



REPORT No.: SZ23100334W06

TEST REPORT

APPLICANT : Sonim Technologies, Inc.

PRODUCT NAME : Mobile Hotspot

MODEL NAME : H500B

BRAND NAME : Sonim

FCC ID : WYPH500B

STANDARD(S) : 47 CFR Part 2
47 CFR Part 96

RECEIPT DATE : 2023-11-01

TEST DATE : 2023-11-14 to 2023-12-28

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Change History		
Version	Date	Reason for change
1.0	2024-01-29	First edition



1. Technical Information

Note: Provide by applicant.

1.1. Applicant and Manufacturer Information

Applicant:	Sonim Technologies, Inc.
Applicant Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA
Manufacturer:	Sonim Technologies, Inc.
Manufacturer Address:	4445 Eastgate Mall, Suite 200, San Diego, CA 92121, USA

1.2. Equipment Under Test (EUT) Description

Product Name:	Mobile Hotspot	
Sample No.:	4#	
Hardware Version:	V1.0	
Software Version:	H50.0-01-5.4.0-11.08.00	
Modulation Type:	QPSK, 16QAM, 64QAM, 256QAM	
Operation Band:	Band 42 / 43 / 48	
Carrier Aggregation(UL):	CA_41C, CA_48C, CA_66B, CA_66C, CA_2A-4A, CA_2A-5A, CA_2A-7A, CA_2A-12A, CA_2A-13A, CA_2A-66A, CA_2A-71A, CA_4A-5A, CA_4A-7A, CA_4A-12A, CA_4A-13A, CA_4A-71A, CA_5A-7A, CA_5A-66A, CA_7A-12A, CA_12A-66A, CA_13A-66A, CA_66A-71A	
Frequency Range:	LTE Band 42	Tx: 3550MHz–3600MHz
		Rx: 3550MHz–3600MHz
	LTE Band 43	Tx: 3600MHz–3700MHz
		Rx: 3600MHz–3700MHz
	LTE Band 48	Tx: 3550MHz–3700MHz
		Rx: 3550MHz–3700MHz
Channel Bandwidth	LTE Band 42	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 43	5MHz, 10MHz, 15MHz, 20MHz
	LTE Band 48	5MHz, 10MHz, 15MHz, 20MHz
Antenna Type:	PIFA Antenna (for ANT0-ANT4)	
Antenna Gain:	LTE Band 42	ANT 2: -0.14dB
	LTE Band 43	ANT 2: -0.07dB
	LTE Band 48	ANT 2: -0.14dB



Accessory Information:	Battery	
	Brand Name:	sonim
	Model No.:	BAT-06000-01S
	Serial No.:	N/A
	Capacity:	6000mAh
	Rated Voltage:	3.85V
	Charge Limit:	4.4V
	Manufacturer:	Guangdong Fenghua New Energy Co.,Ltd.
	AC Adapter	
	Brand Name:	N/A
	Model No.:	1-CHUSQ302-097
	Serial No.:	N/A
	Rated Output:	5V $\Rightarrow$ 3A or 9V $\Rightarrow$ 2A or 12V $\Rightarrow$ 1.5A
	Rated Input:	100-240V $\sim$ 50/60Hz, 0.5A
	Manufacturer:	HUIZHOU PUAN ELECTRONICS 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 42	Maximum E.R.P./E.I.R.P. (W)				Emission Designator (99%OBW)			
BW (MHz)	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20	0.163	0.126	0.096	0.045	18M0G7D	18M0W7D	18M0W7D	18M0W7D
15	0.148	0.125	0.099	0.046	13M5G7D	13M5W7D	13M5W7D	13M5W7D
10	0.148	0.126	0.098	0.045	9M02G7D	9M02W7D	9M02W7D	9M00W7D
5	0.148	0.129	0.098	0.045	4M54G7D	4M51W7D	4M54W7D	4M52W7D
LTE Band 43	Maximum E.R.P./E.I.R.P. (W)				Emission Designator (99%OBW)			
BW (MHz)	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20	0.153	0.127	0.099	0.048	18M0G7D	18M0W7D	17M9W7D	18M0W7D
15	0.151	0.127	0.099	0.047	13M5G7D	13M5W7D	13M5W7D	13M5W7D
10	0.151	0.127	0.099	0.047	9M00G7D	9M01W7D	9M03W7D	9M02W7D
5	0.151	0.128	0.098	0.048	4M53G7D	4M51W7D	4M54W7D	4M51W7D
LTE Band 48	Maximum E.R.P./E.I.R.P. (W)				Emission Designator (99%OBW)			
BW (MHz)	QPSK	16QAM	64QAM	256QAM	QPSK	16QAM	64QAM	256QAM
20	0.162	0.123	0.095	0.045	18M0G7D	17M9W7D	18M0W7D	18M0W7D
15	0.146	0.124	0.095	0.046	13M5G7D	13M5W7D	13M5W7D	13M5W7D
10	0.146	0.123	0.095	0.045	9M00G7D	9M02W7D	8M98W7D	9M02W7D
5	0.145	0.121	0.095	0.045	4M54G7D	4M52W7D	4M51W7D	4M51W7D

1.4. Test Standards and Results

The objective of the report is to perform testing according to Part 2 and Part 96 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 96	CITIZENS BROADBAND RADIO SERVICE

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, 96.41(b)	Transmitter Conducted Output Power and ERP/EIRP	Nov. 14, 2023	Yu Xiaoming Gan Jing	PASS	No deviation
2.1049	Occupied Bandwidth	Nov. 14, 2023	Gan Jing	PASS	No deviation
96.41(g)	Peak -Average Ratio	Nov. 14, 2023	Gan Jing	PASS	No deviation
2.1055	Frequency Stability	Nov. 14, 2023	Gan Jing	PASS	No deviation
2.1051, 96.41(e)	Conducted Spurious Emissions	Nov. 14, 2023	Gan Jing	PASS	No deviation
2.1051, 96.41(e)	Band Edge	Nov. 14, 2023	Gan Jing	PASS	No deviation
2.1051, 96.41(e)	Radiated Spurious Emissions	Dec. 28, 2023	Gao Jianrou	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: The path loss during the RF test is calibrated to correct the results by the offset setting in the test equipment. The ref offset 24.5dB contains two parts that cable loss 14.5dB and Attenuator 10dB.

Note 3: 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 4: 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 96 Requirements

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

2.1.1. Requirement

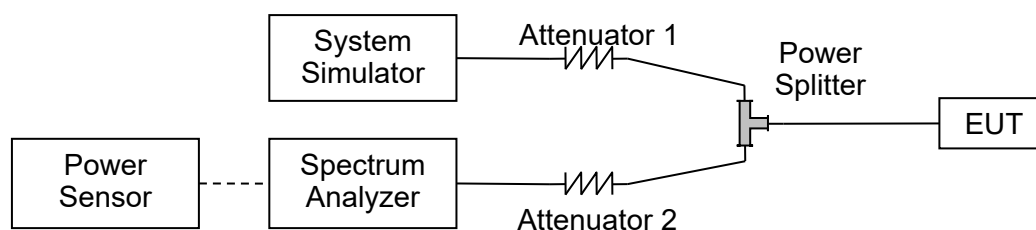
According to FCC section 2.1046(a), for transmitters other than single sideband, independent sideband and controlled carrier radiotelephone, power output shall be measured at the RF output terminals when the transmitter is adjusted in accordance with the tune-up procedure to give the values of current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

The maximum effective isotropic radiated power (EIRP) and maximum Power Spectral Density (PSD) of any CBSD and End User Device must comply with the limits shown in the table as below paragraph.

Device	Maximum EIRP (dBm/10 megahertz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a
Category A CBSD	30	20
Category B CBSD ¹	47	37

Additional requirement, the maximum effective isotropic radiated power (EIRP) limit for 15MHz bandwidth is 24.76dBm, and for 20MHz bandwidth is 26.00dBm.

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 42						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43190	43340	43490
Frequency (MHz)				3560	3575	3590
20	QPSK	1	0	22.24	22.27	22.22
20	QPSK	1	49	21.70	21.84	21.69
20	QPSK	1	99	21.79	21.80	21.63
20	QPSK	50	0	21.29	21.36	21.29
20	QPSK	50	24	20.77	20.88	20.76
20	QPSK	50	50	20.75	20.94	20.58
20	QPSK	100	0	20.81	20.87	20.85
20	16QAM	1	0	20.99	20.99	20.92
20	16QAM	1	49	20.94	21.15	21.15
20	16QAM	1	99	21.02	21.16	20.87
20	16QAM	50	0	19.97	19.97	19.93
20	16QAM	50	24	19.83	19.93	19.92
20	16QAM	50	50	19.93	19.92	19.69
20	16QAM	100	0	19.74	19.75	19.85
20	64QAM	1	0	19.77	19.95	19.72
20	64QAM	1	49	19.74	19.93	19.85
20	64QAM	1	99	19.83	19.89	19.81
20	64QAM	50	0	18.89	19.04	18.75
20	64QAM	50	24	18.99	18.75	19.01
20	64QAM	50	50	19.01	18.75	18.80
20	64QAM	100	0	18.77	18.95	18.82
20	256QAM	1	0	16.54	16.65	16.63
20	256QAM	1	49	16.53	16.60	16.64
20	256QAM	1	99	16.44	16.44	16.50
20	256QAM	50	0	15.50	15.54	15.46
20	256QAM	50	24	15.42	15.58	15.48
20	256QAM	50	50	15.38	15.48	15.41
20	256QAM	100	0	15.45	15.53	15.48



LTE Band 42						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43165	43340	43515
Frequency (MHz)				3557.5	3575	3592.5
15	QPSK	1	0	21.81	21.83	21.78
15	QPSK	1	37	21.74	21.77	21.63
15	QPSK	1	74	21.62	21.70	21.62
15	QPSK	36	0	20.89	20.94	20.78
15	QPSK	36	20	20.81	20.87	20.86
15	QPSK	36	39	20.85	20.82	20.69
15	QPSK	75	0	20.88	20.88	20.83
15	16QAM	1	0	20.97	21.08	21.10
15	16QAM	1	37	20.93	21.12	21.07
15	16QAM	1	74	20.88	21.10	20.96
15	16QAM	36	0	20.03	19.96	19.94
15	16QAM	36	20	19.87	19.93	19.87
15	16QAM	36	39	19.78	19.83	19.70
15	16QAM	75	0	19.83	19.77	19.78
15	64QAM	1	0	19.79	20.02	19.81
15	64QAM	1	37	19.92	19.90	19.72
15	64QAM	1	74	20.09	19.89	19.80
15	64QAM	36	0	18.76	19.06	18.84
15	64QAM	36	20	18.94	18.91	18.94
15	64QAM	36	39	18.83	18.78	18.78
15	64QAM	75	0	18.93	18.98	18.68
15	256QAM	1	0	16.59	16.73	16.50
15	256QAM	1	37	16.48	16.55	16.50
15	256QAM	1	74	16.53	16.39	16.41
15	256QAM	36	0	15.34	15.60	15.50
15	256QAM	36	20	15.57	15.62	15.56
15	256QAM	36	39	15.51	15.46	15.47
15	256QAM	75	0	15.50	15.63	15.55



LTE Band 42						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43140	43340	43540
Frequency (MHz)				3555	3575	3595
10	QPSK	1	0	21.82	21.85	21.79
10	QPSK	1	25	21.84	21.81	21.74
10	QPSK	1	49	21.72	21.78	21.73
10	QPSK	25	0	20.95	20.92	20.90
10	QPSK	25	12	20.87	20.82	20.79
10	QPSK	25	25	20.76	20.90	20.67
10	QPSK	50	0	20.79	20.83	20.76
10	16QAM	1	0	20.94	21.00	20.99
10	16QAM	1	25	21.00	21.16	21.05
10	16QAM	1	49	20.97	21.15	20.84
10	16QAM	25	0	20.02	20.05	20.04
10	16QAM	25	12	19.80	19.91	19.81
10	16QAM	25	25	19.83	20.01	19.76
10	16QAM	50	0	19.69	19.78	19.93
10	64QAM		0	19.78	20.04	19.77
10	64QAM	1	25	19.83	19.80	19.83
10	64QAM	1	49	20.05	19.91	19.81
10	64QAM	25	0	18.80	19.10	18.75
10	64QAM	25	12	18.97	18.79	18.87
10	64QAM	25	25	18.99	18.93	18.79
10	64QAM	50	0	18.79	19.05	18.83
10	256QAM	1	0	16.49	16.55	16.58
10	256QAM	1	25	16.50	16.51	16.64
10	256QAM	1	49	16.43	16.45	16.52
10	256QAM	25	0	15.58	15.52	15.52
10	256QAM	25	12	15.51	15.58	15.51
10	256QAM	25	25	15.50	15.48	15.44
10	256QAM	50	0	15.44	15.59	15.51



LTE Band 42						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43115	43340	43565
Frequency (MHz)				3552.5	3575	3597.5
5	QPSK	1	0	21.78	21.84	21.81
5	QPSK	1	12	21.80	21.80	21.63
5	QPSK	1	24	21.67	21.71	21.67
5	QPSK	12	0	20.94	20.95	20.87
5	QPSK	12	7	20.78	21.01	20.89
5	QPSK	12	13	20.78	20.92	20.70
5	QPSK	25	0	20.73	20.77	20.94
5	16QAM	1	0	20.92	21.06	21.10
5	16QAM	1	12	21.09	21.01	21.14
5	16QAM	1	24	20.90	21.23	20.89
5	16QAM	12	0	20.08	19.94	19.99
5	16QAM	12	7	19.85	19.87	19.97
5	16QAM	12	13	19.74	19.83	19.84
5	16QAM	25	0	19.68	19.74	19.88
5	64QAM	1	0	19.77	20.05	19.72
5	64QAM	1	12	19.90	19.92	19.86
5	64QAM	1	24	19.98	19.90	19.75
5	64QAM	12	0	18.77	19.10	18.88
5	64QAM	12	7	18.93	18.80	18.85
5	64QAM	12	13	18.82	18.87	18.80
5	64QAM	25	0	18.78	19.05	18.82
5	256QAM	1	0	16.64	16.58	16.47
5	256QAM	1	12	16.51	16.59	16.51
5	256QAM	1	24	16.45	16.42	16.47
5	256QAM	12	0	15.55	15.69	15.49
5	256QAM	12	7	15.53	15.54	15.50
5	256QAM	12	13	15.42	15.48	15.52
5	256QAM	25	0	15.50	15.49	15.44



LTE Band 43						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43690	44090	44490
Frequency (MHz)				3610	3650	3690
20	QPSK	1	0	21.86	21.91	21.85
20	QPSK	1	49	21.72	21.83	21.71
20	QPSK	1	99	21.66	21.66	21.68
20	QPSK	50	0	20.95	20.96	20.74
20	QPSK	50	24	20.71	20.83	20.74
20	QPSK	50	50	20.85	20.92	20.76
20	QPSK	100	0	20.73	20.84	20.76
20	16QAM	1	0	20.97	21.00	21.09
20	16QAM	1	49	21.01	21.03	21.10
20	16QAM	1	99	20.89	21.08	20.90
20	16QAM	50	0	19.97	20.01	19.93
20	16QAM	50	24	19.76	19.93	19.75
20	16QAM	50	50	19.84	19.85	19.74
20	16QAM	100	0	19.67	19.78	19.95
20	64QAM	1	0	19.94	20.03	19.78
20	64QAM	1	49	19.78	19.94	19.96
20	64QAM	1	99	19.87	19.75	19.68
20	64QAM	50	0	18.76	19.00	18.87
20	64QAM	50	24	18.77	18.89	18.97
20	64QAM	50	50	18.85	18.81	18.66
20	64QAM	100	0	18.75	18.94	18.65
20	256QAM	1	0	16.75	16.86	16.61
20	256QAM	1	49	16.60	16.70	16.81
20	256QAM	1	99	16.62	16.56	16.47
20	256QAM	50	0	15.47	15.87	15.76
20	256QAM	50	24	15.47	15.73	15.86
20	256QAM	50	50	15.68	15.65	15.54
20	256QAM	100	0	15.65	15.78	15.55



LTE Band 43						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43665	44090	445151
Frequency (MHz)				3607.5	3650	3692.5
15	QPSK	1	0	21.81	21.87	21.79
15	QPSK	1	37	21.71	21.67	21.58
15	QPSK	1	74	21.68	21.72	21.54
15	QPSK	36	0	20.96	20.98	20.94
15	QPSK	36	20	20.79	20.81	20.84
15	QPSK	36	39	20.96	20.78	20.67
15	QPSK	75	0	20.82	20.92	20.85
15	16QAM	1	0	20.92	21.01	21.03
15	16QAM	1	37	21.06	21.05	21.10
15	16QAM	1	74	20.91	20.95	20.81
15	16QAM	36	0	19.96	19.96	19.88
15	16QAM	36	20	19.71	20.01	19.86
15	16QAM	36	39	19.72	19.83	19.69
15	16QAM	75	0	19.72	19.90	20.04
15	64QAM	1	0	19.90	20.04	19.80
15	64QAM	1	37	19.70	19.86	19.86
15	64QAM	1	74	19.86	19.89	19.77
15	64QAM	36	0	18.83	18.96	18.93
15	64QAM	36	20	18.70	18.88	18.93
15	64QAM	36	39	18.91	18.91	18.75
15	64QAM	75	0	18.86	18.96	18.67
15	256QAM	1	0	16.82	16.75	16.52
15	256QAM	1	37	16.53	16.74	16.72
15	256QAM	1	74	16.59	16.62	16.53
15	256QAM	36	0	15.60	15.86	15.62
15	256QAM	36	20	15.61	15.67	15.75
15	256QAM	36	39	15.60	15.61	15.38
15	256QAM	75	0	15.51	15.76	15.50



LTE Band 43						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43640	44090	44540
Frequency (MHz)				3605	3650	3695
10	QPSK	1	0	21.79	21.85	21.80
10	QPSK	1	25	21.74	21.79	21.66
10	QPSK	1	49	21.66	21.76	21.64
10	QPSK	25	0	20.94	20.89	20.82
10	QPSK	25	12	20.80	20.97	20.83
10	QPSK	25	25	20.78	20.92	20.65
10	QPSK	50	0	20.75	20.78	20.82
10	16QAM	1	0	20.97	21.03	20.97
10	16QAM	1	25	21.00	21.06	21.02
10	16QAM	1	49	20.93	21.11	20.89
10	16QAM	25	0	19.98	20.01	19.94
10	16QAM	25	12	19.76	19.92	19.87
10	16QAM	25	25	19.80	19.89	19.74
10	16QAM	50	0	19.75	19.77	19.81
10	64QAM	1	0	19.84	20.01	19.76
10	64QAM	1	25	19.79	19.84	19.79
10	64QAM	1	49	19.98	19.84	19.75
10	64QAM	25	0	18.78	19.07	18.77
10	64QAM	25	12	18.88	18.79	18.89
10	64QAM	25	25	18.89	18.82	18.73
10	64QAM	50	0	18.84	18.96	18.59
10	256QAM	1	0	16.70	16.75	16.63
10	256QAM	1	25	16.60	16.64	16.77
10	256QAM	1	49	16.57	16.63	16.51
10	256QAM	25	0	15.54	15.82	15.67
10	256QAM	25	12	15.52	15.75	15.87
10	256QAM	25	25	15.73	15.69	15.52
10	256QAM	50	0	15.64	15.72	15.55



