ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 22 SUBPART H, PART 24 SUBPART E and PART 27 SUBPART B, C & SUBPART L and PART 90 R,S REQUIREMENT

OF

Applicant:	HP Inc. 1501 Page Mill Road Palo Alto, CA 94304 USA
Product Name:	Notebook Computer
Brand Name:	HP
Model No.:	HSN-I22C
Model Difference:	N/A
FCC ID:	B94HNI22CPDJP
Report Number:	T190328W01-RP
FCC Rule Part:	2, 22H & 24E & 27B, C & L & 90 R,S
Issue Date:	May 22, 2019
Date of Test:	Mar. 29, 2019 ~ Apr. 23, 2019
Date of EUT Received:	Mar. 29, 2019
Issued by	Compliance Certification Services Inc.Wugu Lab. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) service@ccsrf.com

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.26: 2015 and compliance standards.
The test results of this report relate only to the tested sample (EUT) identified in this report.
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By: _____
Kane Tseng / Engineer

Approved By: _____
Kevin Tsai / Deputy Manager

Testing Laboratory
1309

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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
T190328W01-RP	Rev.00	Initial creation of document	All	Apr. 29, 2019	Elle Chang
T190328W01-RP	Rev.01	Update report and measurement quipment	1,12,33,34, 37~94,322	May 16, 2019	Elle Chang
T190328W01-RP	Rev.02	Update LTE B5/12/13/17/26/90s table with ERP conducted power	9~11,54~78	May 22, 2019	Elle Chang

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook Computer	
Brand Name:	HP	
Model No.:	HSN-I22C	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 19.5Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-IB8U, Supplier: Simplo
	Adapter:	Model No.: TPN-CA17, Supplier: Chicony
IMEI:	359324081542790	

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

Operating Frequency (MHz)			
WCDMA / HSPA+ Band II	1852.4	-	1907.6
WCDMA / HSPA+ Band IV	1712.4	-	1752.6
WCDMA / HSPA+ Band V	826.4	-	846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)		
2	1.4	1850.7	-	1909.3
	3	1851.5	-	1908.5
	5	1852.5	-	1907.5
	10	1855.0	-	1905.0
	15	1857.5	-	1902.5
	20	1860.0	-	1900.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
4	1.4	1710.7	-	1754.3
	3	1711.5	-	1753.5
	5	1712.5	-	1752.5
	10	1715.0	-	1780.0
	15	1717.5	-	1747.5
	20	1720.0	-	1745.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
5	1.4	824.7	-	848.3
	3	825.5	-	847.5
	5	826.5	-	846.5
	10	829.0	-	844.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
7	5	2502.5	-	2567.5
	10	2505.0	-	2565.0
	15	2507.5	-	2562.5
	20	2510.0	-	2560.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
12	1.4	699.7	-	715.3
	3	700.5	-	714.5
	5	701.5	-	713.5
	10	704.0	-	711.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
13	5	779.5	-	784.5
	10	782		

LTE Band	BW (MHz)	Operation Frequency (MHz)		
17	5	706.5	-	713.5
	10	709.0	-	711.0

LTE Band	BW (MHz)	Operation Frequency (MHz)		
26	1.4	824.7	-	848.3
	3	825.5	-	847.5
	5	826.5	-	846.5
	10	829.0	-	844.0
	15	831.5	-	841.5

LTE Band	BW (MHz)	Operation Frequency (MHz)		
26 Part90	1.4	814.7	-	823.3
	3	815.5	-	822.5
	5	816.5	-	821.5
	10	819.0		

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LTE Band	BW (MHz)	Operation Frequency (MHz)
30	5	2307.5 - 2312.5
	10	2310.0

LTE Band	BW (MHz)	Operation Frequency (MHz)
38	5	2572.5 - 2617.5
	10	2575.0 - 2615.0
	15	2577.5 - 2612.5
	20	2580.0 - 2610.0

LTE Band	BW (MHz)	Operation Frequency (MHz)
41	5	2498.5 - 2687.5
	10	2501.0 - 2685.0
	15	2503.5 - 2682.5
	20	2506.0 - 2680.0

LTE Band	BW (MHz)	Operation Frequency (MHz)
66	1.4	1710.7 - 1779.3
	3	1711.5 - 1778.5
	5	1712.5 - 1777.5
	10	1715.0 - 1775.0
	15	1717.5 - 1772.5
	20	1720.0 - 1770.0

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Antenna Designation

Vendor	Type	Main / Aux		Modulation	Frequency (MHz)			Peak Antenna Gain (dBi)
Awan	PIFA	Main	6036B0232901 (ANP6Y-100277)	WCDMA / HSPA Band II	1852.4	~	1907.6	-0.87
				WCDMA / HSPA Band IV	1712.4	~	1752.6	-0.9
				WCDMA / HSPA Band V	826.4	~	846.6	-1.73
				LTE Band 2	1850	~	1910	-0.87
				LTE Band 4	1710	~	1755	-0.66
				LTE Band 5	824	~	849	-1.73
				LTE Band 7	2503	~	2560	-0.53
				LTE Band 12	699	~	716	-1.14
				LTE Band 13	777	~	787	-0.23
				LTE Band 17	704	~	716	-1.14
				LTE Band 26	824	~	849	-1.77
				LTE Band 26 Part 90S	814.7	~	823.3	-1.79
				LTE Band 30	2305	~	2315	1.92
				LTE Band 38	2573	~	2610	0.03
				LTE Band 41	2496	~	2690	0.03
				LTE Band 66	1710	~	1780	-0.66
	PIFA	Aux	6036B0232801 (ANP6Y-100278)	WCDMA / HSPA Band II	1852.4	~	1907.6	0.76
				WCDMA / HSPA Band IV	1712.4	~	1752.6	N/A
				WCDMA / HSPA Band V	826.4	~	846.6	N/A
				LTE Band 2	1850	~	1910	0.76
				LTE Band 4	1710	~	1755	N/A
				LTE Band 5	824	~	849	N/A
				LTE Band 7	2503	~	2560	N/A
				LTE Band 12	699	~	716	N/A
				LTE Band 13	777	~	787	N/A
				LTE Band 17	704	~	716	N/A
				LTE Band 26	824	~	849	N/A
				LTE Band 26 Part 90S	814.7	~	823.3	-2.6
				LTE Band 30	2305	~	2315	1.23
				LTE Band 38	2573	~	2610	-0.33
				LTE Band 41	2496	~	2690	-0.33
				LTE Band 66	1710	~	1780	N/A

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Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
HONG-BO	PIFA	Main	6036B0233801 (260-27270)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.79
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.27
				WCDMA / HSPA Band V	826.4 ~ 846.6	-2.06
				LTE Band 2	1850 ~ 1910	0.85
				LTE Band 4	1710 ~ 1755	-0.27
				LTE Band 5	824 ~ 849	-2.06
				LTE Band 7	2503 ~ 2560	1.25
				LTE Band 12	699 ~ 716	-0.63
				LTE Band 13	777 ~ 787	0.01
				LTE Band 17	704 ~ 716	-0.97
				LTE Band 26	824 ~ 849	-2.06
				LTE Band 26 Part90S	814.7 ~ 823.3	-2.06
				LTE Band 30	2305 ~ 2315	3.37
				LTE Band 38	2570 ~ 2620	2.96
				LTE Band 41	2496 ~ 2690	2.96
				LTE Band 66	1710 ~ 1780	-0.27
	PIFA	Aux	6036B0233901 (260-27271)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.97
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.97
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 17	704 ~ 716	N/A
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 Part90S	814.7 ~ 823.3	-5.57
				LTE Band 30	2305 ~ 2315	-1.28
				LTE Band 38	2570 ~ 2620	-4.32
				LTE Band 41	2496 ~ 2690	-0.95
				LTE Band 66	1710 ~ 1780	N/A

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1.3 Type of Emission & Max ERP/EIRP Power Measurement Result:

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	24.53	EIRP	0.284	4M07F9W
HSDPA Band II	24.50	EIRP	0.282	4M06F9W
HSUPA Band II	24.46	EIRP	0.279	4M07F9W
WCDMA Band IV	23.04	EIRP	0.201	4M06F9W
HSDPA Band IV	23.01	EIRP	0.200	4M07F9W
HSUPA Band IV	23.02	EIRP	0.200	4M06F9W
WCDMA Band V	21.82	ERP	0.152	4M07F9W
HSDPA Band V	21.79	ERP	0.151	4M08F9W
HSUPA Band V	21.76	ERP	0.150	4M07F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	23.88	EIRP	0.244	1M12G7D
	1.4	16QAM	23.73	EIRP	0.236	1M12W7D
	3	QPSK	23.48	EIRP	0.223	2M74G7D
	3	16QAM	23.31	EIRP	0.214	2M73W7D
	5	QPSK	23.59	EIRP	0.229	4M53G7D
	5	16QAM	23.44	EIRP	0.221	4M53W7D
	10	QPSK	23.73	EIRP	0.236	9M09G7D
	10	16QAM	23.48	EIRP	0.223	9M11W7D
	15	QPSK	23.84	EIRP	0.242	13M5G7D
	15	16QAM	23.67	EIRP	0.233	13M6W7D
	20	QPSK	23.90	EIRP	0.245	18M1G7D
	20	16QAM	23.70	EIRP	0.234	18M0W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	23.51	EIRP	0.224	1M13G7D
	1.4	16QAM	22.72	EIRP	0.187	1M12W7D
	3	QPSK	23.20	EIRP	0.209	2M74G7D
	3	16QAM	22.19	EIRP	0.166	2M73W7D
	5	QPSK	23.33	EIRP	0.215	4M54G7D
	5	16QAM	22.32	EIRP	0.171	4M52W7D
	10	QPSK	23.37	EIRP	0.217	9M09G7D
	10	16QAM	22.40	EIRP	0.174	9M06W7D
	15	QPSK	23.41	EIRP	0.219	13M5G7D
	15	16QAM	22.53	EIRP	0.179	13M5W7D
	20	QPSK	23.52	EIRP	0.225	18M0G7D
	20	16QAM	22.64	EIRP	0.184	18M1W7D

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	20.09	ERP	0.102	1M12G7D
	1.4	16QAM	19.46	ERP	0.088	1M12W7D
	3	QPSK	19.94	ERP	0.099	2M74G7D
	3	16QAM	19.31	ERP	0.085	2M73W7D
	5	QPSK	20.08	ERP	0.102	4M54G7D
	5	16QAM	19.34	ERP	0.086	4M52W7D
	10	QPSK	20.11	ERP	0.103	9M10G7D
	10	16QAM	19.44	ERP	0.088	9M09W7D
13	5	QPSK	21.29	ERP	0.135	4M52G7D
	5	16QAM	20.71	ERP	0.118	4M53W7D
	10	QPSK	21.29	ERP	0.135	9M03G7D
	10	16QAM	20.65	ERP	0.116	9M04W7D
7	5	QPSK	24.57	EIRP	0.286	4M52G7D
	5	16QAM	23.70	EIRP	0.234	4M53W7D
	10	QPSK	24.50	EIRP	0.282	9M09G7D
	10	16QAM	23.79	EIRP	0.239	9M08W7D
	15	QPSK	24.66	EIRP	0.292	13M6G7D
	15	16QAM	23.96	EIRP	0.249	13M5W7D
	20	QPSK	24.75	EIRP	0.299	18M0G7D
	20	16QAM	24.07	EIRP	0.255	18M0W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	20.05	ERP	0.101	1M12G7D
	1.4	16QAM	19.37	ERP	0.086	1M13W7D
	3	QPSK	19.77	ERP	0.095	2M73G7D
	3	16QAM	19.08	ERP	0.081	2M73W7D
	5	QPSK	19.89	ERP	0.097	4M53G7D
	5	16QAM	19.20	ERP	0.083	4M52W7D
	10	QPSK	20.06	ERP	0.101	9M13G7D
	10	16QAM	19.33	ERP	0.086	9M14W7D
17	5	QPSK	19.79	ERP	0.095	4M53G7D
	5	16QAM	19.22	ERP	0.084	4M53W7D
	10	QPSK	19.96	ERP	0.099	9M07G7D
	10	16QAM	19.28	ERP	0.085	9M78W7D
26	1.4	QPSK	19.24	ERP	0.084	1M11G7D
	1.4	16QAM	18.59	ERP	0.072	1M12W7D
	3	QPSK	18.86	ERP	0.077	2M73G7D
	3	16QAM	18.74	ERP	0.075	2M74W7D
	5	QPSK	19.03	ERP	0.080	4M53G7D
	5	16QAM	18.36	ERP	0.069	4M54W7D
	10	QPSK	19.14	ERP	0.082	9M11G7D
	10	16QAM	19.05	ERP	0.080	9M12W7D
	15	QPSK	19.26	ERP	0.084	13M6G7D
	15	16QAM	18.56	ERP	0.072	13M6W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26 Part90	1.4	QPSK	19.16	ERP	0.082	1M11G7D
	1.4	16QAM	18.55	ERP	0.072	1M11W7D
	3	QPSK	18.85	ERP	0.077	2M72G7D
	3	16QAM	17.95	ERP	0.062	2M72W7D
	5	QPSK	18.93	ERP	0.078	4M54G7D
	5	16QAM	18.15	ERP	0.065	4M53W7D
	10	QPSK	19.01	ERP	0.080	9M14G7D
	10	16QAM	18.11	ERP	0.065	9M12W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	26.57	EIRP	0.454	4M53G7D
	5	16QAM	25.38	EIRP	0.345	4M54W7D
	10	QPSK	26.58	EIRP	0.455	9M04G7D
	10	16QAM	25.38	EIRP	0.345	9M04W7D
	15	QPSK	26.51	EIRP	0.448	13M6G7D
	15	16QAM	25.38	EIRP	0.345	13M6W7D
	20	QPSK	26.64	EIRP	0.461	18M0G7D
	20	16QAM	25.50	EIRP	0.355	18M0W7D

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	26.28	EIRP	0.425	4M54G7D
	5	16QAM	25.21	EIRP	0.332	4M55W7D
	10	QPSK	26.11	EIRP	0.408	9M13G7D
	10	16QAM	25.10	EIRP	0.324	9M08W7D
	15	QPSK	26.20	EIRP	0.417	13M6G7D
	15	16QAM	25.23	EIRP	0.333	13M6W7D
	20	QPSK	26.32	EIRP	0.429	18M0G7D
	20	16QAM	25.39	EIRP	0.346	18M0W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emis-sion	
30	5	QPSK	23.11	EIRP	0.205	4M53G7D
	5	16QAM	22.32	EIRP	0.171	4M53W7D
	10	QPSK	23.32	EIRP	0.215	9M06G7D
	10	16QAM	22.36	EIRP	0.172	9M05W7D

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	23.42	EIRP	0.220	1M12G7D
	1.4	16QAM	22.70	EIRP	0.186	1M12W7D
	3	QPSK	23.05	EIRP	0.202	2M73G7D
	3	16QAM	22.21	EIRP	0.166	2M73W7D
	5	QPSK	23.26	EIRP	0.212	4M52G7D
	5	16QAM	22.31	EIRP	0.170	4M52W7D
	10	QPSK	23.30	EIRP	0.214	9M10G7D
	10	16QAM	22.43	EIRP	0.175	9M10W7D
	15	QPSK	23.34	EIRP	0.216	13M5G7D
	15	16QAM	22.51	EIRP	0.178	13M5W7D
	20	QPSK	23.44	EIRP	0.221	18M1G7D
	20	16QAM	22.63	EIRP	0.183	18M0W7D

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1.4 Test Methodology of Applied Standards

CC 47 CFR Part 2, 22, 24, 27, Part 90 R,S.

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB941225 D01 SAR test for 3G devices v03r01 (SAR Measurement Procedures for 3G Devices, WCDMA / HSPA) was used for EUT and Base station setting.

TS 151 010-1 is used to set, and measure the output power.

Note: All test items have been performed and record as per the above standards.

1.5 Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,

Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.6 Special Accessories

No special accessories were used during testing.

1.7 Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.1

2.2 EUT Exercise

The EUT (Transmitter) was operated in the continuous transmission mode employed with the simulator of the Base Station that fixates at test default channels to fix the Tx frequency which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 Conducted Measurement at Antenna Port

According to measurement procured ANSI C63.26-2015, the EUT is placed on a turn table which is 0.8 m above ground plane. A low loss of RF cable was used to connect the antenna port of EUT to measurement equipment.

2.3.2 Radiated Emissions (ERP/EIRP)

According to measurement procured ANSI C63.26-2015, The EUT is a placed on as turn table, for emission measurements below 1 GHz is 0.8 m above ground plane, for emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both Horizontal and Vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna according to the requirements in Section 8 and 13.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

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Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor.

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.5	10	13.5
High Band (Above 1 GHz)	3.9	10	13.9

2.5 Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.7	666
WCDMA B4		690
WCDMA B5		695
LTE Band 2		781
LTE Band 4		831
LTE Band 5		609
LTE Band 7		664
LTE Band 12		670
LTE Band 13		631
LTE Band 17		637
LTE Band 26		700
LTE Band 26 (Part 90S)		649
LTE Band 30		770
LTE Band 38		816
LTE Band 41		807
LTE Band 66		765

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2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Fixed Channel-Conducted)

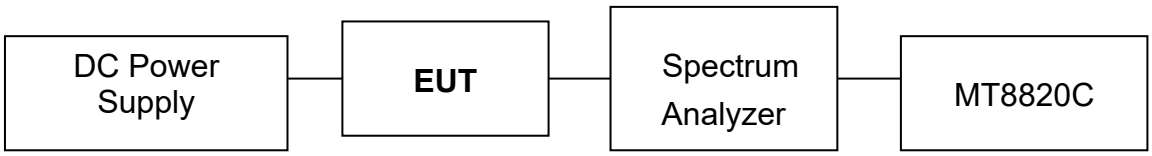
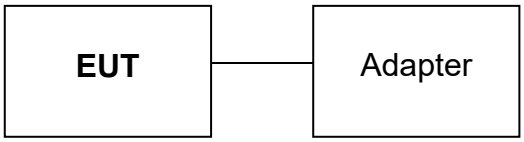


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

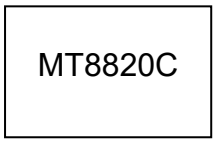


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6201107337	Shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	Description Of Test	Result
§2.1046(a)	RF Power Output	Compliant
§2.1046(a) §22.913(a)(5) §24.232(c) §27.50(a)(3) §27.50(c)(10) §27.50(d)(4) §90.542 §90.635	ERP/ EIRP measurement	Compliant
§2.1049(h)	99% & 26dB Occuupied Bandwidth	Compliant
§2.1051 §22.917(a) §24.238(a) §27.53(g) §27.50(c)(5) §27.53(h) §27.53(m)(4)(6) §90.691 §90.543	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2) §90.543	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50((B)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213 §90.539	Frequency Stability	Compliant

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, X(E1)Y(E2)Z(H) axis and antenna ports. The worst case was found as listed below. Following channel(s) was (were) selected for the final test as listed below:

BAND	RADIATED EMISSION
WCDMA/HSPA Band II	H-plan
WCDMA/HSPA Band IV	H-plan
WCDMA/HSPA Band V	H-plan
LTE Band 2	H-plan
LTE Band 4	H-plan
LTE Band 5	H-plan
LTE Band 7	H-plan
LTE Band 12	H-plan
LTE Band 13	H-plan
LTE Band 17	H-plan
LTE Band 26	H-plan
LTE Band 26 (Part 90S)	H-plan
LTE Band 30	H-plan
LTE Bnad 38	H-plan
LTE Band 41	H-plan
LTE Band 66	H-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9538 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	9262 to 9538 1312 to 1513 4132 to 4233	9400 1413 4183	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	9262 to 9538 1312 to 1513 4132 to 4233	9262, 9400, 9538 1312, 1413, 1513 4132, 4183, 4233	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	9262 to 9538 1312 to 1513 4132 to 4233	9262, 9400, 9538 1312, 1413, 1513 4132, 4183, 4233	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	9262 to 9538 1312 to 1513 4132 to 4233	9262, 9400, 9538 1312, 1413, 1513 4132, 4183, 4233	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
CONDCUDETED EMISSION	9262 to 9538 1312 to 1513 4132 to 4233	9262, 9400, 9538 1312, 1413, 1513 4132, 4183, 4233	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
RADIATED EMISSION	9262 to 9538 1312 to 1513 4132 to 4233	9262, 9400, 9538 1312, 1413, 1513 4132, 4183, 4233	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V

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LTE Band 2 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK, 16QAM,	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM,	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM,	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM,	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM,	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	16QAM,	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	16QAM,	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	16QAM,	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	16QAM,	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	16QAM,	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	16QAM,	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 1,0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STA-BILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM,	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM,	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM,	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM,	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM,	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	16QAM,	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	16QAM,	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	16QAM,	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	16QAM,	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	16QAM,	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	16QAM,	Full RB
BAND EDGE	19957 to 19393	19957, 19393	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	19965 to 22385	19965, 22385	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	19975 to 20375	19975, 20375	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20000 to 20350	20000, 20350	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	20025 to 20325	20025, 20325	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	20050 to 20300	20050, 20300	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK,	1 RB, 0 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK,	1 RB, 0 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK,	1 RB, 0 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK,	1 RB, 0 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM,	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM,	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM,	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	16QAM,	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	16QAM,	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	16QAM,	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	16QAM,	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM,	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM,	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM,	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	16QAM,	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	16QAM,	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	16QAM,	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	16QAM,	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILA-BLE CHANNEL	TESTED CHANNEL	CHANNEL BAND-WIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM,	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM,	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM,	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AV-ERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	16QAM,	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	16QAM,	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	16QAM,	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	16QAM,	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 5 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM,	Full RB
	23230	23230	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AV-ERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	16QAM	Full RB
	23230	23230	10MHz	16QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 24 RB Offest

LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM,	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AV-ERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	16QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	16QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB/ 49 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
FREQUENCY STA-BILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM,	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM,	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM,	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM,	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDETED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMIS-SION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,	1 RB, 74 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STA-BILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM,	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM,	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM,	Full RB
	26740	26740	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 24 RB Offest

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LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM,	Full RB
	27710	27710	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AV-ERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDETED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BAND-WIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVER-AGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 99 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM,	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM,	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM,	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	16QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	16QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	16QAM	Full RB
CONDCUDETED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMIS-SION	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	125 RB, 12 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM,	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM,	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM,	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM,	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM,	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM,	Full RB
PEAK TO AVER-AGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	16QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	16QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	16QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	16QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	16QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	16QAM	Full RB

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BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUDETED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest

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5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Output Power	+/- 1.15 dB
99% Occupied Bandwidth	+/- 0.89%
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.89 dB
Frequency Stability vs. Temperature	+/- 2.64 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.
3. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6. MAXMUM OUTPUT POWER

6.1 Standard Applicable

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals.

ERP/EIRP LIMIT

According to FCC §2.1046

FCC 22.913(a) Mobile station is limited to 7W ERP.

FCC 24.232(b) Mobile and portable stations are limited to 2 W EIRP.

FCC 27.50(a)(3) Mobile and portable stations (hand-held devices) are limited to 250 mW/ 5MHz EIRP.

FCC 27.50(c)(10) Portable stations (hand-held devices) are limited to 3 watts ERP.

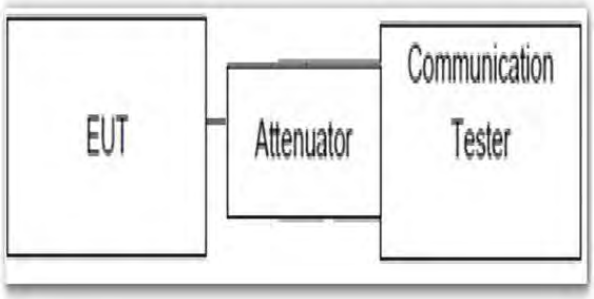
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

FCC 27, 50(h)(2) Mobile and other user stations. Mobile stations are limited to 2 W EIRP

FCC 90.635(b) Mobile station is limited to 100W ERP

FCC 90.542(a)(7) Portable stations (hand-held devices) transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 3 watts ERP.

6.2 Test Set-up



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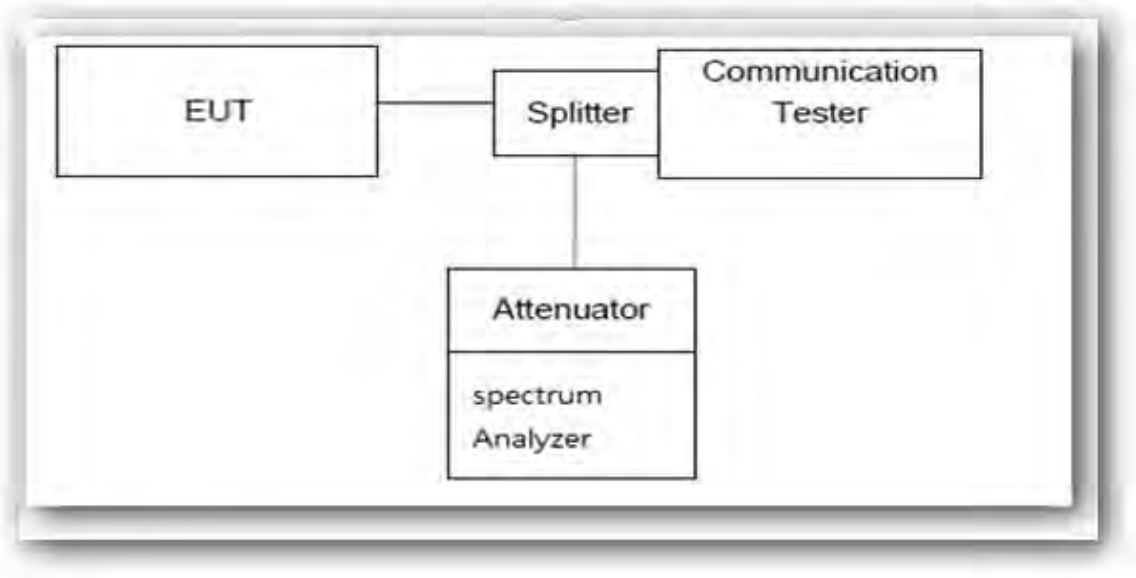
For Band 30



Note: *Measurement setup for testing on Antenna connector*

6.3 Measurement Procedure

The transmitter output was connected to a calibrated attenuator, the other end of which was connected to a power meter. Transmitter output was read off the power meter in dBm. The power output at the transmitter antenna port was determined by adding the value of the attenuator to the power meter reading. TS 151 010-1 is reference to conduct the test measurement of output power.

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (WCDMA/HSPA) was used for EUT and Base station setting. RMC 12.2kps is used for this testing, and KDB 971168 D01 Power Meas License Digital System as the supplemental test methodology to adjust the proper setting obtaining the measurement results

All LTE bands conducted average power is obtained from the simulator telecommunication test set.

The following tests were conducted according to the test requirements outlined in section 6.2 of the 3GPP.

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TEST PROCEDURE:
ANSI C63.26:2015
KDB 971168 Section 5.6

ERP/EIRP = PMeas + GT-LC

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);
PMeas = measured transmitter output power or PSD, in dBm or dBW;
GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2
For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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6.4 Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	PASTERNACK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

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6.5 Measurement Result

RF Conducted Output Power

WCDMA MODE:

The following tests were completed according to the test requirements outlined in section 5.2 of the 3GPP TS34.121-1 specification. The EUT supports power Class 3, which has a nominal maximum output power of 24 dBm (+1.7/-3.7). RMC 12.2kps is used for this testing.

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.37	0.97	24.34	33.00	-8.66
	1880.0	9400	23.56	0.97	24.53	33.00	-8.47
	1907.6	9538	23.12	0.97	24.09	33.00	-8.91
HSDPA	1852.4	9262	23.21	0.97	24.18	33.00	-8.82
	1880.0	9400	23.53	0.97	24.50	33.00	-8.50
	1907.6	9538	23.09	0.97	24.06	33.00	-8.94
HSUPA	1852.4	9262	23.26	0.97	24.23	33.00	-8.77
	1880.0	9400	23.49	0.97	24.46	33.00	-8.54
	1907.6	9538	23.09	0.97	24.06	33.00	-8.94

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.09	-0.27	22.82	30.00	-7.18
	1732.6	1413	23.12	-0.27	22.85	30.00	-7.15
	1752.6	1513	23.31	-0.27	23.04	30.00	-6.96
HSDPA	1712.4	1312	23.04	-0.27	22.77	30.00	-7.23
	1732.6	1413	23.03	-0.27	22.76	30.00	-7.24
	1752.6	1513	23.28	-0.27	23.01	30.00	-6.99
HSUPA	1712.4	1312	23.06	-0.27	22.79	30.00	-7.21
	1732.6	1413	23.09	-0.27	22.82	30.00	-7.18
	1752.6	1513	23.29	-0.27	23.02	30.00	-6.98

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.55	-1.73	21.82	38.50	-16.68
	836.6	4183	23.38	-1.73	21.65	38.50	-16.85
	846.6	4233	23.43	-1.73	21.70	38.50	-16.80
HSDPA	826.4	4132	23.52	-1.73	21.79	38.50	-16.71
	836.6	4183	23.34	-1.73	21.61	38.50	-16.89
	846.6	4233	23.42	-1.73	21.69	38.50	-16.81
HSUPA	826.4	4132	23.49	-1.73	21.76	38.50	-16.74
	836.6	4183	23.35	-1.73	21.62	38.50	-16.88
	846.6	4233	23.42	-1.73	21.69	38.50	-16.81

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HSDPA Release 6 MODE:

The following 4 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C10.1.4 & C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing.

HSDPA SUB-TEST Setting

Table C.10.1.4: β values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	β_c	β_d	β_d *(SF)*	β_c/β_d	β_{HS} *(Note1, Note 2)*	CM (dB) *(Note 3)*	MPR (dB) *(Note 3)*	RMC (Kbps)
1	2/15	15/15	64	2/15	4/15	0.0	0.0	12.2
2	12/15 *(Note 4)*	15/15 *(Note 4)*	64	12/15 *(Note 4)*	24/15	1.0	0.0	12.2
3	15/15	8/15	64	15/8	30/15	1.5	0.5	12.2
4	15/15	4/15	64	15/4	30/15	1.5	0.5	12.2

Note: The recommended HSDPA MPRs are implemented as per following sub-tests.

HSPA (HSDPA & HSUPA) Release 6 MODE

The following 5 Sub-Tests were completed according to the test requirements outlined in section 5.2A of the 3GPP TS34.121-1 specification. All TX RMS power requirements for Power Class 3 were met according to table 5.2AA.5 and 5.2B.5 All UE channels and power ratio's are set according to table C11.1.3 in the 3GPP TS34.121-1. RMC 12.2kps is used for this testing

HSPA SUB-TEST Setting

Table C.11.1.3: β values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (Codes)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed}1$: 47/15 $\beta_{ed}2$: 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

Note: The recommended HSUPA MPRs are implemented as per following sub-tests.

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Results:

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	23.21	23.53	23.09
	2	22.26	22.59	22.06
	3	21.84	22.08	21.61
	4	21.59	21.83	21.35

Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	23.04	23.03	23.28
	2	22.03	22.15	22.36
	3	21.54	21.65	21.87
	4	21.29	21.43	21.58

Mode	Sub test	Avg. Power (dBm) Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.52	23.34	23.42
	2	22.55	22.88	22.51
	3	22.04	22.43	22.02
	4	21.79	22.18	21.76

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Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	23.26	23.49	23.09
	2	21.75	21.96	21.55
	3	22.28	22.49	22.08
	4	21.73	21.94	21.51
	5	23.26	23.51	23.06

Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	23.06	23.09	23.29
	2	21.55	21.61	21.76
	3	22.56	22.61	22.79
	4	21.57	21.60	21.74
	5	23.07	23.09	23.28

Mode	Sub test	Avg. Power (dBm) Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	23.49	23.35	23.42
	2	21.99	22.41	21.97
	3	22.49	22.88	22.41
	4	21.95	22.40	21.95
	5	23.47	23.35	23.37

WCDMA/HSDPA/HSUPA band II, IV, V

The EUT output power was controlled by simulator. Set Communication Tester MT8820C function key “UE Power Control” and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm. Then record the read (see page 15 for measurement data). The min. power was measures by a function key “minimum power” then record the read. It is -52.3dBm. The power variation can be 0.1dB step by setting.

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LTE Result:

Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.64	23.61	33	-9.39
				1	5	22.62	23.59	33	-9.41
				3	2	22.55	23.52	33	-9.48
				6	0	22.06	23.03	33	-9.97
	18900	1880	QPSK	1	0	22.91	23.88	33	-9.12
				1	5	22.91	23.88	33	-9.12
				3	2	22.87	23.84	33	-9.16
				6	0	22.37	23.34	33	-9.66
	19193	1909.3	QPSK	1	0	22.19	23.16	33	-9.84
				1	5	22.18	23.15	33	-9.85
				3	2	22.09	23.06	33	-9.94
				6	0	21.55	22.52	33	-10.48
	18607	1850.7	16QAM	1	0	22.22	23.19	33	-9.81
				1	5	22.26	23.23	33	-9.77
				3	2	22.12	23.09	33	-9.91
				6	0	21.11	22.08	33	-10.92
	18900	1880	16QAM	1	0	22.62	23.59	33	-9.41
				1	5	22.76	23.73	33	-9.27
				3	2	22.46	23.43	33	-9.57
				6	0	21.43	22.40	33	-10.6
	19193	1909.3	16QAM	1	0	21.83	22.80	33	-10.2
				1	5	21.78	22.75	33	-10.25
				3	2	21.54	22.51	33	-10.49
				6	0	20.59	21.56	33	-11.44

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.09	23.06	33	-9.94
				1	14	22.51	23.48	33	-9.52
				8	4	21.69	22.66	33	-10.34
				15	0	21.83	22.80	33	-10.2
	18900	1880	QPSK	1	0	22.49	23.46	33	-9.54
				1	14	22.08	23.05	33	-9.95
				8	4	22.12	23.09	33	-9.91
				15	0	22.02	22.99	33	-10.01
	19185	1908.5	QPSK	1	0	22.06	23.03	33	-9.97
				1	14	22.00	22.97	33	-10.03
				8	4	21.59	22.56	33	-10.44
				15	0	22.02	22.99	33	-10.01
	18615	1851.5	16QAM	1	0	21.92	22.89	33	-10.11
				1	14	22.11	23.08	33	-9.92
				8	4	20.63	21.60	33	-11.4
				15	0	20.70	21.67	33	-11.33
	18900	1880	16QAM	1	0	22.34	23.31	33	-9.69
				1	14	21.93	22.90	33	-10.1
				8	4	20.82	21.79	33	-11.21
				15	0	21.08	22.05	33	-10.95
	19185	1908.5	16QAM	1	0	21.80	22.77	33	-10.23
				1	14	21.61	22.58	33	-10.42
				8	4	20.56	21.53	33	-11.47
				15	0	20.82	21.79	33	-11.21

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.22	23.19	33	-9.81
				1	24	22.62	23.59	33	-9.41
				12	6	21.87	22.84	33	-10.16
				25	0	21.95	22.92	33	-10.08
	18900	1880	QPSK	1	0	22.60	23.57	33	-9.43
				1	24	22.10	23.07	33	-9.93
				12	6	22.14	23.11	33	-9.89
				25	0	22.17	23.14	33	-9.86
	19175	1907.5	QPSK	1	0	22.19	23.16	33	-9.84
				1	24	22.12	23.09	33	-9.91
				12	6	21.75	22.72	33	-10.28
				25	0	22.04	23.01	33	-9.99
	18625	1852.5	16QAM	1	0	22.12	23.09	33	-9.91
				1	24	22.24	23.21	33	-9.79
				12	6	20.81	21.78	33	-11.22
				25	0	20.86	21.83	33	-11.17
	18900	1880	16QAM	1	0	22.47	23.44	33	-9.56
				1	24	22.14	23.11	33	-9.89
				12	6	20.92	21.89	33	-11.11
				25	0	21.17	22.14	33	-10.86
	19175	1907.5	16QAM	1	0	21.87	22.84	33	-10.16
				1	24	21.78	22.75	33	-10.25
				12	6	20.73	21.70	33	-11.3
				25	0	20.95	21.92	33	-11.08

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.42	23.39	33	-9.61
				1	49	22.71	23.68	33	-9.32
				25	12	21.90	22.87	33	-10.13
				50	0	22.09	23.06	33	-9.94
	18900	1880	QPSK	1	0	22.76	23.73	33	-9.27
				1	49	22.27	23.24	33	-9.76
				25	12	22.26	23.23	33	-9.77
				50	0	22.21	23.18	33	-9.82
	19150	1905	QPSK	1	0	22.31	23.28	33	-9.72
				1	49	22.17	23.14	33	-9.86
				25	12	21.88	22.85	33	-10.15
				50	0	22.15	23.12	33	-9.88
	18650	1855	16QAM	1	0	22.32	23.29	33	-9.71
				1	49	22.42	23.39	33	-9.61
				25	12	21.00	21.97	33	-11.03
				50	0	20.98	21.95	33	-11.05
	18900	1880	16QAM	1	0	22.51	23.48	33	-9.52
				1	49	22.23	23.20	33	-9.8
				25	12	21.04	22.01	33	-10.99
				50	0	21.37	22.34	33	-10.66
	19150	1905	16QAM	1	0	22.03	23.00	33	-10
				1	49	21.90	22.87	33	-10.13
				25	12	20.90	21.87	33	-11.13
				50	0	21.12	22.09	33	-10.91

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.59	23.56	33	-9.44
				1	74	22.75	23.72	33	-9.28
				36	18	22.10	23.07	33	-9.93
				75	0	22.21	23.18	33	-9.82
	18900	1880	QPSK	1	0	22.87	23.84	33	-9.16
				1	74	22.47	23.44	33	-9.56
				36	18	22.35	23.32	33	-9.68
				75	0	22.26	23.23	33	-9.77
	19125	1902.5	QPSK	1	0	22.37	23.34	33	-9.66
				1	74	22.10	23.07	33	-9.93
				36	18	22.03	23.00	33	-10
				75	0	22.25	23.22	33	-9.78
	18675	1857.5	16QAM	1	0	22.39	23.36	33	-9.64
				1	74	22.63	23.60	33	-9.4
				36	18	21.04	22.01	33	-10.99
				75	0	21.17	22.14	33	-10.86
	18900	1880	16QAM	1	0	22.70	23.67	33	-9.33
				1	74	22.26	23.23	33	-9.77
				36	18	21.19	22.16	33	-10.84
				75	0	21.43	22.40	33	-10.6
	19125	1902.5	16QAM	1	0	22.20	23.17	33	-9.83
				1	74	21.93	22.90	33	-10.1
				36	18	21.04	22.01	33	-10.99
				75	0	21.20	22.17	33	-10.83

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.93	23.90	33	-9.1
				1	99	22.69	23.66	33	-9.34
				50	25	22.13	23.10	33	-9.9
				100	0	22.30	23.27	33	-9.73
	18900	1880	QPSK	1	0	22.63	23.60	33	-9.4
				1	99	22.92	23.89	33	-9.11
				50	25	22.37	23.34	33	-9.66
				100	0	22.24	23.21	33	-9.79
	19100	1900	QPSK	1	0	22.23	23.20	33	-9.8
				1	99	22.52	23.49	33	-9.51
				50	25	22.12	23.09	33	-9.91
				100	0	22.38	23.35	33	-9.65
	18700	1860	16QAM	1	0	22.44	23.41	33	-9.59
				1	99	22.68	23.65	33	-9.35
				50	25	21.16	22.13	33	-10.87
				100	0	21.30	22.27	33	-10.73
	18900	1880	16QAM	1	0	22.73	23.70	33	-9.3
				1	99	22.30	23.27	33	-9.73
				50	25	21.37	22.34	33	-10.66
				100	0	21.46	22.43	33	-10.57
	19100	1900	16QAM	1	0	22.26	23.23	33	-9.77
				1	99	21.97	22.94	33	-10.06
				50	25	21.14	22.11	33	-10.89
				100	0	21.36	22.33	33	-10.67

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.49	23.22	30	-6.78
				1	5	23.51	23.24	30	-6.76
				3	2	22.98	22.71	30	-7.29
				6	0	22.50	22.23	30	-7.77
	20175	1732.5	QPSK	1	0	23.32	23.05	30	-6.95
				1	5	23.31	23.04	30	-6.96
				3	2	22.93	22.66	30	-7.34
				6	0	22.35	22.08	30	-7.92
	20393	1754.3	QPSK	1	0	23.76	23.49	30	-6.51
				1	5	23.78	23.51	30	-6.49
				3	2	22.95	22.68	30	-7.32
				6	0	22.80	22.53	30	-7.47
	19957	1710.7	16QAM	1	0	22.75	22.48	30	-7.52
				1	5	22.76	22.49	30	-7.51
				3	2	22.51	22.24	30	-7.76
				6	0	21.58	21.31	30	-8.69
	20175	1732.5	16QAM	1	0	22.46	22.19	30	-7.81
				1	5	22.61	22.34	30	-7.66
				3	2	22.40	22.13	30	-7.87
				6	0	21.42	21.15	30	-8.85
	20393	1754.3	16QAM	1	0	22.96	22.69	30	-7.31
				1	5	22.99	22.72	30	-7.28
				3	2	22.86	22.59	30	-7.41
				6	0	21.79	21.52	30	-8.48

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.02	22.75	30	-7.25
				1	14	22.89	22.62	30	-7.38
				8	4	22.30	22.03	30	-7.97
				15	0	22.24	21.97	30	-8.03
	20175	1732.5	QPSK	1	0	23.07	22.80	30	-7.2
				1	14	23.09	22.82	30	-7.18
				8	4	21.92	21.65	30	-8.35
				15	0	22.17	21.90	30	-8.1
	20385	1753.5	QPSK	1	0	23.23	22.96	30	-7.04
				1	14	23.47	23.20	30	-6.8
				8	4	22.05	21.78	30	-8.22
				15	0	22.35	22.08	30	-7.92
	19965	1711.5	16QAM	1	0	22.43	22.16	30	-7.84
				1	14	22.28	22.01	30	-7.99
				8	4	21.21	20.94	30	-9.06
				15	0	21.35	21.08	30	-8.92
	20175	1732.5	16QAM	1	0	22.46	22.19	30	-7.81
				1	14	22.18	21.91	30	-8.09
				8	4	21.15	20.88	30	-9.12
				15	0	21.25	20.98	30	-9.02
	20385	1753.5	16QAM	1	0	22.17	21.90	30	-8.1
				1	14	22.43	22.16	30	-7.84
				8	4	21.04	20.77	30	-9.23
				15	0	21.46	21.19	30	-8.81

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.21	22.94	30	-7.06
				1	24	22.98	22.71	30	-7.29
				12	6	22.44	22.17	30	-7.83
				25	0	22.45	22.18	30	-7.82
	20175	1732.5	QPSK	1	0	23.26	22.99	30	-7.01
				1	24	23.20	22.93	30	-7.07
				12	6	22.12	21.85	30	-8.15
				25	0	22.30	22.03	30	-7.97
	20375	1752.5	QPSK	1	0	23.25	22.98	30	-7.02
				1	24	23.60	23.33	30	-6.67
				12	6	22.25	21.98	30	-8.02
				25	0	22.54	22.27	30	-7.73
	19975	1712.5	16QAM	1	0	22.47	22.20	30	-7.8
				1	24	22.49	22.22	30	-7.78
				12	6	21.39	21.12	30	-8.88
				25	0	21.44	21.17	30	-8.83
	20175	1732.5	16QAM	1	0	22.59	22.32	30	-7.68
				1	24	22.30	22.03	30	-7.97
				12	6	21.22	20.95	30	-9.05
				25	0	21.27	21.00	30	-9
	20375	1752.5	16QAM	1	0	22.35	22.08	30	-7.92
				1	24	22.59	22.32	30	-7.68
				12	6	21.14	20.87	30	-9.13
				25	0	21.48	21.21	30	-8.79

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.39	23.12	30	-6.88
				1	49	23.07	22.80	30	-7.2
				25	12	22.50	22.23	30	-7.77
				50	0	22.60	22.33	30	-7.67
	20175	1732.5	QPSK	1	0	23.34	23.07	30	-6.93
				1	49	23.36	23.09	30	-6.91
				25	12	22.24	21.97	30	-8.03
				50	0	22.40	22.13	30	-7.87
	20375	1750	QPSK	1	0	23.29	23.02	30	-6.98
				1	49	23.64	23.37	30	-6.63
				25	12	22.27	22.00	30	-8
				50	0	22.67	22.40	30	-7.6
	20000	1715	16QAM	1	0	22.67	22.40	30	-7.6
				1	49	22.51	22.24	30	-7.76
				25	12	21.41	21.14	30	-8.86
				50	0	21.52	21.25	30	-8.75
	20175	1732.5	16QAM	1	0	22.62	22.35	30	-7.65
				1	49	22.33	22.06	30	-7.94
				25	12	21.31	21.04	30	-8.96
				50	0	21.29	21.02	30	-8.98
	20375	1750	16QAM	1	0	22.42	22.15	30	-7.85
				1	49	22.64	22.37	30	-7.63
				25	12	21.24	20.97	30	-9.03
				50	0	21.60	21.33	30	-8.67

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.43	23.16	30	-6.84
				1	74	23.18	22.91	30	-7.09
				36	18	22.61	22.34	30	-7.66
				75	0	22.69	22.42	30	-7.58
	20175	1732.5	QPSK	1	0	23.36	23.09	30	-6.91
				1	74	23.40	23.13	30	-6.87
				36	18	22.40	22.13	30	-7.87
				75	0	22.51	22.24	30	-7.76
	20325	1747.5	QPSK	1	0	23.36	23.09	30	-6.91
				1	74	23.68	23.41	30	-6.59
				36	18	22.42	22.15	30	-7.85
				75	0	22.72	22.45	30	-7.55
	20025	1717.5	16QAM	1	0	22.71	22.44	30	-7.56
				1	74	22.55	22.28	30	-7.72
				36	18	21.62	21.35	30	-8.65
				75	0	21.66	21.39	30	-8.61
	20175	1732.5	16QAM	1	0	22.80	22.53	30	-7.47
				1	74	22.38	22.11	30	-7.89
				36	18	21.37	21.10	30	-8.9
				75	0	21.42	21.15	30	-8.85
	20325	1747.5	16QAM	1	0	22.60	22.33	30	-7.67
				1	74	22.74	22.47	30	-7.53
				36	18	21.42	21.15	30	-8.85
				75	0	21.67	21.40	30	-8.6

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.37	23.10	30	-6.9
				1	99	23.62	23.35	30	-6.65
				50	25	22.65	22.38	30	-7.62
				100	0	22.75	22.48	30	-7.52
	20175	1732.5	QPSK	1	0	23.45	23.18	30	-6.82
				1	99	23.55	23.28	30	-6.72
				50	25	22.44	22.17	30	-7.83
				100	0	22.55	22.28	30	-7.72
	20300	1745	QPSK	1	0	23.79	23.52	30	-6.48
				1	99	23.45	23.18	30	-6.82
				50	25	22.59	22.32	30	-7.68
				100	0	22.77	22.50	30	-7.5
	20050	1720	16QAM	1	0	22.89	22.62	30	-7.38
				1	99	22.65	22.38	30	-7.62
				50	25	21.68	21.41	30	-8.59
				100	0	21.76	21.49	30	-8.51
	20175	1732.5	16QAM	1	0	22.83	22.56	30	-7.44
				1	99	22.55	22.28	30	-7.72
				50	25	21.48	21.21	30	-8.79
				100	0	21.59	21.32	30	-8.68
	20300	1745	16QAM	1	0	22.62	22.35	30	-7.65
				1	99	22.91	22.64	30	-7.36
				50	25	21.61	21.34	30	-8.66
				100	0	21.76	21.49	30	-8.51

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.89	20.01	22.16	38.45	-16.29
				1	5	23.84	19.96	22.11	38.45	-16.34
				3	2	23.95	20.07	22.22	38.45	-16.23
				6	0	23.10	19.22	21.37	38.45	-17.08
	20525	836.5	QPSK	1	0	23.90	20.02	22.17	38.45	-16.28
				1	5	23.90	20.02	22.17	38.45	-16.28
				3	2	23.90	20.02	22.17	38.45	-16.28
				6	0	22.97	19.09	21.24	38.45	-17.21
	20643	848.3	QPSK	1	0	23.97	20.09	22.24	38.45	-16.21
				1	5	23.96	20.08	22.23	38.45	-16.22
				3	2	23.96	20.08	22.23	38.45	-16.22
				6	0	23.01	19.13	21.28	38.45	-17.17
	20407	824.7	16QAM	1	0	23.34	19.46	21.61	38.45	-16.84
				1	5	23.30	19.42	21.57	38.45	-16.88
				3	2	22.76	18.88	21.03	38.45	-17.42
				6	0	22.20	18.32	20.47	38.45	-17.98
	20525	836.5	16QAM	1	0	23.18	19.30	21.45	38.45	-17
				1	5	23.20	19.32	21.47	38.45	-16.98
				3	2	22.68	18.80	20.95	38.45	-17.5
				6	0	22.02	18.14	20.29	38.45	-18.16
	20643	848.3	16QAM	1	0	23.21	19.33	21.48	38.45	-16.97
				1	5	23.27	19.39	21.54	38.45	-16.91
				3	2	22.70	18.82	20.97	38.45	-17.48
				6	0	22.07	18.19	20.34	38.45	-18.11

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.80	19.92	22.07	38.45	-16.38
				1	14	23.68	19.80	21.95	38.45	-16.5
				8	4	22.78	18.90	21.05	38.45	-17.4
				15	0	22.86	18.98	21.13	38.45	-17.32
	20525	836.5	QPSK	1	0	23.72	19.84	21.99	38.45	-16.46
				1	14	23.64	19.76	21.91	38.45	-16.54
				8	4	22.75	18.87	21.02	38.45	-17.43
				15	0	22.96	19.08	21.23	38.45	-17.22
	20635	847.5	QPSK	1	0	23.68	19.80	21.95	38.45	-16.5
				1	14	23.82	19.94	22.09	38.45	-16.36
				8	4	22.82	18.94	21.09	38.45	-17.36
				15	0	22.75	18.87	21.02	38.45	-17.43
	20415	825.5	16QAM	1	0	23.03	19.15	21.30	38.45	-17.15
				1	14	23.07	19.19	21.34	38.45	-17.11
				8	4	21.82	17.94	20.09	38.45	-18.36
				15	0	21.94	18.06	20.21	38.45	-18.24
	20525	836.5	16QAM	1	0	22.97	19.09	21.24	38.45	-17.21
				1	14	22.90	19.02	21.17	38.45	-17.28
				8	4	21.88	18.00	20.15	38.45	-18.3
				15	0	21.94	18.06	20.21	38.45	-18.24
	20635	847.5	16QAM	1	0	23.19	19.31	21.46	38.45	-16.99
				1	14	23.07	19.19	21.34	38.45	-17.11
				8	4	21.89	18.01	20.16	38.45	-18.29
				15	0	21.86	17.98	20.13	38.45	-18.32

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.84	19.96	22.11	38.45	-16.34
				1	24	23.87	19.99	22.14	38.45	-16.31
				12	6	22.96	19.08	21.23	38.45	-17.22
				25	0	23.01	19.13	21.28	38.45	-17.17
	20525	836.5	QPSK	1	0	23.88	20.00	22.15	38.45	-16.3
				1	24	23.84	19.96	22.11	38.45	-16.34
				12	6	22.94	19.06	21.21	38.45	-17.24
				25	0	23.00	19.12	21.27	38.45	-17.18
	20625	846.5	QPSK	1	0	23.87	19.99	22.14	38.45	-16.31
				1	24	23.96	20.08	22.23	38.45	-16.22
				12	6	22.98	19.10	21.25	38.45	-17.2
				25	0	22.91	19.03	21.18	38.45	-17.27
	20425	826.5	16QAM	1	0	23.18	19.30	21.45	38.45	-17
				1	24	23.15	19.27	21.42	38.45	-17.03
				12	6	21.97	18.09	20.24	38.45	-18.21
				25	0	22.08	18.20	20.35	38.45	-18.1
	20525	836.5	16QAM	1	0	23.11	19.23	21.38	38.45	-17.07
				1	24	23.02	19.14	21.29	38.45	-17.16
				12	6	22.00	18.12	20.27	38.45	-18.18
				25	0	22.05	18.17	20.32	38.45	-18.13
	20625	846.5	16QAM	1	0	23.22	19.34	21.49	38.45	-16.96
				1	24	23.16	19.28	21.43	38.45	-17.02
				12	6	21.96	18.08	20.23	38.45	-18.22
				25	0	21.96	18.08	20.23	38.45	-18.22

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.99	20.11	22.26	38.45	-16.19
				1	49	23.96	20.08	22.23	38.45	-16.22
				25	12	23.03	19.15	21.30	38.45	-17.15
				50	0	23.06	19.18	21.33	38.45	-17.12
	20525	836.5	QPSK	1	0	23.98	20.10	22.25	38.45	-16.2
				1	49	23.93	20.05	22.20	38.45	-16.25
				25	12	23.04	19.16	21.31	38.45	-17.14
				50	0	23.04	19.16	21.31	38.45	-17.14
	20600	844	QPSK	1	0	23.97	20.09	22.24	38.45	-16.21
				1	49	23.95	20.07	22.22	38.45	-16.23
				25	12	23.00	19.12	21.27	38.45	-17.18
				50	0	23.11	19.23	21.38	38.45	-17.07
	20450	829	16QAM	1	0	23.26	19.38	21.53	38.45	-16.92
				1	49	23.29	19.41	21.56	38.45	-16.89
				25	12	22.10	18.22	20.37	38.45	-18.08
				50	0	22.14	18.26	20.41	38.45	-18.04
	20525	836.5	16QAM	1	0	23.26	19.38	21.53	38.45	-16.92
				1	49	23.18	19.30	21.45	38.45	-17
				25	12	22.11	18.23	20.38	38.45	-18.07
				50	0	22.13	18.25	20.40	38.45	-18.05
	20600	844	16QAM	1	0	23.27	19.39	21.54	38.45	-16.91
				1	49	23.32	19.44	21.59	38.45	-16.86
				25	12	22.06	18.18	20.33	38.45	-18.12
				50	0	22.15	18.27	20.42	38.45	-18.03

