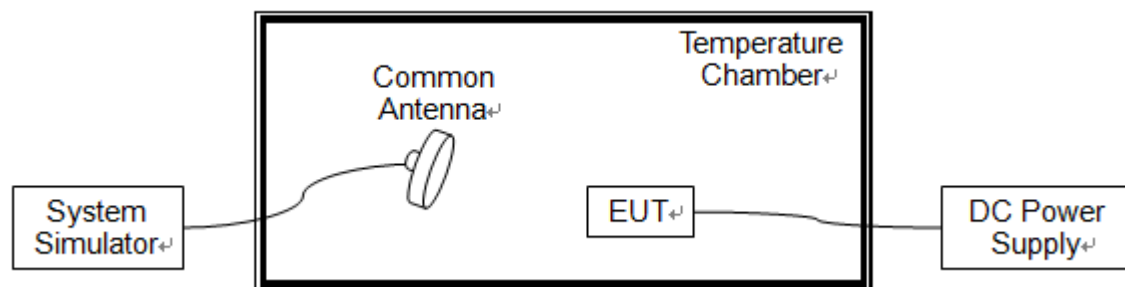
2.3.1. Requirement

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 -10°C to 50°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 3.85V, 4.4V and 3.6V, which are specified by the applicant; the normal temperature here used is 20°C.

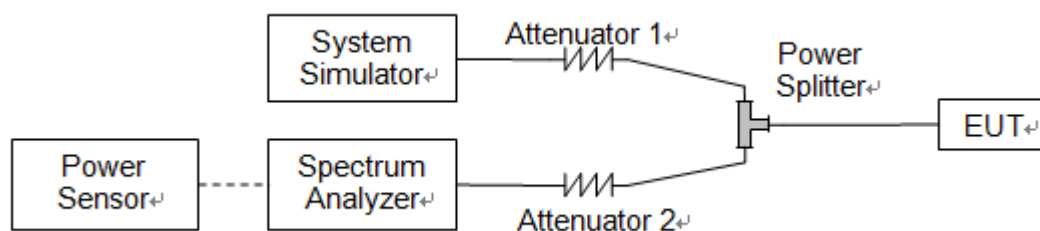
LTE Band 26, 256QAM, Channel 26740, Frequency 819MHz					
Limit =±2.5ppm					
Voltage (%)	Power (VDC)	Temp(°C)	Fre. Dev.(Hz)	Deviation (ppm)	Result
Normal	3.85	+20(Ref)	16	0.020	PASS
Normal		-10	17	0.021	
Normal		0	-7	-0.009	
Normal		+10	14	0.017	
Normal		+20	15	0.018	
Normal		+30	9	0.011	
Normal		+40	17	0.021	
Normal		+50	-19	-0.023	
High	4.4	+20	-16	-0.020	
BATT.ENDPOINT	3.6	+20	23	0.028	

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.