LTE Band 43						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				43615	44090	44565
Frequency (MHz)				3602.5	3650	3697.5
5	QPSK	1	0	21.80	21.86	21.77
5	QPSK	1	12	21.70	21.71	21.58
5	QPSK	1	24	21.72	21.73	21.63
5	QPSK	12	0	20.83	20.98	20.87
5	QPSK	12	7	20.86	20.92	20.87
5	QPSK	12	13	20.78	20.79	20.69
5	QPSK	25	0	20.73	20.84	20.84
5	16QAM	1	0	20.93	20.98	21.11
5	16QAM	1	12	20.87	21.12	21.13
5	16QAM	1	24	21.02	20.96	20.94
5	16QAM	12	0	19.85	19.98	19.98
5	16QAM	12	7	19.66	19.89	19.90
5	16QAM	12	13	19.76	19.91	19.72
5	16QAM	25	0	19.68	19.86	19.96
5	64QAM	1	0	20.00	19.95	19.96
5	64QAM	1	12	19.80	19.99	19.99
5	64QAM	1	24	19.93	19.76	19.70
5	64QAM	12	0	18.78	19.00	18.79
5	64QAM	12	7	18.76	18.92	18.98
5	64QAM	12	13	18.94	18.91	18.68
5	64QAM	25	0	18.92	18.80	18.61
5	256QAM	1	0	16.83	16.81	16.68
5	256QAM	1	12	16.50	16.76	16.86
5	256QAM	1	24	16.76	16.64	16.52
5	256QAM	12	0	15.52	15.79	15.67
5	256QAM	12	7	15.66	15.64	15.87
5	256QAM	12	13	15.64	15.68	15.50
5	256QAM	25	0	15.56	15.69	15.52



LTE Band 48						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				55340	55990	56640
Frequency (MHz)				3560	3625	3690
20	QPSK	1	0	22.17	22.23	22.10
20	QPSK	1	49	21.67	21.69	21.71
20	QPSK	1	99	21.73	21.73	21.67
20	QPSK	50	0	21.27	21.30	21.03
20	QPSK	50	24	20.72	20.77	20.70
20	QPSK	50	50	20.72	20.85	20.50
20	QPSK	100	0	20.74	20.74	20.48
20	16QAM	1	0	21.00	21.05	20.85
20	16QAM	1	49	20.90	20.87	20.71
20	16QAM	1	99	20.88	20.93	20.74
20	16QAM	50	0	19.66	19.74	19.68
20	16QAM	50	24	19.68	19.77	19.49
20	16QAM	50	50	19.66	19.79	19.43
20	16QAM	100	0	19.69	19.73	19.53
20	64QAM	1	0	19.86	19.91	19.77
20	64QAM	1	49	19.86	19.82	19.69
20	64QAM	1	99	19.67	19.83	19.55
20	64QAM	50	0	19.66	19.80	19.52
20	64QAM	50	24	19.55	19.67	19.56
20	64QAM	50	50	19.71	19.66	19.47
20	64QAM	100	0	19.66	19.74	19.42
20	256QAM	1	0	16.67	16.68	16.40
20	256QAM	1	49	16.55	16.57	16.61
20	256QAM	1	99	16.55	16.37	16.45
20	256QAM	50	0	15.40	15.73	15.45
20	256QAM	50	24	15.46	15.63	15.58
20	256QAM	50	50	15.45	15.44	15.42
20	256QAM	100	0	15.45	15.65	15.30



LTE Band 48						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				55315	55990	56665
Frequency (MHz)				3557.5	3625	3692.5
15	QPSK	1	0	21.71	21.79	21.73
15	QPSK	1	37	21.65	21.68	21.71
15	QPSK	1	74	21.67	21.73	21.63
15	QPSK	36	0	20.77	20.83	20.77
15	QPSK	36	20	20.79	20.81	20.83
15	QPSK	36	39	20.80	20.83	20.69
15	QPSK	75	0	20.70	20.78	20.82
15	16QAM	1	0	21.06	21.02	21.04
15	16QAM	1	37	21.00	20.87	20.89
15	16QAM	1	74	20.88	20.91	20.77
15	16QAM	36	0	19.64	19.81	19.72
15	16QAM	36	20	19.61	19.72	19.66
15	16QAM	36	39	19.58	19.68	19.68
15	16QAM	75	0	19.60	19.64	19.72
15	64QAM	1	0	19.81	19.83	19.93
15	64QAM	1	37	19.82	19.75	19.79
15	64QAM	1	74	19.78	19.65	19.71
15	64QAM	36	0	19.58	19.67	19.77
15	64QAM	36	20	19.64	19.52	19.63
15	64QAM	36	39	19.58	19.74	19.66
15	64QAM	75	0	19.55	19.55	19.51
15	256QAM	1	0	16.67	16.63	16.37
15	256QAM	1	37	16.40	16.54	16.73
15	256QAM	1	74	16.64	16.45	16.39
15	256QAM	36	0	15.42	15.70	15.49
15	256QAM	36	20	15.55	15.65	15.61
15	256QAM	36	39	15.46	15.45	15.35
15	256QAM	75	0	15.46	15.57	15.38



LTE Band 48						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				55290	55990	56690
Frequency (MHz)				3555	3625	3695
10	QPSK		0	21.69	21.78	21.62
10	QPSK	1	25	21.73	21.79	21.45
10	QPSK	1	49	21.64	21.76	21.60
10	QPSK	25	0	20.86	20.95	20.65
10	QPSK	25	12	20.82	20.75	20.72
10	QPSK	25	25	20.70	20.73	20.66
10	QPSK	50	0	20.71	20.87	20.62
10	16QAM	1	0	21.04	20.94	20.79
10	16QAM	1	25	20.84	20.86	20.78
10	16QAM	1	49	20.94	20.89	20.76
10	16QAM	25	0	19.65	19.77	19.72
10	16QAM	25	12	19.66	19.85	19.47
10	16QAM	25	25	19.58	19.63	19.52
10	16QAM	50	0	19.59	19.78	19.61
10	64QAM		0	19.85	19.83	19.74
10	64QAM	1	25	19.74	19.92	19.58
10	64QAM	1	49	19.63	19.82	19.56
10	64QAM	25	0	19.75	19.81	19.65
10	64QAM	25	12	19.56	19.64	19.60
10	64QAM	25	25	19.64	19.63	19.49
10	64QAM	50	0	19.51	19.72	19.41
10	256QAM	1	0	16.64	16.61	16.44
10	256QAM	1	25	16.38	16.59	16.63
10	256QAM	1	49	16.62	16.35	16.37
10	256QAM	25	0	15.49	15.74	15.58
10	256QAM	25	12	15.53	15.64	15.63
10	256QAM	25	25	15.63	15.52	15.34
10	256QAM	50	0	15.41	15.71	15.38



LTE Band 48						
BW [MHz]	Modulation	RB Size	RB Offset	Average Power Low Ch. / Freq.	Average Power Middle Ch. / Freq.	Average Power High Ch. / Freq.
Channel				55265	55990	56175
Frequency (MHz)				3552.5	3625	3697.5
5	QPSK	1	0	21.74	21.76	21.62
5	QPSK	1	12	21.65	21.70	21.53
5	QPSK	1	24	21.63	21.64	21.53
5	QPSK	12	0	20.93	20.84	20.80
5	QPSK	12	7	20.84	20.93	20.53
5	QPSK	12	13	20.65	20.83	20.50
5	QPSK	25	0	20.73	20.70	20.50
5	16QAM	1	0	20.96	20.95	20.87
5	16QAM	1	12	20.88	20.91	20.69
5	16QAM	1	24	20.92	20.94	20.64
5	16QAM	12	0	19.75	19.79	19.70
5	16QAM	12	7	19.70	19.72	19.55
5	16QAM	12	13	19.56	19.80	19.51
5	16QAM	25	0	19.71	19.70	19.57
5	64QAM	1	0	19.90	19.85	19.72
5	64QAM	1	12	19.76	19.80	19.57
5	64QAM	1	24	19.71	19.78	19.64
5	64QAM	12	0	19.67	19.73	19.50
5	64QAM	12	7	19.52	19.55	19.67
5	64QAM	12	13	19.74	19.60	19.57
5	64QAM	25	0	19.66	19.55	19.48
5	256QAM	1	0	16.70	16.63	16.51
5	256QAM	1	12	16.47	16.54	16.70
5	256QAM	1	24	16.58	16.51	16.31
5	256QAM	12	0	15.52	15.65	15.61
5	256QAM	12	7	15.48	15.66	15.72
5	256QAM	12	13	15.44	15.44	15.40
5	256QAM	25	0	15.41	15.67	15.43

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

LTE Band 42				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43190		43340		43490	
Frequency (MHz)				3560		3575		3590	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.10	0.162	22.13	0.163	22.08	0.161
20	QPSK	1	49	21.56	0.143	21.70	0.148	21.55	0.143
20	QPSK	1	99	21.65	0.146	21.66	0.147	21.49	0.141
20	QPSK	50	0	21.15	0.130	21.22	0.132	21.15	0.130
20	QPSK	50	24	20.63	0.116	20.74	0.119	20.62	0.115
20	QPSK	50	50	20.61	0.115	20.80	0.120	20.44	0.111
20	QPSK	100	0	20.67	0.117	20.73	0.118	20.71	0.118
20	16QAM	1	0	20.85	0.122	20.85	0.122	20.78	0.120
20	16QAM	1	49	20.80	0.120	21.01	0.126	21.01	0.126
20	16QAM	1	99	20.88	0.122	21.02	0.126	20.73	0.118
20	16QAM	50	0	19.83	0.096	19.83	0.096	19.79	0.095
20	16QAM	50	24	19.69	0.093	19.79	0.095	19.78	0.095
20	16QAM	50	50	19.79	0.095	19.78	0.095	19.55	0.090
20	16QAM	100	0	19.60	0.091	19.61	0.091	19.71	0.094
20	64QAM	1	0	19.63	0.092	19.81	0.096	19.58	0.091
20	64QAM	1	49	19.60	0.091	19.79	0.095	19.71	0.094
20	64QAM	1	99	19.69	0.093	19.75	0.094	19.67	0.093
20	64QAM	50	0	18.75	0.075	18.90	0.078	18.61	0.073
20	64QAM	50	24	18.85	0.077	18.61	0.073	18.87	0.077
20	64QAM	50	50	18.87	0.077	18.61	0.073	18.66	0.073
20	64QAM	100	0	18.63	0.073	18.81	0.076	18.68	0.074
20	256QAM	1	0	16.40	0.044	16.51	0.045	16.49	0.045
20	256QAM	1	49	16.39	0.044	16.46	0.044	16.50	0.045
20	256QAM	1	99	16.30	0.043	16.30	0.043	16.36	0.043
20	256QAM	50	0	15.36	0.034	15.40	0.035	15.32	0.034
20	256QAM	50	24	15.28	0.034	15.44	0.035	15.34	0.034
20	256QAM	50	50	15.24	0.033	15.34	0.034	15.27	0.034
20	256QAM	100	0	15.31	0.034	15.39	0.035	15.34	0.034



LTE Band 42				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43165		43340		43515	
Frequency (MHz)				3557.5		3575		3592.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.67	0.147	21.69	0.148	21.64	0.146
15	QPSK	1	37	21.60	0.145	21.63	0.146	21.49	0.141
15	QPSK	1	74	21.48	0.141	21.56	0.143	21.48	0.141
15	QPSK	36	0	20.75	0.119	20.80	0.120	20.64	0.116
15	QPSK	36	20	20.67	0.117	20.73	0.118	20.72	0.118
15	QPSK	36	39	20.71	0.118	20.68	0.117	20.55	0.114
15	QPSK	75	0	20.74	0.119	20.74	0.119	20.69	0.117
15	16QAM	1	0	20.83	0.121	20.94	0.124	20.96	0.125
15	16QAM	1	37	20.79	0.120	20.98	0.125	20.93	0.124
15	16QAM	1	74	20.74	0.119	20.96	0.125	20.82	0.121
15	16QAM	36	0	19.89	0.097	19.82	0.096	19.80	0.095
15	16QAM	36	20	19.73	0.094	19.79	0.095	19.73	0.094
15	16QAM	36	39	19.64	0.092	19.69	0.093	19.56	0.090
15	16QAM	75	0	19.69	0.093	19.63	0.092	19.64	0.092
15	64QAM	1	0	19.65	0.092	19.88	0.097	19.67	0.093
15	64QAM	1	37	19.78	0.095	19.76	0.095	19.58	0.091
15	64QAM	1	74	19.95	0.099	19.75	0.094	19.66	0.092
15	64QAM	36	0	18.62	0.073	18.92	0.078	18.70	0.074
15	64QAM	36	20	18.80	0.076	18.77	0.075	18.80	0.076
15	64QAM	36	39	18.69	0.074	18.64	0.073	18.64	0.073
15	64QAM	75	0	18.79	0.076	18.84	0.077	18.54	0.071
15	256QAM	1	0	16.45	0.044	16.59	0.046	16.36	0.043
15	256QAM	1	37	16.34	0.043	16.41	0.044	16.36	0.043
15	256QAM	1	74	16.39	0.044	16.25	0.042	16.27	0.042
15	256QAM	36	0	15.20	0.033	15.46	0.035	15.36	0.034
15	256QAM	36	20	15.43	0.035	15.48	0.035	15.42	0.035
15	256QAM	36	39	15.37	0.034	15.32	0.034	15.33	0.034
15	256QAM	75	0	15.36	0.034	15.49	0.035	15.41	0.035



LTE Band 42				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43140		43340		43540	
Frequency (MHz)				3555		3575		3595	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.68	0.147	21.71	0.148	21.65	0.146
10	QPSK	1	25	21.70	0.148	21.67	0.147	21.60	0.145
10	QPSK	1	49	21.58	0.144	21.64	0.146	21.59	0.144
10	QPSK	25	0	20.81	0.121	20.78	0.120	20.76	0.119
10	QPSK	25	12	20.73	0.118	20.68	0.117	20.65	0.116
10	QPSK	25	25	20.62	0.115	20.76	0.119	20.53	0.113
10	QPSK	50	0	20.65	0.116	20.69	0.117	20.62	0.115
10	16QAM	1	0	20.80	0.120	20.86	0.122	20.85	0.122
10	16QAM	1	25	20.86	0.122	21.02	0.126	20.91	0.123
10	16QAM	1	49	20.83	0.121	21.01	0.126	20.70	0.117
10	16QAM	25	0	19.88	0.097	19.91	0.098	19.90	0.098
10	16QAM	25	12	19.66	0.092	19.77	0.095	19.67	0.093
10	16QAM	25	25	19.69	0.093	19.87	0.097	19.62	0.092
10	16QAM	50	0	19.55	0.090	19.64	0.092	19.79	0.095
10	64QAM	1	0	19.64	0.092	19.90	0.098	19.63	0.092
10	64QAM	1	25	19.69	0.093	19.66	0.092	19.69	0.093
10	64QAM	1	49	19.91	0.098	19.77	0.095	19.67	0.093
10	64QAM	25	0	18.66	0.073	18.96	0.079	18.61	0.073
10	64QAM	25	12	18.83	0.076	18.65	0.073	18.73	0.075
10	64QAM	25	25	18.85	0.077	18.79	0.076	18.65	0.073
10	64QAM	50	0	18.65	0.073	18.91	0.078	18.69	0.074
10	256QAM	1	0	16.35	0.043	16.41	0.044	16.44	0.044
10	256QAM	1	25	16.36	0.043	16.37	0.043	16.50	0.045
10	256QAM	1	49	16.29	0.043	16.31	0.043	16.38	0.043
10	256QAM	25	0	15.44	0.035	15.38	0.035	15.38	0.035
10	256QAM	25	12	15.37	0.034	15.44	0.035	15.37	0.034
10	256QAM	25	25	15.36	0.034	15.34	0.034	15.30	0.034
10	256QAM	50	0	15.30	0.034	15.45	0.035	15.37	0.034



LTE Band 42				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43115		43340		43565	
Frequency (MHz)				3552.5		3575		3597.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.64	0.146	21.70	0.148	21.67	0.147
5	QPSK	1	12	21.66	0.147	21.66	0.147	21.49	0.141
5	QPSK	1	24	21.53	0.142	21.57	0.144	21.53	0.142
5	QPSK	12	0	20.80	0.120	20.81	0.121	20.73	0.118
5	QPSK	12	7	20.64	0.116	20.87	0.122	20.75	0.119
5	QPSK	12	13	20.64	0.116	20.78	0.120	20.56	0.114
5	QPSK	25	0	20.59	0.115	20.63	0.116	20.80	0.120
5	16QAM	1	0	20.78	0.120	20.92	0.124	20.96	0.125
5	16QAM	1	12	20.95	0.124	20.87	0.122	21.00	0.126
5	16QAM	1	24	20.76	0.119	21.09	0.129	20.75	0.119
5	16QAM	12	0	19.94	0.099	19.80	0.095	19.85	0.097
5	16QAM	12	7	19.71	0.094	19.73	0.094	19.83	0.096
5	16QAM	12	13	19.60	0.091	19.69	0.093	19.70	0.093
5	16QAM	25	0	19.54	0.090	19.60	0.091	19.74	0.094
5	64QAM	1	0	19.63	0.092	19.91	0.098	19.58	0.091
5	64QAM	1	12	19.76	0.095	19.78	0.095	19.72	0.094
5	64QAM	1	24	19.84	0.096	19.76	0.095	19.61	0.091
5	64QAM	12	0	18.63	0.073	18.96	0.079	18.74	0.075
5	64QAM	12	7	18.79	0.076	18.66	0.073	18.71	0.074
5	64QAM	12	13	18.68	0.074	18.73	0.075	18.66	0.073
5	64QAM	25	0	18.64	0.073	18.91	0.078	18.68	0.074
5	256QAM	1	0	16.50	0.045	16.44	0.044	16.33	0.043
5	256QAM	1	12	16.37	0.043	16.45	0.044	16.37	0.043
5	256QAM	1	24	16.31	0.043	16.28	0.042	16.33	0.043
5	256QAM	12	0	15.41	0.035	15.55	0.036	15.35	0.034
5	256QAM	12	7	15.39	0.035	15.40	0.035	15.36	0.034
5	256QAM	12	13	15.28	0.034	15.34	0.034	15.38	0.035
5	256QAM	25	0	15.36	0.034	15.35	0.034	15.30	0.034