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	23.22	24.47	33	-8.53
				1	24	23.32	24.57	33	-8.43
				12	6	22.38	23.63	33	-9.37
				25	0	22.39	23.64	33	-9.36
	21100	2535	QPSK	1	0	23.11	24.36	33	-8.64
				1	24	23.18	24.43	33	-8.57
				12	6	22.21	23.46	33	-9.54
				25	0	22.22	23.47	33	-9.53
	21375	2567.5	QPSK	1	0	23.14	24.39	33	-8.61
				1	24	23.04	24.29	33	-8.71
				12	6	22.23	23.48	33	-9.52
				25	0	22.26	23.51	33	-9.49
	20775	2502.5	16QAM	1	0	22.42	23.67	33	-9.33
				1	24	22.45	23.70	33	-9.3
				12	6	21.42	22.67	33	-10.33
				25	0	21.41	22.66	33	-10.34
	21100	2535	16QAM	1	0	22.24	23.49	33	-9.51
				1	24	22.21	23.46	33	-9.54
				12	6	21.30	22.55	33	-10.45
				25	0	21.32	22.57	33	-10.43
	21375	2567.5	16QAM	1	0	22.25	23.50	33	-9.5
				1	24	22.28	23.53	33	-9.47
				12	6	21.28	22.53	33	-10.47
				25	0	21.29	22.54	33	-10.46

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.24	24.49	33	-8.51
				1	49	23.25	24.50	33	-8.5
				25	12	22.15	23.40	33	-9.6
				50	0	22.33	23.58	33	-9.42
	21100	2535	QPSK	1	0	22.86	24.11	33	-8.89
				1	49	23.20	24.45	33	-8.55
				25	12	22.09	23.34	33	-9.66
				50	0	22.27	23.52	33	-9.48
	21350	2565	QPSK	1	0	22.83	24.08	33	-8.92
				1	49	22.99	24.24	33	-8.76
				25	12	21.95	23.20	33	-9.8
				50	0	22.21	23.46	33	-9.54
	20800	2505	16QAM	1	0	22.31	23.56	33	-9.44
				1	49	22.54	23.79	33	-9.21
				25	12	21.27	22.52	33	-10.48
				50	0	21.34	22.59	33	-10.41
	21100	2535	16QAM	1	0	22.38	23.63	33	-9.37
				1	49	22.52	23.77	33	-9.23
				25	12	21.06	22.31	33	-10.69
				50	0	21.14	22.39	33	-10.61
	21350	2565	16QAM	1	0	21.98	23.23	33	-9.77
				1	49	22.36	23.61	33	-9.39
				25	12	21.11	22.36	33	-10.64
				50	0	21.16	22.41	33	-10.59

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	23.31	24.56	33	-8.44
				1	74	23.41	24.66	33	-8.34
				36	18	22.29	23.54	33	-9.46
				75	0	22.54	23.79	33	-9.21
	21100	2535	QPSK	1	0	23.00	24.25	33	-8.75
				1	74	23.39	24.64	33	-8.36
				36	18	22.16	23.41	33	-9.59
				75	0	22.37	23.62	33	-9.38
	21375	2562.5	QPSK	1	0	22.99	24.24	33	-8.76
				1	74	23.15	24.40	33	-8.6
				36	18	22.07	23.32	33	-9.68
				75	0	22.26	23.51	33	-9.49
	20825	2507.5	16QAM	1	0	22.43	23.68	33	-9.32
				1	74	22.71	23.96	33	-9.04
				36	18	21.41	22.66	33	-10.34
				75	0	21.55	22.80	33	-10.2
	21100	2535	16QAM	1	0	22.42	23.67	33	-9.33
				1	74	22.61	23.86	33	-9.14
				36	18	21.22	22.47	33	-10.53
				75	0	21.35	22.60	33	-10.4
	21375	2562.5	16QAM	1	0	22.15	23.40	33	-9.6
				1	74	22.38	23.63	33	-9.37
				36	18	21.19	22.44	33	-10.56
				75	0	21.26	22.51	33	-10.49

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Antenna gain (dBi) 1.25

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	23.50	24.75	33	-8.25
				1	99	23.37	24.62	33	-8.38
				50	25	22.45	23.70	33	-9.3
				100	0	22.57	23.82	33	-9.18
	21100	2535	QPSK	1	0	23.47	24.72	33	-8.28
				1	99	23.19	24.44	33	-8.56
				50	25	22.34	23.59	33	-9.41
				100	0	22.51	23.76	33	-9.24
	21350	2560	QPSK	1	0	23.23	24.48	33	-8.52
				1	99	23.12	24.37	33	-8.63
				50	25	22.23	23.48	33	-9.52
				100	0	22.37	23.62	33	-9.38
	20850	2510	16QAM	1	0	22.60	23.85	33	-9.15
				1	99	22.82	24.07	33	-8.93
				50	25	21.47	22.72	33	-10.28
				100	0	21.57	22.82	33	-10.18
	21100	2535	16QAM	1	0	22.44	23.69	33	-9.31
				1	99	22.71	23.96	33	-9.04
				50	25	21.39	22.64	33	-10.36
				100	0	21.51	22.76	33	-10.24
	21350	2560	16QAM	1	0	22.35	23.60	33	-9.4
				1	99	22.43	23.68	33	-9.32
				50	25	21.24	22.49	33	-10.51
				100	0	21.35	22.60	33	-10.4

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.74	19.96	22.11	34.77	-12.66
				1	5	22.79	20.01	22.16	34.77	-12.61
				3	2	22.80	20.02	22.17	34.77	-12.6
				6	0	21.79	19.01	21.16	34.77	-13.61
	23095	707.5	QPSK	1	0	22.75	19.97	22.12	34.77	-12.65
				1	5	22.80	20.02	22.17	34.77	-12.6
				3	2	22.83	20.05	22.20	34.77	-12.57
				6	0	21.85	19.07	21.22	34.77	-13.55
	23173	715.5	QPSK	1	0	22.76	19.98	22.13	34.77	-12.64
				1	5	22.77	19.99	22.14	34.77	-12.63
				3	2	22.71	19.93	22.08	34.77	-12.69
				6	0	21.83	19.05	21.20	34.77	-13.57
	23017	699.7	16QAM	1	0	22.08	19.30	21.45	34.77	-13.32
				1	5	22.09	19.31	21.46	34.77	-13.31
				3	2	21.84	19.06	21.21	34.77	-13.56
				6	0	20.87	18.09	20.24	34.77	-14.53
	23095	707.5	16QAM	1	0	22.08	19.30	21.45	34.77	-13.32
				1	5	22.02	19.24	21.39	34.77	-13.38
				3	2	21.86	19.08	21.23	34.77	-13.54
				6	0	20.93	18.15	20.30	34.77	-14.47
	23173	715.5	16QAM	1	0	22.15	19.37	21.52	34.77	-13.25
				1	5	22.10	19.32	21.47	34.77	-13.3
				3	2	21.87	19.09	21.24	34.77	-13.53
				6	0	20.90	18.12	20.27	34.77	-14.5

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.38	19.60	21.75	34.77	-13.02
				1	14	22.50	19.72	21.87	34.77	-12.9
				8	4	21.63	18.85	21.00	34.77	-13.77
				15	0	21.62	18.84	20.99	34.77	-13.78
	23095	707.5	QPSK	1	0	22.34	19.56	21.71	34.77	-13.06
				1	14	22.55	19.77	21.92	34.77	-12.85
				8	4	21.56	18.78	20.93	34.77	-13.84
				15	0	21.57	18.79	20.94	34.77	-13.83
	23165	714.5	QPSK	1	0	22.46	19.68	21.83	34.77	-12.94
				1	14	22.47	19.69	21.84	34.77	-12.93
				8	4	21.56	18.78	20.93	34.77	-13.84
				15	0	21.70	18.92	21.07	34.77	-13.7
	23025	700.5	16QAM	1	0	21.56	18.78	20.93	34.77	-13.84
				1	14	21.75	18.97	21.12	34.77	-13.65
				8	4	20.52	17.74	19.89	34.77	-14.88
				15	0	20.70	17.92	20.07	34.77	-14.7
	23095	707.5	16QAM	1	0	21.62	18.84	20.99	34.77	-13.78
				1	14	21.86	19.08	21.23	34.77	-13.54
				8	4	20.85	18.07	20.22	34.77	-14.55
				15	0	20.72	17.94	20.09	34.77	-14.68
	23165	714.5	16QAM	1	0	21.79	19.01	21.16	34.77	-13.61
				1	14	21.84	19.06	21.21	34.77	-13.56
				8	4	20.76	17.98	20.13	34.77	-14.64
				15	0	20.69	17.91	20.06	34.77	-14.71

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.55	19.77	21.92	34.77	-12.85
				1	24	22.66	19.88	22.03	34.77	-12.74
				12	6	21.73	18.95	21.10	34.77	-13.67
				25	0	21.80	19.02	21.17	34.77	-13.6
	23095	707.5	QPSK	1	0	22.51	19.73	21.88	34.77	-12.89
				1	24	22.67	19.89	22.04	34.77	-12.73
				12	6	21.75	18.97	21.12	34.77	-13.65
				25	0	21.73	18.95	21.10	34.77	-13.67
	23155	713.5	QPSK	1	0	22.50	19.72	21.87	34.77	-12.9
				1	24	22.64	19.86	22.01	34.77	-12.76
				12	6	21.77	18.99	21.14	34.77	-13.63
				25	0	21.87	19.09	21.24	34.77	-13.53
	23035	701.5	16QAM	1	0	21.70	18.92	21.07	34.77	-13.7
				1	24	21.93	19.15	21.30	34.77	-13.47
				12	6	20.67	17.89	20.04	34.77	-14.73
				25	0	20.87	18.09	20.24	34.77	-14.53
	23095	707.5	16QAM	1	0	21.82	19.04	21.19	34.77	-13.58
				1	24	21.98	19.20	21.35	34.77	-13.42
				12	6	20.94	18.16	20.31	34.77	-14.46
				25	0	20.82	18.04	20.19	34.77	-14.58
	23155	713.5	16QAM	1	0	21.89	19.11	21.26	34.77	-13.51
				1	24	21.90	19.12	21.27	34.77	-13.5
				12	6	20.84	18.06	20.21	34.77	-14.56
				25	0	20.84	18.06	20.21	34.77	-14.56

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	22.72	19.94	22.09	34.77	-12.68
				1	49	22.59	19.81	21.96	34.77	-12.81
				25	12	21.82	19.04	21.19	34.77	-13.58
				50	0	21.88	19.10	21.25	34.77	-13.52
	23095	707.5	QPSK	1	0	22.84	20.06	22.21	34.77	-12.56
				1	49	22.66	19.88	22.03	34.77	-12.74
				25	12	21.81	19.03	21.18	34.77	-13.59
				50	0	21.93	19.15	21.30	34.77	-13.47
	23130	711	QPSK	1	0	22.77	19.99	22.14	34.77	-12.63
				1	49	22.67	19.89	22.04	34.77	-12.73
				25	12	21.83	19.05	21.20	34.77	-13.57
				50	0	21.98	19.20	21.35	34.77	-13.42
	23060	704	16QAM	1	0	21.89	19.11	21.26	34.77	-13.51
				1	49	22.01	19.23	21.38	34.77	-13.39
				25	12	20.85	18.07	20.22	34.77	-14.55
				50	0	21.02	18.24	20.39	34.77	-14.38
	23095	707.5	16QAM	1	0	22.01	19.23	21.38	34.77	-13.39
				1	49	22.11	19.33	21.48	34.77	-13.29
				25	12	20.97	18.19	20.34	34.77	-14.43
				50	0	20.97	18.19	20.34	34.77	-14.43
	23130	711	16QAM	1	0	21.92	19.14	21.29	34.77	-13.48
				1	49	22.05	19.27	21.42	34.77	-13.35
				25	12	20.91	18.13	20.28	34.77	-14.49
				50	0	21.02	18.24	20.39	34.77	-14.38

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.37	21.23	23.38	34.77	-11.39
				1	24	23.37	21.23	23.38	34.77	-11.39
				12	6	22.50	20.36	22.51	34.77	-12.26
				25	0	22.51	20.37	22.52	34.77	-12.25
	23230	782	QPSK	1	0	23.42	21.28	23.43	34.77	-11.34
				1	24	23.43	21.29	23.44	34.77	-11.33
				12	6	22.30	20.16	22.31	34.77	-12.46
				25	0	22.36	20.22	22.37	34.77	-12.4
	23255	784.5	QPSK	1	0	23.43	21.29	23.44	34.77	-11.33
				1	24	23.41	21.27	23.42	34.77	-11.35
				12	6	22.38	20.24	22.39	34.77	-12.38
				25	0	22.40	20.26	22.41	34.77	-12.36
	23205	779.5	16QAM	1	0	22.65	20.51	22.66	34.77	-12.11
				1	24	22.63	20.49	22.64	34.77	-12.13
				12	6	21.57	19.43	21.58	34.77	-13.19
				25	0	21.57	19.43	21.58	34.77	-13.19
	23230	782	16QAM	1	0	22.85	20.71	22.86	34.77	-11.91
				1	24	22.67	20.53	22.68	34.77	-12.09
				12	6	21.35	19.21	21.36	34.77	-13.41
				25	0	21.40	19.26	21.41	34.77	-13.36
	23255	784.5	16QAM	1	0	22.70	20.56	22.71	34.77	-12.06
				1	24	22.67	20.53	22.68	34.77	-12.09
				12	6	21.46	19.32	21.47	34.77	-13.3
				25	0	21.45	19.31	21.46	34.77	-13.31

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.39	21.25	23.40	34.77	-11.37
				1	49	23.43	21.29	23.44	34.77	-11.33
				25	12	22.38	20.24	22.39	34.77	-12.38
				50	0	22.55	20.41	22.56	34.77	-12.21
	23230	782	16QAM	1	0	22.67	20.53	22.68	34.77	-12.09
				1	49	22.79	20.65	22.80	34.77	-11.97
				25	12	21.43	19.29	21.44	34.77	-13.33
				50	0	21.61	19.47	21.62	34.77	-13.15

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Antenna gain (dBi) -0.97

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.89	19.77	21.92	34.77	-12.85
				1	24	22.84	19.72	21.87	34.77	-12.9
				12	6	21.95	18.83	20.98	34.77	-13.79
				25	0	21.95	18.83	20.98	34.77	-13.79
	23790	710	QPSK	1	0	22.79	19.67	21.82	34.77	-12.95
				1	24	22.90	19.78	21.93	34.77	-12.84
				12	6	21.83	18.71	20.86	34.77	-13.91
				25	0	21.89	18.77	20.92	34.77	-13.85
	23825	713.5	QPSK	1	0	22.83	19.71	21.86	34.77	-12.91
				1	24	22.91	19.79	21.94	34.77	-12.83
				12	6	21.90	18.78	20.93	34.77	-13.84
				25	0	21.92	18.80	20.95	34.77	-13.82
	23755	706.5	16QAM	1	0	22.34	19.22	21.37	34.77	-13.4
				1	24	22.18	19.06	21.21	34.77	-13.56
				12	6	21.00	17.88	20.03	34.77	-14.74
				25	0	21.00	17.88	20.03	34.77	-14.74
	23790	710	16QAM	1	0	22.00	18.88	21.03	34.77	-13.74
				1	24	22.11	18.99	21.14	34.77	-13.63
				12	6	20.91	17.79	19.94	34.77	-14.83
				25	0	20.96	17.84	19.99	34.77	-14.78
	23825	713.5	16QAM	1	0	22.22	19.10	21.25	34.77	-13.52
				1	24	22.15	19.03	21.18	34.77	-13.59
				12	6	20.97	17.85	20.00	34.77	-14.77
				25	0	20.94	17.82	19.97	34.77	-14.8

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Antenna gain (dBi) -0.97

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.08	19.96	22.11	34.77	-12.66
				1	49	22.92	19.80	21.95	34.77	-12.82
				25	12	21.97	18.85	21.00	34.77	-13.77
				50	0	22.07	18.95	21.10	34.77	-13.67
	23790	710	QPSK	1	0	23.06	19.94	22.09	34.77	-12.68
				1	49	22.85	19.73	21.88	34.77	-12.89
				25	12	21.96	18.84	20.99	34.77	-13.78
				50	0	22.06	18.94	21.09	34.77	-13.68
	23800	711	QPSK	1	0	22.97	19.85	22.00	34.77	-12.77
				1	49	22.80	19.68	21.83	34.77	-12.94
				25	12	21.95	18.83	20.98	34.77	-13.79
				50	0	22.08	18.96	21.11	34.77	-13.66
	23780	709	16QAM	1	0	22.20	19.08	21.23	34.77	-13.54
				1	49	22.40	19.28	21.43	34.77	-13.34
				25	12	21.10	17.98	20.13	34.77	-14.64
				50	0	21.11	17.99	20.14	34.77	-14.63
	23790	710	16QAM	1	0	22.10	18.98	21.13	34.77	-13.64
				1	49	22.34	19.22	21.37	34.77	-13.4
				25	12	21.04	17.92	20.07	34.77	-14.7
				50	0	21.10	17.98	20.13	34.77	-14.64
	23800	711	16QAM	1	0	22.06	18.94	21.09	34.77	-13.68
				1	49	22.25	19.13	21.28	34.77	-13.49
				25	12	21.01	17.89	20.04	34.77	-14.73
				50	0	21.16	18.04	20.19	34.77	-14.58

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.16	19.24	21.39	38.45	-17.06
				1	5	23.16	19.24	21.39	38.45	-17.06
				3	2	22.98	19.06	21.21	38.45	-17.24
				6	0	22.19	18.27	20.42	38.45	-18.03
	26915	836.5	QPSK	1	0	23.01	19.09	21.24	38.45	-17.21
				1	5	23.02	19.10	21.25	38.45	-17.2
				3	2	22.96	19.04	21.19	38.45	-17.26
				6	0	22.00	18.08	20.23	38.45	-18.22
	27033	848.3	QPSK	1	0	23.08	19.16	21.31	38.45	-17.14
				1	5	23.09	19.17	21.32	38.45	-17.13
				3	2	22.99	19.07	21.22	38.45	-17.23
				6	0	22.06	18.14	20.29	38.45	-18.16
	26797	824.7	16QAM	1	0	22.51	18.59	20.74	38.45	-17.71
				1	5	22.43	18.51	20.66	38.45	-17.79
				3	2	21.92	18.00	20.15	38.45	-18.3
				6	0	21.27	17.35	19.50	38.45	-18.95
	26915	836.5	16QAM	1	0	22.34	18.42	20.57	38.45	-17.88
				1	5	22.40	18.48	20.63	38.45	-17.82
				3	2	21.78	17.86	20.01	38.45	-18.44
				6	0	21.11	17.19	19.34	38.45	-19.11
	27033	848.3	16QAM	1	0	22.35	18.43	20.58	38.45	-17.87
				1	5	22.39	18.47	20.62	38.45	-17.83
				3	2	21.77	17.85	20.00	38.45	-18.45
				6	0	21.16	17.24	19.39	38.45	-19.06

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	22.78	18.86	21.01	38.45	-17.44
				1	14	22.65	18.73	20.88	38.45	-17.57
				8	4	21.89	17.97	20.12	38.45	-18.33
				15	0	22.06	18.14	20.29	38.45	-18.16
	26915	836.5	QPSK	1	0	22.77	18.85	21.00	38.45	-17.45
				1	14	22.69	18.77	20.92	38.45	-17.53
				8	4	21.68	17.76	19.91	38.45	-18.54
				15	0	21.78	17.86	20.01	38.45	-18.44
	27025	847.5	QPSK	1	0	22.62	18.70	20.85	38.45	-17.6
				1	14	22.73	18.81	20.96	38.45	-17.49
				8	4	21.67	17.75	19.90	38.45	-18.55
				15	0	21.90	17.98	20.13	38.45	-18.32
	26805	825.5	16QAM	1	0	22.07	18.15	20.30	38.45	-18.15
				1	14	21.89	17.97	20.12	38.45	-18.33
				8	4	20.77	16.85	19.00	38.45	-19.45
				15	0	21.07	17.15	19.30	38.45	-19.15
	26915	836.5	16QAM	1	0	22.06	18.14	20.29	38.45	-18.16
				1	14	22.22	18.30	20.45	38.45	-18
				8	4	20.90	16.98	19.13	38.45	-19.32
				15	0	21.10	17.18	19.33	38.45	-19.12
	27025	847.5	16QAM	1	0	21.76	17.84	19.99	38.45	-18.46
				1	14	21.92	18.00	20.15	38.45	-18.3
				8	4	22.66	18.74	20.89	38.45	-17.56
				15	0	20.85	16.93	19.08	38.45	-19.37

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	22.95	19.03	21.18	38.45	-17.27
				1	24	22.74	18.82	20.97	38.45	-17.48
				12	6	22.04	18.12	20.27	38.45	-18.18
				25	0	22.09	18.17	20.32	38.45	-18.13
	26915	836.5	QPSK	1	0	22.84	18.92	21.07	38.45	-17.38
				1	24	22.85	18.93	21.08	38.45	-17.37
				12	6	22.86	18.94	21.09	38.45	-17.36
				25	0	21.93	18.01	20.16	38.45	-18.29
	27015	846.5	QPSK	1	0	22.71	18.79	20.94	38.45	-17.51
				1	24	22.82	18.90	21.05	38.45	-17.4
				12	6	21.74	17.82	19.97	38.45	-18.48
				25	0	22.02	18.10	20.25	38.45	-18.2
	26815	826.5	16QAM	1	0	22.28	18.36	20.51	38.45	-17.94
				1	24	22.10	18.18	20.33	38.45	-18.12
				12	6	20.95	17.03	19.18	38.45	-19.27
				25	0	21.17	17.25	19.40	38.45	-19.05
	26915	836.5	16QAM	1	0	22.13	18.21	20.36	38.45	-18.09
				1	24	22.25	18.33	20.48	38.45	-17.97
				12	6	20.99	17.07	19.22	38.45	-19.23
				25	0	21.23	17.31	19.46	38.45	-18.99
	27015	846.5	16QAM	1	0	21.89	17.97	20.12	38.45	-18.33
				1	24	22.05	18.13	20.28	38.45	-18.17
				12	6	20.79	16.87	19.02	38.45	-19.43
				25	0	20.88	16.96	19.11	38.45	-19.34

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.06	19.14	21.29	38.45	-17.16
				1	49	22.94	19.02	21.17	38.45	-17.28
				25	12	22.15	18.23	20.38	38.45	-18.07
				50	0	22.17	18.25	20.40	38.45	-18.05
	26915	836.5	QPSK	1	0	22.92	19.00	21.15	38.45	-17.3
				1	49	22.89	18.97	21.12	38.45	-17.33
				25	12	21.99	18.07	20.22	38.45	-18.23
				50	0	22.10	18.18	20.33	38.45	-18.12
	26990	844	QPSK	1	0	22.87	18.95	21.10	38.45	-17.35
				1	49	22.97	19.05	21.20	38.45	-17.25
				25	12	21.94	18.02	20.17	38.45	-18.28
				50	0	22.07	18.15	20.30	38.45	-18.15
	26840	829	16QAM	1	0	22.40	18.48	20.63	38.45	-17.82
				1	49	22.23	18.31	20.46	38.45	-17.99
				25	12	21.08	17.16	19.31	38.45	-19.14
				50	0	21.31	17.39	19.54	38.45	-18.91
	26915	836.5	16QAM	1	0	22.16	18.24	20.39	38.45	-18.06
				1	49	22.36	18.44	20.59	38.45	-17.864
				25	12	21.01	17.09	19.24	38.45	-19.21
				50	0	21.26	17.34	19.49	38.45	-18.96
	26990	844	16QAM	1	0	21.97	18.05	20.20	38.45	-18.25
				1	49	22.08	18.16	20.31	38.45	-18.14
				25	12	20.96	17.04	19.19	38.45	-19.26
				50	0	21.06	17.14	19.29	38.45	-19.16

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	23.18	19.26	21.41	38.45	-17.04
				1	74	23.09	19.17	21.32	38.45	-17.13
				36	18	22.21	18.29	20.44	38.45	-18.01
				75	0	22.33	18.41	20.56	38.45	-17.89
	26915	836.5	QPSK	1	0	23.01	19.09	21.24	38.45	-17.21
				1	74	23.01	19.09	21.24	38.45	-17.21
				36	18	22.11	18.19	20.34	38.45	-18.11
				75	0	22.20	18.28	20.43	38.45	-18.02
	26965	841.5	QPSK	1	0	23.00	19.08	21.23	38.45	-17.22
				1	74	22.14	18.22	20.37	38.45	-18.08
				36	18	22.03	18.11	20.26	38.45	-18.19
				75	0	22.14	18.22	20.37	38.45	-18.08
	26865	831.5	16QAM	1	0	22.48	18.56	20.71	38.45	-17.74
				1	74	22.38	18.46	20.61	38.45	-17.84
				36	18	21.25	17.33	19.48	38.45	-18.97
				75	0	21.35	17.43	19.58	38.45	-18.87
	26915	836.5	16QAM	1	0	22.36	18.44	20.59	38.45	-17.86
				1	74	22.40	18.48	20.63	38.45	-17.82
				36	18	21.21	17.29	19.44	38.45	-19.01
				75	0	21.28	17.36	19.51	38.45	-18.94
	26965	841.5	16QAM	1	0	22.14	18.22	20.37	38.45	-18.08
				1	74	22.24	18.32	20.47	38.45	-17.98
				36	18	21.14	17.22	19.37	38.45	-19.08
				75	0	21.18	17.26	19.41	38.45	-19.04

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	22.92	18.98	21.13	50	-28.87
				1	5	22.99	19.05	21.20	50	-28.8
				3	2	22.88	18.94	21.09	50	-28.91
				6	0	21.92	17.98	20.13	50	-29.87
	26740	819	QPSK	1	0	23.05	19.11	21.26	50	-28.74
				1	5	23.05	19.11	21.26	50	-28.74
				3	2	22.98	19.04	21.19	50	-28.81
				6	0	22.06	18.12	20.27	50	-29.73
	26783	823.3	QPSK	1	0	23.08	19.14	21.29	50	-28.71
				1	5	23.10	19.16	21.31	50	-28.69
				3	2	22.98	19.04	21.19	50	-28.81
				6	0	22.10	18.16	20.31	50	-29.69
	26697	814.7	16QAM	1	0	22.27	18.33	20.48	50	-29.52
				1	5	22.27	18.33	20.48	50	-29.52
				3	2	21.77	17.83	19.98	50	-30.02
				6	0	21.02	17.08	19.23	50	-30.77
	26740	819	16QAM	1	0	22.28	18.34	20.49	50	-29.51
				1	5	22.41	18.47	20.62	50	-29.38
				3	2	21.99	18.05	20.20	50	-29.8
				6	0	21.20	17.26	19.41	50	-30.59
	26783	823.3	16QAM	1	0	22.38	18.44	20.59	50	-29.41
				1	5	22.49	18.55	20.70	50	-29.3
				3	2	21.94	18.00	20.15	50	-29.85
				6	0	21.20	17.26	19.41	50	-30.59

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.46	18.52	20.67	50	-29.33
				1	14	22.74	18.80	20.95	50	-29.05
				8	4	21.90	17.96	20.11	50	-29.89
				15	0	21.78	17.84	19.99	50	-30.01
	26740	819	QPSK	1	0	22.75	18.81	20.96	50	-29.04
				1	14	22.79	18.85	21.00	50	-29
				8	4	21.92	17.98	20.13	50	-29.87
				15	0	21.96	18.02	20.17	50	-29.83
	26775	822.5	QPSK	1	0	22.61	18.67	20.82	50	-29.18
				1	14	22.66	18.72	20.87	50	-29.13
				8	4	21.75	17.81	19.96	50	-30.04
				15	0	21.89	17.95	20.10	50	-29.9
	26705	815.5	16QAM	1	0	21.83	17.89	20.04	50	-29.96
				1	14	21.77	17.83	19.98	50	-30.02
				8	4	20.78	16.84	18.99	50	-31.01
				15	0	21.19	17.25	19.40	50	-30.6
	26740	819	16QAM	1	0	21.89	17.95	20.10	50	-29.9
				1	14	21.78	17.84	19.99	50	-30.01
				8	4	20.79	16.85	19.00	50	-31
				15	0	20.94	17.00	19.15	50	-30.85
	26775	822.5	16QAM	1	0	21.87	17.93	20.08	50	-29.92
				1	14	21.80	17.86	20.01	50	-29.99
				8	4	20.80	16.86	19.01	50	-30.99
				15	0	20.87	16.93	19.08	50	-30.92

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	22.63	18.69	20.84	50	-29.16
				1	24	22.78	18.84	20.99	50	-29.01
				12	6	22.03	18.09	20.24	50	-29.76
				25	0	21.94	18.00	20.15	50	-29.85
	26740	819	QPSK	1	0	22.87	18.93	21.08	50	-28.92
				1	24	22.86	18.92	21.07	50	-28.93
				12	6	21.95	18.01	20.16	50	-29.84
				25	0	22.06	18.12	20.27	50	-29.73
	26765	821.5	QPSK	1	0	22.72	18.78	20.93	50	-29.07
				1	24	22.80	18.86	21.01	50	-28.99
				12	6	21.80	17.86	20.01	50	-29.99
				25	0	21.93	17.99	20.14	50	-29.86
	26715	816.5	16QAM	1	0	21.91	17.97	20.12	50	-29.88
				1	24	21.86	17.92	20.07	50	-29.93
				12	6	20.94	17.00	19.15	50	-30.85
				25	0	21.22	17.28	19.43	50	-30.57
	26740	819	16QAM	1	0	22.09	18.15	20.30	50	-29.7
				1	24	21.92	17.98	20.13	50	-29.87
				12	6	20.96	17.02	19.17	50	-30.83
				25	0	21.04	17.10	19.25	50	-30.75
	26765	821.5	16QAM	1	0	22.00	18.06	20.21	50	-29.79
				1	24	21.94	18.00	20.15	50	-29.85
				12	6	20.88	16.94	19.09	50	-30.91
				25	0	20.90	16.96	19.11	50	-30.89

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.74	18.80	20.95	50	-29.05
				1	49	22.95	19.01	21.16	50	-28.84
				25	12	22.14	18.20	20.35	50	-29.65
				50	0	22.04	18.10	20.25	50	-29.75
	26740	819	16QAM	1	0	21.94	18.00	20.15	50	-29.85
				1	49	22.05	18.11	20.26	50	-29.74
				25	12	21.04	17.10	19.25	50	-30.75
				50	0	21.31	17.37	19.52	50	-30.48

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Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	19.60	22.97	24	-1.03
				1	24	19.74	23.11	24	-0.89
				12	6	18.76	22.13	24	-1.87
				25	0	18.76	22.13	24	-1.87
	27710	2310	QPSK	1	0	19.70	23.07	24	-0.93
				1	24	19.63	23.00	24	-1
				12	6	18.73	22.10	24	-1.9
				25	0	18.73	22.10	24	-1.9
	27735	2312.5	QPSK	1	0	19.69	23.06	24	-0.94
				1	24	19.70	23.07	24	-0.93
				12	6	18.79	22.16	24	-1.84
				25	0	18.78	22.15	24	-1.85
	27685	2307.5	16QAM	1	0	18.94	22.31	24	-1.69
				1	24	18.92	22.29	24	-1.71
				12	6	17.81	21.18	24	-2.82
				25	0	17.81	21.18	24	-2.82
	27710	2310	16QAM	1	0	18.91	22.28	24	-1.72
				1	24	18.95	22.32	24	-1.68
				12	6	17.79	21.16	24	-2.84
				25	0	17.79	21.16	24	-2.84
	27735	2312.5	16QAM	1	0	18.89	22.26	24	-1.74
				1	24	18.92	22.29	24	-1.71
				12	6	17.82	21.19	24	-2.81
				25	0	17.82	21.19	24	-2.81

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Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	19.95	23.32	24	-0.68
				1	49	19.87	23.24	24	-0.76
				25	12	18.99	22.36	24	-1.64
				50	0	18.93	22.30	24	-1.7
	27710	2310	16QAM	1	0	18.99	22.36	24	-1.64
				1	49	18.93	22.30	24	-1.7
				25	12	17.91	21.28	24	-2.72
				50	0	17.93	21.30	24	-2.7

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.61	26.57	33	-6.43
				1	24	23.59	26.55	33	-6.45
				12	6	22.36	25.32	33	-7.68
				25	0	22.35	25.31	33	-7.69
	38000	2595	QPSK	1	0	23.44	26.40	33	-6.6
				1	24	23.55	26.51	33	-6.49
				12	6	22.35	25.31	33	-7.69
				25	0	22.37	25.33	33	-7.67
	38225	2617.5	QPSK	1	0	23.37	26.33	33	-6.67
				1	24	23.31	26.27	33	-6.73
				12	6	22.32	25.28	33	-7.72
				25	0	22.43	25.39	33	-7.61
	37775	2572.5	16QAM	1	0	22.39	25.35	33	-7.65
				1	24	22.26	25.22	33	-7.78
				12	6	21.40	24.36	33	-8.64
				25	0	21.36	24.32	33	-8.68
	38000	2595	16QAM	1	0	22.24	25.20	33	-7.8
				1	24	22.42	25.38	33	-7.62
				12	6	21.29	24.25	33	-8.75
				25	0	21.40	24.36	33	-8.64
	38225	2617.5	16QAM	1	0	22.23	25.19	33	-7.81
				1	24	22.37	25.33	33	-7.67
				12	6	21.24	24.20	33	-8.8
				25	0	21.18	24.14	33	-8.86

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.62	26.58	33	-6.42
				1	49	23.47	26.43	33	-6.57
				25	12	22.35	25.31	33	-7.69
				50	0	22.32	25.28	33	-7.72
	38000	2595	QPSK	1	0	23.50	26.46	33	-6.54
				1	49	23.44	26.40	33	-6.6
				25	12	22.39	25.35	33	-7.65
				50	0	22.32	25.28	33	-7.72
	38200	2615	QPSK	1	0	23.35	26.31	33	-6.69
				1	49	23.32	26.28	33	-6.72
				25	12	22.33	25.29	33	-7.71
				50	0	22.42	25.38	33	-7.62
	37800	2575	16QAM	1	0	22.32	25.28	33	-7.72
				1	49	22.28	25.24	33	-7.76
				25	12	21.34	24.30	33	-8.7
				50	0	21.28	24.24	33	-8.76
	38000	2595	16QAM	1	0	22.18	25.14	33	-7.86
				1	49	22.33	25.29	33	-7.71
				25	12	21.33	24.29	33	-8.71
				50	0	21.29	24.25	33	-8.75
	38200	2615	16QAM	1	0	22.22	25.18	33	-7.82
				1	49	22.42	25.38	33	-7.62
				25	12	21.26	24.22	33	-8.78
				50	0	21.30	24.26	33	-8.74

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.51	26.47	33	-6.53
				1	74	23.55	26.51	33	-6.49
				36	19	22.47	25.43	33	-7.57
				75	0	22.46	25.42	33	-7.58
	38000	2595	QPSK	1	0	23.42	26.38	33	-6.62
				1	74	23.38	26.34	33	-6.66
				36	19	22.46	25.42	33	-7.58
				75	0	22.33	25.29	33	-7.71
	38175	2612.5	QPSK	1	0	23.52	26.48	33	-6.52
				1	74	23.45	26.41	33	-6.59
				36	19	22.41	25.37	33	-7.63
				75	0	22.28	25.24	33	-7.76
	37825	2577.5	16QAM	1	0	22.37	25.33	33	-7.67
				1	74	22.25	25.21	33	-7.79
				36	19	21.40	24.36	33	-8.64
				75	0	21.27	24.23	33	-8.77
	38000	2595	16QAM	1	0	22.29	25.25	33	-7.75
				1	74	22.42	25.38	33	-7.62
				36	19	21.29	24.25	33	-8.75
				75	0	21.31	24.27	33	-8.73
	38175	2612.5	16QAM	1	0	22.26	25.22	33	-7.78
				1	74	22.28	25.24	33	-7.76
				36	19	21.31	24.27	33	-8.73
				75	0	21.23	24.19	33	-8.81

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.68	26.64	33	-6.36
				1	99	23.62	26.58	33	-6.42
				50	25	22.51	25.47	33	-7.53
				100	0	22.54	25.50	33	-7.5
	38000	2595	QPSK	1	0	23.57	26.53	33	-6.47
				1	99	23.58	26.54	33	-6.46
				50	25	22.53	25.49	33	-7.51
				100	0	22.52	25.48	33	-7.52
	38150	2610	QPSK	1	0	23.55	26.51	33	-6.49
				1	99	23.51	26.47	33	-6.53
				50	25	22.48	25.44	33	-7.56
				100	0	22.50	25.46	33	-7.54
	37850	2580	16QAM	1	0	22.54	25.50	33	-7.5
				1	99	22.45	25.41	33	-7.59
				50	25	21.44	24.40	33	-8.6
				100	0	21.46	24.42	33	-8.58
	38000	2595	16QAM	1	0	22.39	25.35	33	-7.65
				1	99	22.52	25.48	33	-7.52
				50	25	21.37	24.33	33	-8.67
				100	0	21.48	24.44	33	-8.56
	38150	2610	16QAM	1	0	22.40	25.36	33	-7.64
				1	99	22.45	25.41	33	-7.59
				50	25	21.42	24.38	33	-8.62
				100	0	21.38	24.34	33	-8.66

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	23.29	26.25	33	-6.75
				1	24	23.23	26.19	33	-6.81
				12	6	22.29	25.25	33	-7.75
				25	0	22.26	25.22	33	-7.78
	40620	2593	QPSK	1	0	23.29	26.25	33	-6.75
				1	24	23.30	26.26	33	-6.74
				12	6	22.28	25.24	33	-7.76
				25	0	22.25	25.21	33	-7.79
	41565	2687.5	QPSK	1	0	23.32	26.28	33	-6.72
				1	24	23.30	26.26	33	-6.74
				12	6	22.37	25.33	33	-7.67
				25	0	22.32	25.28	33	-7.72
	39675	2498.5	16QAM	1	0	22.13	25.09	33	-7.91
				1	24	22.14	25.10	33	-7.9
				12	6	21.30	24.26	33	-8.74
				25	0	21.35	24.31	33	-8.69
	40620	2593	16QAM	1	0	22.23	25.19	33	-7.81
				1	24	22.23	25.19	33	-7.81
				12	6	21.28	24.24	33	-8.76
				25	0	21.32	24.28	33	-8.72
	41565	2687.5	16QAM	1	0	22.25	25.21	33	-7.79
				1	24	22.21	25.17	33	-7.83
				12	6	21.34	24.30	33	-8.7
				25	0	21.41	24.37	33	-8.63

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.95	25.91	33	-7.09
				1	49	23.02	25.98	33	-7.02
				25	12	21.83	24.79	33	-8.21
				50	0	22.14	25.10	33	-7.9
	40620	2593	QPSK	1	0	22.98	25.94	33	-7.06
				1	49	23.11	26.07	33	-6.93
				25	12	21.80	24.76	33	-8.24
				50	0	22.01	24.97	33	-8.03
	41540	2685	QPSK	1	0	23.15	26.11	33	-6.89
				1	49	22.95	25.91	33	-7.09
				25	12	21.99	24.95	33	-8.05
				50	0	22.07	25.03	33	-7.97
	39700	2501	16QAM	1	0	21.83	24.79	33	-8.21
				1	49	21.90	24.86	33	-8.14
				25	12	20.85	23.81	33	-9.19
				50	0	20.85	23.81	33	-9.19
	40620	2593	16QAM	1	0	21.94	24.90	33	-8.1
				1	49	22.14	25.10	33	-7.9
				25	12	21.06	24.02	33	-8.98
				50	0	20.91	23.87	33	-9.13
	41540	2685	16QAM	1	0	22.04	25.00	33	-8
				1	49	22.02	24.98	33	-8.02
				25	12	21.29	24.25	33	-8.75
				50	0	21.12	24.08	33	-8.92

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.01	25.97	33	-7.03
				1	74	23.08	26.04	33	-6.96
				36	18	22.02	24.98	33	-8.02
				75	0	22.16	25.12	33	-7.88
	40620	2593	QPSK	1	0	23.03	25.99	33	-7.01
				1	74	23.19	26.15	33	-6.85
				36	18	21.94	24.90	33	-8.1
				75	0	22.17	25.13	33	-7.87
	41515	2682.5	QPSK	1	0	23.24	26.20	33	-6.8
				1	74	23.04	26.00	33	-7
				36	18	22.13	25.09	33	-7.91
				75	0	22.26	25.22	33	-7.78
	39725	2503.5	16QAM	1	0	21.97	24.93	33	-8.07
				1	74	22.01	24.97	33	-8.03
				36	18	21.00	23.96	33	-9.04
				75	0	21.04	24.00	33	-9
	40620	2593	16QAM	1	0	22.12	25.08	33	-7.92
				1	74	22.27	25.23	33	-7.77
				36	18	21.21	24.17	33	-8.83
				75	0	21.06	24.02	33	-8.98
	41515	2682.5	16QAM	1	0	22.22	25.18	33	-7.82
				1	74	22.05	25.01	33	-7.99
				36	18	21.31	24.27	33	-8.73
				75	0	21.18	24.14	33	-8.86

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	Avg Conducted Power Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.15	26.11	33	-6.89
				1	99	23.11	26.07	33	-6.93
				50	25	22.15	25.11	33	-7.89
				100	0	22.22	25.18	33	-7.82
	40620	2593	QPSK	1	0	23.19	26.15	33	-6.85
				1	99	23.26	26.22	33	-6.78
				50	25	22.11	25.07	33	-7.93
				100	0	22.24	25.20	33	-7.8
	41490	2680	QPSK	1	0	23.36	26.32	33	-6.68
				1	99	23.23	26.19	33	-6.81
				50	25	22.30	25.26	33	-7.74
				100	0	22.45	25.41	33	-7.59
	39750	2506	16QAM	1	0	22.08	25.04	33	-7.96
				1	99	22.13	25.09	33	-7.91
				50	25	21.21	24.17	33	-8.83
				100	0	21.24	24.20	33	-8.8
	40620	2593	16QAM	1	0	22.29	25.25	33	-7.75
				1	99	22.35	25.31	33	-7.69
				50	25	21.27	24.23	33	-8.77
				100	0	21.23	24.19	33	-8.81
	41490	2680	16QAM	1	0	22.43	25.39	33	-7.61
				1	99	22.22	25.18	33	-7.82
				50	25	21.35	24.31	33	-8.69
				100	0	21.33	24.29	33	-8.71

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.38	23.11	30	-6.89
				1	5	23.43	23.16	30	-6.84
				3	2	22.99	22.72	30	-7.28
				6	0	22.20	21.93	30	-8.07
	132322	1745	QPSK	1	0	23.46	23.19	30	-6.81
				1	5	23.45	23.18	30	-6.82
				3	2	22.76	22.49	30	-7.51
				6	0	22.29	22.02	30	-7.98
	132665	1779.3	QPSK	1	0	23.69	23.42	30	-6.58
				1	5	23.66	23.39	30	-6.61
				3	2	22.93	22.66	30	-7.34
				6	0	22.50	22.23	30	-7.77
	131979	1710.7	16QAM	1	0	22.69	22.42	30	-7.58
				1	5	22.68	22.41	30	-7.59
				3	2	22.33	22.06	30	-7.94
				6	0	21.22	20.95	30	-9.05
	132322	1745	16QAM	1	0	22.85	22.58	30	-7.42
				1	5	22.92	22.65	30	-7.35
				3	2	22.36	22.09	30	-7.91
				6	0	21.29	21.02	30	-8.98
	132665	1779.3	16QAM	1	0	22.97	22.70	30	-7.3
				1	5	22.91	22.64	30	-7.36
				3	2	22.64	22.37	30	-7.63
				6	0	21.49	21.22	30	-8.78

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	22.88	22.61	30	-7.39
				1	14	22.79	22.52	30	-7.48
				8	4	21.88	21.61	30	-8.39
				15	0	22.13	21.86	30	-8.14
	132322	1745	QPSK	1	0	22.76	22.49	30	-7.51
				1	14	23.32	23.05	30	-6.95
				8	4	21.74	21.47	30	-8.53
				15	0	22.22	21.95	30	-8.05
	132657	1778.5	QPSK	1	0	23.16	22.89	30	-7.11
				1	14	23.16	22.89	30	-7.11
				8	4	21.90	21.63	30	-8.37
				15	0	22.18	21.91	30	-8.09
	131987	1711.5	16QAM	1	0	22.48	22.21	30	-7.79
				1	14	22.04	21.77	30	-8.23
				8	4	20.88	20.61	30	-9.39
				15	0	21.16	20.89	30	-9.11
	132322	1745	16QAM	1	0	22.34	22.07	30	-7.93
				1	14	22.40	22.13	30	-7.87
				8	4	20.92	20.65	30	-9.35
				15	0	21.28	21.01	30	-8.99
	132657	1778.5	16QAM	1	0	22.36	22.09	30	-7.91
				1	14	22.26	21.99	30	-8.01
				8	4	20.91	20.64	30	-9.36
				15	0	21.03	20.76	30	-9.24

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.04	22.77	30	-7.23
				1	24	22.81	22.54	30	-7.46
				12	6	22.07	21.80	30	-8.2
				25	0	22.23	21.96	30	-8.04
	132322	1745	QPSK	1	0	22.82	22.55	30	-7.45
				1	24	23.53	23.26	30	-6.74
				12	6	21.95	21.68	30	-8.32
				25	0	22.43	22.16	30	-7.84
	132647	1777.5	QPSK	1	0	23.20	22.93	30	-7.07
				1	24	23.20	22.93	30	-7.07
				12	6	22.04	21.77	30	-8.23
				25	0	22.28	22.01	30	-7.99
	131997	1712.5	16QAM	1	0	22.51	22.24	30	-7.76
				1	24	22.13	21.86	30	-8.14
				12	6	21.08	20.81	30	-9.19
				25	0	21.27	21.00	30	-9
	132322	1745	16QAM	1	0	22.40	22.13	30	-7.87
				1	24	22.58	22.31	30	-7.69
				12	6	21.11	20.84	30	-9.16
				25	0	21.43	21.16	30	-8.84
	132647	1777.5	16QAM	1	0	22.49	22.22	30	-7.78
				1	24	22.41	22.14	30	-7.86
				12	6	20.97	20.70	30	-9.3
				25	0	21.21	20.94	30	-9.06

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.18	22.91	30	-7.09
				1	49	23.02	22.75	30	-7.25
				25	12	22.21	21.94	30	-8.06
				50	0	22.36	22.09	30	-7.91
	132322	1745	QPSK	1	0	23.03	22.76	30	-7.24
				1	49	23.57	23.30	30	-6.7
				25	12	22.12	21.85	30	-8.15
				50	0	22.55	22.28	30	-7.72
	132622	1775	QPSK	1	0	23.33	23.06	30	-6.94
				1	49	23.41	23.14	30	-6.86
				25	12	22.16	21.89	30	-8.11
				50	0	22.31	22.04	30	-7.96
	132022	1715	16QAM	1	0	22.57	22.30	30	-7.7
				1	49	22.32	22.05	30	-7.95
				25	12	21.18	20.91	30	-9.09
				50	0	21.45	21.18	30	-8.82
	132322	1745	16QAM	1	0	22.50	22.23	30	-7.77
				1	49	22.70	22.43	30	-7.57
				25	12	21.17	20.90	30	-9.1
				50	0	21.46	21.19	30	-8.81
	132622	1775	16QAM	1	0	22.54	22.27	30	-7.73
				1	49	22.57	22.30	30	-7.7
				25	12	21.07	20.80	30	-9.2
				50	0	21.28	21.01	30	-8.99

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.33	23.06	30	-6.94
				1	74	23.11	22.84	30	-7.16
				36	18	22.39	22.12	30	-7.88
				75	0	22.45	22.18	30	-7.82
	132322	1745	QPSK	1	0	23.21	22.94	30	-7.06
				1	74	23.61	23.34	30	-6.66
				36	18	22.28	22.01	30	-7.99
				75	0	22.61	22.34	30	-7.66
	132597	1772.5	QPSK	1	0	23.53	23.26	30	-6.74
				1	74	23.52	23.25	30	-6.75
				36	18	22.19	21.92	30	-8.08
				75	0	22.40	22.13	30	-7.87
	132047	1717.5	16QAM	1	0	22.63	22.36	30	-7.64
				1	74	22.42	22.15	30	-7.85
				36	18	21.36	21.09	30	-8.91
				75	0	21.51	21.24	30	-8.76
	132322	1745	16QAM	1	0	22.60	22.33	30	-7.67
				1	74	22.73	22.46	30	-7.54
				36	18	21.32	21.05	30	-8.95
				75	0	21.57	21.30	30	-8.7
	132597	1772.5	16QAM	1	0	22.63	22.36	30	-7.64
				1	74	22.78	22.51	30	-7.49
				36	18	21.14	20.87	30	-9.13
				75	0	21.48	21.21	30	-8.79

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.18	22.91	30	-7.09
				1	99	23.51	23.24	30	-6.76
				50	25	22.50	22.23	30	-7.77
				100	0	22.63	22.36	30	-7.64
	132322	1745	QPSK	1	0	23.69	23.42	30	-6.58
				1	99	23.25	22.98	30	-7.02
				50	25	22.47	22.20	30	-7.8
				100	0	22.64	22.37	30	-7.63
	132572	1770	QPSK	1	0	23.71	23.44	30	-6.56
				1	99	23.55	23.28	30	-6.72
				50	25	22.26	21.99	30	-8.01
				100	0	22.55	22.28	30	-7.72
	132072	1720	16QAM	1	0	22.72	22.45	30	-7.55
				1	99	22.45	22.18	30	-7.82
				50	25	21.46	21.19	30	-8.81
				100	0	21.62	21.35	30	-8.65
	132322	1745	16QAM	1	0	22.66	22.39	30	-7.61
				1	99	22.90	22.63	30	-7.37
				50	25	21.42	21.15	30	-8.85
				100	0	21.66	21.39	30	-8.61
	132572	1770	16QAM	1	0	22.76	22.49	30	-7.51
				1	99	22.89	22.62	30	-7.38
				50	25	21.17	20.90	30	-9.1
				100	0	21.53	21.26	30	-8.74

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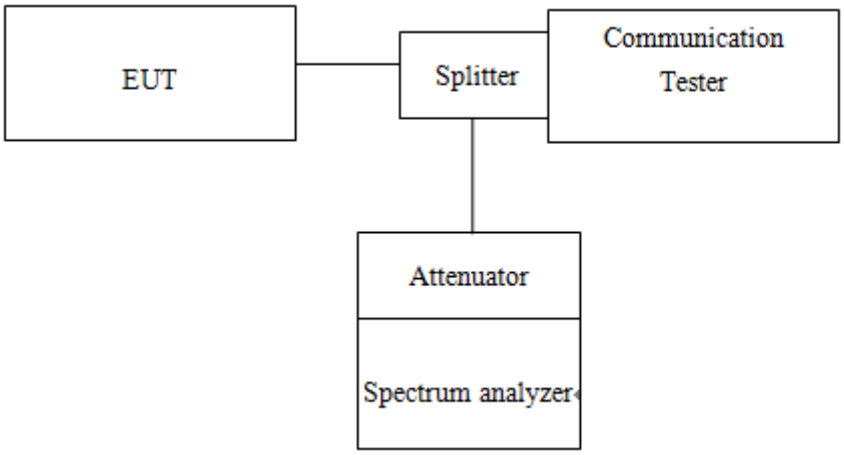
7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

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.

7.2. Test Set-up



7.3. Measurement Procedure

99% &26dB Bandwidth with detector peak

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% of emission BW, VBW= 3 times RBW, -26dBc display line was placed on the screen (or 26dB bandwidth), the occupied bandwidth is the delta frequency between the two points where the display line intersects the signal trace. Then set RBW to 99% bandwidth, RBW= 1%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

99% Bandwidth with detector sample

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW, -20dBc display line was placed on the screen (or 20dB bandwidth). Set RBW to 99% bandwidth, RBW= 1% ~ 5%, VBW= 3 RBW, with span > 2 * Signal BW, set % Power = 99%.