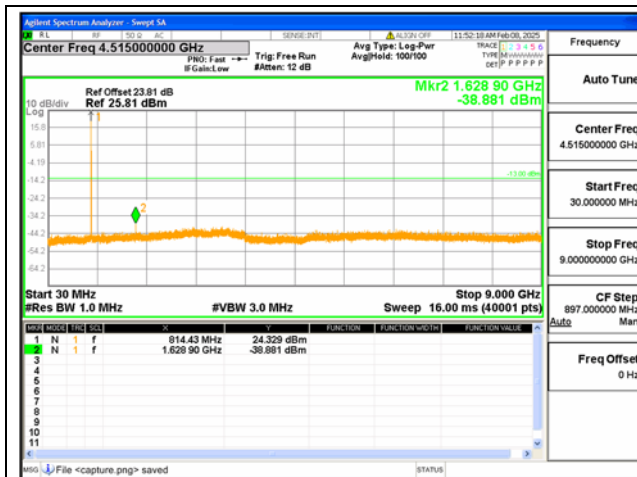
2.4.3. Test procedure

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



2.4.4. Test Result

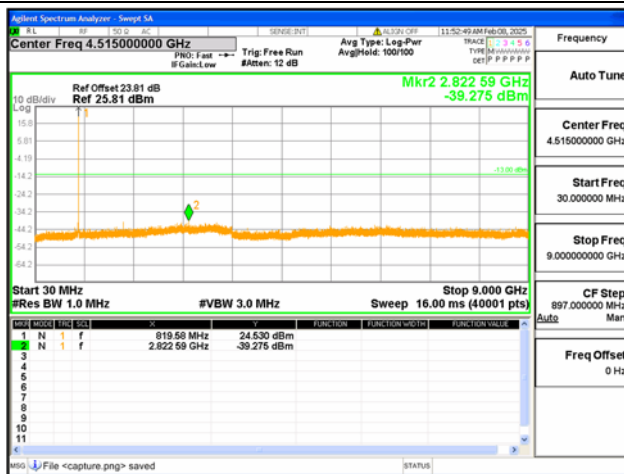




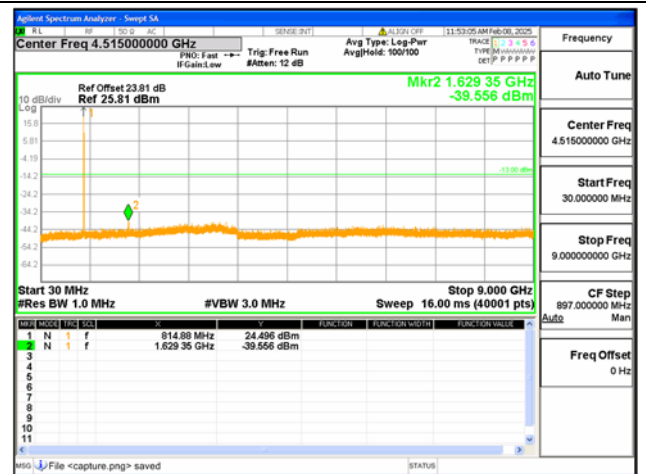
B26 / 5MHz / Low CH / QPSK



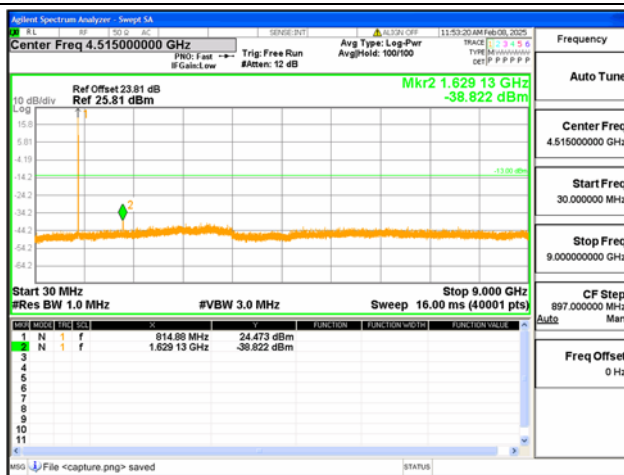
B26 / 5MHz / Mid CH / QPSK



B26 / 5MHz / High CH / QPSK



B26 / 10MHz / Low CH / QPSK



B26 / 10MHz / Mid CH / QPSK



B26 / 10MHz / High CH / QPSK

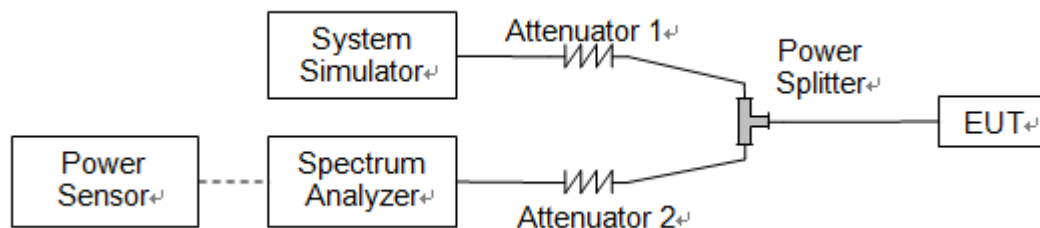
2.5. Band Edge

2.5.1. Requirement

Band26

According to FCC section 90.961(a), the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB.

