

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, PART 90S AND INDUSTRY CANADA RSS-130, RSS-132, RSS-133, RSS-139, RSS-195 & RSS-199 REQUIREMENT

OF

Applicant: Microsoft Corporation
One Microsoft Way, Redmond, WA 98052-6399 USA

Product Name: Portable Computing Device

Brand Name: Microsoft

Model No.: 1825

Model Difference: N/A

FCC ID: C3K1825

IC: 3048A-1825

Report Number: E2/2018/70116

FCC Rule Part: 2 , 22H & 24E & 27B, C & L & 90S
RSS 130 Issue 1 Oct. 2013, RSS 132 Issue 3 Jan. 2013,
RSS 133 Issue 6 Jan. 2018, RSS 139 Issue 3 Jul. 2015,
RSS 195 Issue 2 Apr. 2014, RSS 199 Issue 3 Dec. 2016

IC Rule Part:

Issue Date: Aug. 29, 2018

Date of Test: Jun. 26, 2018 ~ Aug. 24, 2018

Date of EUT Received: Jun. 26, 2018

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.26-2015 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

Tested By:



Vito Pei / Sr. Engineer

Approved By:



Jim Chang / Manager



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/70116	Rev.00	Initial creation of document	All	Aug. 29, 2018	Tiffany Kao

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Portable Computing Device	
Brand Name:	Microsoft	
Model No.:	1825	
Model Difference:	N/A	
Product SW/HW version:	Windows 10 Pro / EV2.7	
Radio SW/HW version:	18.33.105.6 / EV2.7	
Test SW Version:	N/A	
RF power setting in TEST SW:	N/A	
Power Supply:	7.66Vdc from Rechargeable Li-ion Battery or 15V from AC/DC Adapter	
	Battery:	Model No.: G16QA043H, Supplier: SMP
	Adapter:	Model No.: 1735, Supplier: LITEON

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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 V	826.4	- 846.6

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)	
2	1.4	1850.7	- 1909.3	13	5	779.5	- 784.5
	3	1851.5	- 1908.5		10	782	
	5	1852.5	- 1907.5	25	1.4	1850.7	- 1914.3
	10	1855.0	- 1905.0		3	1851.5	- 1913.5
	15	1857.5	- 1902.5		5	1852.5	- 1912.5
	20	1860.0	- 1900.0		10	1855.0	- 1910.0
4	1.4	1710.7	- 1754.3		15	1857.5	- 1907.5
	3	1711.5	- 1753.5		20	1860.0	- 1905.0
	5	1712.5	- 1752.5	26	1.4	824.7	- 848.3
	10	1715.0	- 1780.0		3	825.5	- 847.5
	15	1717.5	- 1747.5		5	826.5	- 846.5
	20	1720.0	- 1745.0		10	829.0	- 844.0
5	1.4	824.7	- 848.3		15	831.5	- 841.5
	3	825.5	- 847.5		26 Part90	1.4	814.7
	5	826.5	- 846.5	3		815.5	- 822.5
	10	829.0	- 844.0	5		816.5	- 821.5
7	5	2502.5	- 2567.5	10		819.0	
	10	2505.0	- 2565.0	30	5	2307.5	- 2312.5
	15	2507.5	- 2562.5		10	2310.0	
	20	2510.0	- 2560.0	38	5	2572.5	- 2617.5
12	1.4	699.7	- 715.3		10	2575.0	- 2615.0
	3	700.5	- 714.5		15	2577.5	- 2612.5
	5	701.5	- 713.5		20	2580.0	- 2610.0
	10	704.0	- 711.0				

LTE Band	BW (MHz)	Operation Frequency (MHz)		LTE Band	BW (MHz)	Operation Frequency (MHz)	
41	5	2498.5	- 2687.5	66	1.4	1710.7	- 1779.3
	10	2501.0	- 2685.0		3	1711.5	- 1778.5
	15	2503.5	- 2682.5		5	1712.5	- 1777.5
	20	2506.0	- 2680.0		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	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Jieng Tai International Electronic Corp.	Couple	Main	DQ67KYQUT77 / 7KYQUTAN000398	WCDMA / HSPA Band II	1852.4 ~ 1907.6	1.09
				WCDMA / HSPA Band V	826.4 ~ 846.6	0.16
				LTE Band 2	1850 ~ 1910	1.09
				LTE Band 4	1710 ~ 1755	1.92
				LTE Band 5	824 ~ 849	0.16
				LTE Band 7	2503 ~ 2560	2.11
				LTE Band 12	699 ~ 716	0.09
				LTE Band 13	777 ~ 787	1.48
				LTE Band 25	1850 ~ 1915	1.09
				LTE Band 26	824 ~ 849	0.72
				LTE Band 26	814 ~ 824	0.72
				LTE Band 30	2305 ~ 2315	0.95
				LTE Band 38	2573 ~ 2610	2.11
				LTE Band 41	2496 ~ 2690	2.11
LTE Band 66	1710 ~ 1780	1.92				

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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	23.29	EIRP	0.213	4M12F9W
HSDPA Band II	22.32	EIRP	0.171	4M12F9W
HSUPA Band II	22.83	EIRP	0.192	4M13F9W
WCDMA Band V	24.11	ERP	0.258	4M12F9W
	26.26	EIRP	0.423	
HSDPA Band V	23.25	ERP	0.211	4M13F9W
	25.40	EIRP	0.347	
HSUPA Band V	23.13	ERP	0.206	4M14F9W
	25.28	EIRP	0.337	

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	23.19	EIRP	0.208	1M10G7D
	1.4	16QAM	22.42	EIRP	0.175	1M10D7W
	3	QPSK	23.24	EIRP	0.211	2M70G7D
	3	16QAM	22.54	EIRP	0.179	2M70D7W
	5	QPSK	23.26	EIRP	0.212	4M50G7D
	5	16QAM	22.57	EIRP	0.181	4M51D7W
	10	QPSK	23.20	EIRP	0.209	9M02G7D
	10	16QAM	22.56	EIRP	0.180	8M96D7W
	15	QPSK	23.32	EIRP	0.215	13M5G7D
	15	16QAM	22.57	EIRP	0.181	13M5D7W
	20	QPSK	23.37	EIRP	0.217	18M0G7D
	20	16QAM	22.45	EIRP	0.176	18M0D7W
5	1.4	QPSK	24.13	ERP	0.259	1M10G7D
		EIRP	26.28	EIRP	0.425	
	1.4	16QAM	23.50	ERP	0.224	1M10D7W
		EIRP	25.65	EIRP	0.367	
	3	QPSK	24.15	ERP	0.260	2M70G7D
		EIRP	26.30	EIRP	0.426	
	3	16QAM	23.60	ERP	0.229	2M70D7W
		EIRP	25.75	EIRP	0.376	
5	QPSK	24.21	ERP	0.264	4M50G7D	
	EIRP	26.36	EIRP	0.433		
5	16QAM	23.56	ERP	0.227	4M50D7W	
	EIRP	25.71	EIRP	0.372		
10	QPSK	24.23	ERP	0.265	9M01G7D	
	EIRP	26.38	EIRP	0.435		
10	16QAM	23.63	ERP	0.231	8M98D7W	
	EIRP	25.78	EIRP	0.379		

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	26.00	EIRP	0.398	1M09G7D
	1.4	16QAM	25.25	EIRP	0.335	1M10D7W
	3	QPSK	26.03	EIRP	0.401	2M70G7D
	3	16QAM	25.41	EIRP	0.348	2M70D7W
	5	QPSK	26.02	EIRP	0.400	4M52G7D
	5	16QAM	25.41	EIRP	0.348	4M51D7W
	10	QPSK	26.17	EIRP	0.414	9M01G7D
	10	16QAM	25.39	EIRP	0.346	8M97D7W
	15	QPSK	26.31	EIRP	0.428	13M5G7D
	15	16QAM	25.33	EIRP	0.341	13M5D7W
	20	QPSK	26.32	EIRP	0.429	18M0G7D
	20	16QAM	25.80	EIRP	0.380	18M0D7W

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7	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
7	5	QPSK	26.40	EIRP	0.437	4M50G7D
	5	16QAM	25.56	EIRP	0.360	4M51D7W
	10	QPSK	26.37	EIRP	0.434	8M99G7D
	10	16QAM	25.57	EIRP	0.361	8M96D7W
	15	QPSK	26.45	EIRP	0.442	13M5G7D
	15	16QAM	25.94	EIRP	0.393	13M5D7W
	20	QPSK	26.53	EIRP	0.450	18M0G7D
	20	16QAM	25.86	EIRP	0.385	18M0D7W

12	1.4	QPSK	24.08 26.23	ERP EIRP	0.256 0.420	1M10G7D
	1.4	16QAM	23.37 25.52	ERP EIRP	0.217 0.356	1M10D7W
	3	QPSK	24.11 26.26	ERP EIRP	0.258 0.423	2M70G7D
	3	16QAM	23.56 25.71	ERP EIRP	0.227 0.372	2M71D7W
	5	QPSK	24.15 26.30	ERP EIRP	0.260 0.426	4M51G7D
	5	16QAM	23.52 25.67	ERP EIRP	0.225 0.369	4M51D7W
	10	QPSK	24.14 26.29	ERP EIRP	0.259 0.425	9M03G7D
	10	16QAM	23.50 25.65	ERP EIRP	0.224 0.367	8M96D7W
13	5	QPSK	25.56 27.71	ERP EIRP	0.360 0.590	4M52G7D
	5	16QAM	24.65 26.80	ERP EIRP	0.292 0.479	4M51D7W
	10	QPSK	25.37 27.52	ERP EIRP	0.344 0.564	8M96G7D
	10	16QAM	24.73 26.88	ERP EIRP	0.297 0.487	8M95D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
25	1.4	QPSK	23.09	EIRP	0.204	1M10G7D
	1.4	16QAM	22.45	EIRP	0.176	1M10D7W
	3	QPSK	23.22	EIRP	0.210	2M70G7D
	3	16QAM	22.49	EIRP	0.177	2M70D7W
	5	QPSK	23.18	EIRP	0.208	4M50G7D
	5	16QAM	22.40	EIRP	0.174	4M51D7W
	10	QPSK	23.40	EIRP	0.219	9M01G7D
	10	16QAM	22.50	EIRP	0.178	8M97D7W
	15	QPSK	23.32	EIRP	0.215	13M5G7D
	15	16QAM	22.79	EIRP	0.190	13M5D7W
	20	QPSK	23.31	EIRP	0.214	17M9G7D
	20	16QAM	22.48	EIRP	0.177	18M0D7W
26	1.4	QPSK	24.74 26.89	ERP EIRP	0.298 0.489	1M09G7D
	1.4	16QAM	24.09 26.24	ERP EIRP	0.256 0.420	1M10D7W
	3	QPSK	24.86 27.01	ERP EIRP	0.306 0.502	2M70G7D
	3	16QAM	24.05 26.20	ERP EIRP	0.254 0.417	2M70D7W
	5	QPSK	24.82 26.97	ERP EIRP	0.303 0.497	4M50G7D
	5	16QAM	24.22 26.37	ERP EIRP	0.264 0.433	4M50D7W
	10	QPSK	24.85 27.00	ERP EIRP	0.305 0.500	9M00G7D
	10	16QAM	24.22 26.37	ERP EIRP	0.264 0.433	8M97D7W
	15	QPSK	24.95 27.10	ERP EIRP	0.313 0.513	13M5G7D
	15	16QAM	24.20 26.35	ERP EIRP	0.263 0.431	13M5D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
26 Part90	1.4	QPSK	24.75	ERP	0.299 1M10G7D
	1.4	16QAM	24.12	ERP	0.258 1M10D7W
	3	QPSK	24.77	ERP	0.300 2M70G7D
	3	16QAM	24.15	ERP	0.260 2M71D7W
	5	QPSK	24.80	ERP	0.302 4M51G7D
	5	16QAM	24.01	ERP	0.252 4M51D7W
	10	QPSK	24.81	ERP	0.303 8M99G7D
	10	16QAM	23.97	ERP	0.249 8M94D7W
30	5	QPSK	23.99	EIRP	0.251 4M50G7D
	5	16QAM	23.89	EIRP	0.245 4M50D7W
	10	QPSK	23.96	EIRP	0.249 9M01G7D
	10	16QAM	23.84	EIRP	0.242 8M96D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
38	5	QPSK	27.96	EIRP	0.625 4M51G7D
	5	16QAM	27.16	EIRP	0.520 4M51D7W
	10	QPSK	27.95	EIRP	0.624 8M98G7D
	10	16QAM	27.21	EIRP	0.526 8M96D7W
	15	QPSK	28.11	EIRP	0.647 13M5G7D
	15	16QAM	27.31	EIRP	0.538 13M5D7W
	20	QPSK	28.11	EIRP	0.647 17M9G7D
	20	16QAM	27.28	EIRP	0.535 17M9D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
41	5	QPSK	28.05	EIRP	0.638 4M50G7D
	5	16QAM	27.26	EIRP	0.532 4M50D7W
	10	QPSK	28.04	EIRP	0.637 8M98G7D
	10	16QAM	27.26	EIRP	0.532 8M97D7W
	15	QPSK	28.11	EIRP	0.647 13M5G7D
	15	16QAM	27.27	EIRP	0.533 13M5D7W
	20	QPSK	28.16	EIRP	0.655 17M9G7D
	20	16QAM	27.29	EIRP	0.536 17M9D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission
66	1.4	QPSK	26.02	EIRP	0.400 1M10G7D
	1.4	16QAM	25.41	EIRP	0.348 1M10D7W
	3	QPSK	26.09	EIRP	0.397 2M70G7D
	3	16QAM	25.21	EIRP	0.332 2M71D7W
	5	QPSK	26.08	EIRP	0.406 4M51G7D
	5	16QAM	25.36	EIRP	0.344 4M51D7W
	10	QPSK	26.18	EIRP	0.415 9M02G7D
	10	16QAM	25.28	EIRP	0.337 8M97D7W
	15	QPSK	26.26	EIRP	0.423 13M5G7D
	15	16QAM	25.36	EIRP	0.344 13M5D7W
	20	QPSK	26.30	EIRP	0.427 18M0G7D
	20	16QAM	25.40	EIRP	0.347 18M0D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

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.

RSS Gen Issue 5 Apr. 2018

RSS-130-issue 1 Oct. 2013, RSS-132 Issue 3 Jan. 2013,

RSS-133 Issue 6 Jan. 2013, RSS-139 Issue 3 Jul. 2015,

RSS-195 Issue 2 Apr. 2014. RSS-199 Issue 3 Dec. 2016

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

1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333 (TAF code 0513)

FCC Registration Numbers are: 735305 / TW0002

Canada Registration Number: 4620A-5

1.6. Special Accessories

AC Adapter is used while the test is conducted and there is no other accessory attached. This is the worst case condition.

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.

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 0.8m 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

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)	0.4	10	10.4
High Band (Above 1 GHz)	0.8	10	10.8

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	7.66	0.728
WCDMA B5		0.692
LTE Band 2		0.670
LTE Band 4		0.771
LTE Band 5		0.715
LTE Band 7		0.679
LTE Band 12		0.697
LTE Band 13		0.728
LTE Band 25		0.708
LTE Band 26		0.710
LTE Band 26 (Part 90S)		0.701
LTE Band 30		0.950
LTE Band 38		0.709
LTE Band 41		0.699
LTE Band 66		0.766

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2.6. Configuration of Tested System

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

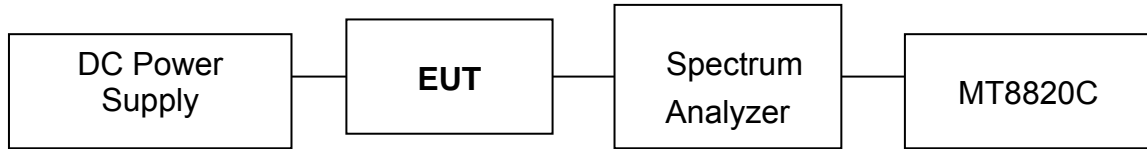
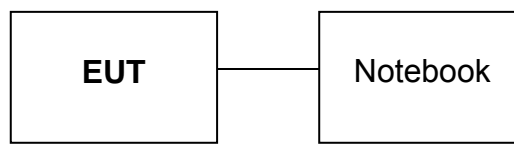


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

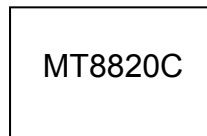


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded
2.	Notebook	Lenovo	L420	S0011721	shielded	Un-shielded

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3. SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	N/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) §90.635	§6.8 (RSS-Gen Issue 5) §4.4 (RSS-130) §5.4 (RSS-132) §6.4 (RSS-133) §6.5 (RSS-139) §5.5 (RSS-195) §4.4 (RSS-199)	ERP/ EIRP measurement	Compliant
§2.1049(h)	§6.7 (RSS-Gen Issue 5) §4.6 (RSS-130) §2.3 (RSS-133)	99% & 26dB Occupied 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	§6.13 (RSS-Gen Issue 5) §4.6 (RSS-130) §5.5 (RSS-132) §6.5 (RSS-133) §6.6 (RSS-139) §5.6.2 (RSS-195) §4.5 (RSS-199)	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)	§6.12 (RSS-Gen Issue 5) §4.6 (RSS-130) §5.5 (RSS-132) §6.5 (RSS-133) §6.6 (RSS-139) §5.6.2 (RSS-195) §4.5 (RSS-199)	Field Strength of Spurious Radiation	Compliant
§27.53(f)	§4.6 (RSS-130)	Spurious emission in 1559 -1610MHz Band	Compliant
§24.232(d) §27.53(d) (5) §27.50(i) (B)	§4.4 (RSS-130) §5.4 (RSS-132) §6.4 (RSS-133) §6.5 (RSS-139) §5.5.1 (RSS-195)	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.213	§6.11 (RSS-Gen Issue 5) §4.3 (RSS-130) §5.3 (RSS-132) §6.3 (RSS-133) §6.4 (RSS-139) §5.4 (RSS-195) §4.3 (RSS-199)	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. EUT set to at the channel with highest output power to investigated spurious emission with stand-up position (H, E1 mode) and lie down position (E2 mode) axis and antenna ports as worst-case scenario. 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	E1 Mode
WCDMA/HSPA Band V	E1 Mode
LTE Band 2	E1 Mode
LTE Band 4	E1 Mode
LTE Band 5	E1 Mode
LTE Band 7	E1 Mode
LTE Band 12	E1 Mode
LTE Band 13	E1 Mode
LTE Band 25	E1 Mode
LTE Band 26	E1 Mode
LTE Band 26 (Part 90S)	E1 Mode
LTE Band 30	E1 Mode
LTE Bnad 38	E1 Mode
LTE Band 41	E1 Mode
LTE Band 66	E1 Mode

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP / EIRP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538	9262, 9400, 9538	WCDMA/HSPA Band II
FREQUENCY STABILITY	4132 to 4233 9262 to 9538	4183 9400	WCDMA Band II WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 9262 to 9538	4132, 4233 9262, 9538	WCDMA Band II WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA Band V
RADIATED EMISSION	4132 to 4233 9262 to 9538	4132, 4183, 4233 9262, 9400, 9538	WCDMA Band II WCDMA 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 STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	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
CONDUCTED 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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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 STABILITY	20000 to 20350	20175	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	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 AVERAGE 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
CONDUCTED 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 EMISSION	20050 to 20300	20050, 20175, 20300	20MHz	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 / EIRP	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 STABILITY	20450 to 20600	20525	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	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 AVERAGE 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
CONDUCTED 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 EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	16QAM	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 AVERAGE 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	20850 to 21350	20850, 21100, 21350	20MHz	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	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	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 AVERAGE 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
CONDUCTED 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	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	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 AVERAGE 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
CONDUCTED 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, 23230, 23255	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	26047 to 26683	26047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090 to 26640	26090, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	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 AVERAGE 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
CONDUCTED 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 EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP / EIRP	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 AVERAGE 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
BAND EDGE	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
CONDUCTED 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 EMISSION	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offest 6 RB/ 0 Offset
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest 15 RB/ 0 Offset
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset

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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
EIRP Power Density	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM	1 RB/ 0 RB Offest
	27710	27710	10MHz	QPSK, 16QAM	1 RB/ 0 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 AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	16QAM	Full RB
	27710	27710	10MHz	16QAM	Full RB
BAND EDGE	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
CONDUCTED 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	10MHz	QPSK	1 RB/ 0 RB Offest
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	3775 to 38225	3775, 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 BANDWIDTH	3775 to 38225	3775, 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 AVERAGE RATIO	3775 to 38225	3775, 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	3775 to 38225	3775, 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	3775 to 38225	3775, 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	37825 to 38175	37825, 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	3775 to 38225	3775, 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 AVERAGE 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
BAND EDGE	39675 to 41565	39675, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	39700 to 41540	39700, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	39725 to 41515	39725, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	39750 to 41490	39750, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDUCTED 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 EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 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 BANDWIDTH	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 AVERAGE 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
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
CONDUCTED 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 Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

Radiated Spurious Emission:

Measurement uncertainty (Polarization : Vertical)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 180MHz: +/- 3.37dB
	180MHz -417MHz: +/- 3.19dB
	0.417GHz-1GHz: +/- 3.19dB
	1GHz - 18GHz: +/- 4.04dB
	18GHz - 40GHz: +/- 4.04dB

Measurement uncertainty (Polarization : Horizontal)	9kHz – 30MHz: +/- 2.87 dB
	30MHz - 167MHz: +/- 4.22dB
	167MHz -500MHz: +/- 3.44dB
	0.5GHz-1GHz: +/- 3.39dB
	1GHz - 18GHz: +/- 4.08dB
	18GHz - 40GHz: +/- 4.08dB

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6. DUTY CYCLE OF TEST SIGNAL

Pre-analysis Check: While conducting average power measurement, duty cycle of each mode shall be checked to ensure its duty cycle in order to compensate for the loss due to insufficient ratio of duty cycle.