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7.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
Thermostatic/Hrgrosatic Chamber	TAICHY	MHG-150LF	930619	10/08/2018	10/07/2019
DC Block	PAS-TERNACK	PE8210	RF256	02/26/2019	02/25/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020

7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.072	4.063	4.056	4.611	4.612	4.608
1880.00	9400	4.062	4.062	4.068	4.591	4.600	4.613
1907.60	9538	4.069	4.062	4.055	4.617	4.618	4.636

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.059	4.070	4.060	4.629	4.598	4.600
1732.60	1413	4.059	4.062	4.062	4.609	4.613	4.607
1752.60	1513	4.062	4.072	4.060	4.609	4.622	4.596

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA V	HSDPA V	HSUPA V	WCDMA V	HSDPA V	HSUPA V
826.40	4132	4.051	4.051	4.052	4.616	4.603	4.613
836.60	4183	4.069	4.084	4.068	4.608	4.630	4.609
846.60	4233	4.047	4.059	4.052	4.617	4.587	4.613

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LTE BAND 4 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	19957	1.1189	1.1223	1.328	1.324
1732.5	20175	1.1264	1.1242	1.337	1.327
1754.3	20393	1.1168	1.1237	1.326	1.331

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.7293	2.7245	3.062	3.076
1732.5	20175	2.7255	2.7273	3.063	3.066
1753.5	20385	2.7390	2.7240	3.068	3.060

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5396	4.5163	5.139	5.073
1732.5	20175	4.5414	4.5197	5.169	5.101
1752.5	20375	4.5346	4.5226	5.137	5.105

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	9.0820	9.0460	10.536	10.489
1732.5	20175	9.0927	9.0620	10.686	10.525
1750.0	20350	9.0870	9.0559	10.542	10.442

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.519	13.546	15.634	15.738
1732.5	20175	13.545	13.516	15.569	15.696
1747.5	20325	13.539	13.513	15.712	15.737

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	18.035	18.011	20.364	20.169
1732.5	20175	17.979	18.055	20.165	20.223
1745.0	20300	17.993	18.026	20.018	20.050

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.1160	1.1164	1.329	1.326
836.5	20525	1.1114	1.1219	1.326	1.328
848.3	20643	1.1127	1.1117	1.329	1.322

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7401	2.7227	3.069	3.054
836.5	20525	2.7320	2.7254	3.063	3.082
847.5	20635	2.7213	2.7216	3.056	3.030

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5397	4.4980	5.140	5.066
836.5	20525	4.5443	4.5180	5.144	5.043
846.5	20625	4.5186	4.5211	5.102	5.100

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0760	9.0471	10.488	10.442
836.5	20525	9.0967	9.0816	10.606	10.617
844.0	20600	8.9833	9.0096	10.438	10.466

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LTE BAND 7 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2502.5	20775	4.5213	4.5255	5.094	5.096
2535.0	21100	4.5223	4.5315	5.081	5.101
2567.5	21425	4.5227	4.5225	5.076	5.097

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	9.0931	9.0775	10.606	10.500
2535.0	21100	9.0666	9.0638	10.536	10.494
2565.0	21400	9.0735	9.0619	10.529	10.574

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.534	13.531	15.234	15.632
2535.0	21100	13.541	13.510	15.772	15.699
2562.5	21375	13.556	13.506	15.781	15.570

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	18.028	18.014	20.101	20.368
2535.0	21100	17.967	17.968	19.896	20.050
2560.0	21350	17.988	17.987	19.976	20.300

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.1121	1.1153	1.329	1.329
707.5	23095	1.1172	1.1264	1.325	1.332
715.3	23173	1.1187	1.1236	1.325	1.333

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7156	2.7194	3.048	3.049
707.5	23095	2.7260	2.7254	3.050	3.053
714.5	23165	2.7212	2.7216	3.053	3.047

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5025	4.5001	5.066	5.038
707.5	23095	4.5310	4.5177	5.084	5.068
713.5	23155	4.5141	4.5065	5.079	5.091

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0754	9.0811	10.523	10.570
707.5	23095	9.1300	9.1352	10.611	10.620
711.0	23130	9.0333	9.0220	10.514	10.468

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.5160	4.5332	5.091	5.057
782.0	23230	4.5003	4.5127	5.074	5.071
784.5	23255	4.5184	4.5315	5.105	5.136

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	9.030	9.035	10.496	10.464

LTE BAND 17 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
706.5	23755	4.5256	4.5255	5.092	5.112
710.0	23790	4.5090	4.5323	5.092	5.095
713.5	23825	4.4908	4.5059	5.036	5.027

LTE BAND 17 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
709.0	23780	9.0703	9.0782	10.524	10.621
710.0	23790	9.0707	9.7794	10.560	10.941
711.0	23800	9.0174	9.0290	10.354	10.461

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LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.1125	1.1175	1.325	1.316
836.5	26915	1.1101	1.1062	1.327	1.316
848.3	27033	1.1073	1.1154	1.325	1.320

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.7229	2.7310	3.053	3.057
836.5	26915	2.7291	2.7311	3.041	3.068
847.5	27025	2.7258	2.7365	3.043	3.065

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5285	4.5356	5.136	5.118
836.5	26915	4.5293	4.5445	5.152	5.119
846.5	27015	4.5204	4.5348	5.109	5.126

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	26840	9.0621	9.0913	10.518	10.578
836.5	26915	9.1127	9.1175	10.636	10.674
844.0	26990	9.0285	9.0558	10.416	10.493

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.572	13.557	15.804	15.635
836.5	26915	13.608	13.621	15.755	15.852
841.5	26965	13.509	13.502	15.196	15.338

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
814.7	26697	1.1062	1.1125	1.332	1.327
819.0	26740	1.1117	1.1144	1.323	1.324
823.3	26783	1.1118	1.1139	1.325	1.327

LTE BAND 26 for part 90S Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
815.5	26705	2.7245	2.7242	3.063	3.059
819.0	26740	2.7201	2.7216	3.049	3.065
822.5	26775	2.7218	2.7176	3.056	3.052

LTE BAND 26 for part 90S Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
816.5	26715	4.5418	4.5278	5.116	5.083
819.0	26740	4.5331	4.5296	5.085	5.069
821.5	26765	4.5160	4.5338	5.044	5.045

LTE BAND 26 for part 90S Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
819.0	26740	9.1358	9.1222	10.641	10.557

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LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.5292	4.5280	5.067	5.078
2310.0	27710	4.5225	4.5328	5.069	5.063
2312.5	27735	4.5092	4.5346	5.011	5.043

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	9.0635	9.0480	10.538	10.490

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5265	4.5427	5.264	5.746
2595.0	38000	4.5179	4.5355	5.084	5.447
2617.5	38225	4.5180	4.5363	5.117	5.171

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	9.0324	9.0413	10.478	10.377
2595.0	38000	9.0257	9.0308	10.584	10.496
2615.0	38200	9.0351	9.0300	10.403	10.406

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.546	13.599	16.090	15.829
2595.0	38000	13.577	13.569	16.067	15.907
2612.5	38175	13.552	13.614	15.824	16.005

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	17.978	17.984	20.529	19.791
2595.0	38000	17.978	18.034	20.824	20.493
2610.0	38150	17.975	17.993	19.962	19.877

LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.5306	4.5190	5.070	5.170
2593.0	40620	4.5300	4.5279	5.112	5.486
2687.5	41565	4.5395	4.5503	5.282	5.664

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	9.1345	9.0516	10.620	10.565
2593.0	40620	9.1215	9.0798	10.892	10.599
2685.0	41540	9.1212	9.0717	11.276	10.535

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.513	13.588	15.504	15.695
2593.0	40620	13.542	13.577	15.710	15.814
2682.5	41515	13.558	13.583	16.074	16.016

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.990	17.978	20.021	20.168
2593.0	40620	17.944	18.044	20.063	20.204
2680.0	41490	17.928	17.957	19.809	20.854

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LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.1102	1.1130	1.336	1.330
1745.0	132322	1.1079	1.1093	1.333	1.327
1779.3	132665	1.1150	1.1168	1.328	1.340

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.7304	2.7255	3.063	3.062
1745.0	132322	2.7239	2.7312	3.056	3.057
1778.5	132657	2.7214	2.7323	3.049	3.059

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5121	4.5214	5.121	5.116
1745.0	132322	4.5209	4.5214	5.048	5.087
1777.5	132647	4.5249	4.5179	5.083	5.071

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	9.0955	9.1015	10.570	10.552
1745.0	132322	9.0713	9.0966	10.500	10.516
1775.0	132622	9.0673	9.0764	10.528	10.456

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.5090	13.5030	15.393	15.600
1745.0	132322	13.5230	13.5210	15.377	15.885
1772.5	132597	13.4870	13.4680	15.321	15.494

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	18.0210	18.0110	20.249	20.126
1745.0	132322	17.9670	17.9780	20.107	20.191
1770.0	132572	17.9730	17.9540	20.287	20.090

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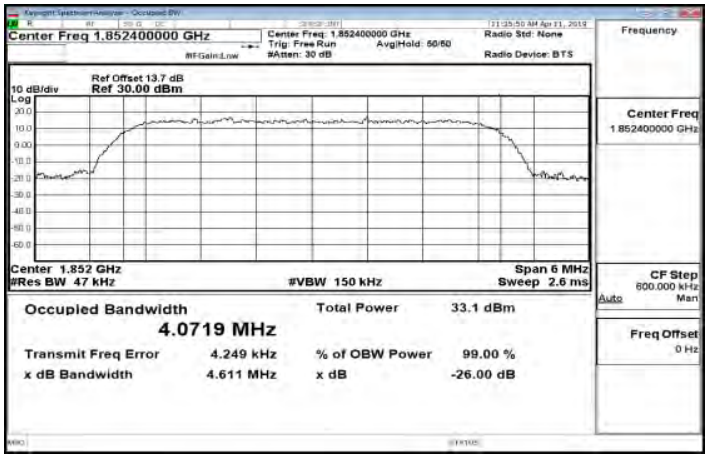

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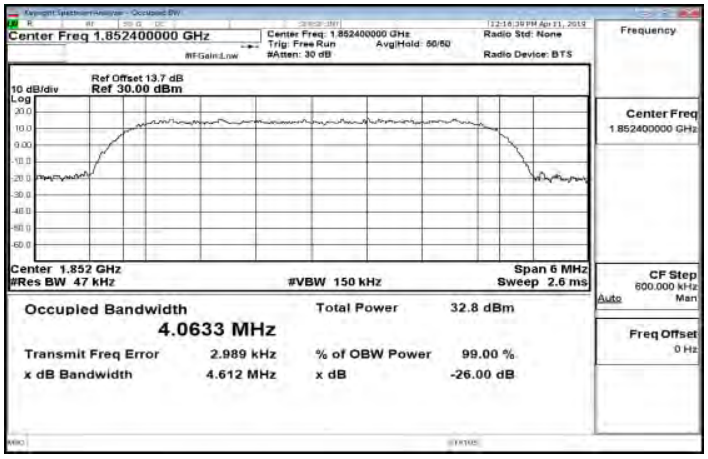

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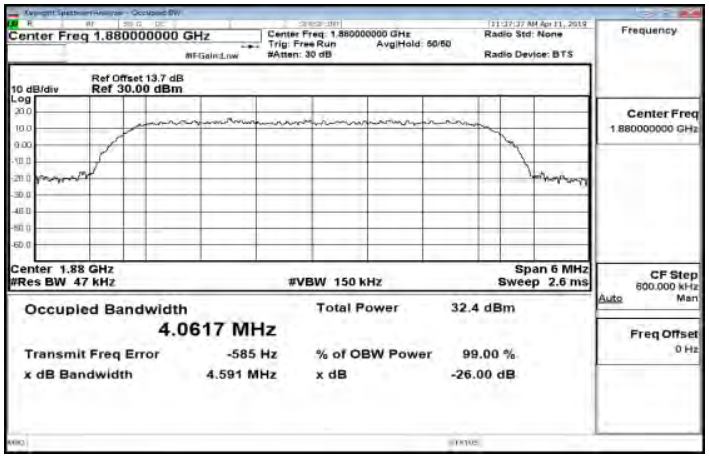

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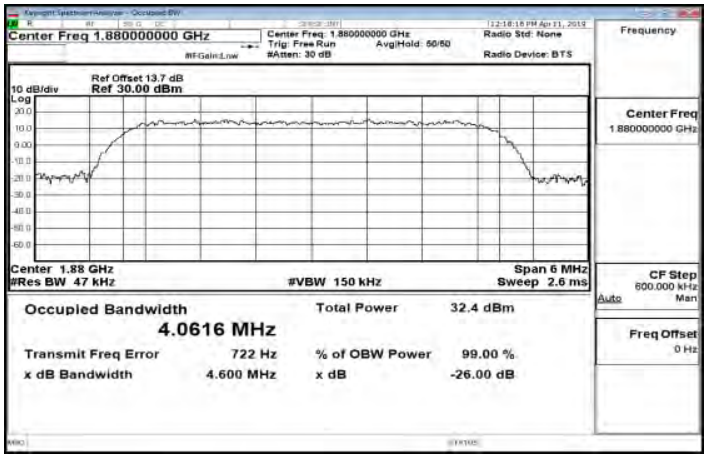

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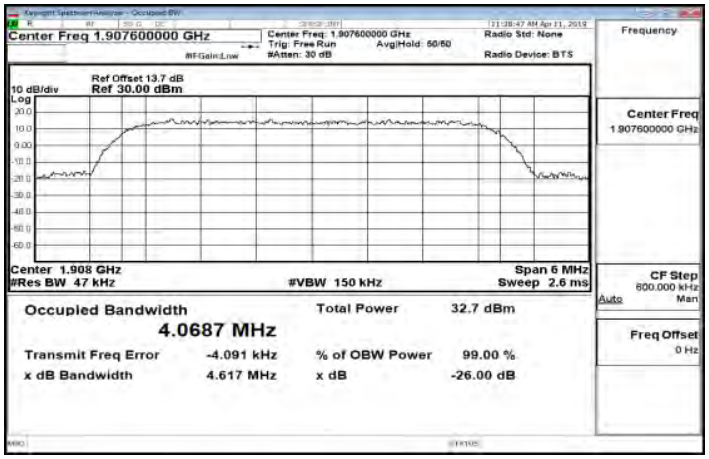

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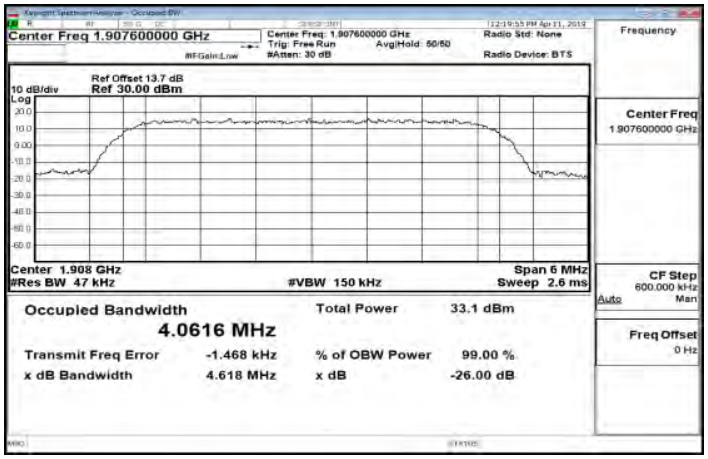

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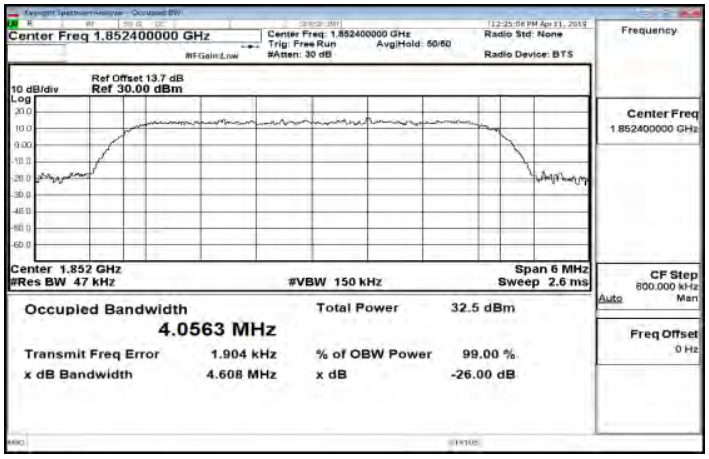

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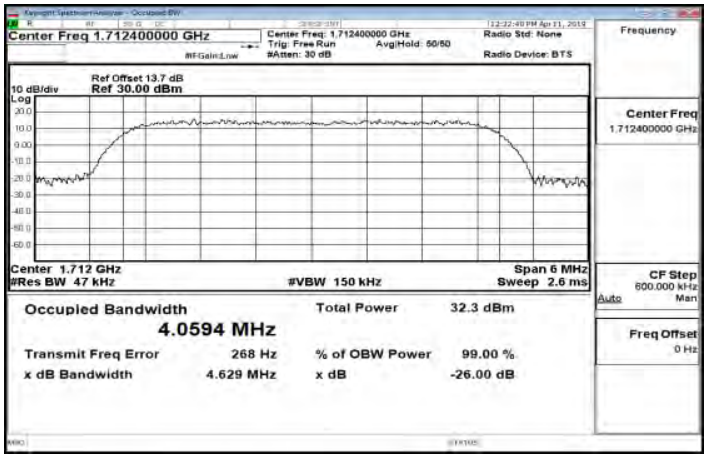

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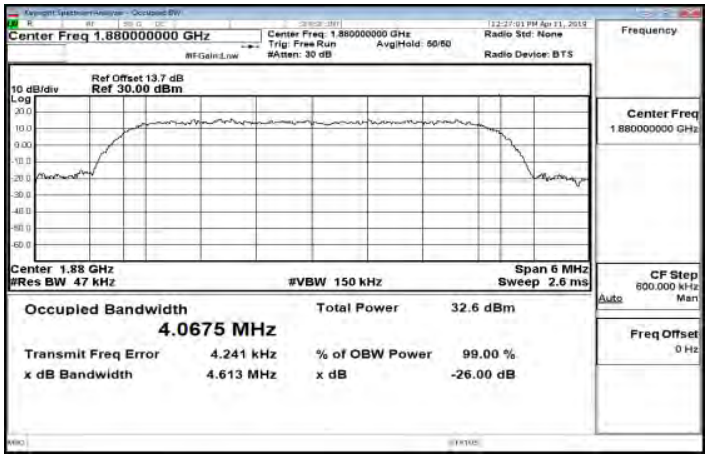

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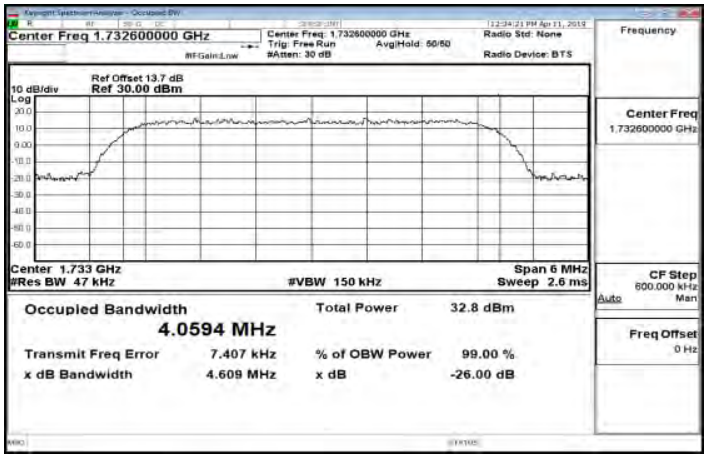

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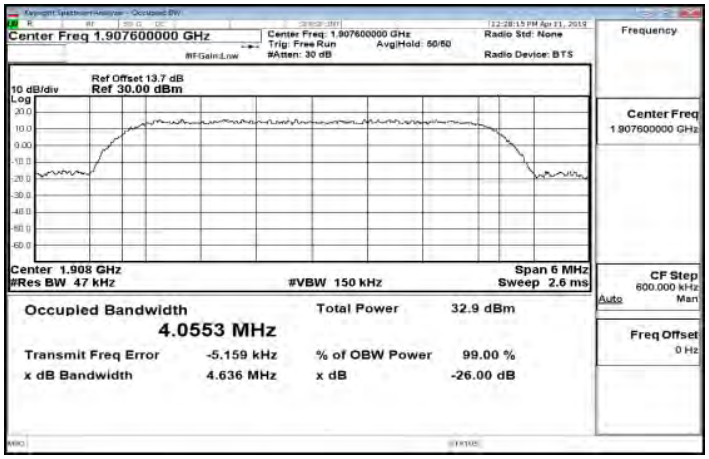

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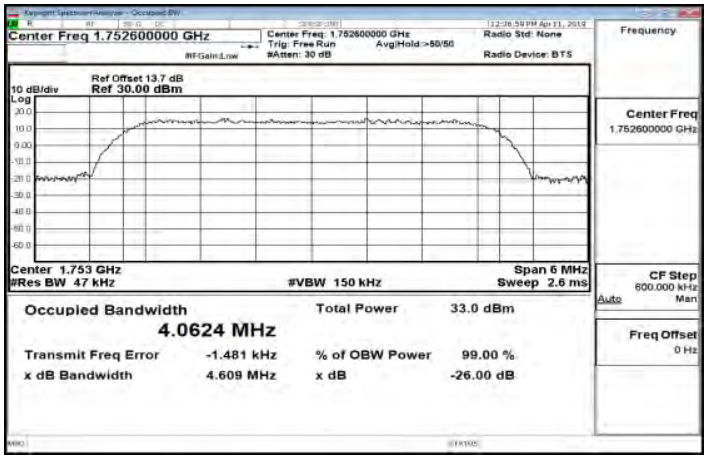

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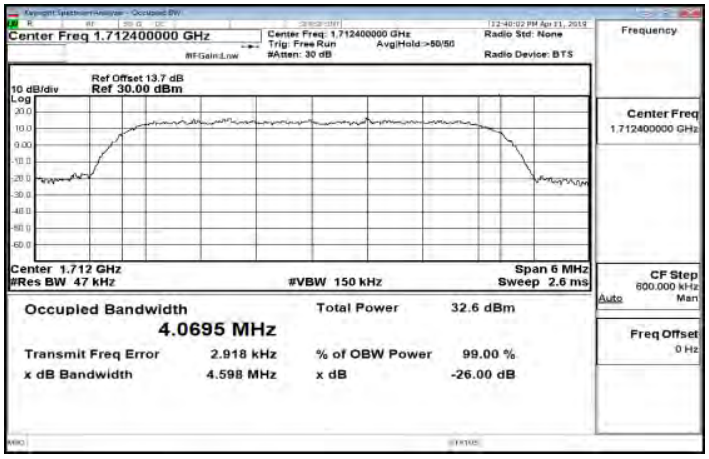
HSDPA_B4_LowCH1312-1712.4



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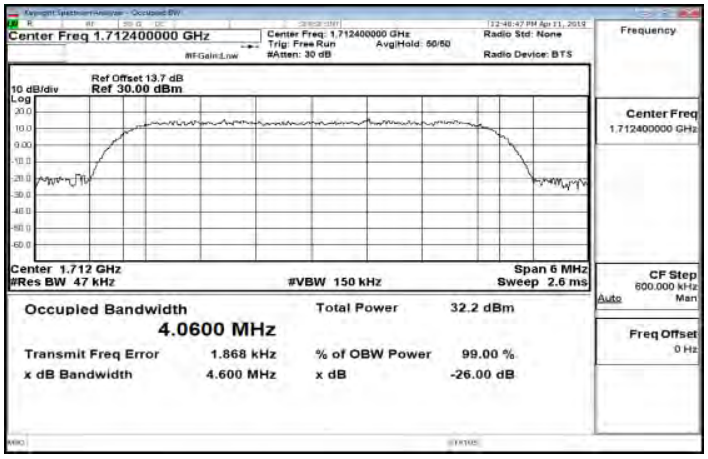

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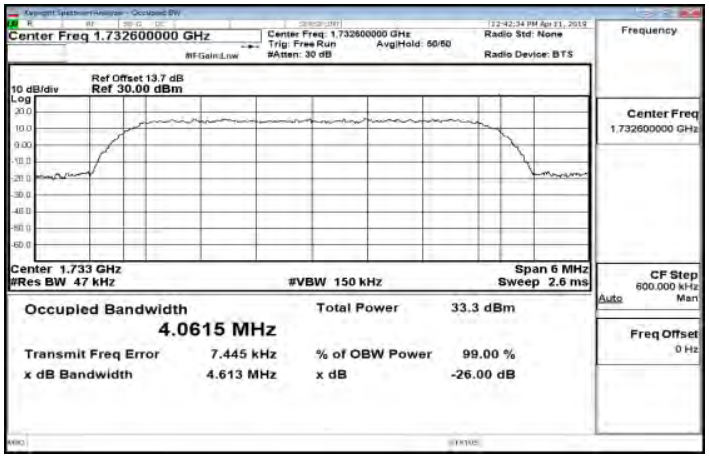

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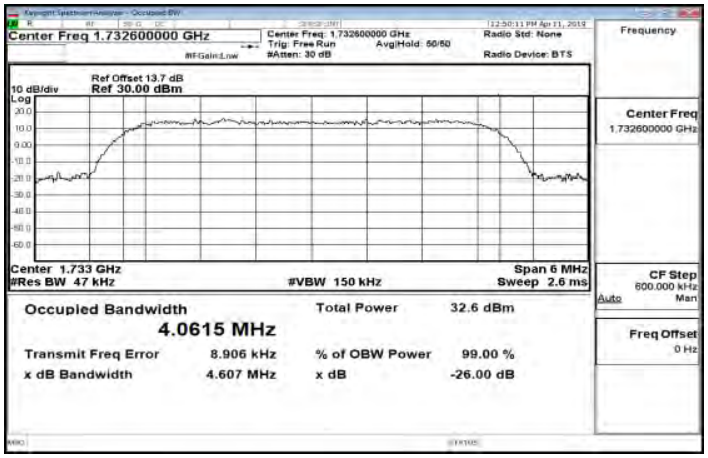

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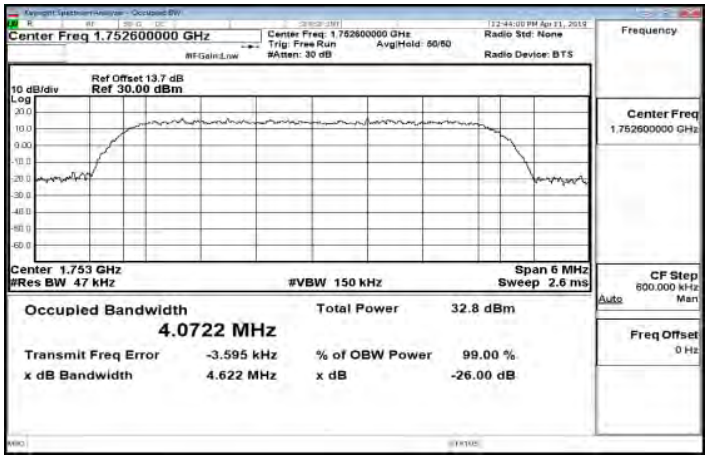

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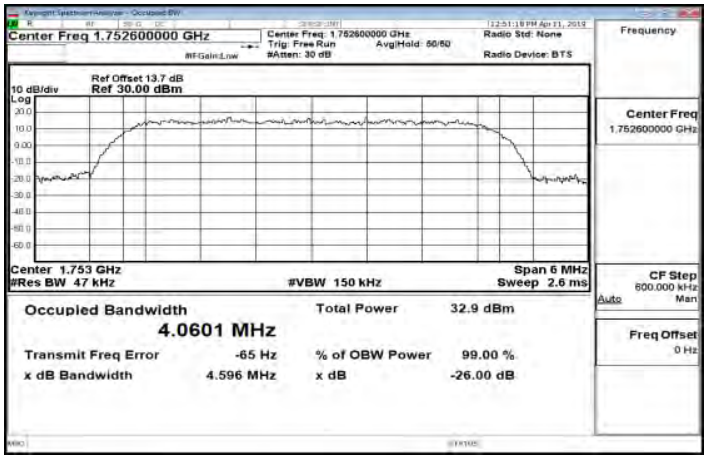

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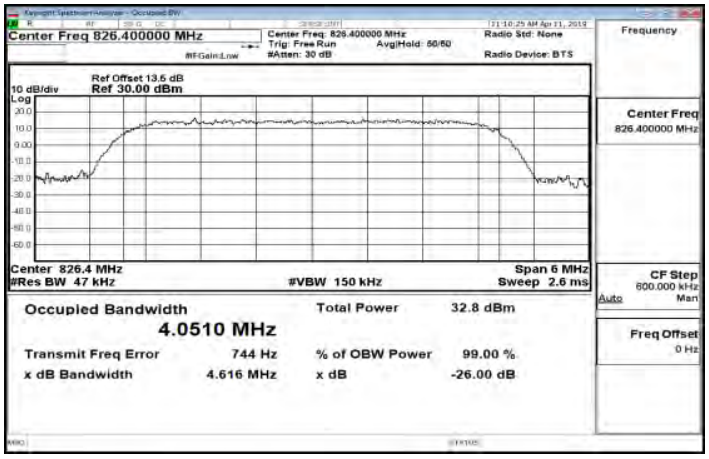
WCDMA_B5_LowCH4132-826.4



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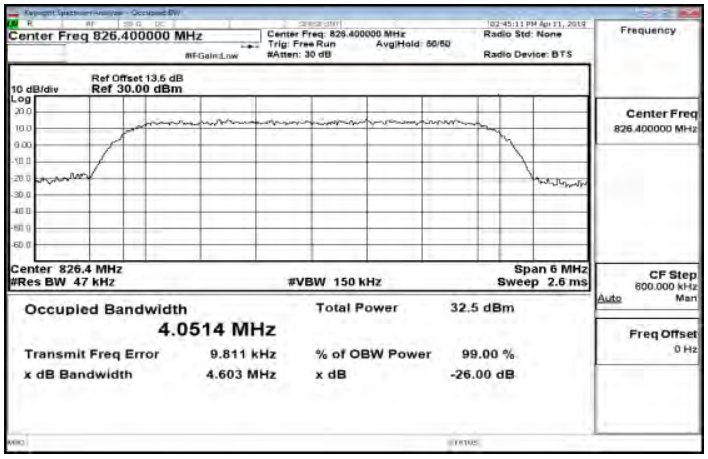

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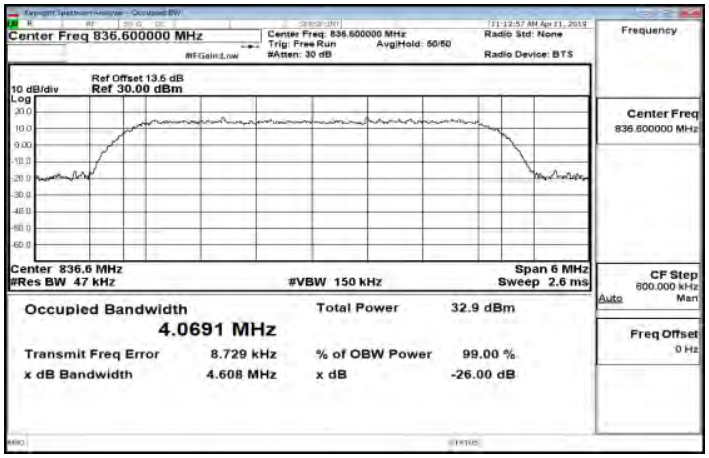

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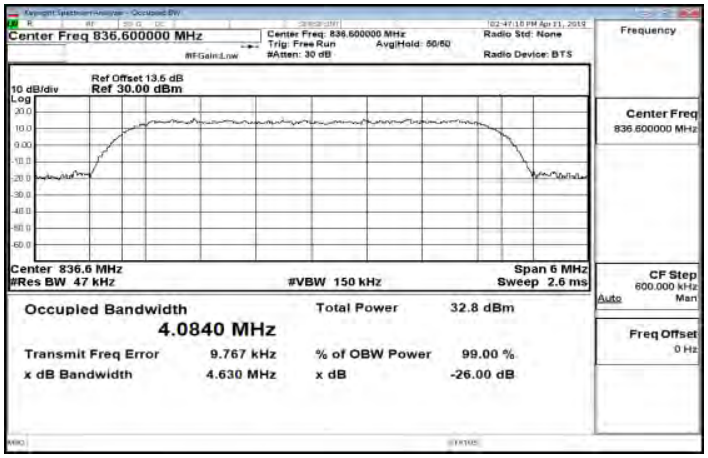

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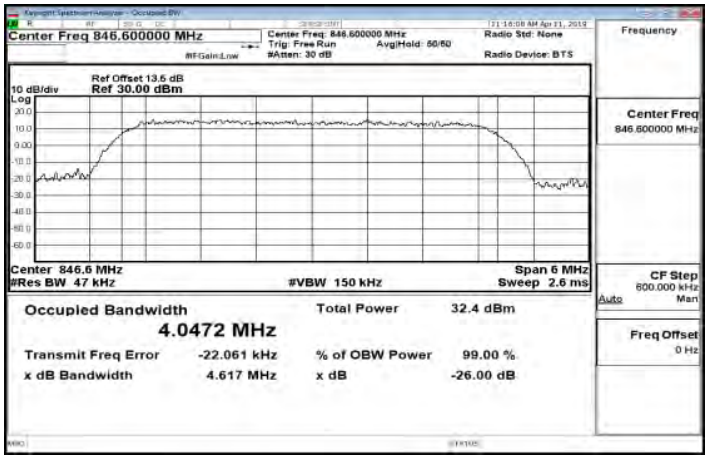

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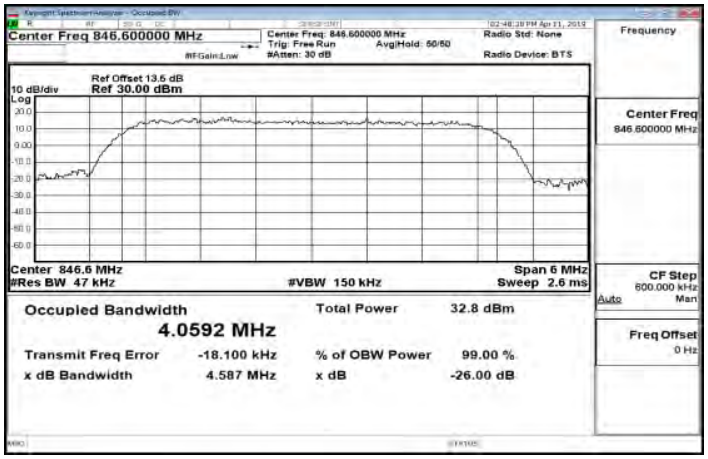

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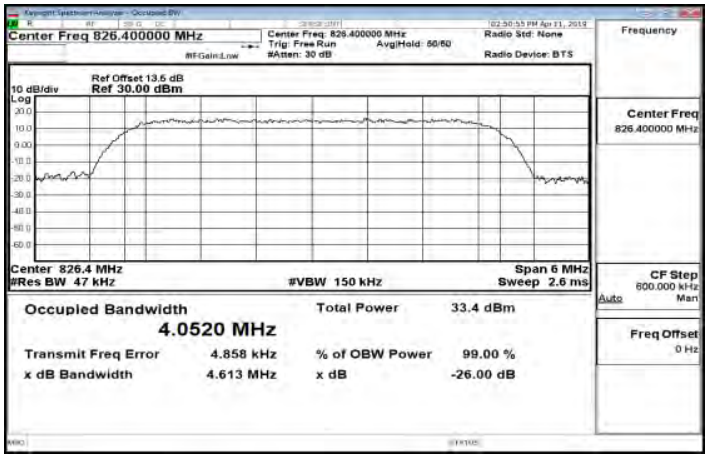
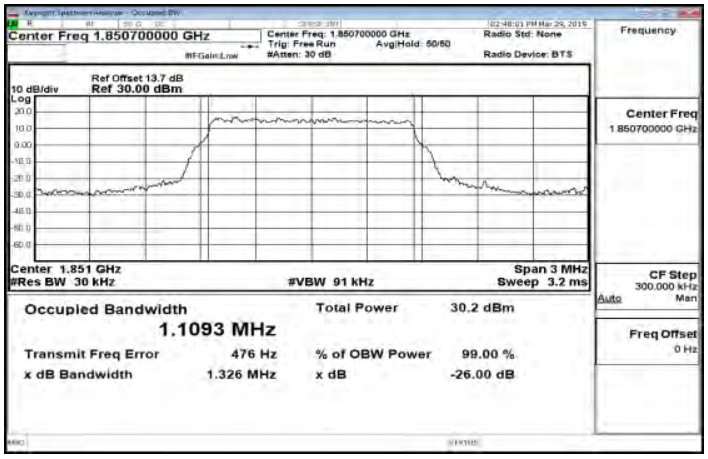
HSUPA_B5_LowCH4132-826.4



Band2_1_4MHz_QPSK_6_0_Main_LowCH18607-1850.7



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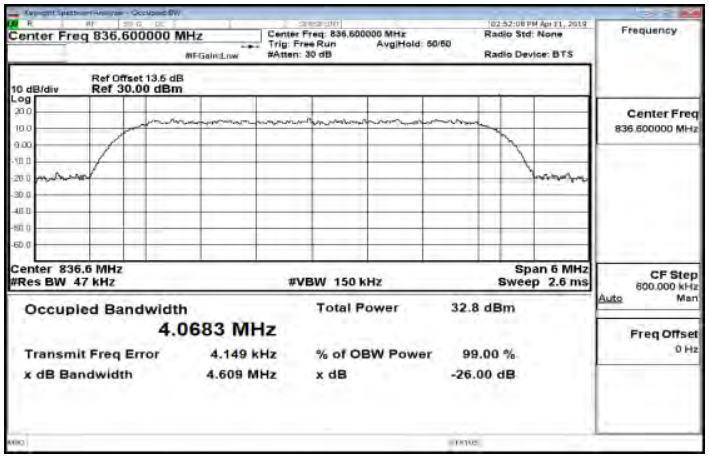
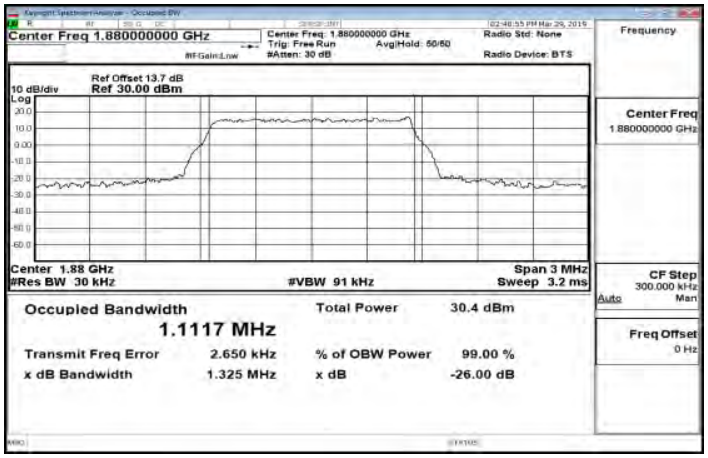


Band2_1_4MHz_QPSK_6_0_Main_MidCH18900-1880



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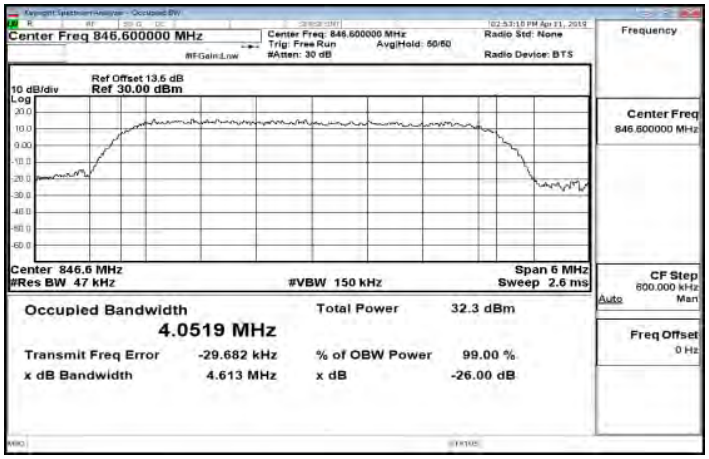
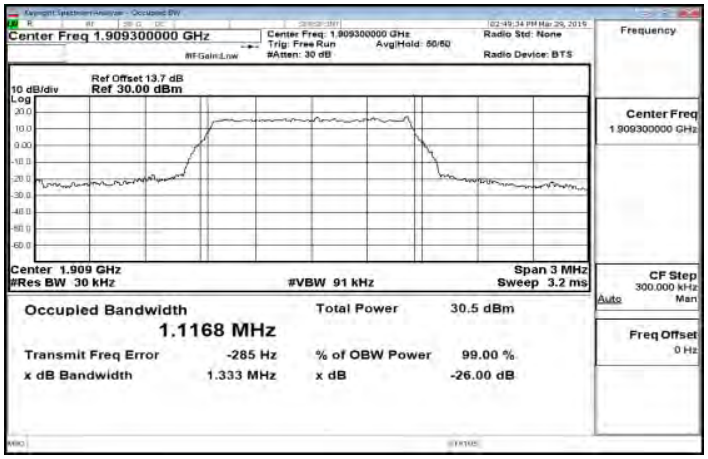


Band2_1_4MHz_QPSK_6_0_Main_HighCH19193-1909.3



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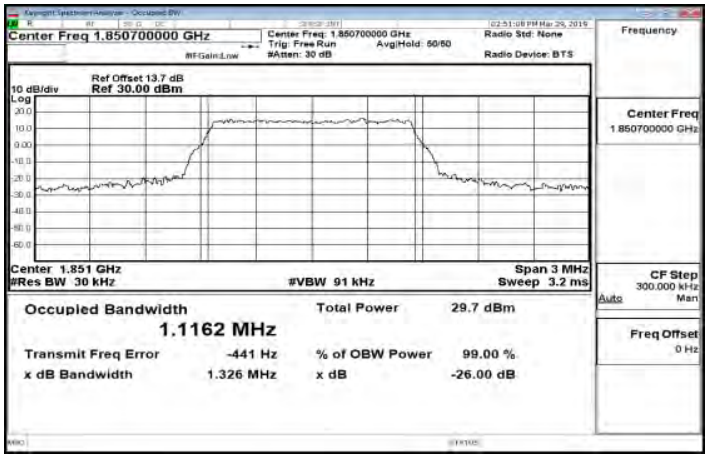
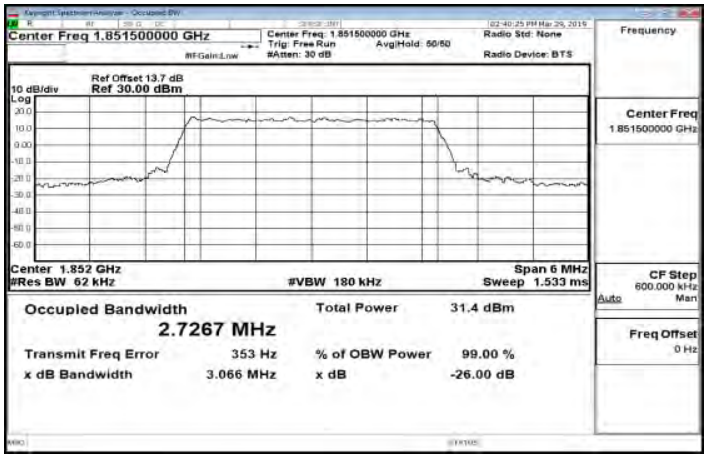
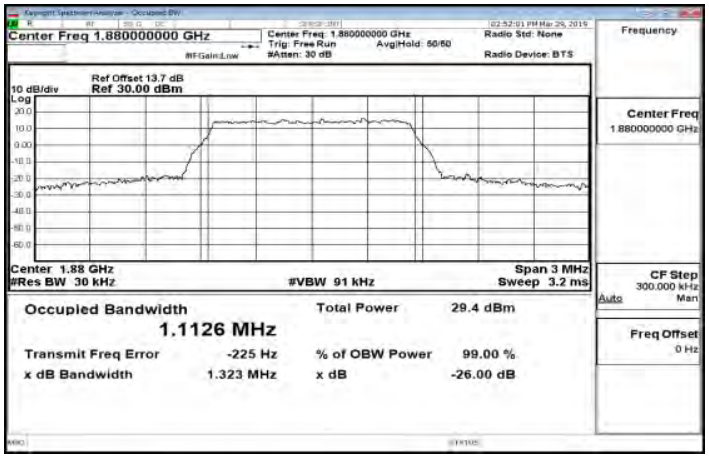
Band2_1_4MHz_16QAM_6_0_Main_LowCH18607-1850.7



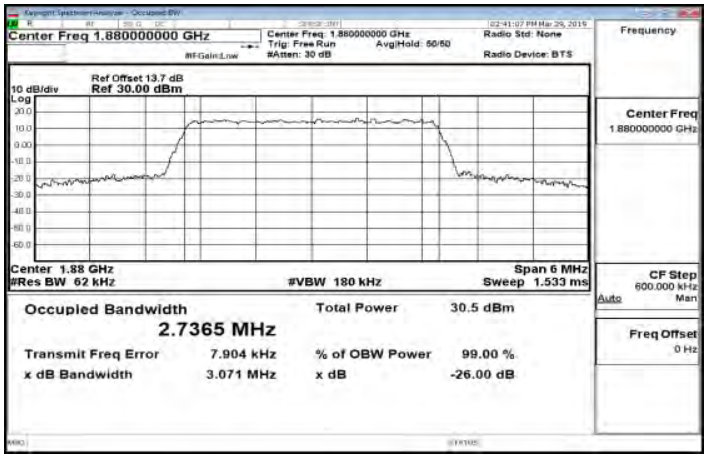
Band2_3MHz_QPSK_15_0_Main_LowCH18615-1851.5



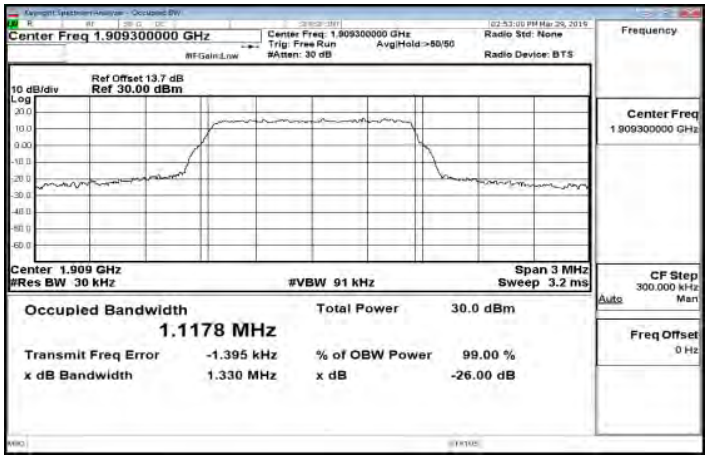
Band2_1_4MHz_16QAM_6_0_Main_MidCH18900-1880



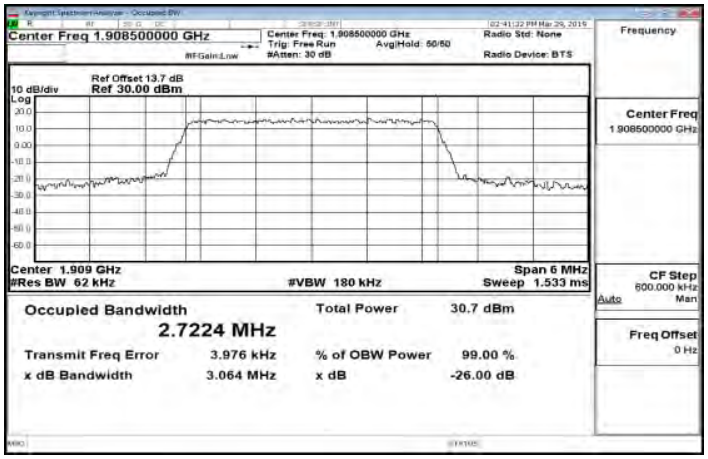
Band2_3MHz_QPSK_15_0_Main_MidCH18900-1880



Band2_1_4MHz_16QAM_6_0_Main_HighCH19193-1909.3



Band2_3MHz_QPSK_15_0_Main_HighCH19185-1908.5



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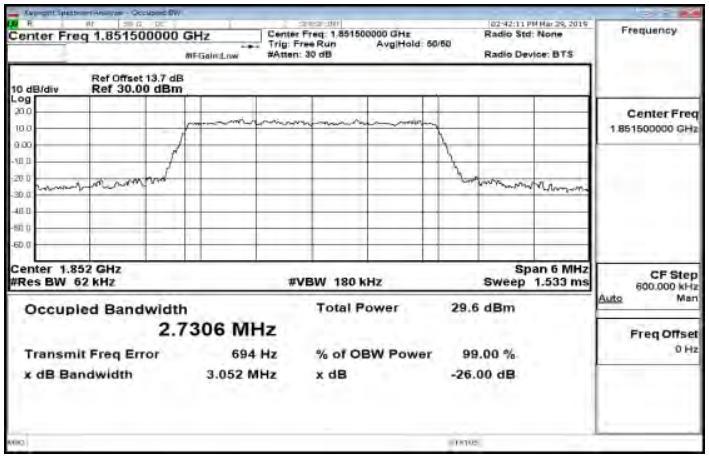
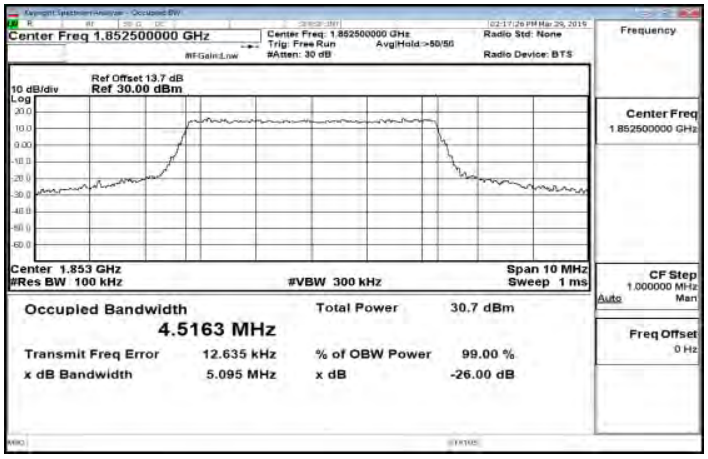
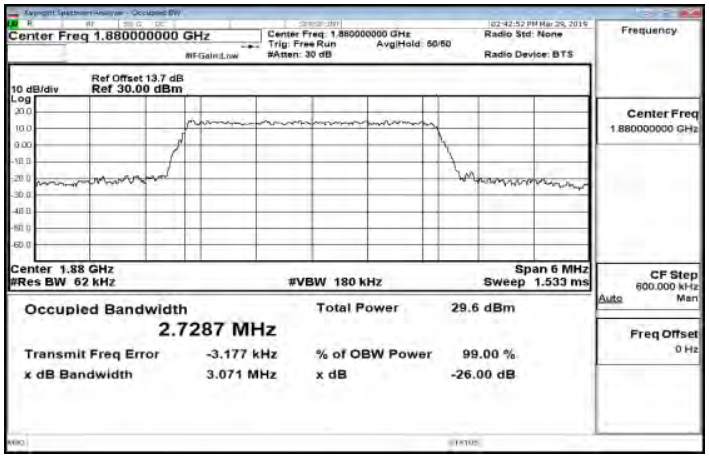
Band2_3MHz_16QAM_15_0_Main_LowCH18615-1851.5



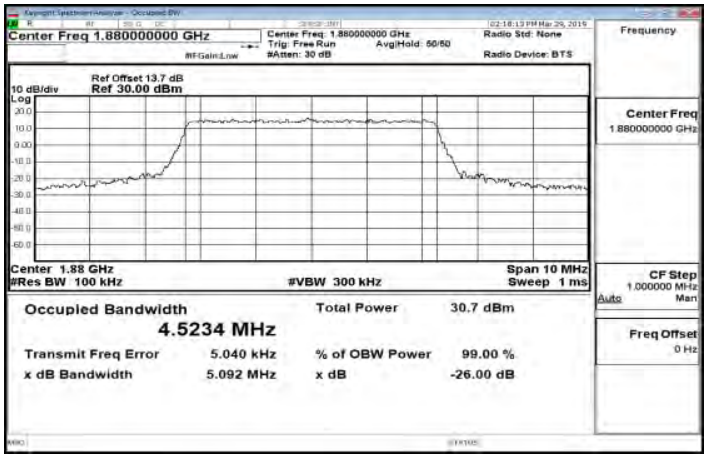
Band2_5MHz_QPSK_25_0_Main_LowCH18625-1852.5



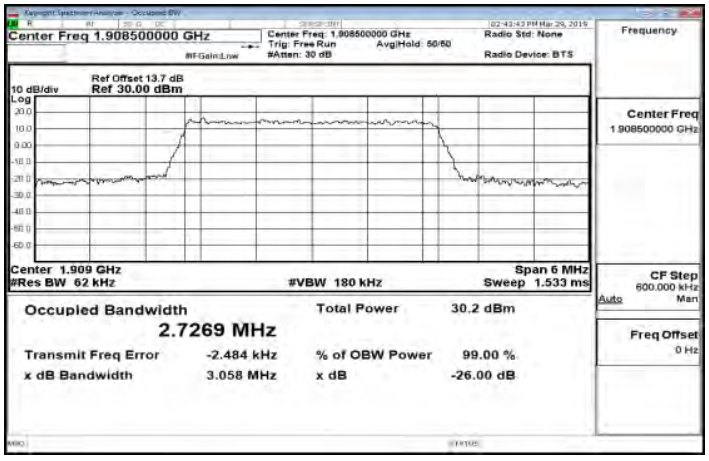
Band2_3MHz_16QAM_15_0_Main_MidCH18900-1880



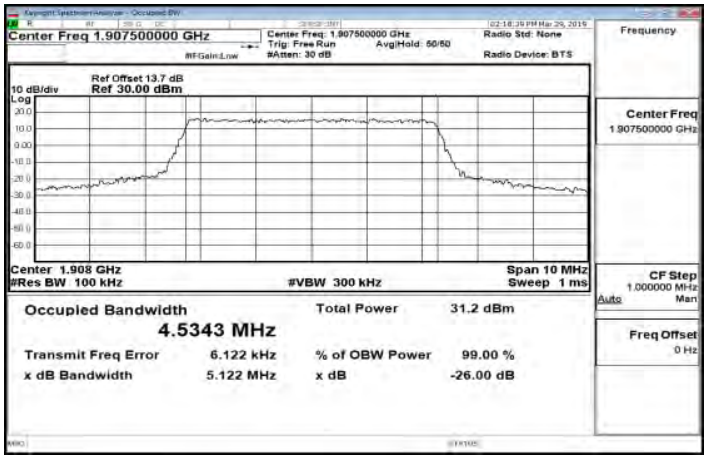
Band2_5MHz_QPSK_25_0_Main_MidCH18900-1880