2.5.2. Test Description



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

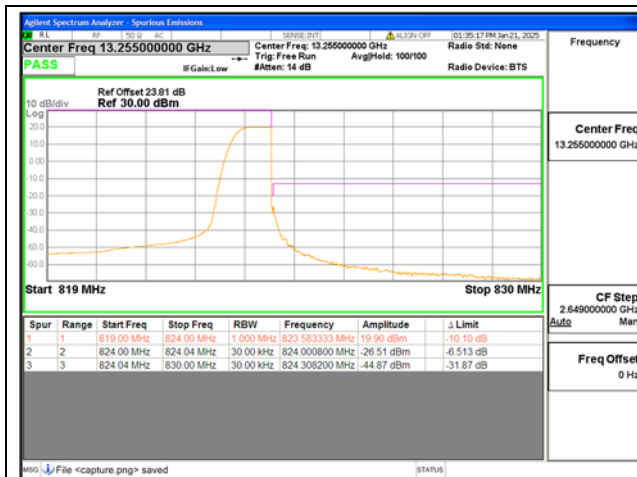
2.5.3. Test procedure

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

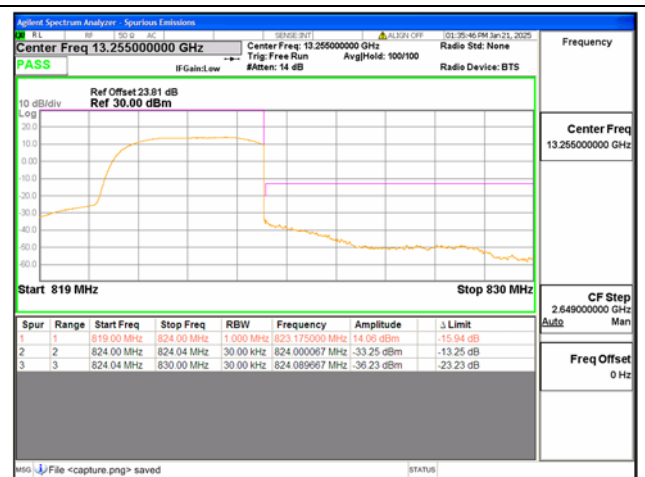


2.5.4. Test Result

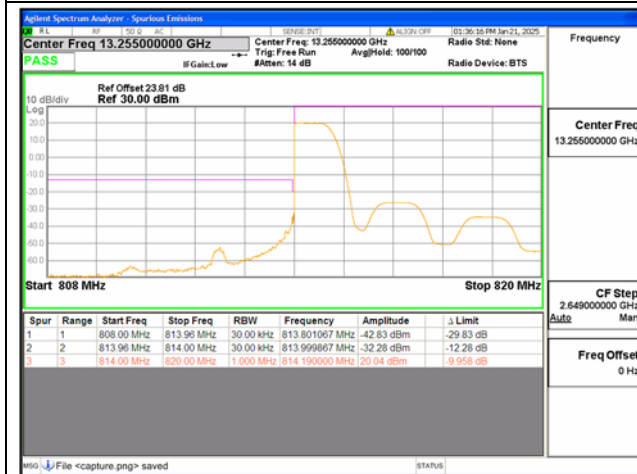




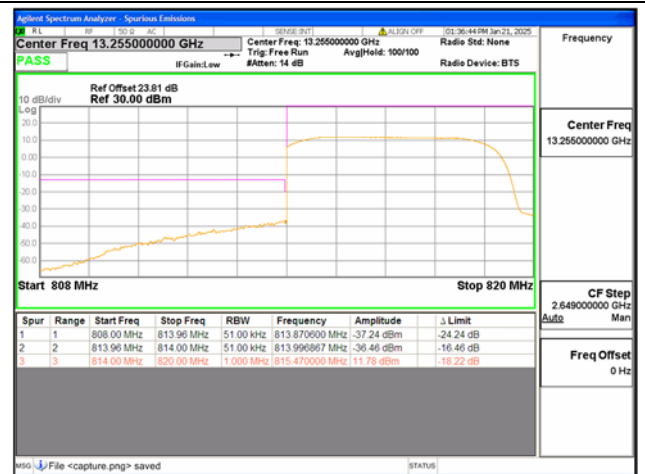
B26 / 3MHz / High CH / QPSK / 1 RB



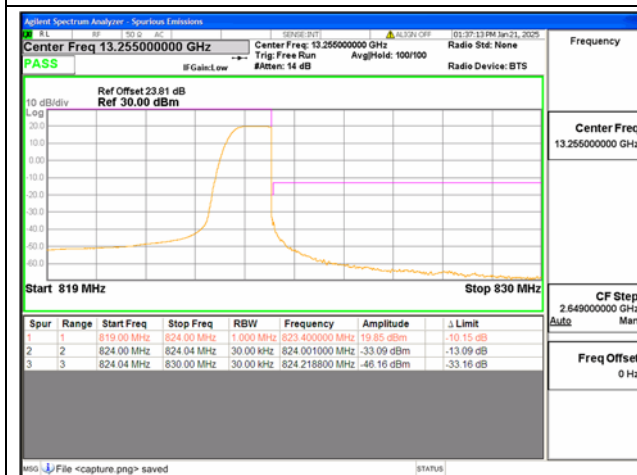
B26 / 3MHz / High CH / QPSK / FULL RB



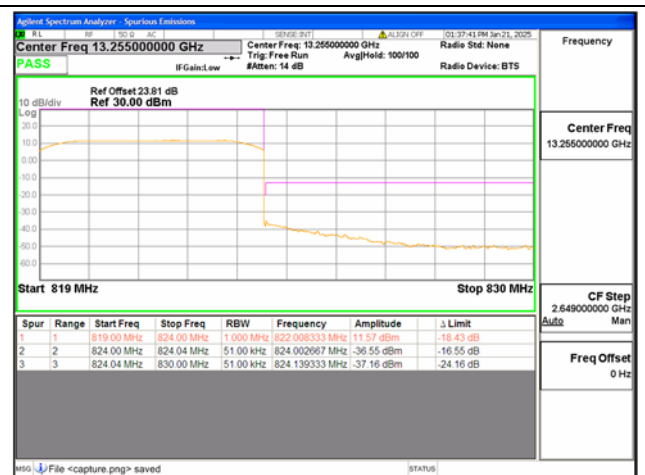
B26 / 5MHz / Low CH / QPSK / 1 RB



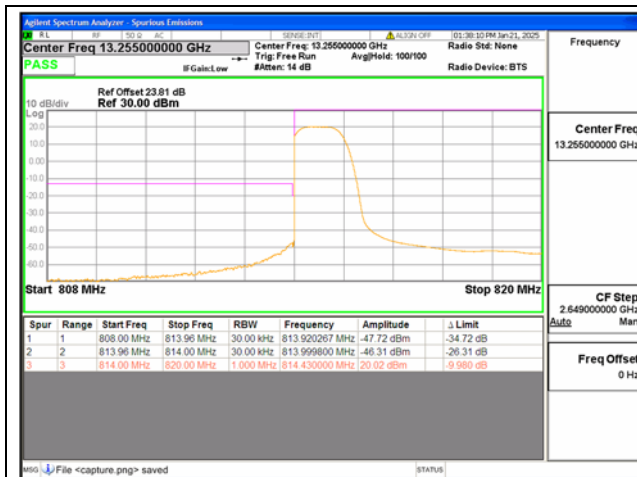
B26 / 5MHz / Low CH / QPSK / FULL RB



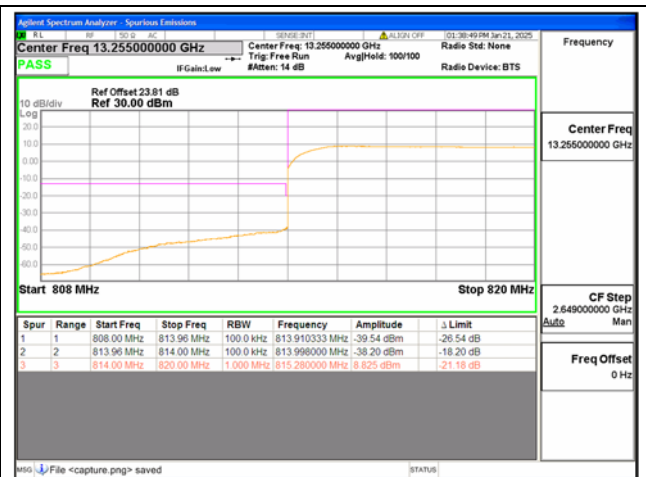
B26 / 5MHz / High CH / QPSK / 1 RB



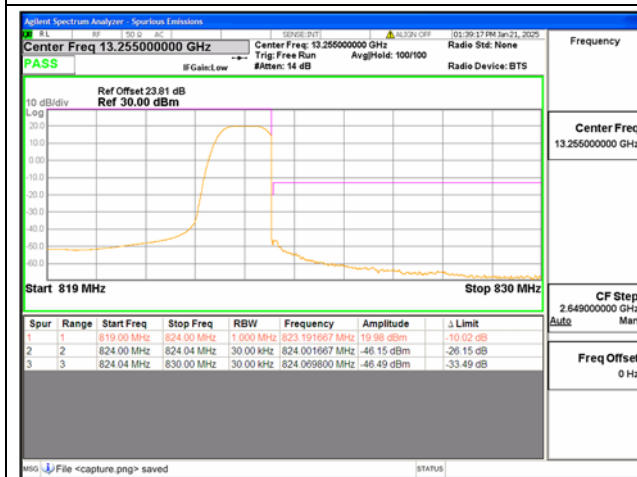
B26 / 5MHz / High CH / QPSK / FULL RB