All duty cycle is pre-scanned, and result as obtained below shows only the most representative ones where duty cycle is conducted as the given transmission with given virtual operation that expresses the percentage.

Formula:

$$\text{Duty Cycle} = \text{Ton} / (\text{Ton} + \text{Toff})$$

Measurement Procedure:

1. Set span = Zero
2. RBW = 8MHz
3. VBW = 8MHz,
4. Detector = Peak

Duty Cycle:

	$\Delta 1$	$\Delta 2$	Duty Cycle	Duty Cycle (%)	Duty Factor
Band38 10M Mid Channel	3.0000 ms	5.0000 ms	0.600	60.0 %	2.22
Band41 10M Mid Channel	2.9900 ms	5.0300 ms	0.594	59.4 %	2.26

$$\text{Duty Cycle Factor: } 10^* \log (1/0.600) = 2.22$$

$$\text{Duty Cycle Factor: } 10^* \log (1/0.594) = 2.26$$

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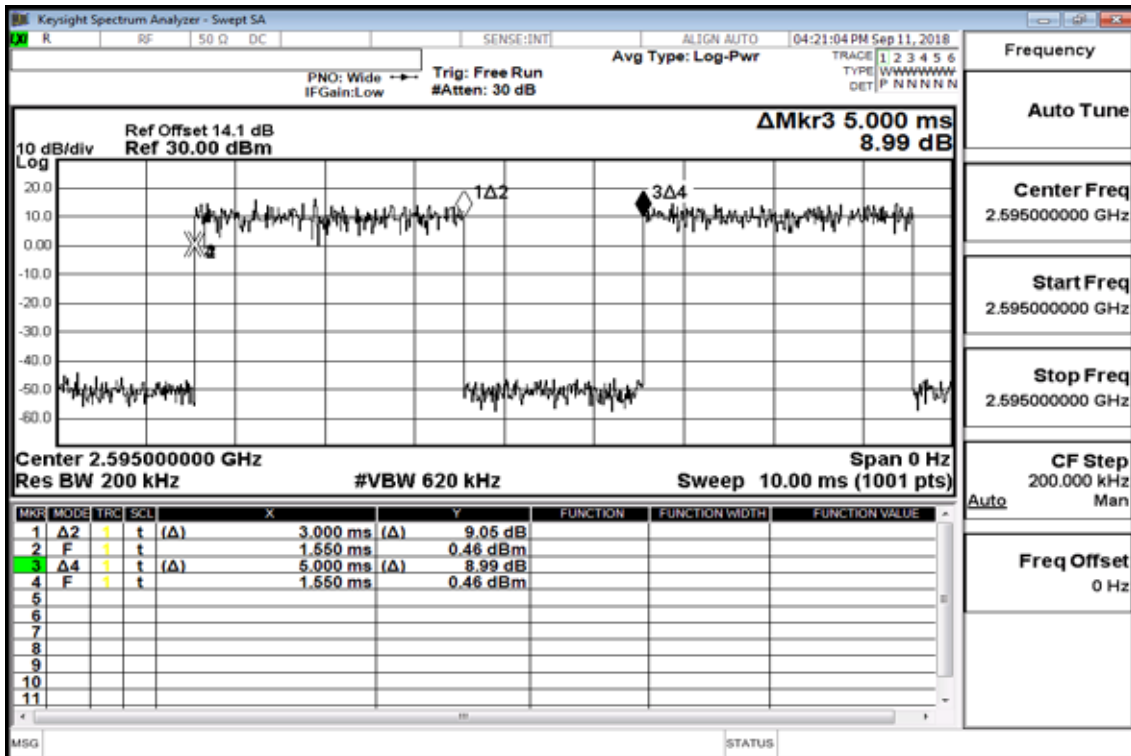
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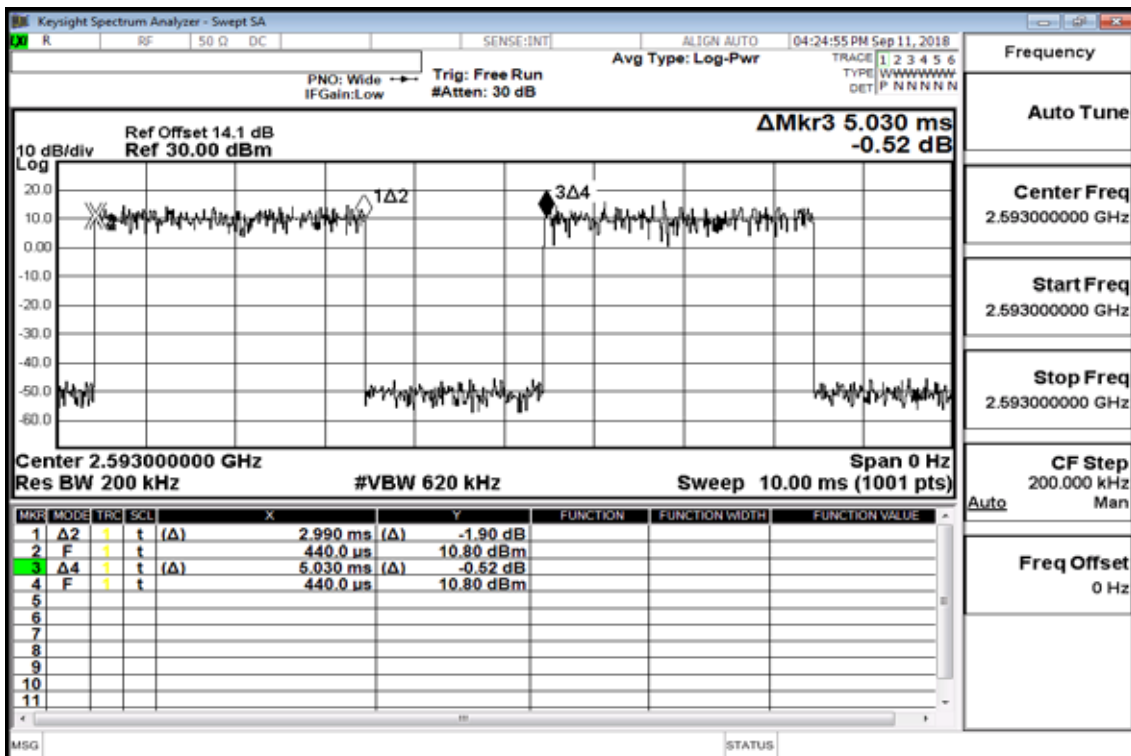
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6.1. DUTY CYCLE TEST SIGNAL Measurement Result LTE B38



LTE B41



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7. MAXMUM OUTPUT POWER

7.1. 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

According to RSS-130 §4.4

It shall not exceed 5 W for portable equipment or for indoor fixed subscriber equipment.

According to RSS-132, section 5.4.

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment shall not exceed 11.5 watts.

According to RSS-133 §6.4

The peak e.i.r.p. for transmitters operating in the band 1850-1910 MHz shall not exceed the limits 2W given in SRSP-510.

According to RSS 139 §6.4

The average equivalent isotropically radiated power (e.i.r.p.) for fixed, mobile and portable transmitters in the 1710-1755 MHz shall not exceed 1 watt.

According to RSS-199 §4.4

For mobile subscriber equipment, the e.i.r.p. shall not exceed 2 watts.

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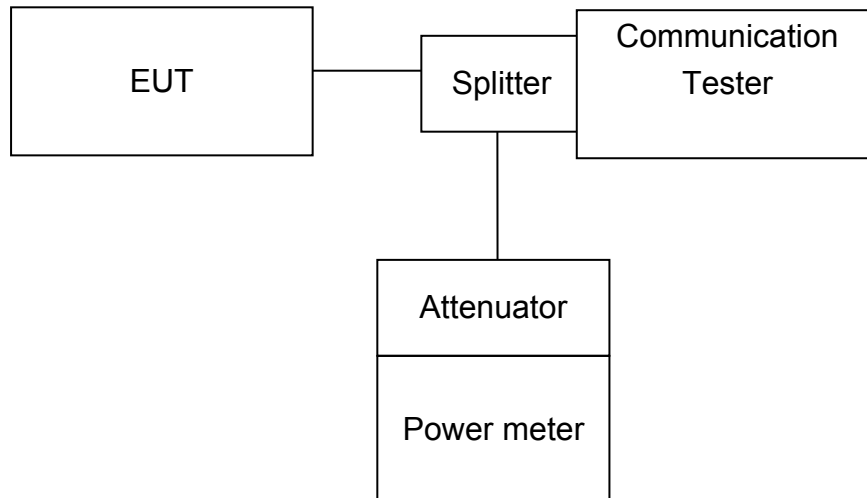
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7.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

7.3. 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, (WCD-MA/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

$$\text{ERP/EIRP} = \text{PMeas} + \text{GT-LC}$$

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.

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.

7.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY53130054	2018/09/03	2019/09/04

Remark: Please note that the duration to conduct the test took place in the mean time when the calibration for several equipments is due, and therefore extra tables of equipment calibration is constructed to indicate the calibration work is still maintained.

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7.5. 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 V8.4.0 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	22.12	1.09	23.21	33	-9.79
	1880	9400	22.2	1.09	23.29	33	-9.71
	1907.6	9538	22.05	1.09	23.14	33	-9.86
HSDPA	1852.4	9262	21.13	1.09	22.22	33	-10.78
	1880	9400	21.23	1.09	22.32	33	-10.68
	1907.6	9538	21.18	1.09	22.27	33	-10.73
HSUPA	1852.4	9262	21.12	1.09	22.21	33	-10.79
	1880	9400	21.22	1.09	22.31	33	-10.69
	1907.6	9538	21.74	1.09	22.83	33	-10.17

WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	ERP (dBm)	IC EIRP Limit (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.95	0.16	24.11	26.26	40.6	38.5	-14.39
	836.6	4183	23.89	0.16	24.05	26.2	40.6	38.5	-14.45
	846.6	4233	23.92	0.16	24.08	26.23	40.6	38.5	-14.42
HSDPA	826.4	4132	23.08	0.16	23.24	25.39	40.6	38.5	-15.26
	836.6	4183	22.95	0.16	23.11	25.26	40.6	38.5	-15.39
	846.6	4233	23.09	0.16	23.25	25.4	40.6	38.5	-15.25
HSUPA	826.4	4132	22.88	0.16	23.04	25.19	40.6	38.5	-15.46
	836.6	4183	22.88	0.16	23.04	25.19	40.6	38.5	-15.46
	846.6	4233	22.97	0.16	23.13	25.28	40.6	38.5	-15.37

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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 V8.4.0 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 V8.4.0. 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} (Note 1, 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.

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSDPA II	1	20.77	21.34	20.35	20.3dBm – 25.7dBm	Pass
	2	20.81	21.23	20.23	20.3dBm – 25.7dBm	Pass
	3	20.05	20.19	19.58	19.8dBm – 25.7dBm	Pass
	4	20.11	20.28	19.55	19.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSDPA V	1	22.87	22.79	22.95	20.3dBm – 25.7dBm	Pass
	2	21.88	21.83	21.99	20.3dBm – 25.7dBm	Pass
	3	21.08	21.05	21.16	19.8dBm – 25.7dBm	Pass
	4	21.00	20.95	21.07	19.8dBm – 25.7dBm	Pass

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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 V8.4.0 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 V8.4.0. 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} (Code s)	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	$\beta_{ed1}: 47/15$ $\beta_{ed2}: 47/15$	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			Power Class 3 Limitation (dBm)	Comments
		9262	9400	9538		
HSUPA II	1	20.37	21.10	21.57	18.8dBm – 25.7dBm	Pass
	2	20.15	21.42	22.06	16.8dBm – 25.7dBm	Pass
	3	20.37	21.92	21.49	17.8dBm – 25.7dBm	Pass
	4	20.19	21.03	21.41	16.8dBm – 25.7dBm	Pass
	5	20.14	21.06	21.33	18.8dBm – 25.7dBm	Pass

Mode	Sub test	Avg. Power (dBm) Channel			Power Class 3 Limitation (dBm)	Comments
		4132	4183	4233		
HSUPA V	1	22.87	22.86	22.98	18.8dBm – 25.7dBm	Pass
	2	22.23	22.27	22.37	16.8dBm – 25.7dBm	Pass
	3	22.75	22.80	22.95	17.8dBm – 25.7dBm	Pass
	4	22.81	22.76	22.82	16.8dBm – 25.7dBm	Pass
	5	22.83	22.78	22.82	18.8dBm – 25.7dBm	Pass

WCDMA/HSDPA/HSUPA band II, 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:

LTE Band 2

Antenna gain (dBi) 1.09

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
Bandwidth	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	21.98	23.07	33	-9.93
				1	5	21.97	23.06	33	-9.94
				3	2	22.10	23.19	33	-9.81
				6	0	21.06	22.15	33	-10.85
	18900	1880	QPSK	1	0	21.94	23.03	33	-9.97
				1	5	21.95	23.04	33	-9.96
				3	2	22.04	23.13	33	-9.87
				6	0	20.97	22.06	33	-10.94
	19193	1909.3	QPSK	1	0	21.88	22.97	33	-10.03
				1	5	21.86	22.95	33	-10.05
				3	2	21.95	23.04	33	-9.96
				6	0	20.87	21.96	33	-11.04
	18607	1850.7	16QAM	1	0	21.16	22.25	33	-10.75
				1	5	21.15	22.24	33	-10.76
				3	2	21.00	22.09	33	-10.91
				6	0	20.07	21.16	33	-11.84
	18900	1880	16QAM	1	0	21.16	22.25	33	-10.75
				1	5	21.10	22.19	33	-10.81
				3	2	21.06	22.15	33	-10.85
				6	0	20.06	21.15	33	-11.85
	19193	1909.3	16QAM	1	0	21.33	22.42	33	-10.58
				1	5	21.31	22.40	33	-10.6
				3	2	20.93	22.02	33	-10.98
				6	0	19.87	20.96	33	-12.04

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz

Bandwidth	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	22.15	23.24	33	-9.76
				1	14	22.09	23.18	33	-9.82
				8	4	21.12	22.21	33	-10.79
				15	0	21.08	22.17	33	-10.83
	18900	1880	QPSK	1	0	22.05	23.14	33	-9.86
				1	14	22.00	23.09	33	-9.91
				8	4	21.05	22.14	33	-10.86
				15	0	21.02	22.11	33	-10.89
	19185	1908.5	QPSK	1	0	21.96	23.05	33	-9.95
				1	14	21.92	23.01	33	-9.99
				8	4	20.96	22.05	33	-10.95
				15	0	20.97	22.06	33	-10.94
	18615	1851.5	16QAM	1	0	21.31	22.40	33	-10.6
				1	14	21.28	22.37	33	-10.63
				8	4	20.07	21.16	33	-11.84
				15	0	20.14	21.23	33	-11.77
	18900	1880	16QAM	1	0	21.33	22.42	33	-10.58
				1	14	21.30	22.39	33	-10.61
				8	4	20.10	21.19	33	-11.81
				15	0	20.00	21.09	33	-11.91
	19185	1908.5	16QAM	1	0	21.45	22.54	33	-10.46
				1	14	21.25	22.34	33	-10.66
				8	4	20.10	21.19	33	-11.81
				15	0	20.12	21.21	33	-11.79

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz

Bandwidth	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	22.17	23.26	33	-9.74
				1	24	22.08	23.17	33	-9.83
				12	6	21.15	22.24	33	-10.76
				25	0	21.09	22.18	33	-10.82
	18900	1880	QPSK	1	0	22.09	23.18	33	-9.82
				1	24	22.02	23.11	33	-9.89
				12	6	21.08	22.17	33	-10.83
				25	0	21.01	22.10	33	-10.9
	19175	1907.5	QPSK	1	0	22.01	23.10	33	-9.9
				1	24	21.94	23.03	33	-9.97
				12	6	20.97	22.06	33	-10.94
				25	0	20.93	22.02	33	-10.98
	18625	1852.5	16QAM	1	0	21.32	22.41	33	-10.59
				1	24	21.20	22.29	33	-10.71
				12	6	20.12	21.21	33	-11.79
				25	0	20.05	21.14	33	-11.86
	18900	1880	16QAM	1	0	21.48	22.57	33	-10.43
				1	24	21.46	22.55	33	-10.45
				12	6	20.12	21.21	33	-11.79
				25	0	20.07	21.16	33	-11.84
	19175	1907.5	16QAM	1	0	21.37	22.46	33	-10.54
				1	24	21.28	22.37	33	-10.63
				12	6	20.04	21.13	33	-11.87
				25	0	19.99	21.08	33	-11.92

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LTE Band 2

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1.09

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz

Bandwidth	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	22.09	23.18	33	-9.82
				1	24	21.96	23.05	33	-9.95
				12	6	21.11	22.20	33	-10.8
				25	0	21.04	22.13	33	-10.87
	18900	1880	QPSK	1	0	22.11	23.20	33	-9.8
				1	24	21.99	23.08	33	-9.92
				12	6	21.10	22.19	33	-10.81
				25	0	21.02	22.11	33	-10.89
	19150	1905	QPSK	1	0	21.98	23.07	33	-9.93
				1	24	21.88	22.97	33	-10.03
				12	6	21.01	22.10	33	-10.9
				25	0	21.01	22.10	33	-10.9
	18650	1855	16QAM	1	0	21.47	22.56	33	-10.44
				1	24	21.43	22.52	33	-10.48
				12	6	20.10	21.19	33	-11.81
				25	0	20.10	21.19	33	-11.81
	18900	1880	16QAM	1	0	21.34	22.43	33	-10.57
				1	24	21.11	22.20	33	-10.8
				12	6	20.14	21.23	33	-11.77
				25	0	20.10	21.19	33	-11.81
	19150	1905	16QAM	1	0	21.11	22.20	33	-10.8
				1	24	21.02	22.11	33	-10.89
				12	6	20.06	21.15	33	-11.85
				25	0	20.00	21.09	33	-11.91

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LTE Band 2

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LTE Band 2_Uplink frequency band : 1850 to 1910 MHz

Bandwidth	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	22.23	23.32	33	-9.68
				1	74	21.98	23.07	33	-9.93
				36	19	21.09	22.18	33	-10.82
				75	0	21.11	22.20	33	-10.8
	18900	1880	QPSK	1	0	22.22	23.31	33	-9.69
				1	74	22.00	23.09	33	-9.91
				36	19	21.09	22.18	33	-10.82
				75	0	21.11	22.20	33	-10.8
	19125	1902.5	QPSK	1	0	22.18	23.27	33	-9.73
				1	74	21.97	23.06	33	-9.94
				36	19	21.03	22.12	33	-10.88
				75	0	21.03	22.12	33	-10.88
	18675	1857.5	16QAM	1	0	21.48	22.57	33	-10.43
				1	74	21.47	22.56	33	-10.44
				36	19	20.14	21.23	33	-11.77
				75	0	20.13	21.22	33	-11.78
	18900	1880	16QAM	1	0	21.39	22.48	33	-10.52
				1	74	21.17	22.26	33	-10.74
				36	19	20.09	21.18	33	-11.82
				75	0	20.10	21.19	33	-11.81
	19125	1902.5	16QAM	1	0	21.42	22.51	33	-10.49
				1	74	21.27	22.36	33	-10.64
				36	19	20.05	21.14	33	-11.86
				75	0	20.06	21.15	33	-11.85

