



REPORT No.: SZ26040105Y03

TEST REPORT

APPLICANT : Power Idea Technology (Shenzhen)
Co., Ltd.

PRODUCT NAME : POC RADIO

MODEL NAME : PRM01G

BRAND NAME : RugGear

FCC ID : ZLE-PRM01G

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

RECEIPT DATE : 2026-04-14

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Change History		
Version	Date	Reason for change
1.0	2026-09-23	First edition

Note: the latest revision of the report supersedes all previous version.



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Power Idea Technology (Shenzhen) Co., Ltd.
Applicant Address:	B1504, 1505, 1506, 1507, Building 9, Zone 2, Shenzhen Bay Science and Technology Ecological Park, No. 3609 Baishi Road, High tech Zone Community, Yuehai Street, Nanshan District, Shenzhen City, China
Manufacturer:	Power Idea Technology (Shenzhen) Co., Ltd.
Manufacturer Address:	B1504, 1505, 1506, 1507, Building 9, Zone 2, Shenzhen Bay Science and Technology Ecological Park, No. 3609 Baishi Road, High tech Zone Community, Yuehai Street, Nanshan District, Shenzhen City, China

1.2. Equipment Under Test (EUT) Description

Product Name:	POC RADIO	
Sample No.:	9#, 14#	
Hardware Version:	V1	
Software Version:	RG380_V1.0	
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:	Fixed External	
Antenna Gain:	LTE Band 14	-1.60dBi
	LTE Band 18	-1.69dBi



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	LTE Band 26	-2.00dBi
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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	0.078	0.062	0.050	8M99G7D	8M97W7D	8M97W7D
5	0.077	0.065	0.054	4M49G7D	4M49W7D	4M50W7D
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	0.083	0.068	0.052	4M50G7D	4M50W7D	4M51W7D
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	0.083	0.065	0.052	8M98G7D	8M97W7D	8M99W7D
5	0.079	0.064	0.049	4M49G7D	4M50W7D	4M51W7D
3	0.078	0.065	0.049	2M70G7D	2M71W7D	2M71W7D
1.4	0.079	0.064	0.052	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 Engineer	Result	Remark
2.1046, 90.635(b)	Transmitter Conducted Output Power and ERP/EIRP	Zhang Yusheng Liu Huiyan	PASS	/
90.209	Occupied Bandwidth	Liu Huiyan	PASS	/
2.1055, 90.213	Frequency Stability	Liu Huiyan	PASS	/
2.1051, 90.691	Conducted Spurious Emissions	Liu Huiyan	PASS	/
2.1051, 90.691	Band Edge	Liu Huiyan	PASS	/
2.1053, 90.691	Radiated Spurious Emissions	Zhong Xiangyun Li Hanbin	PASS	/

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

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

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



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&R Requirements

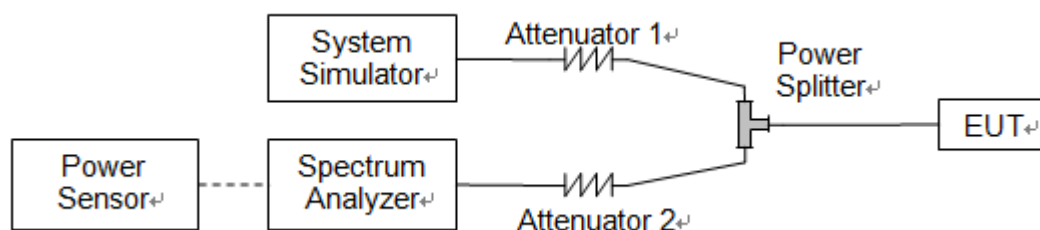
2.1. Transmitter Conducted Output Power and E.R.P./E.I.R.P.

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 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	/	22.66	/
10	QPSK	1	25	/	22.52	/
10	QPSK	1	49	/	22.31	/
10	QPSK	25	0	/	21.56	/
10	QPSK	25	12	/	21.38	/
10	QPSK	25	25	/	21.17	/
10	QPSK	50	0	/	21.05	/
10	16QAM	1	0	/	21.66	/
10	16QAM	1	25	/	21.46	/
10	16QAM	1	49	/	21.27	/
10	16QAM	25	0	/	20.59	/
10	16QAM	25	12	/	20.43	/
10	16QAM	25	25	/	20.23	/
10	16QAM	50	0	/	20.06	/
10	64QAM	1	0	/	20.71	/
10	64QAM	1	25	/	20.65	/
10	64QAM	1	49	/	20.65	/
10	64QAM	25	0	/	19.96	/
10	64QAM	25	12	/	19.92	/
10	64QAM	25	25	/	19.90	/
10	64QAM	50	0	/	19.88	/



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	22.58	22.60	22.57
5	QPSK	1	12	22.46	22.43	22.48
5	QPSK	1	24	22.24	22.16	22.33
5	QPSK	12	0	21.54	21.41	21.65
5	QPSK	12	7	21.44	21.27	21.48
5	QPSK	12	13	21.25	21.07	21.37
5	QPSK	25	0	21.07	20.91	21.20
5	16QAM	1	0	21.67	21.53	21.87
5	16QAM	1	12	21.43	21.36	21.69
5	16QAM	1	24	21.26	21.14	21.59
5	16QAM	12	0	20.64	20.48	20.87
5	16QAM	12	7	20.43	20.32	20.74
5	16QAM	12	13	20.27	20.11	20.59
5	16QAM	25	0	20.04	19.94	20.45
5	64QAM	1	0	20.66	20.59	21.09
5	64QAM	1	12	20.62	20.50	21.05
5	64QAM	1	24	20.60	20.51	21.01
5	64QAM	12	0	19.92	19.81	20.29
5	64QAM	12	7	19.93	19.82	20.23
5	64QAM	12	13	19.91	19.79	20.18
5	64QAM	25	0	19.82	19.74	20.15



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	23.00	23.01	23.03
5	QPSK	1	12	22.87	22.89	22.93
5	QPSK	1	24	23.01	22.99	22.97
5	QPSK	12	0	21.96	21.98	22.00
5	QPSK	12	7	22.00	22.02	22.07
5	QPSK	12	13	21.94	22.04	22.07
5	QPSK	25	0	22.00	22.08	22.01
5	16QAM	1	0	22.07	22.07	22.15
5	16QAM	1	12	22.12	22.01	22.14
5	16QAM	1	24	22.04	22.10	22.02
5	16QAM	12	0	21.01	20.99	20.99
5	16QAM	12	7	21.04	21.05	21.04
5	16QAM	12	13	21.03	21.08	21.16
5	16QAM	25	0	21.03	20.79	20.81
5	64QAM	1	0	20.97	20.75	20.85
5	64QAM	1	12	20.85	20.72	20.85
5	64QAM	1	24	20.81	20.71	20.63
5	64QAM	12	0	20.08	20.15	19.96
5	64QAM	12	7	20.07	20.07	20.02
5	64QAM	12	13	19.98	20.07	20.05
5	64QAM	25	0	20.07	20.08	20.01



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	/
10	QPSK	1	0	/	23.24	/
10	QPSK	1	25	/	22.81	/
10	QPSK	1	49	/	23.33	/
10	QPSK	25	0	/	21.99	/
10	QPSK	25	12	/	21.99	/
10	QPSK	25	25	/	22.13	/
10	QPSK	50	0	/	22.05	/
10	16QAM	1	0	/	22.29	/
10	16QAM	1	25	/	22.11	/
10	16QAM	1	49	/	22.31	/
10	16QAM	25	0	/	20.90	/
10	16QAM	25	12	/	20.93	/
10	16QAM	25	25	/	21.09	/
10	16QAM	50	0	/	21.11	/
10	64QAM	1	0	/	21.31	/
10	64QAM	1	25	/	20.87	/
10	64QAM	1	49	/	21.30	/
10	64QAM	25	0	/	20.04	/
10	64QAM	25	12	/	20.05	/
10	64QAM	25	25	/	20.26	/
10	64QAM	50	0	/	20.13	/



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	821.5
5	QPSK	1	0	22.94	22.80	22.96
5	QPSK	1	12	22.62	22.76	22.94
5	QPSK	1	24	22.88	23.10	22.97
5	QPSK	12	0	22.06	22.05	21.97
5	QPSK	12	7	21.98	21.99	22.02
5	QPSK	12	13	22.02	21.97	22.12
5	QPSK	25	0	22.09	21.96	22.05
5	16QAM	1	0	22.13	22.05	22.18
5	16QAM	1	12	21.82	22.06	22.08
5	16QAM	1	24	22.05	22.08	22.07
5	16QAM	12	0	21.05	21.11	21.01
5	16QAM	12	7	20.89	21.02	21.04
5	16QAM	12	13	21.04	21.05	21.09
5	16QAM	25	0	21.03	20.92	20.97
5	64QAM	1	0	20.83	20.69	21.05
5	64QAM	1	12	20.80	21.02	20.91
5	64QAM	1	24	20.77	20.86	20.80
5	64QAM	12	0	20.14	20.07	20.03
5	64QAM	12	7	20.03	20.04	20.15
5	64QAM	12	13	20.10	20.07	20.14
5	64QAM	25	0	20.11	19.99	20.04