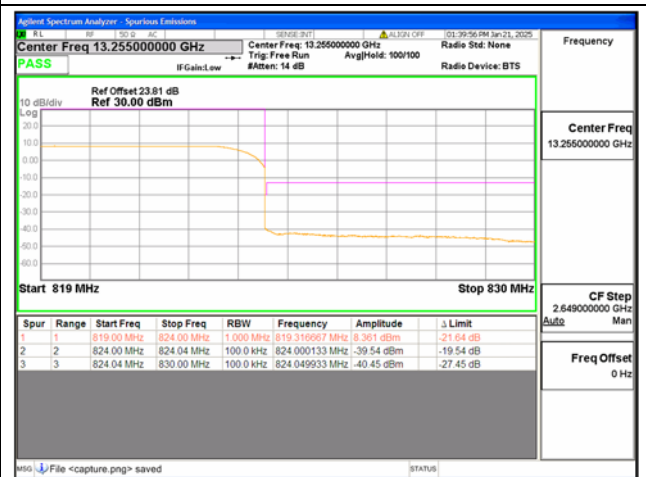
B26 / 10MHz / Low CH / QPSK / 1 RB



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



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



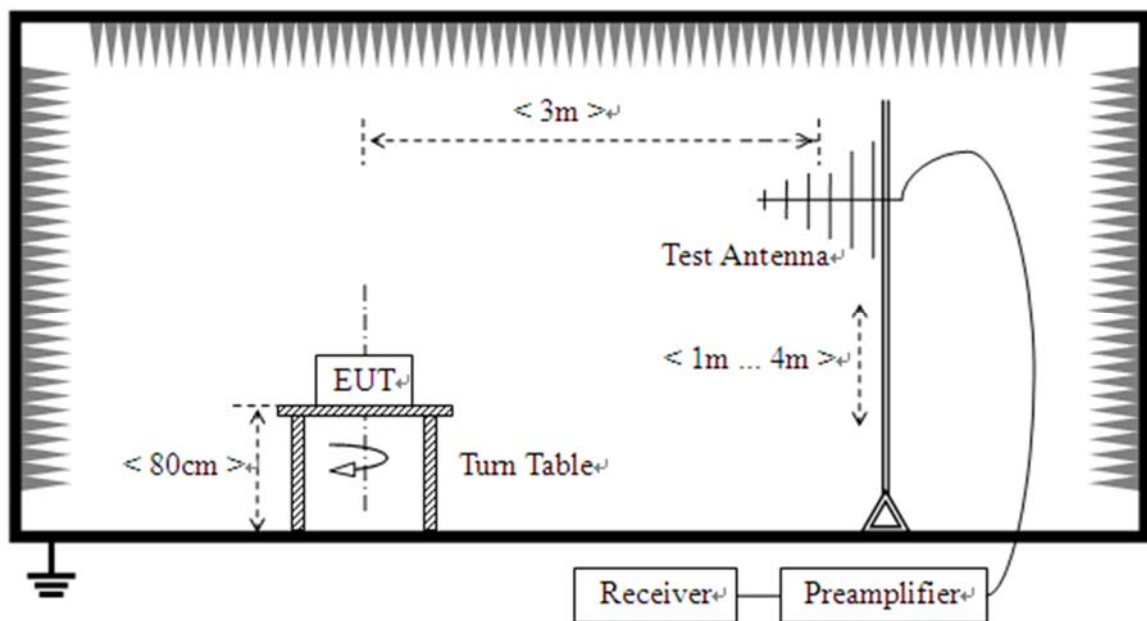
B26 / 10MHz / High CH / QPSK / FULL RB

2.6. Radiated Spurious Emissions

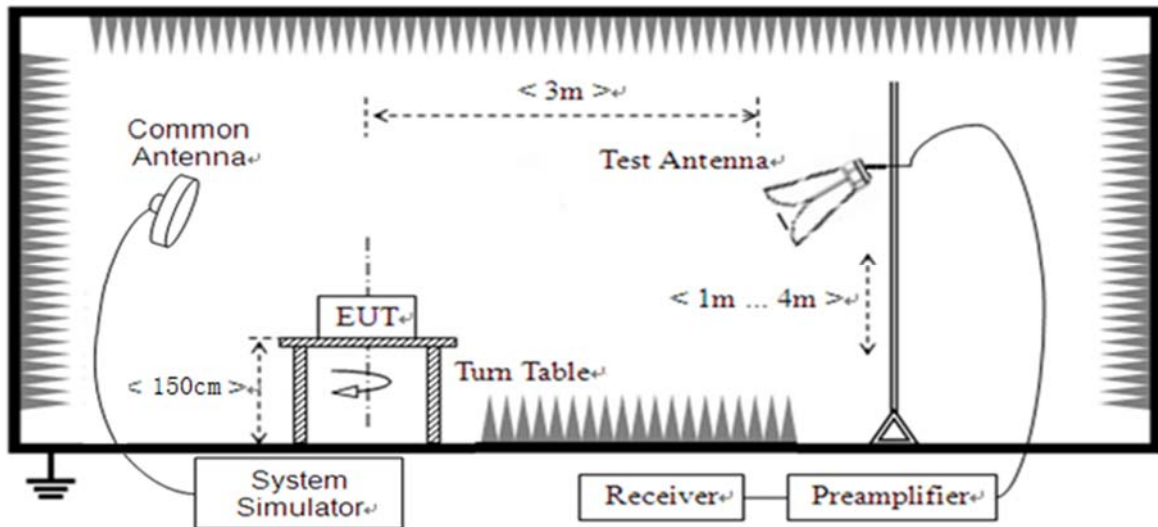
2.6.1. Requirement

According to FCC section 2.1051, the power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43+10\log(P)$ dB. This calculated to be -13dBm.

2.6.2. Test Description



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



(For the test frequency above 1GHz)

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