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LTE Band 2

Antenna gain (dBi)

1.09

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz

Bandwidth	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	22.26	23.35	33	-9.65
				1	99	21.92	23.01	33	-9.99
				50	25	21.13	22.22	33	-10.78
				100	0	21.09	22.18	33	-10.82
	18900	1880	QPSK	1	0	22.28	23.37	33	-9.63
				1	99	21.98	23.07	33	-9.93
				50	25	21.10	22.19	33	-10.81
				100	0	21.14	22.23	33	-10.77
	19100	1900	QPSK	1	0	22.16	23.25	33	-9.75
				1	99	21.92	23.01	33	-9.99
				50	25	21.03	22.12	33	-10.88
				100	0	21.06	22.15	33	-10.85
	18700	1860	16QAM	1	0	21.24	22.33	33	-10.67
				1	99	20.95	22.04	33	-10.96
				50	25	20.15	21.24	33	-11.76
				100	0	20.06	21.15	33	-11.85
	18900	1880	16QAM	1	0	21.36	22.45	33	-10.55
				1	99	21.08	22.17	33	-10.83
				50	25	20.05	21.14	33	-11.86
				100	0	20.08	21.17	33	-11.83
19100	1900	16QAM	1	0	21.36	22.45	33	-10.55	
			1	99	21.31	22.40	33	-10.6	
			50	25	20.06	21.15	33	-11.85	
			100	0	20.03	21.12	33	-11.88	

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
Bandwidth	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	23.92	25.84	30	-4.16
				1	5	23.91	25.83	30	-4.17
				3	2	23.96	25.88	30	-4.12
				6	0	22.89	24.81	30	-5.19
	20175	1732.5	QPSK	1	0	23.98	25.90	30	-4.1
				1	5	23.96	25.88	30	-4.12
				3	2	24.03	25.95	30	-4.05
				6	0	22.96	24.88	30	-5.12
	20393	1754.3	QPSK	1	0	24.00	25.92	30	-4.08
				1	5	23.98	25.90	30	-4.1
				3	2	24.08	26.00	30	-4
				6	0	23.04	24.96	30	-5.04
	19957	1710.7	16QAM	1	0	23.12	25.04	30	-4.96
				1	5	23.24	25.16	30	-4.84
				3	2	23.03	24.95	30	-5.05
				6	0	21.99	23.91	30	-6.09
	20175	1732.5	16QAM	1	0	23.21	25.13	30	-4.87
				1	5	23.33	25.25	30	-4.75
				3	2	23.05	24.97	30	-5.03
				6	0	22.14	24.06	30	-5.94
	20393	1754.3	16QAM	1	0	23.26	25.18	30	-4.82
				1	5	23.20	25.12	30	-4.88
				3	2	23.12	25.04	30	-4.96
				6	0	22.10	24.02	30	-5.98

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

Bandwidth	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	23.96	25.88	30	-4.12
				1	14	23.87	25.79	30	-4.21
				8	4	23.00	24.92	30	-5.08
				15	0	23.02	24.94	30	-5.06
	20175	1732.5	QPSK	1	0	24.04	25.96	30	-4.04
				1	14	24.03	25.95	30	-4.05
				8	4	23.13	25.05	30	-4.95
				15	0	23.07	24.99	30	-5.01
	20385	1753.5	QPSK	1	0	24.11	26.03	30	-3.97
				1	14	24.05	25.97	30	-4.03
				8	4	23.15	25.07	30	-4.93
				15	0	23.13	25.05	30	-4.95
	19965	1711.5	16QAM	1	0	22.99	24.91	30	-5.09
				1	14	22.91	24.83	30	-5.17
				8	4	22.10	24.02	30	-5.98
				15	0	22.01	23.93	30	-6.07
	20175	1732.5	16QAM	1	0	23.21	25.13	30	-4.87
				1	14	23.25	25.17	30	-4.83
				8	4	22.17	24.09	30	-5.91
				15	0	22.08	24.00	30	-6
	20385	1753.5	16QAM	1	0	23.49	25.41	30	-4.59
				1	14	23.43	25.35	30	-4.65
				8	4	22.17	24.09	30	-5.91
				15	0	22.20	24.12	30	-5.88

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

Bandwidth	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	24.05	25.97	30	-4.03
				1	24	23.99	25.91	30	-4.09
				12	6	23.01	24.93	30	-5.07
				25	0	22.99	24.91	30	-5.09
	20175	1732.5	QPSK	1	0	24.10	26.02	30	-3.98
				1	24	24.03	25.95	30	-4.05
				12	6	23.10	25.02	30	-4.98
				25	0	23.06	24.98	30	-5.02
	20375	1752.5	QPSK	1	0	24.08	26.00	30	-4
				1	24	24.02	25.94	30	-4.06
				12	6	23.16	25.08	30	-4.92
				25	0	23.15	25.07	30	-4.93
	19975	1712.5	16QAM	1	0	23.18	25.10	30	-4.9
				1	24	23.19	25.11	30	-4.89
				12	6	22.07	23.99	30	-6.01
				25	0	22.01	23.93	30	-6.07
	20175	1732.5	16QAM	1	0	23.41	25.33	30	-4.67
				1	24	23.41	25.33	30	-4.67
				12	6	22.07	23.99	30	-6.01
				25	0	22.07	23.99	30	-6.01
20375	1752.5	16QAM	1	0	23.49	25.41	30	-4.59	
			1	24	23.26	25.18	30	-4.82	
			12	6	22.25	24.17	30	-5.83	
			25	0	22.21	24.13	30	-5.87	

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

Bandwidth	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	24.04	25.96	30	-4.04
				1	24	23.83	25.75	30	-4.25
				12	6	23.04	24.96	30	-5.04
				25	0	23.02	24.94	30	-5.06
	20175	1732.5	QPSK	1	0	24.11	26.03	30	-3.97
				1	24	23.97	25.89	30	-4.11
				12	6	23.11	25.03	30	-4.97
				25	0	23.08	25.00	30	-5
	20375	1750	QPSK	1	0	24.25	26.17	30	-3.83
				1	24	24.03	25.95	30	-4.05
				12	6	23.20	25.12	30	-4.88
				25	0	23.17	25.09	30	-4.91
	20000	1715	16QAM	1	0	23.07	24.99	30	-5.01
				1	24	22.88	24.80	30	-5.2
				12	6	22.05	23.97	30	-6.03
				25	0	22.00	23.92	30	-6.08
	20175	1732.5	16QAM	1	0	23.30	25.22	30	-4.78
				1	24	23.13	25.05	30	-4.95
				12	6	22.10	24.02	30	-5.98
				25	0	22.08	24.00	30	-6
20375	1750	16QAM	1	0	23.44	25.36	30	-4.64	
			1	24	23.47	25.39	30	-4.61	
			12	6	22.26	24.18	30	-5.82	
			25	0	22.25	24.17	30	-5.83	

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

Bandwidth	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	24.19	26.11	30	-3.89
				1	74	23.95	25.87	30	-4.13
				36	19	22.99	24.91	30	-5.09
				75	0	23.06	24.98	30	-5.02
	20175	1732.5	QPSK	1	0	24.24	26.16	30	-3.84
				1	74	24.01	25.93	30	-4.07
				36	19	23.15	25.07	30	-4.93
				75	0	23.15	25.07	30	-4.93
	20325	1747.5	QPSK	1	0	24.39	26.31	30	-3.69
				1	74	24.07	25.99	30	-4.01
				36	19	23.23	25.15	30	-4.85
				75	0	23.20	25.12	30	-4.88
	20025	1717.5	16QAM	1	0	23.35	25.27	30	-4.73
				1	74	23.15	25.07	30	-4.93
				36	19	22.03	23.95	30	-6.05
				75	0	22.13	24.05	30	-5.95
	20175	1732.5	16QAM	1	0	23.39	25.31	30	-4.69
				1	74	23.36	25.28	30	-4.72
				36	19	22.14	24.06	30	-5.94
				75	0	22.11	24.03	30	-5.97
	20325	1747.5	16QAM	1	0	23.41	25.33	30	-4.67
				1	74	23.25	25.17	30	-4.83
				36	19	22.22	24.14	30	-5.86
				75	0	22.19	24.11	30	-5.89

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LTE Band 4

Antenna gain (dBi)

1.92

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz

Bandwidth	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	24.18	26.10	30	-3.9
				1	99	23.85	25.77	30	-4.23
				50	25	23.04	24.96	30	-5.04
				100	0	23.06	24.98	30	-5.02
	20175	1732.5	QPSK	1	0	24.28	26.20	30	-3.8
				1	99	23.96	25.88	30	-4.12
				50	25	23.13	25.05	30	-4.95
				100	0	23.15	25.07	30	-4.93
	20300	1745	QPSK	1	0	24.40	26.32	30	-3.68
				1	99	24.03	25.95	30	-4.05
				50	25	23.24	25.16	30	-4.84
				100	0	23.25	25.17	30	-4.83
	20050	1720	16QAM	1	0	23.16	25.08	30	-4.92
				1	99	22.97	24.89	30	-5.11
				50	25	22.03	23.95	30	-6.05
				100	0	22.00	23.92	30	-6.08
	20175	1732.5	16QAM	1	0	23.41	25.33	30	-4.67
				1	99	23.11	25.03	30	-4.97
				50	25	22.12	24.04	30	-5.96
				100	0	22.09	24.01	30	-5.99
20300	1745	16QAM	1	0	23.88	25.80	30	-4.2	
			1	99	23.50	25.42	30	-4.58	
			50	25	22.27	24.19	30	-5.81	
			100	0	22.23	24.15	30	-5.85	

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LTE Band 5

Antenna gain (dBi)

0.16

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.93	24.09	26.24	40.6	38.45	-14.36
				1	5	23.83	23.99	26.14	40.6	38.45	-14.46
				3	2	23.88	24.04	26.19	40.6	38.45	-14.41
				6	0	22.94	23.10	25.25	40.6	38.45	-15.35
	20525	836.5	QPSK	1	0	23.87	24.03	26.18	40.6	38.45	-14.42
				1	5	23.84	24.00	26.15	40.6	38.45	-14.45
				3	2	23.97	24.13	26.28	40.6	38.45	-14.32
				6	0	22.88	23.04	25.19	40.6	38.45	-15.41
	20643	848.3	QPSK	1	0	23.92	24.08	26.23	40.6	38.45	-14.37
				1	5	23.91	24.07	26.22	40.6	38.45	-14.38
				3	2	23.88	24.04	26.19	40.6	38.45	-14.41
				6	0	22.88	23.04	25.19	40.6	38.45	-15.41
	20407	824.7	16QAM	1	0	23.15	23.31	25.46	40.6	38.45	-15.14
				1	5	23.14	23.30	25.45	40.6	38.45	-15.15
				3	2	23.00	23.16	25.31	40.6	38.45	-15.29
				6	0	22.01	22.17	24.32	40.6	38.45	-16.28
	20525	836.5	16QAM	1	0	23.34	23.50	25.65	40.6	38.45	-14.95
				1	5	23.26	23.42	25.57	40.6	38.45	-15.03
				3	2	22.98	23.14	25.29	40.6	38.45	-15.31
				6	0	21.94	22.10	24.25	40.6	38.45	-16.35
	20643	848.3	16QAM	1	0	23.09	23.25	25.40	40.6	38.45	-15.2
				1	5	22.96	23.12	25.27	40.6	38.45	-15.33
				3	2	22.98	23.14	25.29	40.6	38.45	-15.31
				6	0	21.85	22.01	24.16	40.6	38.45	-16.44

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LTE Band 5

Antenna gain (dBi) 0.16

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.89	24.05	26.20	40.6	38.45	-14.4
				1	14	23.86	24.02	26.17	40.6	38.45	-14.43
				8	4	23.03	23.19	25.34	40.6	38.45	-15.26
				15	0	23.00	23.16	25.31	40.6	38.45	-15.29
	20525	836.5	QPSK	1	0	23.99	24.15	26.30	40.6	38.45	-14.3
				1	14	23.90	24.06	26.21	40.6	38.45	-14.39
				8	4	23.01	23.17	25.32	40.6	38.45	-15.28
				15	0	23.01	23.17	25.32	40.6	38.45	-15.28
	20635	847.5	QPSK	1	0	23.95	24.11	26.26	40.6	38.45	-14.34
				1	14	23.90	24.06	26.21	40.6	38.45	-14.39
				8	4	23.03	23.19	25.34	40.6	38.45	-15.26
				15	0	22.94	23.10	25.25	40.6	38.45	-15.35
	20415	825.5	16QAM	1	0	23.06	23.22	25.37	40.6	38.45	-15.23
				1	14	23.03	23.19	25.34	40.6	38.45	-15.26
				8	4	22.07	22.23	24.38	40.6	38.45	-16.22
				15	0	21.98	22.14	24.29	40.6	38.45	-16.31
	20525	836.5	16QAM	1	0	23.14	23.30	25.45	40.6	38.45	-15.15
				1	14	23.27	23.43	25.58	40.6	38.45	-15.02
				8	4	22.03	22.19	24.34	40.6	38.45	-16.26
				15	0	22.03	22.19	24.34	40.6	38.45	-16.26
	20635	847.5	16QAM	1	0	23.44	23.60	25.75	40.6	38.45	-14.85
				1	14	23.37	23.53	25.68	40.6	38.45	-14.92
				8	4	22.01	22.17	24.32	40.6	38.45	-16.28
				15	0	21.96	22.12	24.27	40.6	38.45	-16.33

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LTE Band 5
Antenna gain (dBi) 0.16

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	24.00	24.16	26.31	40.6	38.45	-14.29
				1	24	23.95	24.11	26.26	40.6	38.45	-14.34
				12	6	23.04	23.20	25.35	40.6	38.45	-15.25
				25	0	22.99	23.15	25.30	40.6	38.45	-15.3
	20525	836.5	QPSK	1	0	24.05	24.21	26.36	40.6	38.45	-14.24
				1	24	23.90	24.06	26.21	40.6	38.45	-14.39
				12	6	23.04	23.20	25.35	40.6	38.45	-15.25
				25	0	23.00	23.16	25.31	40.6	38.45	-15.29
	20625	846.5	QPSK	1	0	24.02	24.18	26.33	40.6	38.45	-14.27
				1	24	23.99	24.15	26.30	40.6	38.45	-14.3
				12	6	23.00	23.16	25.31	40.6	38.45	-15.29
				25	0	22.97	23.13	25.28	40.6	38.45	-15.32
	20425	826.5	16QAM	1	0	23.25	23.41	25.56	40.6	38.45	-15.04
				1	24	23.17	23.33	25.48	40.6	38.45	-15.12
				12	6	21.95	22.11	24.26	40.6	38.45	-16.34
				25	0	21.99	22.15	24.30	40.6	38.45	-16.3
	20525	836.5	16QAM	1	0	23.40	23.56	25.71	40.6	38.45	-14.89
				1	24	23.35	23.51	25.66	40.6	38.45	-14.94
				12	6	22.07	22.23	24.38	40.6	38.45	-16.22
				25	0	21.96	22.12	24.27	40.6	38.45	-16.33
	20625	846.5	16QAM	1	0	23.16	23.32	25.47	40.6	38.45	-15.13
				1	24	23.15	23.31	25.46	40.6	38.45	-15.14
				12	6	22.04	22.20	24.35	40.6	38.45	-16.25
				25	0	21.99	22.15	24.30	40.6	38.45	-16.3

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LTE Band 5

Antenna gain (dBi)

0.16

LTE Band 5_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.95	24.11	26.26	40.6	38.45	-14.34
				1	49	23.81	23.97	26.12	40.6	38.45	-14.48
				25	12	23.05	23.21	25.36	40.6	38.45	-15.24
				50	0	23.03	23.19	25.34	40.6	38.45	-15.26
	20525	836.5	QPSK	1	0	24.07	24.23	26.38	40.6	38.45	-14.22
				1	49	23.88	24.04	26.19	40.6	38.45	-14.41
				25	12	23.03	23.19	25.34	40.6	38.45	-15.26
				50	0	23.03	23.19	25.34	40.6	38.45	-15.26
	20600	844	QPSK	1	0	24.06	24.22	26.37	40.6	38.45	-14.23
				1	49	23.88	24.04	26.19	40.6	38.45	-14.41
				25	12	23.08	23.24	25.39	40.6	38.45	-15.21
				50	0	23.02	23.18	25.33	40.6	38.45	-15.27
	20450	829	16QAM	1	0	23.06	23.22	25.37	40.6	38.45	-15.23
				1	49	22.94	23.10	25.25	40.6	38.45	-15.35
				25	12	21.97	22.13	24.28	40.6	38.45	-16.32
				50	0	21.97	22.13	24.28	40.6	38.45	-16.32
	20525	836.5	16QAM	1	0	23.47	23.63	25.78	40.6	38.45	-14.82
				1	49	23.30	23.46	25.61	40.6	38.45	-14.99
				25	12	22.13	22.29	24.44	40.6	38.45	-16.16
				50	0	22.03	22.19	24.34	40.6	38.45	-16.26
	20600	844	16QAM	1	0	23.43	23.59	25.74	40.6	38.45	-14.86
				1	49	23.38	23.54	25.69	40.6	38.45	-14.91
				25	12	22.14	22.30	24.45	40.6	38.45	-16.15
				50	0	22.04	22.20	24.35	40.6	38.45	-16.25

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LTE Band 7

Antenna gain (dBi)

2.11

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	24.29	26.40	33	-6.6
				1	24	24.23	26.34	33	-6.66
				12	6	23.29	25.40	33	-7.6
				25	0	23.25	25.36	33	-7.64
	21100	2535	QPSK	1	0	24.21	26.32	33	-6.68
				1	24	24.20	26.31	33	-6.69
				12	6	23.22	25.33	33	-7.67
				25	0	23.24	25.35	33	-7.65
	21375	2567.5	QPSK	1	0	24.15	26.26	33	-6.74
				1	24	24.07	26.18	33	-6.82
				12	6	23.15	25.26	33	-7.74
				25	0	23.14	25.25	33	-7.75
	20775	2502.5	16QAM	1	0	23.39	25.50	33	-7.5
				1	24	23.38	25.49	33	-7.51
				12	6	22.35	24.46	33	-8.54
				25	0	22.24	24.35	33	-8.65
	21100	2535	16QAM	1	0	23.43	25.54	33	-7.46
				1	24	23.45	25.56	33	-7.44
				12	6	22.26	24.37	33	-8.63
				25	0	22.24	24.35	33	-8.65
	21375	2567.5	16QAM	1	0	23.39	25.50	33	-7.5
				1	24	23.27	25.38	33	-7.62
				12	6	22.09	24.20	33	-8.8
				25	0	22.12	24.23	33	-8.77

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Antenna gain (dBi)

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	24.26	26.37	33	-6.63
				1	49	24.14	26.25	33	-6.75
				25	12	23.28	25.39	33	-7.61
				50	0	23.24	25.35	33	-7.65
	21100	2535	QPSK	1	0	24.23	26.34	33	-6.66
				1	49	24.09	26.20	33	-6.8
				25	12	23.25	25.36	33	-7.64
				50	0	23.20	25.31	33	-7.69
	21350	2565	QPSK	1	0	24.15	26.26	33	-6.74
				1	49	23.98	26.09	33	-6.91
				25	12	23.15	25.26	33	-7.74
				50	0	23.14	25.25	33	-7.75
	20800	2505	16QAM	1	0	23.39	25.50	33	-7.5
				1	49	23.46	25.57	33	-7.43
				25	12	22.17	24.28	33	-8.72
				50	0	22.27	24.38	33	-8.62
	21100	2535	16QAM	1	0	23.46	25.57	33	-7.43
				1	49	23.20	25.31	33	-7.69
				25	12	22.30	24.41	33	-8.59
				50	0	22.23	24.34	33	-8.66
	21350	2565	16QAM	1	0	23.20	25.31	33	-7.69
				1	49	23.22	25.33	33	-7.67
				25	12	22.22	24.33	33	-8.67
				50	0	22.15	24.26	33	-8.74

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LTE Band 7

Antenna gain (dBi)