LTE Band 43				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43690		44090		44490	
Frequency (MHz)				3610		3650		3690	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	21.79	0.151	21.84	0.153	21.78	0.151
20	QPSK	1	49	21.65	0.146	21.76	0.150	21.64	0.146
20	QPSK	1	99	21.59	0.144	21.59	0.144	21.61	0.145
20	QPSK	50	0	20.88	0.122	20.89	0.123	20.67	0.117
20	QPSK	50	24	20.64	0.116	20.76	0.119	20.67	0.117
20	QPSK	50	50	20.78	0.120	20.85	0.122	20.69	0.117
20	QPSK	100	0	20.66	0.116	20.77	0.119	20.69	0.117
20	16QAM	1	0	20.90	0.123	20.93	0.124	21.02	0.126
20	16QAM	1	49	20.94	0.124	20.96	0.125	21.03	0.127
20	16QAM	1	99	20.82	0.121	21.01	0.126	20.83	0.121
20	16QAM	50	0	19.90	0.098	19.94	0.099	19.86	0.097
20	16QAM	50	24	19.69	0.093	19.86	0.097	19.68	0.093
20	16QAM	50	50	19.77	0.095	19.78	0.095	19.67	0.093
20	16QAM	100	0	19.60	0.091	19.71	0.094	19.88	0.097
20	64QAM	1	0	19.87	0.097	19.96	0.099	19.71	0.094
20	64QAM	1	49	19.71	0.094	19.87	0.097	19.89	0.097
20	64QAM	1	99	19.80	0.095	19.68	0.093	19.61	0.091
20	64QAM	50	0	18.69	0.074	18.93	0.078	18.80	0.076
20	64QAM	50	24	18.70	0.074	18.82	0.076	18.90	0.078
20	64QAM	50	50	18.78	0.076	18.74	0.075	18.59	0.072
20	64QAM	100	0	18.68	0.074	18.87	0.077	18.58	0.072
20	256QAM	1	0	16.68	0.047	16.79	0.048	16.54	0.045
20	256QAM	1	49	16.53	0.045	16.63	0.046	16.74	0.047
20	256QAM	1	99	16.55	0.045	16.49	0.045	16.40	0.044
20	256QAM	50	0	15.40	0.035	15.80	0.038	15.69	0.037
20	256QAM	50	24	15.40	0.035	15.66	0.037	15.79	0.038
20	256QAM	50	50	15.61	0.036	15.58	0.036	15.47	0.035
20	256QAM	100	0	15.58	0.036	15.71	0.037	15.48	0.035



LTE Band 43				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43665		44090		445151	
Frequency (MHz)				3607.5		3650		3692.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.74	0.149	21.80	0.151	21.72	0.149
15	QPSK	1	37	21.64	0.146	21.60	0.145	21.51	0.142
15	QPSK	1	74	21.61	0.145	21.65	0.146	21.47	0.140
15	QPSK	36	0	20.89	0.123	20.91	0.123	20.87	0.122
15	QPSK	36	20	20.72	0.118	20.74	0.119	20.77	0.119
15	QPSK	36	39	20.89	0.123	20.71	0.118	20.60	0.115
15	QPSK	75	0	20.75	0.119	20.85	0.122	20.78	0.120
15	16QAM	1	0	20.85	0.122	20.94	0.124	20.96	0.125
15	16QAM	1	37	20.99	0.126	20.98	0.125	21.03	0.127
15	16QAM	1	74	20.84	0.121	20.88	0.122	20.74	0.119
15	16QAM	36	0	19.89	0.097	19.89	0.097	19.81	0.096
15	16QAM	36	20	19.64	0.092	19.94	0.099	19.79	0.095
15	16QAM	36	39	19.65	0.092	19.76	0.095	19.62	0.092
15	16QAM	75	0	19.65	0.092	19.83	0.096	19.97	0.099
15	64QAM	1	0	19.83	0.096	19.97	0.099	19.73	0.094
15	64QAM	1	37	19.63	0.092	19.79	0.095	19.79	0.095
15	64QAM	1	74	19.79	0.095	19.82	0.096	19.70	0.093
15	64QAM	36	0	18.76	0.075	18.89	0.077	18.86	0.077
15	64QAM	36	20	18.63	0.073	18.81	0.076	18.86	0.077
15	64QAM	36	39	18.84	0.077	18.84	0.077	18.68	0.074
15	64QAM	75	0	18.79	0.076	18.89	0.077	18.60	0.072
15	256QAM	1	0	16.75	0.047	16.68	0.047	16.45	0.044
15	256QAM	1	37	16.46	0.044	16.67	0.046	16.65	0.046
15	256QAM	1	74	16.52	0.045	16.55	0.045	16.46	0.044
15	256QAM	36	0	15.53	0.036	15.79	0.038	15.55	0.036
15	256QAM	36	20	15.54	0.036	15.60	0.036	15.68	0.037
15	256QAM	36	39	15.53	0.036	15.54	0.036	15.31	0.034
15	256QAM	75	0	15.44	0.035	15.69	0.037	15.43	0.035



LTE Band 43				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43640		44090		44540	
Frequency (MHz)				3605		3650		3695	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.72	0.149	21.78	0.151	21.73	0.149
10	QPSK	1	25	21.67	0.147	21.72	0.149	21.59	0.144
10	QPSK	1	49	21.59	0.144	21.69	0.148	21.57	0.144
10	QPSK	25	0	20.87	0.122	20.82	0.121	20.75	0.119
10	QPSK	25	12	20.73	0.118	20.90	0.123	20.76	0.119
10	QPSK	25	25	20.71	0.118	20.85	0.122	20.58	0.114
10	QPSK	50	0	20.68	0.117	20.71	0.118	20.75	0.119
10	16QAM	1	0	20.90	0.123	20.96	0.125	20.90	0.123
10	16QAM	1	25	20.93	0.124	20.99	0.126	20.95	0.124
10	16QAM	1	49	20.86	0.122	21.04	0.127	20.82	0.121
10	16QAM	25	0	19.91	0.098	19.94	0.099	19.87	0.097
10	16QAM	25	12	19.69	0.093	19.85	0.097	19.80	0.095
10	16QAM	25	25	19.73	0.094	19.82	0.096	19.67	0.093
10	16QAM	50	0	19.68	0.093	19.70	0.093	19.74	0.094
10	64QAM	1	0	19.77	0.095	19.94	0.099	19.69	0.093
10	64QAM	1	25	19.72	0.094	19.77	0.095	19.72	0.094
10	64QAM	1	49	19.91	0.098	19.77	0.095	19.68	0.093
10	64QAM	25	0	18.71	0.074	19.00	0.079	18.70	0.074
10	64QAM	25	12	18.81	0.076	18.72	0.074	18.82	0.076
10	64QAM	25	25	18.82	0.076	18.75	0.075	18.66	0.073
10	64QAM	50	0	18.77	0.075	18.89	0.077	18.52	0.071
10	256QAM	1	0	16.63	0.046	16.68	0.047	16.56	0.045
10	256QAM	1	25	16.53	0.045	16.57	0.045	16.70	0.047
10	256QAM	1	49	16.50	0.045	16.56	0.045	16.44	0.044
10	256QAM	25	0	15.47	0.035	15.75	0.038	15.60	0.036
10	256QAM	25	12	15.45	0.035	15.68	0.037	15.80	0.038
10	256QAM	25	25	15.66	0.037	15.62	0.036	15.45	0.035
10	256QAM	50	0	15.57	0.036	15.65	0.037	15.48	0.035



LTE Band 43				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				43615		44090		44565	
Frequency (MHz)				3602.5		3650		3697.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.73	0.149	21.79	0.151	21.70	0.148
5	QPSK	1	12	21.63	0.146	21.64	0.146	21.51	0.142
5	QPSK	1	24	21.65	0.146	21.66	0.147	21.56	0.143
5	QPSK	12	0	20.76	0.119	20.91	0.123	20.80	0.120
5	QPSK	12	7	20.79	0.120	20.85	0.122	20.80	0.120
5	QPSK	12	13	20.71	0.118	20.72	0.118	20.62	0.115
5	QPSK	25	0	20.66	0.116	20.77	0.119	20.77	0.119
5	16QAM	1	0	20.86	0.122	20.91	0.123	21.04	0.127
5	16QAM	1	12	20.80	0.120	21.05	0.127	21.06	0.128
5	16QAM	1	24	20.95	0.124	20.89	0.123	20.87	0.122
5	16QAM	12	0	19.78	0.095	19.91	0.098	19.91	0.098
5	16QAM	12	7	19.59	0.091	19.82	0.096	19.83	0.096
5	16QAM	12	13	19.69	0.093	19.84	0.096	19.65	0.092
5	16QAM	25	0	19.61	0.091	19.79	0.095	19.89	0.097
5	64QAM	1	0	19.93	0.098	19.88	0.097	19.89	0.097
5	64QAM	1	12	19.73	0.094	19.92	0.098	19.92	0.098
5	64QAM	1	24	19.86	0.097	19.69	0.093	19.63	0.092
5	64QAM	12	0	18.71	0.074	18.93	0.078	18.72	0.074
5	64QAM	12	7	18.69	0.074	18.85	0.077	18.91	0.078
5	64QAM	12	13	18.87	0.077	18.84	0.077	18.61	0.073
5	64QAM	25	0	18.85	0.077	18.73	0.075	18.54	0.071
5	256QAM	1	0	16.76	0.047	16.74	0.047	16.61	0.046
5	256QAM	1	12	16.43	0.044	16.69	0.047	16.79	0.048
5	256QAM	1	24	16.69	0.047	16.57	0.045	16.45	0.044
5	256QAM	12	0	15.45	0.035	15.72	0.037	15.60	0.036
5	256QAM	12	7	15.59	0.036	15.57	0.036	15.80	0.038
5	256QAM	12	13	15.57	0.036	15.61	0.036	15.43	0.035
5	256QAM	25	0	15.49	0.035	15.62	0.036	15.45	0.035



LTE Band 48				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				55340		55990		56640	
Frequency (MHz)				3560		3625		3690	
				dBm	W	dBm	W	dBm	W
20	QPSK	1	0	22.03	0.160	22.09	0.162	21.96	0.157
20	QPSK	1	49	21.53	0.142	21.55	0.143	21.57	0.144
20	QPSK	1	99	21.59	0.144	21.59	0.144	21.53	0.142
20	QPSK	50	0	21.13	0.130	21.16	0.131	20.89	0.123
20	QPSK	50	24	20.58	0.114	20.63	0.116	20.56	0.114
20	QPSK	50	50	20.58	0.114	20.71	0.118	20.36	0.109
20	QPSK	100	0	20.60	0.115	20.60	0.115	20.34	0.108
20	16QAM	1	0	20.86	0.122	20.91	0.123	20.71	0.118
20	16QAM	1	49	20.76	0.119	20.73	0.118	20.57	0.114
20	16QAM	1	99	20.74	0.119	20.79	0.120	20.60	0.115
20	16QAM	50	0	19.52	0.090	19.60	0.091	19.54	0.090
20	16QAM	50	24	19.54	0.090	19.63	0.092	19.35	0.086
20	16QAM	50	50	19.52	0.090	19.65	0.092	19.29	0.085
20	16QAM	100	0	19.55	0.090	19.59	0.091	19.39	0.087
20	64QAM	1	0	19.72	0.094	19.77	0.095	19.63	0.092
20	64QAM	1	49	19.72	0.094	19.68	0.093	19.55	0.090
20	64QAM	1	99	19.53	0.090	19.69	0.093	19.41	0.087
20	64QAM	50	0	19.52	0.090	19.66	0.092	19.38	0.087
20	64QAM	50	24	19.41	0.087	19.53	0.090	19.42	0.087
20	64QAM	50	50	19.57	0.091	19.52	0.090	19.33	0.086
20	64QAM	100	0	19.52	0.090	19.60	0.091	19.28	0.085
20	256QAM	1	0	16.53	0.045	16.54	0.045	16.26	0.042
20	256QAM	1	49	16.41	0.044	16.43	0.044	16.47	0.044
20	256QAM	1	99	16.41	0.044	16.23	0.042	16.31	0.043
20	256QAM	50	0	15.26	0.034	15.59	0.036	15.31	0.034
20	256QAM	50	24	15.32	0.034	15.49	0.035	15.44	0.035
20	256QAM	50	50	15.31	0.034	15.30	0.034	15.28	0.034
20	256QAM	100	0	15.31	0.034	15.51	0.036	15.16	0.033



LTE Band 48				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				55315		55990		56665	
Frequency (MHz)				3557.5		3625		3692.5	
				dBm	W	dBm	W	dBm	W
15	QPSK	1	0	21.57	0.144	21.65	0.146	21.59	0.144
15	QPSK	1	37	21.51	0.142	21.54	0.143	21.57	0.144
15	QPSK	1	74	21.53	0.142	21.59	0.144	21.49	0.141
15	QPSK	36	0	20.63	0.116	20.69	0.117	20.63	0.116
15	QPSK	36	20	20.65	0.116	20.67	0.117	20.69	0.117
15	QPSK	36	39	20.66	0.116	20.69	0.117	20.55	0.114
15	QPSK	75	0	20.56	0.114	20.64	0.116	20.68	0.117
15	16QAM	1	0	20.92	0.124	20.88	0.122	20.90	0.123
15	16QAM	1	37	20.86	0.122	20.73	0.118	20.75	0.119
15	16QAM	1	74	20.74	0.119	20.77	0.119	20.63	0.116
15	16QAM	36	0	19.50	0.089	19.67	0.093	19.58	0.091
15	16QAM	36	20	19.47	0.089	19.58	0.091	19.52	0.090
15	16QAM	36	39	19.44	0.088	19.54	0.090	19.54	0.090
15	16QAM	75	0	19.46	0.088	19.50	0.089	19.58	0.091
15	64QAM	1	0	19.67	0.093	19.69	0.093	19.79	0.095
15	64QAM	1	37	19.68	0.093	19.61	0.091	19.65	0.092
15	64QAM	1	74	19.64	0.092	19.51	0.089	19.57	0.091
15	64QAM	36	0	19.44	0.088	19.53	0.090	19.63	0.092
15	64QAM	36	20	19.50	0.089	19.38	0.087	19.49	0.089
15	64QAM	36	39	19.44	0.088	19.60	0.091	19.52	0.090
15	64QAM	75	0	19.41	0.087	19.41	0.087	19.37	0.086
15	256QAM	1	0	16.53	0.045	16.49	0.045	16.23	0.042
15	256QAM	1	37	16.26	0.042	16.40	0.044	16.59	0.046
15	256QAM	1	74	16.50	0.045	16.31	0.043	16.25	0.042
15	256QAM	36	0	15.28	0.034	15.56	0.036	15.35	0.034
15	256QAM	36	20	15.41	0.035	15.51	0.036	15.47	0.035
15	256QAM	36	39	15.32	0.034	15.31	0.034	15.21	0.033
15	256QAM	75	0	15.32	0.034	15.43	0.035	15.24	0.033



LTE Band 48				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				55290		55990		56690	
Frequency (MHz)				3555		3625		3695	
				dBm	W	dBm	W	dBm	W
10	QPSK	1	0	21.55	0.143	21.64	0.146	21.48	0.141
10	QPSK	1	25	21.59	0.144	21.65	0.146	21.31	0.135
10	QPSK	1	49	21.50	0.141	21.62	0.145	21.46	0.140
10	QPSK	25	0	20.72	0.118	20.81	0.121	20.51	0.112
10	QPSK	25	12	20.68	0.117	20.61	0.115	20.58	0.114
10	QPSK	25	25	20.56	0.114	20.59	0.115	20.52	0.113
10	QPSK	50	0	20.57	0.114	20.73	0.118	20.48	0.112
10	16QAM	1	0	20.90	0.123	20.80	0.120	20.65	0.116
10	16QAM	1	25	20.70	0.117	20.72	0.118	20.64	0.116
10	16QAM	1	49	20.80	0.120	20.75	0.119	20.62	0.115
10	16QAM	25	0	19.51	0.089	19.63	0.092	19.58	0.091
10	16QAM	25	12	19.52	0.090	19.71	0.094	19.33	0.086
10	16QAM	25	25	19.44	0.088	19.49	0.089	19.38	0.087
10	16QAM	50	0	19.45	0.088	19.64	0.092	19.47	0.089
10	64QAM	1	0	19.71	0.094	19.69	0.093	19.60	0.091
10	64QAM	1	25	19.60	0.091	19.78	0.095	19.44	0.088
10	64QAM	1	49	19.49	0.089	19.68	0.093	19.42	0.087
10	64QAM	25	0	19.61	0.091	19.67	0.093	19.51	0.089
10	64QAM	25	12	19.42	0.087	19.50	0.089	19.46	0.088
10	64QAM	25	25	19.50	0.089	19.49	0.089	19.35	0.086
10	64QAM	50	0	19.37	0.086	19.58	0.091	19.27	0.085
10	256QAM	1	0	16.50	0.045	16.47	0.044	16.30	0.043
10	256QAM	1	25	16.24	0.042	16.45	0.044	16.49	0.045
10	256QAM	1	49	16.48	0.044	16.21	0.042	16.23	0.042
10	256QAM	25	0	15.35	0.034	15.60	0.036	15.44	0.035
10	256QAM	25	12	15.39	0.035	15.50	0.035	15.49	0.035
10	256QAM	25	25	15.49	0.035	15.38	0.035	15.20	0.033
10	256QAM	50	0	15.27	0.034	15.57	0.036	15.24	0.033