In the frequency range above 30MHz, Bi-Log Test Antenna (30MHz to 1GHz) and Horn Test Antenna (above 1GHz) are used. Test Antenna is 3m away from the EUT. Test Antenna height is varied from 1m to 4m above the ground and the Turn Table is actuated to turn from 0° to 360° to determine the maximum value of the radiated power. The emission levels at both horizontal and vertical polarizations should be tested. The Filters consists of Notch Filters and High Pass Filter.

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

2.6.3. Test procedure

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

For measurements below 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

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.

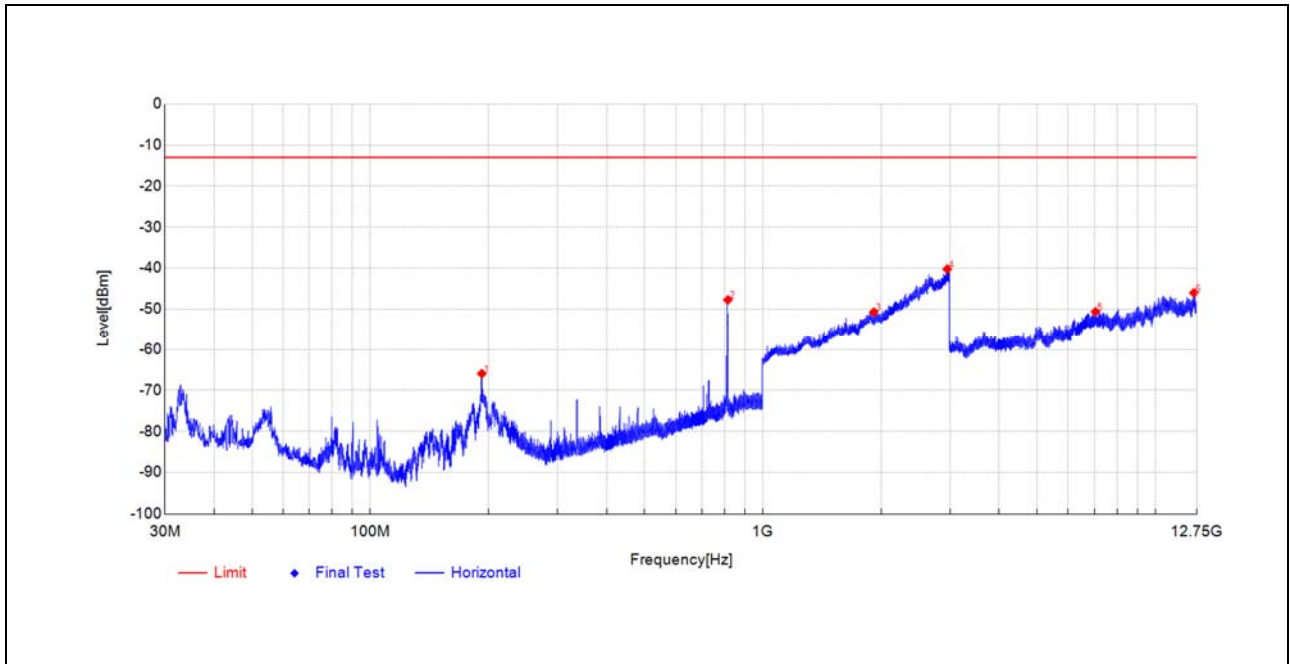
Note 4: N/A means the frequency is the basic frequency or the base station frequency, they are no need to verdict.