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LTE Band 7_Uplink frequency band : 2500 to 2570 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	24.32	26.43	33	-6.57
				1	74	24.13	26.24	33	-6.76
				36	19	23.24	25.35	33	-7.65
				75	0	23.23	25.34	33	-7.66
	21100	2535	QPSK	1	0	24.34	26.45	33	-6.55
				1	74	24.06	26.17	33	-6.83
				36	19	23.24	25.35	33	-7.65
				75	0	23.26	25.37	33	-7.63
	21375	2562.5	QPSK	1	0	24.28	26.39	33	-6.61
				1	74	24.03	26.14	33	-6.86
				36	19	23.20	25.31	33	-7.69
				75	0	23.21	25.32	33	-7.68
	20825	2507.5	16QAM	1	0	23.46	25.57	33	-7.43
				1	74	23.47	25.58	33	-7.42
				36	19	22.25	24.36	33	-8.64
				75	0	22.22	24.33	33	-8.67
	21100	2535	16QAM	1	0	23.83	25.94	33	-7.06
				1	74	23.44	25.55	33	-7.45
				36	19	22.30	24.41	33	-8.59
				75	0	22.30	24.41	33	-8.59
	21375	2562.5	16QAM	1	0	23.49	25.60	33	-7.4
				1	74	23.28	25.39	33	-7.61
				36	19	22.18	24.29	33	-8.71
				75	0	22.18	24.29	33	-8.71

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LTE Band 7

Antenna gain (dBi)

2.11

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	24.42	26.53	33	-6.47
				1	99	24.18	26.29	33	-6.71
				50	25	23.30	25.41	33	-7.59
				100	0	23.27	25.38	33	-7.62
	21100	2535	QPSK	1	0	24.36	26.47	33	-6.53
				1	99	24.06	26.17	33	-6.83
				50	25	23.23	25.34	33	-7.66
				100	0	23.19	25.30	33	-7.7
	21350	2560	QPSK	1	0	24.24	26.35	33	-6.65
				1	99	23.83	25.94	33	-7.06
				50	25	23.20	25.31	33	-7.69
				100	0	23.20	25.31	33	-7.69
	20850	2510	16QAM	1	0	23.75	25.86	33	-7.14
				1	99	23.42	25.53	33	-7.47
				50	25	22.35	24.46	33	-8.54
				100	0	22.26	24.37	33	-8.63
	21100	2535	16QAM	1	0	23.36	25.47	33	-7.53
				1	99	23.28	25.39	33	-7.61
				50	25	22.24	24.35	33	-8.65
				100	0	22.20	24.31	33	-8.69
21350	2560	16QAM	1	0	23.48	25.59	33	-7.41	
			1	99	23.06	25.17	33	-7.83	
			50	25	22.21	24.32	33	-8.68	
			100	0	22.20	24.31	33	-8.69	

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LTE Band 12

Antenna gain (dBi) 0.09

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	23.93	24.02	26.17	36.99	34.77	-10.75
				1	5	23.89	23.98	26.13	36.99	34.77	-10.79
				3	2	23.93	24.02	26.17	36.99	34.77	-10.75
				6	0	22.92	23.01	25.16	36.99	34.77	-11.76
	23095	707.5	QPSK	1	0	23.91	24.00	26.15	36.99	34.77	-10.77
				1	5	23.93	24.02	26.17	36.99	34.77	-10.75
				3	2	23.99	24.08	26.23	36.99	34.77	-10.69
				6	0	22.94	23.03	25.18	36.99	34.77	-11.74
	23173	715.5	QPSK	1	0	23.82	23.91	26.06	36.99	34.77	-10.86
				1	5	23.82	23.91	26.06	36.99	34.77	-10.86
				3	2	23.88	23.97	26.12	36.99	34.77	-10.8
				6	0	22.81	22.90	25.05	36.99	34.77	-11.87
	23017	699.7	16QAM	1	0	22.90	22.99	25.14	36.99	34.77	-11.78
				1	5	22.95	23.04	25.19	36.99	34.77	-11.73
				3	2	23.02	23.11	25.26	36.99	34.77	-11.66
				6	0	21.91	22.00	24.15	36.99	34.77	-12.77
	23095	707.5	16QAM	1	0	23.09	23.18	25.33	36.99	34.77	-11.59
				1	5	23.06	23.15	25.30	36.99	34.77	-11.62
				3	2	23.05	23.14	25.29	36.99	34.77	-11.63
				6	0	22.02	22.11	24.26	36.99	34.77	-12.66
	23173	715.5	16QAM	1	0	23.23	23.32	25.47	36.99	34.77	-11.45
				1	5	23.28	23.37	25.52	36.99	34.77	-11.4
				3	2	22.94	23.03	25.18	36.99	34.77	-11.74
				6	0	22.00	22.09	24.24	36.99	34.77	-12.68

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LTE Band 12
Antenna gain (dBi) 0.09

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	24.00	24.09	26.24	36.99	34.77	-10.68
				1	14	23.95	24.04	26.19	36.99	34.77	-10.73
				8	4	23.08	23.17	25.32	36.99	34.77	-11.6
				15	0	23.03	23.12	25.27	36.99	34.77	-11.65
	23095	707.5	QPSK	1	0	24.02	24.11	26.26	36.99	34.77	-10.66
				1	14	24.00	24.09	26.24	36.99	34.77	-10.68
				8	4	23.06	23.15	25.30	36.99	34.77	-11.62
				15	0	23.00	23.09	25.24	36.99	34.77	-11.68
	23165	714.5	QPSK	1	0	23.89	23.98	26.13	36.99	34.77	-10.79
				1	14	23.84	23.93	26.08	36.99	34.77	-10.84
				8	4	22.97	23.06	25.21	36.99	34.77	-11.71
				15	0	22.93	23.02	25.17	36.99	34.77	-11.75
	23025	700.5	16QAM	1	0	23.47	23.56	25.71	36.99	34.77	-11.21
				1	14	23.08	23.17	25.32	36.99	34.77	-11.6
				8	4	22.05	22.14	24.29	36.99	34.77	-12.63
				15	0	21.95	22.04	24.19	36.99	34.77	-12.73
	23095	707.5	16QAM	1	0	23.22	23.31	25.46	36.99	34.77	-11.46
				1	14	23.27	23.36	25.51	36.99	34.77	-11.41
				8	4	21.97	22.06	24.21	36.99	34.77	-12.71
				15	0	22.03	22.12	24.27	36.99	34.77	-12.65
	23165	714.5	16QAM	1	0	23.30	23.39	25.54	36.99	34.77	-11.38
				1	14	23.32	23.41	25.56	36.99	34.77	-11.36
				8	4	22.02	22.11	24.26	36.99	34.77	-12.66
				15	0	21.91	22.00	24.15	36.99	34.77	-12.77

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LTE Band 12

Antenna gain (dBi) 0.09

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	24.00	24.09	26.24	36.99	34.77	-10.68
				1	24	24.06	24.15	26.30	36.99	34.77	-10.62
				12	6	23.01	23.10	25.25	36.99	34.77	-11.67
				25	0	22.97	23.06	25.21	36.99	34.77	-11.71
	23095	707.5	QPSK	1	0	24.02	24.11	26.26	36.99	34.77	-10.66
				1	24	23.94	24.03	26.18	36.99	34.77	-10.74
				12	6	23.06	23.15	25.30	36.99	34.77	-11.62
				25	0	23.01	23.10	25.25	36.99	34.77	-11.67
	23155	713.5	QPSK	1	0	23.93	24.02	26.17	36.99	34.77	-10.75
				1	24	23.89	23.98	26.13	36.99	34.77	-10.79
				12	6	22.96	23.05	25.20	36.99	34.77	-11.72
				25	0	22.94	23.03	25.18	36.99	34.77	-11.74
	23035	701.5	16QAM	1	0	23.00	23.09	25.24	36.99	34.77	-11.68
				1	24	22.90	22.99	25.14	36.99	34.77	-11.78
				12	6	22.07	22.16	24.31	36.99	34.77	-12.61
				25	0	21.97	22.06	24.21	36.99	34.77	-12.71
	23095	707.5	16QAM	1	0	23.10	23.19	25.34	36.99	34.77	-11.58
				1	24	23.04	23.13	25.28	36.99	34.77	-11.64
				12	6	22.06	22.15	24.30	36.99	34.77	-12.62
				25	0	21.98	22.07	24.22	36.99	34.77	-12.7
	23155	713.5	16QAM	1	0	23.43	23.52	25.67	36.99	34.77	-11.25
				1	24	23.37	23.46	25.61	36.99	34.77	-11.31
				12	6	22.02	22.11	24.26	36.99	34.77	-12.66
				25	0	21.95	22.04	24.19	36.99	34.77	-12.73

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LTE Band 12
Antenna gain (dBi) 0.09

LTE Band 12_Uplink frequency band : 699 to 716 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	24.05	24.14	26.29	36.99	34.77	-10.63
				1	49	23.97	24.06	26.21	36.99	34.77	-10.71
				25	12	23.12	23.21	25.36	36.99	34.77	-11.56
				50	0	23.08	23.17	25.32	36.99	34.77	-11.6
	23095	707.5	QPSK	1	0	24.03	24.12	26.27	36.99	34.77	-10.65
				1	49	23.94	24.03	26.18	36.99	34.77	-10.74
				25	12	23.06	23.15	25.30	36.99	34.77	-11.62
				50	0	23.01	23.10	25.25	36.99	34.77	-11.67
	23130	711	QPSK	1	0	23.98	24.07	26.22	36.99	34.77	-10.7
				1	49	23.87	23.96	26.11	36.99	34.77	-10.81
				25	12	23.01	23.10	25.25	36.99	34.77	-11.67
				50	0	22.98	23.07	25.22	36.99	34.77	-11.7
	23060	704	16QAM	1	0	23.23	23.32	25.47	36.99	34.77	-11.45
				1	49	23.24	23.33	25.48	36.99	34.77	-11.44
				25	12	22.13	22.22	24.37	36.99	34.77	-12.55
				50	0	22.10	22.19	24.34	36.99	34.77	-12.58
	23095	707.5	16QAM	1	0	23.24	23.33	25.48	36.99	34.77	-11.44
				1	49	23.21	23.30	25.45	36.99	34.77	-11.47
				25	12	21.96	22.05	24.20	36.99	34.77	-12.72
				50	0	21.99	22.08	24.23	36.99	34.77	-12.69
	23130	711	16QAM	1	0	23.41	23.50	25.65	36.99	34.77	-11.27
				1	49	23.36	23.45	25.60	36.99	34.77	-11.32
				25	12	21.99	22.08	24.23	36.99	34.77	-12.69
				50	0	21.97	22.06	24.21	36.99	34.77	-12.71

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LTE Band 13
Antenna gain (dBi) 1.48

LTE Band 13_Uplink frequency band : 777 to 787 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.50	24.98	27.13	36.99	34.77	-9.79
				1	24	23.83	25.31	27.46	36.99	34.77	-9.46
				12	6	23.01	24.49	26.64	36.99	34.77	-10.28
				25	0	22.97	24.45	26.60	36.99	34.77	-10.32
	23230	782	QPSK	1	0	24.08	25.56	27.71	36.99	34.77	-9.21
				1	24	23.97	25.45	27.60	36.99	34.77	-9.32
				12	6	23.09	24.57	26.72	36.99	34.77	-10.2
				25	0	23.04	24.52	26.67	36.99	34.77	-10.25
	23255	784.5	QPSK	1	0	23.92	25.40	27.55	36.99	34.77	-9.37
				1	24	23.87	25.35	27.50	36.99	34.77	-9.42
				12	6	23.06	24.54	26.69	36.99	34.77	-10.23
				25	0	22.95	24.43	26.58	36.99	34.77	-10.34
	23205	779.5	16QAM	1	0	22.70	24.18	26.33	36.99	34.77	-10.59
				1	24	23.16	24.64	26.79	36.99	34.77	-10.13
				12	6	21.98	23.46	25.61	36.99	34.77	-11.31
				25	0	21.96	23.44	25.59	36.99	34.77	-11.33
	23230	782	16QAM	1	0	23.17	24.65	26.80	36.99	34.77	-10.12
				1	24	23.16	24.64	26.79	36.99	34.77	-10.13
				12	6	22.13	23.61	25.76	36.99	34.77	-11.16
				25	0	22.11	23.59	25.74	36.99	34.77	-11.18
	23255	784.5	16QAM	1	0	23.00	24.48	26.63	36.99	34.77	-10.29
				1	24	22.95	24.43	26.58	36.99	34.77	-10.34
				12	6	22.11	23.59	25.74	36.99	34.77	-11.18
				25	0	22.01	23.49	25.64	36.99	34.77	-11.28

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LTE Band 13

Antenna gain (dBi) 1.48

LTE Band 13_Uplink frequency band : 777 to 787 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.70	25.18	27.33	36.99	34.77	-9.59
				1	49	23.89	25.37	27.52	36.99	34.77	-9.4
				25	12	23.10	24.58	26.73	36.99	34.77	-10.19
				50	0	23.05	24.53	26.68	36.99	34.77	-10.24
	23230	782	16QAM	1	0	22.98	24.46	26.61	36.99	34.77	-10.31
				1	49	23.25	24.73	26.88	36.99	34.77	-10.04
				25	12	22.10	23.58	25.73	36.99	34.77	-11.19
				50	0	22.06	23.54	25.69	36.99	34.77	-11.23

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26047	1850.7	QPSK	1	0	21.81	22.90	33	-10.1
				1	5	21.64	22.73	33	-10.27
				3	2	21.90	22.99	33	-10.01
				6	0	20.85	21.94	33	-11.06
	26365	1882.5	QPSK	1	0	21.88	22.97	33	-10.03
				1	5	21.94	23.03	33	-9.97
				3	2	21.93	23.02	33	-9.98
				6	0	21.00	22.09	33	-10.91
	26683	1914.3	QPSK	1	0	22.00	23.09	33	-9.91
				1	5	21.97	23.06	33	-9.94
				3	2	21.98	23.07	33	-9.93
				6	0	20.93	22.02	33	-10.98
	26047	1850.7	16QAM	1	0	21.10	22.19	33	-10.81
				1	5	20.91	22.00	33	-11
				3	2	21.02	22.11	33	-10.89
				6	0	19.93	21.02	33	-11.98
	26365	1882.5	16QAM	1	0	20.98	22.07	33	-10.93
				1	5	21.06	22.15	33	-10.85
				3	2	20.99	22.08	33	-10.92
				6	0	20.11	21.20	33	-11.8
	26683	1914.3	16QAM	1	0	21.34	22.43	33	-10.57
				1	5	21.36	22.45	33	-10.55
				3	2	21.05	22.14	33	-10.86
				6	0	20.00	21.09	33	-11.91

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	22.01	23.10	33	-9.9
				1	14	21.74	22.83	33	-10.17
				8	4	21.00	22.09	33	-10.91
				15	0	20.97	22.06	33	-10.94
	26365	1882.5	QPSK	1	0	22.01	23.10	33	-9.9
				1	14	22.13	23.22	33	-9.78
				8	4	21.11	22.20	33	-10.8
				15	0	21.08	22.17	33	-10.83
	26675	1913.5	QPSK	1	0	22.10	23.19	33	-9.81
				1	14	22.05	23.14	33	-9.86
				8	4	21.09	22.18	33	-10.82
				15	0	21.04	22.13	33	-10.87
	26055	1851.5	16QAM	1	0	20.64	21.73	33	-11.27
				1	14	20.87	21.96	33	-11.04
				8	4	19.97	21.06	33	-11.94
				15	0	19.78	20.87	33	-12.13
	26365	1882.5	16QAM	1	0	20.91	22.00	33	-11
				1	14	20.77	21.86	33	-11.14
				8	4	20.16	21.25	33	-11.75
				15	0	20.12	21.21	33	-11.79
	26675	1913.5	16QAM	1	0	21.40	22.49	33	-10.51
				1	14	21.27	22.36	33	-10.64
				8	4	20.09	21.18	33	-11.82
				15	0	20.09	21.18	33	-11.82

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	22.09	23.18	33	-9.82
				1	24	21.86	22.95	33	-10.05
				12	6	21.01	22.10	33	-10.9
				25	0	20.93	22.02	33	-10.98
	26365	1882.5	QPSK	1	0	22.02	23.11	33	-9.89
				1	24	22.05	23.14	33	-9.86
				12	6	21.12	22.21	33	-10.79
				25	0	21.06	22.15	33	-10.85
	26665	1912.5	QPSK	1	0	21.80	22.89	33	-10.11
				1	24	22.05	23.14	33	-9.86
				12	6	21.10	22.19	33	-10.81
				25	0	21.09	22.18	33	-10.82
	26065	1852.5	16QAM	1	0	21.00	22.09	33	-10.91
				1	24	20.93	22.02	33	-10.98
				12	6	19.97	21.06	33	-11.94
				25	0	19.95	21.04	33	-11.96
	26365	1882.5	16QAM	1	0	20.91	22.00	33	-11
				1	24	20.68	21.77	33	-11.23
				12	6	20.16	21.25	33	-11.75
				25	0	20.10	21.19	33	-11.81
	26665	1912.5	16QAM	1	0	21.23	22.32	33	-10.68
				1	24	21.31	22.40	33	-10.6
				12	6	20.08	21.17	33	-11.83
				25	0	20.11	21.20	33	-11.8

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	21.99	23.08	33	-9.92
				1	49	21.83	22.92	33	-10.08
				25	12	21.06	22.15	33	-10.85
				50	0	21.03	22.12	33	-10.88
	26365	1882.5	QPSK	1	0	22.21	23.30	33	-9.7
				1	49	22.14	23.23	33	-9.77
				25	12	21.08	22.17	33	-10.83
				50	0	21.23	22.32	33	-10.68
	26640	1910	QPSK	1	0	22.31	23.40	33	-9.6
				1	49	22.16	23.25	33	-9.75
				25	12	21.11	22.20	33	-10.8
				50	0	21.11	22.20	33	-10.8
	26090	1855	16QAM	1	0	21.36	22.45	33	-10.55
				1	49	21.16	22.25	33	-10.75
				25	12	19.92	21.01	33	-11.99
				50	0	19.94	21.03	33	-11.97
	26365	1882.5	16QAM	1	0	20.57	21.66	33	-11.34
				1	49	21.41	22.50	33	-10.5
				25	12	20.13	21.22	33	-11.78
				50	0	20.13	21.22	33	-11.78
	26640	1910	16QAM	1	0	21.13	22.22	33	-10.78
				1	49	20.01	21.10	33	-11.9
				25	12	19.98	21.07	33	-11.93
				50	0	20.14	21.23	33	-11.77

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	22.22	23.31	33	-9.69
				1	74	21.98	23.07	33	-9.93
				36	19	21.07	22.16	33	-10.84
				75	0	20.11	21.20	33	-11.8
	26365	1882.5	QPSK	1	0	22.23	23.32	33	-9.68
				1	74	22.15	23.24	33	-9.76
				36	19	21.09	22.18	33	-10.82
				75	0	21.11	22.20	33	-10.8
	26615	1907.5	QPSK	1	0	22.21	23.30	33	-9.7
				1	74	22.05	23.14	33	-9.86
				36	19	21.18	22.27	33	-10.73
				75	0	21.14	22.23	33	-10.77
	26115	1857.5	16QAM	1	0	21.70	22.79	33	-10.21
				1	74	21.42	22.51	33	-10.49
				36	19	20.07	21.16	33	-11.84
				75	0	20.07	21.16	33	-11.84
	26365	1882.5	16QAM	1	0	20.72	21.81	33	-11.19
				1	74	21.43	22.52	33	-10.48
				36	19	20.17	21.26	33	-11.74
				75	0	19.19	20.28	33	-12.72
	26615	1907.5	16QAM	1	0	21.42	22.51	33	-10.49
				1	74	21.24	22.33	33	-10.67
				36	19	20.03	21.12	33	-11.88
				75	0	20.13	21.22	33	-11.78

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LTE Band 25

Antenna gain (dBi)