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	822.5
3	QPSK	1	0	23.01	22.95	22.91
3	QPSK	1	8	22.99	22.93	23.08
3	QPSK	1	14	22.90	22.98	22.95
3	QPSK	8	0	22.08	21.97	22.00
3	QPSK	8	4	21.96	21.97	22.12
3	QPSK	8	7	21.96	22.06	22.07
3	QPSK	15	0	21.97	21.91	22.15
3	16QAM	1	0	22.27	22.09	22.21
3	16QAM	1	8	22.26	22.11	22.18
3	16QAM	1	14	22.03	22.08	22.02
3	16QAM	8	0	21.04	21.03	21.10
3	16QAM	8	4	21.00	21.00	21.14
3	16QAM	8	7	21.00	21.14	21.05
3	16QAM	15	0	21.05	21.09	21.09
3	64QAM	1	0	20.90	20.82	20.77
3	64QAM	1	8	20.83	20.90	21.05
3	64QAM	1	14	20.72	20.76	20.98
3	64QAM	8	0	20.18	20.06	20.11
3	64QAM	8	4	20.08	20.02	20.16
3	64QAM	8	7	20.11	20.07	20.09
3	64QAM	15	0	20.00	19.99	20.20



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	823.3
1.4	QPSK	1	0	22.98	22.98	22.93
1.4	QPSK	1	3	23.01	22.95	23.07
1.4	QPSK	1	5	22.88	23.01	22.96
1.4	QPSK	3	0	23.05	22.94	22.99
1.4	QPSK	3	1	23.10	22.93	23.05
1.4	QPSK	3	3	23.06	23.04	22.97
1.4	QPSK	6	0	22.12	21.88	22.06
1.4	16QAM	1	0	22.04	21.98	22.01
1.4	16QAM	1	3	22.02	22.07	22.08
1.4	16QAM	1	5	22.03	22.03	22.02
1.4	16QAM	3	0	22.17	21.96	22.05
1.4	16QAM	3	1	22.18	22.03	22.06
1.4	16QAM	3	3	22.07	22.03	21.96
1.4	16QAM	6	0	21.11	21.01	21.00
1.4	64QAM	1	0	20.70	20.89	20.86
1.4	64QAM	1	3	20.89	20.84	21.05
1.4	64QAM	1	5	20.55	20.92	20.70
1.4	64QAM	3	0	21.20	21.10	21.14
1.4	64QAM	3	1	21.27	21.07	21.13
1.4	64QAM	3	3	21.19	21.07	21.04
1.4	64QAM	6	0	20.03	19.95	20.12

**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	/	/	18.91	0.078	/	/
10	QPSK	1	25	/	/	18.77	0.075	/	/
10	QPSK	1	49	/	/	18.56	0.072	/	/
10	QPSK	25	0	/	/	17.81	0.060	/	/
10	QPSK	25	12	/	/	17.63	0.058	/	/
10	QPSK	25	25	/	/	17.42	0.055	/	/
10	QPSK	50	0	/	/	17.30	0.054	/	/
10	16QAM	1	0	/	/	17.91	0.062	/	/
10	16QAM	1	25	/	/	17.71	0.059	/	/
10	16QAM	1	49	/	/	17.52	0.056	/	/
10	16QAM	25	0	/	/	16.84	0.048	/	/
10	16QAM	25	12	/	/	16.68	0.047	/	/
10	16QAM	25	25	/	/	16.48	0.044	/	/
10	16QAM	50	0	/	/	16.31	0.043	/	/
10	64QAM	1	0	/	/	16.96	0.050	/	/
10	64QAM	1	25	/	/	16.90	0.049	/	/
10	64QAM	1	49	/	/	16.90	0.049	/	/
10	64QAM	25	0	/	/	16.21	0.042	/	/
10	64QAM	25	12	/	/	16.17	0.041	/	/
10	64QAM	25	25	/	/	16.15	0.041	/	/
10	64QAM	50	0	/	/	16.13	0.041	/	/



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	18.83	0.076	18.85	0.077	18.82	0.076
5	QPSK	1	12	18.71	0.074	18.68	0.074	18.73	0.075
5	QPSK	1	24	18.49	0.071	18.41	0.069	18.58	0.072
5	QPSK	12	0	17.79	0.060	17.66	0.058	17.90	0.062
5	QPSK	12	7	17.69	0.059	17.52	0.056	17.73	0.059
5	QPSK	12	13	17.50	0.056	17.32	0.054	17.62	0.058
5	QPSK	25	0	17.32	0.054	17.16	0.052	17.45	0.056
5	16QAM	1	0	17.92	0.062	17.78	0.060	18.12	0.065
5	16QAM	1	12	17.68	0.059	17.61	0.058	17.94	0.062
5	16QAM	1	24	17.51	0.056	17.39	0.055	17.84	0.061
5	16QAM	12	0	16.89	0.049	16.73	0.047	17.12	0.052
5	16QAM	12	7	16.68	0.047	16.57	0.045	16.99	0.050
5	16QAM	12	13	16.52	0.045	16.36	0.043	16.84	0.048
5	16QAM	25	0	16.29	0.043	16.19	0.042	16.70	0.047
5	64QAM	1	0	16.91	0.049	16.84	0.048	17.34	0.054
5	64QAM	1	12	16.87	0.049	16.75	0.047	17.30	0.054
5	64QAM	1	24	16.85	0.048	16.76	0.047	17.26	0.053
5	64QAM	12	0	16.17	0.041	16.06	0.040	16.54	0.045
5	64QAM	12	7	16.18	0.041	16.07	0.040	16.48	0.044
5	64QAM	12	13	16.16	0.041	16.04	0.040	16.43	0.044
5	64QAM	25	0	16.07	0.040	15.99	0.040	16.40	0.044



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	19.16	0.082	19.17	0.083	19.19	0.083
5	QPSK	1	12	19.03	0.080	19.05	0.080	19.09	0.081
5	QPSK	1	24	19.17	0.083	19.15	0.082	19.13	0.082
5	QPSK	12	0	18.12	0.065	18.14	0.065	18.16	0.065
5	QPSK	12	7	18.16	0.065	18.18	0.066	18.23	0.067
5	QPSK	12	13	18.10	0.065	18.20	0.066	18.23	0.067
5	QPSK	25	0	18.16	0.065	18.24	0.067	18.17	0.066
5	16QAM	1	0	18.23	0.067	18.23	0.067	18.31	0.068
5	16QAM	1	12	18.28	0.067	18.17	0.066	18.30	0.068
5	16QAM	1	24	18.20	0.066	18.26	0.067	18.18	0.066
5	16QAM	12	0	17.17	0.052	17.15	0.052	17.15	0.052
5	16QAM	12	7	17.20	0.052	17.21	0.053	17.20	0.052
5	16QAM	12	13	17.19	0.052	17.24	0.053	17.32	0.054
5	16QAM	25	0	17.19	0.052	16.95	0.050	16.97	0.050
5	64QAM	1	0	17.13	0.052	16.91	0.049	17.01	0.050
5	64QAM	1	12	17.01	0.050	16.88	0.049	17.01	0.050
5	64QAM	1	24	16.97	0.050	16.87	0.049	16.79	0.048
5	64QAM	12	0	16.24	0.042	16.31	0.043	16.12	0.041
5	64QAM	12	7	16.23	0.042	16.23	0.042	16.18	0.041
5	64QAM	12	13	16.14	0.041	16.23	0.042	16.21	0.042
5	64QAM	25	0	16.23	0.042	16.24	0.042	16.17	0.041



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	/	18.66	0.073	/
10	QPSK	1	49	/	19.18	0.083	/
10	QPSK	25	0	/	17.84	0.061	/
10	QPSK	25	12	/	17.84	0.061	/
10	QPSK	25	25	/	17.98	0.063	/
10	QPSK	50	0	/	17.90	0.062	/
10	16QAM	1	0	/	18.14	0.065	/
10	16QAM	1	25	/	17.96	0.063	/
10	16QAM	1	49	/	18.16	0.065	/
10	16QAM	25	0	/	16.75	0.047	/
10	16QAM	25	12	/	16.78	0.048	/
10	16QAM	25	25	/	16.94	0.049	/
10	16QAM	50	0	/	16.96	0.050	/
10	64QAM	1	0	/	17.16	0.052	/
10	64QAM	1	25	/	16.72	0.047	/
10	64QAM	1	49	/	17.15	0.052	/
10	64QAM	25	0	/	15.89	0.039	/
10	64QAM	25	12	/	15.90	0.039	/
10	64QAM	25	25	/	16.11	0.041	/
10	64QAM	50	0	/	15.98	0.040	/