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

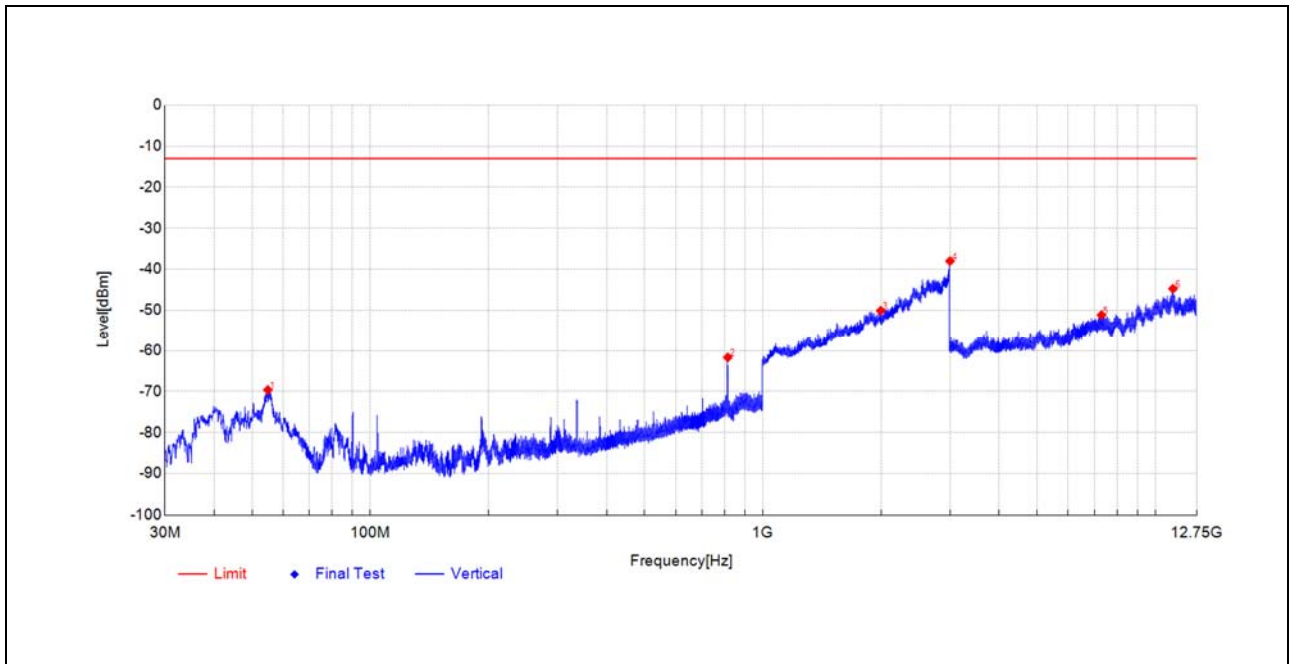


LTE Band 26

Plot for Low Channel

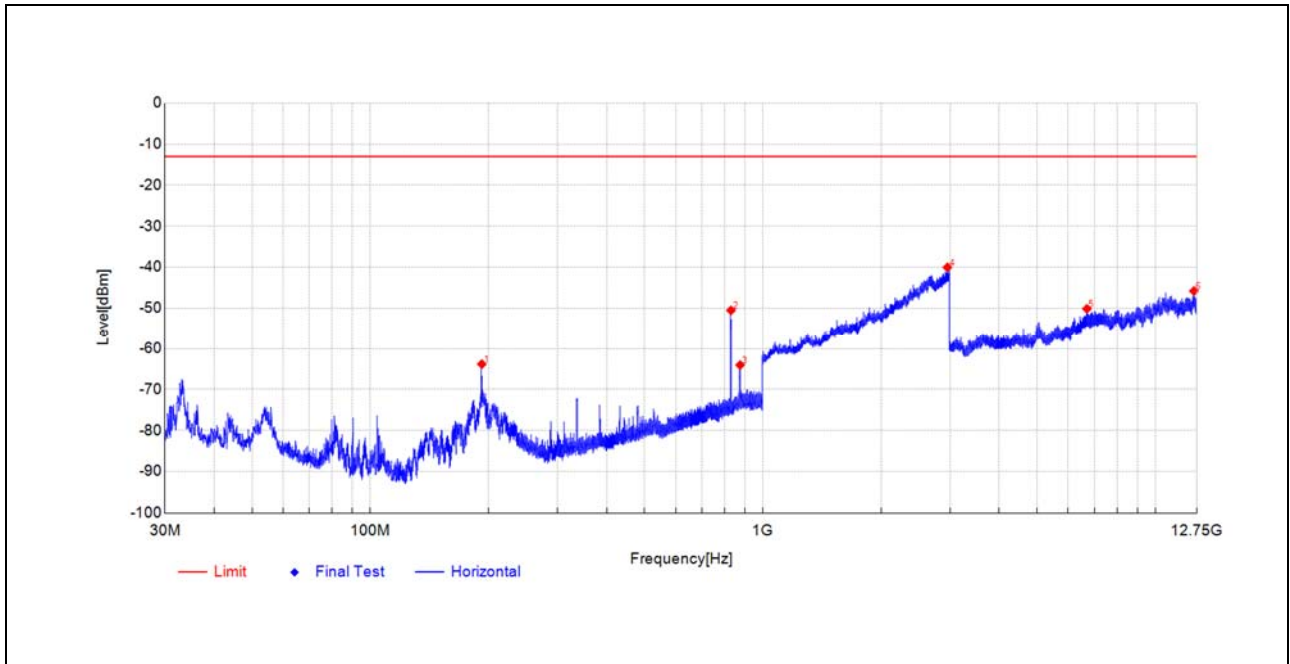


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
192.3861	-47.01	-65.92	-18.9	-13.0	52.9	Horizontal	PK	PASS
814.6722	-41.76	-47.71	-6.0	-	-	Horizontal	PK	NA
1918.5837	-55.59	-50.69	4.9	-13.0	37.7	Horizontal	PK	PASS
2950.3901	-55.11	-40.21	14.9	-13.0	27.2	Horizontal	PK	PASS
7039.627	-62.45	-50.62	11.8	-13.0	37.6	Horizontal	PK	PASS
12538.901	-69.34	-46.00	23.3	-13.0	33.0	Horizontal	PK	PASS