1.09

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	22.22	23.31	33	-9.69
				1	99	21.96	23.05	33	-9.95
				50	25	21.26	22.35	33	-10.65
				100	0	21.12	22.21	33	-10.79
	26365	1882.5	QPSK	1	0	22.22	23.31	33	-9.69
				1	99	22.13	23.22	33	-9.78
				50	25	21.35	22.44	33	-10.56
				100	0	21.15	22.24	33	-10.76
	26590	1905	QPSK	1	0	22.20	23.29	33	-9.71
				1	99	21.97	23.06	33	-9.94
				50	25	21.28	22.37	33	-10.63
				100	0	21.06	22.15	33	-10.85
	26140	1860	16QAM	1	0	21.36	22.45	33	-10.55
				1	99	21.14	22.23	33	-10.77
				50	25	20.00	21.09	33	-11.91
				100	0	20.11	21.20	33	-11.8
	26365	1882.5	16QAM	1	0	21.31	22.40	33	-10.6
				1	99	21.00	22.09	33	-10.91
				50	25	20.16	21.25	33	-11.75
				100	0	20.17	21.26	33	-11.74
26590	1905	16QAM	1	0	21.39	22.48	33	-10.52	
			1	99	21.20	22.29	33	-10.71	
			50	25	20.05	21.14	33	-11.86	
			100	0	20.04	21.13	33	-11.87	

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LTE Band 26
Antenna gain (dBi) 0.72

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.87	24.59	26.74	40.6	38.45	-13.86
				1	5	23.88	24.60	26.75	40.6	38.45	-13.85
				3	2	23.93	24.65	26.80	40.6	38.45	-13.8
	26915	836.5	QPSK	6	0	22.92	23.64	25.79	40.6	38.45	-14.81
				1	0	24.00	24.72	26.87	40.6	38.45	-13.73
				1	5	23.96	24.68	26.83	40.6	38.45	-13.77
	27033	848.3	QPSK	3	2	24.02	24.74	26.89	40.6	38.45	-13.71
				6	0	23.00	23.72	25.87	40.6	38.45	-14.73
				1	0	23.88	24.60	26.75	40.6	38.45	-13.85
	26797	824.7	16QAM	1	5	23.85	24.57	26.72	40.6	38.45	-13.88
				3	2	23.94	24.66	26.81	40.6	38.45	-13.79
				6	0	22.95	23.67	25.82	40.6	38.45	-14.78
	26915	836.5	16QAM	1	0	23.11	23.83	25.98	40.6	38.45	-14.62
				1	5	23.01	23.73	25.88	40.6	38.45	-14.72
				3	2	23.00	23.72	25.87	40.6	38.45	-14.73
	27033	848.3	16QAM	6	0	21.95	22.67	24.82	40.6	38.45	-15.78
				1	0	23.27	23.99	26.14	40.6	38.45	-14.46
				1	5	23.21	23.93	26.08	40.6	38.45	-14.52
	26797	824.7	16QAM	3	2	23.09	23.81	25.96	40.6	38.45	-14.64
				6	0	22.07	22.79	24.94	40.6	38.45	-15.66
				1	0	23.31	24.03	26.18	40.6	38.45	-14.42
	27033	848.3	16QAM	1	5	23.37	24.09	26.24	40.6	38.45	-14.36
				3	2	23.02	23.74	25.89	40.6	38.45	-14.71
				6	0	22.02	22.74	24.89	40.6	38.45	-15.71

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LTE Band 26
Antenna gain (dBi) 0.72

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	24.14	24.86	27.01	40.6	38.45	-13.59
				1	14	24.13	24.85	27.00	40.6	38.45	-13.6
				8	4	23.11	23.83	25.98	40.6	38.45	-14.62
				15	0	23.11	23.83	25.98	40.6	38.45	-14.62
	26915	836.5	QPSK	1	0	23.97	24.69	26.84	40.6	38.45	-13.76
				1	14	23.95	24.67	26.82	40.6	38.45	-13.78
				8	4	23.10	23.82	25.97	40.6	38.45	-14.63
				15	0	23.14	23.86	26.01	40.6	38.45	-14.59
	27025	847.5	QPSK	1	0	24.04	24.76	26.91	40.6	38.45	-13.69
				1	14	24.01	24.73	26.88	40.6	38.45	-13.72
				8	4	23.10	23.82	25.97	40.6	38.45	-14.63
				15	0	23.07	23.79	25.94	40.6	38.45	-14.66
	26805	825.5	16QAM	1	0	23.24	23.96	26.11	40.6	38.45	-14.49
				1	14	23.19	23.91	26.06	40.6	38.45	-14.54
				8	4	22.24	22.96	25.11	40.6	38.45	-15.49
				15	0	22.16	22.88	25.03	40.6	38.45	-15.57
	26915	836.5	16QAM	1	0	23.17	23.89	26.04	40.6	38.45	-14.56
				1	14	23.08	23.80	25.95	40.6	38.45	-14.65
				8	4	22.11	22.83	24.98	40.6	38.45	-15.62
				15	0	22.05	22.77	24.92	40.6	38.45	-15.68
	27025	847.5	16QAM	1	0	23.21	23.93	26.08	40.6	38.45	-14.52
				1	14	23.33	24.05	26.20	40.6	38.45	-14.4
				8	4	22.14	22.86	25.01	40.6	38.45	-15.59
				15	0	22.09	22.81	24.96	40.6	38.45	-15.64

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LTE Band 26

Antenna gain (dBi) 0.72

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	24.09	24.81	26.96	40.6	38.45	-13.64
				1	24	24.06	24.78	26.93	40.6	38.45	-13.67
				12	6	23.13	23.85	26.00	40.6	38.45	-14.6
				25	0	23.10	23.82	25.97	40.6	38.45	-14.63
	26915	836.5	QPSK	1	0	24.10	24.82	26.97	40.6	38.45	-13.63
				1	24	24.06	24.78	26.93	40.6	38.45	-13.67
				12	6	23.13	23.85	26.00	40.6	38.45	-14.6
				25	0	23.10	23.82	25.97	40.6	38.45	-14.63
	27015	846.5	QPSK	1	0	24.05	24.77	26.92	40.6	38.45	-13.68
				1	24	24.02	24.74	26.89	40.6	38.45	-13.71
				12	6	23.11	23.83	25.98	40.6	38.45	-14.62
				25	0	23.07	23.79	25.94	40.6	38.45	-14.66
	26815	826.5	16QAM	1	0	23.50	24.22	26.37	40.6	38.45	-14.23
				1	24	23.38	24.10	26.25	40.6	38.45	-14.35
				12	6	22.10	22.82	24.97	40.6	38.45	-15.63
				25	0	22.12	22.84	24.99	40.6	38.45	-15.61
	26915	836.5	16QAM	1	0	23.35	24.07	26.22	40.6	38.45	-14.38
				1	24	23.25	23.97	26.12	40.6	38.45	-14.48
				12	6	22.07	22.79	24.94	40.6	38.45	-15.66
				25	0	22.05	22.77	24.92	40.6	38.45	-15.68
27015	846.5	16QAM	1	0	23.50	24.22	26.37	40.6	38.45	-14.23	
			1	24	23.40	24.12	26.27	40.6	38.45	-14.33	
			12	6	22.12	22.84	24.99	40.6	38.45	-15.61	
			25	0	22.03	22.75	24.90	40.6	38.45	-15.7	

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LTE Band 26

Antenna gain (dBi) 0.72

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	24.10	24.82	26.97	40.6	38.45	-13.63
				1	49	23.99	24.71	26.86	40.6	38.45	-13.74
				25	12	23.14	23.86	26.01	40.6	38.45	-14.59
				50	0	23.07	23.79	25.94	40.6	38.45	-14.66
	26915	836.5	QPSK	1	0	24.06	24.78	26.93	40.6	38.45	-13.67
				1	49	23.97	24.69	26.84	40.6	38.45	-13.76
				25	12	23.11	23.83	25.98	40.6	38.45	-14.62
				50	0	23.09	23.81	25.96	40.6	38.45	-14.64
	26990	844	QPSK	1	0	24.13	24.85	27.00	40.6	38.45	-13.6
				1	49	23.95	24.67	26.82	40.6	38.45	-13.78
				25	12	23.14	23.86	26.01	40.6	38.45	-14.59
				50	0	23.11	23.83	25.98	40.6	38.45	-14.62
	26840	829	16QAM	1	0	23.24	23.96	26.11	40.6	38.45	-14.49
				1	49	22.96	23.68	25.83	40.6	38.45	-14.77
				25	12	22.11	22.83	24.98	40.6	38.45	-15.62
				50	0	22.13	22.85	25.00	40.6	38.45	-15.6
	26915	836.5	16QAM	1	0	23.15	23.87	26.02	40.6	38.45	-14.58
				1	49	23.10	23.82	25.97	40.6	38.45	-14.63
				25	12	22.12	22.84	24.99	40.6	38.45	-15.61
				50	0	22.05	22.77	24.92	40.6	38.45	-15.68
	26990	844	16QAM	1	0	23.50	24.22	26.37	40.6	38.45	-14.23
				1	49	23.36	24.08	26.23	40.6	38.45	-14.37
				25	12	22.16	22.88	25.03	40.6	38.45	-15.57
				50	0	22.12	22.84	24.99	40.6	38.45	-15.61

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LTE Band 26

Antenna gain (dBi) 0.72

LTE Band 26_Uplink frequency band : 824 to 849 MHz											
Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	IC EIRP Limit (dBm)	ERP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	24.11	24.83	26.98	40.6	38.45	-13.62
				1	74	23.92	24.64	26.79	40.6	38.45	-13.81
				36	19	23.14	23.86	26.01	40.6	38.45	-14.59
				75	0	23.09	23.81	25.96	40.6	38.45	-14.64
	26915	836.5	QPSK	1	0	24.21	24.93	27.08	40.6	38.45	-13.52
				1	74	23.95	24.67	26.82	40.6	38.45	-13.78
				36	19	23.14	23.86	26.01	40.6	38.45	-14.59
				75	0	23.10	23.82	25.97	40.6	38.45	-14.63
	26965	841.5	QPSK	1	0	24.23	24.95	27.10	40.6	38.45	-13.5
				1	74	23.97	24.69	26.84	40.6	38.45	-13.76
				36	19	23.18	23.90	26.05	40.6	38.45	-14.55
				75	0	23.16	23.88	26.03	40.6	38.45	-14.57
	26865	831.5	16QAM	1	0	23.37	24.09	26.24	40.6	38.45	-14.36
				1	74	23.18	23.90	26.05	40.6	38.45	-14.55
				36	19	22.11	22.83	24.98	40.6	38.45	-15.62
				75	0	22.13	22.85	25.00	40.6	38.45	-15.6
	26915	836.5	16QAM	1	0	23.44	24.16	26.31	40.6	38.45	-14.29
				1	74	23.20	23.92	26.07	40.6	38.45	-14.53
				36	19	22.17	22.89	25.04	40.6	38.45	-15.56
				75	0	22.17	22.89	25.04	40.6	38.45	-15.56
	26965	841.5	16QAM	1	0	23.46	24.18	26.33	40.6	38.45	-14.27
				1	74	23.48	24.20	26.35	40.6	38.45	-14.25
				36	19	22.14	22.86	25.01	40.6	38.45	-15.59
				75	0	22.14	22.86	25.01	40.6	38.45	-15.59

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LTE Band 26 for Part 90S
Antenna gain (dBi)

0.72

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP / EIRP Average (dBm)	ERP / EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.94	24.66	50	-25.34
				1	5	23.88	24.60	50	-25.4
				3	2	23.87	24.59	50	-25.41
				6	0	22.87	23.59	50	-26.41
	26740	819	QPSK	1	0	24.03	24.75	50	-25.25
				1	5	23.97	24.69	50	-25.31
				3	2	23.99	24.71	50	-25.29
				6	0	23.01	23.73	50	-26.27
	26783	823.3	QPSK	1	0	23.90	24.62	50	-25.38
				1	5	23.87	24.59	50	-25.41
				3	2	23.98	24.70	50	-25.3
				6	0	22.92	23.64	50	-26.36
	26697	814.7	16QAM	1	0	22.89	23.61	50	-26.39
				1	5	22.84	23.56	50	-26.44
				3	2	22.98	23.70	50	-26.3
				6	0	21.98	22.70	50	-27.3
	26740	819	16QAM	1	0	23.20	23.92	50	-26.08
				1	5	23.05	23.77	50	-26.23
				3	2	23.01	23.73	50	-26.27
				6	0	22.10	22.82	50	-27.18
	26783	823.3	16QAM	1	0	23.40	24.12	50	-25.88
				1	5	23.38	24.10	50	-25.9
				3	2	22.91	23.63	50	-26.37
				6	0	21.93	22.65	50	-27.35

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LTE Band 26 for Part 90S
Antenna gain (dBi) 0.72

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP / EIRP Average (dBm)	ERP / EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	24.05	24.77	50	-25.23
				1	14	23.99	24.71	50	-25.29
				8	4	23.02	23.74	50	-26.26
				15	0	22.99	23.71	50	-26.29
	26740	819	QPSK	1	0	24.03	24.75	50	-25.25
				1	14	23.95	24.67	50	-25.33
				8	4	23.09	23.81	50	-26.19
				15	0	23.02	23.74	50	-26.26
	26775	822.5	QPSK	1	0	24.01	24.73	50	-25.27
				1	14	23.96	24.68	50	-25.32
				8	4	23.05	23.77	50	-26.23
				15	0	23.00	23.72	50	-26.28
	26705	815.5	16QAM	1	0	23.10	23.82	50	-26.18
				1	14	23.05	23.77	50	-26.23
				8	4	22.06	22.78	50	-27.22
				15	0	21.96	22.68	50	-27.32
	26740	819	16QAM	1	0	23.40	24.12	50	-25.88
				1	14	23.43	24.15	50	-25.85
				8	4	22.08	22.80	50	-27.2
				15	0	22.12	22.84	50	-27.16
	26775	822.5	16QAM	1	0	23.12	23.84	50	-26.16
				1	14	23.14	23.86	50	-26.14
				8	4	22.04	22.76	50	-27.24
				15	0	22.05	22.77	50	-27.23

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LTE Band 26 for Part 90S
Antenna gain (dBi) 0.72

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP / EIRP Average (dBm)	ERP / EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	24.08	24.80	50	-25.2
				1	24	23.96	24.68	50	-25.32
				12	6	23.00	23.72	50	-26.28
				25	0	22.94	23.66	50	-26.34
	26740	819	QPSK	1	0	24.00	24.72	50	-25.28
				1	24	23.97	24.69	50	-25.31
				12	6	23.09	23.81	50	-26.19
				25	0	23.06	23.78	50	-26.22
	26765	821.5	QPSK	1	0	23.97	24.69	50	-25.31
				1	24	23.89	24.61	50	-25.39
				12	6	23.03	23.75	50	-26.25
				25	0	23.03	23.75	50	-26.25
	26715	816.5	16QAM	1	0	23.28	24.00	50	-26
				1	24	23.20	23.92	50	-26.08
				12	6	22.02	22.74	50	-27.26
				25	0	21.93	22.65	50	-27.35
	26740	819	16QAM	1	0	23.29	24.01	50	-25.99
				1	24	23.15	23.87	50	-26.13
				12	6	22.10	22.82	50	-27.18
				25	0	22.08	22.80	50	-27.2
26765	821.5	16QAM	1	0	22.97	23.69	50	-26.31	
			1	24	22.92	23.64	50	-26.36	
			12	6	22.09	22.81	50	-27.19	
			25	0	22.03	22.75	50	-27.25	

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LTE Band 26 for Part 90S

Antenna gain (dBi) 0.72

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP / EIRP Average (dBm)	ERP / EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	24.09	24.81	50	-25.19
				1	49	23.94	24.66	50	-25.34
				25	12	23.12	23.84	50	-26.16
				50	0	23.09	23.81	50	-26.19
	26740	819	16QAM	1	0	23.25	23.97	50	-26.03
				1	49	23.14	23.86	50	-26.14
				25	12	22.10	22.82	50	-27.18
				50	0	22.10	22.82	50	-27.18

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LTE Band 30

Antenna gain (dBi)

0.95

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz

Bandwidth	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	23.04	23.99	24	-0.01
				1	24	23.04	23.99	24	-0.01
				12	6	22.66	23.61	24	-0.39
				25	0	22.64	23.59	24	-0.41
	27710	2310	QPSK	1	0	23.01	23.96	24	-0.04
				1	24	23.04	23.99	24	-0.01
				12	6	22.67	23.62	24	-0.38
				25	0	22.63	23.58	24	-0.42
	27735	2312.5	QPSK	1	0	23.00	23.95	24	-0.05
				1	24	23.00	23.95	24	-0.05
				12	6	22.68	23.63	24	-0.37
				25	0	22.71	23.66	24	-0.34
	27685	2307.5	16QAM	1	0	22.94	23.89	24	-0.11
				1	24	22.86	23.81	24	-0.19
				12	6	21.67	22.62	24	-1.38
				25	0	21.67	22.62	24	-1.38
	27710	2310	16QAM	1	0	22.91	23.86	24	-0.14
				1	24	22.87	23.82	24	-0.18
				12	6	21.63	22.58	24	-1.42
				25	0	21.59	22.54	24	-1.46
27735	2312.5	16QAM	1	0	22.90	23.85	24	-0.15	
			1	24	22.93	23.88	24	-0.12	
			12	6	21.78	22.73	24	-1.27	
			25	0	21.71	22.66	24	-1.34	

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LTE Band 30

Antenna gain (dBi) 0.95

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
Bandwidth	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	23.00	23.95	24	-0.05
				1	49	23.01	23.96	24	-0.04
				25	12	22.66	23.61	24	-0.39
				50	0	22.61	23.56	24	-0.44
	27710	2310	16QAM	1	0	22.89	23.84	24	-0.16
				1	49	22.80	23.75	24	-0.25
				25	12	21.70	22.65	24	-1.35
				50	0	21.63	22.58	24	-1.42

EIRP Power Density

LTE Band 30_Conducted Power Density (dBm/5MHz)									
BW	5MHz		10MHz		BW	5MHz		10MHz	
Modulation	QPSK	16QAM	QPSK	16QAM	Modulation	QPSK	16QAM	QPSK	16QAM
Lowest CH	22.95	22.84			Lowest CH	23.90	23.79		
Middle CH	22.92	22.89	22.93	22.86	Middle CH	23.87	23.84	23.88	23.81
Highest CH	22.93	22.89			Highest CH	23.88	23.84		
Antenna Gain						0.95			
Limit						250mW / 5MHz = 24dBm / 5MHz			

*Refer to next page for plots

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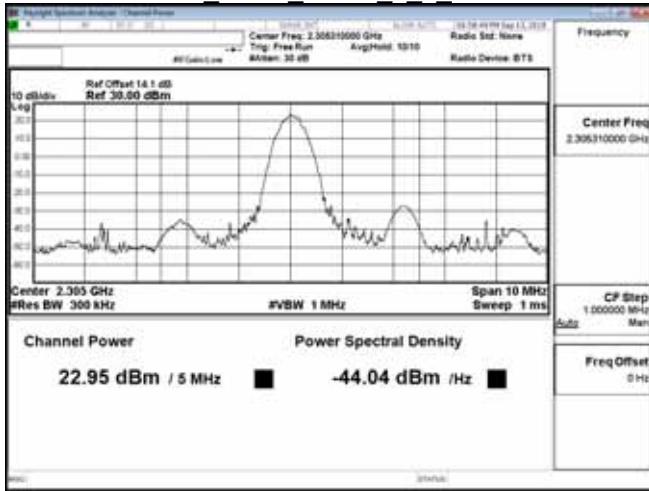
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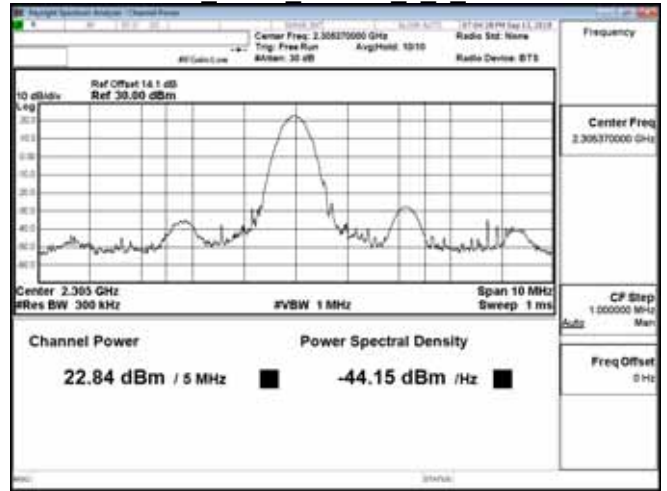
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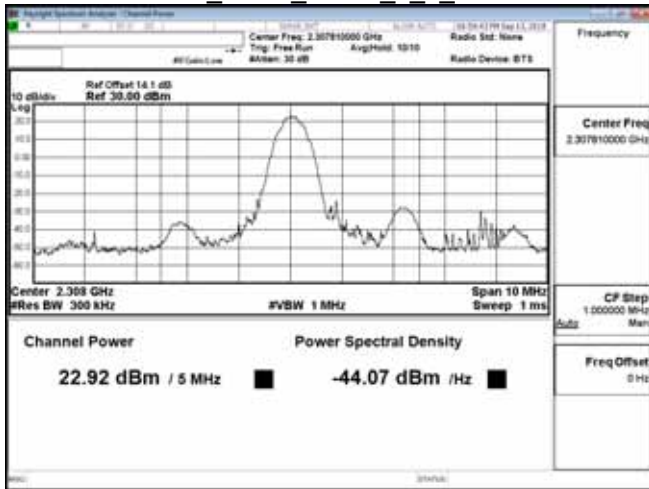
Band30_5MHz_QPSK_1_0_CH Low