Band2_3MHz_16QAM_15_0_Main_HighCH19185-1908.5



Band2_5MHz_QPSK_25_0_Main_HighCH19175-1907.5



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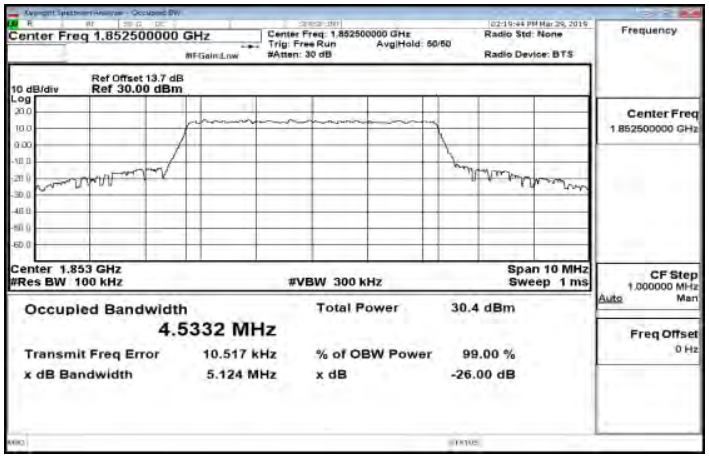
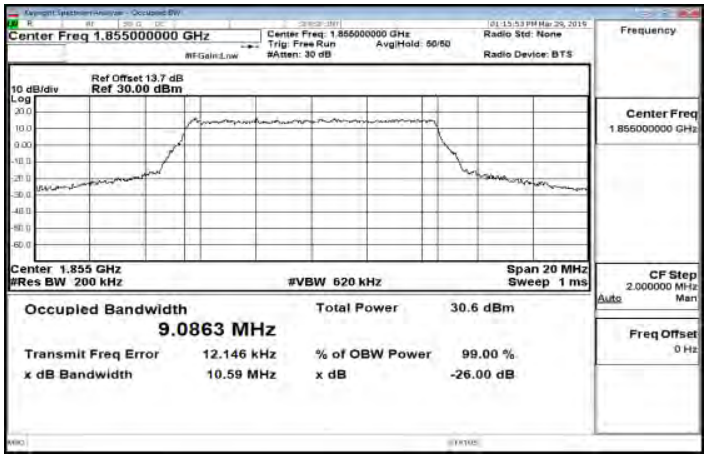
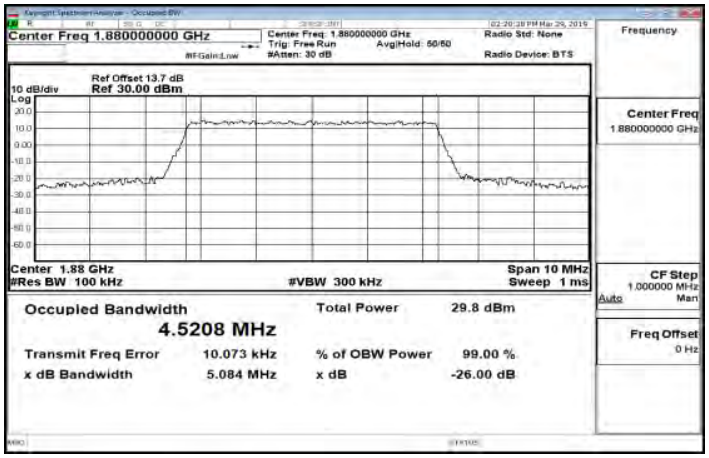
Band2_5MHz_16QAM_25_0_Main_LowCH18625-1852.5



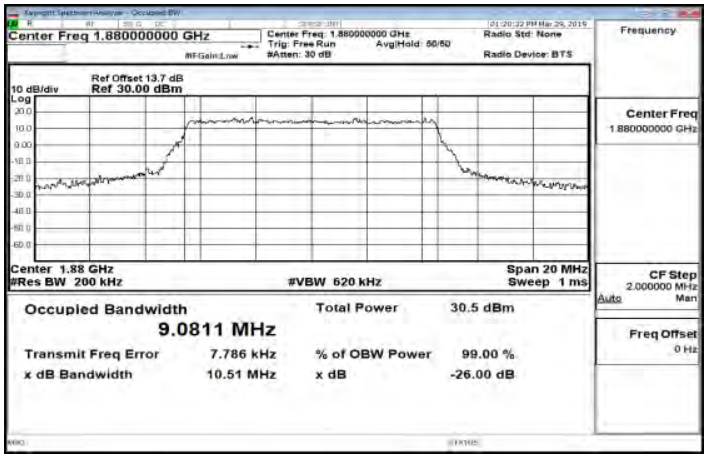
Band2_10MHz_QPSK_50_0_Main_LowCH18650-1855



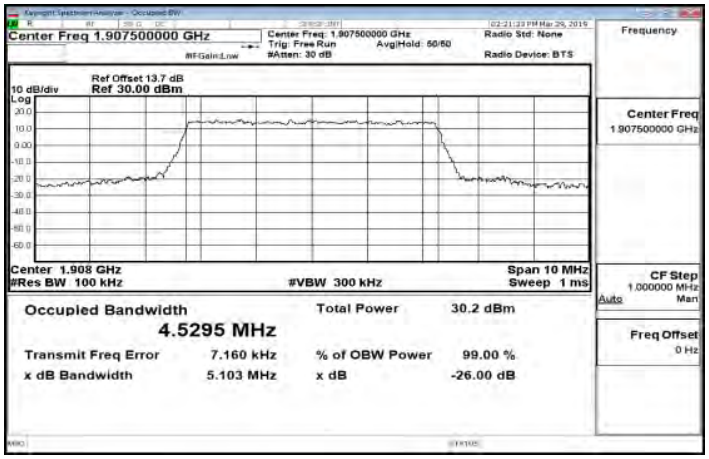
Band2_5MHz_16QAM_25_0_Main_MidCH18900-1880



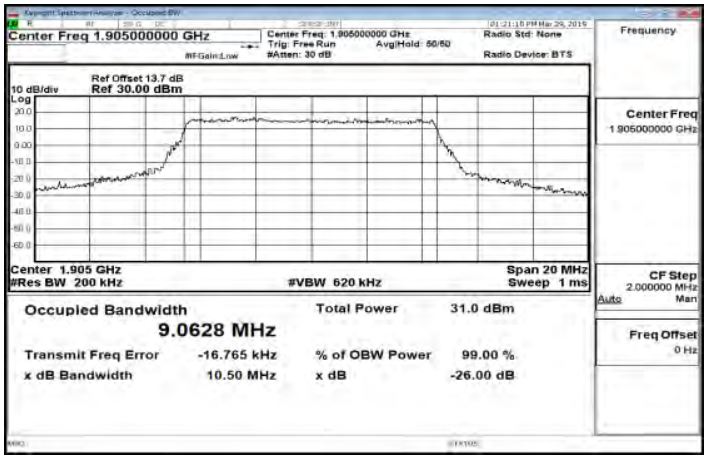
Band2_10MHz_QPSK_50_0_Main_MidCH18900-1880



Band2_5MHz_16QAM_25_0_Main_HighCH19175-1907.5



Band2_10MHz_QPSK_50_0_Main_HighCH19150-1905



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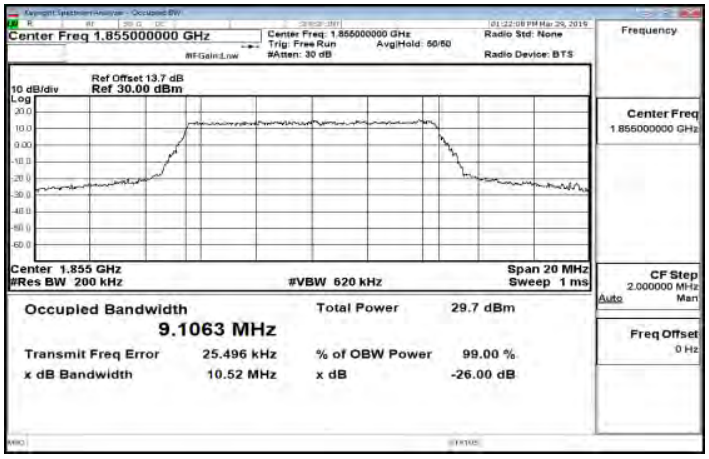
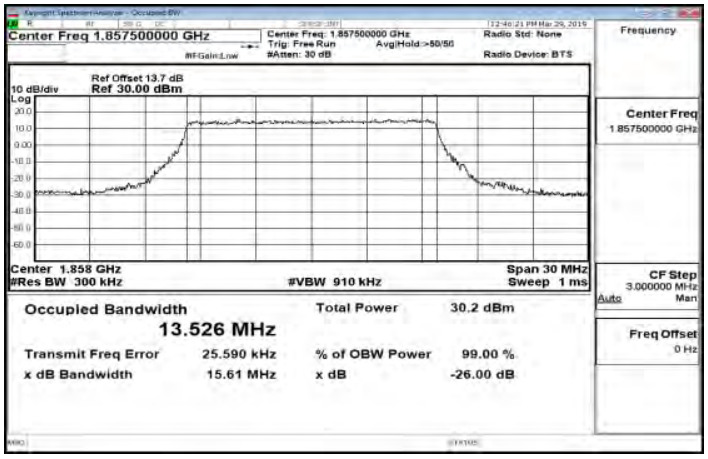
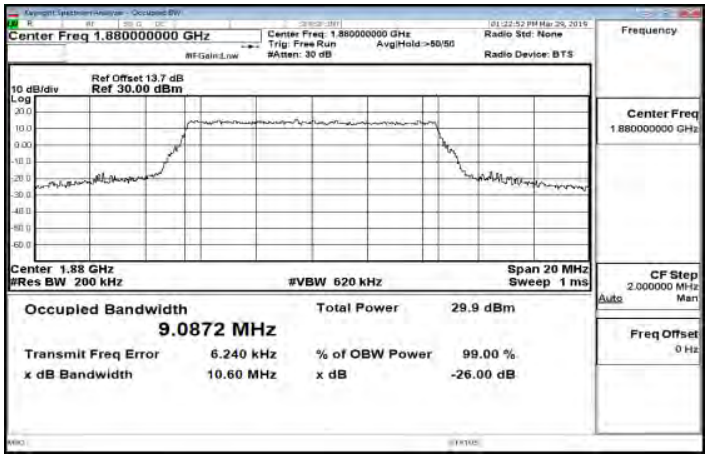
Band2_10MHz_16QAM_50_0_Main_LowCH18650-1855



Band2_15MHz_QPSK_75_0_Main_LowCH18675-1857.5



Band2_10MHz_16QAM_50_0_Main_MidCH18900-1880



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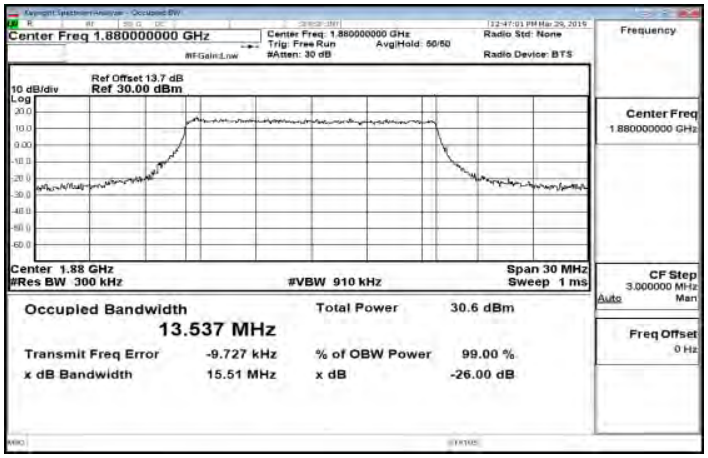
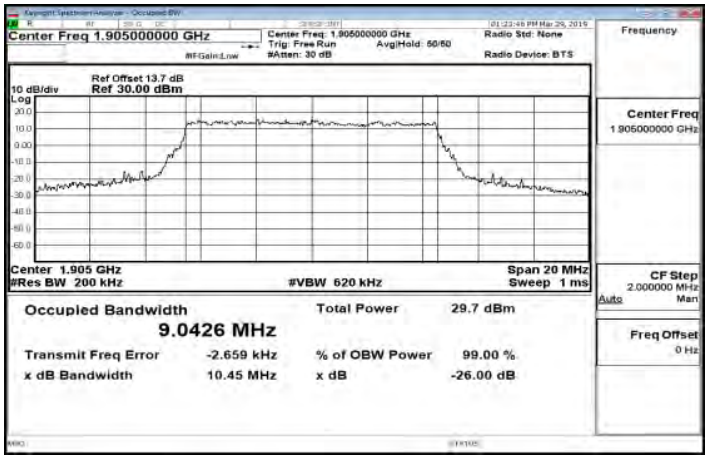
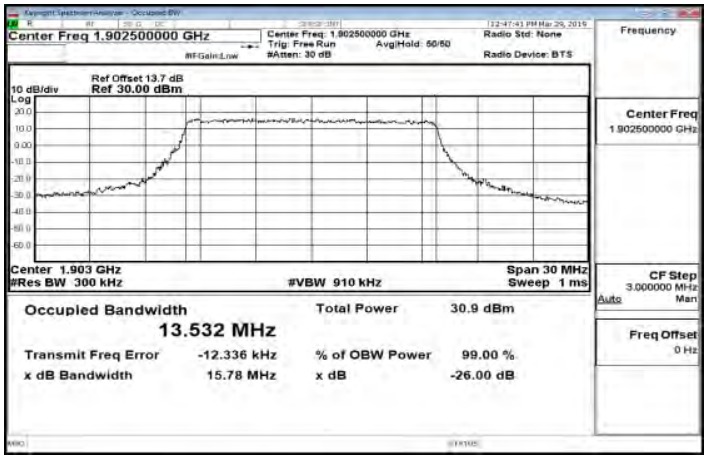


Band2_10MHz_16QAM_50_0_Main_HighCH19150-1905



Band2_15MHz_QPSK_75_0_Main_HighCH19125-1902.5



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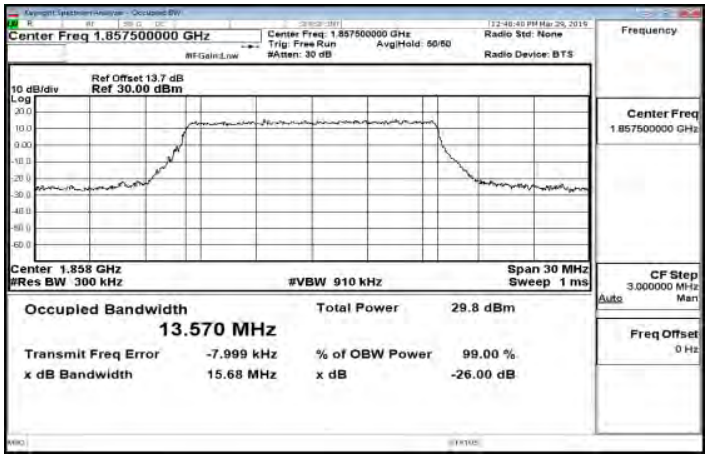
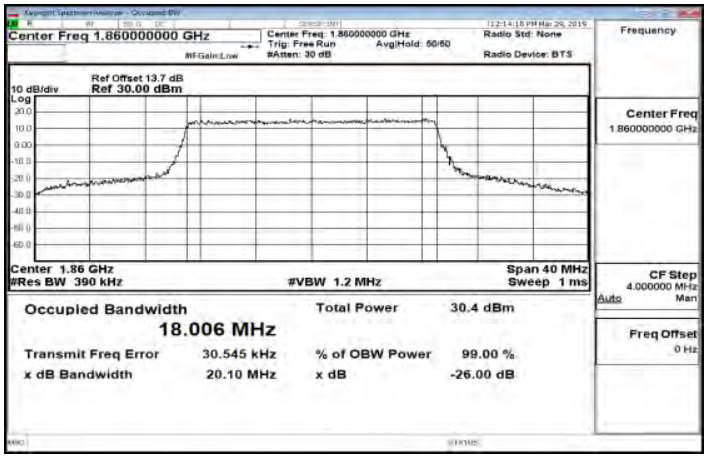
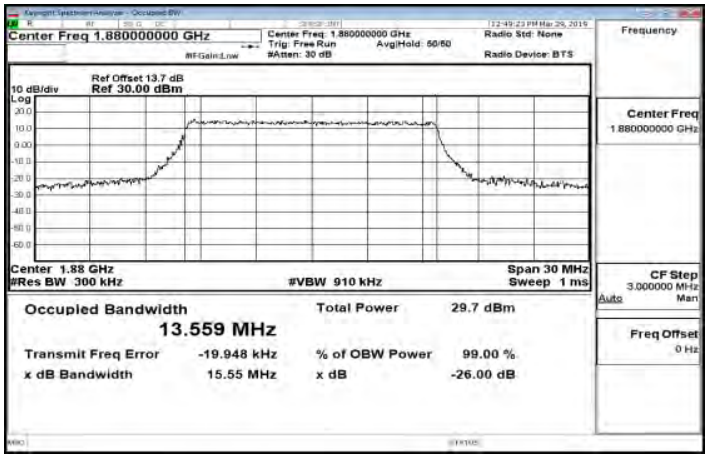
Band2_15MHz_16QAM_75_0_Main_LowCH18675-1857.5



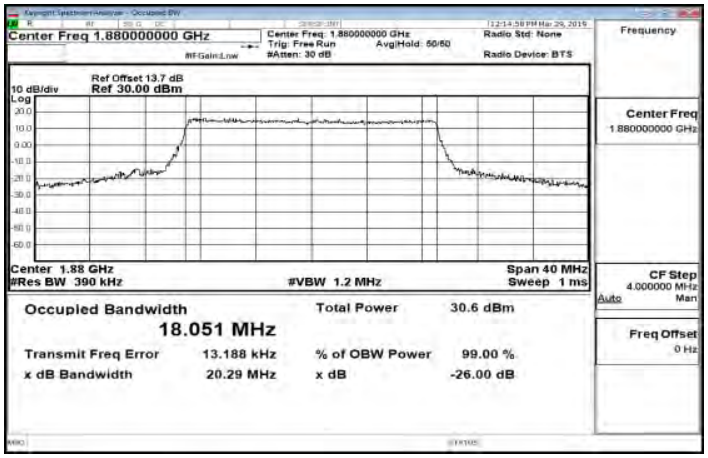
Band2_20MHz_QPSK_100_0_Main_LowCH18700-1860



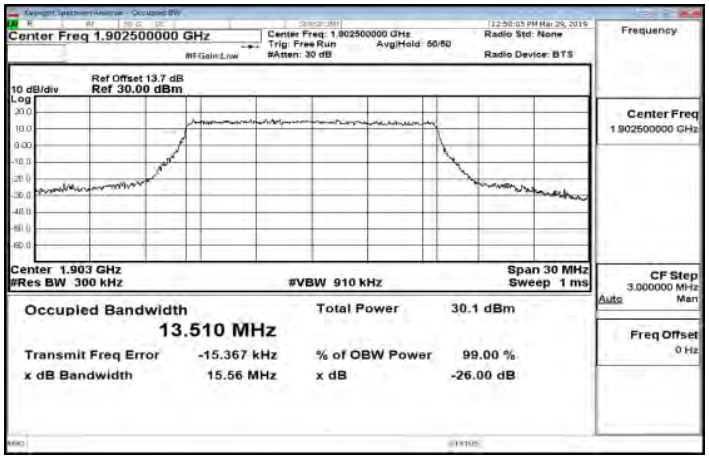
Band2_15MHz_16QAM_75_0_Main_MidCH18900-1880



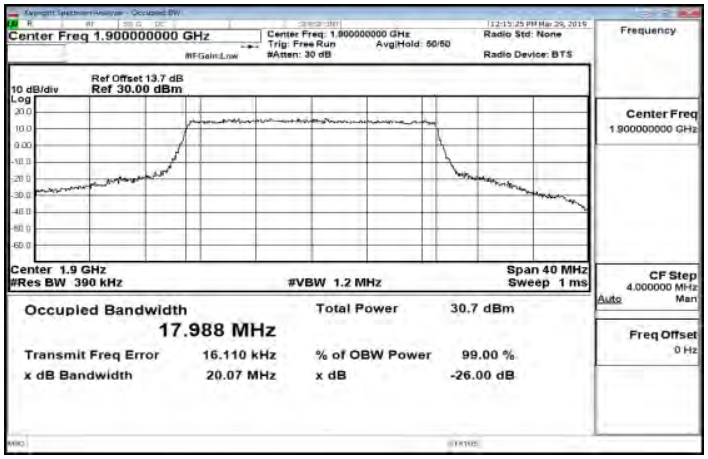
Band2_20MHz_QPSK_100_0_Main_MidCH18900-1880



Band2_15MHz_16QAM_75_0_Main_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



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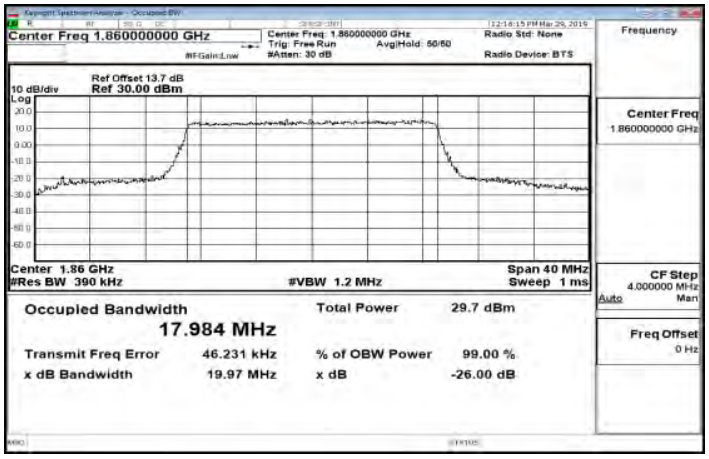
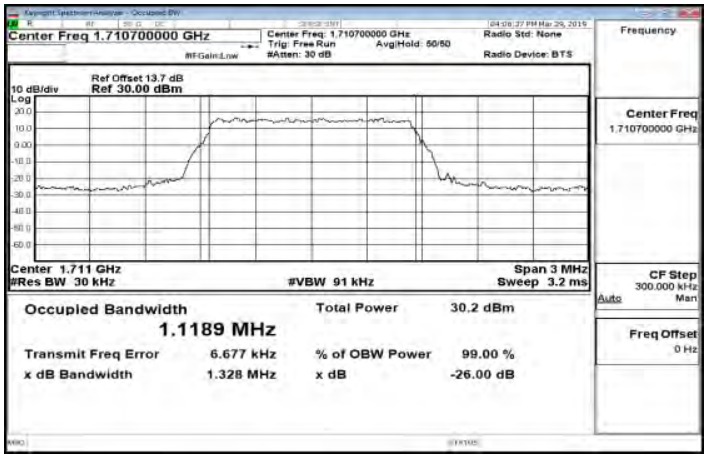
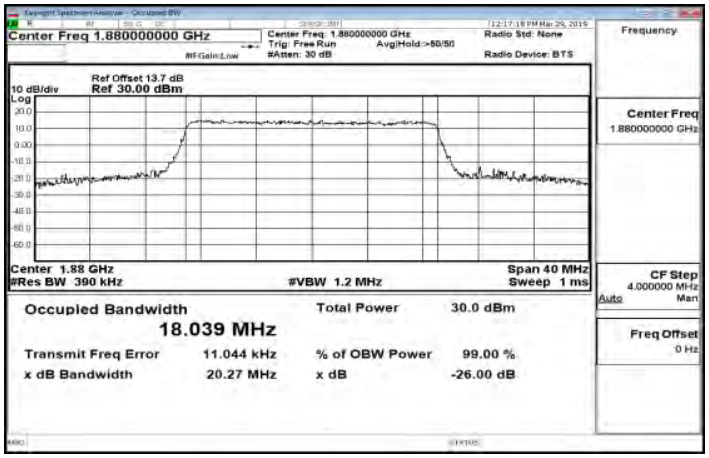
Band2_20MHz_16QAM_100_0_Main_LowCH18700-1860



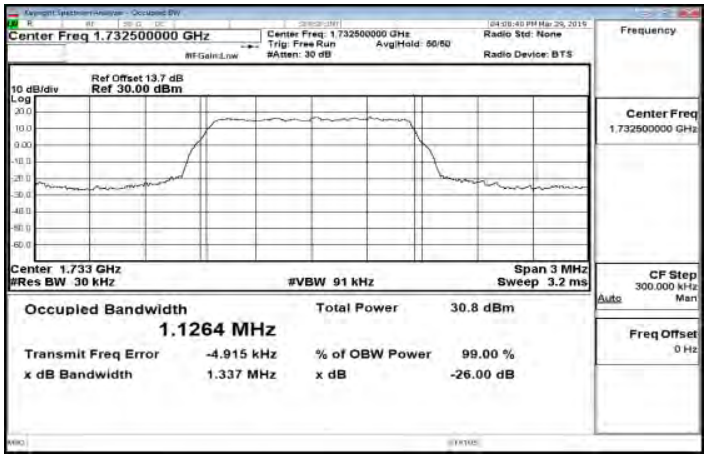
Band4_1_4MHz_QPSK_6_0_Main_LowCH19957-1710.7



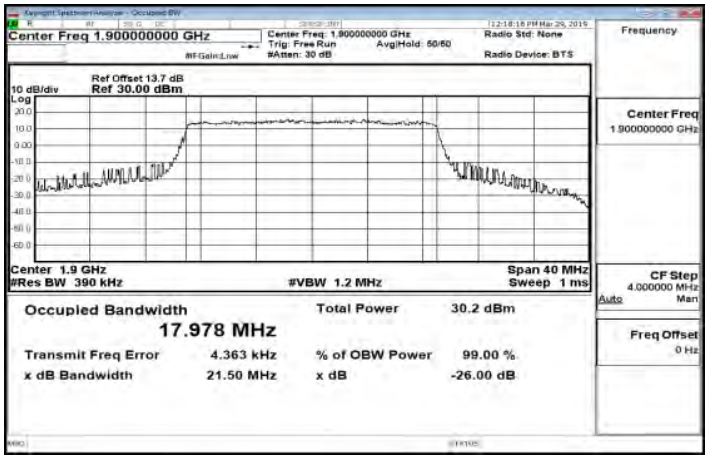
Band2_20MHz_16QAM_100_0_Main_MidCH18900-1880



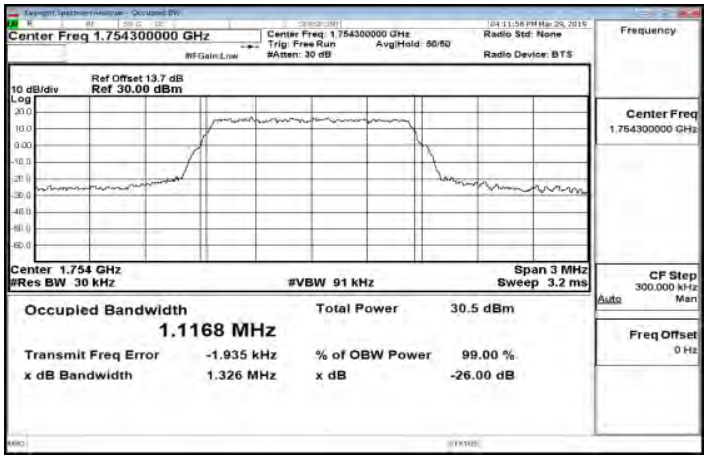
Band4_1_4MHz_QPSK_6_0_Main_MidCH20175-1732.5



Band2_20MHz_16QAM_100_0_Main_HighCH19100-1900



Band4_1_4MHz_QPSK_6_0_Main_HighCH20393-1754.3



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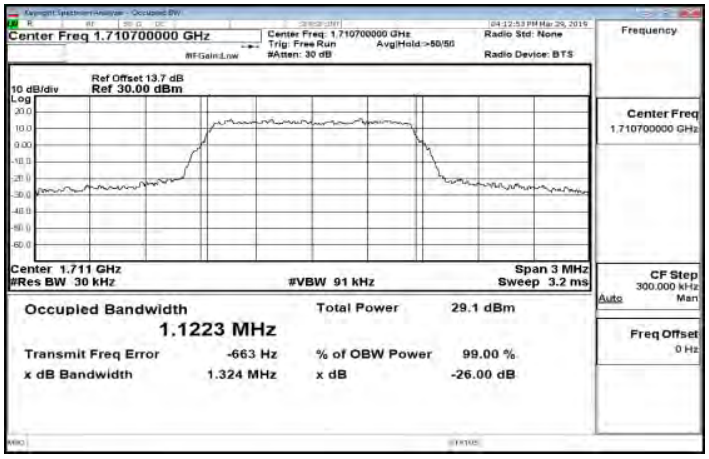
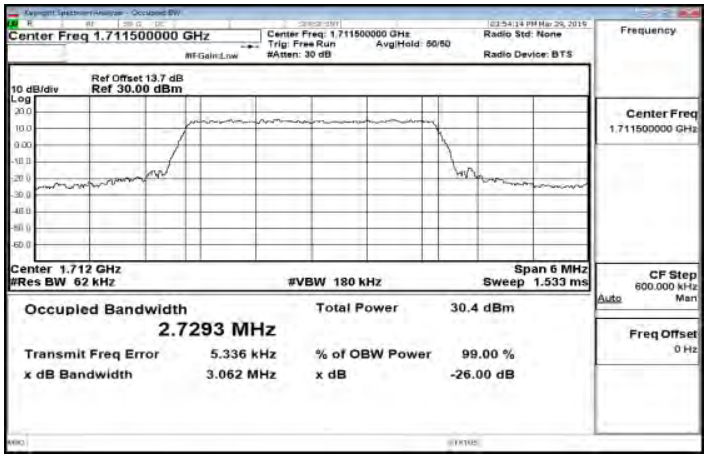
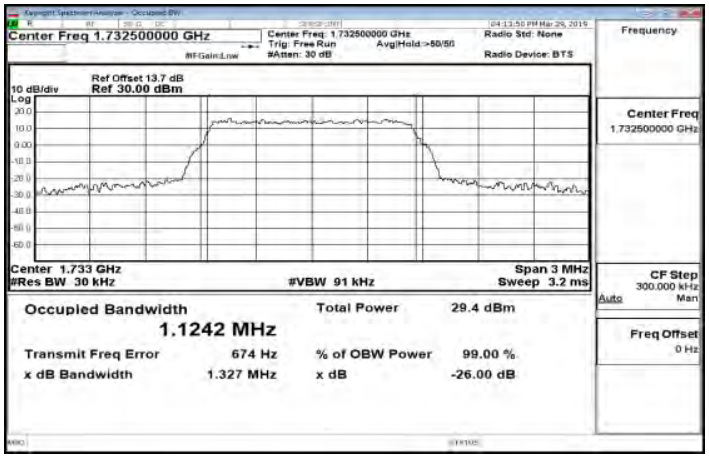
Band4_1_4MHz_16QAM_6_0_Main_LowCH19957-1710.7



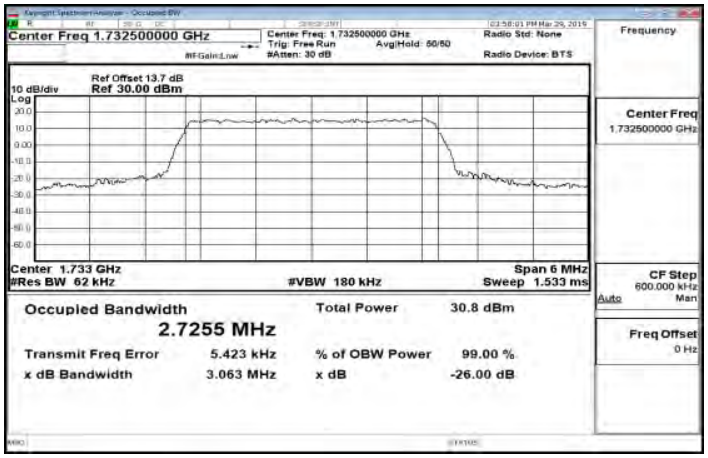
Band4_3MHz_QPSK_15_0_Main_LowCH19965-1711.5



Band4_1_4MHz_16QAM_6_0_Main_MidCH20175-1732.5

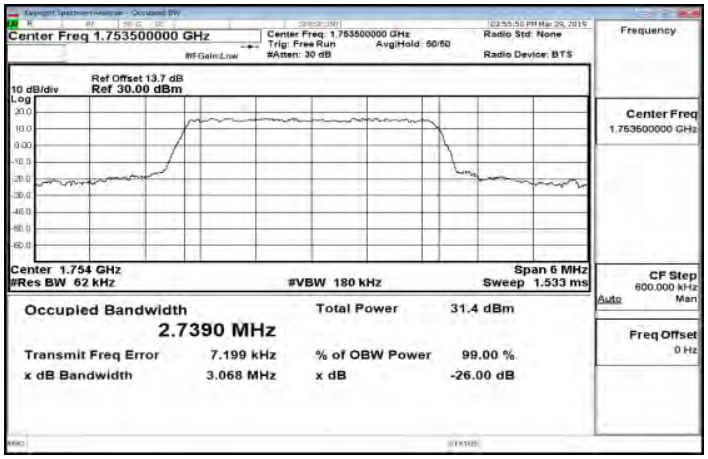


Band4_3MHz_QPSK_15_0_Main_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3

Band4_3MHz_QPSK_15_0_Main_HighCH20385-1753.5



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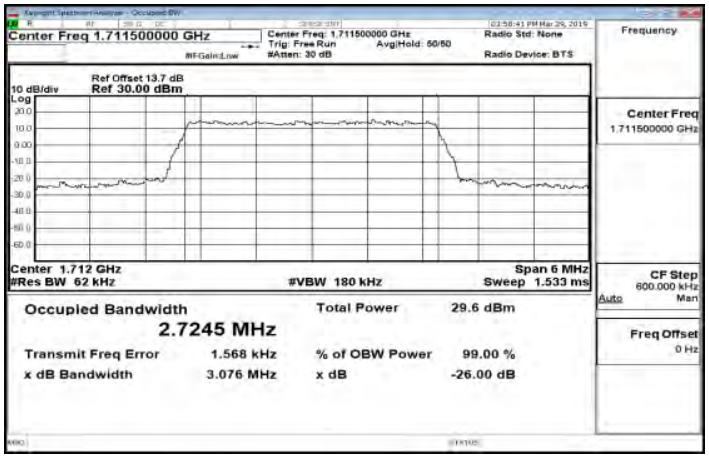
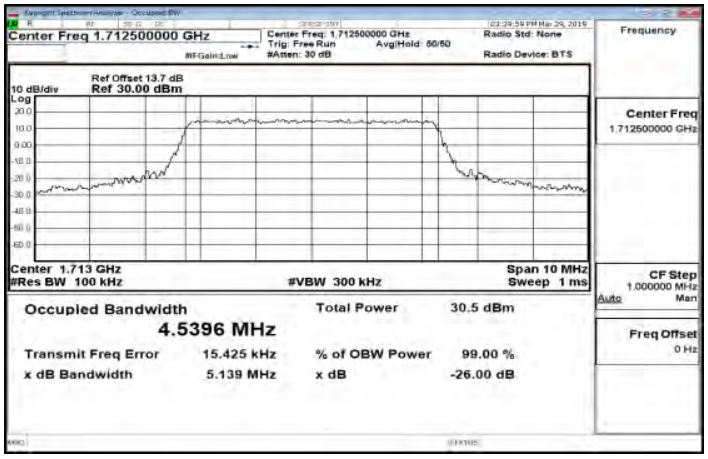
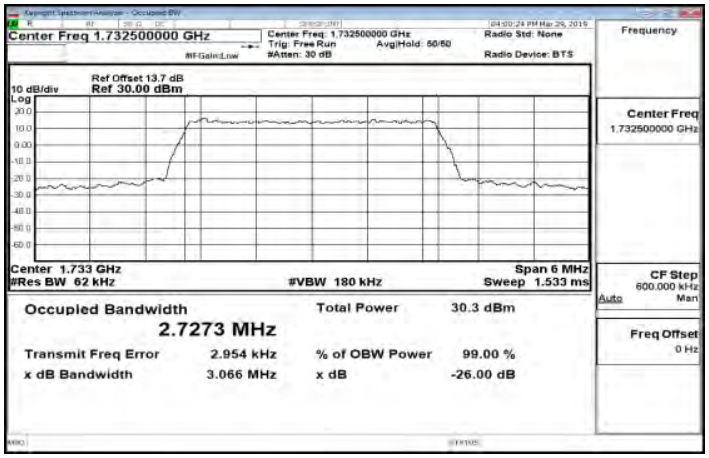
Band4_3MHz_16QAM_15_0_Main_LowCH19965-1711.5



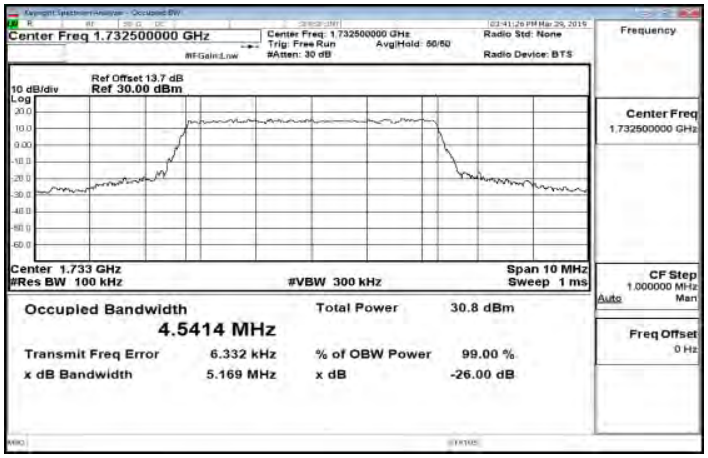
Band4_5MHz_QPSK_25_0_Main_LowCH19975-1712.5



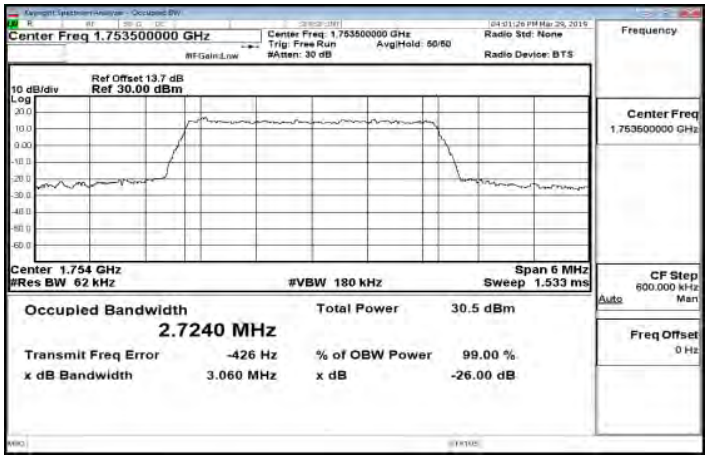
Band4_3MHz_16QAM_15_0_Main_MidCH20175-1732.5



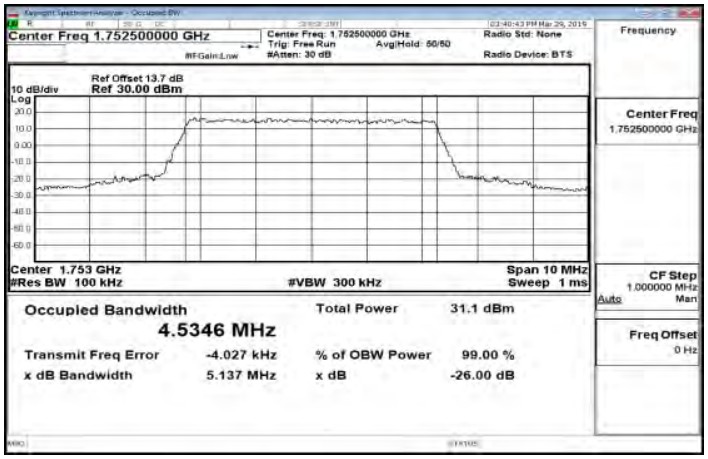
Band4_5MHz_QPSK_25_0_Main_MidCH20175-1732.5



Band4_3MHz_16QAM_15_0_Main_HighCH20385-1753.5



Band4_5MHz_QPSK_25_0_Main_HighCH20375-1752.5



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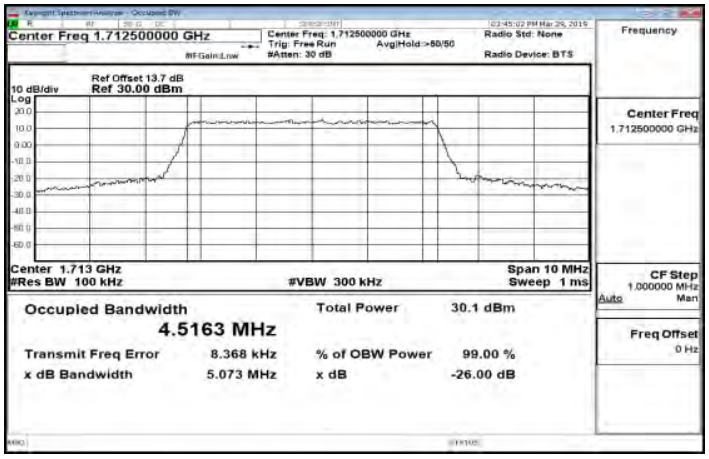
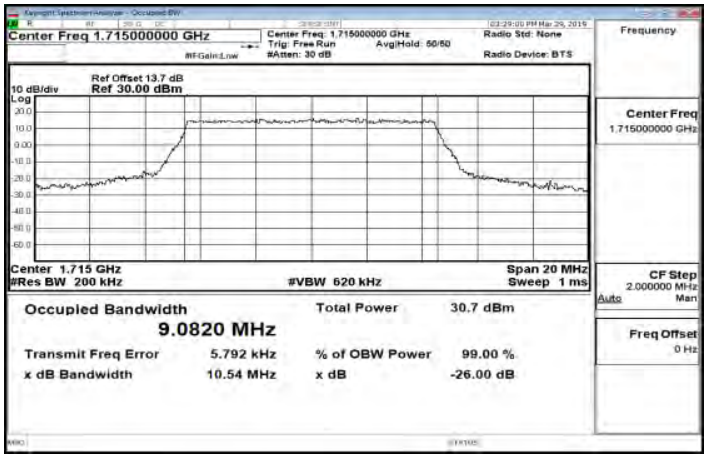
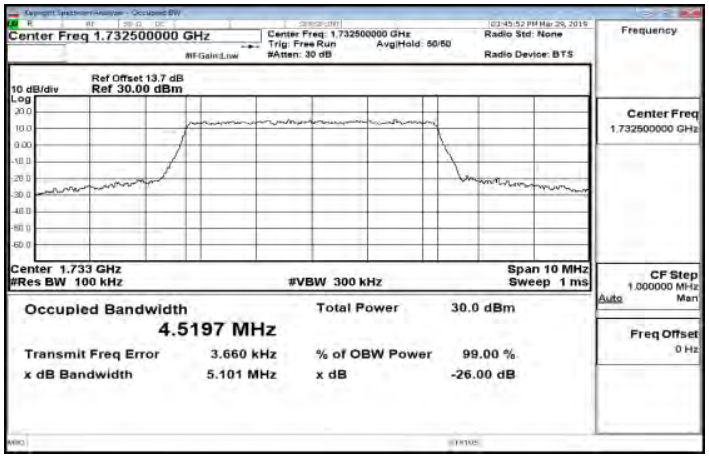
Band4_5MHz_16QAM_25_0_Main_LowCH19975-1712.5



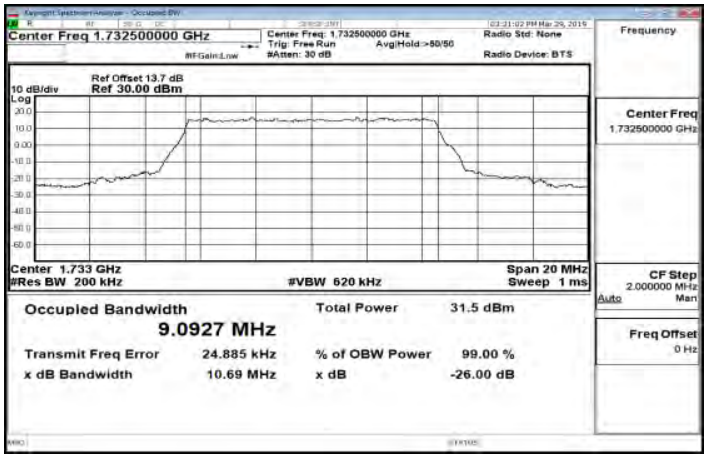
Band4_10MHz_QPSK_50_0_Main_LowCH20000-1715



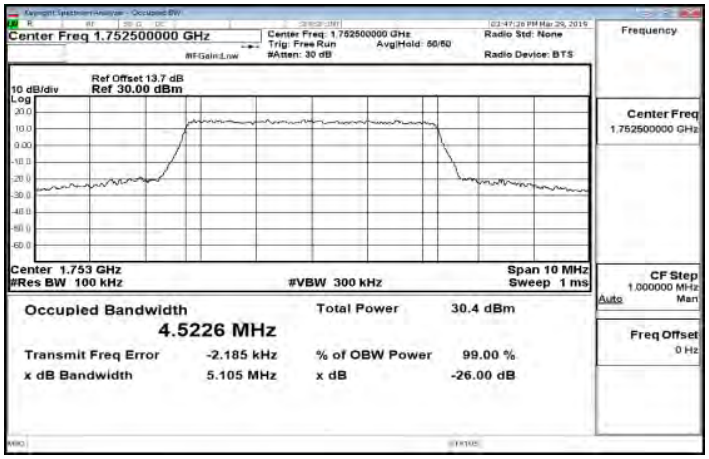
Band4_5MHz_16QAM_25_0_Main_MidCH20175-1732.5



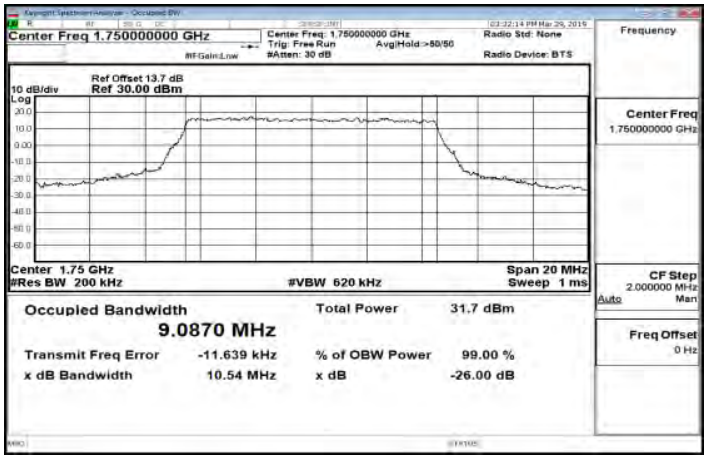
Band4_10MHz_QPSK_50_0_Main_MidCH20175-1732.5



Band4_5MHz_16QAM_25_0_Main_HighCH20375-1752.5



Band4_10MHz_QPSK_50_0_Main_HighCH20350-1750



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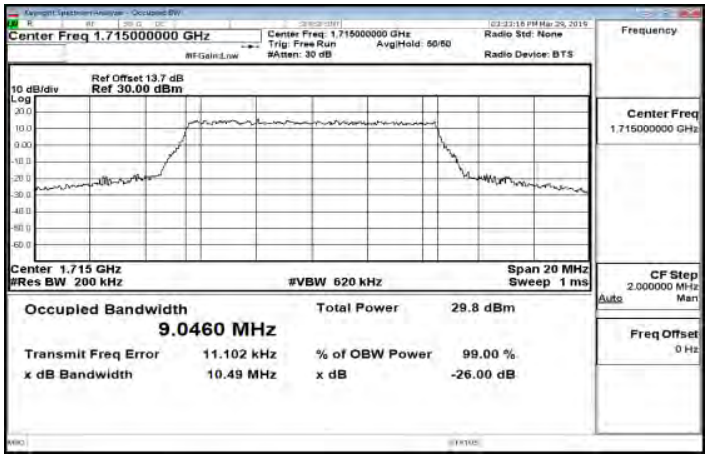
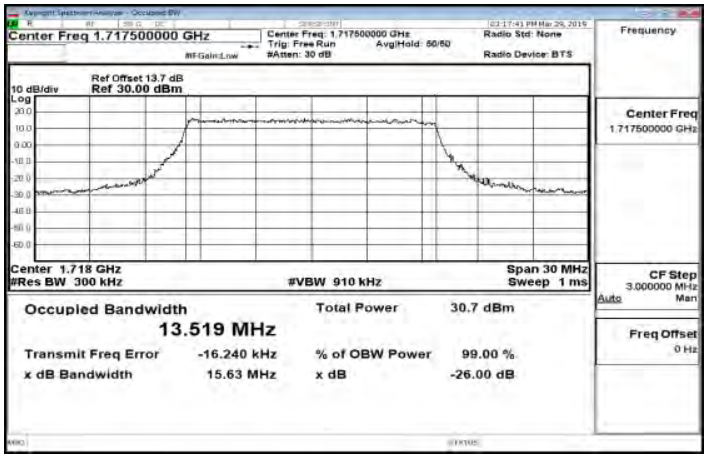
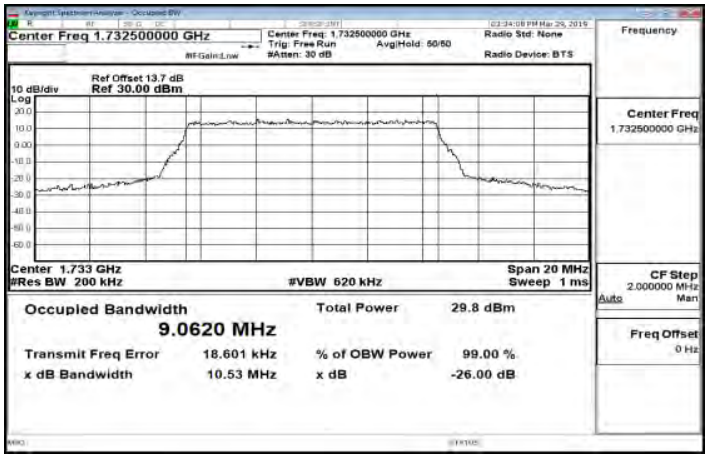
Band4_10MHz_16QAM_50_0_Main_LowCH20000-1715



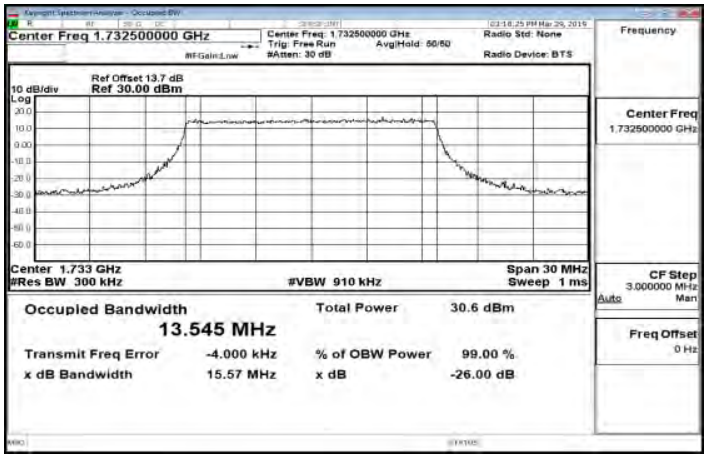
Band4_15MHz_QPSK_75_0_Main_LowCH20025-1717.5



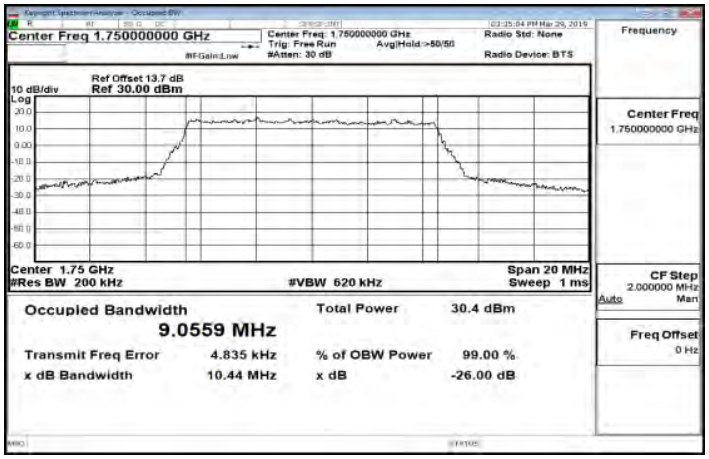
Band4_10MHz_16QAM_50_0_Main_MidCH20175-1732.5



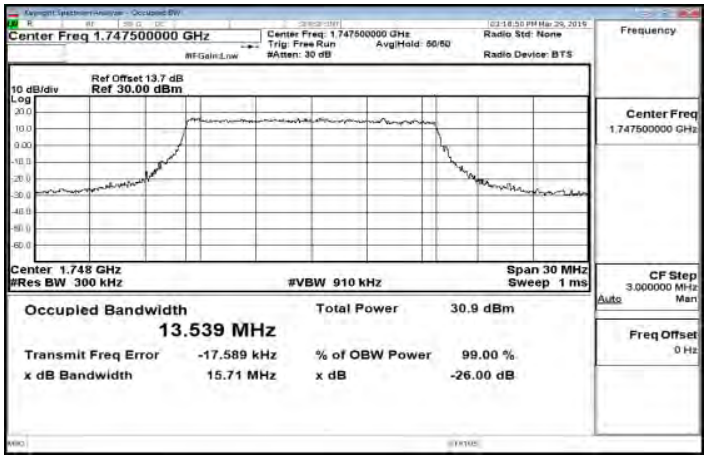
Band4_15MHz_QPSK_75_0_Main_MidCH20175-1732.5