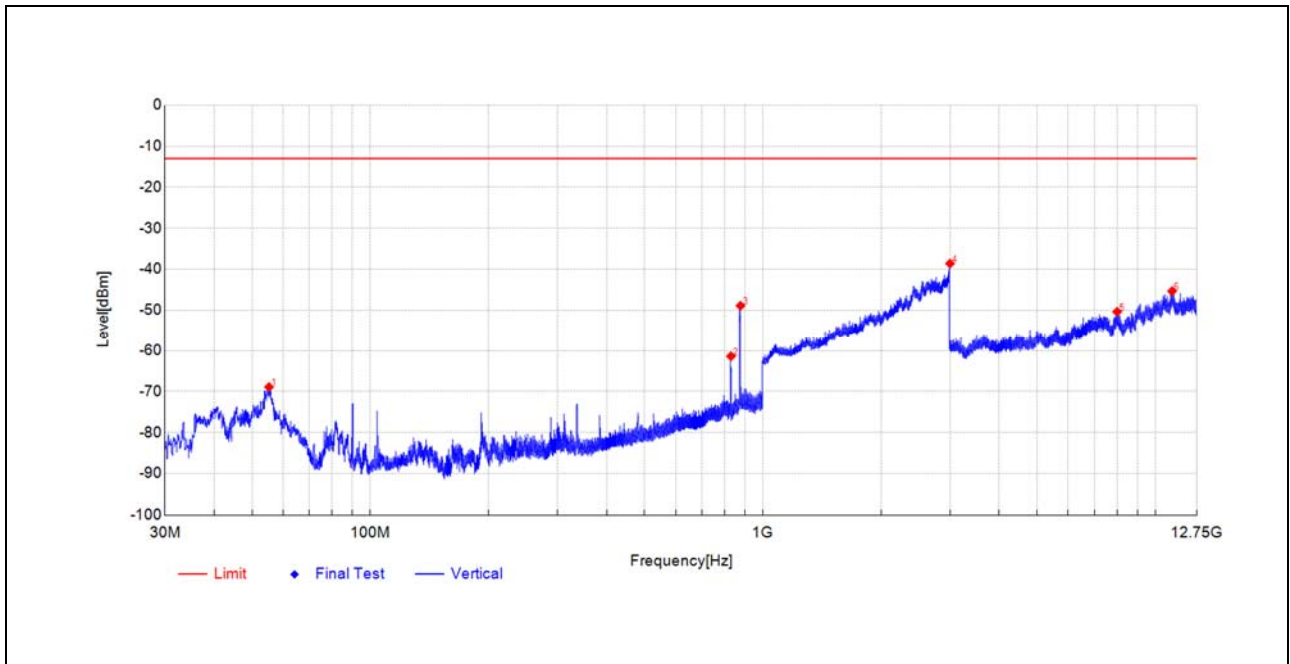


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
54.8332	-52.70	-69.63	-16.9	-13.0	56.6	Vertical	PK	PASS
814.7207	-55.93	-61.68	-5.8	-	-	Vertical	PK	NA
1996.9994	-55.07	-50.07	5.0	-13.0	37.1	Vertical	PK	PASS
2998.3997	-55.06	-37.98	17.1	-13.0	25.0	Vertical	PK	PASS
7293.6272	-63.22	-51.14	12.1	-13.0	38.1	Vertical	PK	PASS
11091.929	-67.11	-44.73	22.4	-13.0	31.7	Vertical	PK	PASS

Plot for Mid Channel

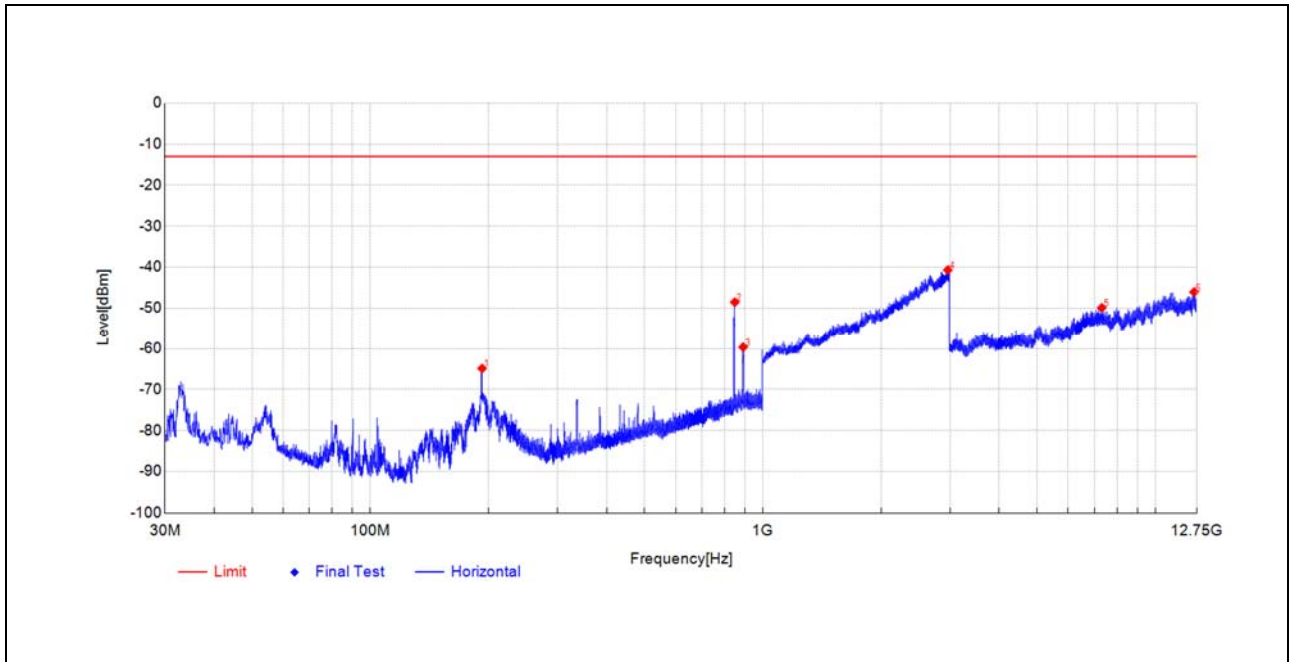


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
192.3861	-44.92	-63.83	-18.9	-13.0	50.8	Horizontal	PK	PASS
829.8535	-44.79	-50.50	-5.7	-	-	Horizontal	PK	NA
875.3488	-59.27	-64.06	-4.8	-	-	Horizontal	PK	NA
2953.9908	-55.10	-40.00	15.1	-13.0	27.0	Horizontal	PK	PASS
6695.9223	-61.53	-50.11	11.4	-13.0	37.1	Horizontal	PK	PASS
12539.877	-69.13	-45.78	23.4	-13.0	32.8	Horizontal	PK	PASS