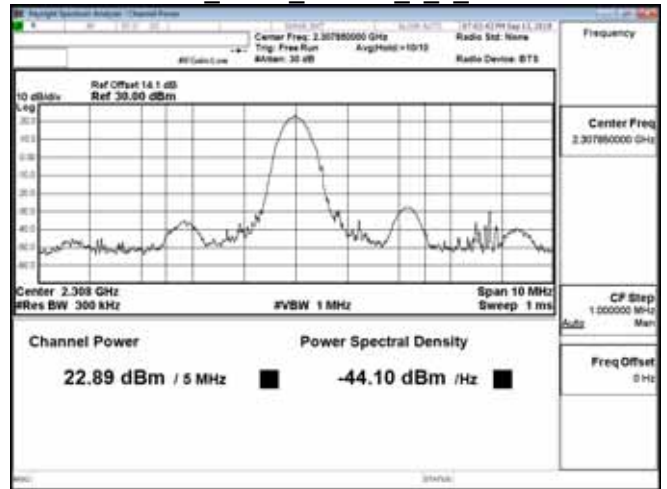
Band30_5MHz_16QAM_1_0_CH Low



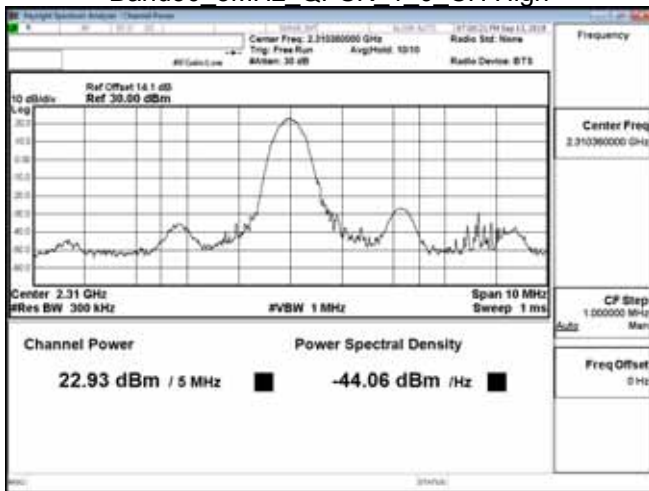
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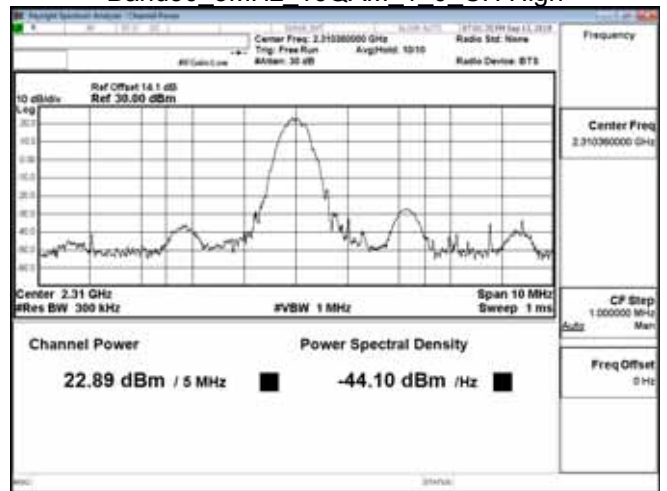
Band30_5MHz_16QAM_1_0_CH Mid



Band30_5MHz_QPSK_1_0_CH High



Band30_5MHz_16QAM_1_0_CH High

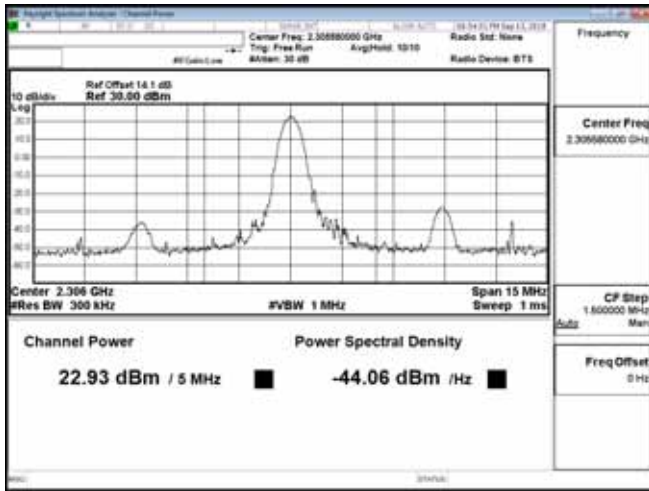


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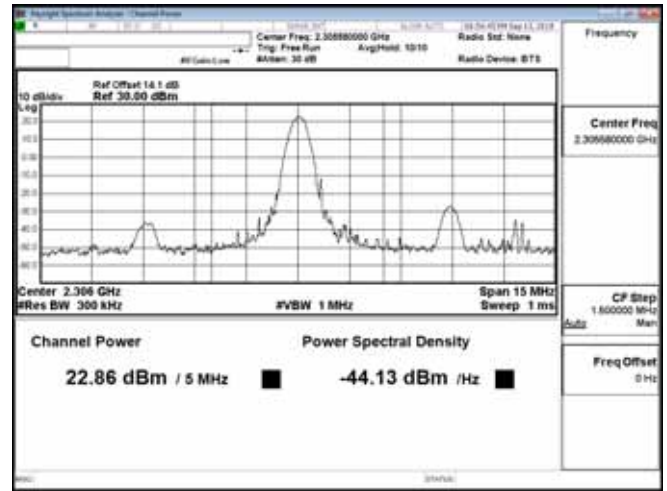
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Band30_10MHz_QPSK_1_0_CH Mid



Band30_10MHz_16QAM_1_0_CH Mid



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LTE Band 38

Duty Cycle Correction Factor

Antenna gain (dBi) 2.11

2.22

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.63	27.96	33	-5.04
				1	24	23.59	27.92	33	-5.08
				12	6	22.67	27.00	33	-6
				25	0	22.65	26.98	33	-6.02
	38000	2595	QPSK	1	0	23.58	27.91	33	-5.09
				1	24	23.58	27.91	33	-5.09
				12	6	22.74	27.07	33	-5.93
				25	0	22.70	27.03	33	-5.97
	38225	2617.5	QPSK	1	0	23.60	27.93	33	-5.07
				1	24	23.61	27.94	33	-5.06
				12	6	22.68	27.01	33	-5.99
				25	0	22.64	26.97	33	-6.03
	37775	2572.5	16QAM	1	0	22.80	27.13	33	-5.87
				1	24	22.77	27.10	33	-5.9
				12	6	21.72	26.05	33	-6.95
				25	0	21.69	26.02	33	-6.98
	38000	2595	16QAM	1	0	22.83	27.16	33	-5.84
				1	24	22.79	27.12	33	-5.88
				12	6	21.82	26.15	33	-6.85
				25	0	21.74	26.07	33	-6.93
	38225	2617.5	16QAM	1	0	22.80	27.13	33	-5.87
				1	24	22.83	27.16	33	-5.84
				12	6	21.72	26.05	33	-6.95
				25	0	21.66	25.99	33	-7.01

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LTE Band 38

Antenna gain (dBi)

2.11

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.60	27.93	33	-5.07
				1	49	23.44	27.77	33	-5.23
				25	12	22.64	26.97	33	-6.03
				50	0	22.60	26.93	33	-6.07
	38000	2595	QPSK	1	0	23.62	27.95	33	-5.05
				1	49	23.59	27.92	33	-5.08
				25	12	22.70	27.03	33	-5.97
				50	0	22.67	27.00	33	-6
	38200	2615	QPSK	1	0	23.58	27.91	33	-5.09
				1	49	23.59	27.92	33	-5.08
				25	12	22.68	27.01	33	-5.99
				50	0	22.61	26.94	33	-6.06
	37800	2575	16QAM	1	0	22.85	27.18	33	-5.82
				1	49	22.71	27.04	33	-5.96
				25	12	21.65	25.98	33	-7.02
				50	0	21.62	25.95	33	-7.05
	38000	2595	16QAM	1	0	22.88	27.21	33	-5.79
				1	49	22.81	27.14	33	-5.86
				25	12	21.78	26.11	33	-6.89
				50	0	21.73	26.06	33	-6.94
38200	2615	16QAM	1	0	22.73	27.06	33	-5.94	
			1	49	22.74	27.07	33	-5.93	
			25	12	21.75	26.08	33	-6.92	
			50	0	21.68	26.01	33	-6.99	

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LTE Band 38

Antenna gain (dBi)

2.11

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.68	28.01	33	-4.99
				1	74	23.45	27.78	33	-5.22
				36	19	22.66	26.99	33	-6.01
				75	0	22.60	26.93	33	-6.07
	38000	2595	QPSK	1	0	23.78	28.11	33	-4.89
				1	74	23.67	28.00	33	-5
				36	19	22.73	27.06	33	-5.94
				75	0	22.73	27.06	33	-5.94
	38175	2612.5	QPSK	1	0	23.67	28.00	33	-5
				1	74	23.60	27.93	33	-5.07
				36	19	22.65	26.98	33	-6.02
				75	0	22.59	26.92	33	-6.08
	37825	2577.5	16QAM	1	0	22.81	27.14	33	-5.86
				1	74	22.73	27.06	33	-5.94
				36	19	21.63	25.96	33	-7.04
				75	0	21.66	25.99	33	-7.01
	38000	2595	16QAM	1	0	22.98	27.31	33	-5.69
				1	74	22.80	27.13	33	-5.87
				36	19	21.72	26.05	33	-6.95
				75	0	21.75	26.08	33	-6.92
	38175	2612.5	16QAM	1	0	22.78	27.11	33	-5.89
				1	74	22.75	27.08	33	-5.92
				36	19	21.63	25.96	33	-7.04
				75	0	21.66	25.99	33	-7.01

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LTE Band 38

Antenna gain (dBi)

2.11

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.75	28.08	33	-4.92
				1	99	23.53	27.86	33	-5.14
				50	25	22.64	26.97	33	-6.03
				100	0	22.61	26.94	33	-6.06
	38000	2595	QPSK	1	0	23.78	28.11	33	-4.89
				1	99	23.63	27.96	33	-5.04
				50	25	22.75	27.08	33	-5.92
				100	0	22.74	27.07	33	-5.93
	38150	2610	QPSK	1	0	23.68	28.01	33	-4.99
				1	99	23.58	27.91	33	-5.09
				50	25	22.60	26.93	33	-6.07
				100	0	22.61	26.94	33	-6.06
	37850	2580	16QAM	1	0	22.89	27.22	33	-5.78
				1	99	22.71	27.04	33	-5.96
				50	25	21.70	26.03	33	-6.97
				100	0	21.68	26.01	33	-6.99
	38000	2595	16QAM	1	0	22.95	27.28	33	-5.72
				1	99	22.86	27.19	33	-5.81
				50	25	21.76	26.09	33	-6.91
				100	0	21.76	26.09	33	-6.91
38150	2610	16QAM	1	0	22.83	27.16	33	-5.84	
			1	99	22.78	27.11	33	-5.89	
			50	25	21.69	26.02	33	-6.98	
			100	0	21.67	26.00	33	-7	

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LTE Band 41

Duty Cycle Correction Factor

Antenna gain (dBi) 2.11

2.26

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	23.63	28.00	33	-5
				1	24	23.60	27.97	33	-5.03
				12	6	22.72	27.09	33	-5.91
				25	0	22.63	27.00	33	-6
	40620	2593	QPSK	1	0	23.68	28.05	33	-4.95
				1	24	23.66	28.03	33	-4.97
				12	6	22.77	27.14	33	-5.86
				25	0	22.74	27.11	33	-5.89
	41565	2687.5	QPSK	1	0	23.63	28.00	33	-5
				1	24	23.57	27.94	33	-5.06
				12	6	22.72	27.09	33	-5.91
				25	0	22.66	27.03	33	-5.97
	39675	2498.5	16QAM	1	0	22.89	27.26	33	-5.74
				1	24	22.84	27.21	33	-5.79
				12	6	21.73	26.10	33	-6.9
				25	0	21.70	26.07	33	-6.93
	40620	2593	16QAM	1	0	22.87	27.24	33	-5.76
				1	24	22.79	27.16	33	-5.84
				12	6	21.78	26.15	33	-6.85
				25	0	21.75	26.12	33	-6.88
	41565	2687.5	16QAM	1	0	22.81	27.18	33	-5.82
				1	24	22.79	27.16	33	-5.84
				12	6	21.72	26.09	33	-6.91
				25	0	21.67	26.04	33	-6.96

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	23.67	28.04	33	-4.96
				1	49	23.50	27.87	33	-5.13
				25	12	22.68	27.05	33	-5.95
				50	0	22.63	27.00	33	-6
	40620	2593	QPSK	1	0	23.65	28.02	33	-4.98
				1	49	23.56	27.93	33	-5.07
				25	12	22.67	27.04	33	-5.96
				50	0	22.67	27.04	33	-5.96
	41540	2685	QPSK	1	0	23.59	27.96	33	-5.04
				1	49	23.51	27.88	33	-5.12
				25	12	22.62	26.99	33	-6.01
				50	0	22.62	26.99	33	-6.01
	39700	2501	16QAM	1	0	22.89	27.26	33	-5.74
				1	49	22.76	27.13	33	-5.87
				25	12	21.73	26.10	33	-6.9
				50	0	21.70	26.07	33	-6.93
	40620	2593	16QAM	1	0	22.86	27.23	33	-5.77
				1	49	22.73	27.10	33	-5.9
				25	12	21.72	26.09	33	-6.91
				50	0	21.71	26.08	33	-6.92
41540	2685	16QAM	1	0	22.86	27.23	33	-5.77	
			1	49	22.78	27.15	33	-5.85	
			25	12	21.67	26.04	33	-6.96	
			50	0	21.66	26.03	33	-6.97	

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.74	28.11	33	-4.89
				1	74	23.51	27.88	33	-5.12
				36	19	22.64	27.01	33	-5.99
				75	0	22.58	26.95	33	-6.05
	40620	2593	QPSK	1	0	23.73	28.10	33	-4.9
				1	74	23.62	27.99	33	-5.01
				36	19	22.73	27.10	33	-5.9
				75	0	22.65	27.02	33	-5.98
	41515	2682.5	QPSK	1	0	23.71	28.08	33	-4.92
				1	74	23.57	27.94	33	-5.06
				36	19	22.63	27.00	33	-6
				75	0	22.62	26.99	33	-6.01
	39725	2503.5	16QAM	1	0	22.90	27.27	33	-5.73
				1	74	22.68	27.05	33	-5.95
				36	19	21.62	25.99	33	-7.01
				75	0	21.64	26.01	33	-6.99
	40620	2593	16QAM	1	0	22.88	27.25	33	-5.75
				1	74	22.80	27.17	33	-5.83
				36	19	21.69	26.06	33	-6.94
				75	0	21.74	26.11	33	-6.89
	41515	2682.5	16QAM	1	0	22.84	27.21	33	-5.79
				1	74	22.71	27.08	33	-5.92
				36	19	21.64	26.01	33	-6.99
				75	0	21.66	26.03	33	-6.97

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LTE Band 41

Antenna gain (dBi)

2.11

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz

Bandwidth	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.72	28.09	33	-4.91
				1	99	23.46	27.83	33	-5.17
				50	25	22.62	26.99	33	-6.01
				100	0	22.60	26.97	33	-6.03
	40620	2593	QPSK	1	0	23.79	28.16	33	-4.84
				1	99	23.64	28.01	33	-4.99
				50	25	22.74	27.11	33	-5.89
				100	0	22.74	27.11	33	-5.89
	41490	2680	QPSK	1	0	23.72	28.09	33	-4.91
				1	99	23.51	27.88	33	-5.12
				50	25	22.69	27.06	33	-5.94
				100	0	22.65	27.02	33	-5.98
	39750	2506	16QAM	1	0	22.90	27.27	33	-5.73
				1	99	22.67	27.04	33	-5.96
				50	25	21.63	26.00	33	-7
				100	0	21.65	26.02	33	-6.98
	40620	2593	16QAM	1	0	22.92	27.29	33	-5.71
				1	99	22.85	27.22	33	-5.78
				50	25	21.78	26.15	33	-6.85
				100	0	21.75	26.12	33	-6.88
41490	2680	16QAM	1	0	22.89	27.26	33	-5.74	
			1	99	22.71	27.08	33	-5.92	
			50	25	21.71	26.08	33	-6.92	
			100	0	21.66	26.03	33	-6.97	

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LTE Band 66

Antenna gain (dBi) 1.92

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz

Bandwidth	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	24.08	26.00	30	-4
				1	5	24.10	26.02	30	-3.98
				3	2	24.10	26.02	30	-3.98
				6	0	23.12	25.04	30	-4.96
	132322	1745	QPSK	1	0	24.03	25.95	30	-4.05
				1	5	24.01	25.93	30	-4.07
				3	2	24.09	26.01	30	-3.99
				6	0	23.01	24.93	30	-5.07
	132665	1779.3	QPSK	1	0	23.95	25.87	30	-4.13
				1	5	23.91	25.83	30	-4.17
				3	2	23.99	25.91	30	-4.09
				6	0	22.91	24.83	30	-5.17
	131979	1710.7	16QAM	1	0	23.49	25.41	30	-4.59
				1	5	23.48	25.40	30	-4.6
				3	2	23.04	24.96	30	-5.04
				6	0	22.08	24.00	30	-6
	132322	1745	16QAM	1	0	23.22	25.14	30	-4.86
				1	5	23.28	25.20	30	-4.8
				3	2	23.13	25.05	30	-4.95
				6	0	22.13	24.05	30	-5.95
	132665	1779.3	16QAM	1	0	23.29	25.21	30	-4.79
				1	5	23.31	25.23	30	-4.77
				3	2	22.97	24.89	30	-5.11
				6	0	22.08	24.00	30	-6

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3	131987	1711.5	QPSK	1	0	24.17	26.09	30	-3.91
				1	14	24.07	25.99	30	-4.01
				8	4	23.17	25.09	30	-4.91
				15	0	23.15	25.07	30	-4.93
	132322	1745	QPSK	1	0	24.04	25.96	30	-4.04
				1	14	24.02	25.94	30	-4.06
				8	4	23.15	25.07	30	-4.93
				15	0	23.10	25.02	30	-4.98
	132657	1778.5	QPSK	1	0	24.07	25.99	30	-4.01
				1	14	23.95	25.87	30	-4.13
				8	4	23.06	24.98	30	-5.02
				15	0	23.04	24.96	30	-5.04
	131987	1711.5	16QAM	1	0	23.29	25.21	30	-4.79
				1	14	23.26	25.18	30	-4.82
				8	4	22.29	24.21	30	-5.79
				15	0	22.23	24.15	30	-5.85
	132322	1745	16QAM	1	0	23.17	25.09	30	-4.91
				1	14	23.12	25.04	30	-4.96
				8	4	22.20	24.12	30	-5.88
				15	0	22.06	23.98	30	-6.02
	132657	1778.5	16QAM	1	0	23.17	25.09	30	-4.91
				1	14	23.19	25.11	30	-4.89
				8	4	22.12	24.04	30	-5.96
				15	0	22.02	23.94	30	-6.06