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	18.79	0.076	18.65	0.073	18.81	0.076
5	QPSK	1	12	18.47	0.070	18.61	0.073	18.79	0.076
5	QPSK	1	24	18.73	0.075	18.95	0.079	18.82	0.076
5	QPSK	12	0	17.91	0.062	17.90	0.062	17.82	0.061
5	QPSK	12	7	17.83	0.061	17.84	0.061	17.87	0.061
5	QPSK	12	13	17.87	0.061	17.82	0.061	17.97	0.063
5	QPSK	25	0	17.94	0.062	17.81	0.060	17.90	0.062
5	16QAM	1	0	17.98	0.063	17.90	0.062	18.03	0.064
5	16QAM	1	12	17.67	0.058	17.91	0.062	17.93	0.062
5	16QAM	1	24	17.90	0.062	17.93	0.062	17.92	0.062
5	16QAM	12	0	16.90	0.049	16.96	0.050	16.86	0.049
5	16QAM	12	7	16.74	0.047	16.87	0.049	16.89	0.049
5	16QAM	12	13	16.89	0.049	16.90	0.049	16.94	0.049
5	16QAM	25	0	16.88	0.049	16.77	0.048	16.82	0.048
5	64QAM	1	0	16.68	0.047	16.54	0.045	16.90	0.049
5	64QAM	1	12	16.65	0.046	16.87	0.049	16.76	0.047
5	64QAM	1	24	16.62	0.046	16.71	0.047	16.65	0.046
5	64QAM	12	0	15.99	0.040	15.92	0.039	15.88	0.039
5	64QAM	12	7	15.88	0.039	15.89	0.039	16.00	0.040
5	64QAM	12	13	15.95	0.039	15.92	0.039	15.99	0.040
5	64QAM	25	0	15.96	0.039	15.84	0.038	15.89	0.039



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	18.80	0.076	18.76	0.075
3	QPSK	1	8	18.84	0.077	18.78	0.076	18.93	0.078
3	QPSK	1	14	18.75	0.075	18.83	0.076	18.80	0.076
3	QPSK	8	0	17.93	0.062	17.82	0.061	17.85	0.061
3	QPSK	8	4	17.81	0.060	17.82	0.061	17.97	0.063
3	QPSK	8	7	17.81	0.060	17.91	0.062	17.92	0.062
3	QPSK	15	0	17.82	0.061	17.76	0.060	18.00	0.063
3	16QAM	1	0	18.12	0.065	17.94	0.062	18.06	0.064
3	16QAM	1	8	18.11	0.065	17.96	0.063	18.03	0.064
3	16QAM	1	14	17.88	0.061	17.93	0.062	17.87	0.061
3	16QAM	8	0	16.89	0.049	16.88	0.049	16.95	0.050
3	16QAM	8	4	16.85	0.048	16.85	0.048	16.99	0.050
3	16QAM	8	7	16.85	0.048	16.99	0.050	16.90	0.049
3	16QAM	15	0	16.90	0.049	16.94	0.049	16.94	0.049
3	64QAM	1	0	16.75	0.047	16.67	0.046	16.62	0.046
3	64QAM	1	8	16.68	0.047	16.75	0.047	16.90	0.049
3	64QAM	1	14	16.57	0.045	16.61	0.046	16.83	0.048
3	64QAM	8	0	16.03	0.040	15.91	0.039	15.96	0.039
3	64QAM	8	4	15.93	0.039	15.87	0.039	16.01	0.040
3	64QAM	8	7	15.96	0.039	15.92	0.039	15.94	0.039
3	64QAM	15	0	15.85	0.038	15.84	0.038	16.05	0.040



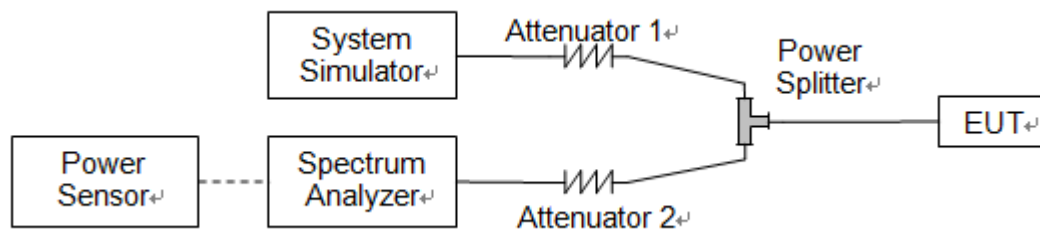
LTE Band 26				Measured E.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				26697		26740		26783	
Frequency (MHz)				814.7		819.0		823.3	
				dBm	W	dBm	W	dBm	W
1.4	QPSK	1	0	18.83	0.076	18.83	0.076	18.78	0.076
1.4	QPSK	1	3	18.86	0.077	18.80	0.076	18.92	0.078
1.4	QPSK	1	5	18.73	0.075	18.86	0.077	18.81	0.076
1.4	QPSK	3	0	18.90	0.078	18.79	0.076	18.84	0.077
1.4	QPSK	3	1	18.95	0.079	18.78	0.076	18.90	0.078
1.4	QPSK	3	3	18.91	0.078	18.89	0.077	18.82	0.076
1.4	QPSK	6	0	17.97	0.063	17.73	0.059	17.91	0.062
1.4	16QAM	1	0	17.89	0.062	17.83	0.061	17.86	0.061
1.4	16QAM	1	3	17.87	0.061	17.92	0.062	17.93	0.062
1.4	16QAM	1	5	17.88	0.061	17.88	0.061	17.87	0.061
1.4	16QAM	3	0	18.02	0.063	17.81	0.060	17.90	0.062
1.4	16QAM	3	1	18.03	0.064	17.88	0.061	17.91	0.062
1.4	16QAM	3	3	17.92	0.062	17.88	0.061	17.81	0.060
1.4	16QAM	6	0	16.96	0.050	16.86	0.049	16.85	0.048
1.4	64QAM	1	0	16.55	0.045	16.74	0.047	16.71	0.047
1.4	64QAM	1	3	16.74	0.047	16.69	0.047	16.90	0.049
1.4	64QAM	1	5	16.40	0.044	16.77	0.048	16.55	0.045
1.4	64QAM	3	0	17.05	0.051	16.95	0.050	16.99	0.050
1.4	64QAM	3	1	17.12	0.052	16.92	0.049	16.98	0.050
1.4	64QAM	3	3	17.04	0.051	16.92	0.049	16.89	0.049
1.4	64QAM	6	0	15.88	0.039	15.80	0.038	15.97	0.040

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**

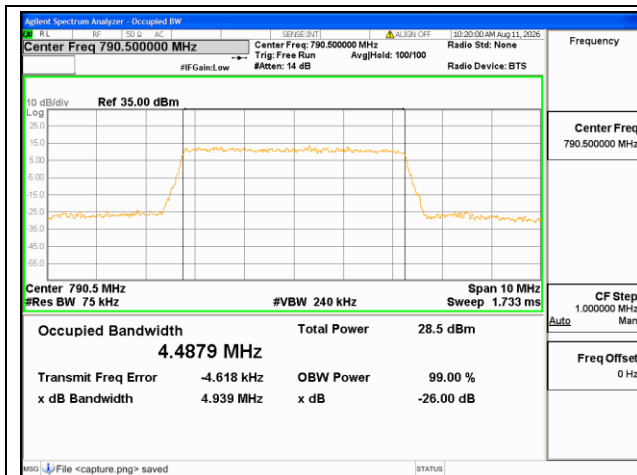
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B14	5	Low	23305	790.5	QPSK	4.4879	4.9393	PASS
B14	5	Low	23305	790.5	16QAM	4.4881	4.9283	PASS
B14	5	Low	23305	790.5	64QAM	4.4898	4.9369	PASS
B14	5	Mid	23330	793	QPSK	4.4862	4.9784	PASS
B14	5	Mid	23330	793	16QAM	4.4858	4.9842	PASS
B14	5	Mid	23330	793	64QAM	4.4983	4.9471	PASS
B14	5	High	23355	795.5	QPSK	4.4708	4.9483	PASS
B14	5	High	23355	795.5	16QAM	4.4749	4.9574	PASS
B14	5	High	23355	795.5	64QAM	4.4954	4.9739	PASS
B14	10	Mid	23330	793	QPSK	8.9949	9.7759	PASS
B14	10	Mid	23330	793	16QAM	8.9674	9.7730	PASS
B14	10	Mid	23330	793	64QAM	8.9704	9.8257	PASS

LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B18	5	Low	23875	817.5	QPSK	4.4823	4.9479	PASS
B18	5	Low	23875	817.5	16QAM	4.4792	4.9378	PASS
B18	5	Low	23875	817.5	64QAM	4.4991	4.9570	PASS
B18	5	Mid	23895	819.5	QPSK	4.4936	4.9519	PASS
B18	5	Mid	23895	819.5	16QAM	4.4961	4.9395	PASS
B18	5	Mid	23895	819.5	64QAM	4.4923	4.9473	PASS
B18	5	High	23915	821.5	QPSK	4.4977	4.9870	PASS
B18	5	High	23915	821.5	16QAM	4.5026	4.9266	PASS
B18	5	High	23915	821.5	64QAM	4.5068	4.9817	PASS

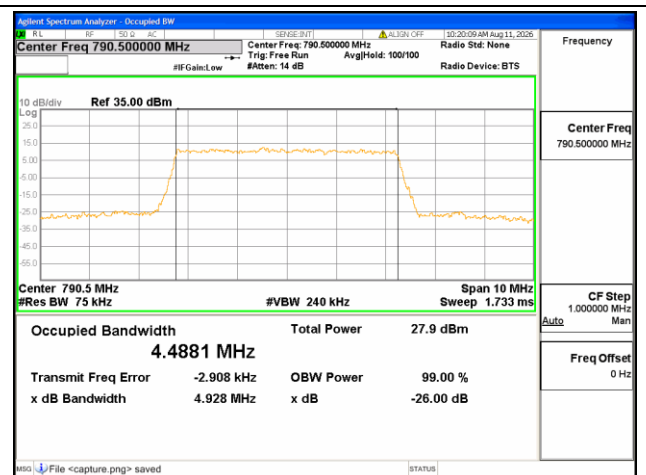
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B26	1.4	Low	26697	814.7	QPSK	1.0965	1.2739	PASS
B26	1.4	Low	26697	814.7	16QAM	1.0984	1.2877	PASS
B26	1.4	Low	26697	814.7	64QAM	1.0998	1.2820	PASS
B26	1.4	Mid	26740	819	QPSK	1.0951	1.2982	PASS



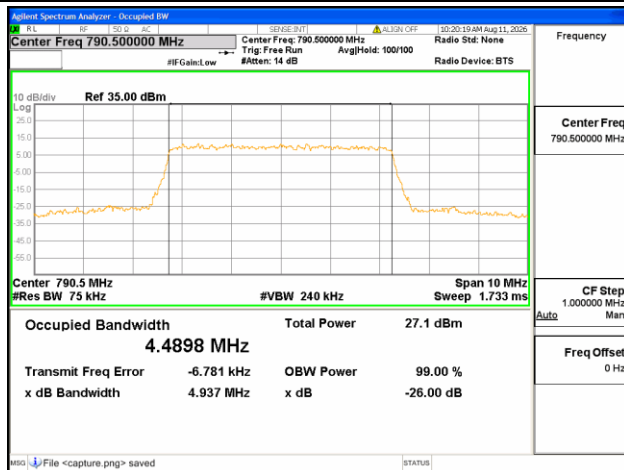
B26	1.4	Mid	26740	819	16QAM	1.0969	1.2804	PASS
B26	1.4	Mid	26740	819	64QAM	1.0975	1.2774	PASS
B26	1.4	High	26783	823.3	QPSK	1.0973	1.2743	PASS
B26	1.4	High	26783	823.3	16QAM	1.0992	1.2836	PASS
B26	1.4	High	26783	823.3	64QAM	1.1016	1.2828	PASS
B26	3	Low	26705	815.5	QPSK	2.6989	2.9861	PASS
B26	3	Low	26705	815.5	16QAM	2.6989	3.0008	PASS
B26	3	Low	26705	815.5	64QAM	2.7024	2.9721	PASS
B26	3	Mid	26740	819	QPSK	2.7037	2.9993	PASS
B26	3	Mid	26740	819	16QAM	2.7048	2.9997	PASS
B26	3	Mid	26740	819	64QAM	2.7078	2.9757	PASS
B26	3	High	26775	822.5	QPSK	2.7030	2.9751	PASS
B26	3	High	26775	822.5	16QAM	2.7067	3.0070	PASS
B26	3	High	26775	822.5	64QAM	2.7062	2.9741	PASS
B26	5	Low	26715	816.5	QPSK	4.4795	4.9779	PASS
B26	5	Low	26715	816.5	16QAM	4.4919	4.9757	PASS
B26	5	Low	26715	816.5	64QAM	4.4982	4.9329	PASS
B26	5	Mid	26740	819	QPSK	4.4918	4.9932	PASS
B26	5	Mid	26740	819	16QAM	4.4846	4.9952	PASS
B26	5	Mid	26740	819	64QAM	4.5006	4.9916	PASS
B26	5	High	26765	821.5	QPSK	4.4945	4.9925	PASS
B26	5	High	26765	821.5	16QAM	4.4968	4.9557	PASS
B26	5	High	26765	821.5	64QAM	4.5092	4.9415	PASS
B26	10	Low	26740	819	QPSK	8.9671	9.8082	PASS
B26	10	Low	26740	819	16QAM	8.9425	9.7475	PASS
B26	10	Low	26740	819	64QAM	8.9873	9.7979	PASS
B26	10	Mid	26740	819	QPSK	8.9772	9.8058	PASS
B26	10	Mid	26740	819	16QAM	8.9673	9.7225	PASS
B26	10	Mid	26740	819	64QAM	8.9695	9.8037	PASS
B26	10	High	26740	819	QPSK	8.9754	9.8337	PASS
B26	10	High	26740	819	16QAM	8.9627	9.8031	PASS
B26	10	High	26740	819	64QAM	8.9734	9.7997	PASS