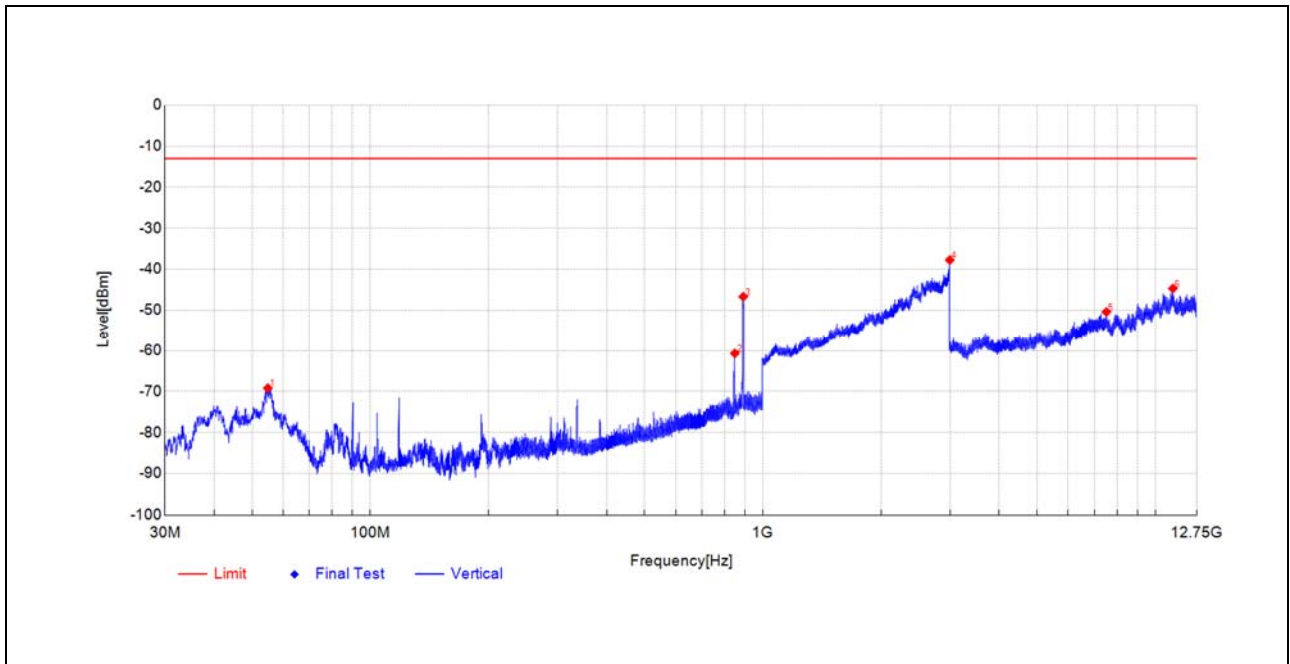


Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
55.2213	-51.99	-68.92	-16.9	-13.0	55.9	Vertical	PK	PASS
829.514	-55.44	-61.41	-6.0	-	-	Vertical	PK	NA
877.2889	-44.28	-48.86	-4.6	-	-	Vertical	PK	NA
2998.7998	-55.72	-38.59	17.1	-13.0	25.6	Vertical	PK	PASS
7995.6623	-63.35	-50.35	13.0	-13.0	37.4	Vertical	PK	PASS
11034.889	-67.45	-45.31	22.1	-13.0	32.3	Vertical	PK	PASS

Plot for High Channel



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
192.6771	-46.02	-64.89	-18.9	-13.0	51.9	Horizontal	PK	PASS
848.4299	-43.30	-48.50	-5.2	-	-	Horizontal	PK	NA
891.0636	-54.99	-59.68	-4.7	-	-	Horizontal	PK	NA
2960.7922	-55.72	-40.66	15.1	-13.0	27.7	Horizontal	PK	PASS
7304.8402	-62.62	-49.88	12.7	-13.0	36.9	Horizontal	PK	PASS
12551.577	-69.36	-46.04	23.3	-13.0	33.0	Horizontal	PK	PASS



Frequency [MHz]	Reading [dBm]	Level [dBm]	Factor [dB]	Limit [dBm]	Margin [dB]	Polarity	Detector	Verdict
54.8332	-52.26	-69.19	-16.9	-13.0	56.2	Vertical	PK	PASS
848.4784	-55.17	-60.70	-5.5	-	-	Vertical	PK	NA
891.5971	-42.23	-46.67	-4.4	-	-	Vertical	PK	NA
2994.799	-54.40	-37.72	16.7	-13.0	24.7	Vertical	PK	PASS
7506.1878	-62.39	-50.40	12.0	-13.0	37.4	Vertical	PK	PASS
11086.566	-67.03	-44.68	22.4	-13.0	31.7	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	$\pm 5\%$
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.



4. Test Equipment Utilized

4.1 Conducted Test Equipment

Equipment	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
MOR-2023E Test System	MORLAB	V7.99
MORLAB EMCR	MORLAB	V1.2

**4.3 Radiated Test Equipment**

Equipment	Serial No.	Type	Manufacturer	Cal. Date	Due Date
System Simulator	152038	CMW500	R&S	2024.09.11	2025.09.10
Signal Analyzer	MY56060145	N9020A	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-KK F-2	Qualwave	2024.07.03	2025.07.02
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
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 _____