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Bandwidth	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	24.16	26.08	30	-3.92
				1	24	24.11	26.03	30	-3.97
				12	6	23.17	25.09	30	-4.91
				25	0	23.19	25.11	30	-4.89
	132322	1745	QPSK	1	0	24.16	26.08	30	-3.92
				1	24	24.11	26.03	30	-3.97
				12	6	23.12	25.04	30	-4.96
				25	0	23.10	25.02	30	-4.98
	132647	1777.5	QPSK	1	0	24.08	26.00	30	-4
				1	24	23.95	25.87	30	-4.13
				12	6	23.06	24.98	30	-5.02
				25	0	23.04	24.96	30	-5.04
	131997	1712.5	16QAM	1	0	23.37	25.29	30	-4.71
				1	24	23.44	25.36	30	-4.64
				12	6	22.20	24.12	30	-5.88
				25	0	22.17	24.09	30	-5.91
	132322	1745	16QAM	1	0	23.41	25.33	30	-4.67
				1	24	23.29	25.21	30	-4.79
				12	6	22.12	24.04	30	-5.96
				25	0	22.09	24.01	30	-5.99
	132647	1777.5	16QAM	1	0	23.43	25.35	30	-4.65
				1	24	23.32	25.24	30	-4.76
				12	6	22.06	23.98	30	-6.02
				25	0	22.06	23.98	30	-6.02

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10	132022	1715	QPSK	1	0	24.26	26.18	30	-3.82
				1	49	24.07	25.99	30	-4.01
				25	12	23.21	25.13	30	-4.87
				50	0	23.12	25.04	30	-4.96
	132322	1745	QPSK	1	0	24.15	26.07	30	-3.93
				1	49	23.95	25.87	30	-4.13
				25	12	23.16	25.08	30	-4.92
				50	0	23.14	25.06	30	-4.94
	132622	1775	QPSK	1	0	24.21	26.13	30	-3.87
				1	49	23.93	25.85	30	-4.15
				25	12	23.09	25.01	30	-4.99
				50	0	23.06	24.98	30	-5.02
	132022	1715	16QAM	1	0	23.36	25.28	30	-4.72
				1	49	23.35	25.27	30	-4.73
				25	12	22.29	24.21	30	-5.79
				50	0	22.18	24.10	30	-5.9
	132322	1745	16QAM	1	0	23.33	25.25	30	-4.75
				1	49	23.11	25.03	30	-4.97
				25	12	22.14	24.06	30	-5.94
				50	0	22.13	24.05	30	-5.95
	132622	1775	16QAM	1	0	23.30	25.22	30	-4.78
				1	49	23.15	25.07	30	-4.93
				25	12	22.14	24.06	30	-5.94
				50	0	22.08	24.00	30	-6

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15	132047	1717.5	QPSK	1	0	24.34	26.26	30	-3.74
				1	74	24.02	25.94	30	-4.06
				36	19	23.18	25.10	30	-4.9
				75	0	23.20	25.12	30	-4.88
	132322	1745	QPSK	1	0	24.33	26.25	30	-3.75
				1	74	24.09	26.01	30	-3.99
				36	19	23.18	25.10	30	-4.9
				75	0	23.16	25.08	30	-4.92
	132597	1772.5	QPSK	1	0	24.31	26.23	30	-3.77
				1	74	23.99	25.91	30	-4.09
				36	19	23.11	25.03	30	-4.97
				75	0	23.13	25.05	30	-4.95
	132047	1717.5	16QAM	1	0	23.33	25.25	30	-4.75
				1	74	23.37	25.29	30	-4.71
				36	19	22.27	24.19	30	-5.81
				75	0	22.22	24.14	30	-5.86
	132322	1745	16QAM	1	0	23.44	25.36	30	-4.64
				1	74	23.21	25.13	30	-4.87
				36	19	22.16	24.08	30	-5.92
				75	0	22.20	24.12	30	-5.88
	132597	1772.5	16QAM	1	0	23.43	25.35	30	-4.65
				1	74	23.38	25.30	30	-4.7
				36	19	22.13	24.05	30	-5.95
				75	0	22.13	24.05	30	-5.95

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20	132072	1720	QPSK	1	0	24.38	26.30	30	-3.7
				1	99	24.06	25.98	30	-4.02
				50	25	23.21	25.13	30	-4.87
				100	0	23.22	25.14	30	-4.86
	132322	1745	QPSK	1	0	24.26	26.18	30	-3.82
				1	99	23.90	25.82	30	-4.18
				50	25	23.14	25.06	30	-4.94
				100	0	23.15	25.07	30	-4.93
	132572	1770	QPSK	1	0	24.37	26.29	30	-3.71
				1	99	23.96	25.88	30	-4.12
				50	25	23.10	25.02	30	-4.98
				100	0	23.11	25.03	30	-4.97
	132072	1720	16QAM	1	0	23.48	25.40	30	-4.6
				1	99	23.18	25.10	30	-4.9
				50	25	22.21	24.13	30	-5.87
				100	0	22.21	24.13	30	-5.87
	132322	1745	16QAM	1	0	23.42	25.34	30	-4.66
				1	99	23.06	24.98	30	-5.02
				50	25	22.14	24.06	30	-5.94
				100	0	22.17	24.09	30	-5.91
132572	1770	16QAM	1	0	23.46	25.38	30	-4.62	
			1	99	23.41	25.33	30	-4.67	
			50	25	22.16	24.08	30	-5.92	
			100	0	22.13	24.05	30	-5.95	

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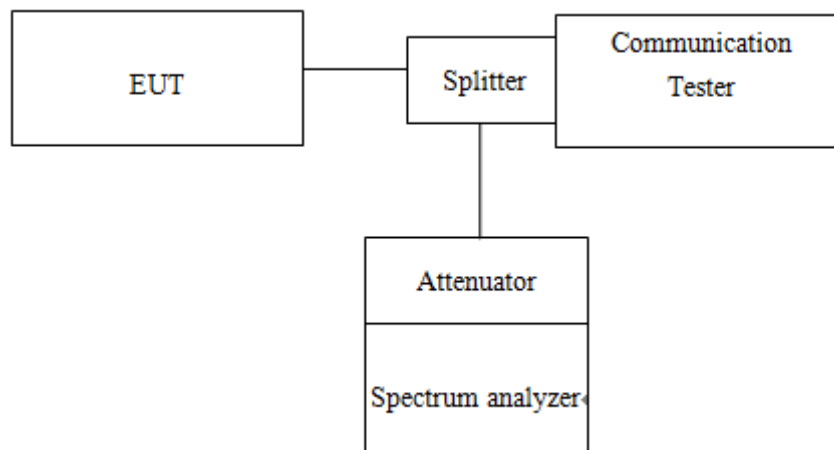
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8. OCCUPIED BANDWIDTH MEASUREMENT

8.1. 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.

8.2. Test Set-up



8.3. 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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8.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53130054	2017/09/04	2018/09/03
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1 A2	RF36	2017/12/26	2018/12/25

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8.5. 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	4.1144	4.1153	4.1278	4.684	4.672	4.677
1880.00	9400	4.1176	4.1249	4.1222	4.690	4.688	4.655
1907.60	9538	4.1183	4.1057	4.1163	4.695	4.659	4.658

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	4.1214	4.1342	4.1445	4.680	4.706	4.723
836.60	4183	4.1242	4.1243	4.1326	4.693	4.711	4.724
846.60	4233	4.1085	4.1154	4.1146	4.703	4.665	4.657

LTE BAND 2 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	18607	1.0952	1.0978	1.240	1.243
1880.0	18900	1.0953	1.0984	1.241	1.238
1909.3	19193	1.0947	1.0979	1.234	1.248

LTE BAND 2 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	18615	2.6989	2.7016	2.998	3.016
1880.0	18900	2.6988	2.7028	3.007	3.004
1908.5	19185	2.6984	2.7045	2.996	3.003

LTE BAND 2 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	18625	4.4963	4.5017	4.978	4.993
1880.0	18900	4.4964	4.5075	4.984	4.984
1907.5	19175	4.5031	4.4990	4.976	4.974

LTE BAND 2 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	18650	9.0024	8.9601	9.836	9.712
1880.0	18900	9.0160	8.9610	9.797	9.747
1905.0	19150	9.0039	8.9582	9.790	9.722

LTE BAND 2 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	18675	13.466	13.453	14.63	14.65
1880.0	18900	13.499	13.464	14.63	14.75
1902.5	19125	13.465	13.461	14.75	14.65

LTE BAND 2 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	18700	17.913	17.933	19.44	19.40
1880.0	18900	17.951	17.956	19.49	19.35
1900.0	19100	17.933	17.938	19.37	19.39

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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	1.0916	1.0941	1.237	1.238
1732.5	20175	1.0940	1.0945	1.233	1.239
1754.3	20393	1.0925	1.0972	1.242	1.246

LTE BAND 4 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	19965	2.6987	2.7029	2.996	3.004
1732.5	20175	2.7011	2.7019	2.986	2.999
1753.5	20385	2.6996	2.7019	3.002	2.994

LTE BAND 4 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	19957	4.5087	4.5050	4.971	4.938
1732.5	20175	4.5145	4.5074	4.961	4.961
1752.5	20375	4.5164	4.5036	4.953	4.975

LTE BAND 4 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	20000	9.0095	8.9718	9.840	9.747
1732.5	20175	9.0000	8.9695	9.817	9.805
1750.0	20350	8.9974	8.9746	9.811	9.734

LTE BAND 4 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	20025	13.478	13.491	14.64	14.67
1732.5	20175	13.499	13.458	14.77	14.74
1747.5	20325	13.492	13.482	14.70	14.65

LTE BAND 4 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	20050	17.971	18.008	19.51	19.50
1732.5	20175	17.931	17.941	19.47	19.59
1745.0	20300	17.951	17.995	19.54	19.61

LTE BAND 5 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	20407	1.0955	1.0981	1.234	1.238
836.5	20525	1.0934	1.0964	1.235	1.240
848.3	20643	1.0936	1.0968	1.237	1.238

LTE BAND 5 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	20415	2.7005	2.6980	2.989	3.006
836.5	20525	2.7007	2.7024	3.005	3.021
847.5	20635	2.7009	2.6990	2.999	2.998

LTE BAND 5 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	20425	4.5011	4.5000	5.005	4.962
836.5	20525	4.5016	4.4998	4.999	4.970
846.5	20625	4.4954	4.5002	4.967	4.984

LTE BAND 5 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	20450	9.0111	8.9817	9.827	9.782
836.5	20525	9.0064	8.9656	9.849	9.783
844.0	20600	8.9844	8.9469	9.815	9.724

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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	4.5048	4.5082	4.978	4.979
2535.0	21100	4.5017	4.5058	4.998	4.977
2567.5	21425	4.5027	4.5043	4.986	4.993

LTE BAND 7 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2505.0	20800	8.9935	8.9622	9.865	9.731
2535.0	21100	8.9836	8.9606	9.762	9.795
2565.0	21400	8.9744	8.9418	9.820	9.765

LTE BAND 7 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2507.5	20825	13.478	13.466	14.64	14.68
2535.0	21100	13.489	13.463	14.71	14.73
2562.5	21375	13.478	13.428	14.62	14.60

LTE BAND 7 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2510.0	20850	17.939	17.930	19.45	19.30
2535.0	21100	17.954	17.978	19.54	19.44
2560.0	21350	17.880	17.905	19.35	19.35

LTE BAND 12 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
699.7	23017	1.0939	1.0946	1.218	1.240
707.5	23095	1.0950	1.0974	1.239	1.233
715.3	23173	1.0958	1.0943	1.241	1.232

LTE BAND 12 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
700.5	23025	2.7027	2.7053	3.015	3.009
707.5	23095	2.6994	2.6983	2.996	3.001
714.5	23165	2.7019	2.6996	3.004	3.012

LTE BAND 12 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
701.5	23035	4.5114	4.5094	4.988	4.993
707.5	23095	4.5004	4.5006	4.986	4.961
713.5	23155	4.5085	4.5088	4.984	4.955

LTE BAND 12 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
704.0	23060	9.0290	8.9641	9.790	9.747
707.5	23095	8.9869	8.9258	9.777	9.714
711.0	23130	8.9711	8.9480	9.827	9.785

LTE BAND 13 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
779.5	23205	4.4974	4.5015	4.956	4.967
782.0	23230	4.5146	4.5112	5.019	4.952
784.5	23255	4.4976	4.4954	4.969	4.930

LTE BAND 13 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
782.0	23230	8.995	8.948	9.791	9.721

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LTE BAND 25 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1850.7	26047	1.0950	1.0954	1.235	1.245
1882.5	26365	1.0931	1.0970	1.240	1.238
1914.3	26683	1.0931	1.0970	1.234	1.238

LTE BAND 25 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1851.5	26055	2.6981	2.6978	3.000	3.008
1882.5	26365	2.6963	2.7000	2.976	3.010
1913.5	26675	2.7001	2.7046	2.990	2.997

LTE BAND 25 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1852.5	26065	4.4941	4.5069	4.971	4.971
1882.5	26365	4.4957	4.5016	4.991	4.962
1912.5	26665	4.5019	4.4988	4.983	4.972

LTE BAND 25 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1855.0	26090	9.0017	8.9721	9.850	9.815
1882.5	26365	8.9873	8.9664	9.813	9.763
1910.0	26640	9.0073	8.9566	9.804	9.756

LTE BAND 25 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1857.5	26115	13.453	13.452	14.67	14.60
1882.5	26365	13.459	13.472	14.64	14.74
1907.5	26615	13.475	13.454	14.66	14.65

LTE BAND 25 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1860.0	26140	17.8980	17.9450	19.44	19.50
1882.5	26365	17.9170	17.9610	19.50	19.50
1905.0	26590	17.9090	17.9210	19.44	19.39

LTE BAND 26 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
824.7	26797	1.0945	1.0960	1.234	1.239
836.5	26915	1.0945	1.0959	1.238	1.241
848.3	27033	1.0946	1.0976	1.234	1.241

LTE BAND 26 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
825.5	26805	2.6937	2.7045	2.981	3.006
836.5	26915	2.7006	2.7025	2.999	3.016
847.5	27025	2.6980	2.7045	3.010	3.001

LTE BAND 26 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
826.5	26815	4.5005	4.5000	4.960	4.973
836.5	26915	4.5007	4.5044	4.985	4.963
846.5	27015	4.4957	4.4978	4.994	4.977

LTE BAND 26 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
829.0	26840	8.9911	8.9715	9.807	9.771
836.5	26915	9.0024	8.9573	9.778	9.788
844.0	26990	8.9765	8.9453	9.795	9.722

LTE BAND 26 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
831.5	26865	13.459	13.436	14.67	14.63
836.5	26915	13.493	13.456	14.75	14.64
841.5	26965	13.458	13.456	14.69	14.70

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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	1.0945	1.0960	1.235	1.237
819.0	26740	1.0942	1.0958	1.236	1.238
823.3	26783	1.0953	1.0938	1.238	1.237

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	2.6997	2.7018	2.986	3.005
819.0	26740	2.6991	2.7053	3.004	3.002
822.5	26775	2.7032	2.7041	2.985	3.009

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	4.4926	4.4977	4.956	4.971
819.0	26740	4.4917	4.4993	4.978	4.959
821.5	26765	4.5091	4.5063	5.003	4.977

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	8.9892	8.9375	9.805	9.743

LTE BAND 30 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2307.5	27685	4.5014	4.4983	4.995	4.947
2310.0	27710	4.4991	4.4992	4.985	4.963
2312.5	27735	4.4907	4.5022	4.987	4.983

LTE BAND 30 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	16QAM	QPSK
2310.0	27710	9.0141	8.9575	9.838	9.796

LTE BAND 38 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2572.5	37775	4.5053	4.5050	4.997	4.966
2595.0	38000	4.4980	4.5064	4.979	4.975
2617.5	38225	4.5013	4.5006	4.927	4.982

LTE BAND 38 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2575.0	37800	8.9704	8.9631	9.752	9.706
2595.0	38000	8.9791	8.9522	9.726	9.728
2615.0	38200	8.9769	8.9563	9.764	9.760

LTE BAND 38 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2577.5	37825	13.441	13.454	14.62	14.75
2595.0	38000	13.467	13.475	14.54	14.76
2612.5	38175	13.448	13.455	14.61	14.69

LTE BAND 38 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2580.0	37850	17.921	17.930	19.42	19.52
2595.0	38000	17.930	17.883	19.37	19.42
2610.0	38150	17.919	17.898	19.38	19.42

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LTE BAND 41 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2498.5	39675	4.4984	4.4970	4.948	4.951
2593.0	40620	4.5045	4.5045	4.974	4.980
2687.5	41565	4.4976	4.4997	4.968	4.918

LTE BAND 41 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2501.0	39700	8.9579	8.9533	9.725	9.763
2593.0	40620	8.9792	8.9530	9.784	9.673
2685.0	41540	8.9751	8.9703	9.743	9.744

LTE BAND 41 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2503.5	39725	13.479	13.467	14.52	14.71
2593.0	40620	13.457	13.466	14.54	14.71
2682.5	41515	13.443	13.469	14.56	14.62

LTE BAND 41 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
2506.0	39750	17.906	17.912	19.32	19.34
2593.0	40620	17.918	17.893	19.36	19.36
2680.0	41490	17.919	17.944	19.30	19.40

LTE BAND 66 Channel bandwidth: 1.4MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1710.7	131979	1.0958	1.0965	1.237	1.240
1745.0	132322	1.0920	1.0975	1.235	1.234
1779.3	132665	1.0946	1.0942	1.236	1.240

LTE BAND 66 Channel bandwidth: 3MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1711.5	131987	2.6993	2.7054	2.999	3.010
1745.0	132322	2.7018	2.7011	2.987	3.006
1778.5	132657	2.6991	2.7021	2.975	3.008

LTE BAND 66 Channel bandwidth: 5MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1712.5	131997	4.5018	4.5003	4.977	4.970
1745.0	132322	4.4991	4.5024	4.963	4.967
1777.5	132647	4.5055	4.5050	4.976	5.005

LTE BAND 66 Channel bandwidth: 10MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1715.0	132022	8.9938	8.9616	9.843	9.760
1745.0	132322	9.0091	8.9613	9.818	9.777
1775.0	132622	9.0216	8.9701	9.786	9.749

LTE BAND 66 Channel bandwidth: 15MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1717.5	132047	13.4740	13.4650	14.67	14.65
1745.0	132322	13.4490	13.4680	14.69	14.71
1772.5	132597	13.4890	13.4750	14.69	14.76

LTE BAND 66 Channel bandwidth: 20MHz					
Freq. (MHz)	CH	99% BW (MHz)		26 dB BW (MHz)	
		QPSK	16QAM	QPSK	16QAM
1720.0	132072	17.9810	18.0000	19.49	19.56
1745.0	132322	17.9440	17.9250	19.50	19.42
1770.0	132572	17.9560	17.9560	19.48	19.60