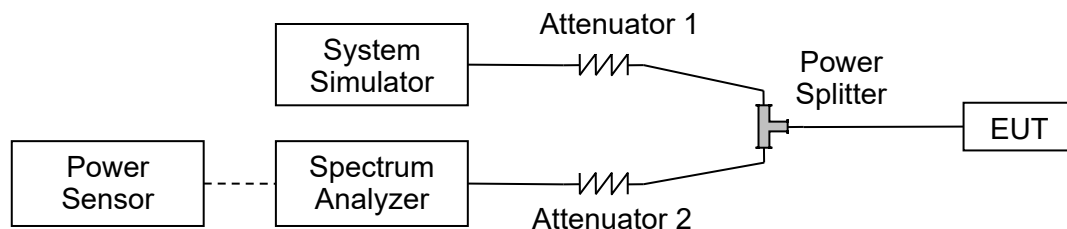
LTE Band 48				Measured E.I.R.P.					
BW [MHz]	Modulation	RB Size	RB Offset	Low Ch. / Freq.		Middle Ch. / Freq.		High Ch. / Freq.	
Channel				55265		55990		56175	
Frequency (MHz)				3552.5		3625		3697.5	
				dBm	W	dBm	W	dBm	W
5	QPSK	1	0	21.60	0.145	21.62	0.145	21.48	0.141
5	QPSK	1	12	21.51	0.142	21.56	0.143	21.39	0.138
5	QPSK	1	24	21.49	0.141	21.50	0.141	21.39	0.138
5	QPSK	12	0	20.79	0.120	20.70	0.117	20.66	0.116
5	QPSK	12	7	20.70	0.117	20.79	0.120	20.39	0.109
5	QPSK	12	13	20.51	0.112	20.69	0.117	20.36	0.109
5	QPSK	25	0	20.59	0.115	20.56	0.114	20.36	0.109
5	16QAM	1	0	20.82	0.121	20.81	0.121	20.73	0.118
5	16QAM	1	12	20.74	0.119	20.77	0.119	20.55	0.114
5	16QAM	1	24	20.78	0.120	20.80	0.120	20.50	0.112
5	16QAM	12	0	19.61	0.091	19.65	0.092	19.56	0.090
5	16QAM	12	7	19.56	0.090	19.58	0.091	19.41	0.087
5	16QAM	12	13	19.42	0.087	19.66	0.092	19.37	0.086
5	16QAM	25	0	19.57	0.091	19.56	0.090	19.43	0.088
5	64QAM	1	0	19.76	0.095	19.71	0.094	19.58	0.091
5	64QAM	1	12	19.62	0.092	19.66	0.092	19.43	0.088
5	64QAM	1	24	19.57	0.091	19.64	0.092	19.50	0.089
5	64QAM	12	0	19.53	0.090	19.59	0.091	19.36	0.086
5	64QAM	12	7	19.38	0.087	19.41	0.087	19.53	0.090
5	64QAM	12	13	19.60	0.091	19.46	0.088	19.43	0.088
5	64QAM	25	0	19.52	0.090	19.41	0.087	19.34	0.086
5	256QAM	1	0	16.56	0.045	16.49	0.045	16.37	0.043
5	256QAM	1	12	16.33	0.043	16.40	0.044	16.56	0.045
5	256QAM	1	24	16.44	0.044	16.37	0.043	16.17	0.041
5	256QAM	12	0	15.38	0.035	15.51	0.036	15.47	0.035
5	256QAM	12	7	15.34	0.034	15.52	0.036	15.58	0.036
5	256QAM	12	13	15.30	0.034	15.30	0.034	15.26	0.034
5	256QAM	25	0	15.27	0.034	15.53	0.036	15.29	0.034

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
B42	5	Low	43115	3552.5	QPSK	4.52	5.10	PASS
B42	5	Low	43115	3552.5	16QAM	4.51	5.12	PASS
B42	5	Low	43115	3552.5	64QAM	4.52	5.16	PASS
B42	5	Low	43115	3552.5	256QAM	4.52	5.07	PASS
B42	5	Mid	43340	3575	QPSK	4.52	5.21	PASS
B42	5	Mid	43340	3575	16QAM	4.51	5.14	PASS
B42	5	Mid	43340	3575	64QAM	4.54	5.09	PASS
B42	5	Mid	43340	3575	256QAM	4.52	5.06	PASS
B42	5	High	43565	3597.5	QPSK	4.54	5.06	PASS
B42	5	High	43565	3597.5	16QAM	4.51	5.06	PASS
B42	5	High	43565	3597.5	64QAM	4.50	4.91	PASS
B42	5	High	43565	3597.5	256QAM	4.47	4.89	PASS
B42	10	Low	43140	3555	QPSK	9.02	9.85	PASS
B42	10	Low	43140	3555	16QAM	9.01	10.04	PASS
B42	10	Low	43140	3555	64QAM	9.02	10.00	PASS
B42	10	Low	43140	3555	256QAM	9.00	10.02	PASS
B42	10	Mid	43340	3575	QPSK	9.00	10.09	PASS
B42	10	Mid	43340	3575	16QAM	8.98	9.90	PASS
B42	10	Mid	43340	3575	64QAM	9.01	9.93	PASS
B42	10	Mid	43340	3575	256QAM	9.00	9.99	PASS
B42	10	High	43540	3595	QPSK	8.99	9.88	PASS
B42	10	High	43540	3595	16QAM	9.02	9.74	PASS
B42	10	High	43540	3595	64QAM	8.98	9.82	PASS
B42	10	High	43540	3595	256QAM	8.99	9.88	PASS
B42	15	Low	43165	3557.5	QPSK	13.47	15.04	PASS
B42	15	Low	43165	3557.5	16QAM	13.48	14.61	PASS
B42	15	Low	43165	3557.5	64QAM	13.46	14.74	PASS
B42	15	Low	43165	3557.5	256QAM	13.46	14.74	PASS
B42	15	Mid	43340	3575	QPSK	13.49	14.62	PASS
B42	15	Mid	43340	3575	16QAM	13.50	14.68	PASS
B42	15	Mid	43340	3575	64QAM	13.47	14.82	PASS
B42	15	Mid	43340	3575	256QAM	13.50	14.86	PASS
B42	15	High	43515	3592.5	QPSK	13.45	14.89	PASS
B42	15	High	43515	3592.5	16QAM	13.47	14.74	PASS
B42	15	High	43515	3592.5	64QAM	13.46	14.61	PASS



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B42	15	High	43515	3592.5	256QAM	13.47	14.72	PASS
B42	20	Low	43190	3560	QPSK	17.97	19.63	PASS
B42	20	Low	43190	3560	16QAM	18.02	19.85	PASS
B42	20	Low	43190	3560	64QAM	17.98	19.52	PASS
B42	20	Low	43190	3560	256QAM	17.95	19.59	PASS
B42	20	Mid	43340	3575	QPSK	17.98	19.93	PASS
B42	20	Mid	43340	3575	16QAM	17.99	19.56	PASS
B42	20	Mid	43340	3575	64QAM	17.93	19.60	PASS
B42	20	Mid	43340	3575	256QAM	18.02	19.64	PASS
B42	20	High	43490	3590	QPSK	17.91	19.62	PASS
B42	20	High	43490	3590	16QAM	17.96	19.26	PASS
B42	20	High	43490	3590	64QAM	17.91	19.30	PASS
B42	20	High	43490	3590	256QAM	17.94	19.44	PASS



LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B43	5	Low	43615	3602.5	QPSK	4.51	5.00	PASS
B43	5	Low	43615	3602.5	16QAM	4.51	5.05	PASS
B43	5	Low	43615	3602.5	64QAM	4.50	5.11	PASS
B43	5	Low	43615	3602.5	256QAM	4.50	5.06	PASS
B43	5	Mid	44090	3650	QPSK	4.49	5.08	PASS
B43	5	Mid	44090	3650	16QAM	4.49	4.98	PASS
B43	5	Mid	44090	3650	64QAM	4.51	5.18	PASS
B43	5	Mid	44090	3650	256QAM	4.50	4.96	PASS
B43	5	High	44565	3697.5	QPSK	4.53	5.11	PASS
B43	5	High	44565	3697.5	16QAM	4.51	5.03	PASS
B43	5	High	44565	3697.5	64QAM	4.54	5.04	PASS
B43	5	High	44565	3697.5	256QAM	4.51	4.90	PASS
B43	10	Low	43640	3605	QPSK	9.00	9.81	PASS
B43	10	Low	43640	3605	16QAM	9.00	9.71	PASS
B43	10	Low	43640	3605	64QAM	9.03	9.79	PASS
B43	10	Low	43640	3605	256QAM	8.99	9.82	PASS
B43	10	Mid	44090	3650	QPSK	8.98	9.65	PASS
B43	10	Mid	44090	3650	16QAM	9.01	10.03	PASS
B43	10	Mid	44090	3650	64QAM	8.96	9.65	PASS
B43	10	Mid	44090	3650	256QAM	8.98	9.89	PASS
B43	10	High	44540	3695	QPSK	8.97	9.98	PASS
B43	10	High	44540	3695	16QAM	8.97	9.99	PASS
B43	10	High	44540	3695	64QAM	8.95	9.85	PASS
B43	10	High	44540	3695	256QAM	9.02	9.71	PASS
B43	15	Low	43665	3607.5	QPSK	13.46	14.65	PASS
B43	15	Low	43665	3607.5	16QAM	13.44	14.78	PASS
B43	15	Low	43665	3607.5	64QAM	13.45	14.56	PASS
B43	15	Low	43665	3607.5	256QAM	13.45	14.63	PASS
B43	15	Mid	44090	3650	QPSK	13.44	14.76	PASS
B43	15	Mid	44090	3650	16QAM	13.43	14.61	PASS
B43	15	Mid	44090	3650	64QAM	13.47	14.51	PASS
B43	15	Mid	44090	3650	256QAM	13.43	14.57	PASS
B43	15	High	44515	3692.5	QPSK	13.51	14.74	PASS
B43	15	High	44515	3692.5	16QAM	13.47	14.69	PASS
B43	15	High	44515	3692.5	64QAM	13.47	14.65	PASS



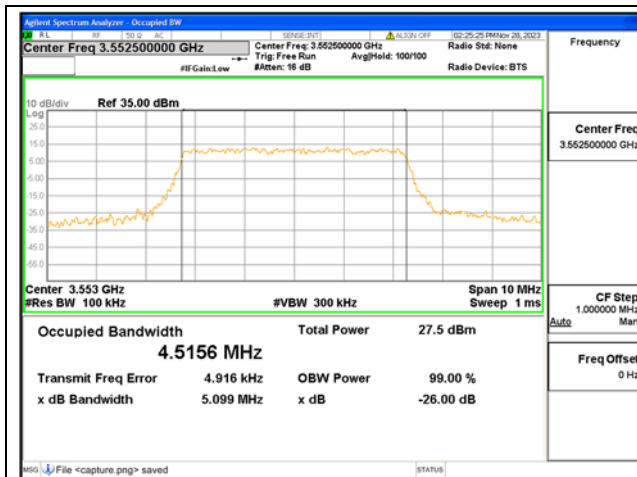
B43	15	High	44515	3692.5	256QAM	13.45	14.58	PASS
B43	20	Low	43690	3610	QPSK	18.02	19.21	PASS
B43	20	Low	43690	3610	16QAM	17.90	19.44	PASS
B43	20	Low	43690	3610	64QAM	17.92	19.70	PASS
B43	20	Low	43690	3610	256QAM	17.67	18.68	PASS
B43	20	Mid	44090	3650	QPSK	17.95	19.48	PASS
B43	20	Mid	44090	3650	16QAM	17.99	19.23	PASS
B43	20	Mid	44090	3650	64QAM	17.90	19.52	PASS
B43	20	Mid	44090	3650	256QAM	17.94	19.21	PASS
B43	20	High	44490	3690	QPSK	17.90	19.52	PASS
B43	20	High	44490	3690	16QAM	17.96	19.50	PASS
B43	20	High	44490	3690	64QAM	17.94	19.58	PASS
B43	20	High	44490	3690	256QAM	17.99	19.52	PASS



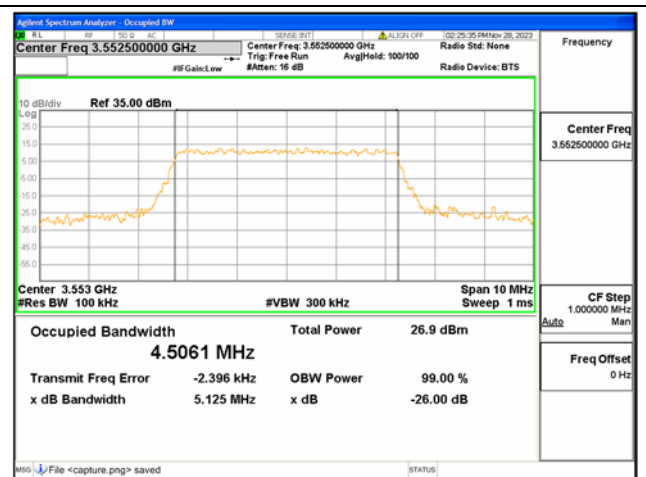
LTE Band	BW(MHz)	Channel Level	Channel	Frequency (MHz)	Modulation	99% BW (MHz)	26dB BW (MHz)	Verdict
B48	5	Low	55265	3552.5	QPSK	4.54	5.14	PASS
B48	5	Low	55265	3552.5	16QAM	4.51	5.08	PASS
B48	5	Low	55265	3552.5	64QAM	4.51	5.12	PASS
B48	5	Low	55265	3552.5	256QAM	4.51	5.06	PASS
B48	5	Mid	55990	3625	QPSK	4.52	5.09	PASS
B48	5	Mid	55990	3625	16QAM	4.52	5.09	PASS
B48	5	Mid	55990	3625	64QAM	4.51	4.99	PASS
B48	5	Mid	55990	3625	256QAM	4.48	5.05	PASS
B48	5	High	56715	3697.5	QPSK	4.50	5.11	PASS
B48	5	High	56715	3697.5	16QAM	4.50	5.04	PASS
B48	5	High	56715	3697.5	64QAM	4.50	5.03	PASS
B48	5	High	56715	3697.5	256QAM	4.47	5.06	PASS
B48	10	Low	55290	3555	QPSK	8.99	9.95	PASS
B48	10	Low	55290	3555	16QAM	8.98	10.05	PASS
B48	10	Low	55290	3555	64QAM	8.98	9.95	PASS
B48	10	Low	55290	3555	256QAM	9.02	9.91	PASS
B48	10	Mid	55990	3625	QPSK	9.00	9.53	PASS
B48	10	Mid	55990	3625	16QAM	8.99	9.91	PASS
B48	10	Mid	55990	3625	64QAM	8.96	9.86	PASS
B48	10	Mid	55990	3625	256QAM	8.95	9.89	PASS
B48	10	High	56690	3695	QPSK	8.97	9.83	PASS
B48	10	High	56690	3695	16QAM	9.02	9.75	PASS
B48	10	High	56690	3695	64QAM	8.98	9.85	PASS
B48	10	High	56690	3695	256QAM	8.97	9.95	PASS
B48	15	Low	55315	3557.5	QPSK	13.48	14.71	PASS
B48	15	Low	55315	3557.5	16QAM	13.49	14.81	PASS
B48	15	Low	55315	3557.5	64QAM	13.51	14.77	PASS
B48	15	Low	55315	3557.5	256QAM	13.36	14.15	PASS
B48	15	Mid	55990	3625	QPSK	13.47	14.44	PASS
B48	15	Mid	55990	3625	16QAM	13.47	14.96	PASS
B48	15	Mid	55990	3625	64QAM	13.43	14.46	PASS
B48	15	Mid	55990	3625	256QAM	13.45	14.58	PASS
B48	15	High	56665	3692.5	QPSK	13.47	14.26	PASS
B48	15	High	56665	3692.5	16QAM	13.46	14.49	PASS
B48	15	High	56665	3692.5	64QAM	13.43	14.47	PASS



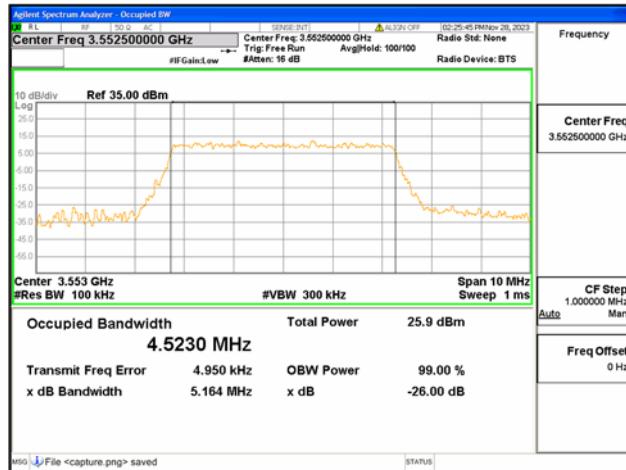
B48	15	High	56665	3692.5	256QAM	13.46	14.62	PASS
B48	20	Low	55340	3560	QPSK	17.97	19.51	PASS
B48	20	Low	55340	3560	16QAM	17.91	19.61	PASS
B48	20	Low	55340	3560	64QAM	18.00	19.54	PASS
B48	20	Low	55340	3560	256QAM	17.93	19.67	PASS
B48	20	Mid	55990	3625	QPSK	17.91	19.31	PASS
B48	20	Mid	55990	3625	16QAM	17.92	19.26	PASS
B48	20	Mid	55990	3625	64QAM	17.94	19.42	PASS
B48	20	Mid	55990	3625	256QAM	18.01	19.50	PASS
B48	20	High	56640	3690	QPSK	17.91	19.38	PASS
B48	20	High	56640	3690	16QAM	17.94	19.24	PASS
B48	20	High	56640	3690	64QAM	17.99	19.35	PASS
B48	20	High	56640	3690	256QAM	17.91	19.26	PASS