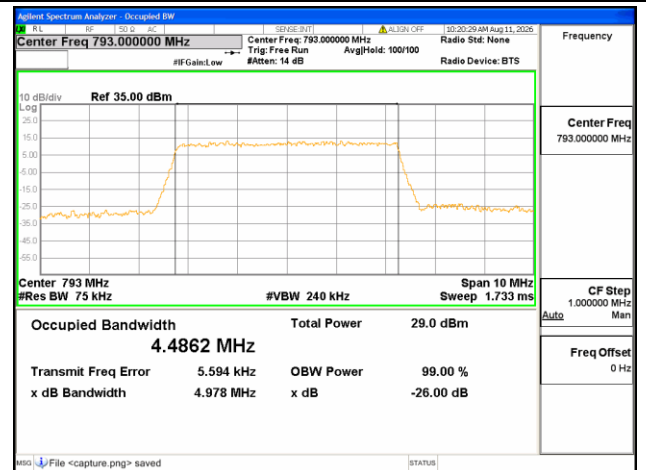
B14 / 5MHz / QPSK/ Low CH



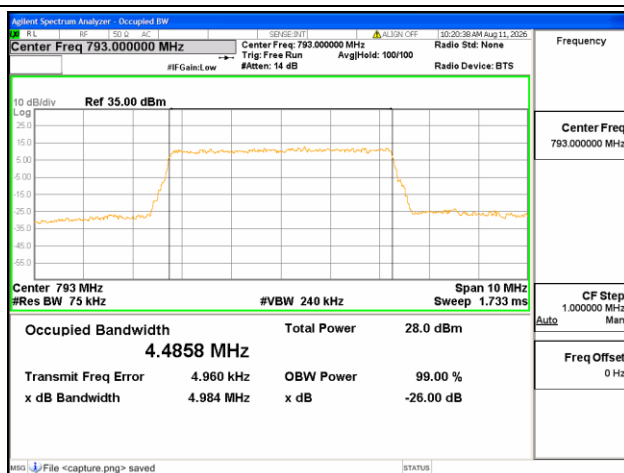
B14 / 5MHz / 16QAM/ Low CH



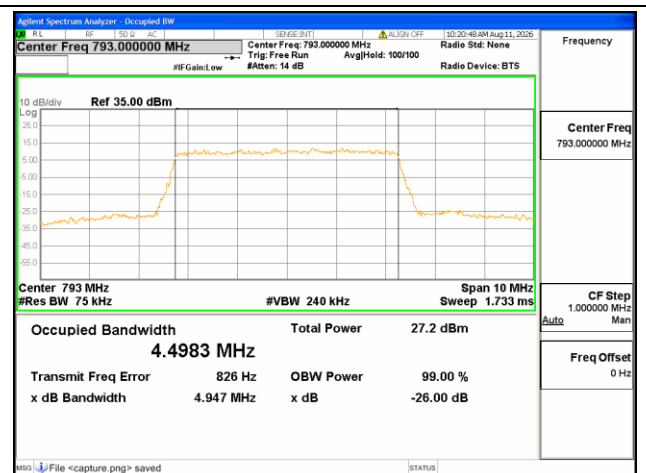
B14 / 5MHz / 64QAM/ Low CH



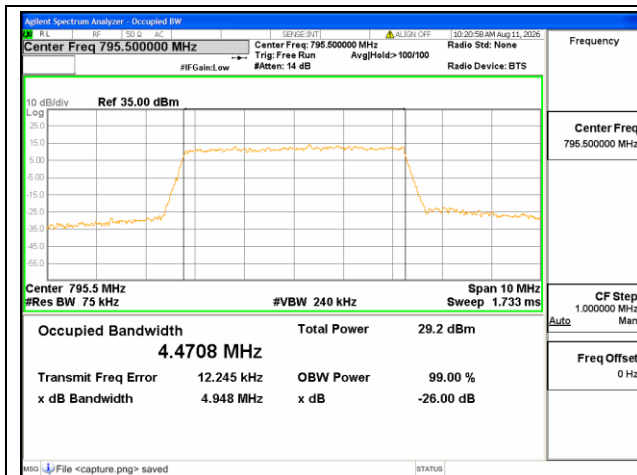
B14 / 5MHz / QPSK/ Mid CH



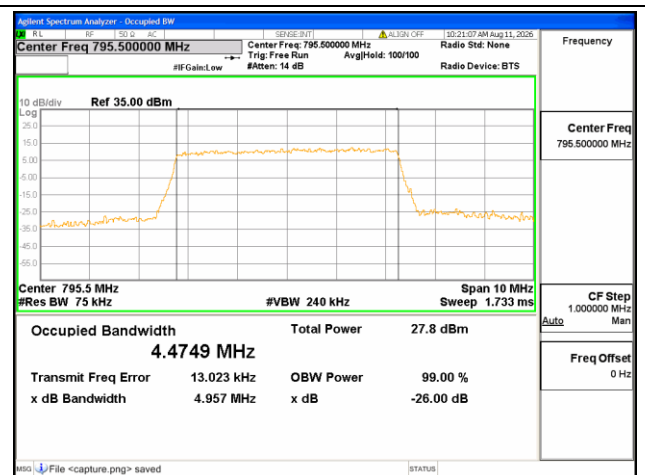
B14 / 5MHz / 16QAM/ Mid CH



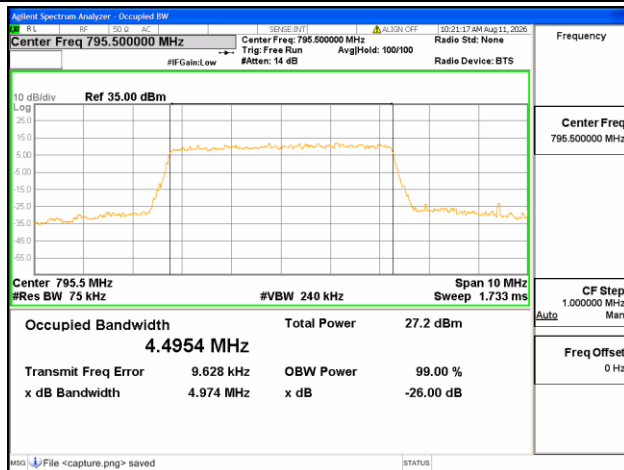
B14 / 5MHz / 64QAM/ Mid CH



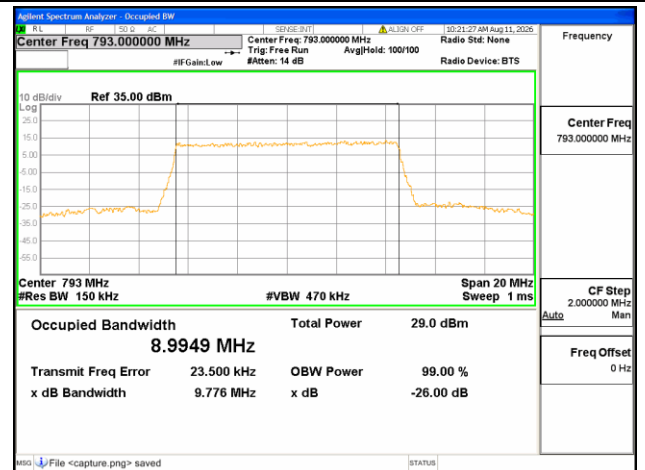
B14 / 5MHz / QPSK/ High CH



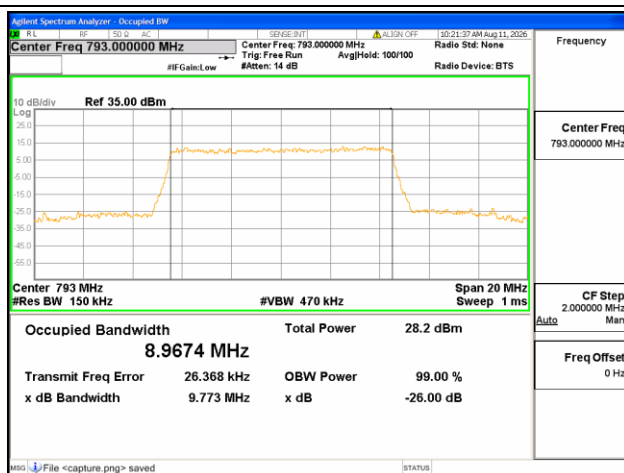
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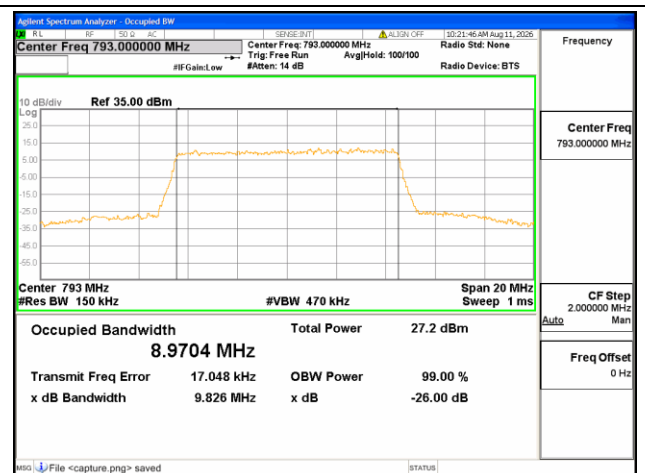
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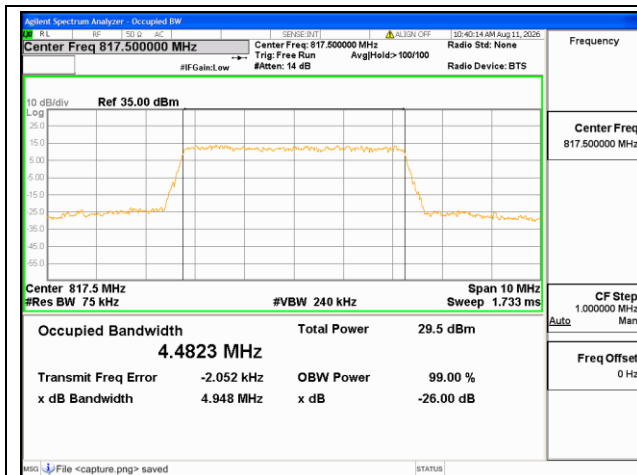
B14 / 10MHz / QPSK/ Mid CH