Band4_10MHz_16QAM_50_0_Main_HighCH20350-1750



Band4_15MHz_QPSK_75_0_Main_HighCH20325-1747.5



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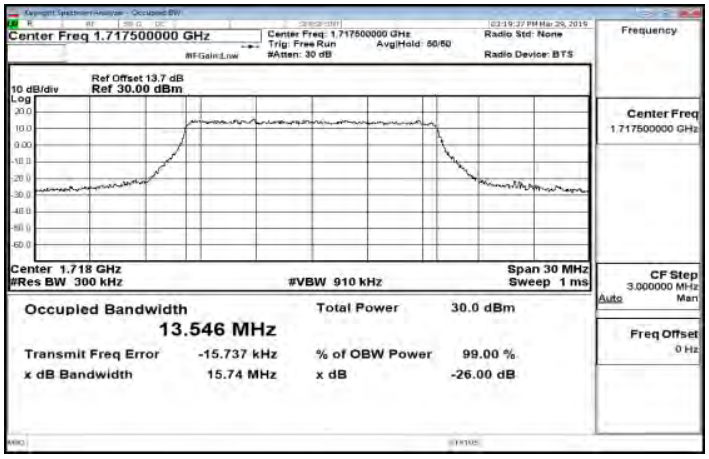
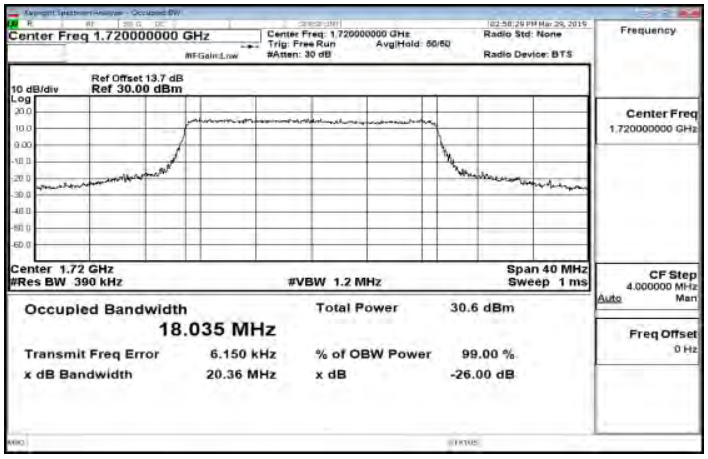
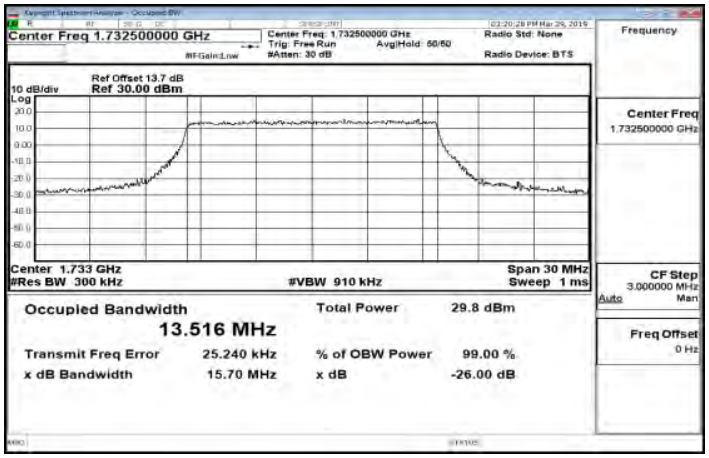
Band4_15MHz_16QAM_75_0_Main_LowCH20025-1717.5



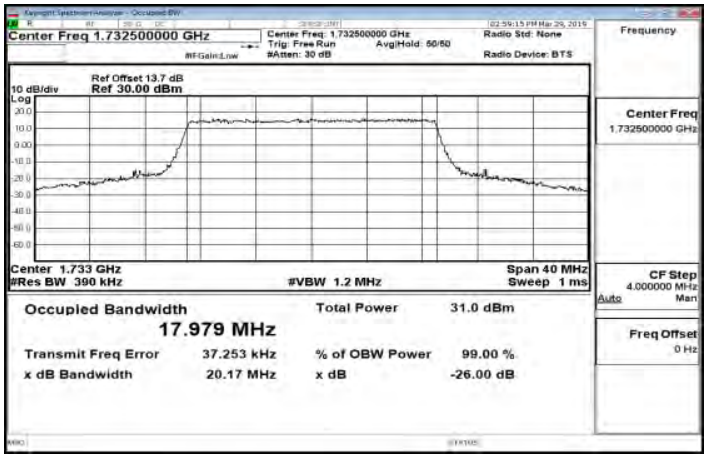
Band4_20MHz_QPSK_100_0_Main_LowCH20050-1720



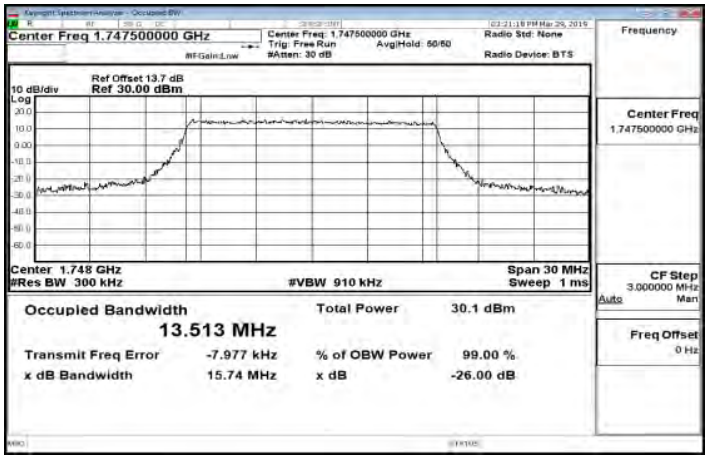
Band4_15MHz_16QAM_75_0_Main_MidCH20175-1732.5



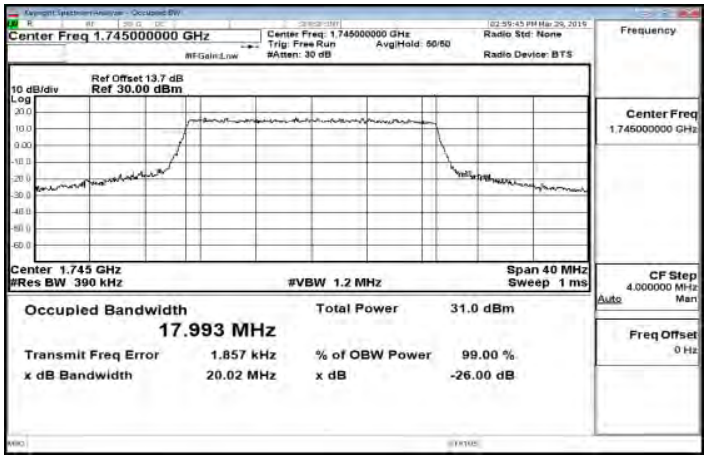
Band4_20MHz_QPSK_100_0_Main_MidCH20175-1732.5



Band4_15MHz_16QAM_75_0_Main_HighCH20325-1747.5



Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



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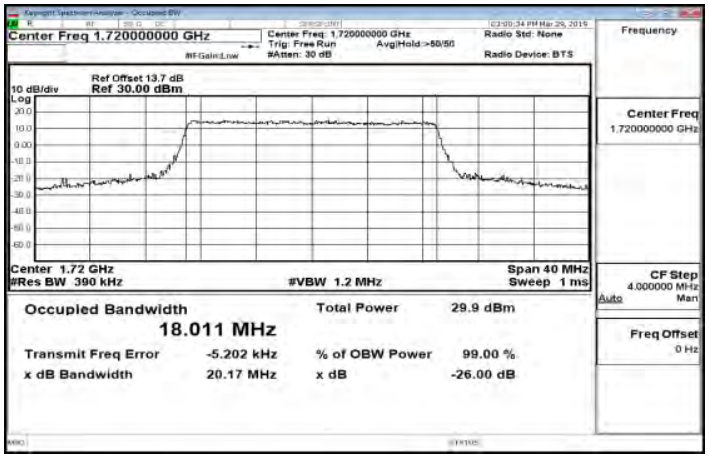
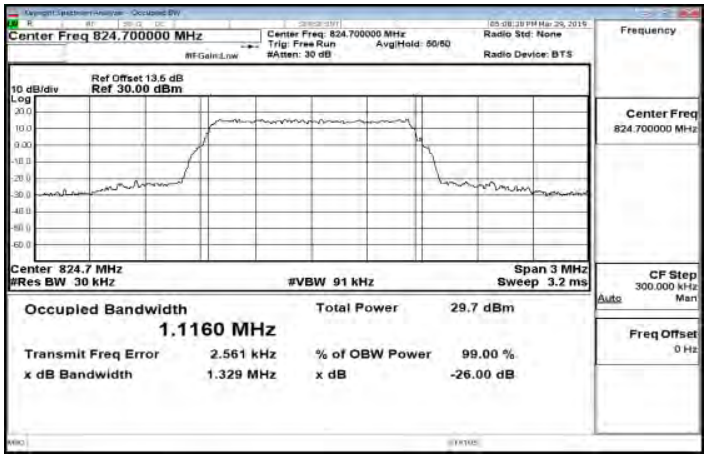
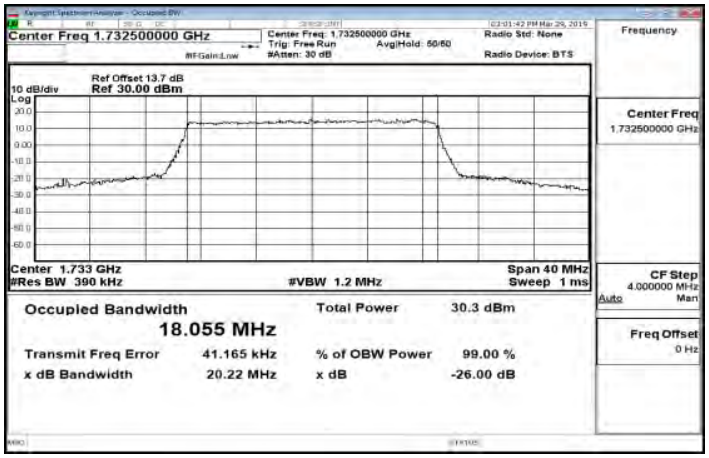
Band4_20MHz_16QAM_100_0_Main_LowCH20050-1720



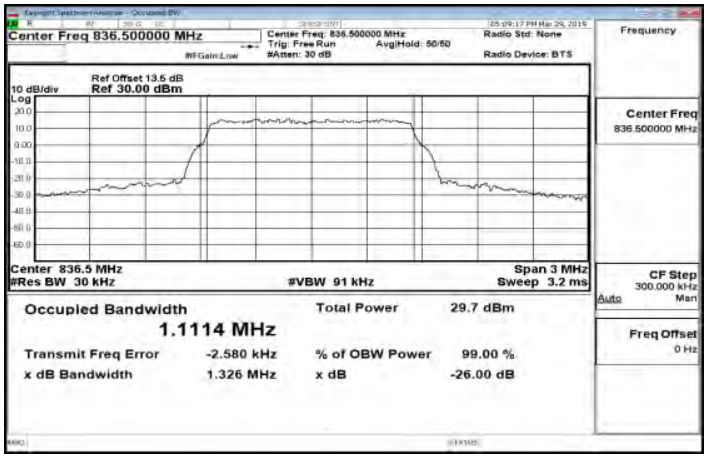
Band5_1_4MHz_QPSK_6_0_Main_LowCH20407-824.7



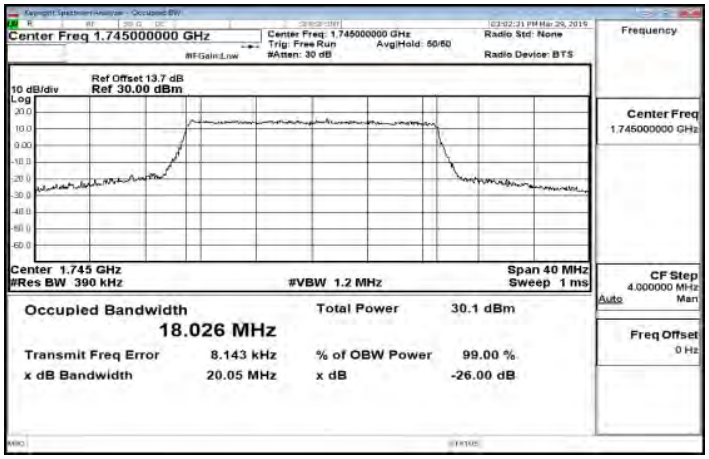
Band4_20MHz_16QAM_100_0_Main_MidCH20175-1732.5



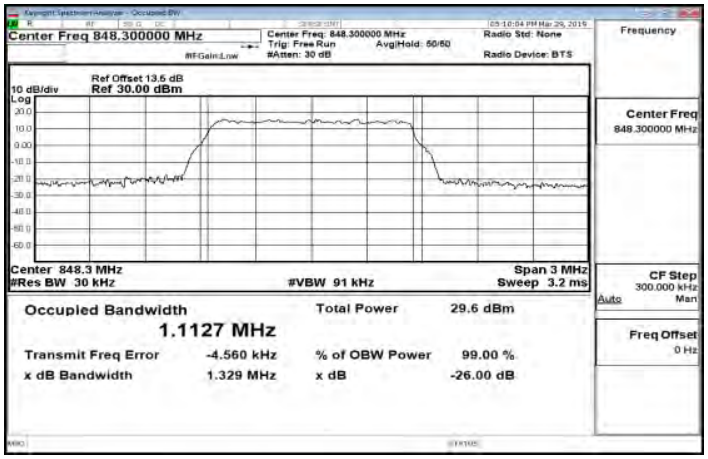
Band5_1_4MHz_QPSK_6_0_Main_MidCH20525-836.5



Band4_20MHz_16QAM_100_0_Main_HighCH20300-1745



Band5_1_4MHz_QPSK_6_0_Main_HighCH20643-848.3



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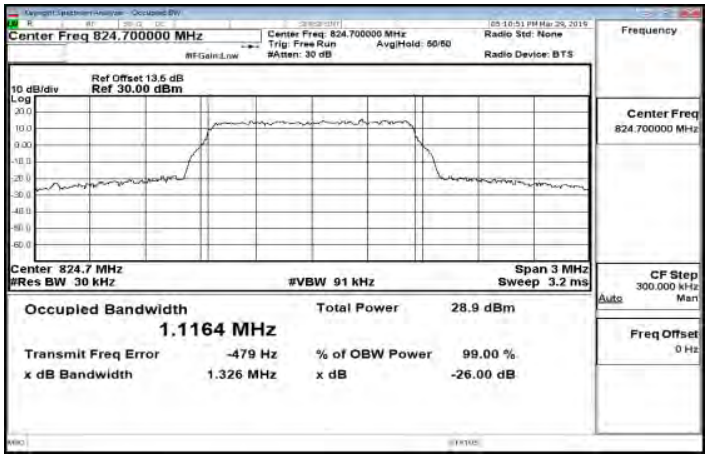
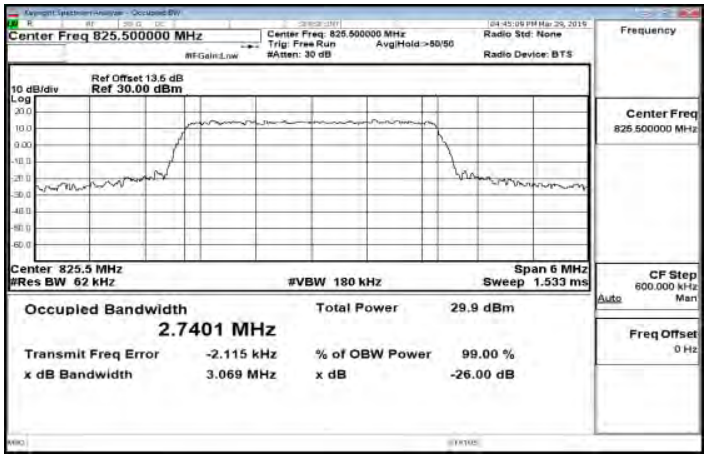
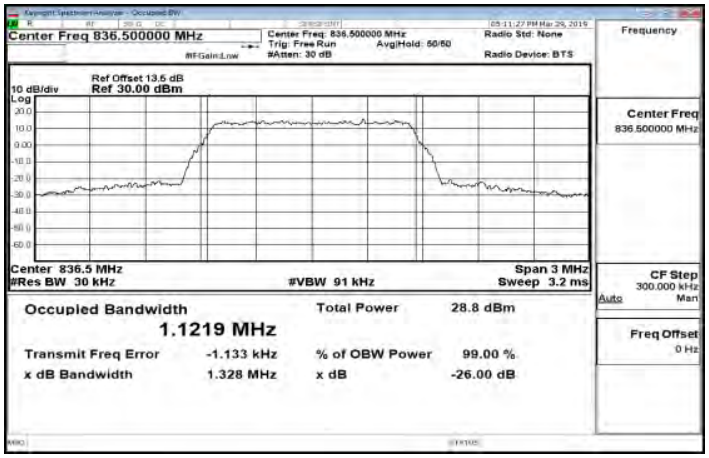
Band5_1_4MHz_16QAM_6_0_Main_LowCH20407-824.7



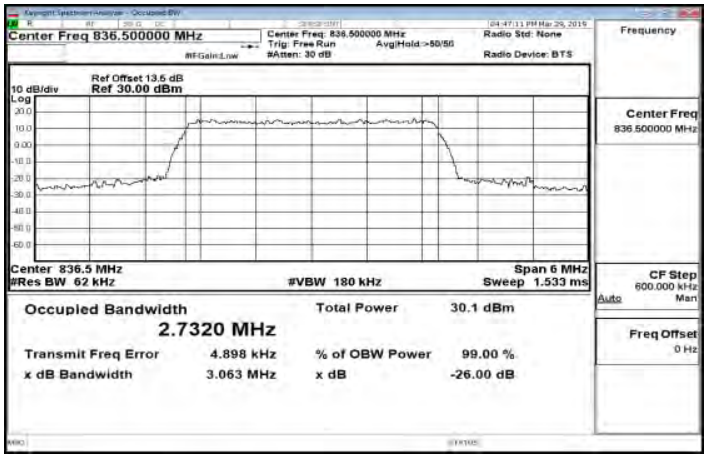
Band5_3MHz_QPSK_15_0_Main_LowCH20415-825.5



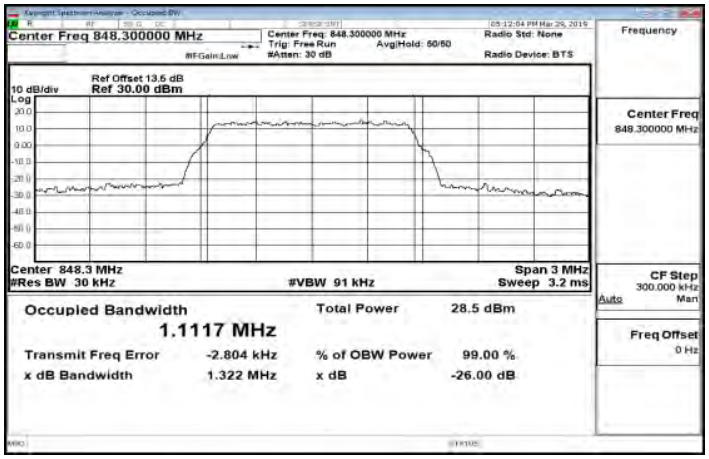
Band5_1_4MHz_16QAM_6_0_Main_MidCH20525-836.5



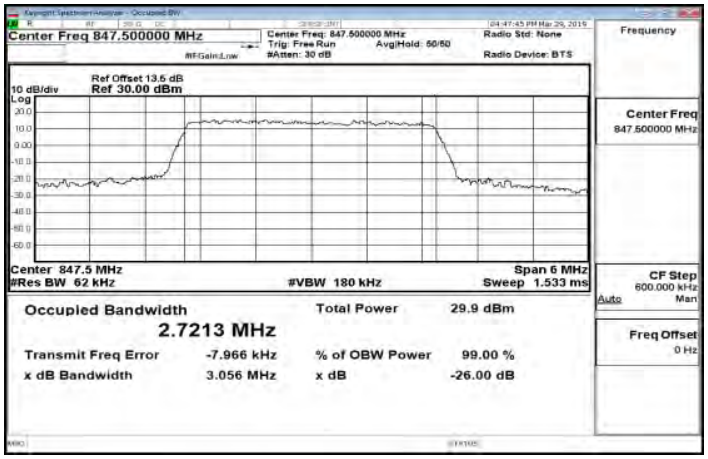
Band5_3MHz_QPSK_15_0_Main_MidCH20525-836.5



Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3



Band5_3MHz_QPSK_15_0_Main_HighCH20635-847.5



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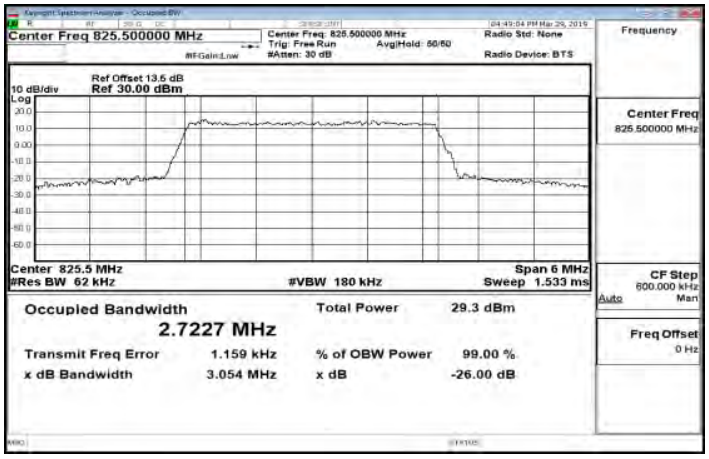
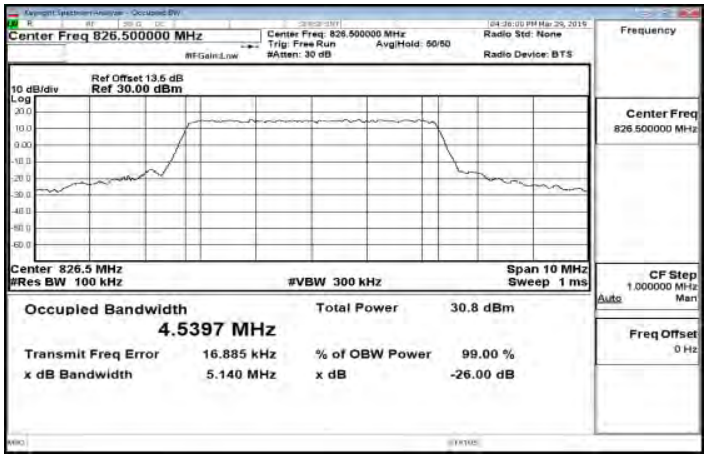
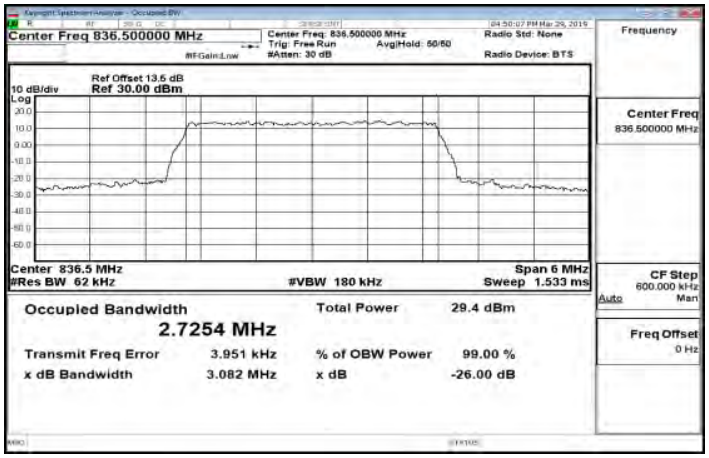
Band5_3MHz_16QAM_15_0_Main_LowCH20415-825.5



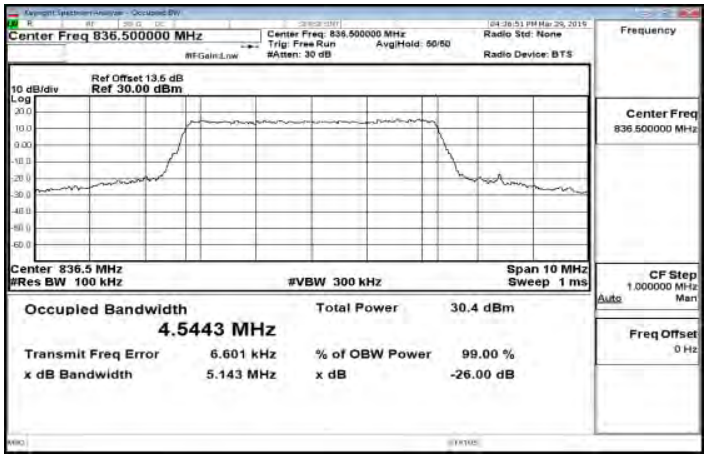
Band5_5MHz_QPSK_25_0_Main_LowCH20425-826.5



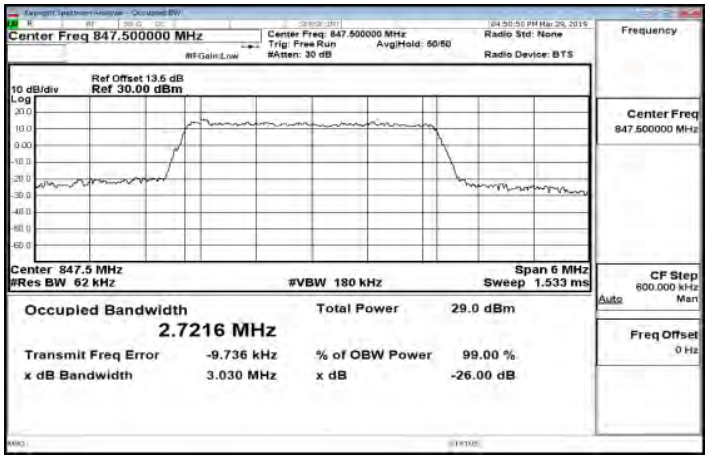
Band5_3MHz_16QAM_15_0_Main_MidCH20525-836.5



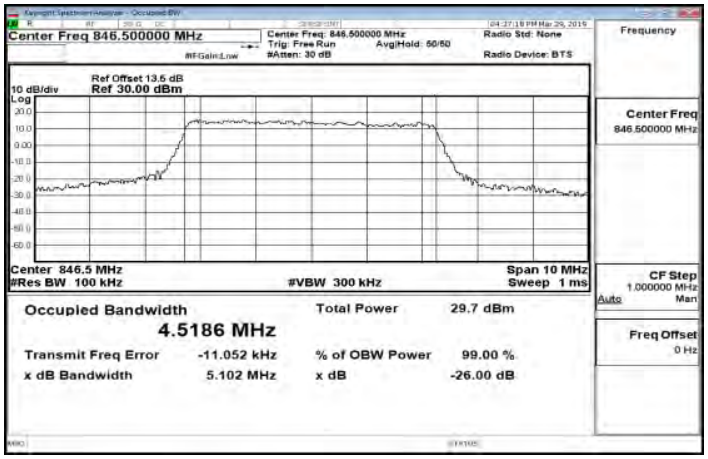
Band5_5MHz_QPSK_25_0_Main_MidCH20525-836.5



Band5_3MHz_16QAM_15_0_Main_HighCH20635-847.5



Band5_5MHz_QPSK_25_0_Main_HighCH20625-846.5



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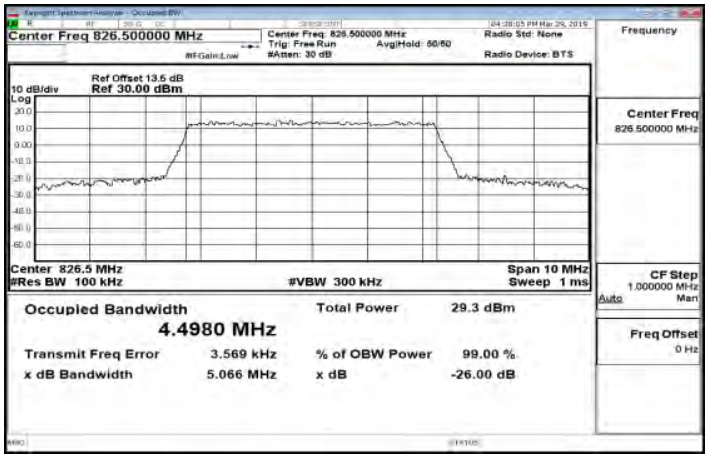
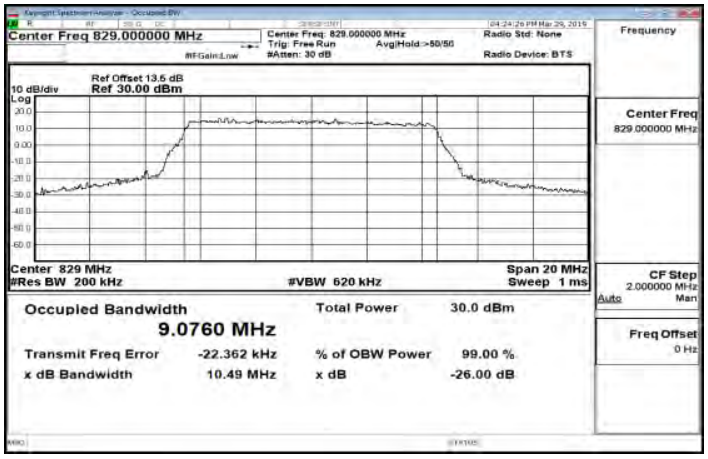
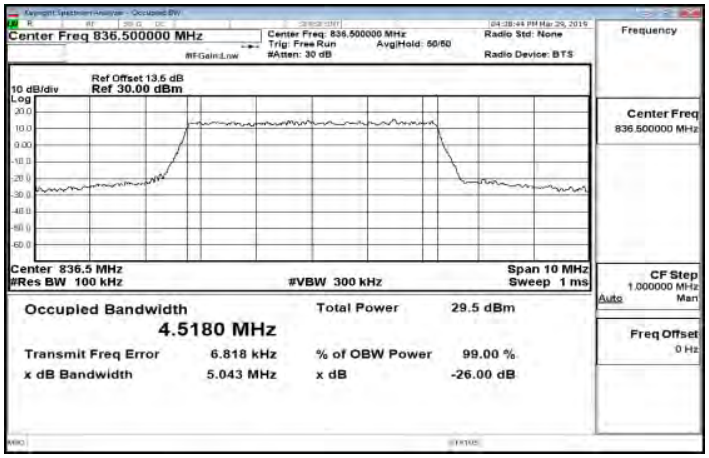
Band5_5MHz_16QAM_25_0_Main_LowCH20425-826.5



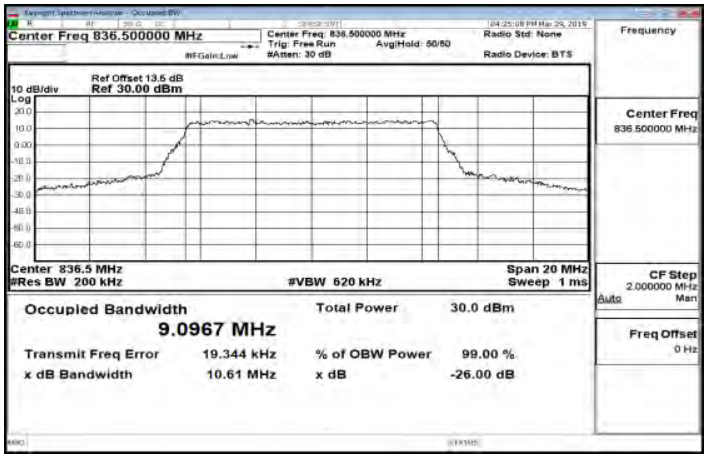
Band5_10MHz_QPSK_50_0_Main_LowCH20450-829



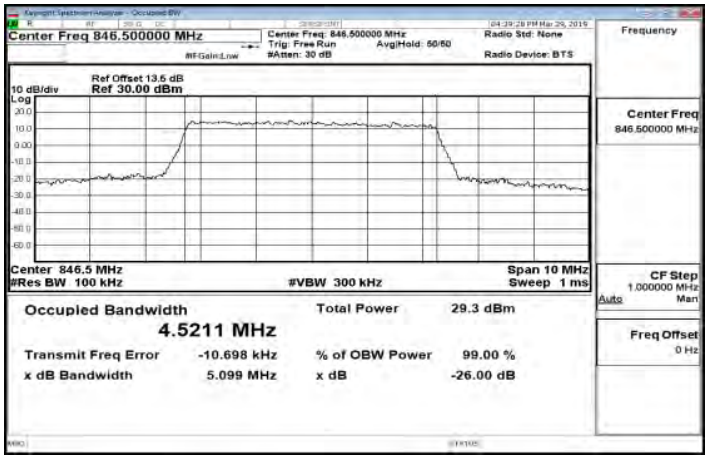
Band5_5MHz_16QAM_25_0_Main_MidCH20525-836.5



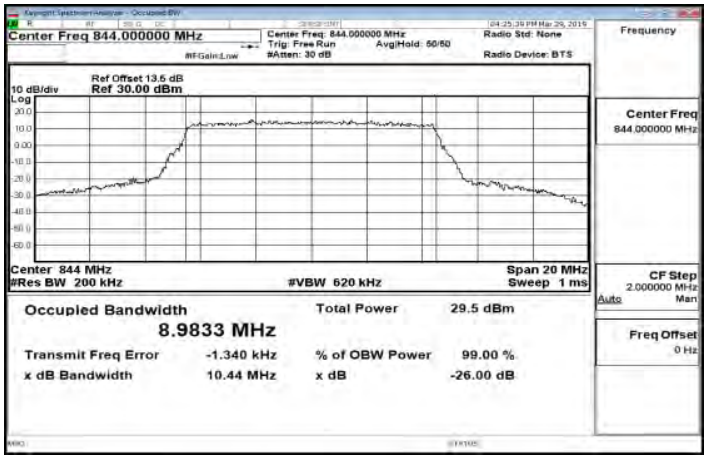
Band5_10MHz_QPSK_50_0_Main_MidCH20525-836.5



Band5_5MHz_16QAM_25_0_Main_HighCH20625-846.5



Band5_10MHz_QPSK_50_0_Main_HighCH20600-844



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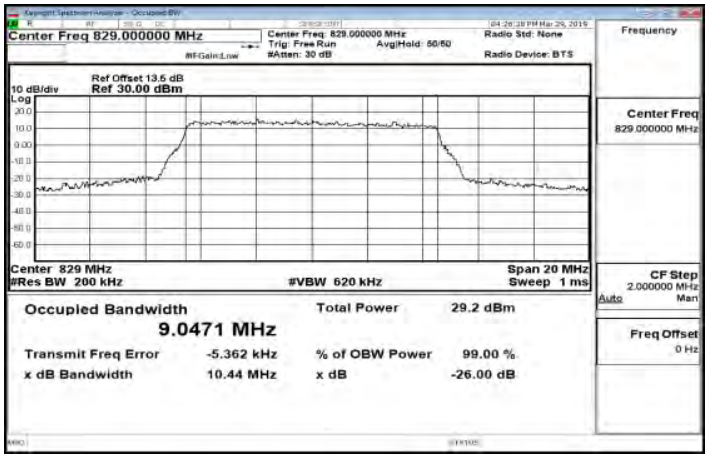
Band5_10MHz_16QAM_50_0_Main_LowCH20450-829



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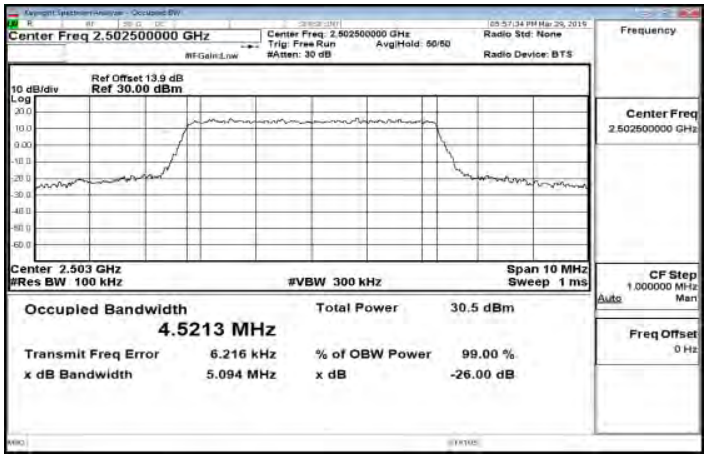
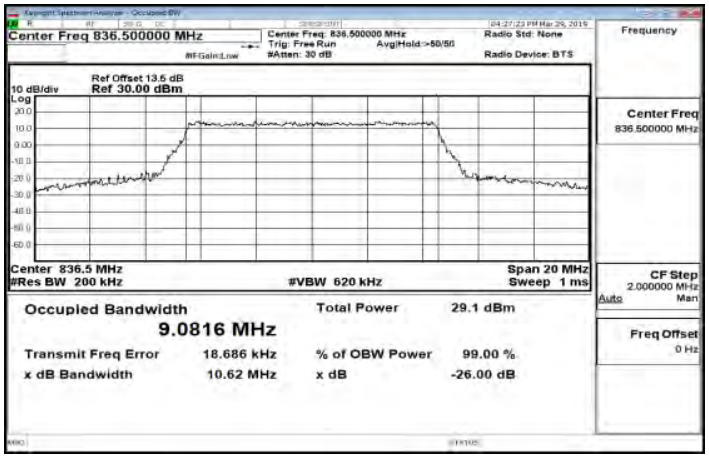
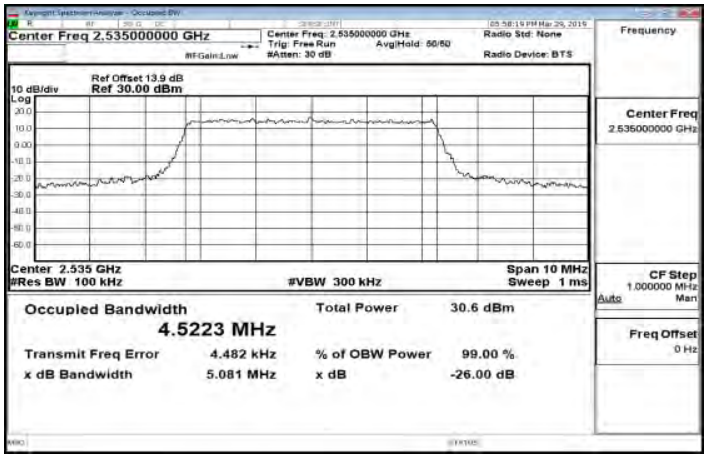


Band5_10MHz_16QAM_50_0_Main_MidCH20525-836.5



Band7_5MHz_QPSK_25_0_Main_MidCH21100-2535



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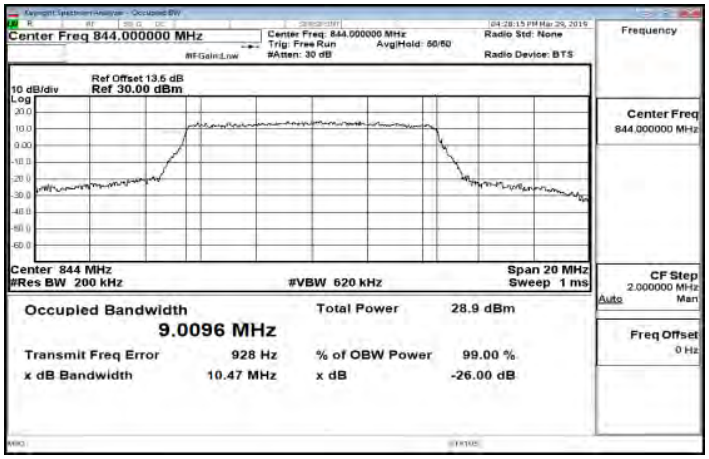
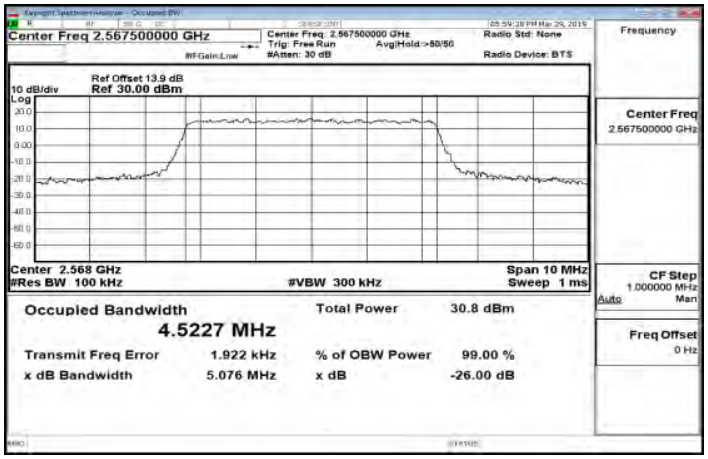


Band7_5MHz_QPSK_25_0_Main_HighCH21425-2567.5



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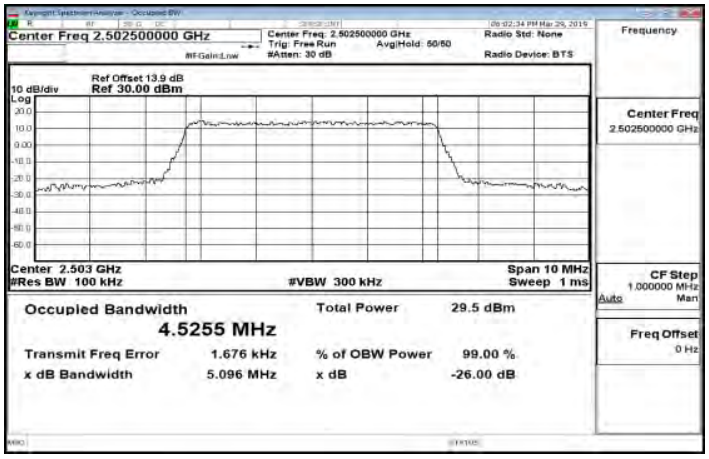
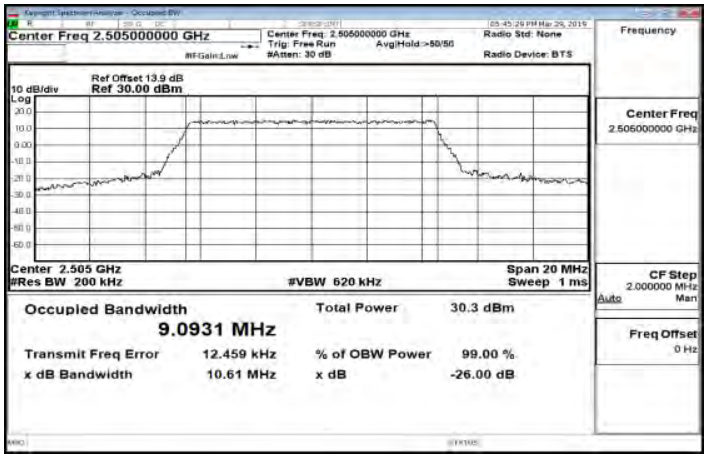
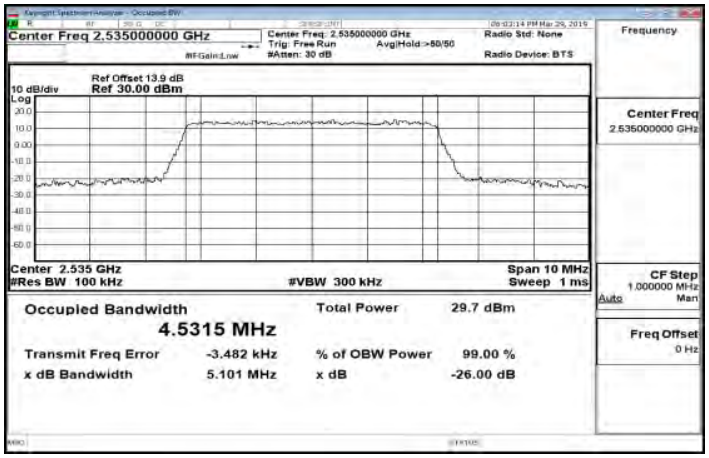
Band7_5MHz_16QAM_25_0_Main_LowCH20775-2502.5



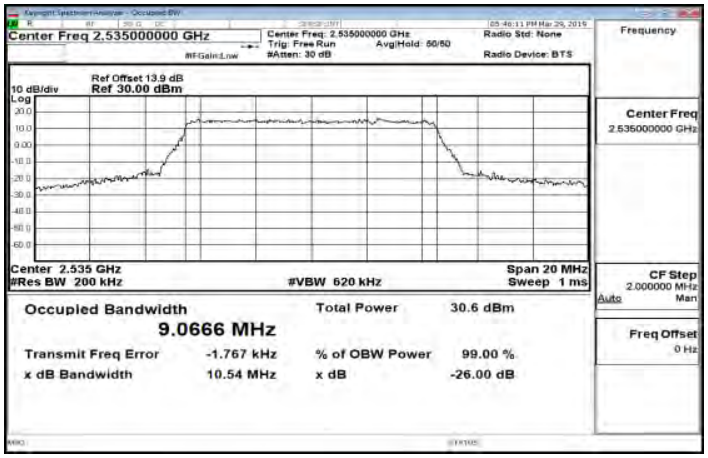
Band7_10MHz_QPSK_50_0_Main_LowCH20800-2505



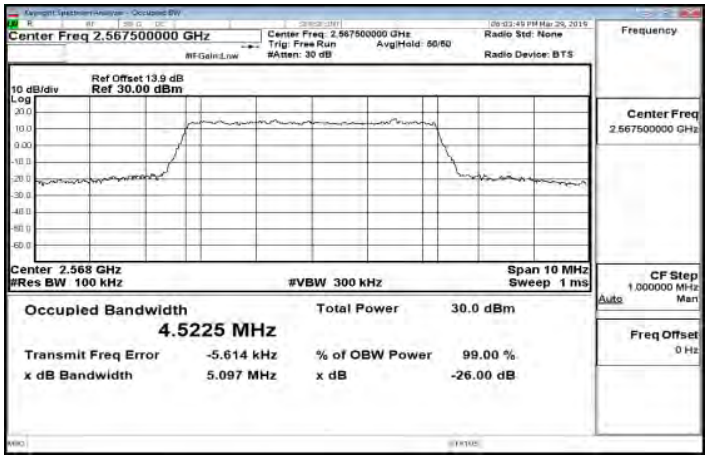
Band7_5MHz_16QAM_25_0_Main_MidCH21100-2535



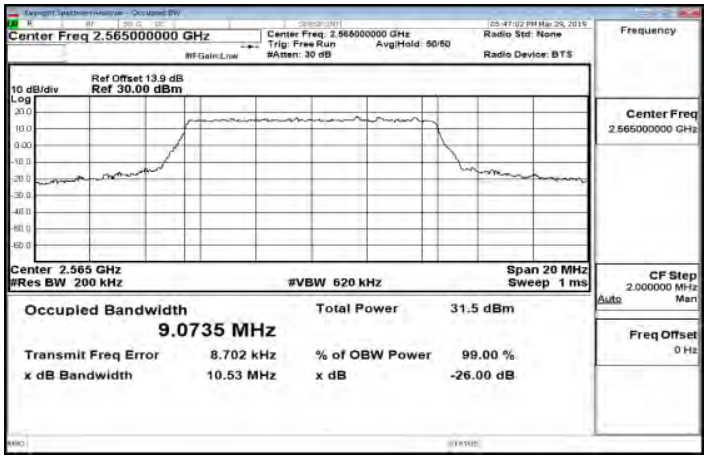
Band7_10MHz_QPSK_50_0_Main_MidCH21100-2535



Band7_5MHz_16QAM_25_0_Main_HighCH21425-2567.5



Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565



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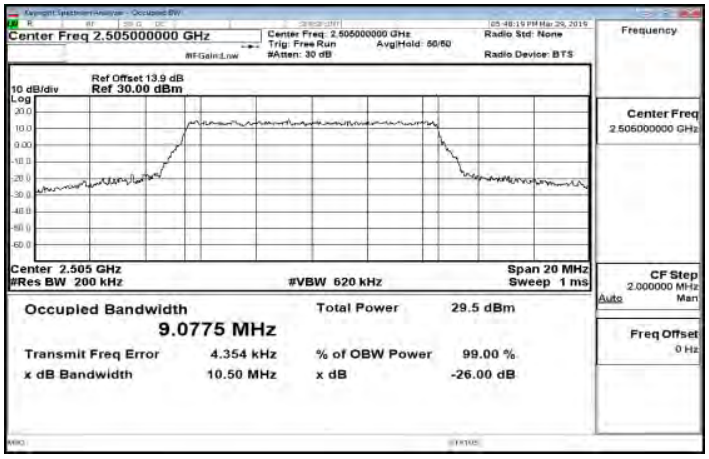
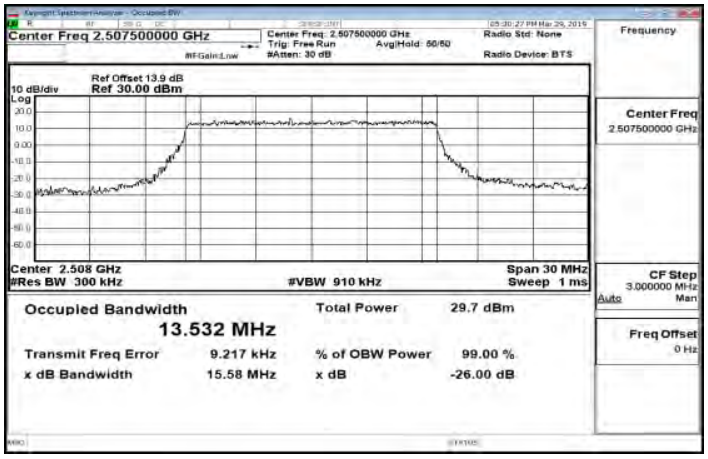
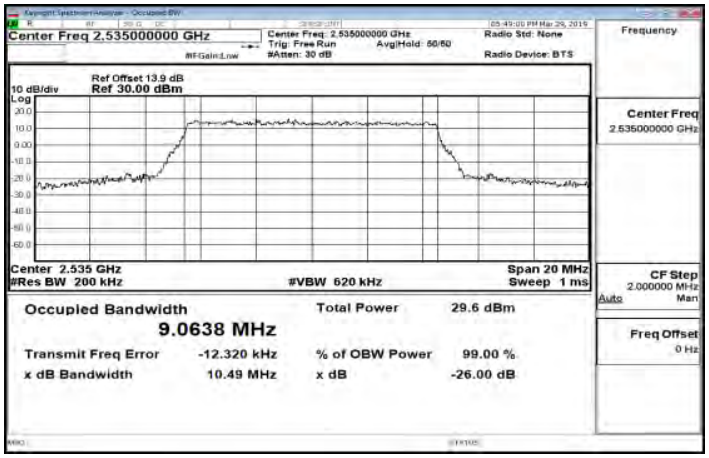
Band7_10MHz_16QAM_50_0_Main_LowCH20800-2505



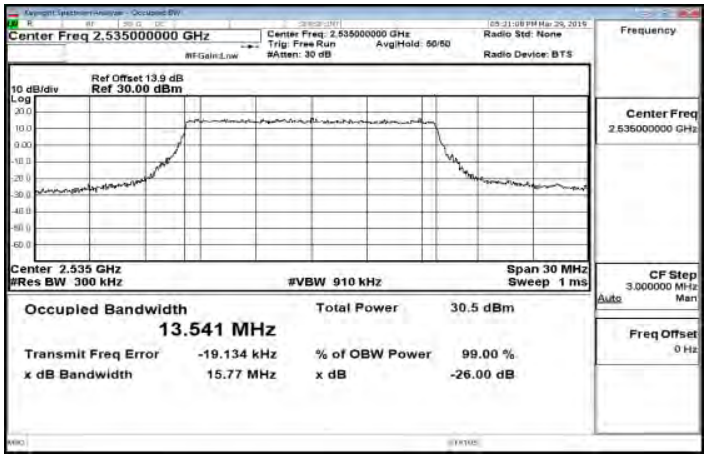
Band7_15MHz_QPSK_75_0_Main_LowCH20825-2507.5



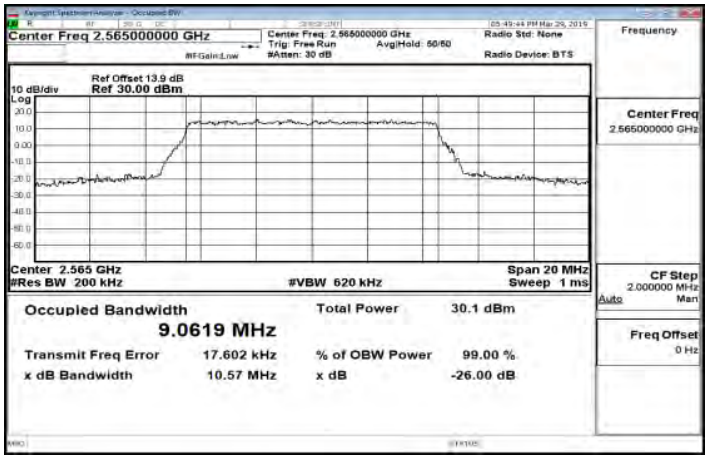
Band7_10MHz_16QAM_50_0_Main_MidCH21100-2535



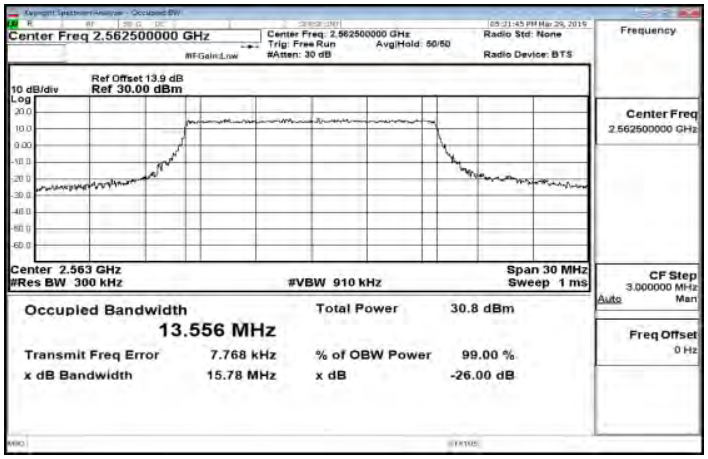
Band7_15MHz_QPSK_75_0_Main_MidCH21100-2535



Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565



Band7_15MHz_QPSK_75_0_Main_HighCH21375-2562.5



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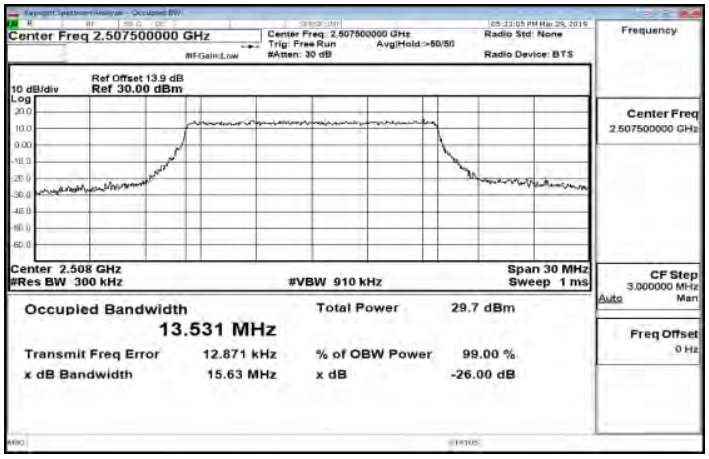
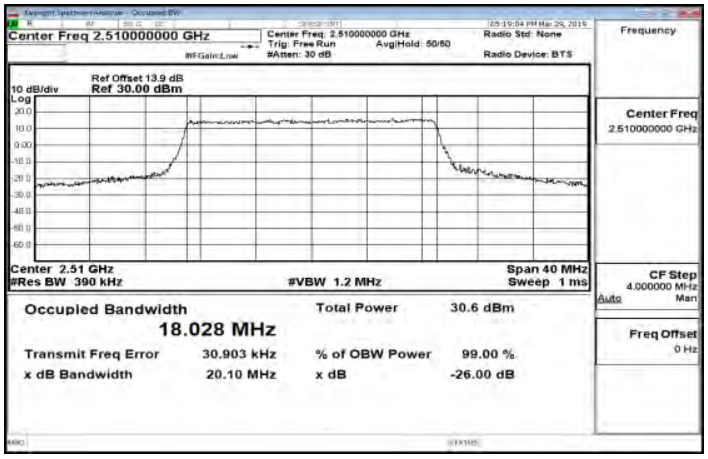
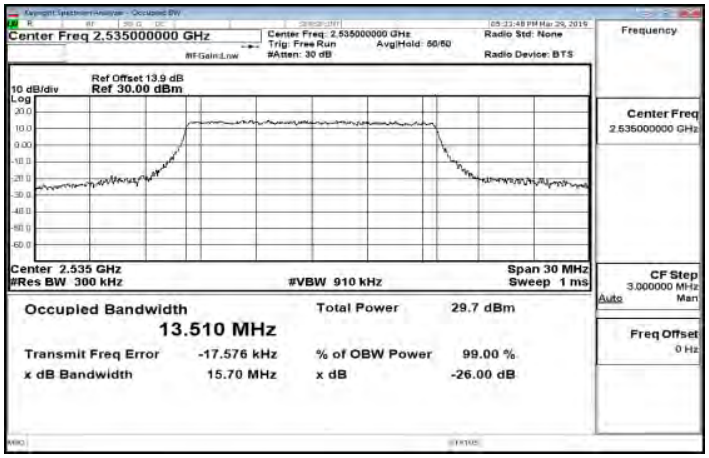
Band7_15MHz_16QAM_75_0_Main_LowCH20825-2507.5



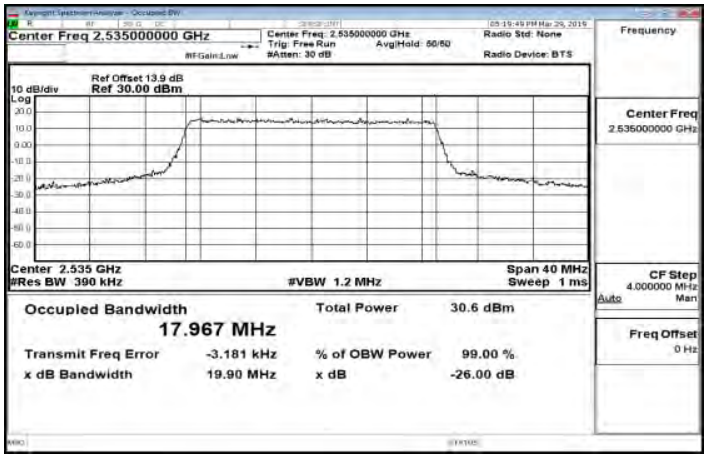
Band7_20MHz_QPSK_100_0_Main_LowCH20850-2510



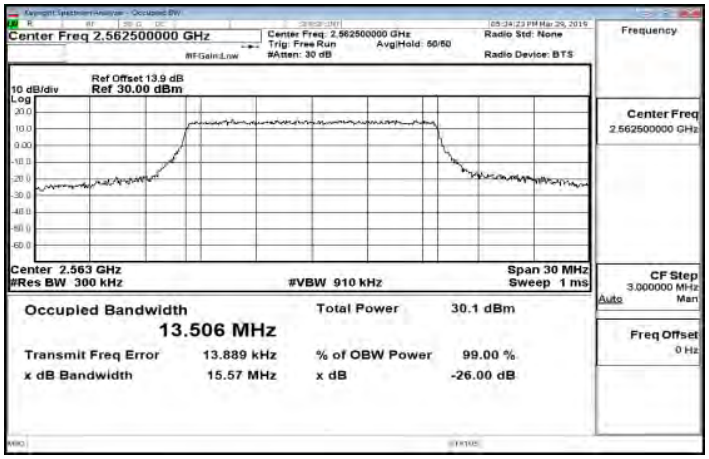
Band7_15MHz_16QAM_75_0_Main_MidCH21100-2535



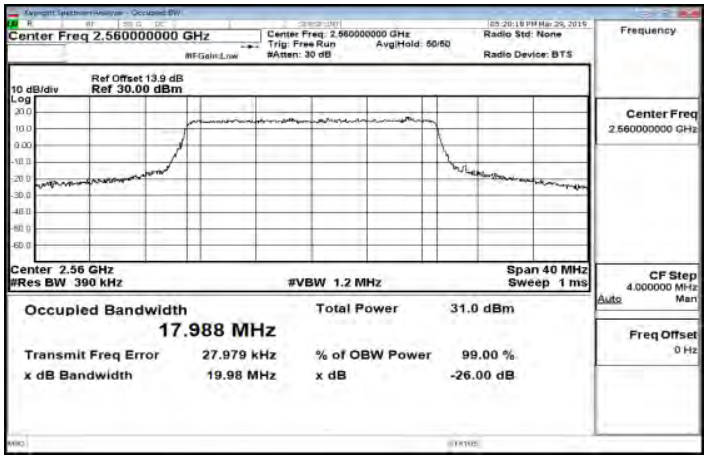
Band7_20MHz_QPSK_100_0_Main_MidCH21100-2535



Band7_15MHz_16QAM_75_0_Main_HighCH21375-2562.5



Band7_20MHz_QPSK_100_0_Main_HighCH21350-2560



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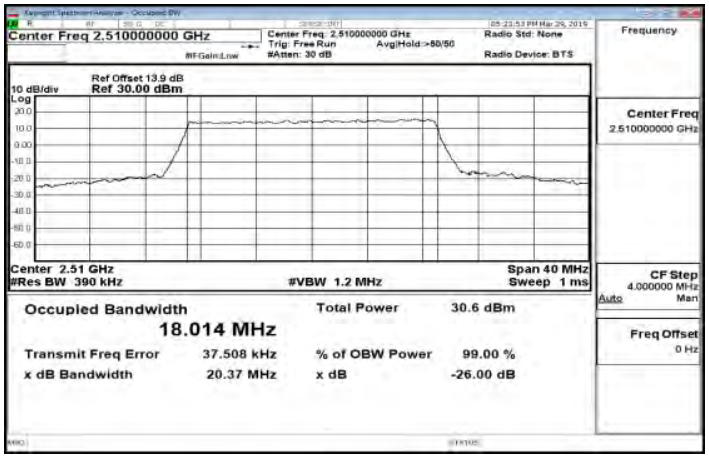
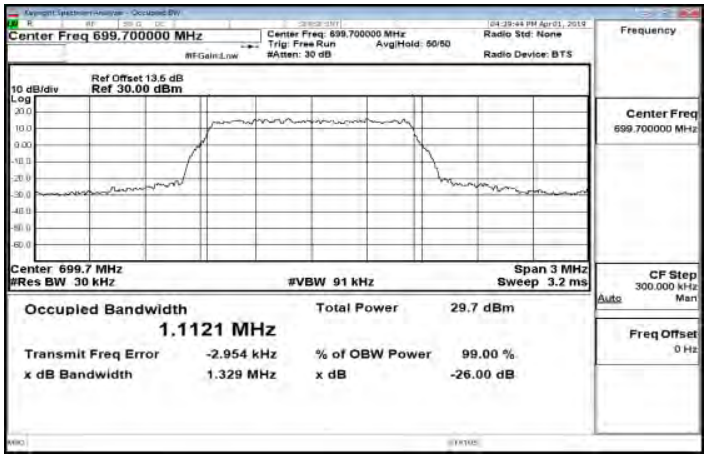
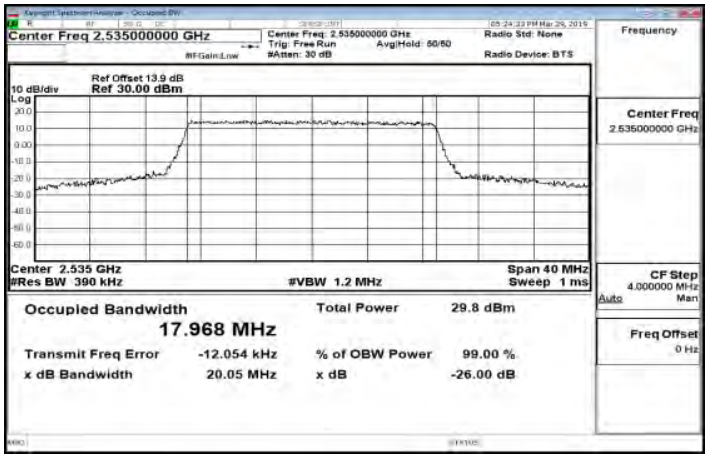
Band7_20MHz_16QAM_100_0_Main_LowCH20850-2510



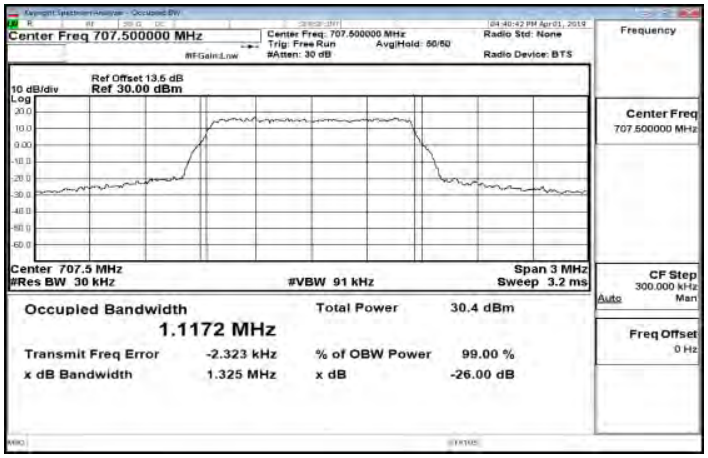
Band12_1_4MHz_QPSK_6_0_Main_LowCH23017-699.7



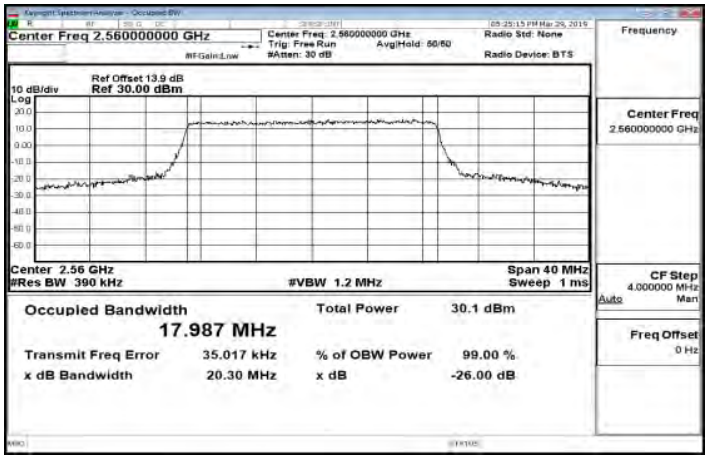
Band7_20MHz_16QAM_100_0_Main_MidCH21100-2535



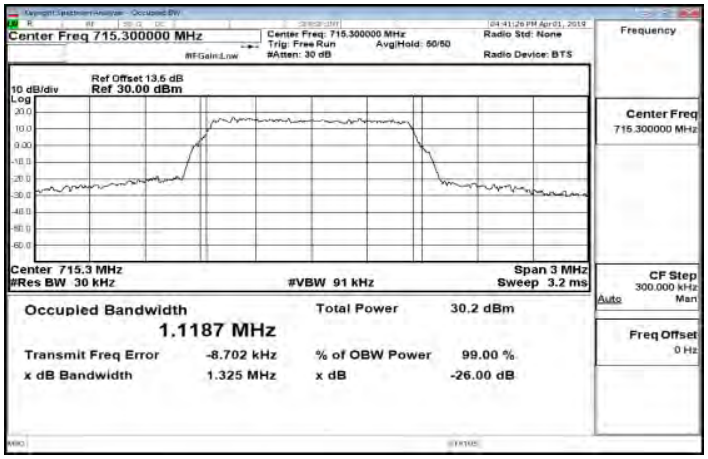
Band12_1_4MHz_QPSK_6_0_Main_MidCH23095-707.5



Band7_20MHz_16QAM_100_0_Main_HighCH21350-2560



Band12_1_4MHz_QPSK_6_0_Main_HighCH23173-715.3



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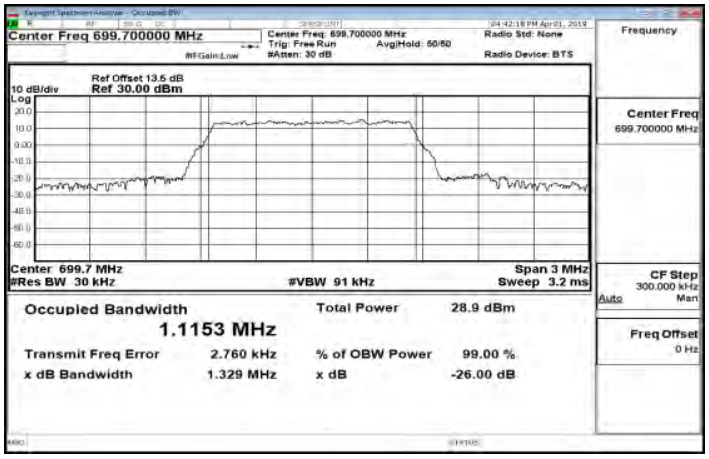
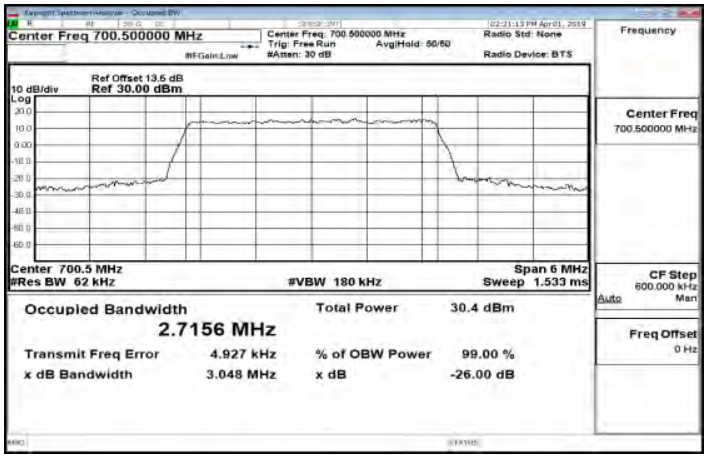
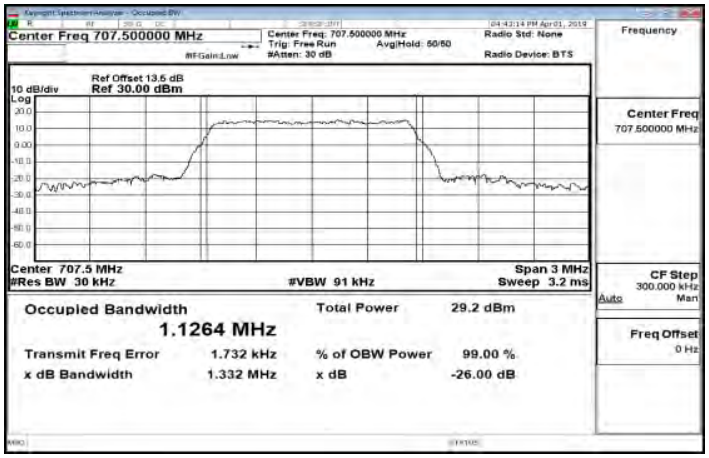
Band12_1_4MHz_16QAM_6_0_Main_LowCH23017-699.7



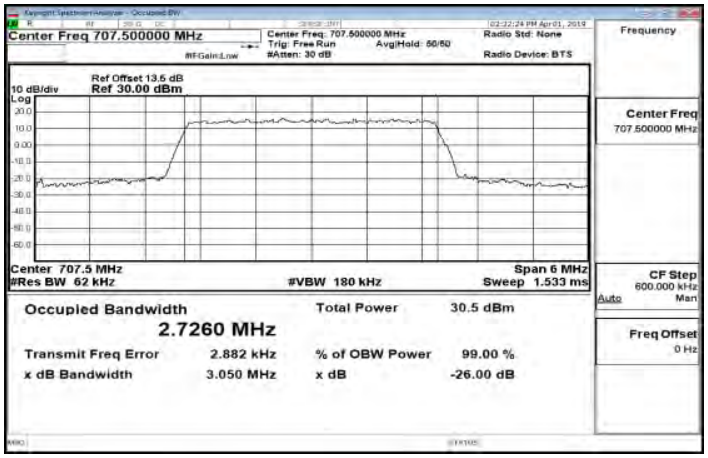
Band12_3MHz_QPSK_15_0_Main_LowCH23025-700.5



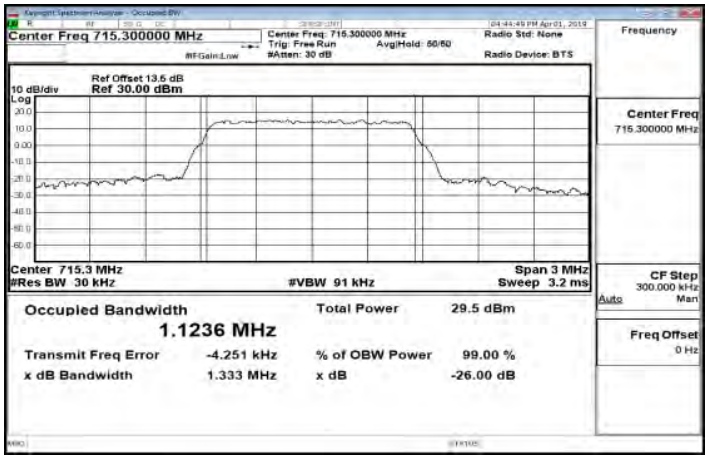
Band12_1_4MHz_16QAM_6_0_Main_MidCH23095-707.5



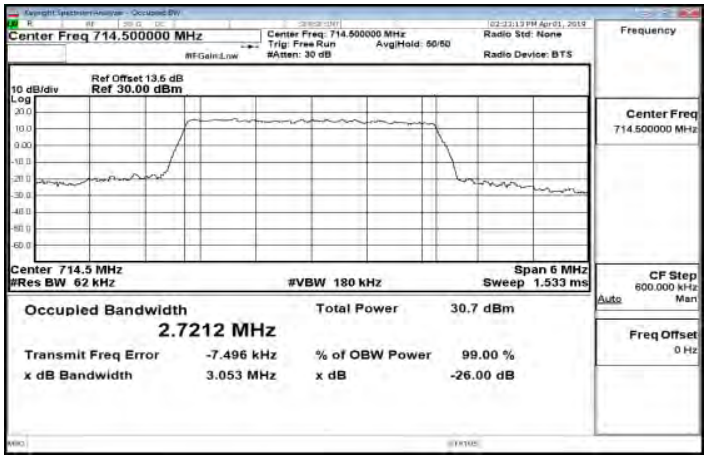
Band12_3MHz_QPSK_15_0_Main_MidCH23095-707.5



Band12_1_4MHz_16QAM_6_0_Main_HighCH23173-715.3



Band12_3MHz_QPSK_15_0_Main_HighCH23165-714.5



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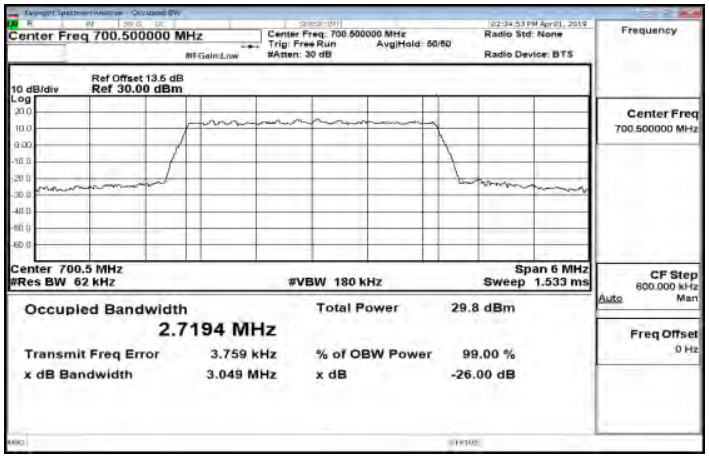
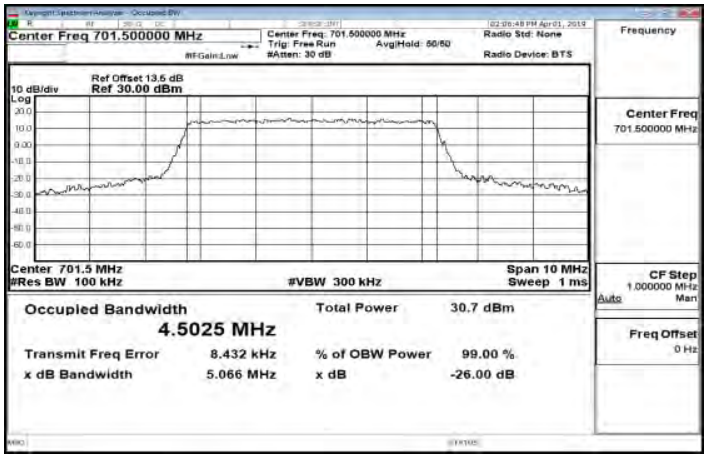
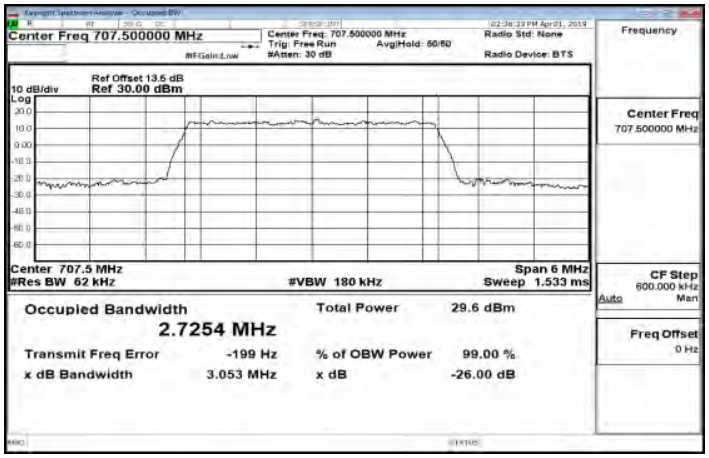
Band12_3MHz_16QAM_15_0_Main_LowCH23025-700.5



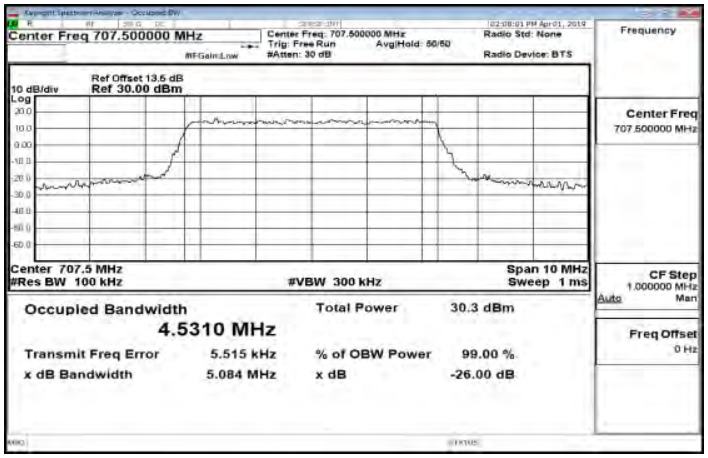
Band12_5MHz_QPSK_25_0_Main_LowCH23035-701.5



Band12_3MHz_16QAM_15_0_Main_MidCH23095-707.5



Band12_5MHz_QPSK_25_0_Main_MidCH23095-707.5



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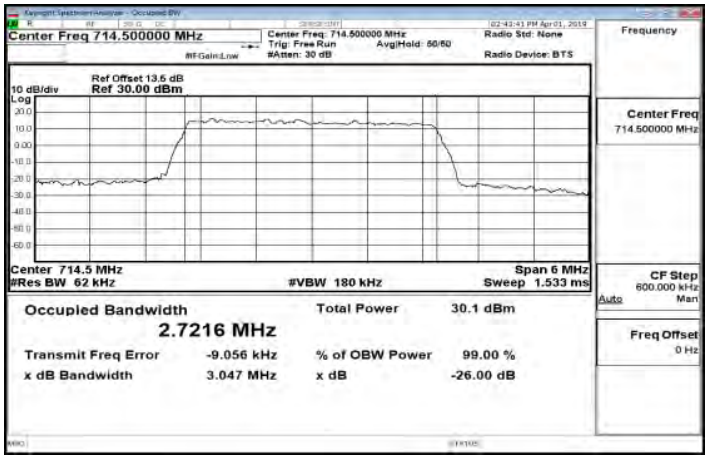
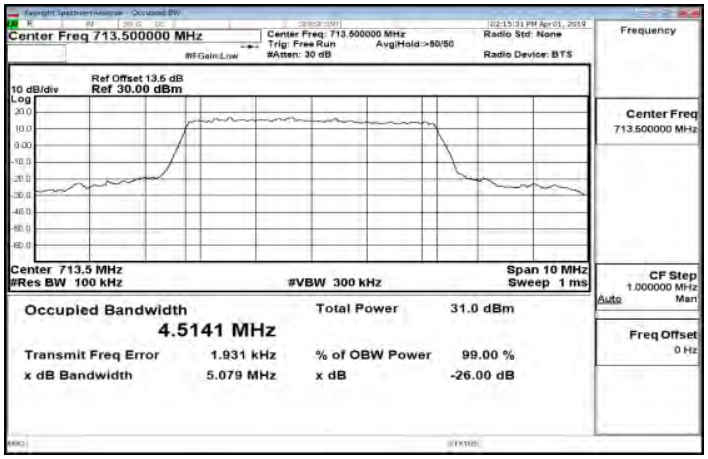


Band12_5MHz_QPSK_25_0_Main_HighCH23155-713.5



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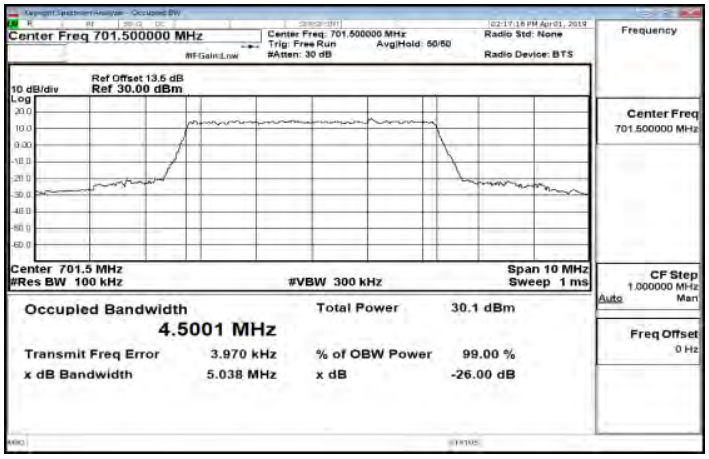
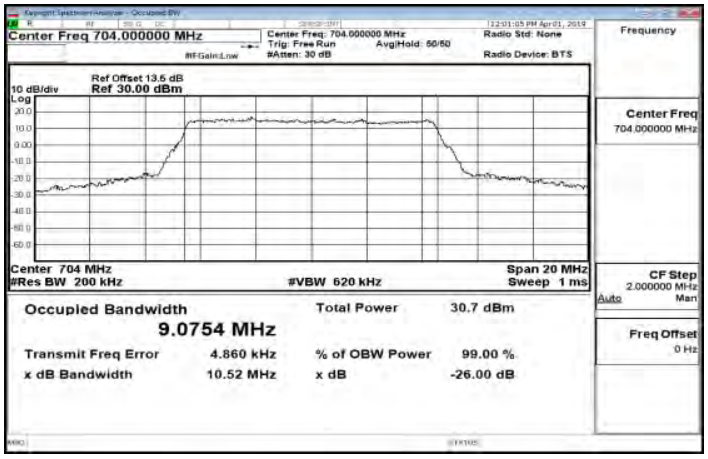
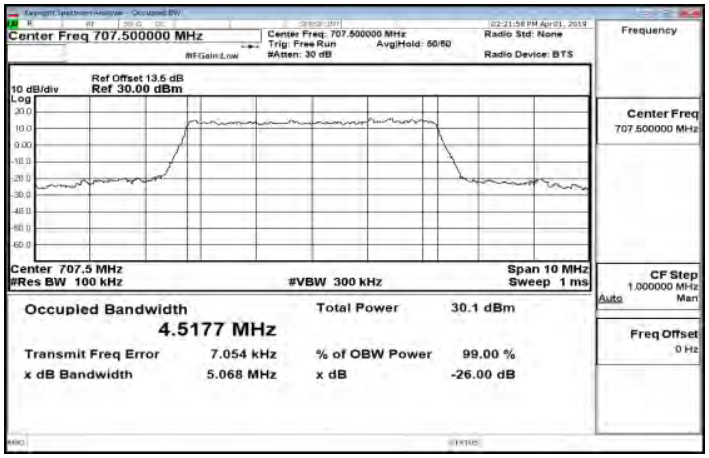
Band12_5MHz_16QAM_25_0_Main_LowCH23035-701.5



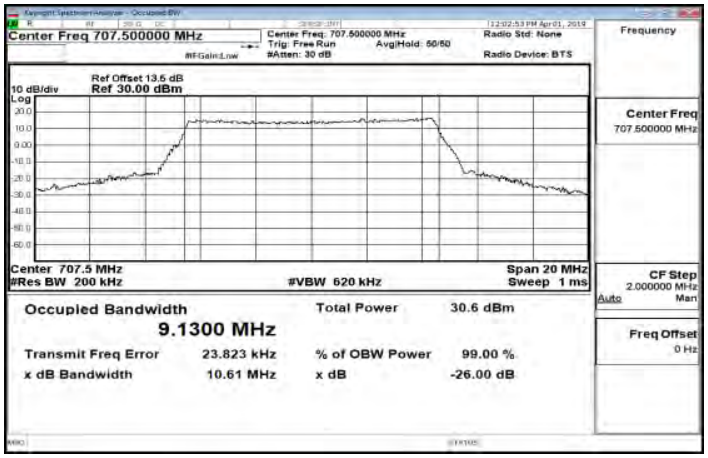
Band12_10MHz_QPSK_50_0_Main_LowCH23060-704



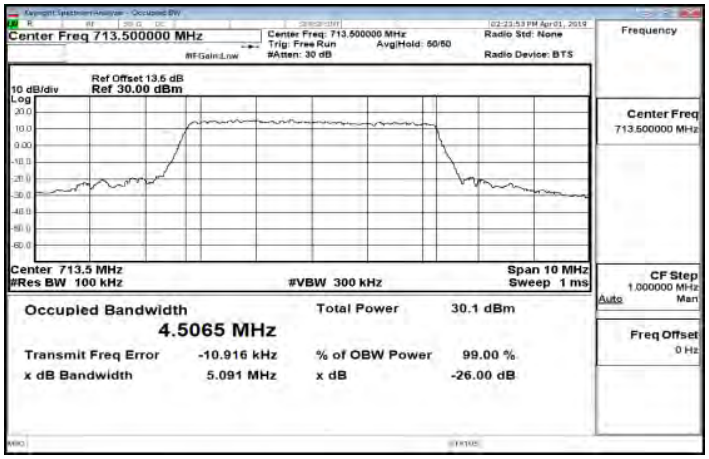
Band12_5MHz_16QAM_25_0_Main_MidCH23095-707.5



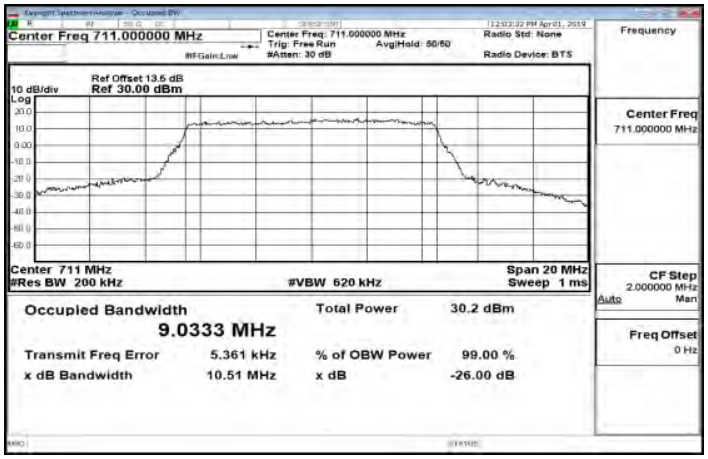
Band12_10MHz_QPSK_50_0_Main_MidCH23095-707.5



Band12_5MHz_16QAM_25_0_Main_HighCH23155-713.5



Band12_10MHz_QPSK_50_0_Main_HighCH23130-711



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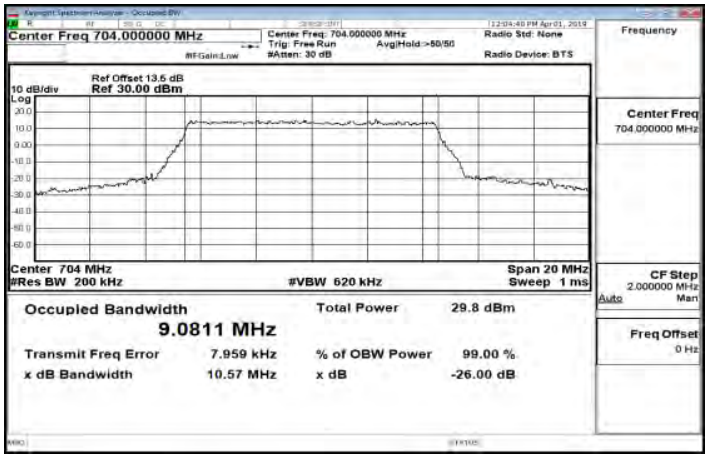
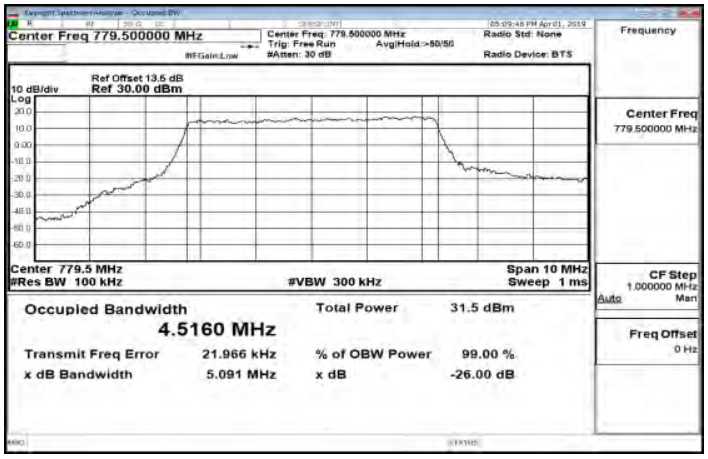
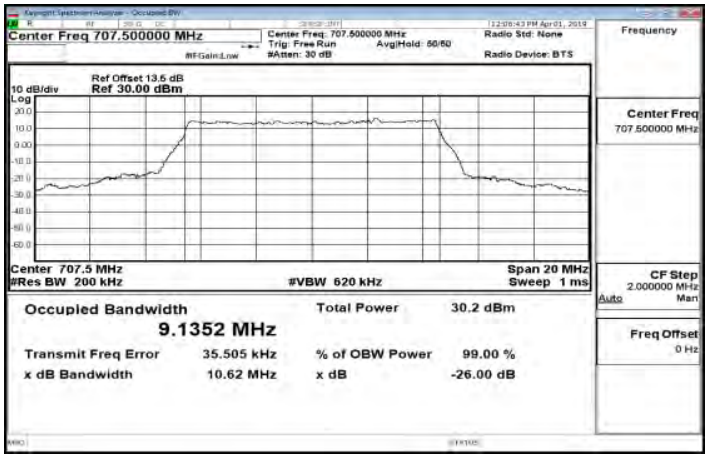
Band12_10MHz_16QAM_50_0_Main_LowCH23060-704



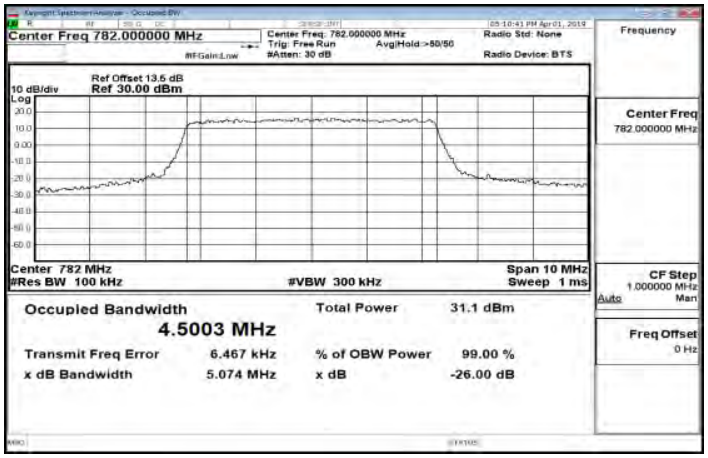
Band13_5MHz_QPSK_25_0_Main_LowCH23205-779.5



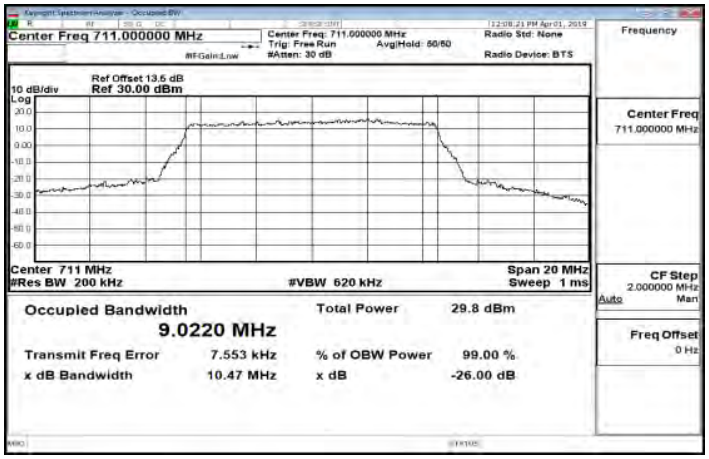
Band12_10MHz_16QAM_50_0_Main_MidCH23095-707.5



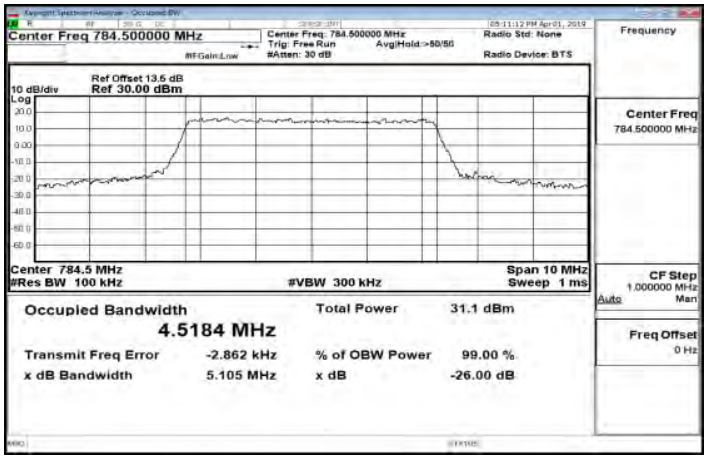
Band13_5MHz_QPSK_25_0_Main_MidCH23230-782



Band12_10MHz_16QAM_50_0_Main_HighCH23130-711



Band13_5MHz_QPSK_25_0_Main_HighCH23255-784.5



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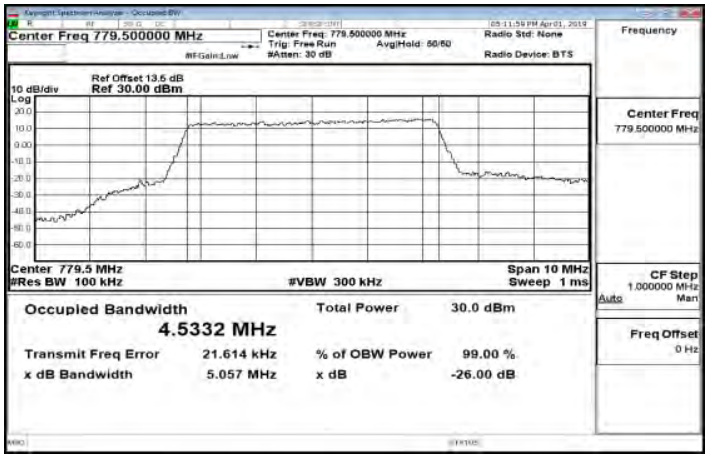
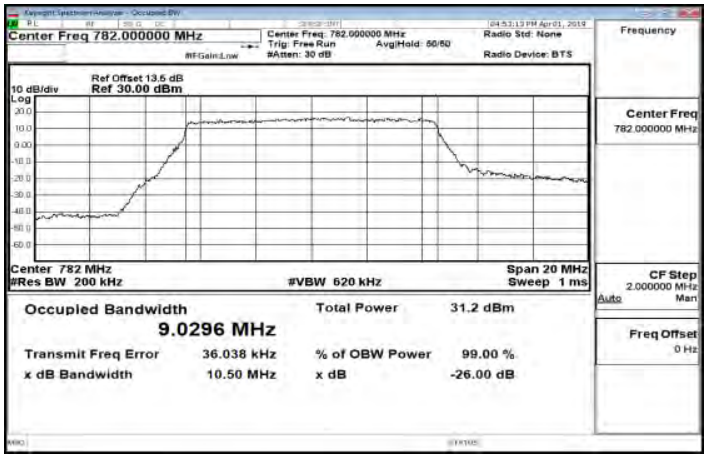
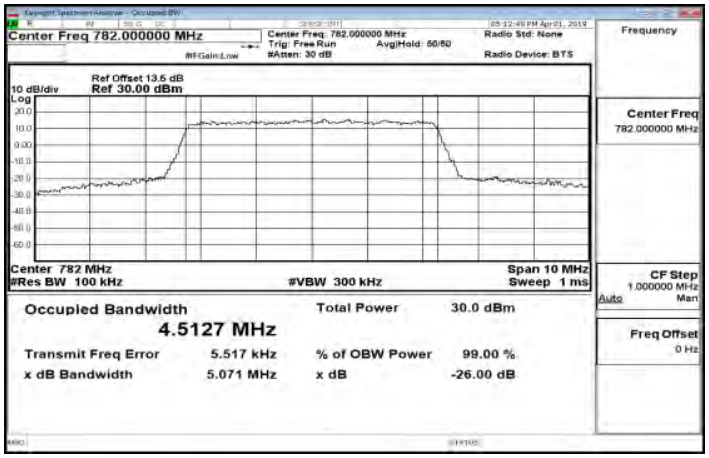
Band13_5MHz_16QAM_25_0_Main_LowCH23205-779.5



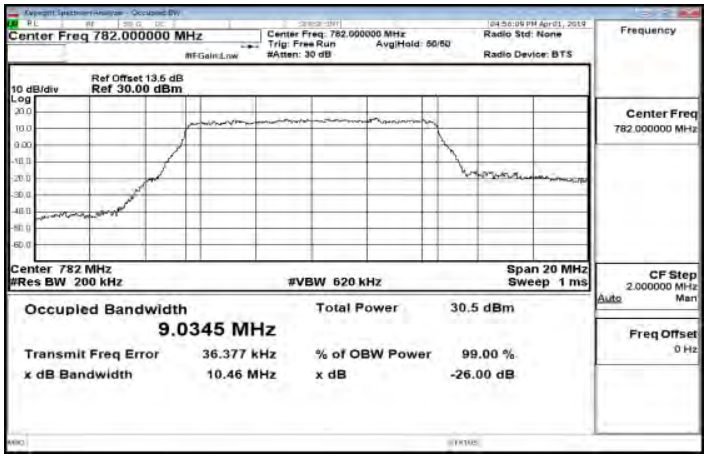
Band13_10MHz_QPSK_50_0_Main_MidCH23230-782



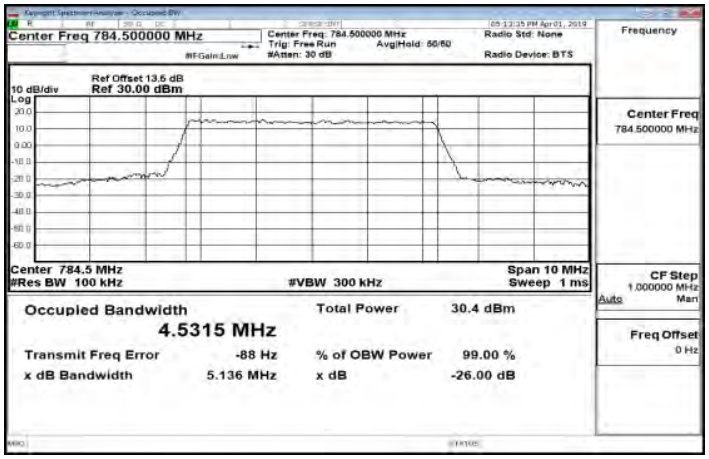
Band13_5MHz_16QAM_25_0_Main_MidCH23230-782



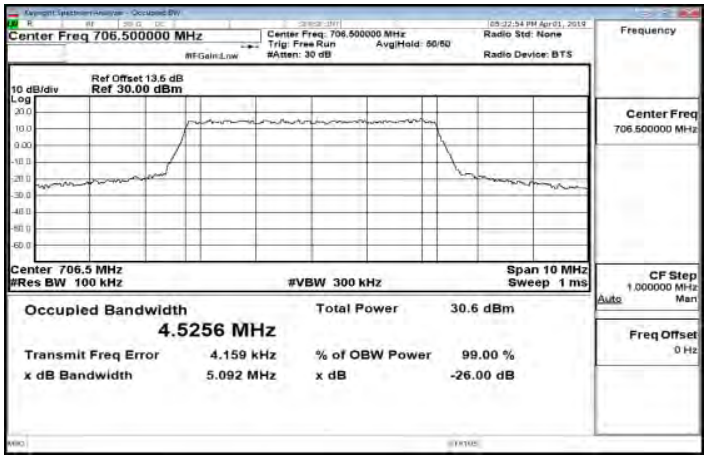
Band13_10MHz_16QAM_50_0_Main_MidCH23230-782



Band13_5MHz_16QAM_25_0_Main_HighCH23255-784.5



Band17_5MHz_QPSK_25_0_Main_LowCH23755-706.5



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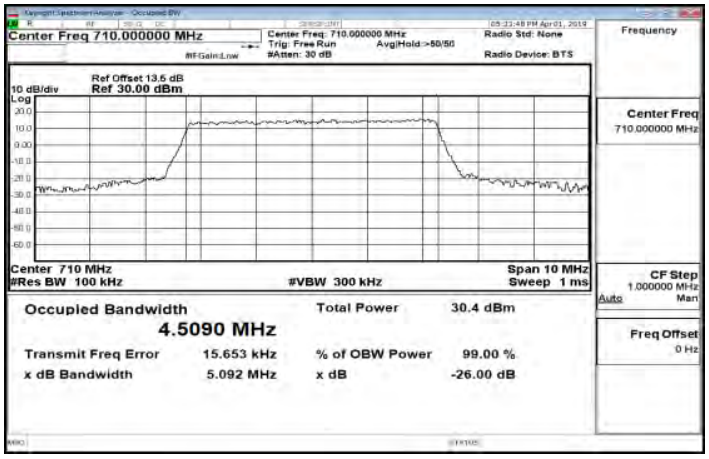
Band17_5MHz_QPSK_25_0_Main_MidCH23790-710



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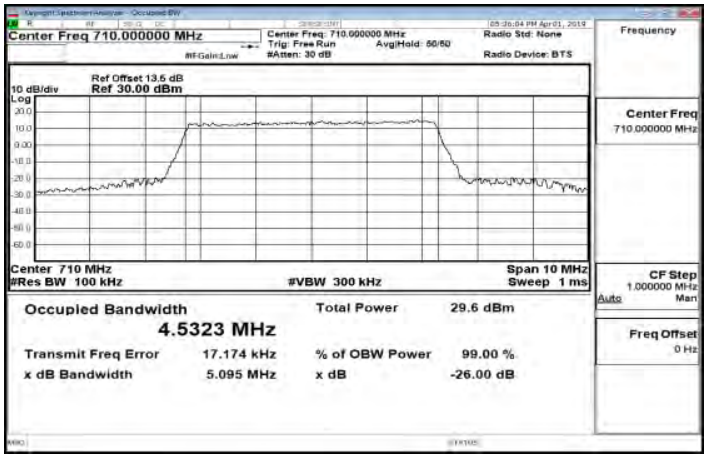
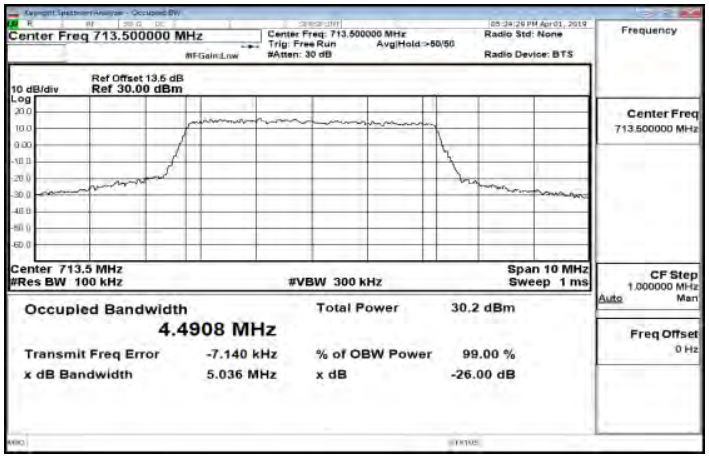
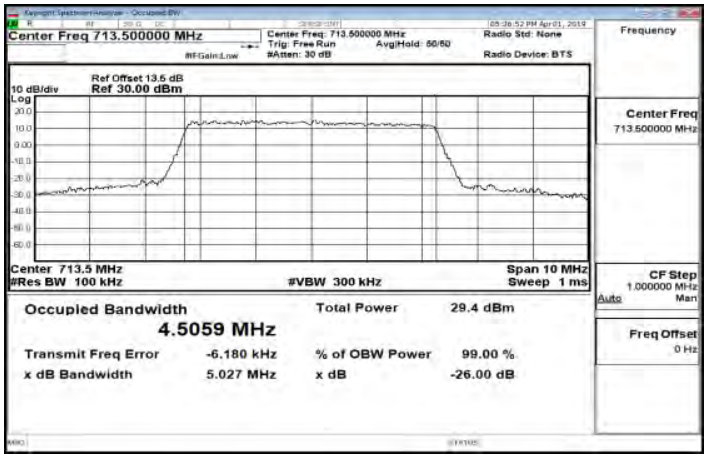


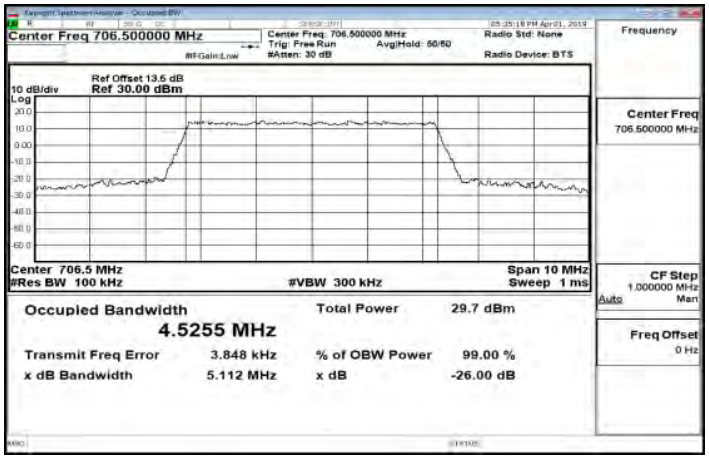
Band17_5MHz_QPSK_25_0_Main_HighCH23825-713.5