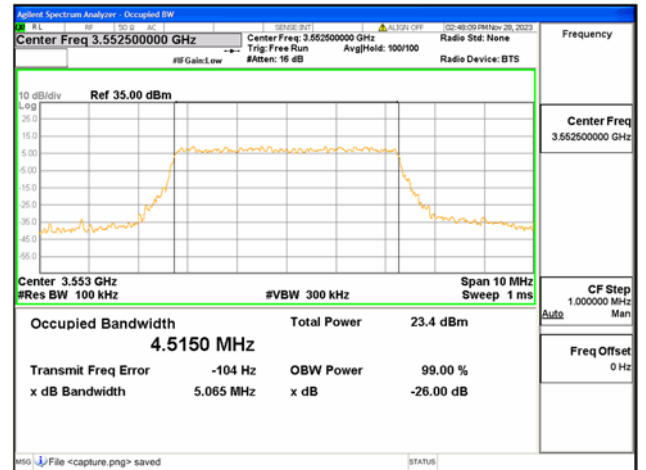
B42 / 5MHz / QPSK/ Low CH



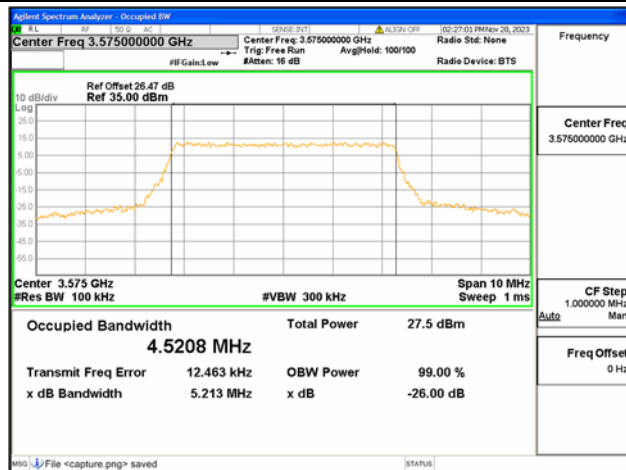
B42 / 5MHz / 16QAM/ Low CH



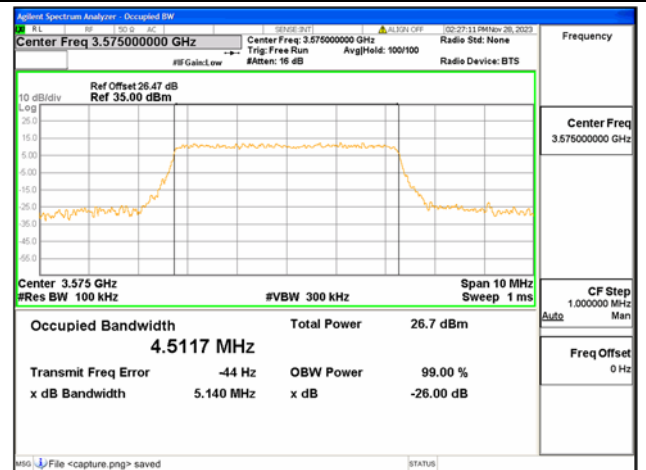
B42 / 5MHz / 64QAM/ Low CH



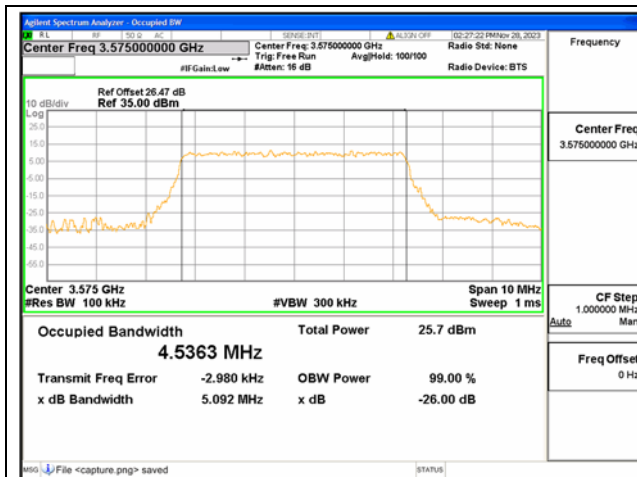
B42 / 5MHz / 256QAM/ Low CH



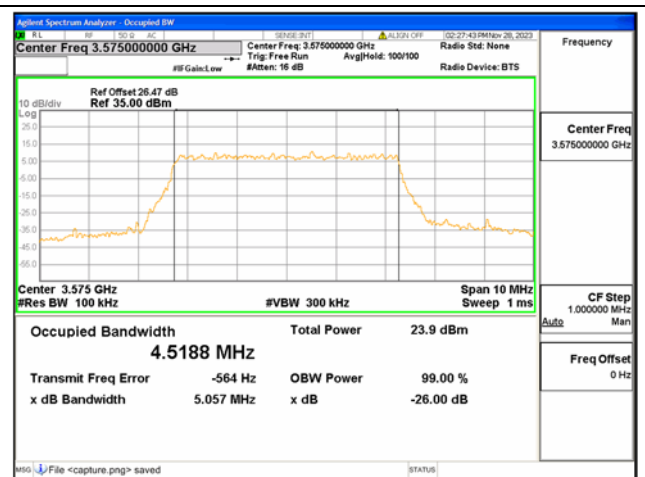
B42 / 5MHz / QPSK/ Mid CH



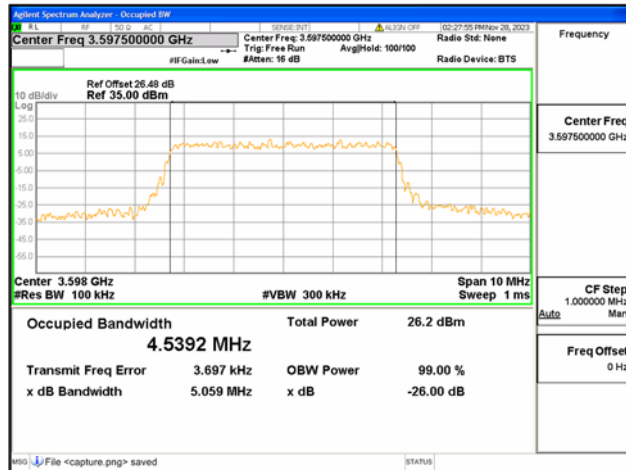
B42 / 5MHz / 16QAM/ Mid CH



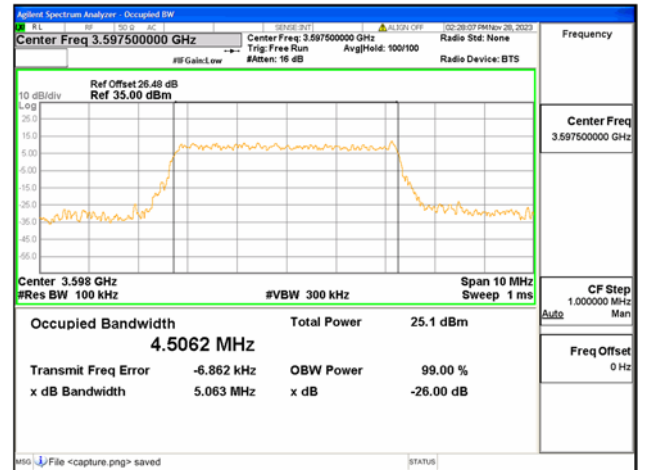
B42 / 5MHz / 64QAM/ Mid CH



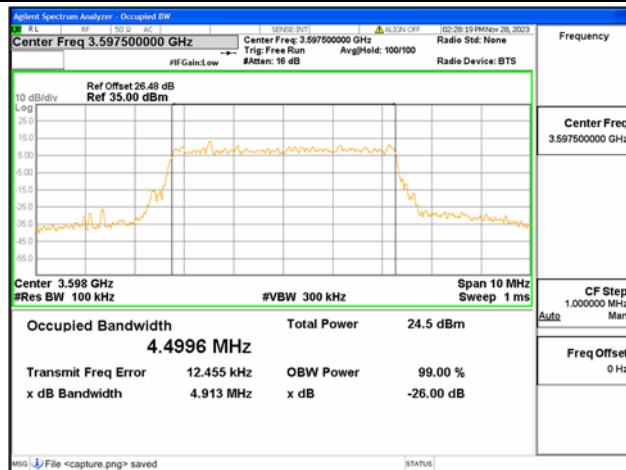
B42 / 5MHz / 256QAM/ Mid CH



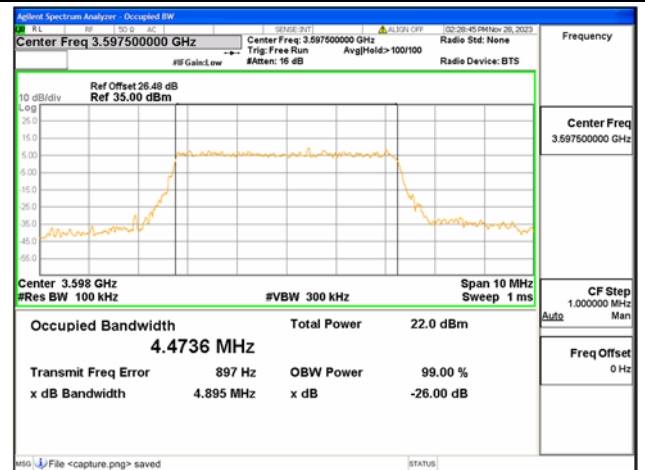
B42 / 5MHz / QPSK/ High CH



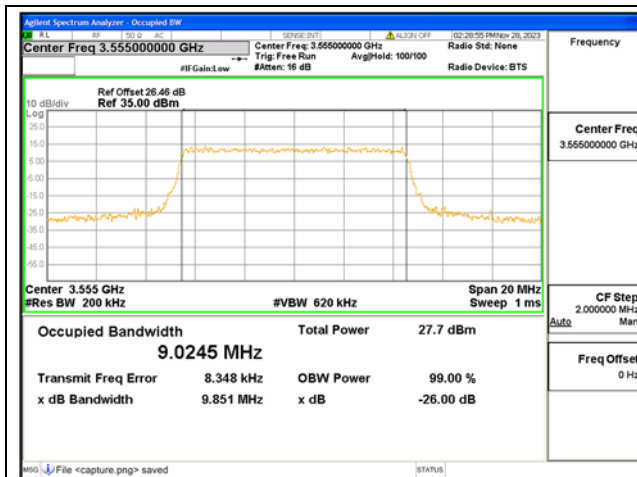
B42 / 5MHz / 16QAM/ High CH



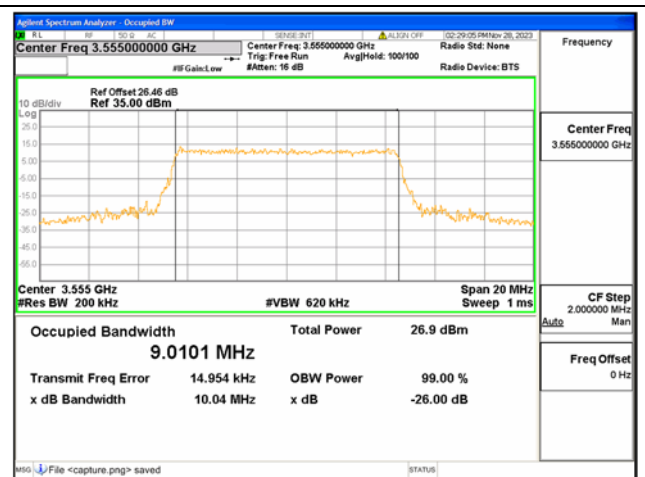
B42 / 5MHz / 64QAM/ High CH



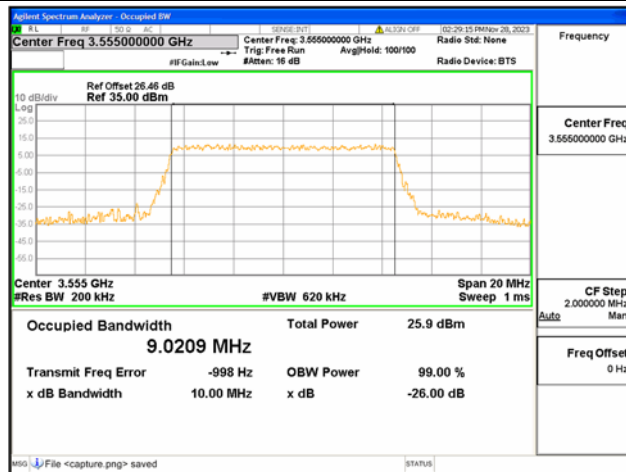
B42 / 5MHz / 256QAM/ High CH



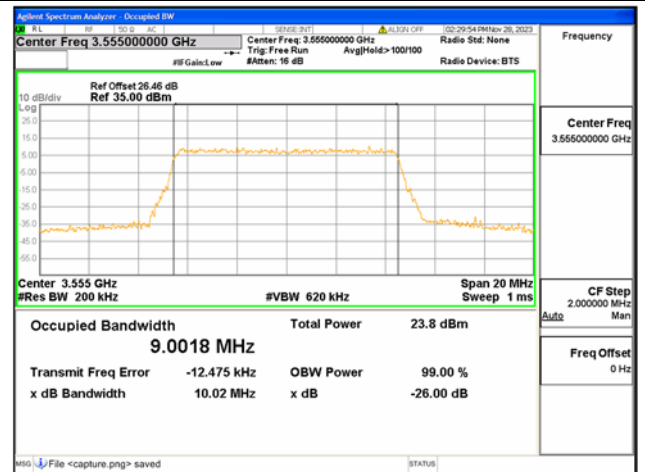
B42 / 10MHz / QPSK/ Low CH



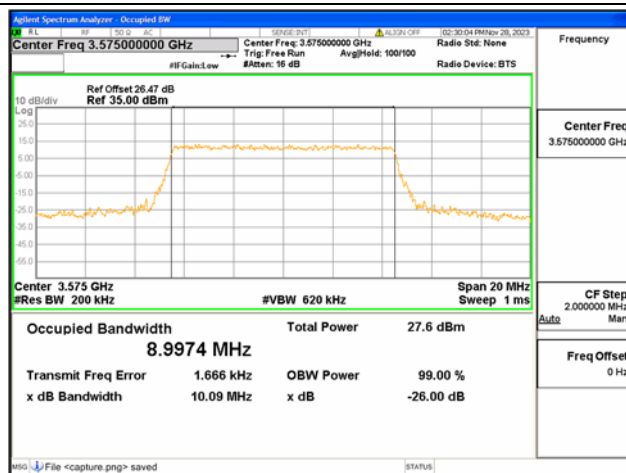
B42 / 10MHz / 16QAM/ Low CH



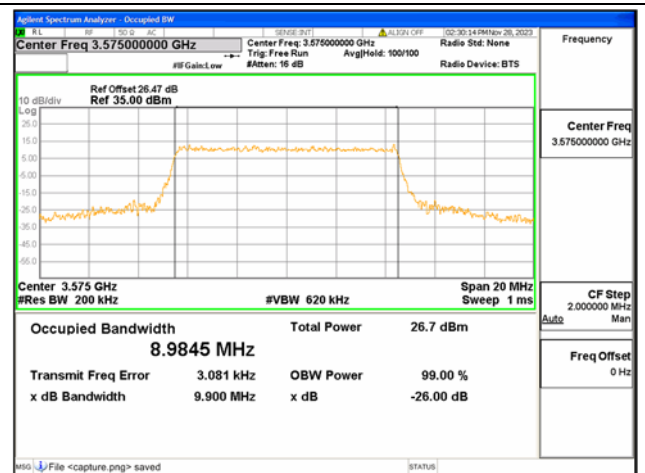
B42 / 10MHz / 64QAM/ Low CH



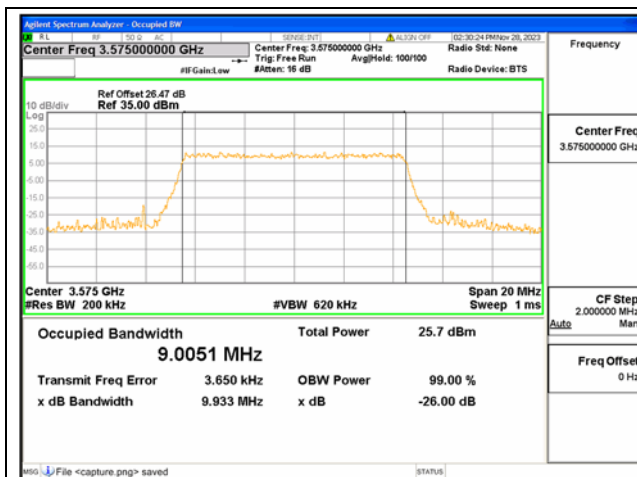
B42 / 10MHz / 256QAM/ Low CH



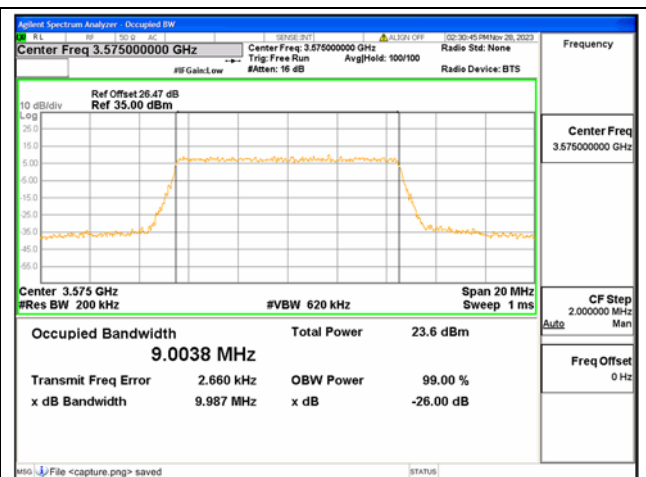
B42 / 10MHz / QPSK/ Mid CH



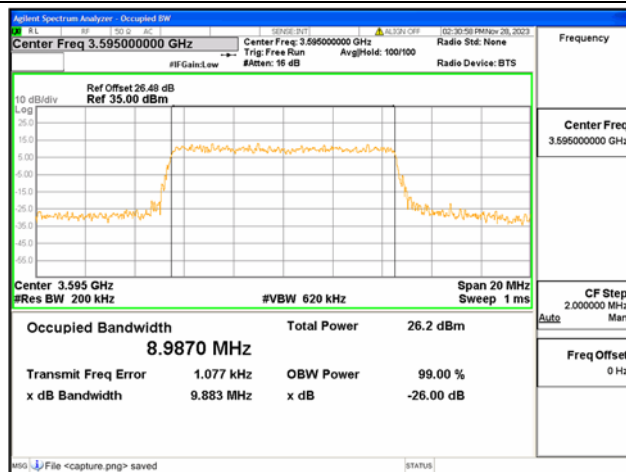
B42 / 10MHz / 16QAM/ Mid CH



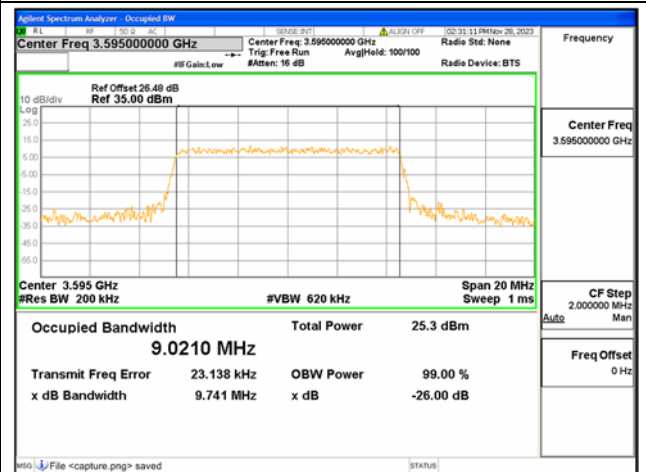
B42 / 10MHz / 64QAM/ Mid CH



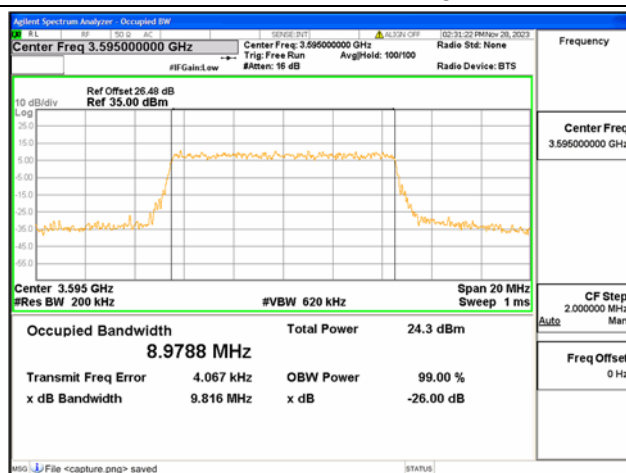
B42 / 10MHz / 256QAM/ Mid CH