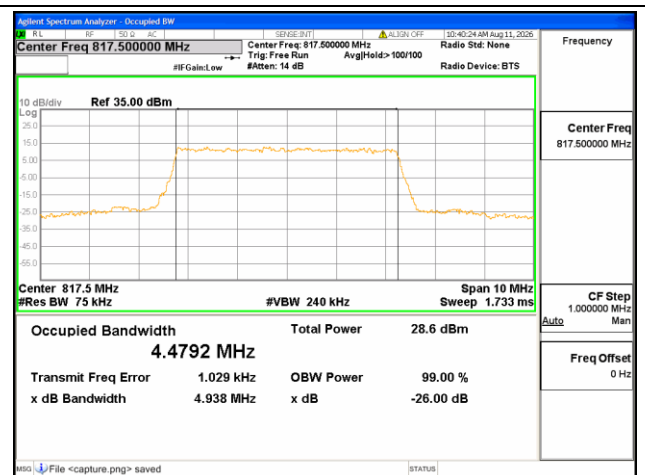
B14 / 10MHz / 16QAM/ Mid CH



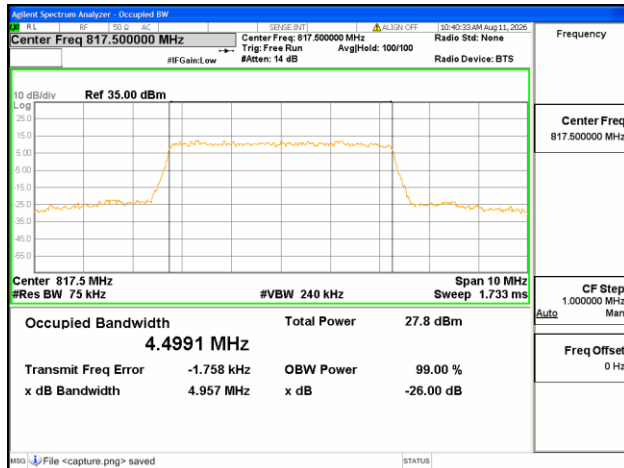
B14 / 10MHz / 64QAM/ Mid CH



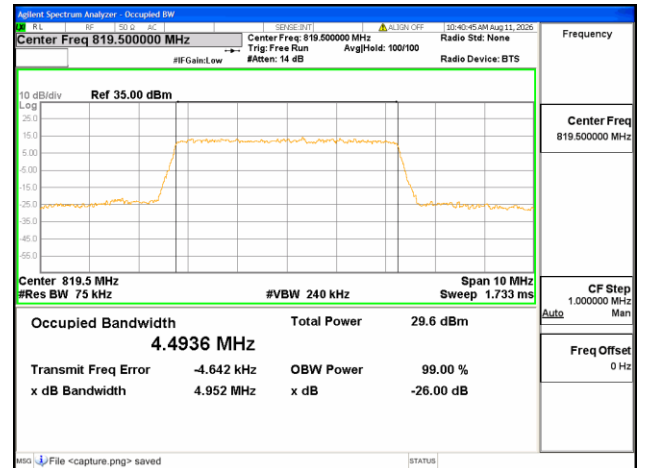
B18 / 5MHz / QPSK/ Low CH



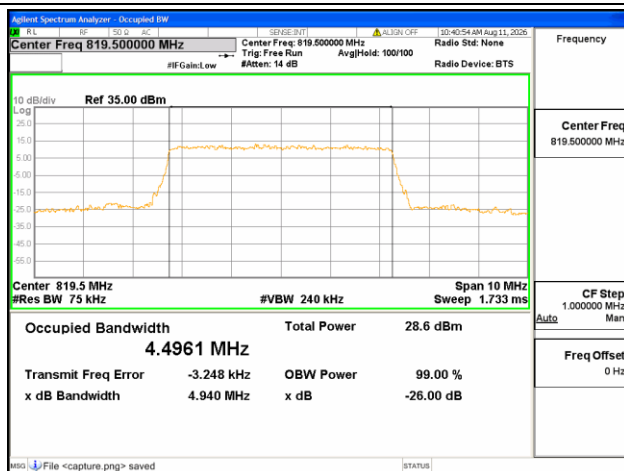
B18 / 5MHz / 16QAM/ Low CH



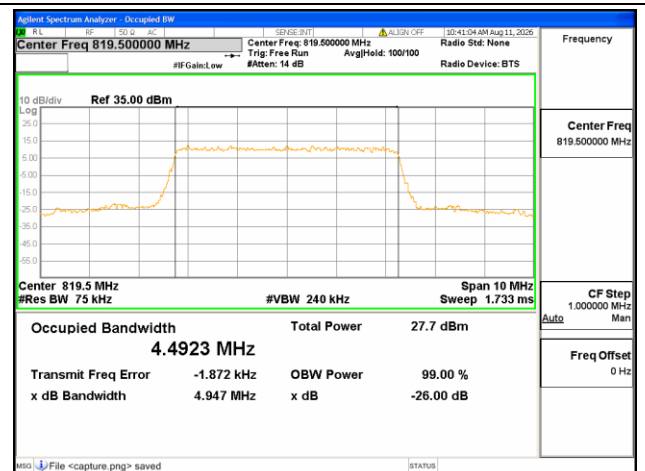
B18 / 5MHz / 64QAM/ Low CH



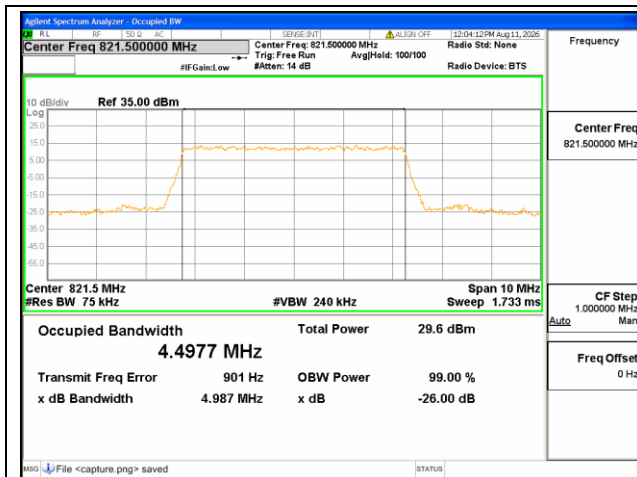
B18 / 5MHz / QPSK/ Mid CH



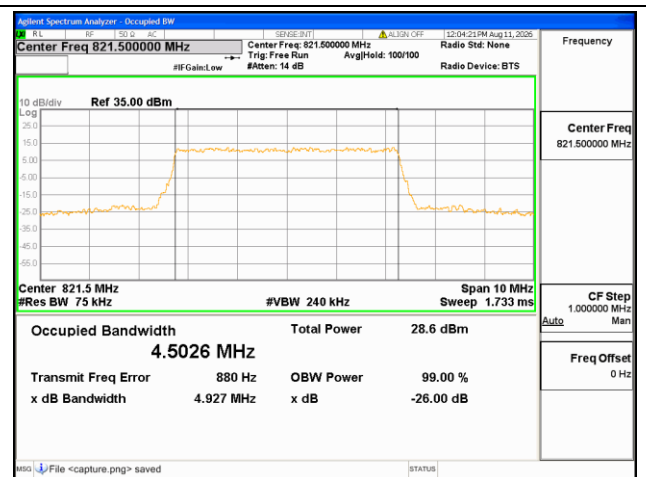
B18 / 5MHz / 16QAM/ Mid CH



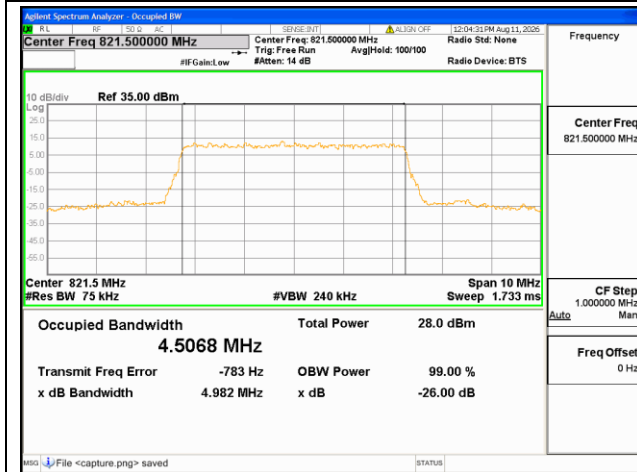
B18 / 5MHz / 64QAM/ Mid CH



B18 / 5MHz / QPSK/ High CH

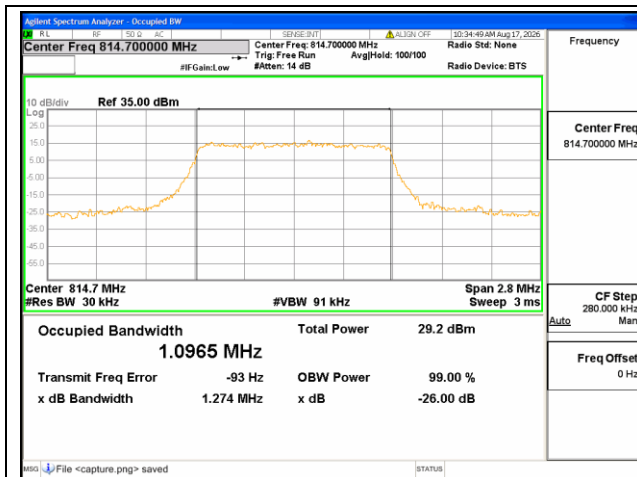


B18 / 5MHz / 16QAM/ High CH