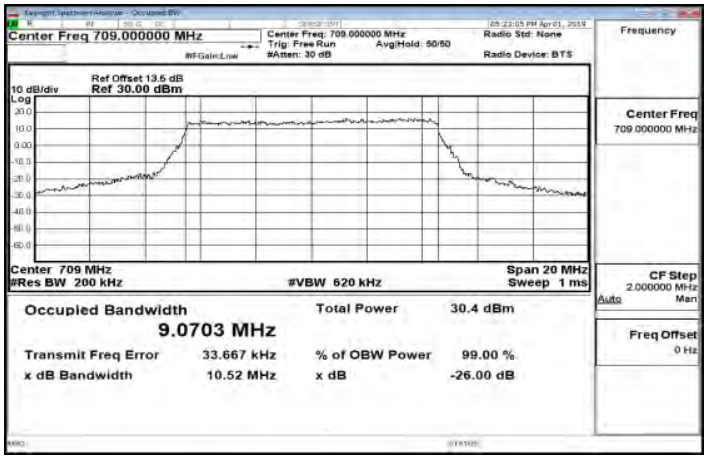
Band17_5MHz_16QAM_25_0_Main_HighCH23825-713.5



Band17_5MHz_16QAM_25_0_Main_LowCH23755-706.5



Band17_10MHz_QPSK_50_0_Main_LowCH23780-709



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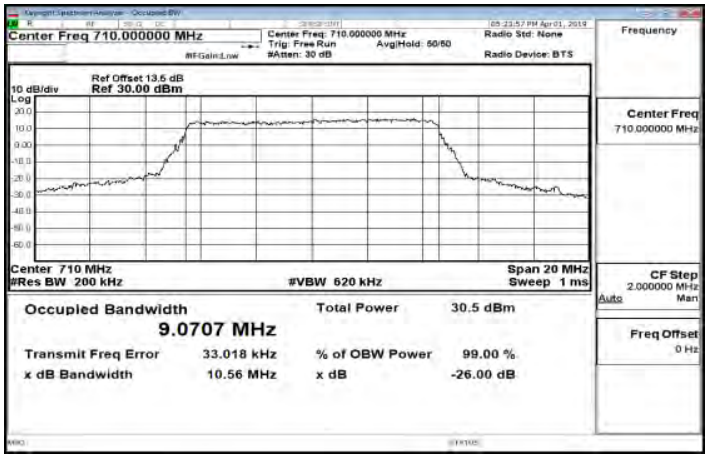
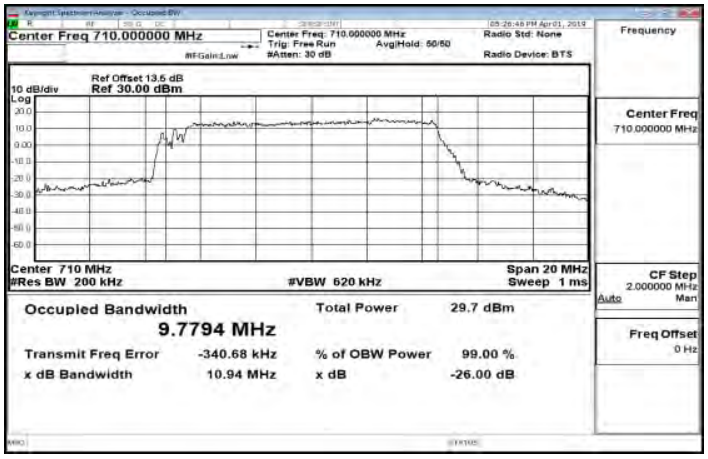
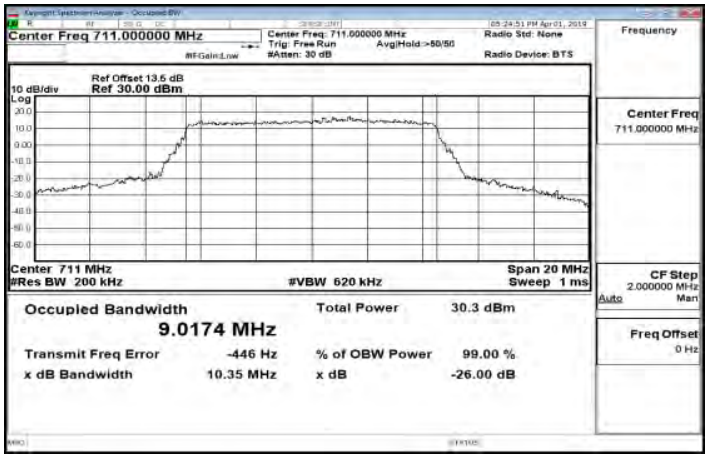
Band17_10MHz_QPSK_50_0_Main_MidCH23790-710



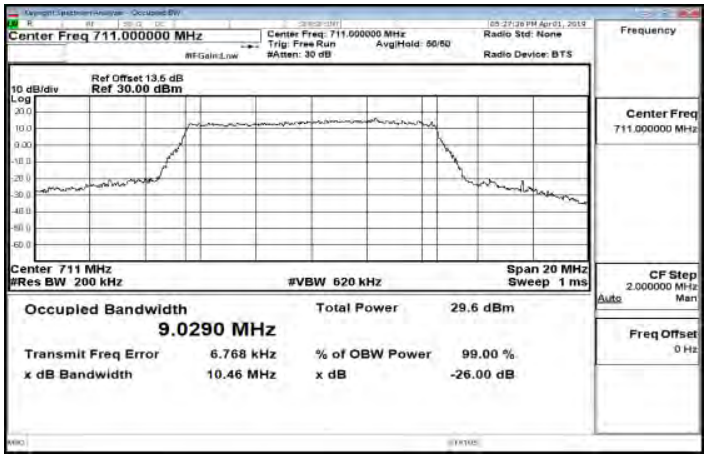
Band17_10MHz_16QAM_50_0_Main_MidCH23790-710



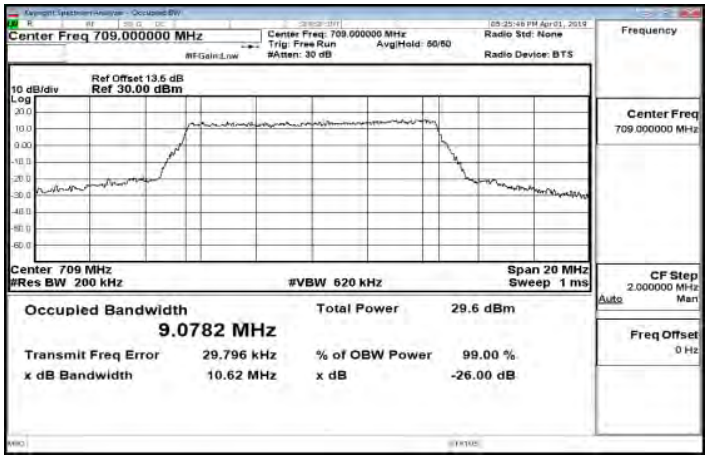
Band17_10MHz_QPSK_50_0_Main_HighCH23800-711



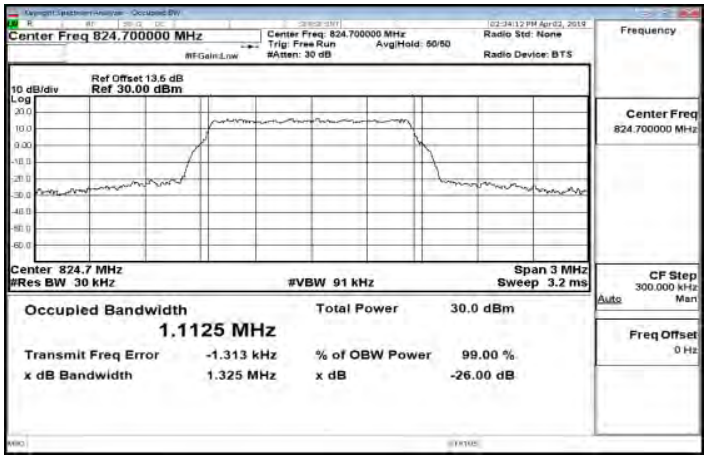
Band17_10MHz_16QAM_50_0_Main_HighCH23800-711



Band17_10MHz_16QAM_50_0_Main_LowCH23780-709



Band26_1_4MHz_QPSK_6_0_Main_LowCH26797-824.7



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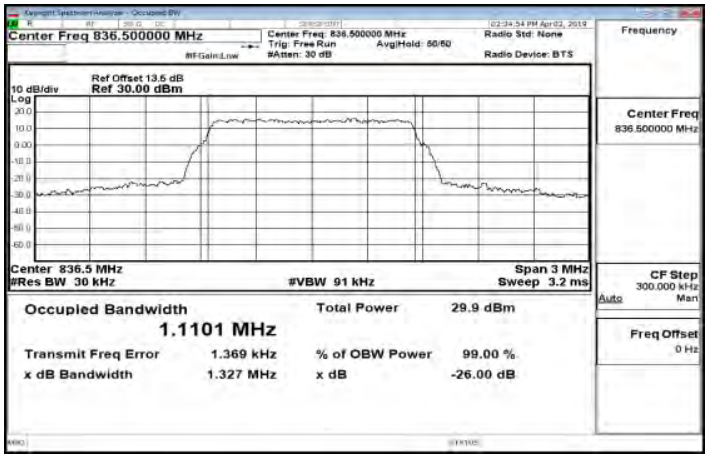
Band26_1_4MHz_QPSK_6_0_Main_MidCH26915-836.5



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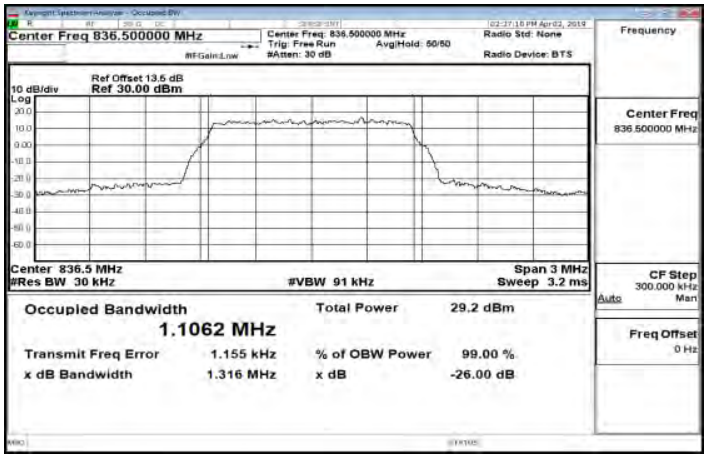
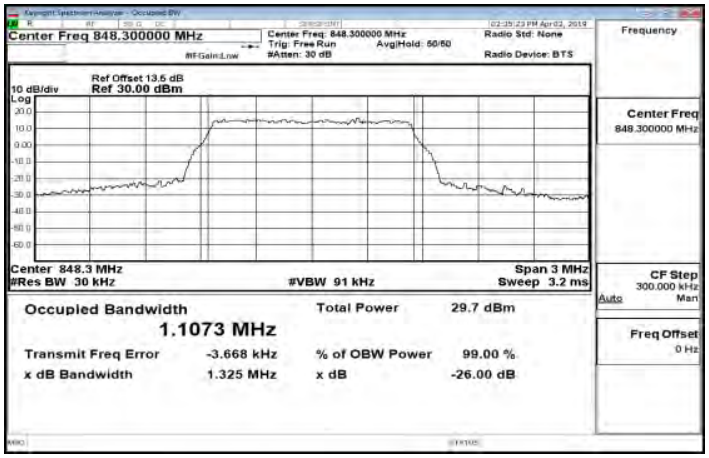
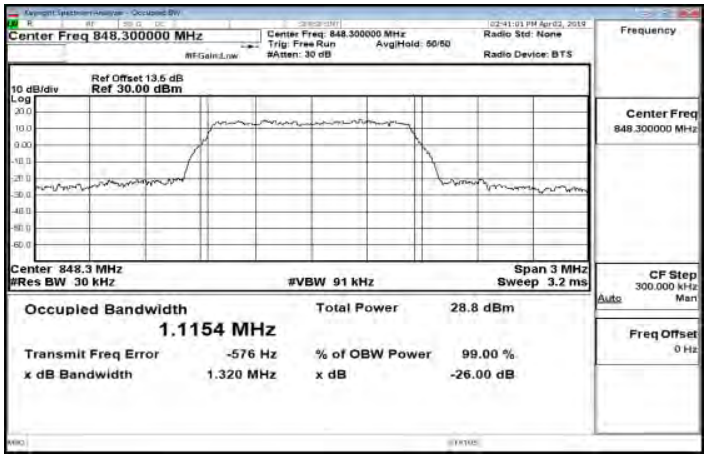


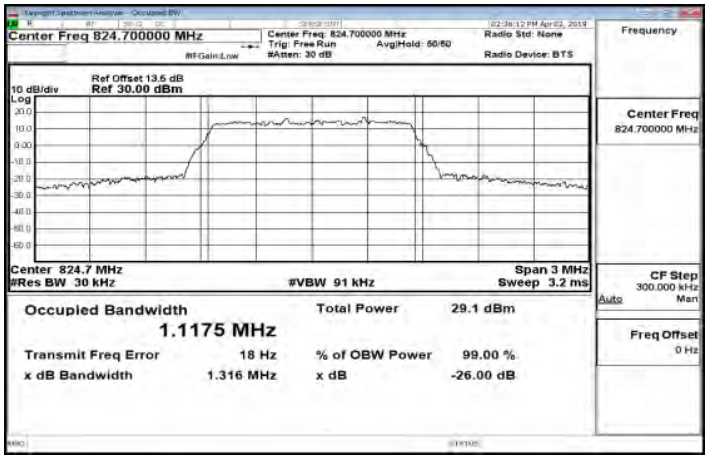
Band26_1_4MHz_QPSK_6_0_Main_HighCH27033-848.3



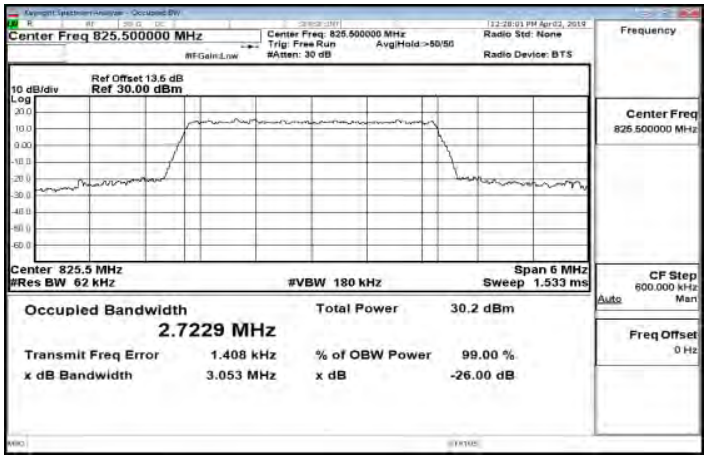
Band26_1_4MHz_16QAM_6_0_Main_HighCH27033-848.3



Band26_1_4MHz_16QAM_6_0_Main_LowCH26797-824.7



Band26_3MHz_QPSK_15_0_Main_LowCH26805-825.5



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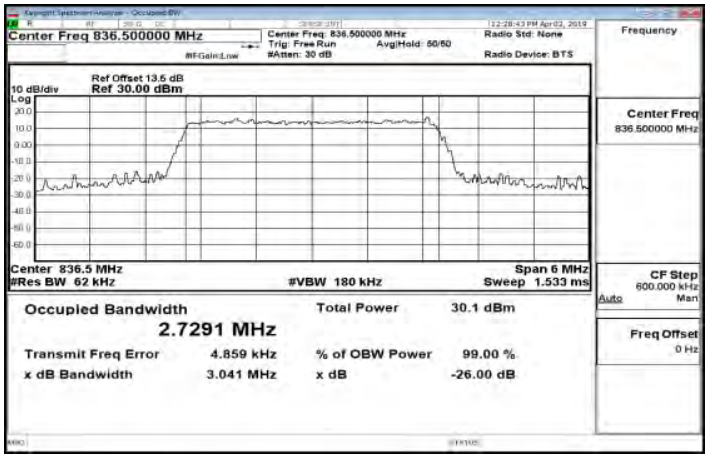
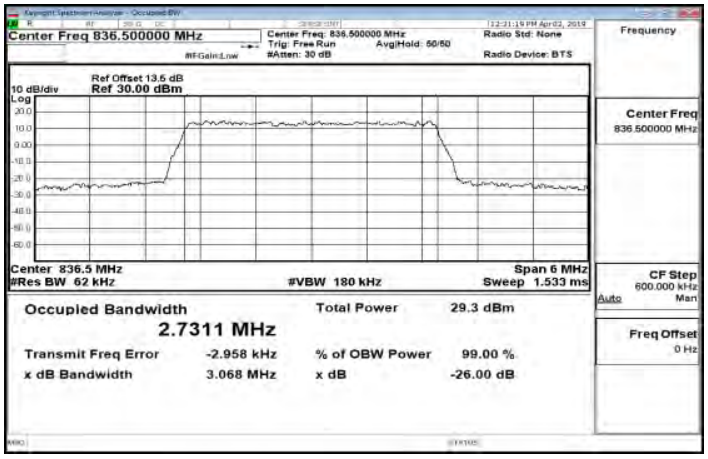
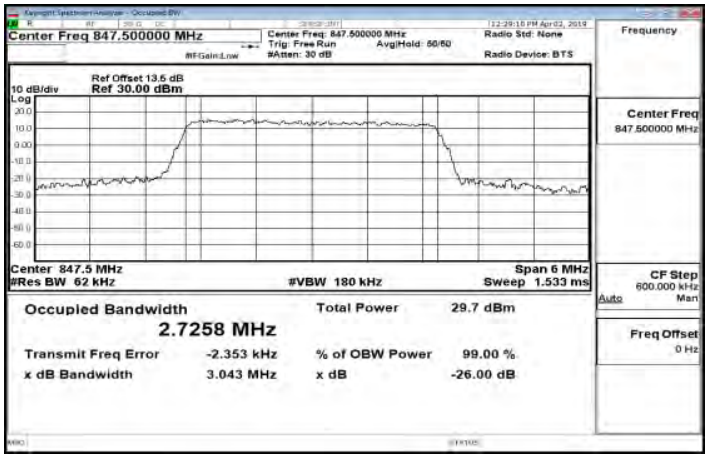
Band26_3MHz_QPSK_15_0_Main_MidCH26915-836.5



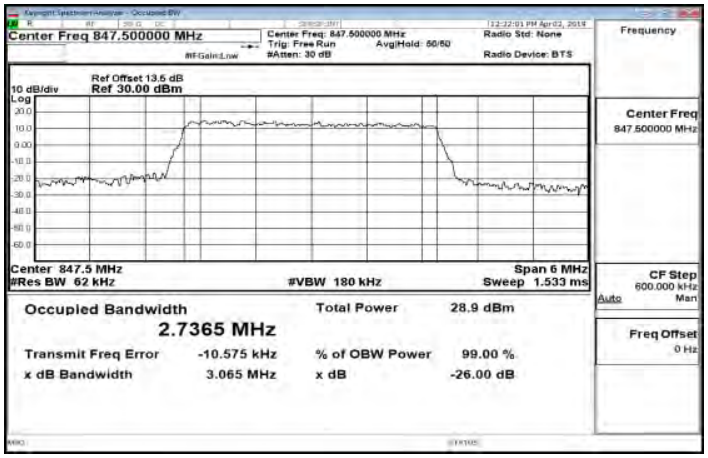
Band26_3MHz_16QAM_15_0_Main_MidCH26915-836.5



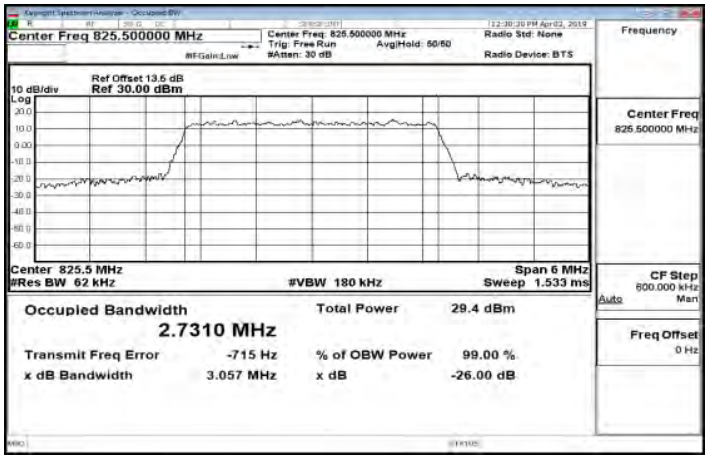
Band26_3MHz_QPSK_15_0_Main_HighCH27025-847.5



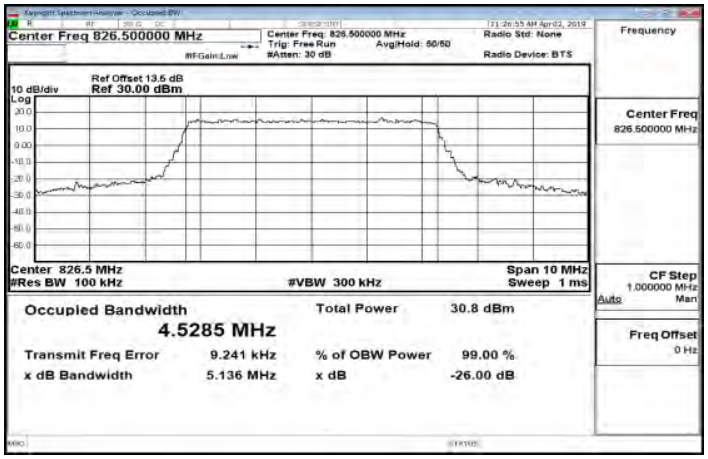
Band26_3MHz_16QAM_15_0_Main_HighCH27025-847.5



Band26_3MHz_16QAM_15_0_Main_LowCH26805-825.5



Band26_5MHz_QPSK_25_0_Main_LowCH26815-826.5



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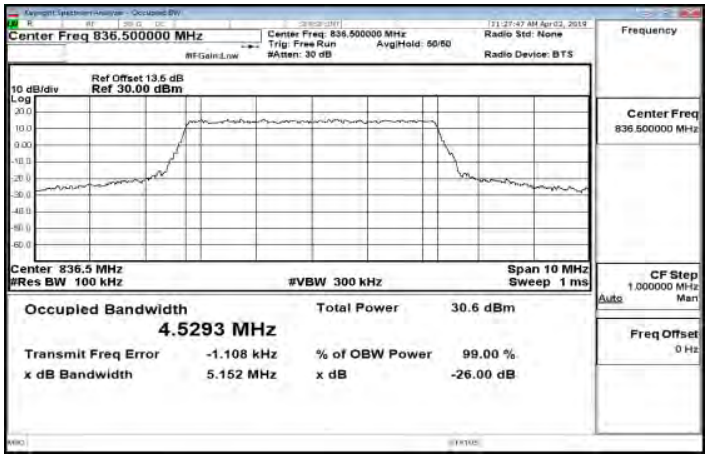
Band26_5MHz_QPSK_25_0_Main_MidCH26915-836.5



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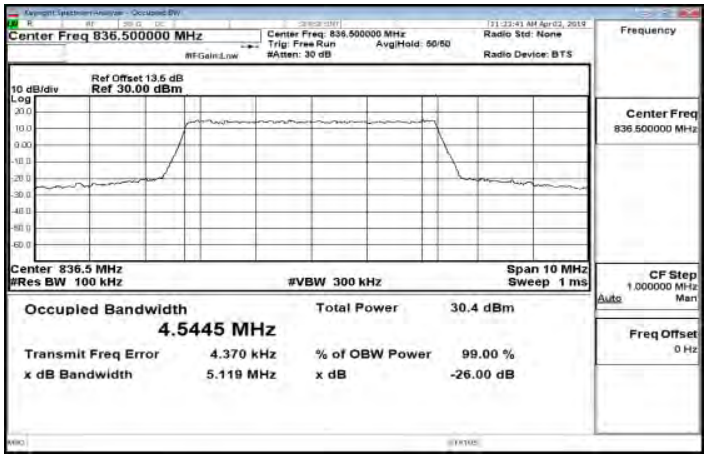

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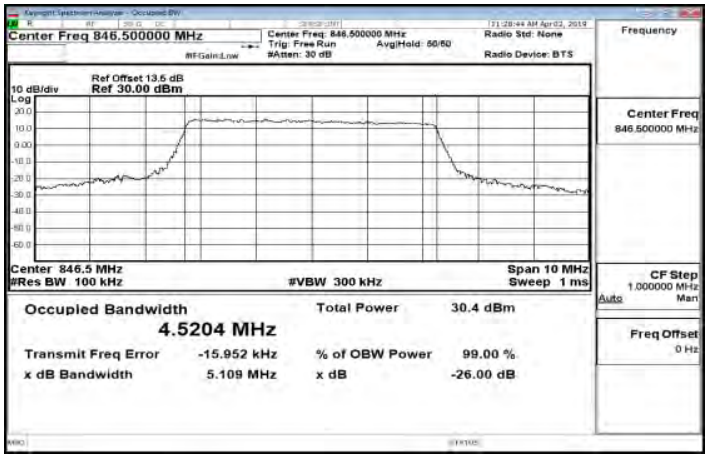

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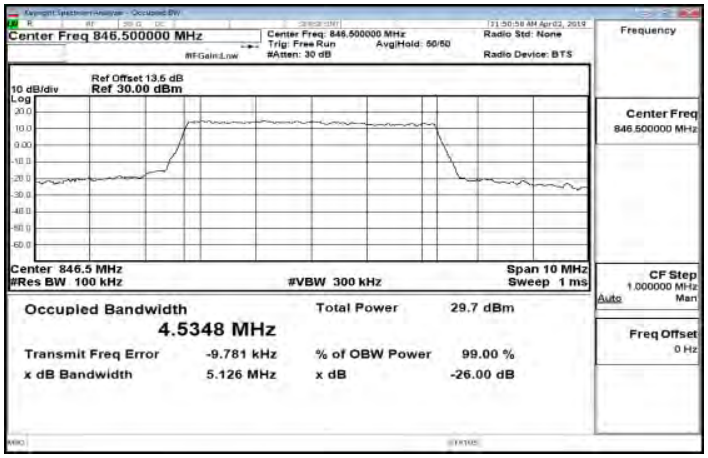
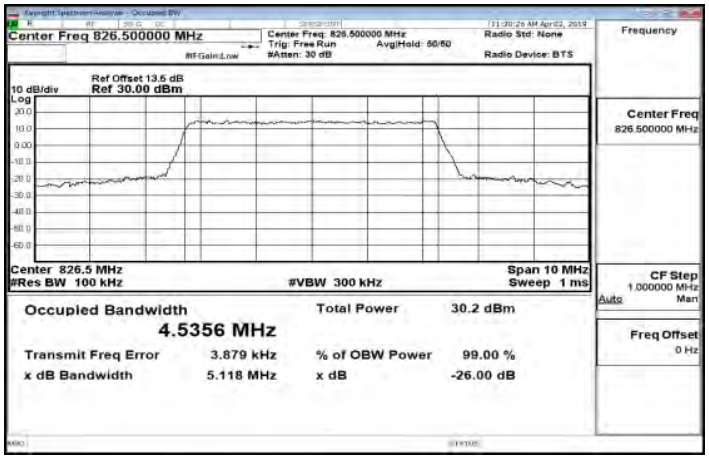
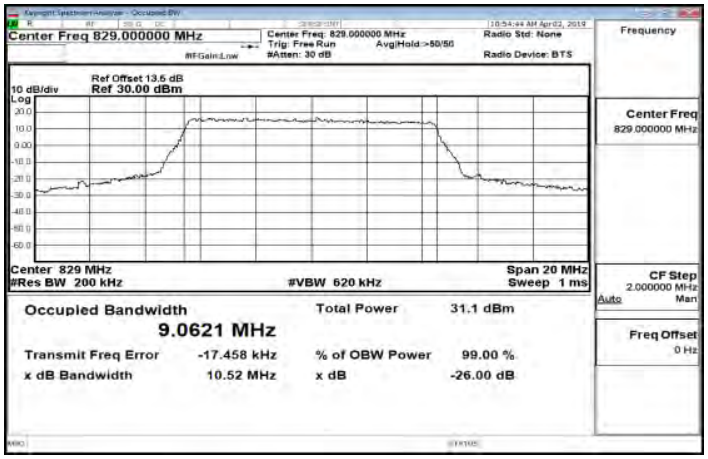


Band26_5MHz_16QAM_25_0_Main_LowCH26815-826.5



Band26_10MHz_QPSK_50_0_Main_LowCH26840-829



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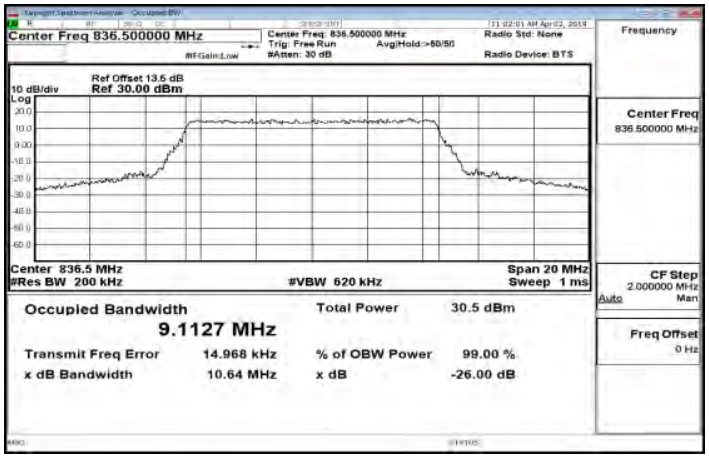
Band26_10MHz_QPSK_50_0_Main_MidCH26915-836.5



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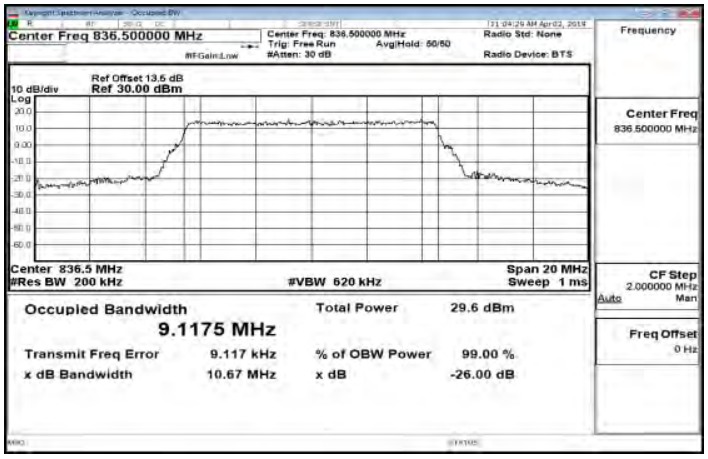

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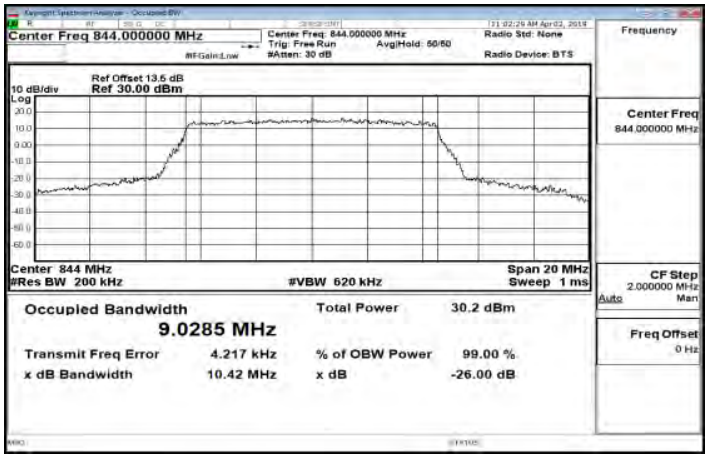

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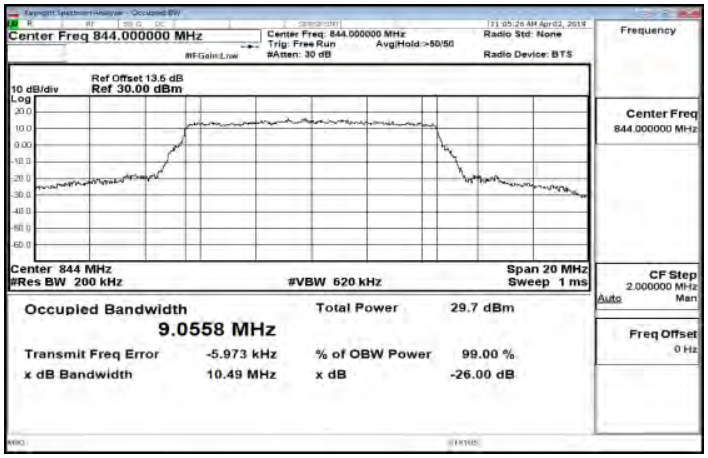
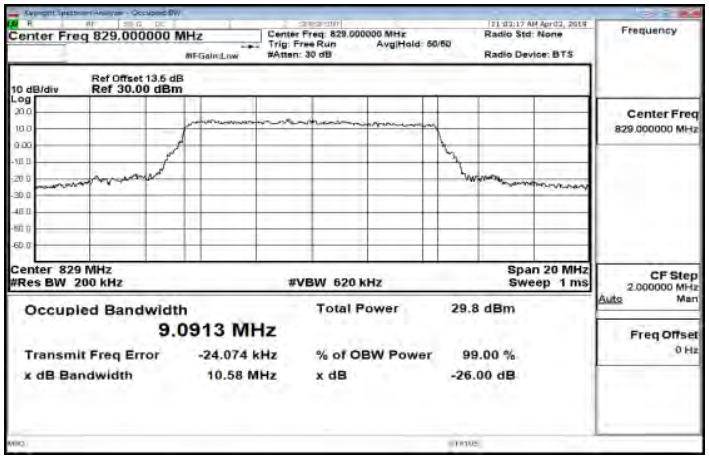
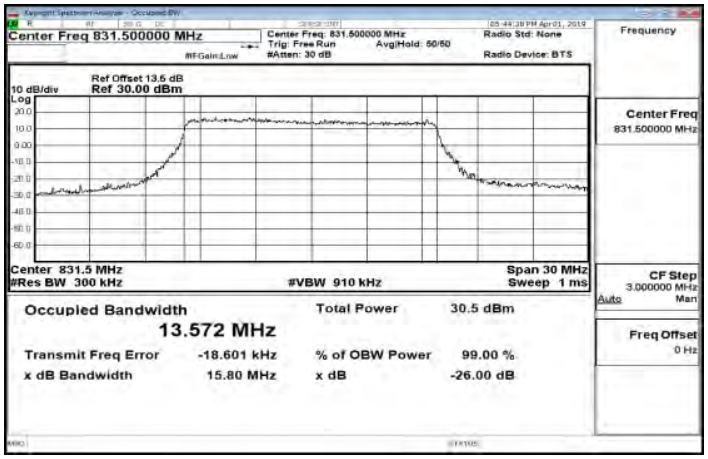


Band26_10MHz_16QAM_50_0_Main_LowCH26840-829



Band26_15MHz_QPSK_75_0_Main_LowCH26865-831.5



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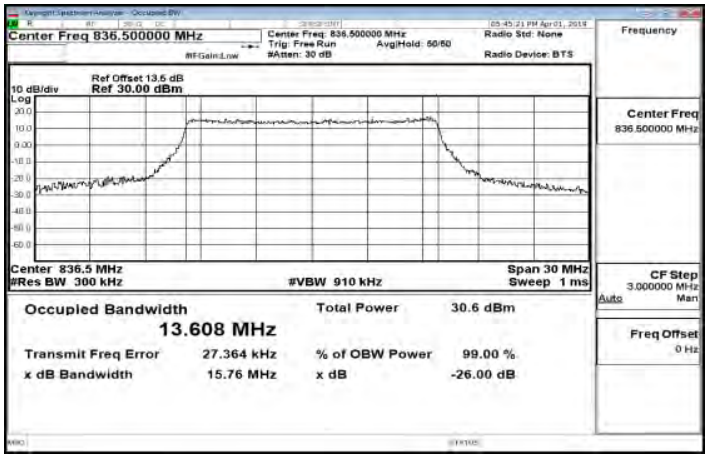
Band26_15MHz_QPSK_75_0_Main_MidCH26915-836.5



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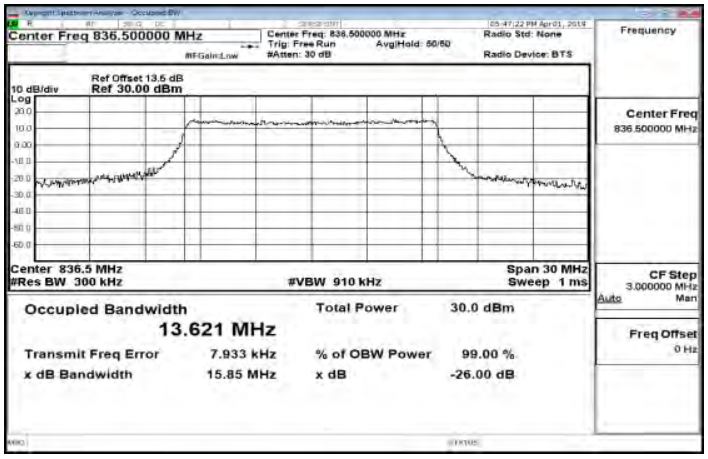
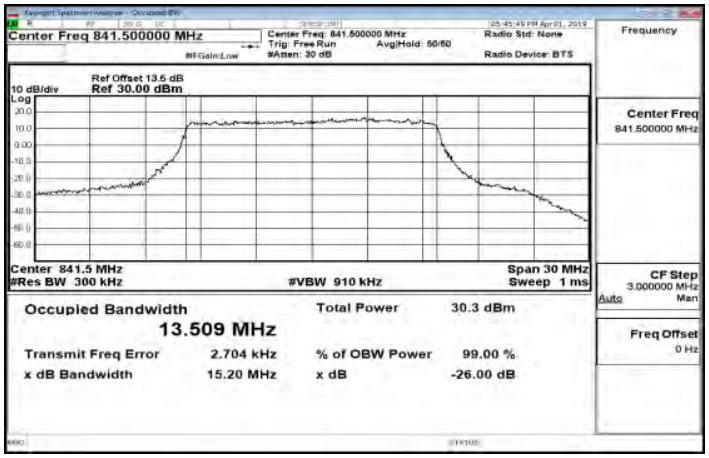
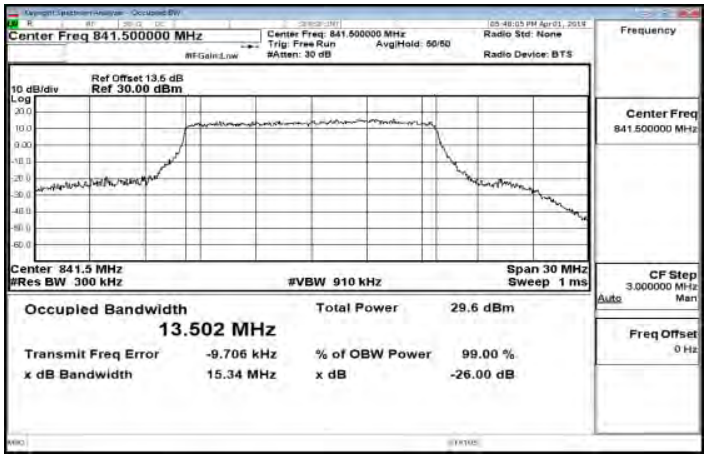


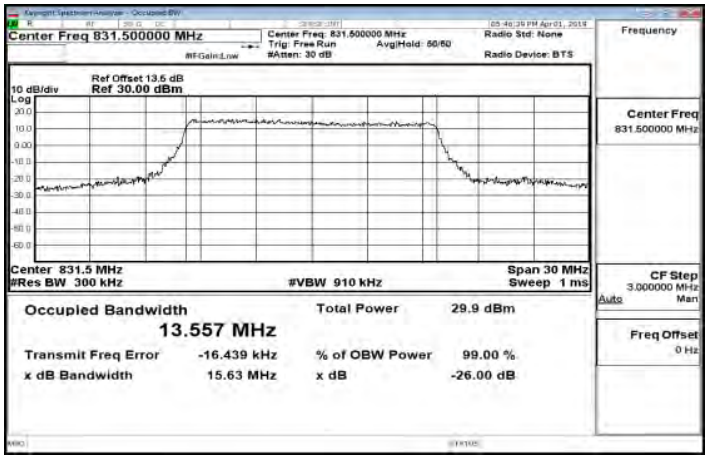
Band26_15MHz_QPSK_75_0_Main_HighCH26965-841.5



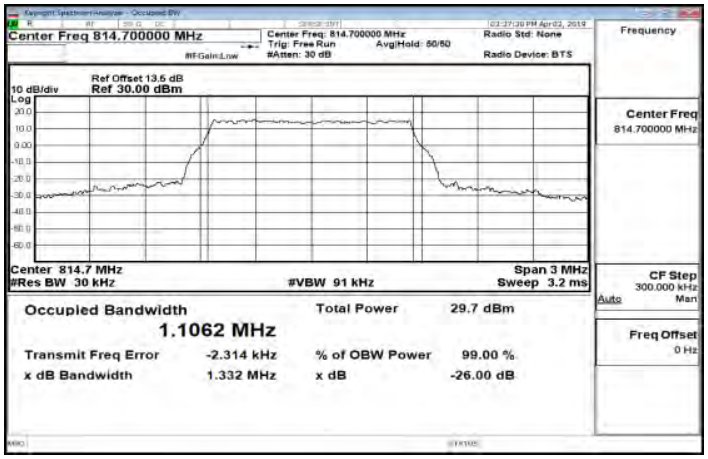
Band26_15MHz_16QAM_75_0_Main_HighCH26965-841.5



Band26_15MHz_16QAM_75_0_Main_LowCH26865-831.5



Band26_Part90s_1_4MHz_QPSK_6_0_Main_LowCH26697-814.7



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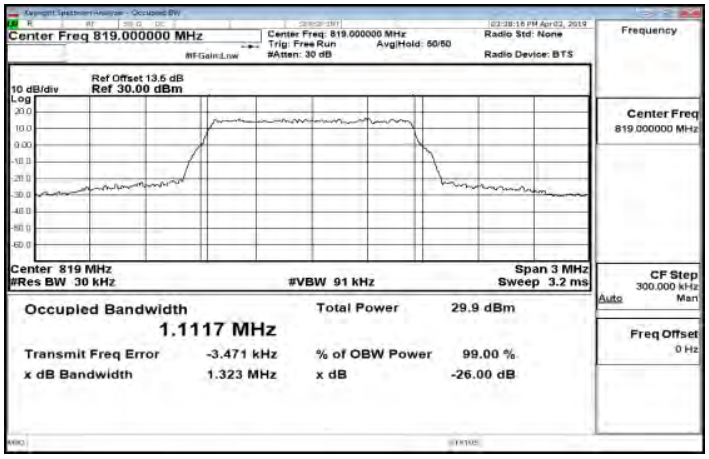
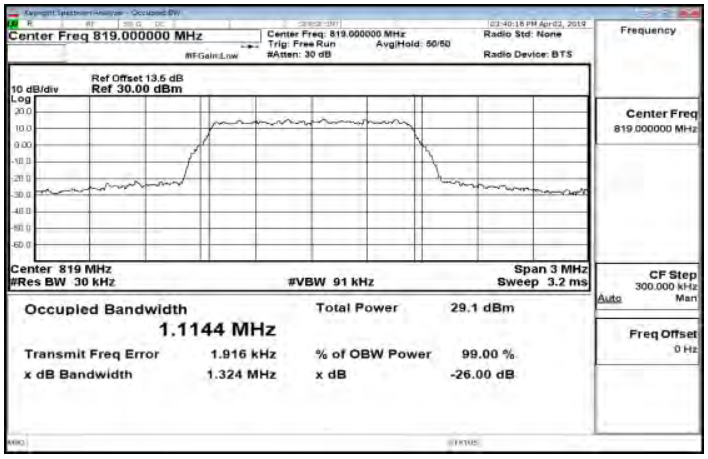
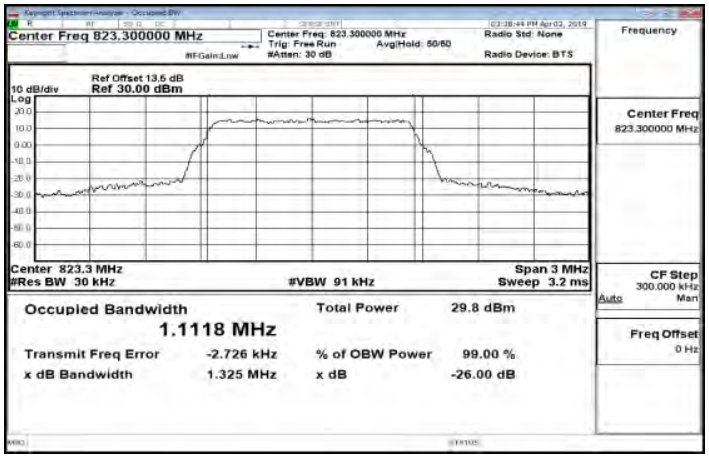
Band26_Part90s_1_4MHz_QPSK_6_0_Main_MidCH26740-819



Band26_Part90s_1_4MHz_16QAM_6_0_Main_MidCH26740-819



Band26_Part90s_1_4MHz_QPSK_6_0_Main_HighCH26783-823.3



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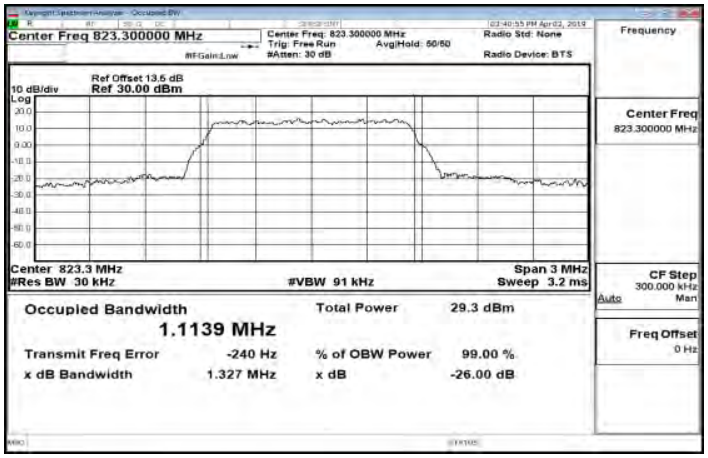
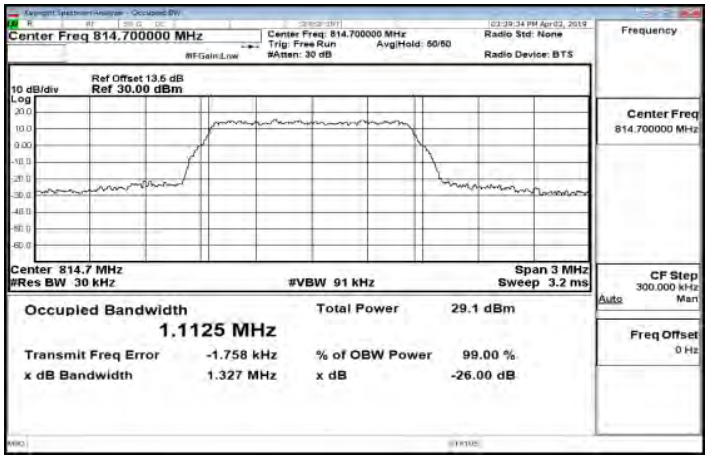
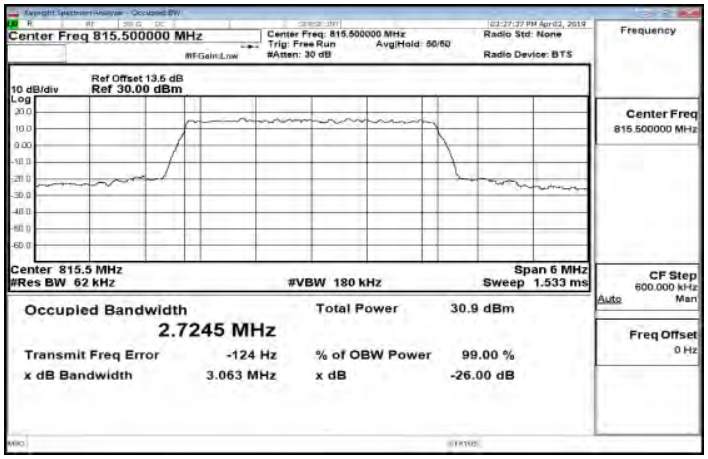


Band26_Part90s_1_4MHz_16QAM_6_0_Main_LowCH26697-814.7



Band26_Part90s_3MHz_QPSK_15_0_Main_LowCH26705-815.5



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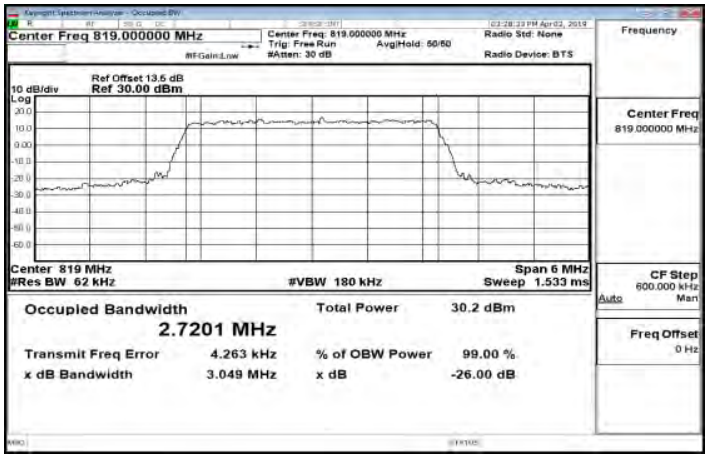
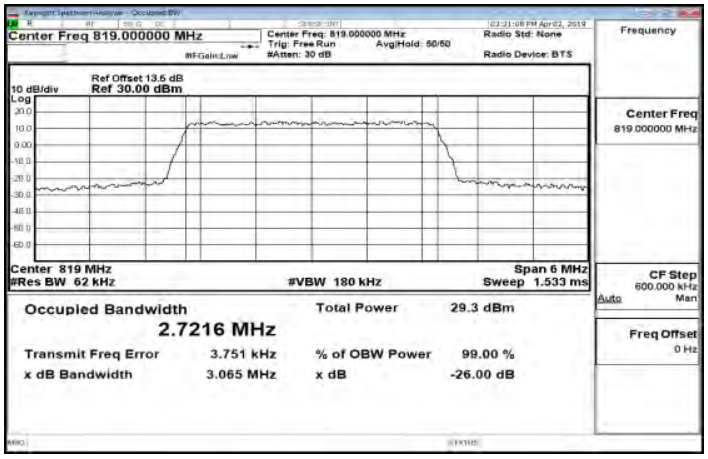
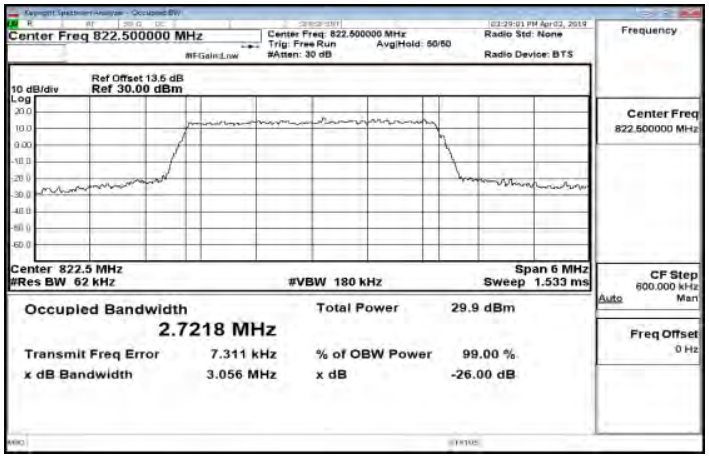
Band26_Part90s_3MHz_QPSK_15_0_Main_MidCH26740-819



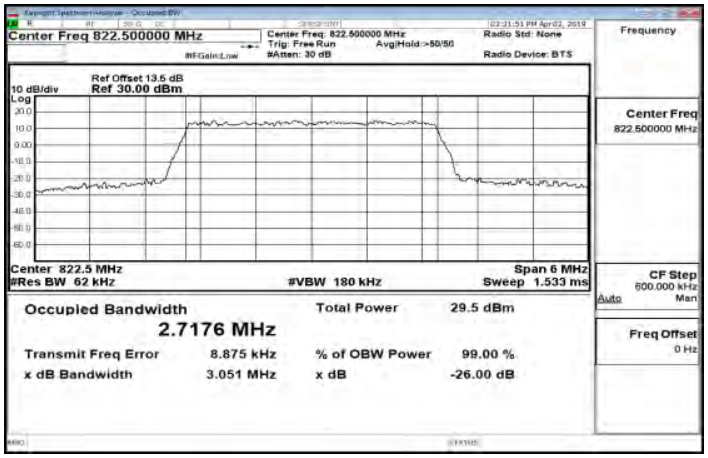
Band26_Part90s_3MHz_16QAM_15_0_Main_MidCH26740-819