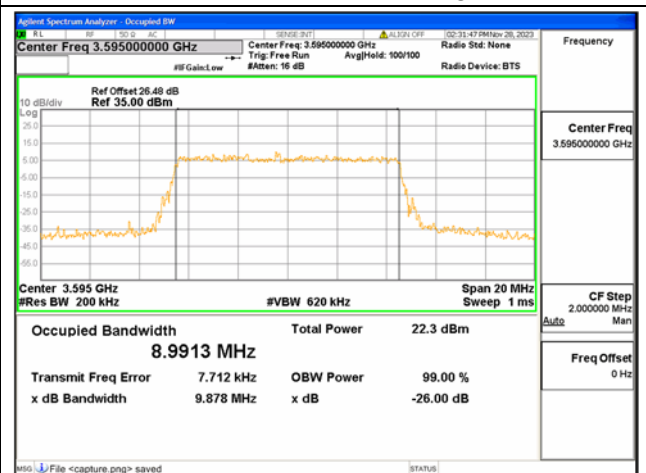
B42 / 10MHz / QPSK/ High CH



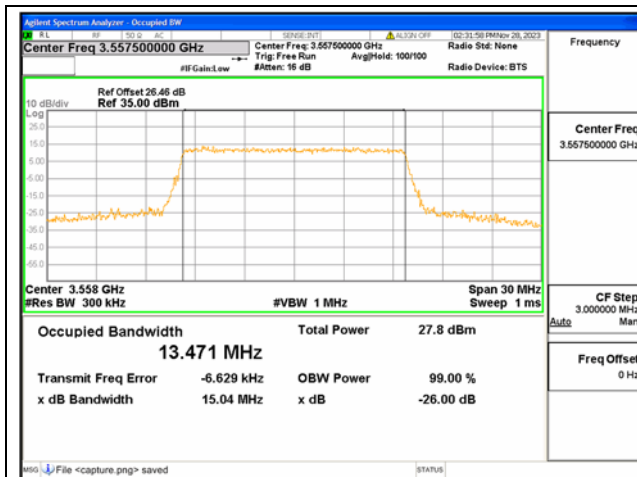
B42 / 10MHz / 16QAM/ High CH



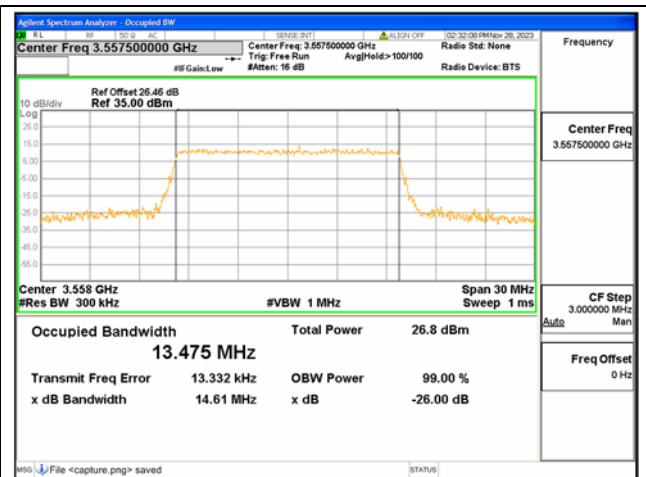
B42 / 10MHz / 64QAM/ High CH



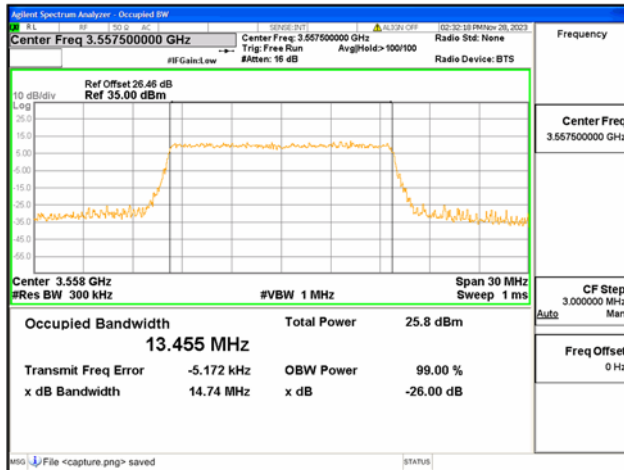
B42 / 10MHz / 256QAM/ High CH



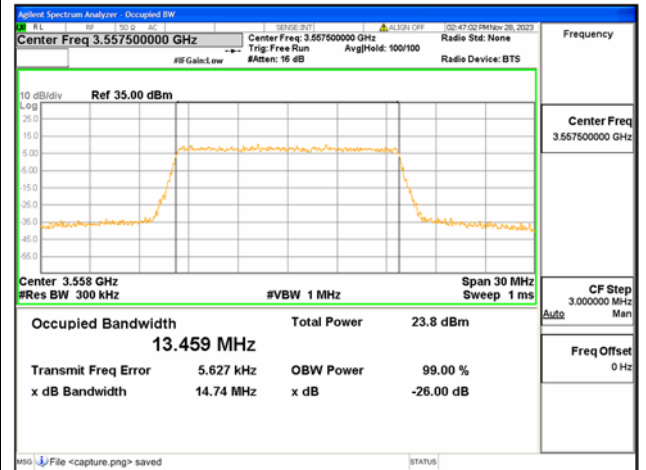
B42 / 15MHz / QPSK/ Low CH



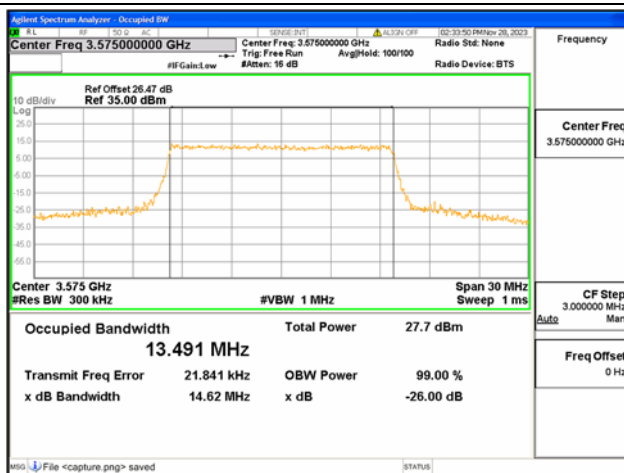
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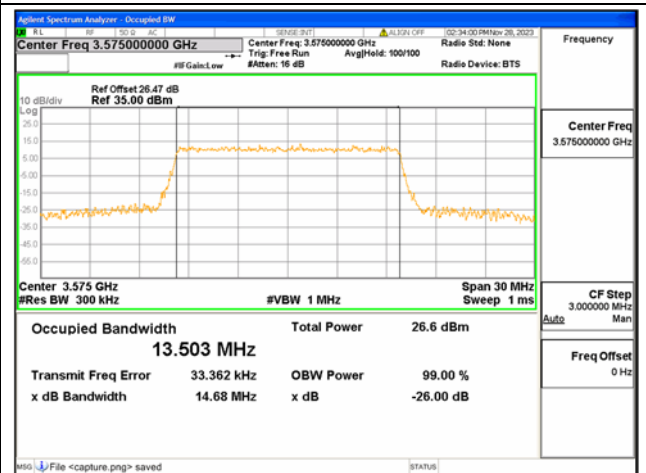
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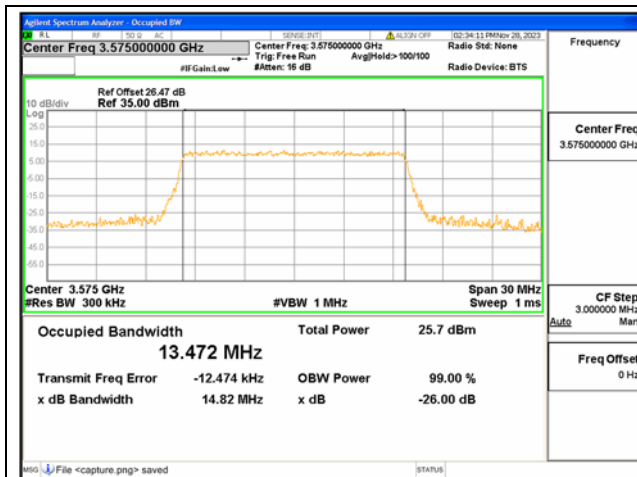
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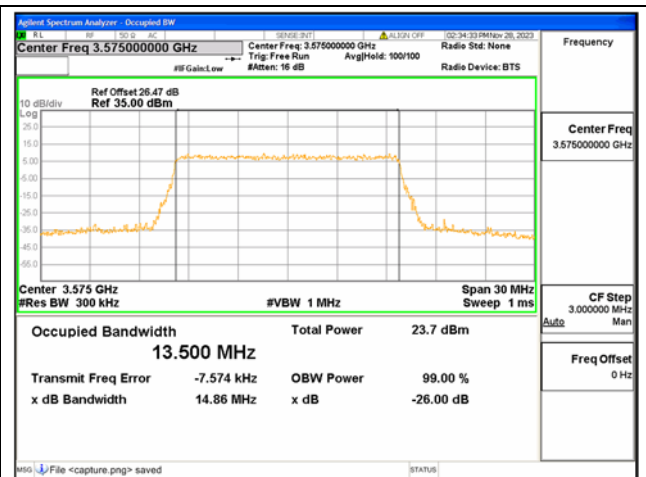
B42 / 15MHz / QPSK/ Mid CH



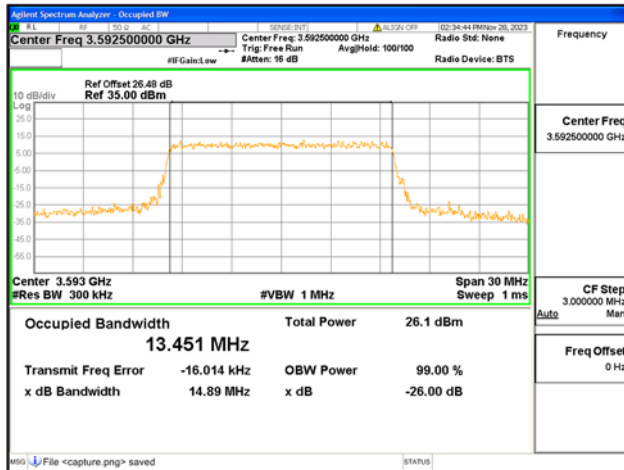
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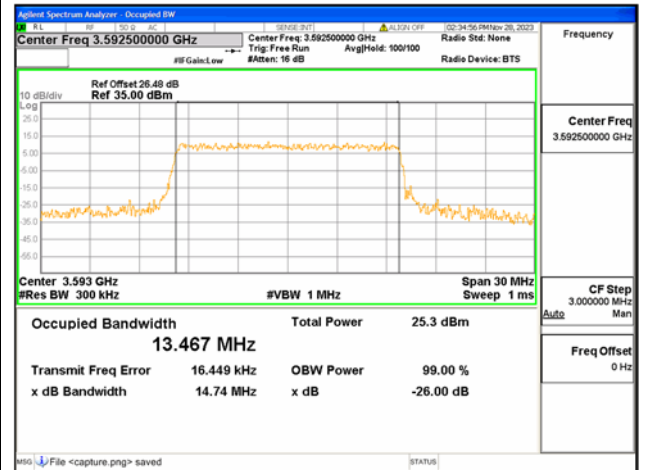
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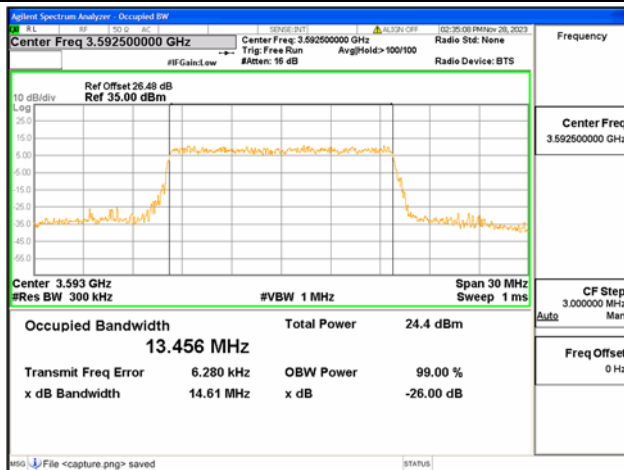
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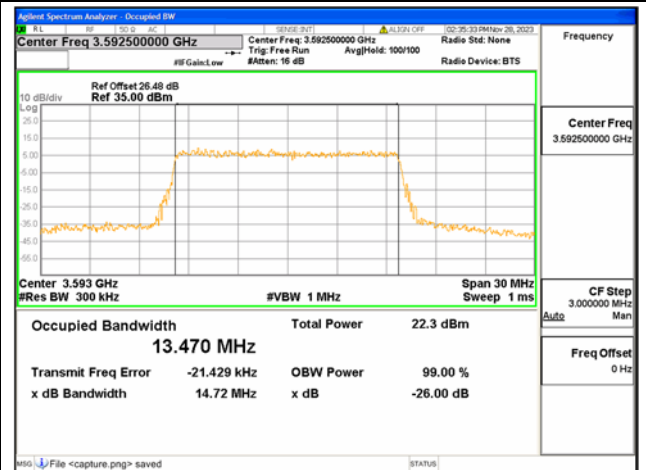
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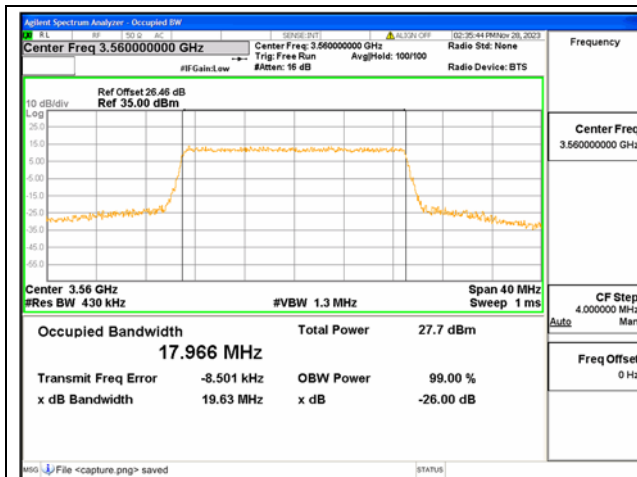
B42 / 15MHz / 16QAM/ High CH



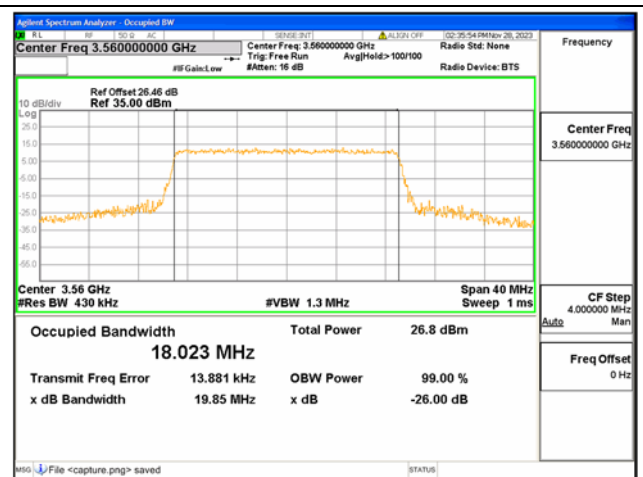
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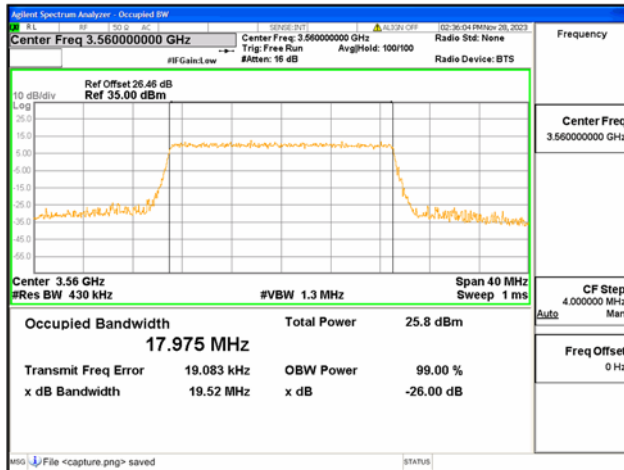
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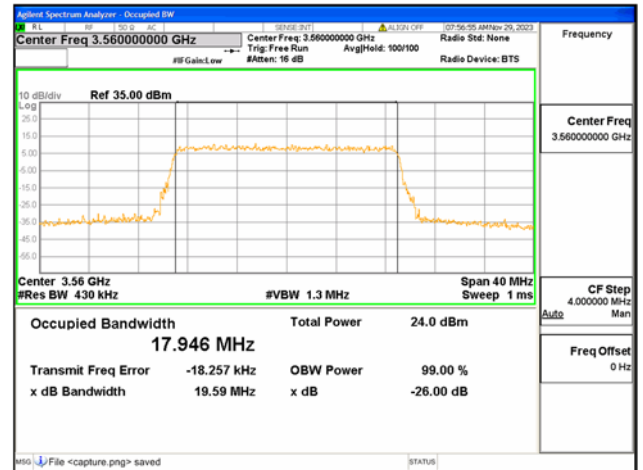
B42 / 20MHz / QPSK/ Low CH