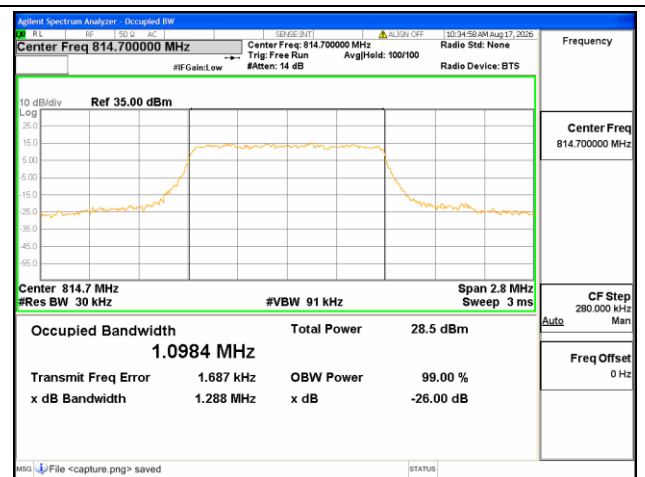


B18 / 5MHz / 64QAM/ High CH

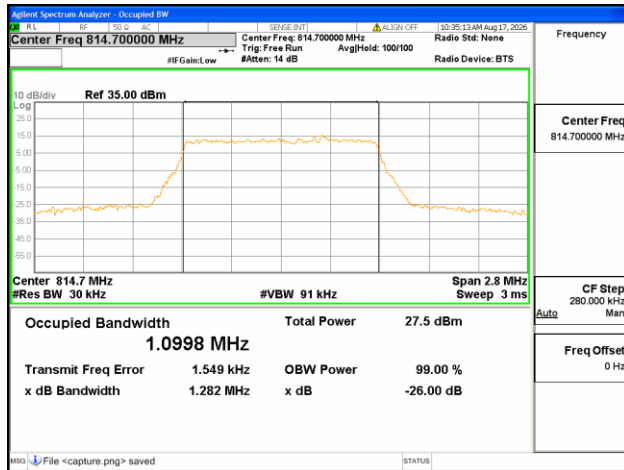
N/A



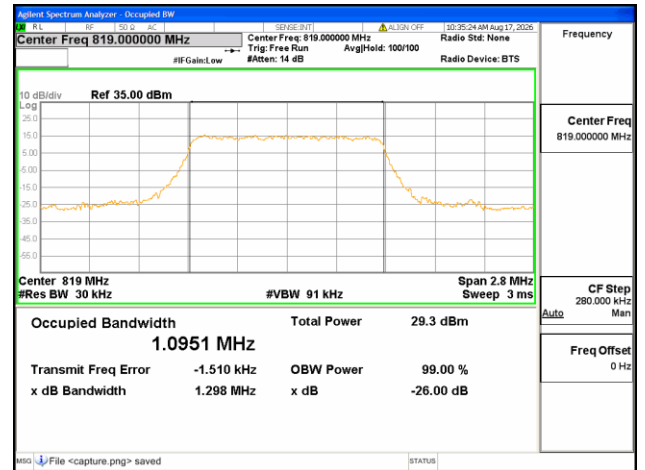
B26 / 1.4MHz / QPSK / Low CH



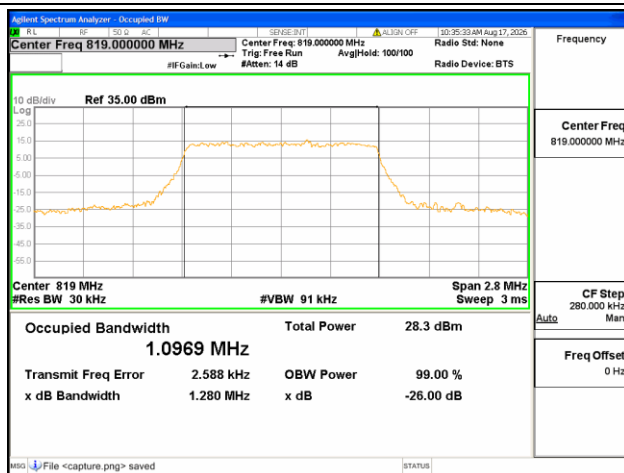
B26 / 1.4MHz / 16QAM / Low CH



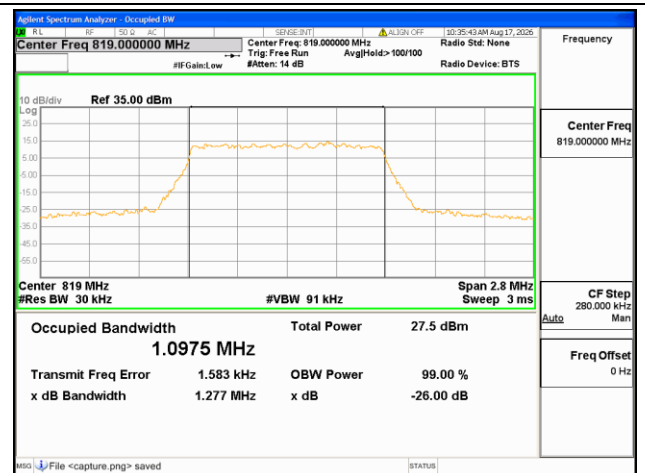
B26 / 1.4MHz / 64QAM / Low CH



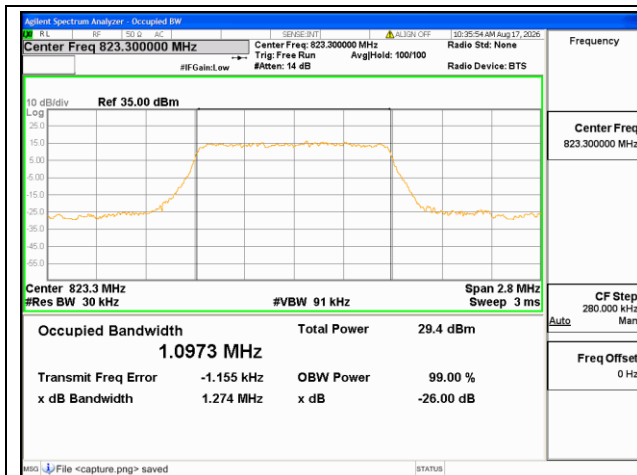
B26 / 1.4MHz / QPSK / Mid CH



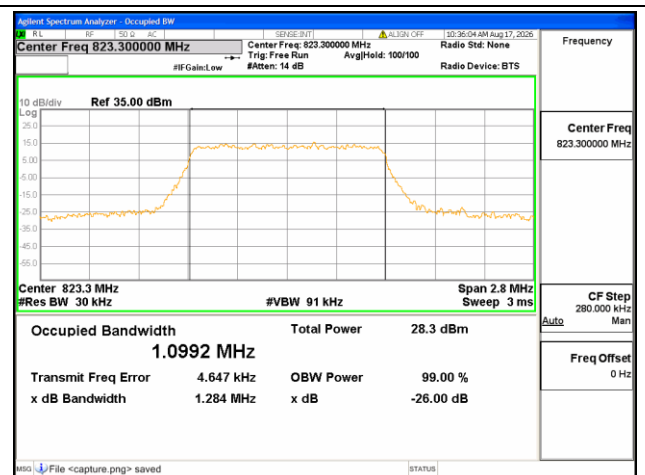
B26 / 1.4MHz / 16QAM / Mid CH



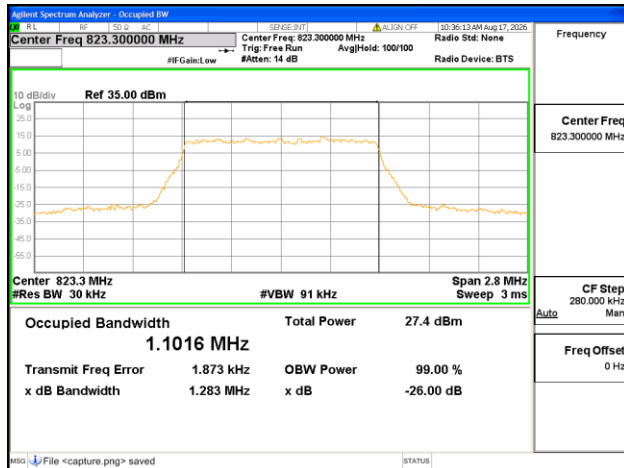
B26 / 1.4MHz / 64QAM / Mid CH



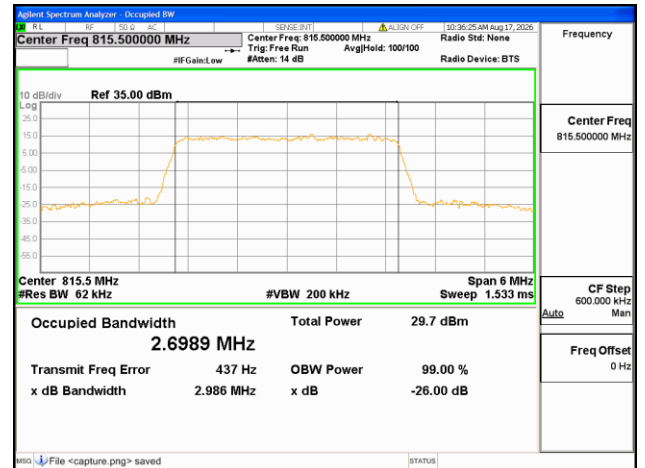
B26 / 1.4MHz / QPSK/ High CH