Band26_Part90s_3MHz_QPSK_15_0_Main_HighCH26775-822.5



Band26_Part90s_3MHz_16QAM_15_0_Main_HighCH26775-822.5



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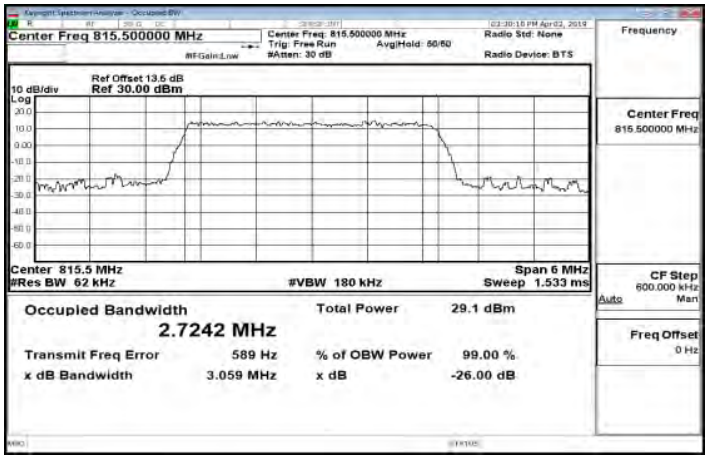
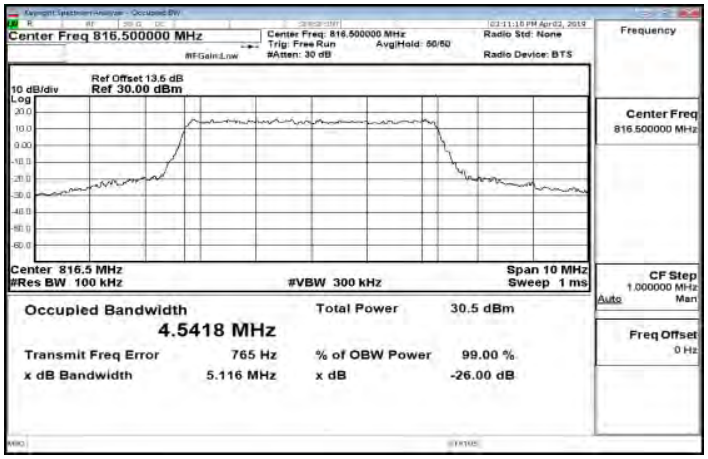


Band26_Part90s_5MHz_QPSK_25_0_Main_LowCH26715-816.5



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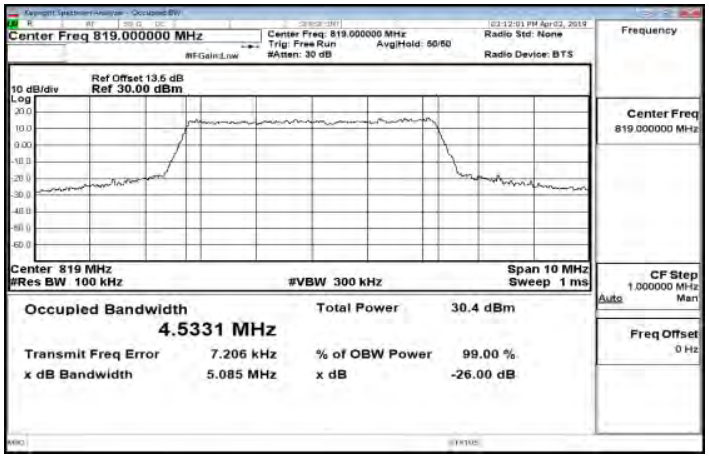
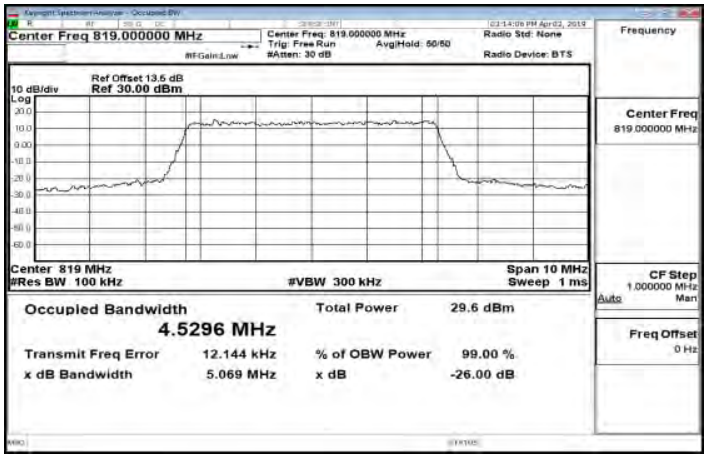
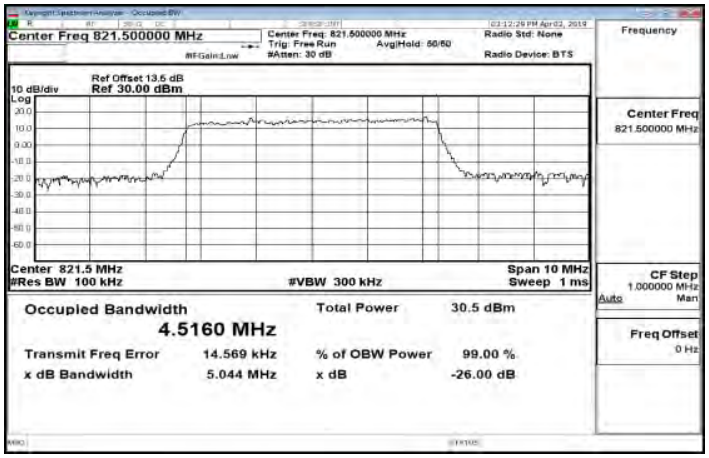
Band26_Part90s_5MHz_QPSK_25_0_Main_MidCH26740-819



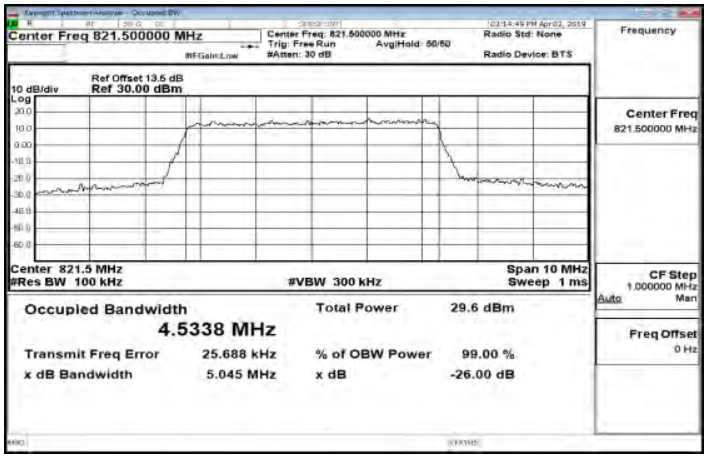
Band26_Part90s_5MHz_16QAM_25_0_Main_MidCH26740-819



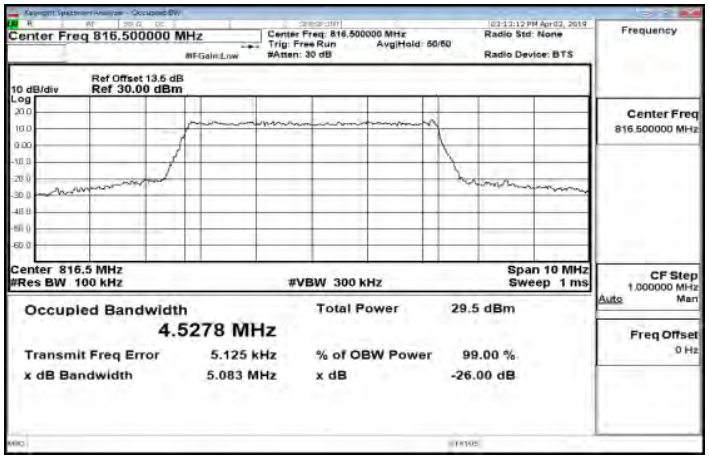
Band26_Part90s_5MHz_QPSK_25_0_Main_HighCH26765-821.5



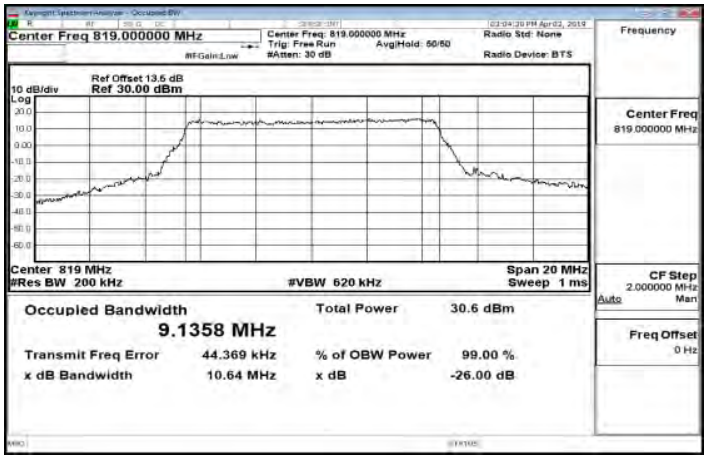
Band26_Part90s_5MHz_16QAM_25_0_Main_HighCH26765-821.5



Band26_Part90s_5MHz_16QAM_25_0_Main_LowCH26715-816.5



Band26_Part90s_10MHz_QPSK_50_0_Main_MidCH26740-819



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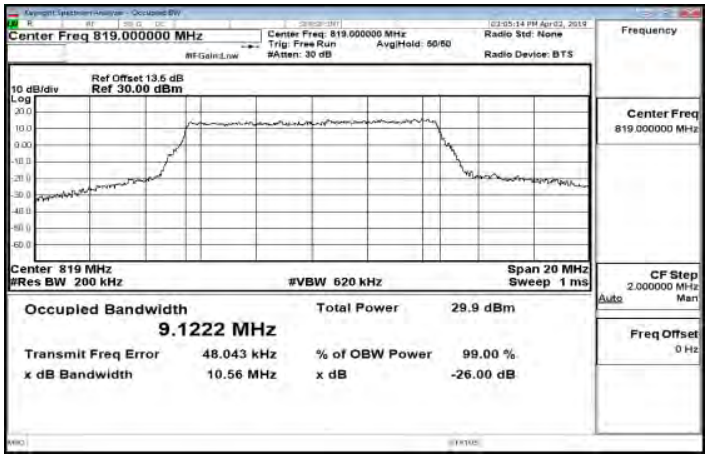
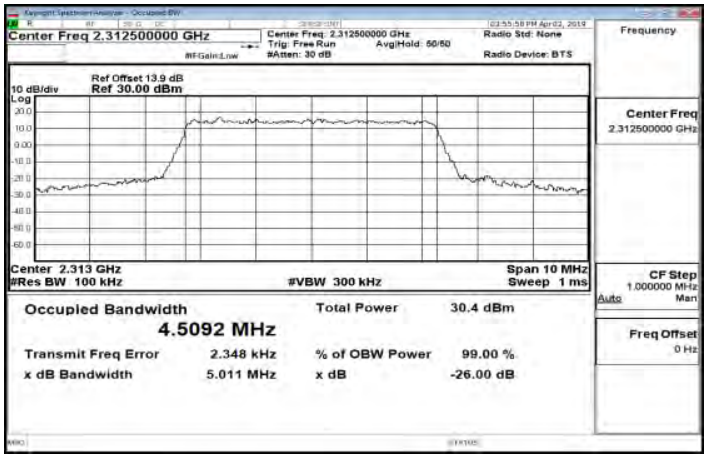
Band26_Part90s_10MHz_16QAM_50_0_Main_MidCH26740-819



Band30_5MHz_QPSK_25_0_Main_HighCH27735-2312.5



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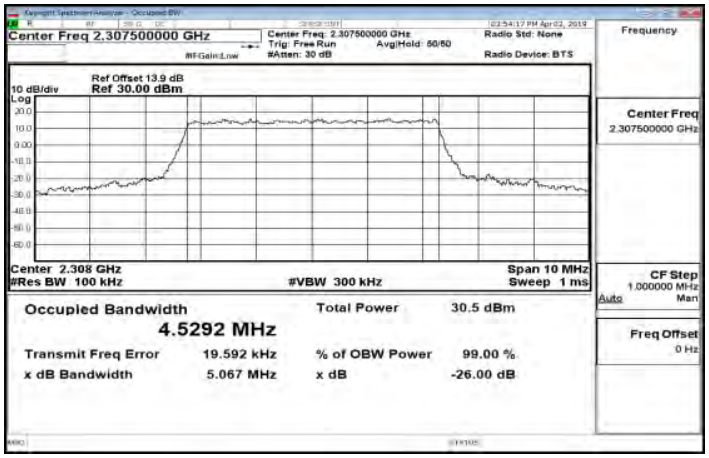

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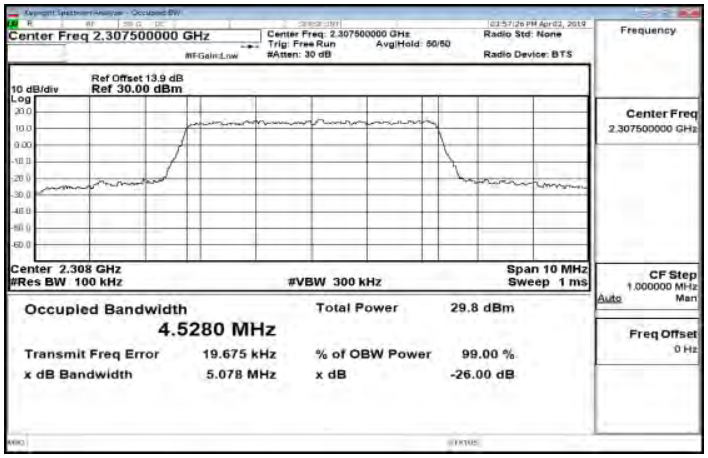
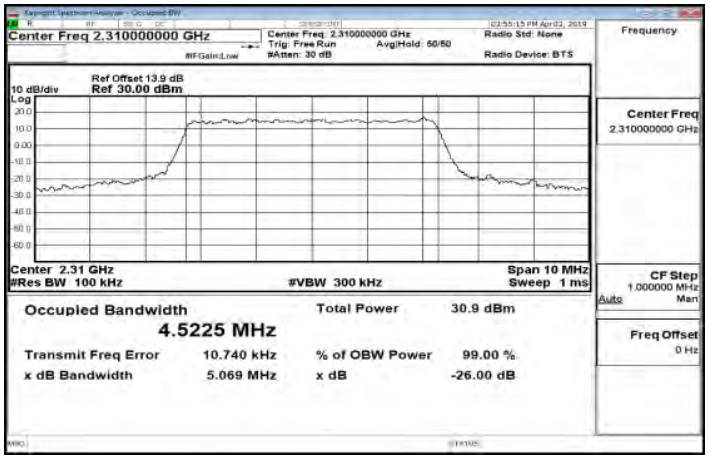
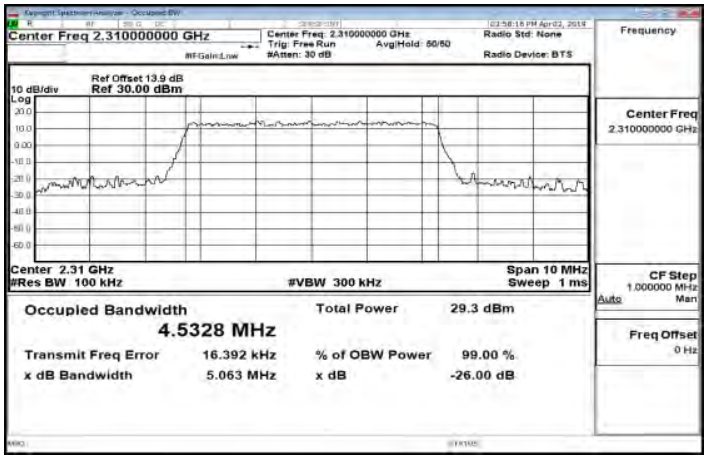


Band30_5MHz_QPSK_25_0_Main_MidCH27710-2310



Band30_5MHz_16QAM_25_0_Main_MidCH27710-2310



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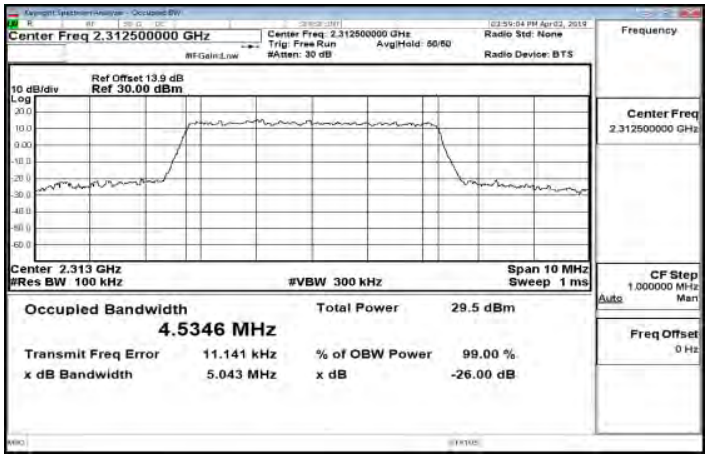
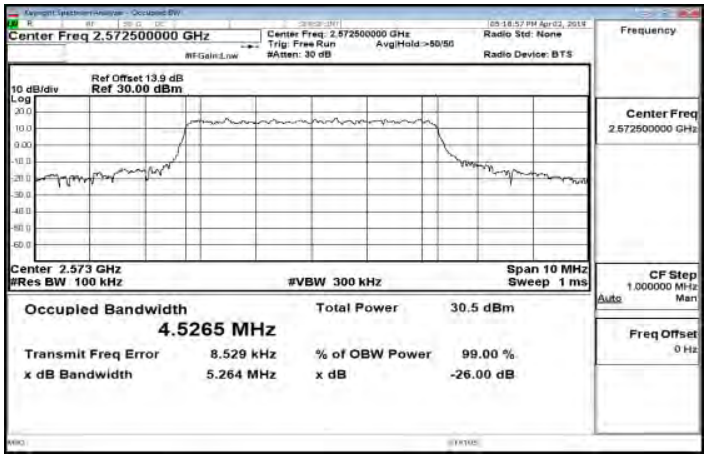
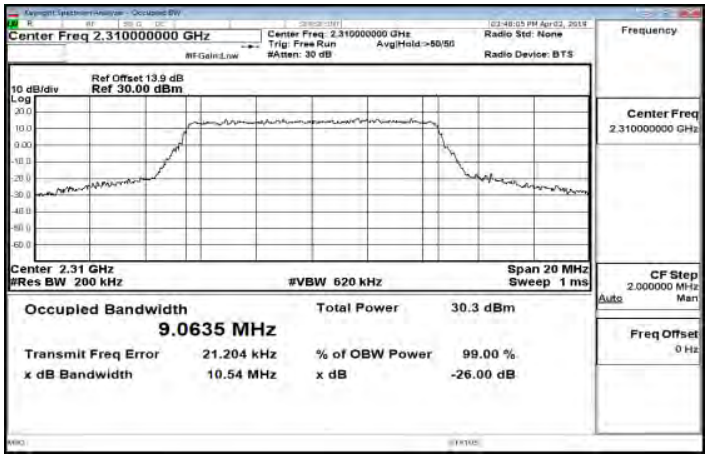
Band30_5MHz_16QAM_25_0_Main_HighCH27735-2312.5



Band38_5MHz_QPSK_25_0_Main_LowCH37775-2572.5

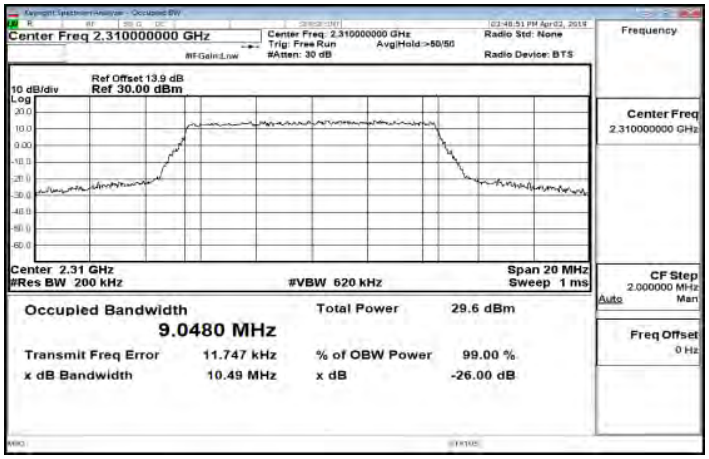


Band30_10MHz_QPSK_50_0_Main_MidCH27710-2310

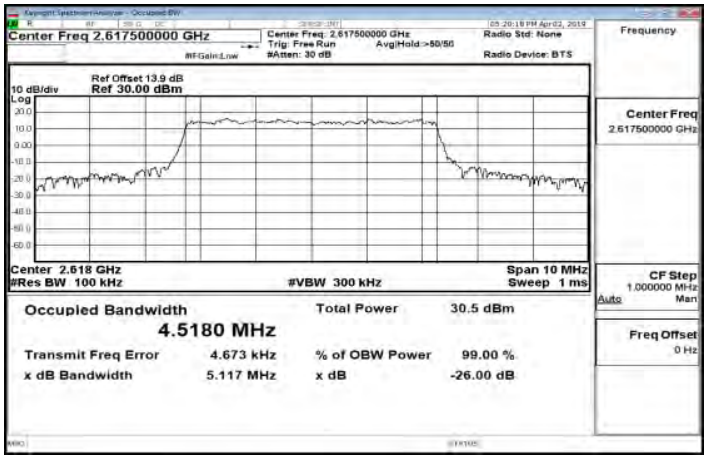


Band38_5MHz_QPSK_25_0_Main_MidCH38000-2595

Band30_10MHz_16QAM_50_0_Main_MidCH27710-2310



Band38_5MHz_QPSK_25_0_Main_HighCH38225-2617.5



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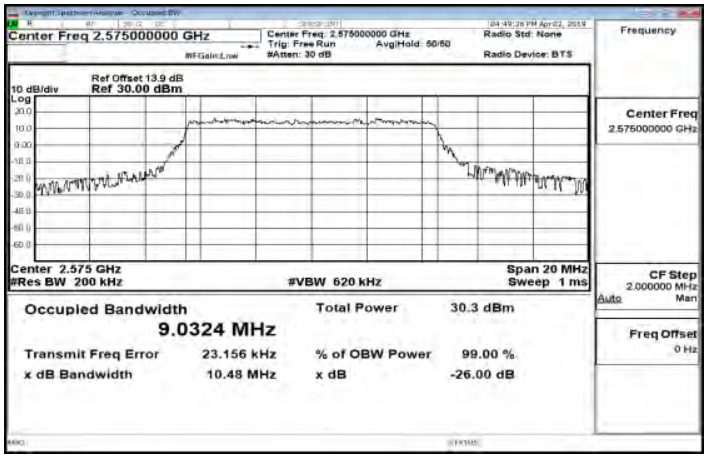
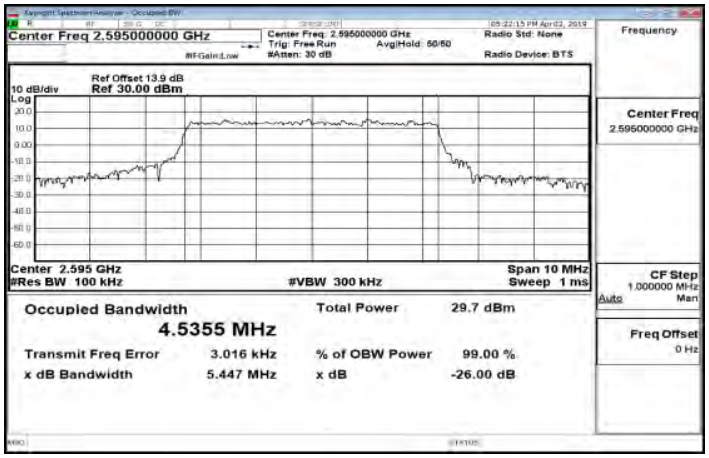
Band38_5MHz_16QAM_25_0_Main_LowCH37775-2572.5

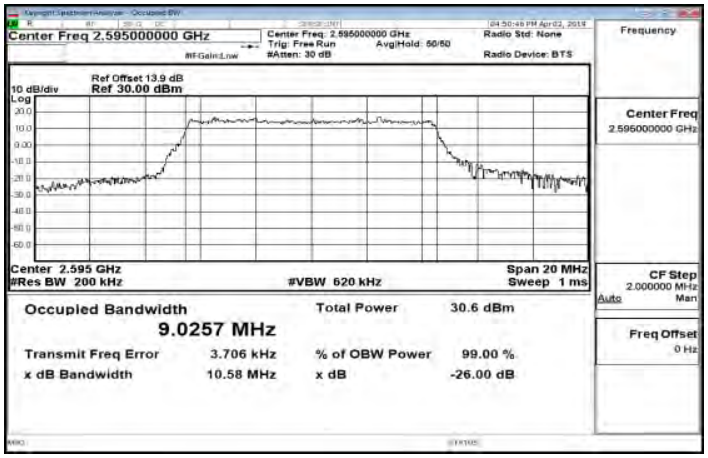
Band38_10MHz_QPSK_50_0_Main_LowCH37800-2575



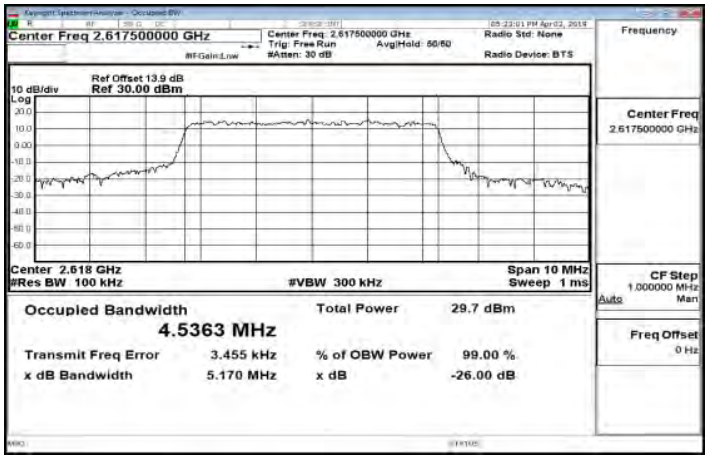
Band38_5MHz_16QAM_25_0_Main_MidCH38000-2595



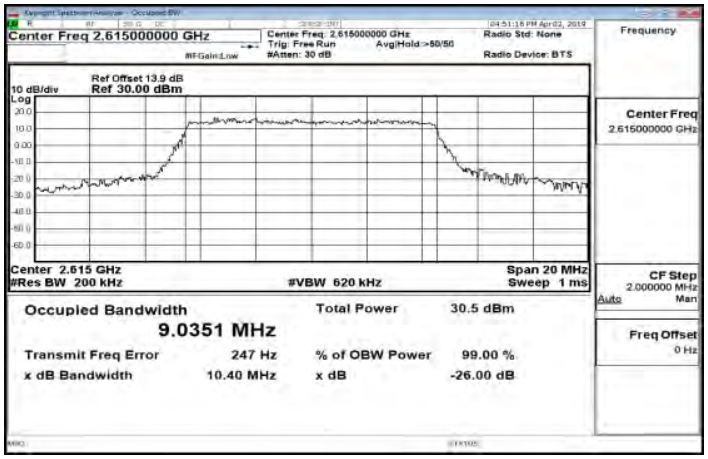
Band38_10MHz_QPSK_50_0_Main_MidCH38000-2595



Band38_5MHz_16QAM_25_0_Main_HighCH38225-2617.5



Band38_10MHz_QPSK_50_0_Main_HighCH38200-2615



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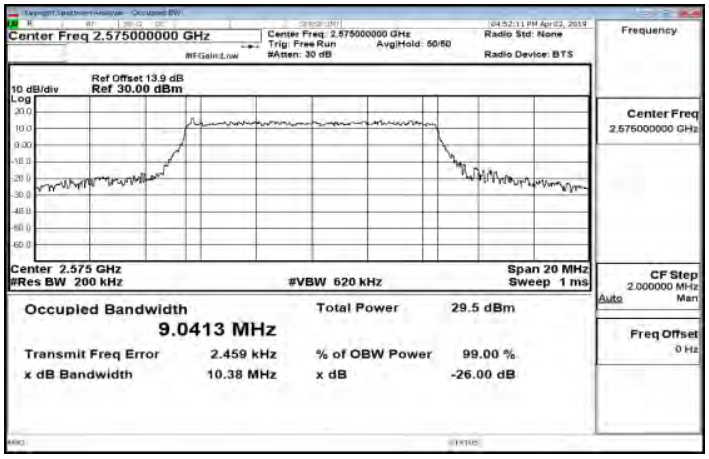
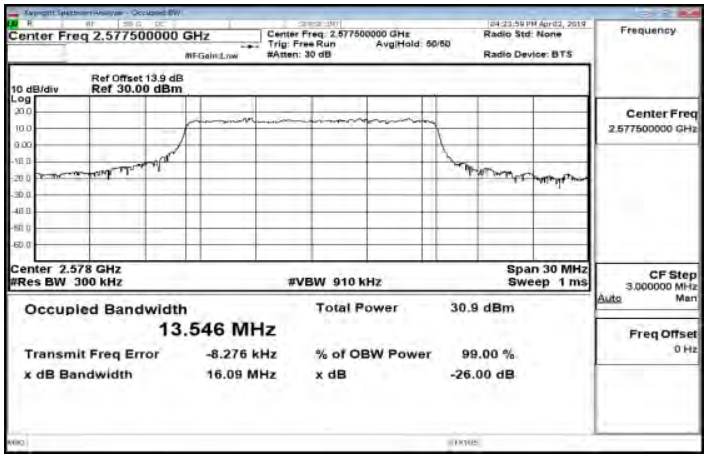
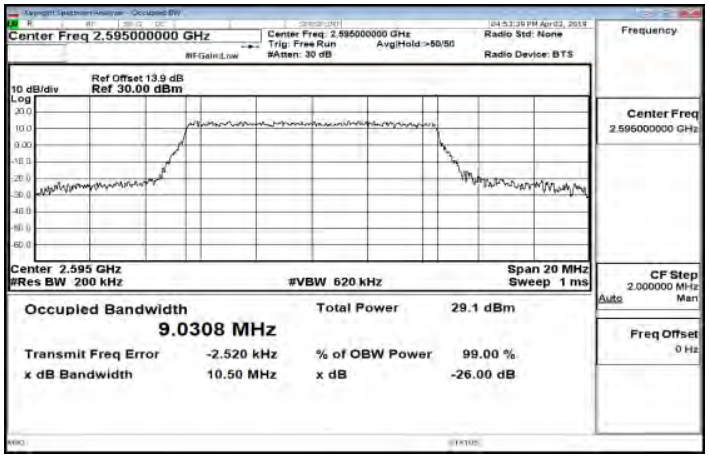
Band38_10MHz_16QAM_50_0_Main_LowCH37800-2575



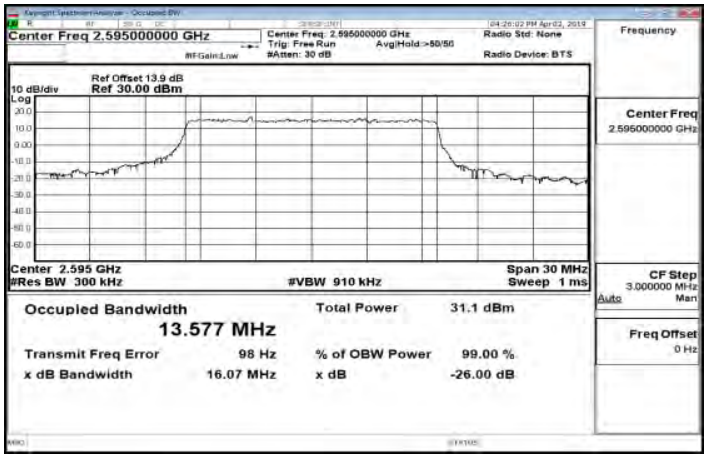
Band38_15MHz_QPSK_75_0_Main_LowCH37825-2577.5



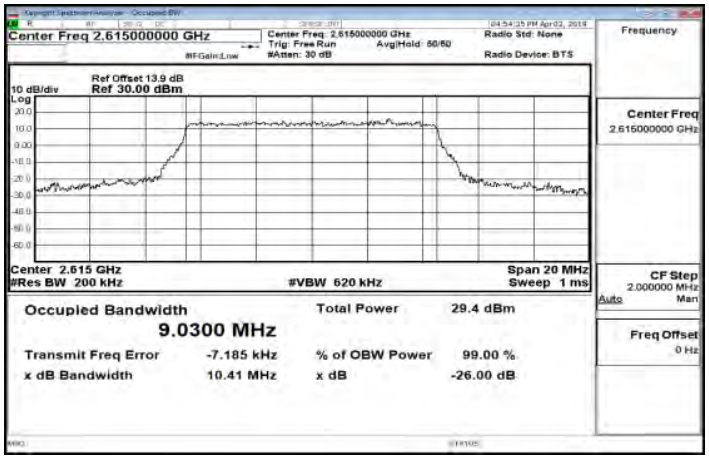
Band38_10MHz_16QAM_50_0_Main_MidCH38000-2595



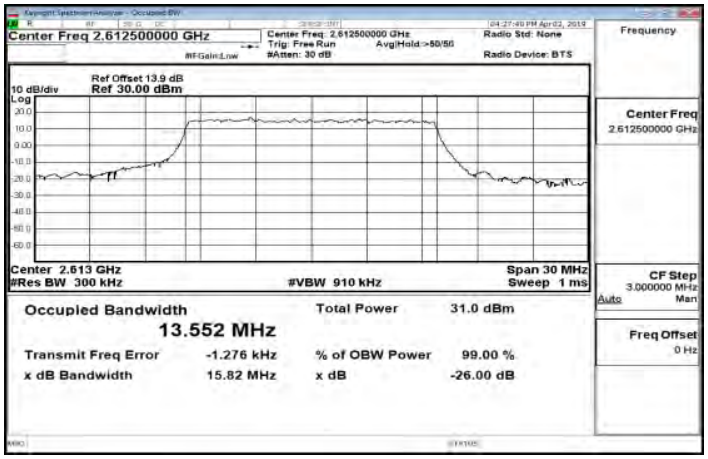
Band38_15MHz_QPSK_75_0_Main_MidCH38000-2595



Band38_10MHz_16QAM_50_0_Main_HighCH38200-2615



Band38_15MHz_QPSK_75_0_Main_HighCH38175-2612.5



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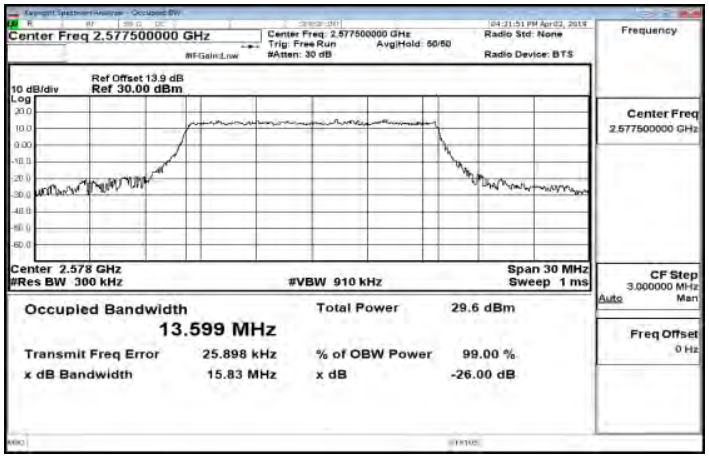
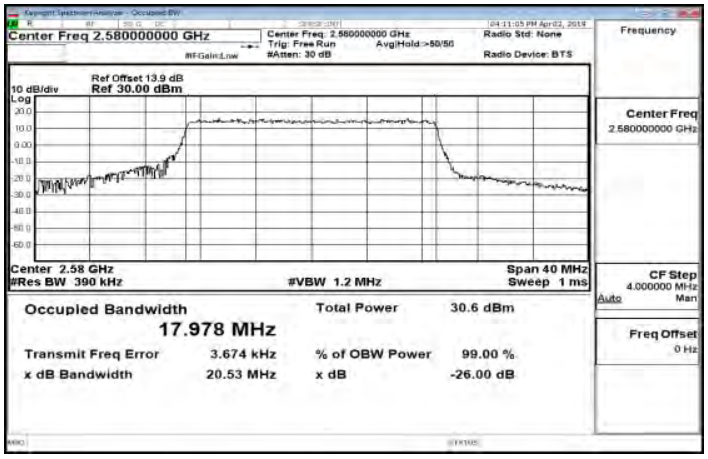
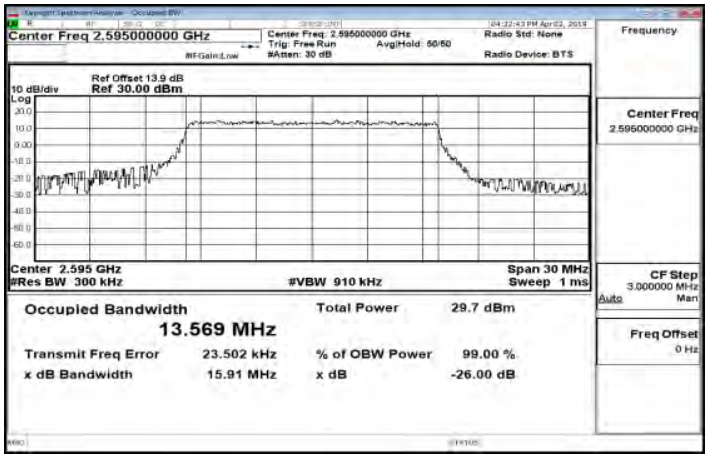
Band38_15MHz_16QAM_75_0_Main_LowCH37825-2577.5



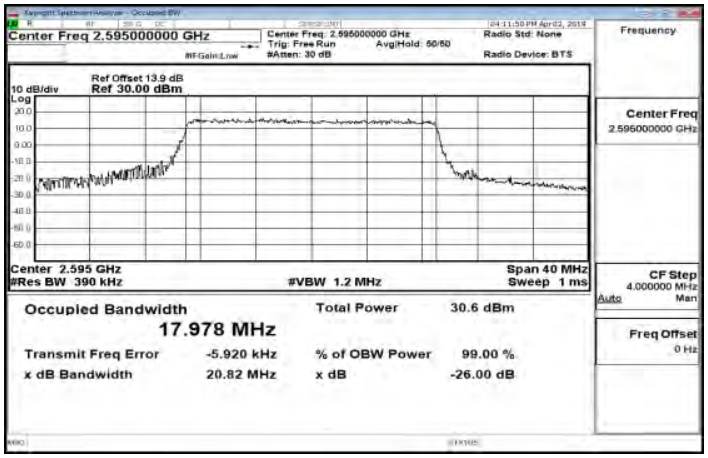
Band38_20MHz_QPSK_100_0_Main_LowCH37850-2580



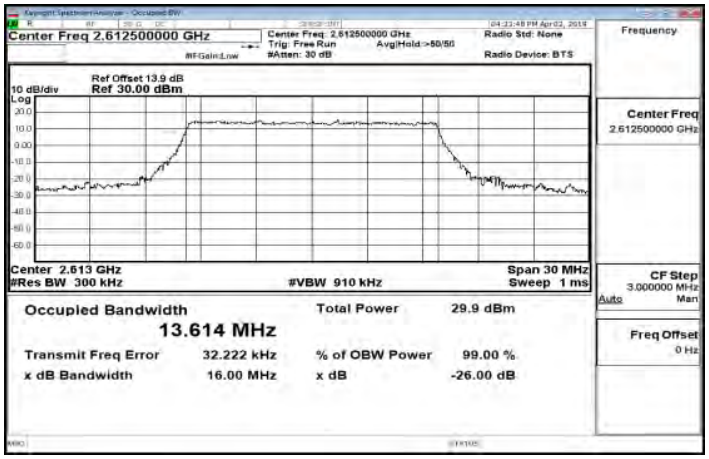
Band38_15MHz_16QAM_75_0_Main_MidCH38000-2595



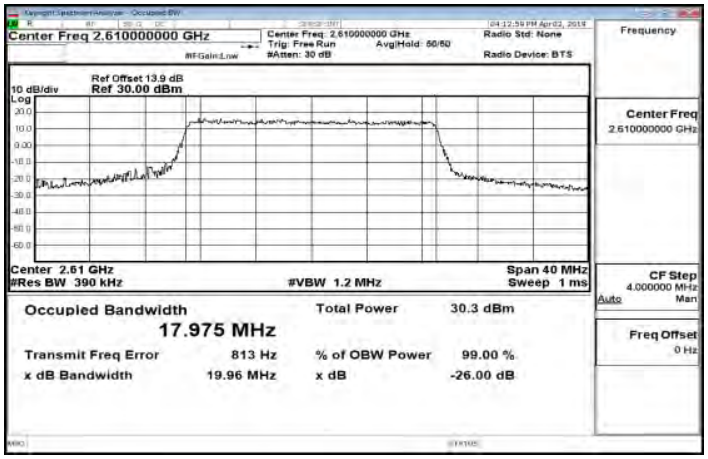
Band38_20MHz_QPSK_100_0_Main_MidCH38000-2595



Band38_15MHz_16QAM_75_0_Main_HighCH38175-2612.5



Band38_20MHz_QPSK_100_0_Main_HighCH38150-2610



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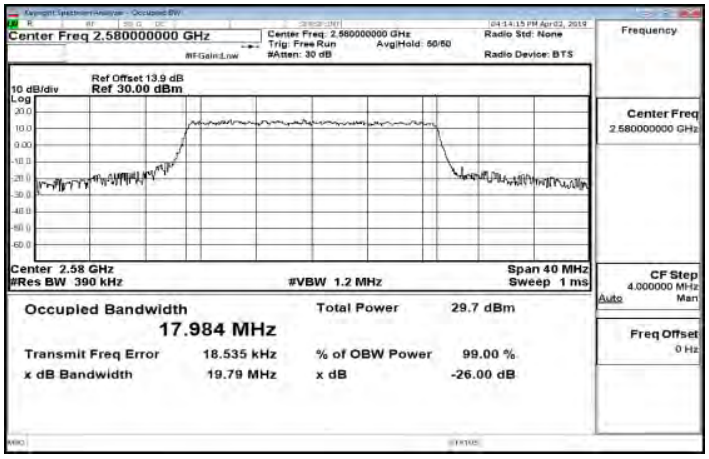
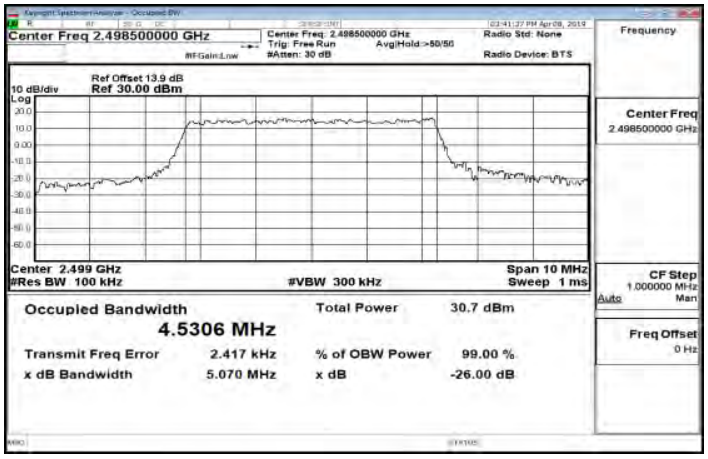
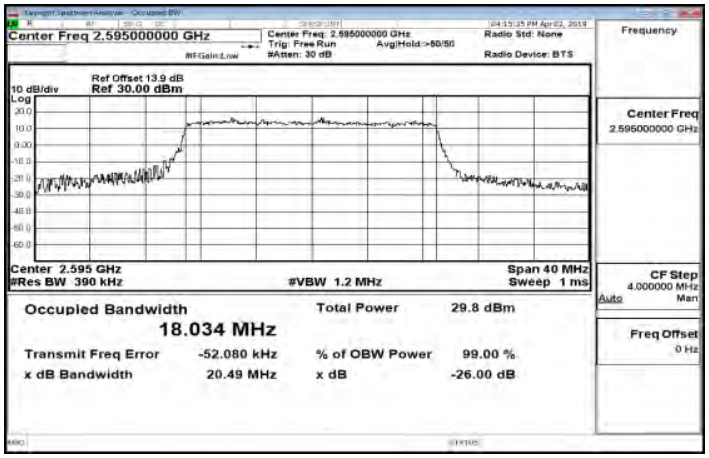
Band38_20MHz_16QAM_100_0_Main_LowCH37850-2580



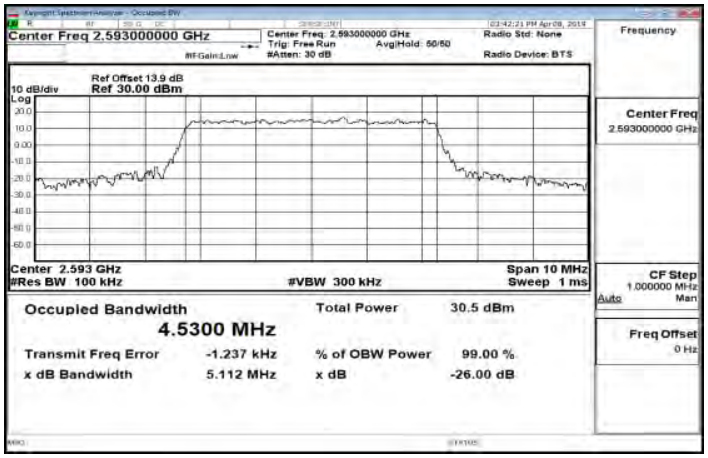
Band41_5MHz_QPSK_25_0_Main_LowCH39675-2498.5



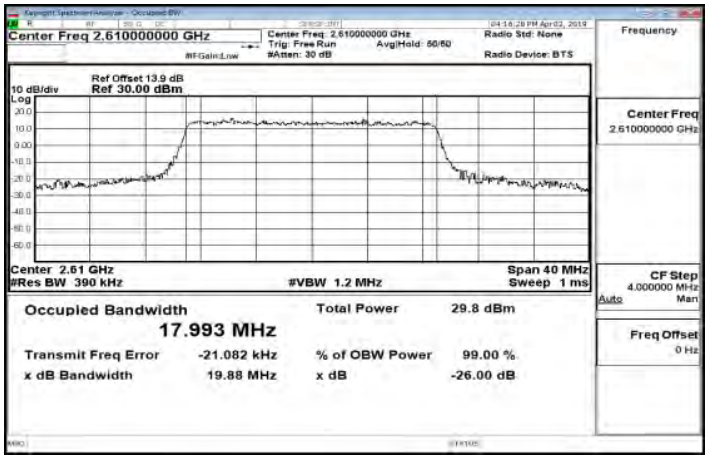
Band38_20MHz_16QAM_100_0_Main_MidCH38000-2595



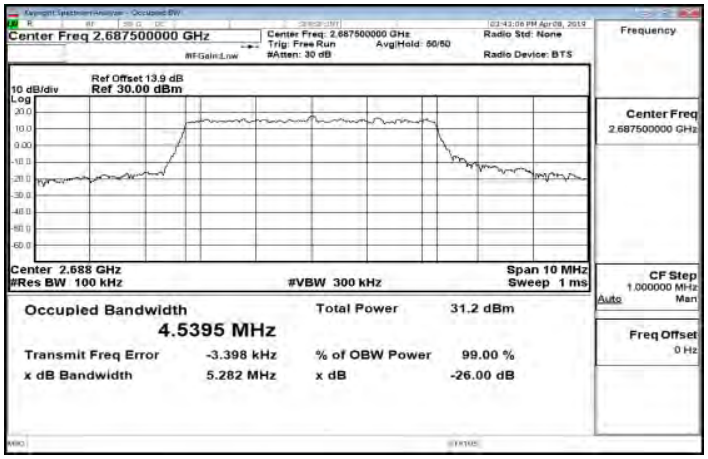
Band41_5MHz_QPSK_25_0_Main_MidCH40620-2593



Band38_20MHz_16QAM_100_0_Main_HighCH38150-2610



Band41_5MHz_QPSK_25_0_Main_HighCH41565-2687.5



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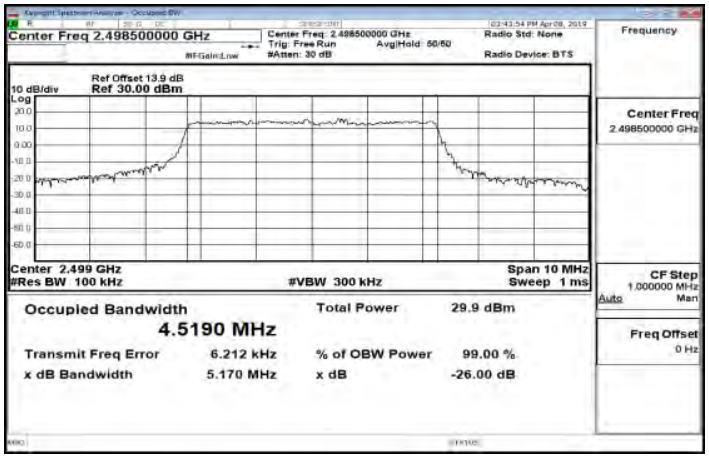
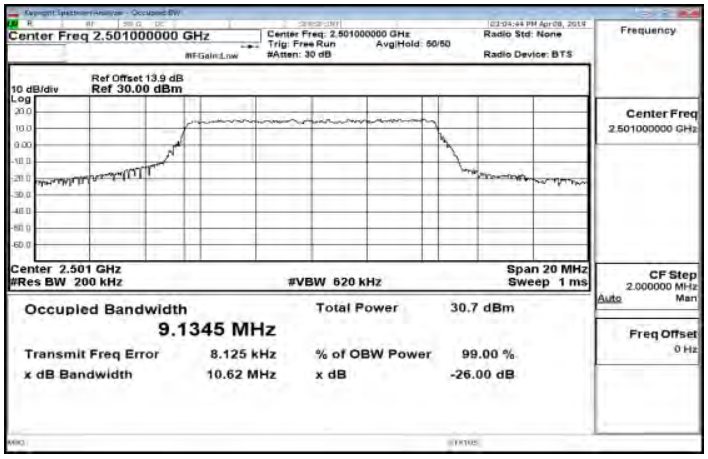
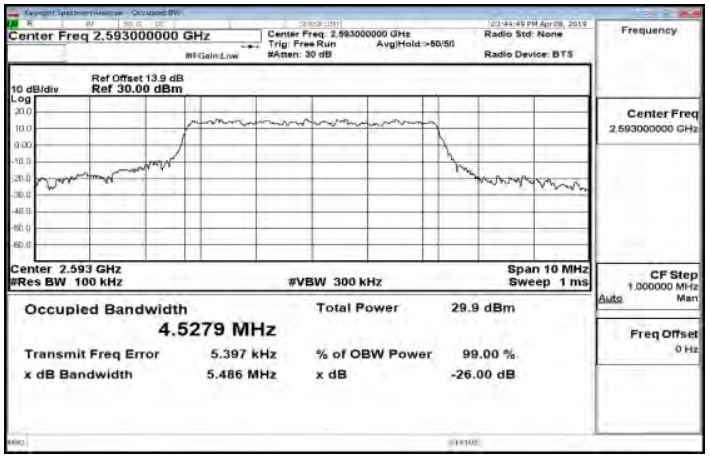
Band41_5MHz_16QAM_25_0_Main_LowCH39675-2498.5



Band41_10MHz_QPSK_50_0_Main_LowCH39700-2501



Band41_5MHz_16QAM_25_0_Main_MidCH40620-2593



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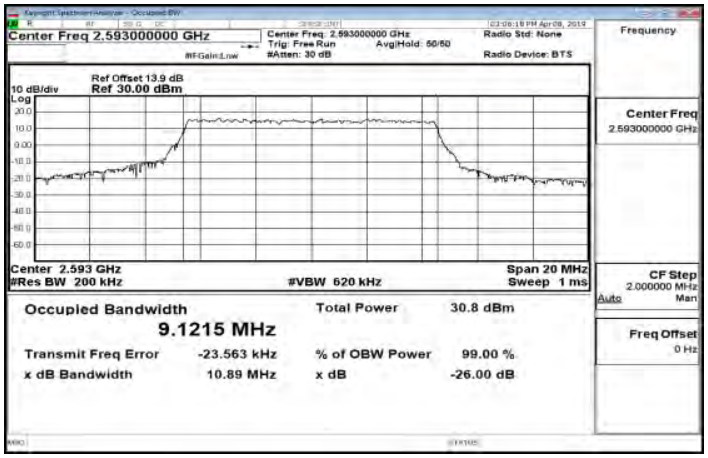
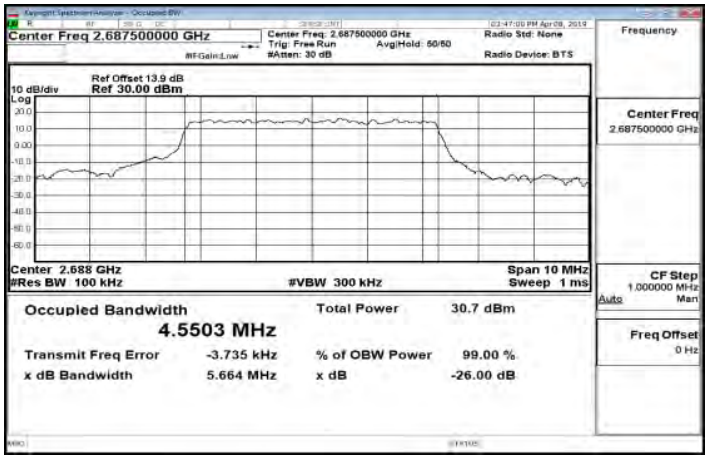


Band41_5MHz_16QAM_25_0_Main_HighCH41565-2687.5



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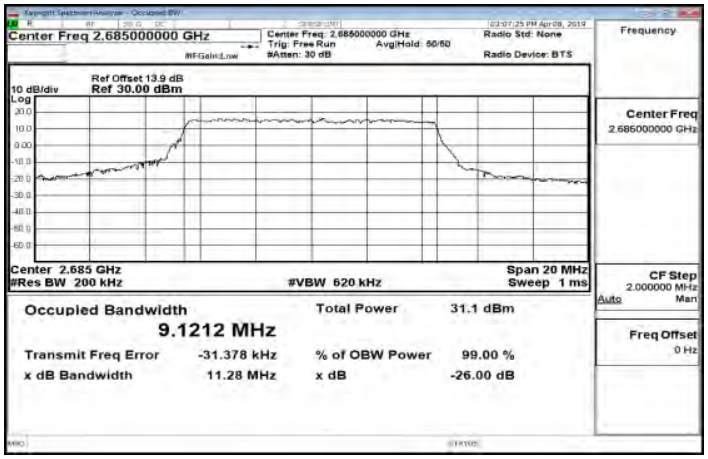

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