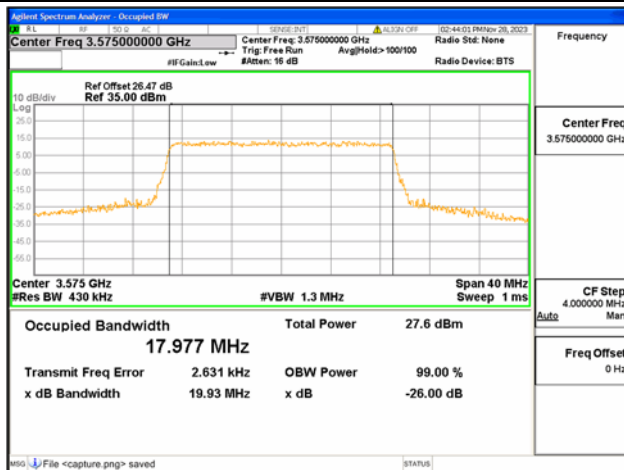
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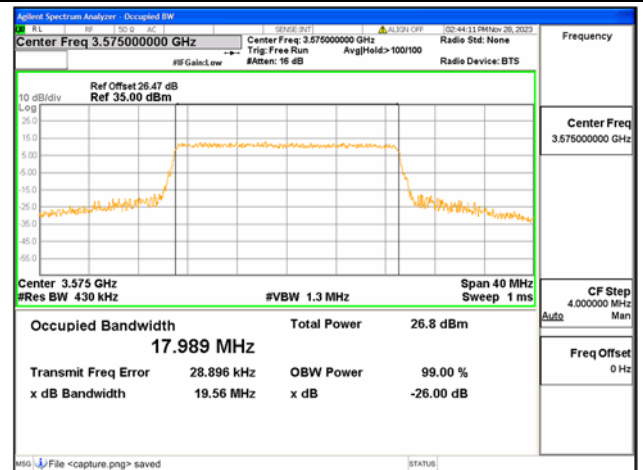
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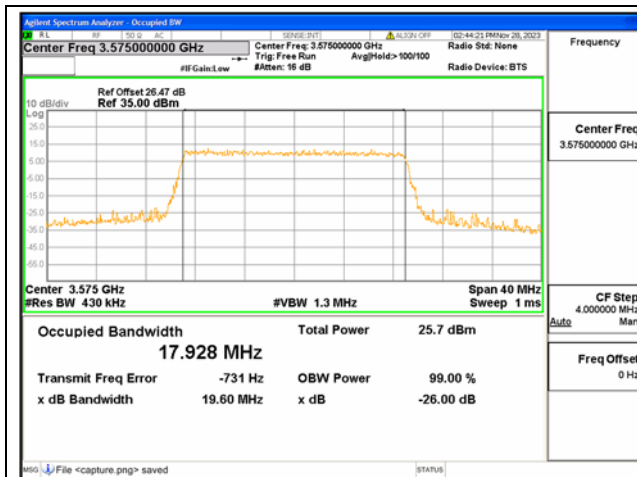
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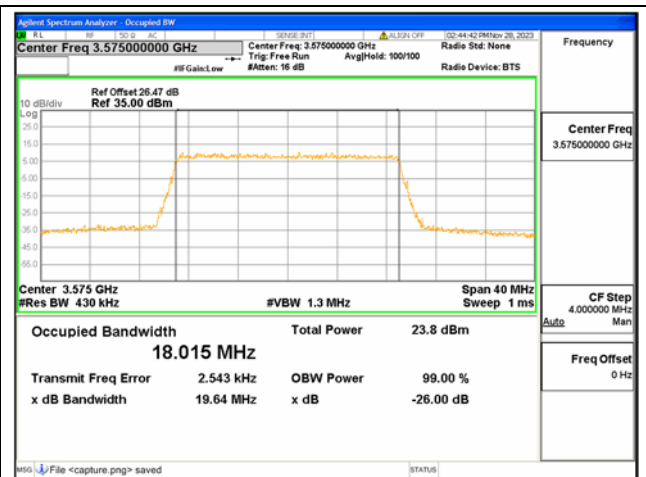
B42 / 20MHz / QPSK/ Mid CH



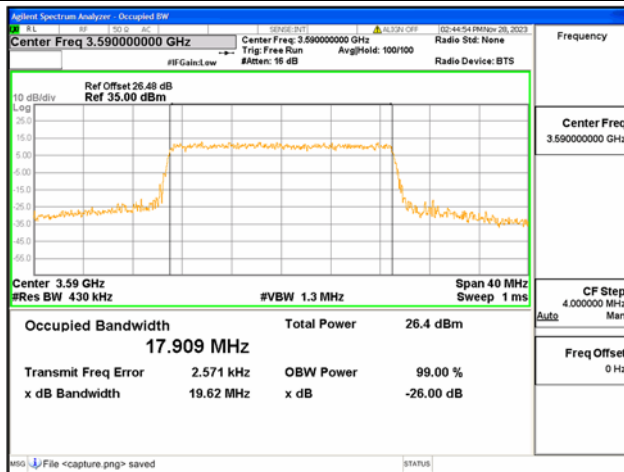
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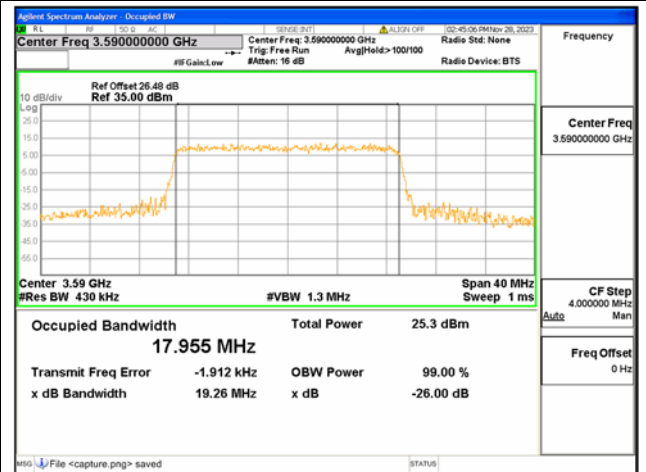
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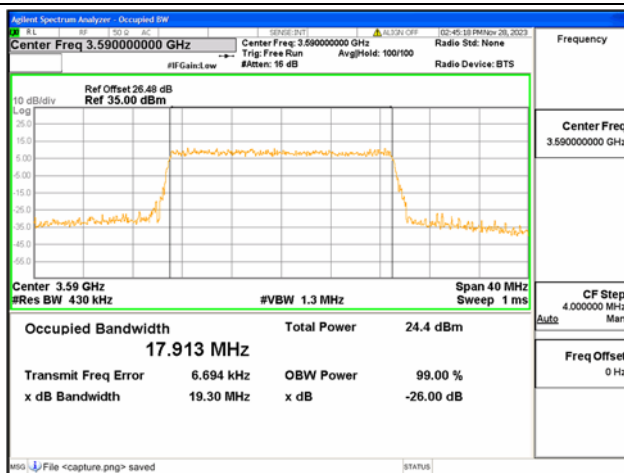
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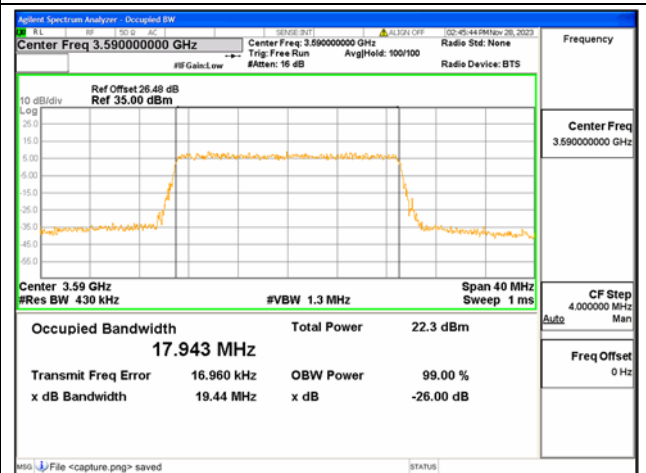
B42 / 20MHz / QPSK/ High CH



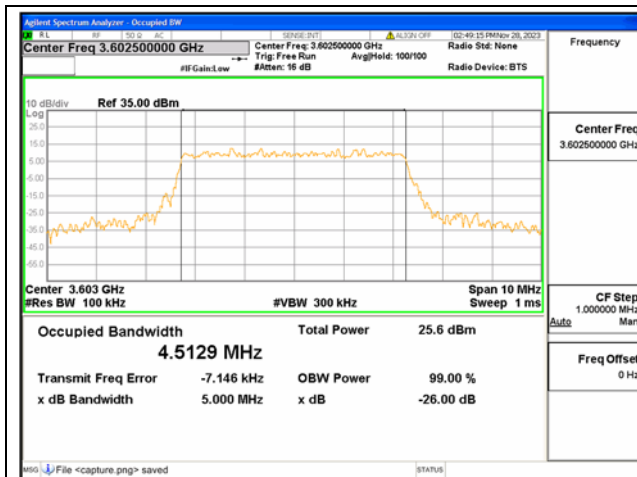
B42 / 20MHz / 16QAM/ High CH



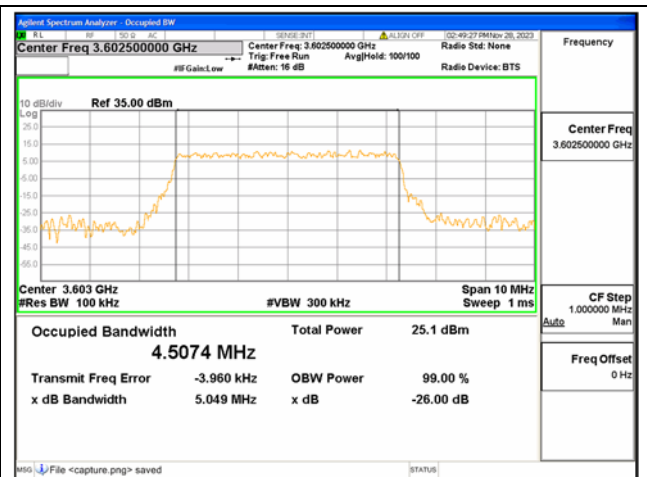
B42 / 20MHz / 64QAM/ High CH



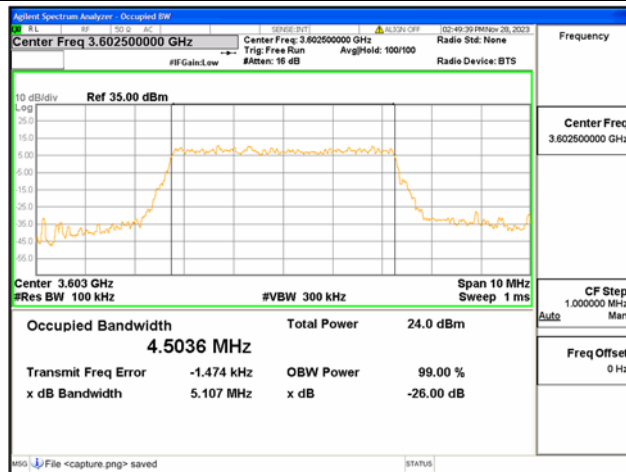
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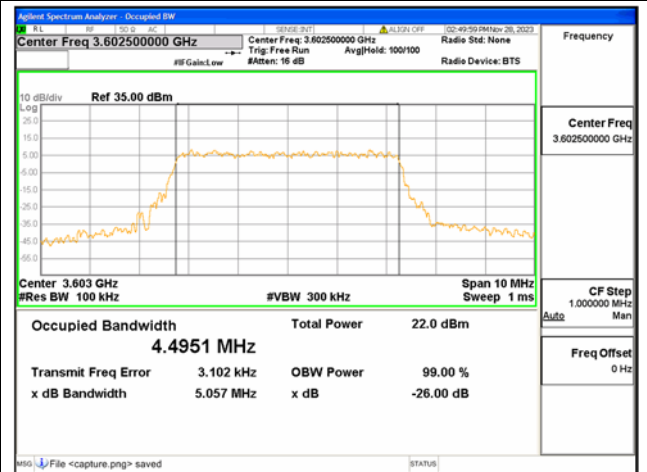
B43 / 5MHz / QPSK/ Low CH



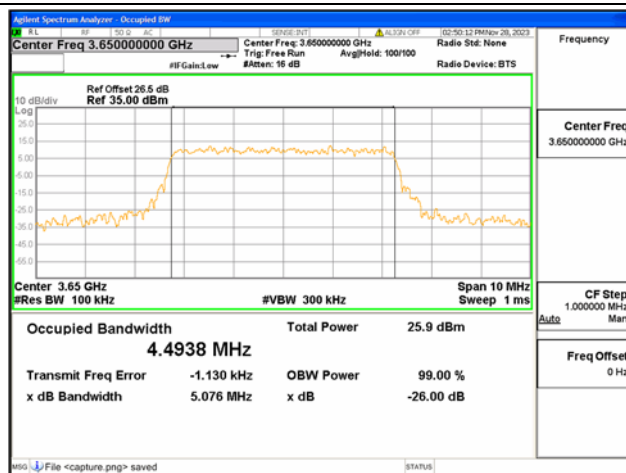
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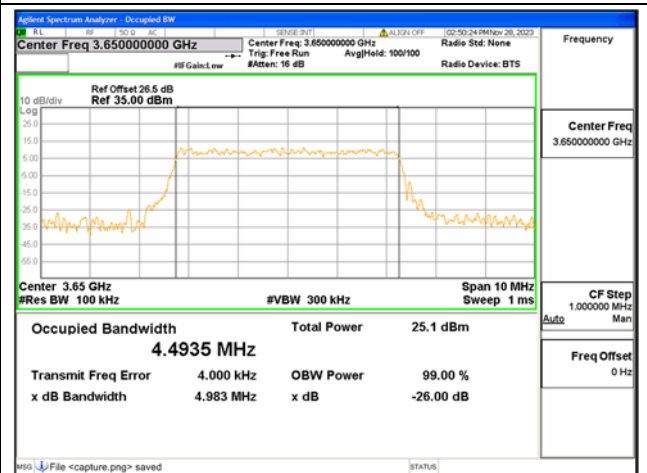
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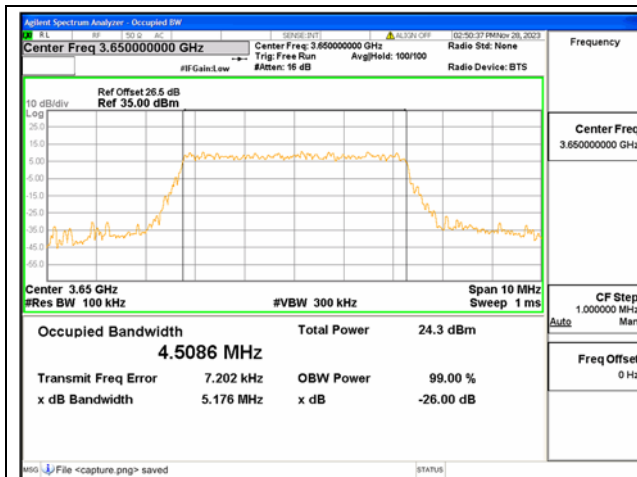
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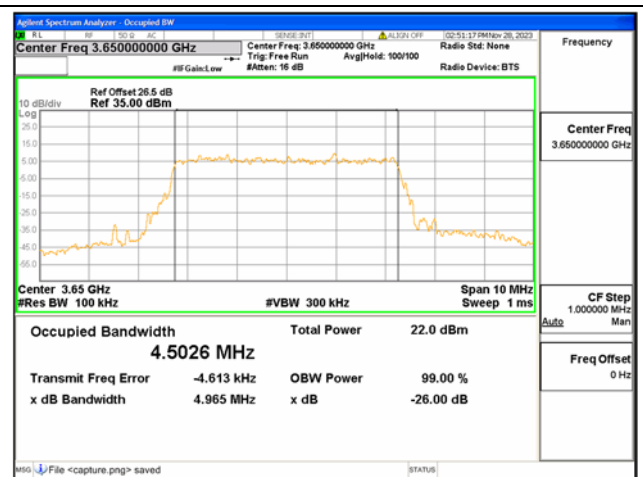
B43 / 5MHz / QPSK/ Mid CH