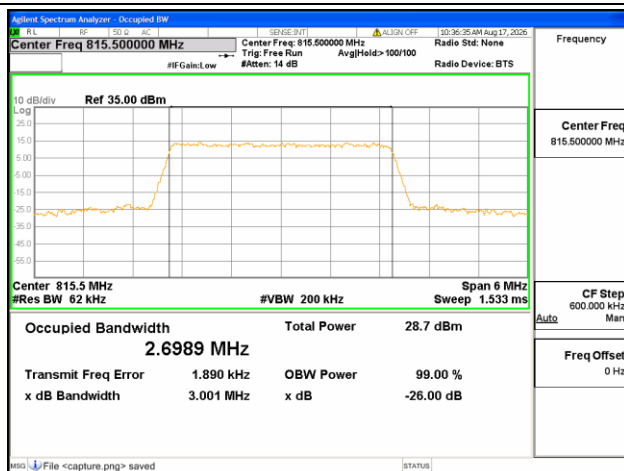
B26 / 1.4MHz / 16QAM/ High CH



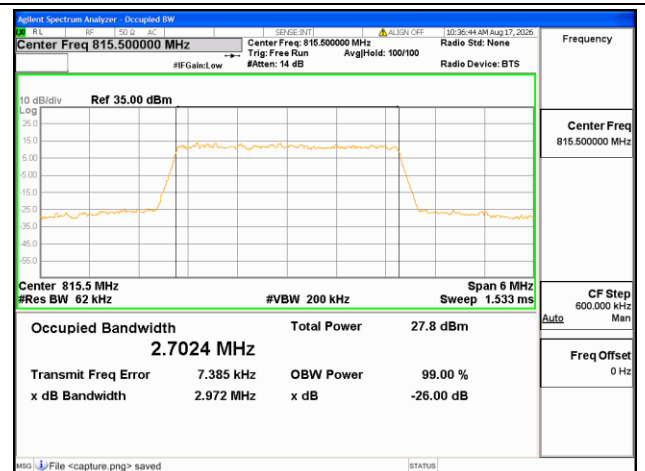
B26 / 1.4MHz / 64QAM/ High CH



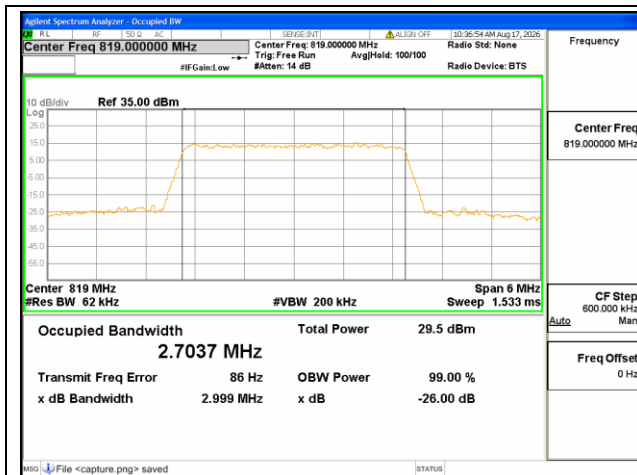
B26 / 3MHz / QPSK/ Low CH



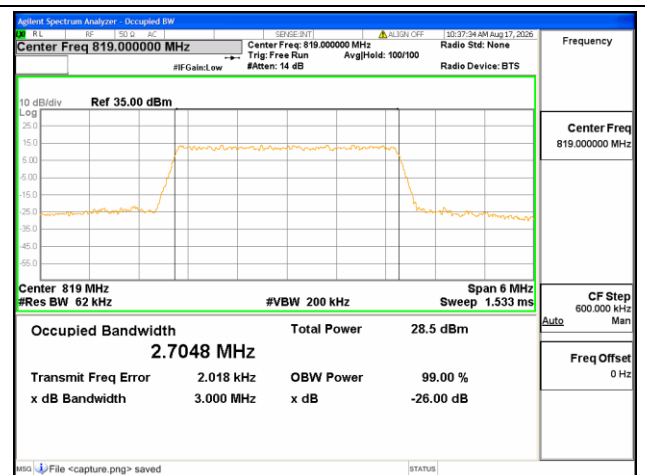
B26 / 3MHz / 16QAM/ Low CH



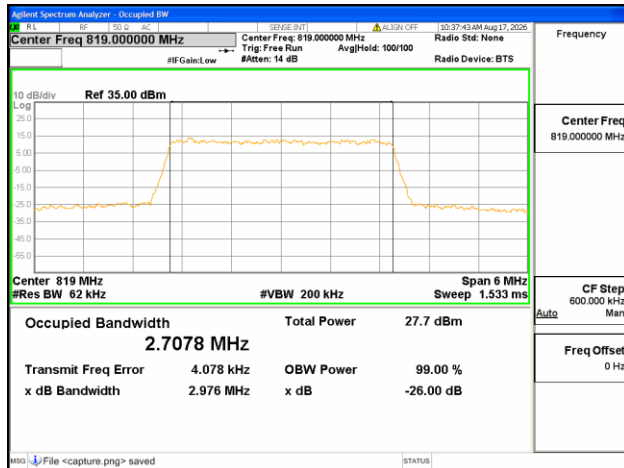
B26 / 3MHz / 64QAM/ Low CH



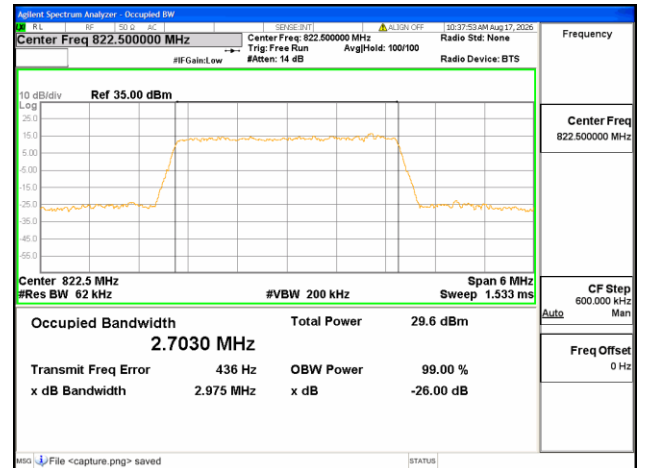
B26 / 3MHz / QPSK/ Mid CH



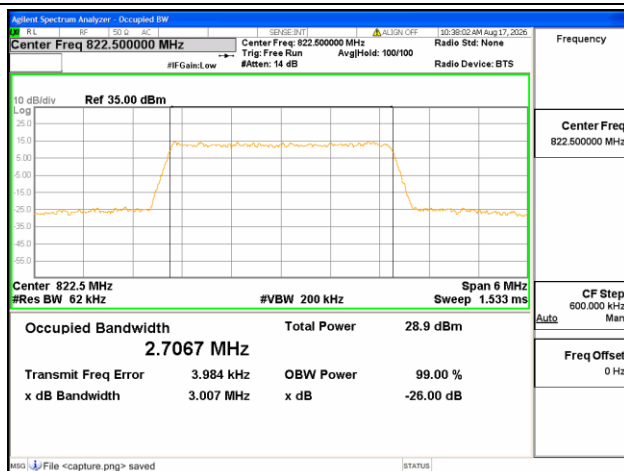
B26 / 3MHz / 16QAM/ Mid CH



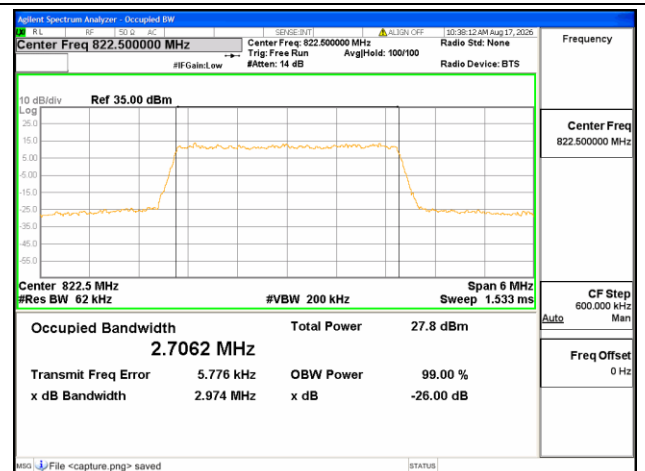
B26 / 3MHz / 64QAM/ Mid CH



B26 / 3MHz / QPSK/ High CH



B26 / 3MHz / 16QAM/ High CH



B26 / 3MHz / 64QAM/ High CH