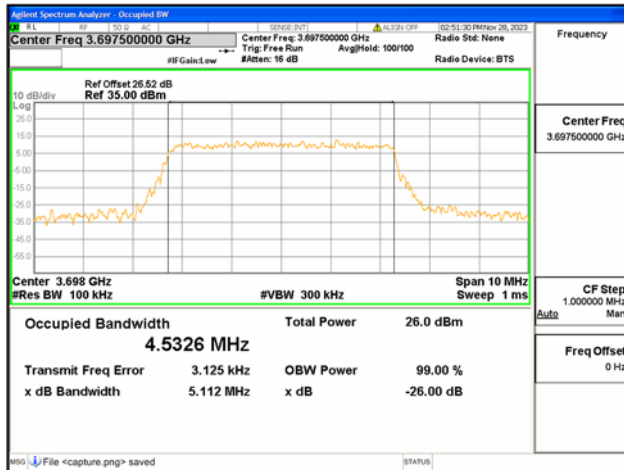
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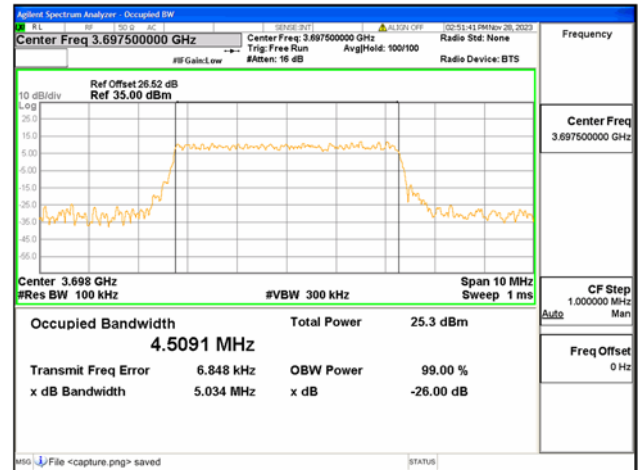
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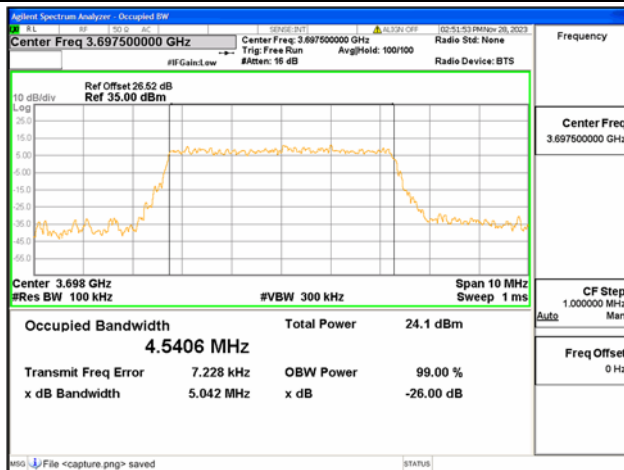
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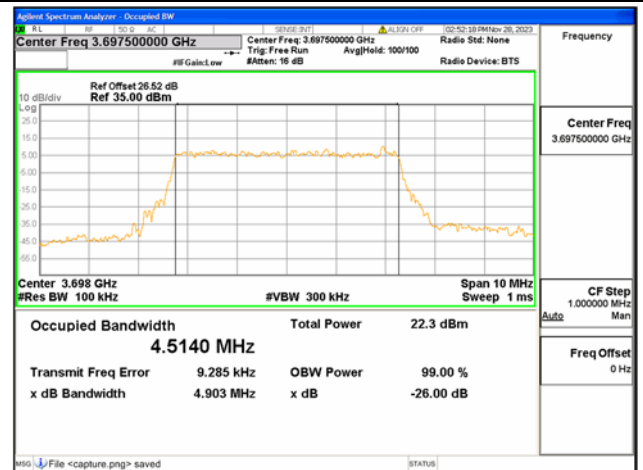
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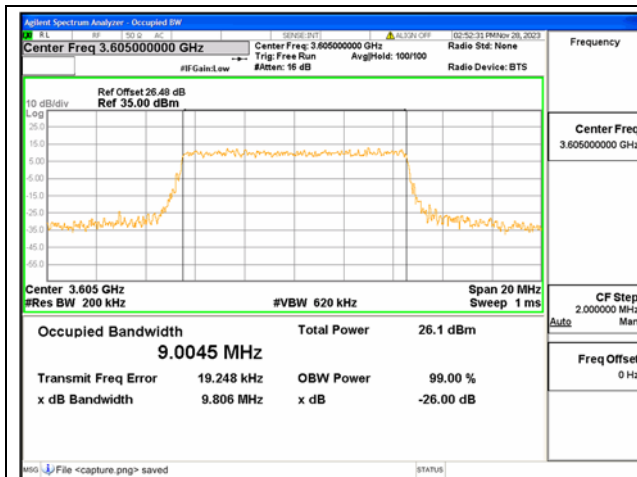
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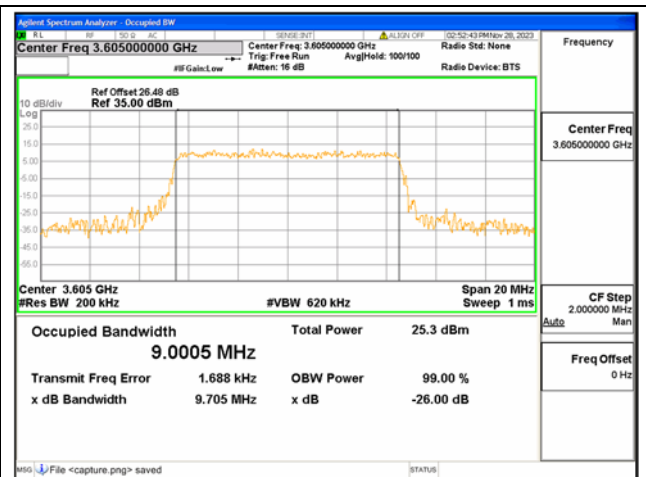
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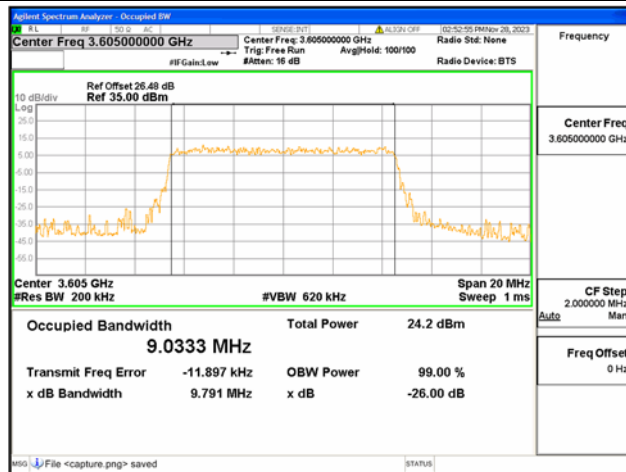
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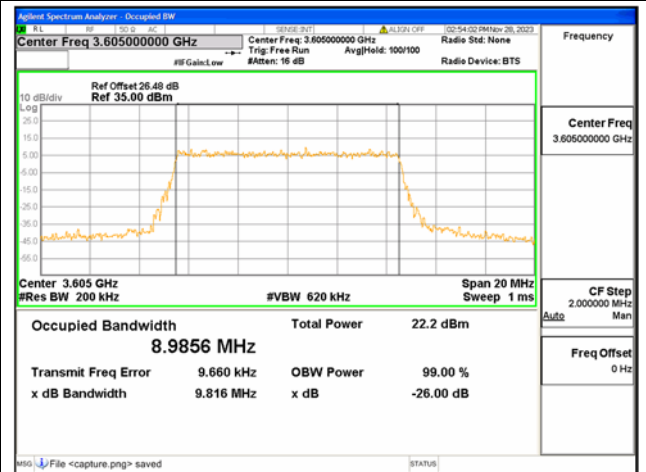
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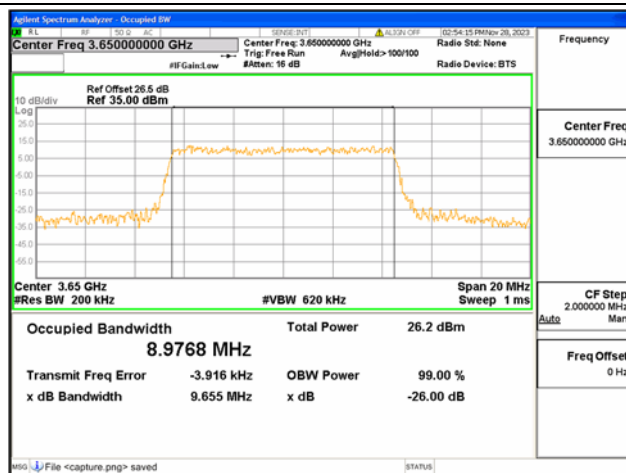
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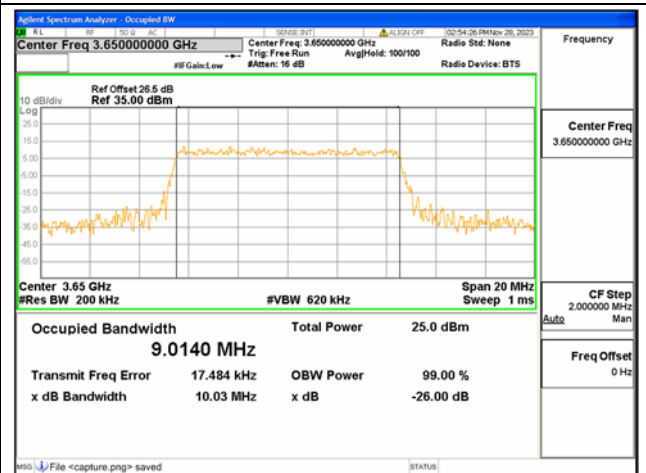
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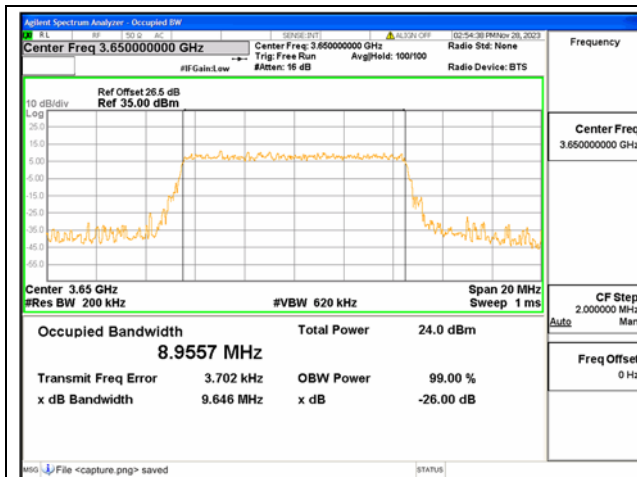
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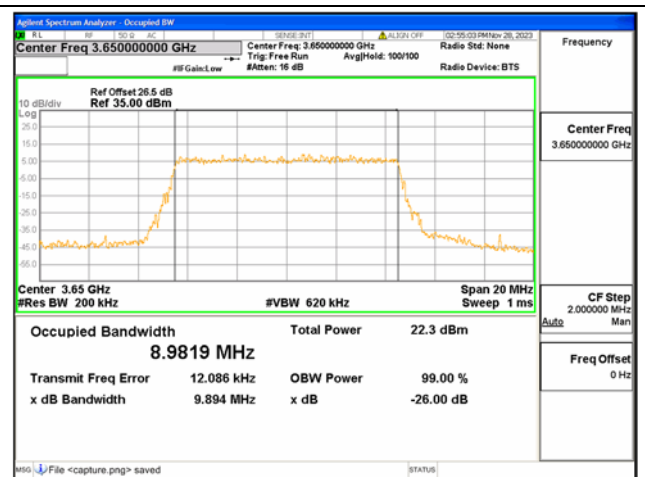
B43 / 10MHz / QPSK/ Mid CH



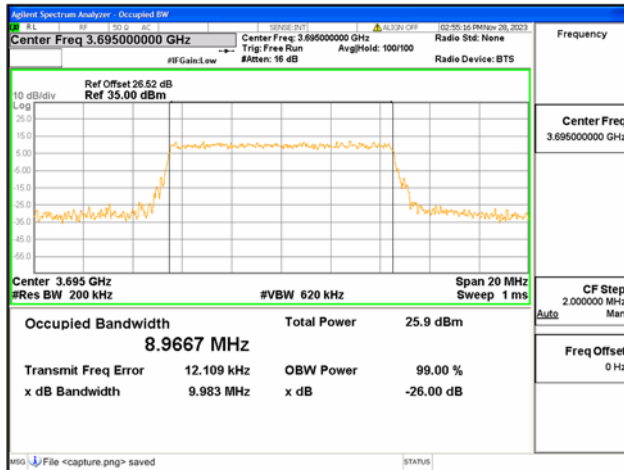
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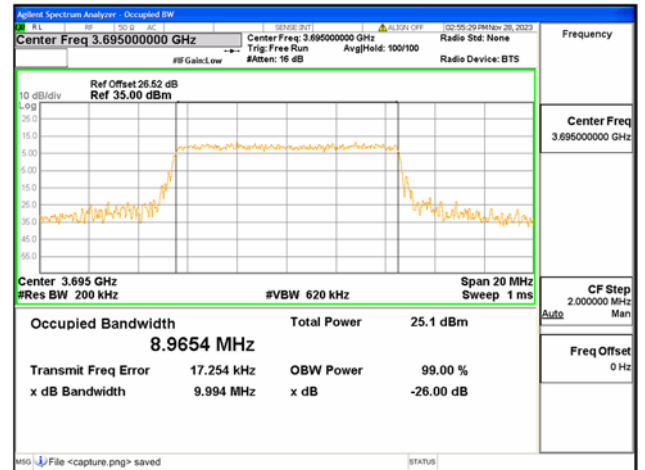
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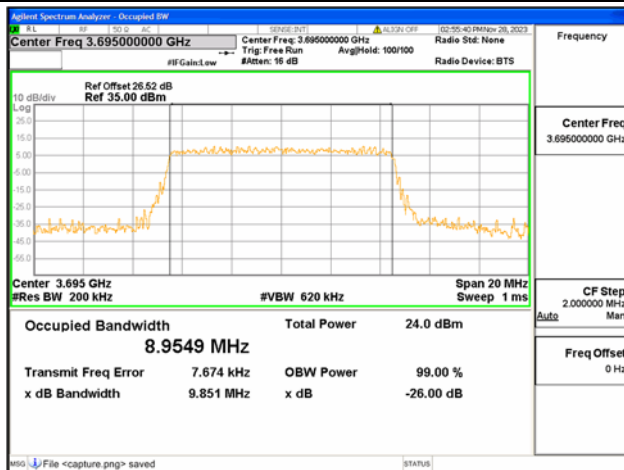
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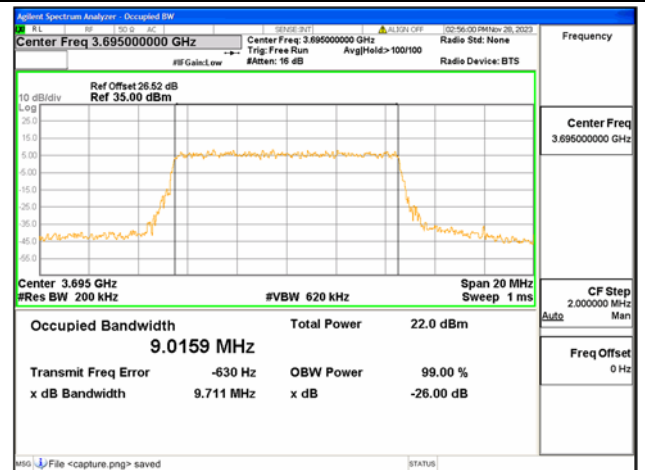
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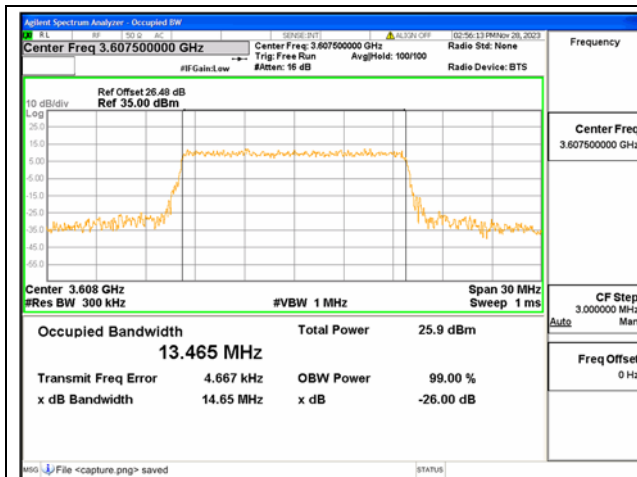
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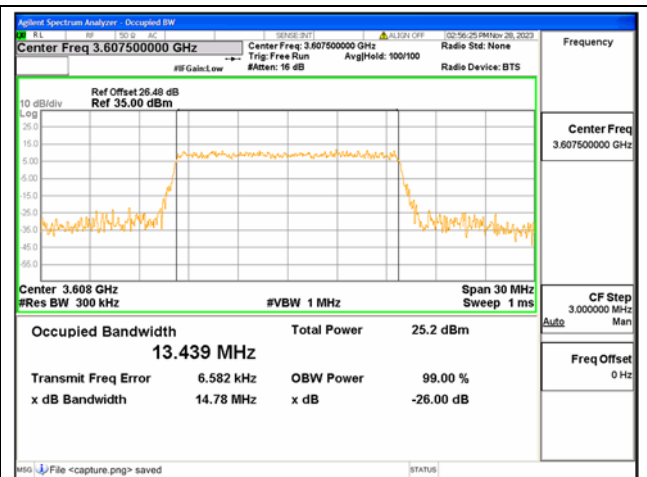
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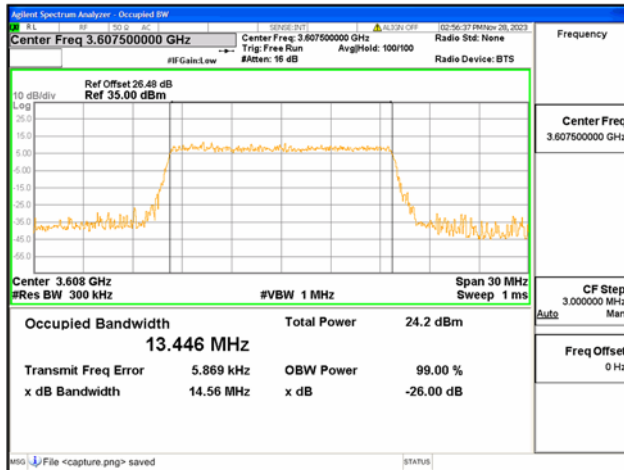
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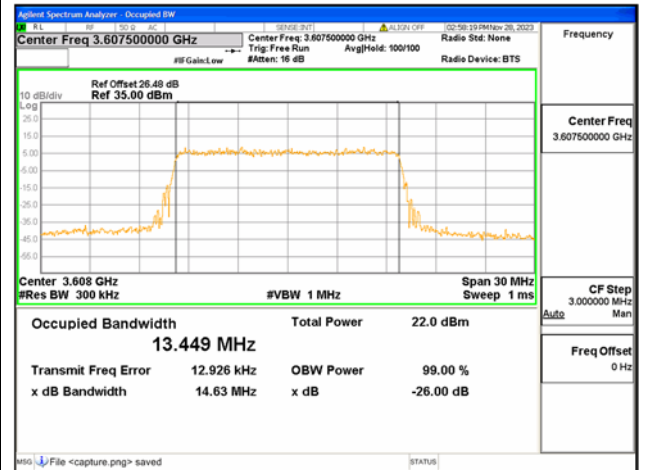
B43 / 15MHz / QPSK/ Low CH



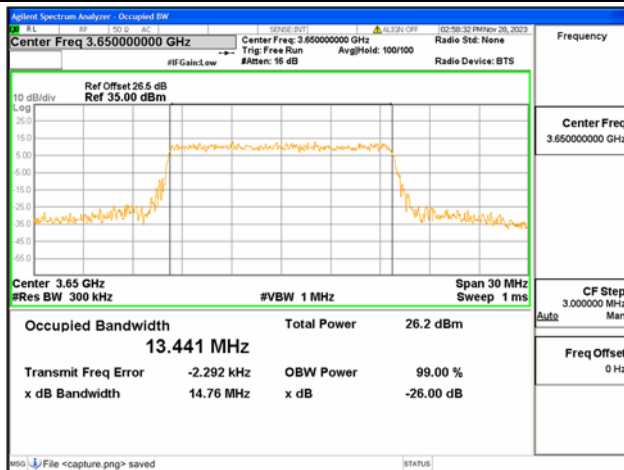
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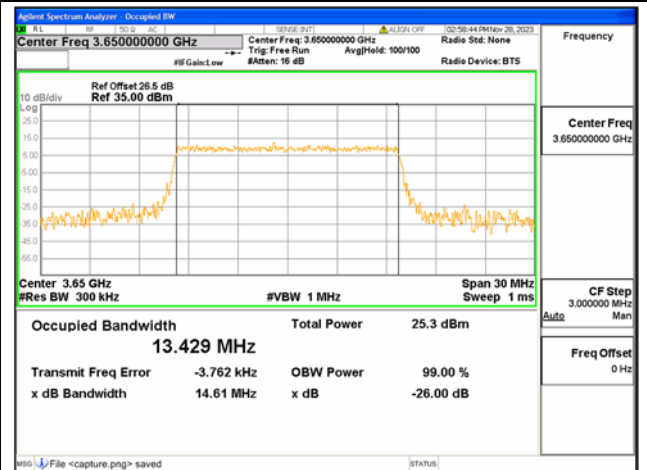
B43 / 15MHz / 64QAM/ Low CH



B43 / 15MHz / 256QAM/ Low CH



B43 / 15MHz / QPSK/ Mid CH



B43 / 15MHz / 16QAM/ Mid CH