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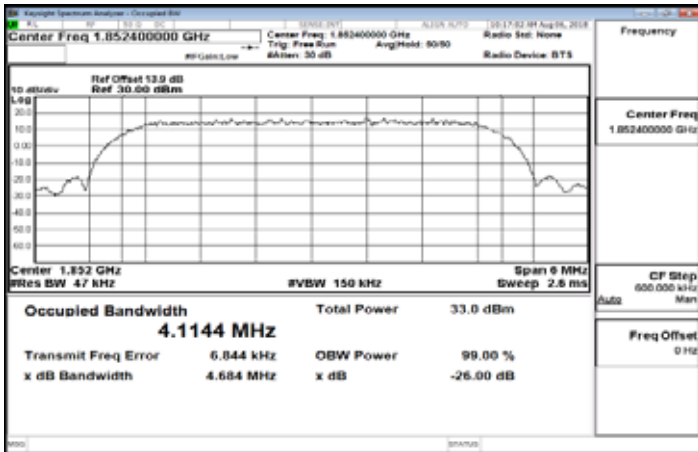
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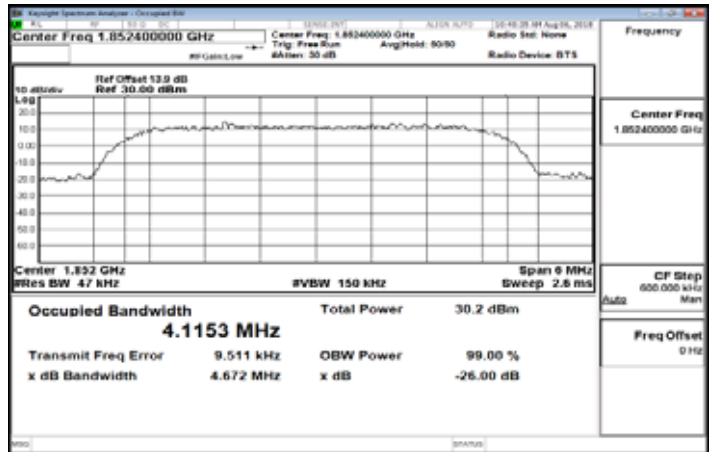
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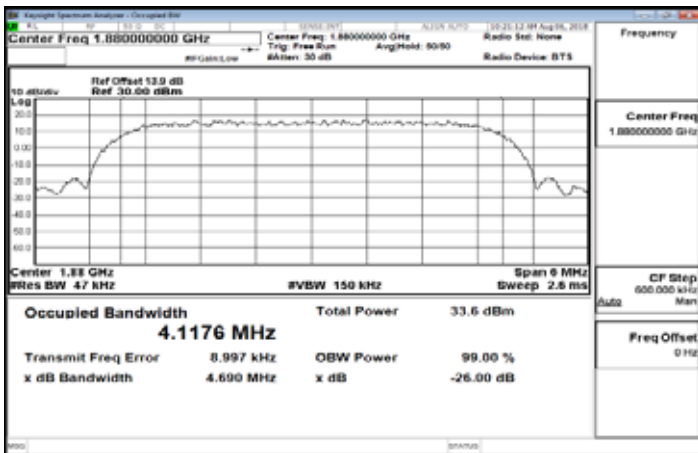
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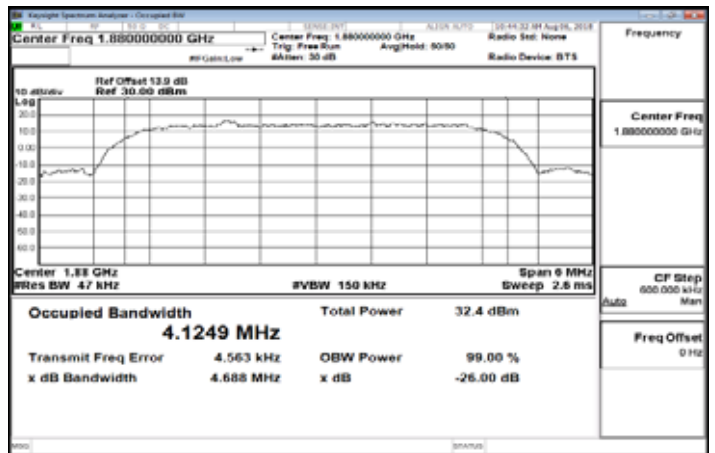
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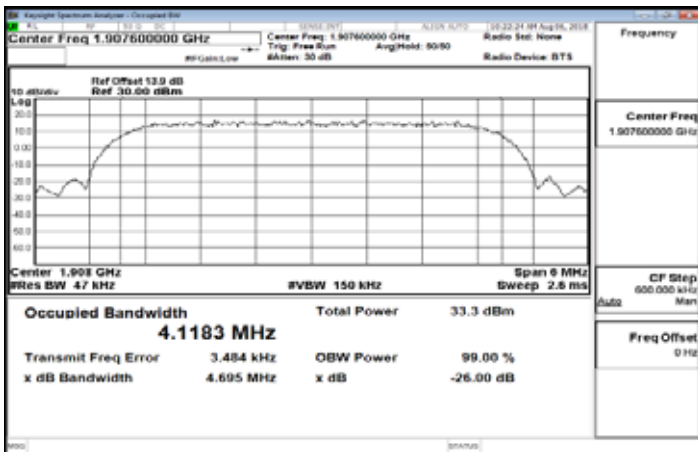
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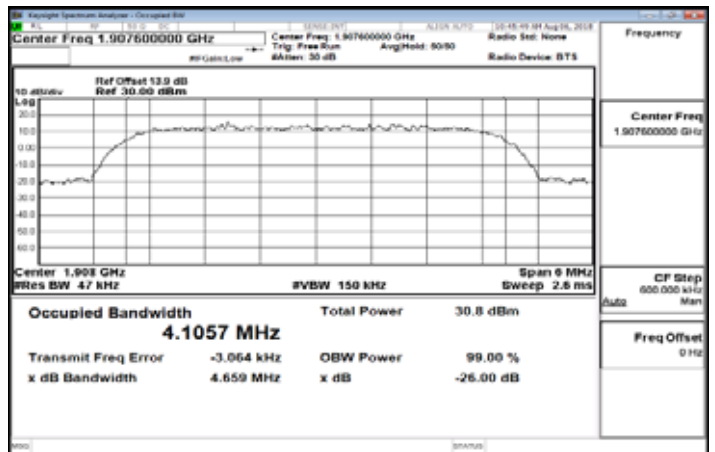
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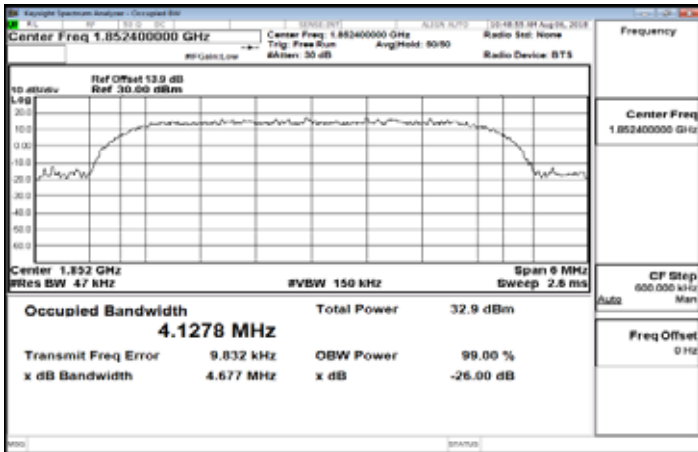
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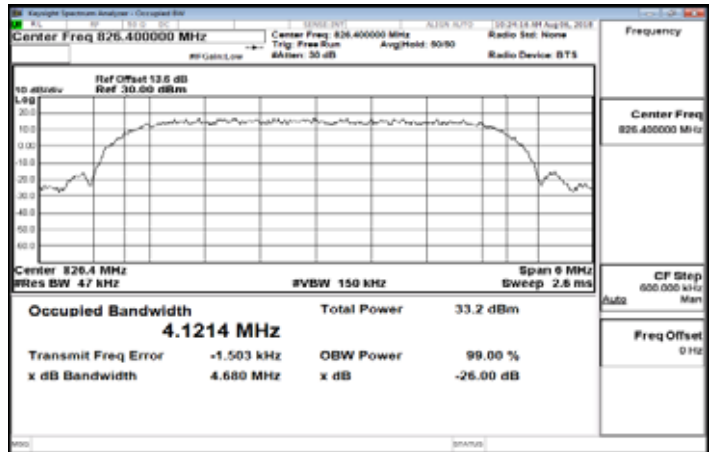
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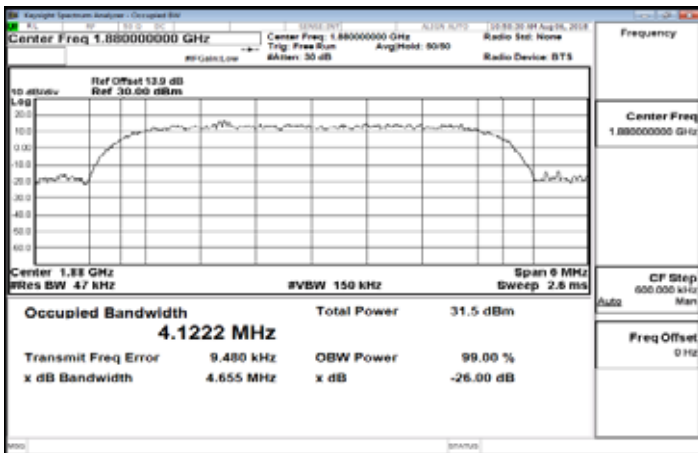
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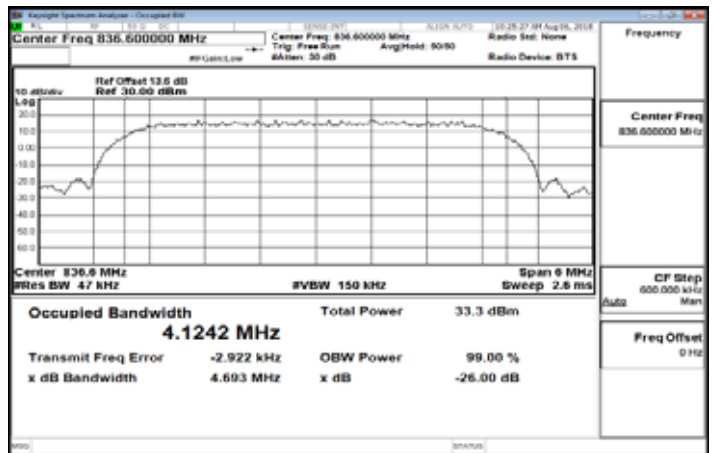
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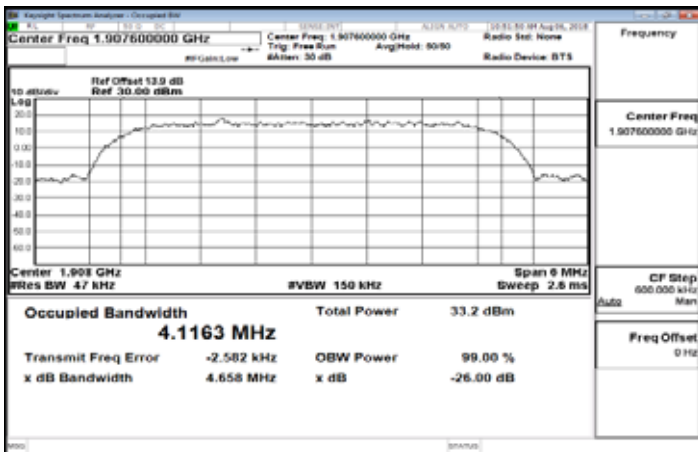
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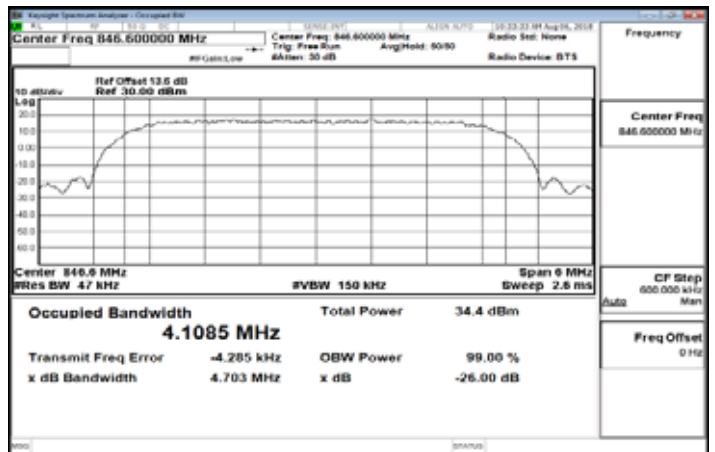
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WCDMA_B5_HighCH4233-846.6



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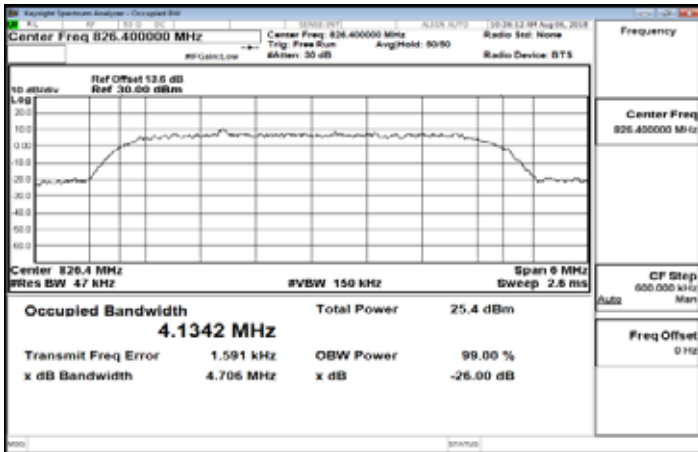
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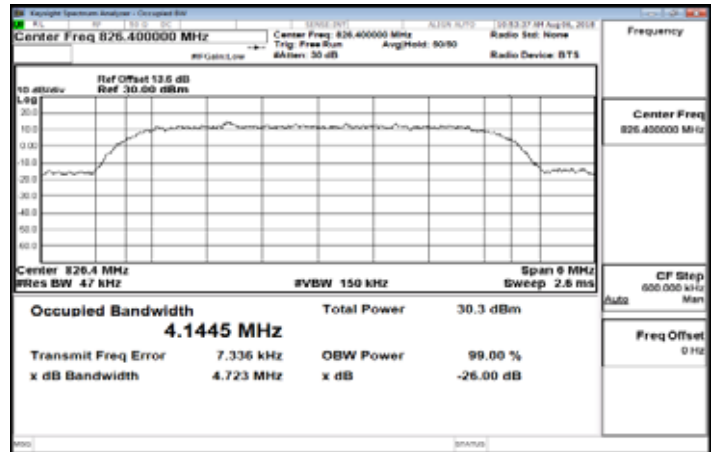
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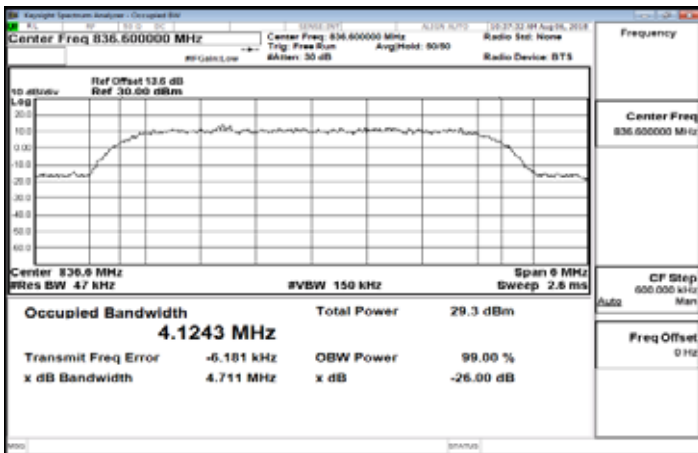
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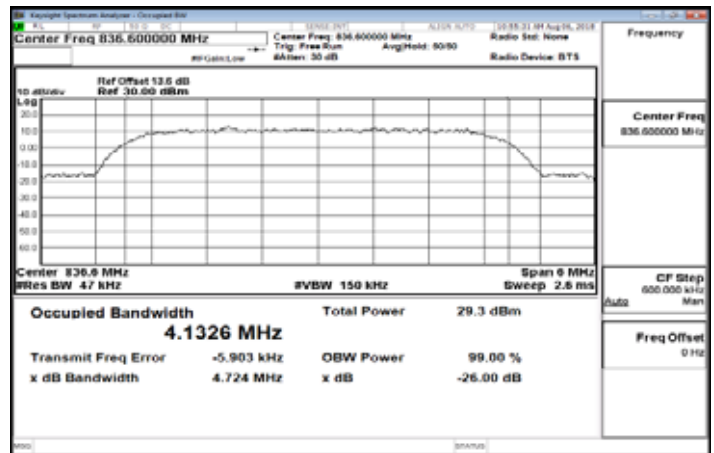
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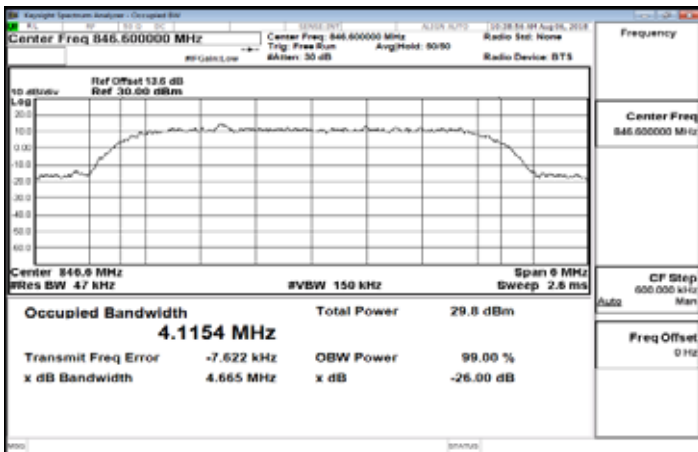
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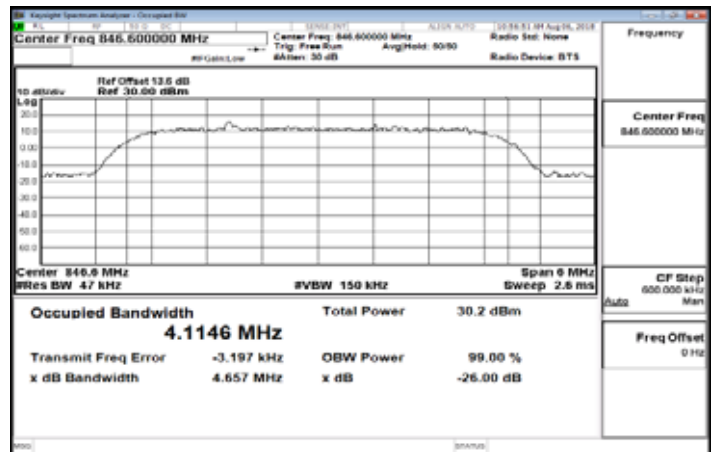
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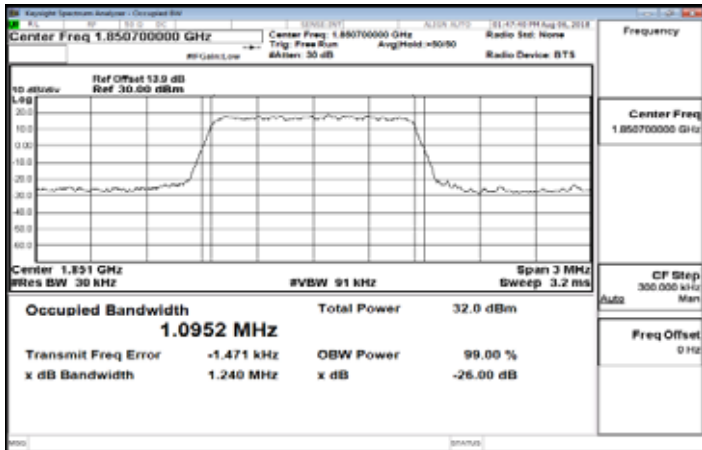


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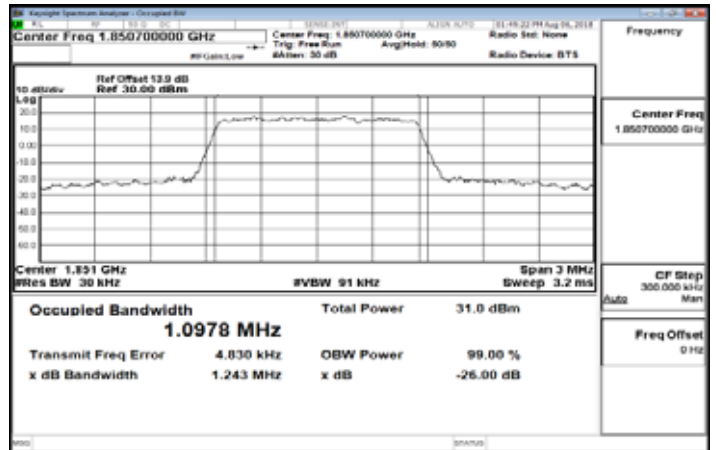
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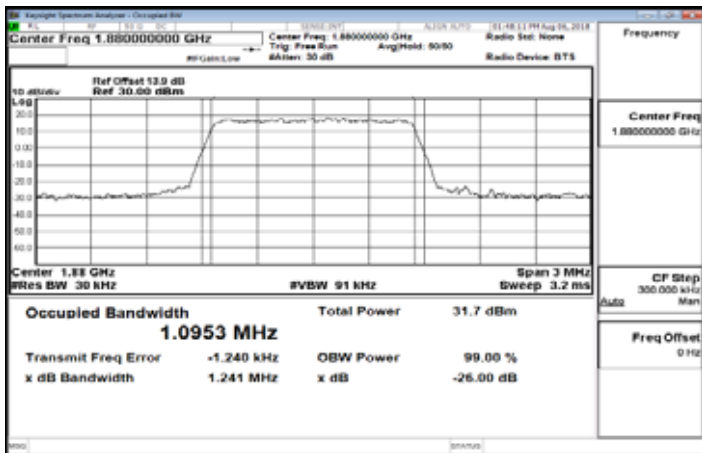
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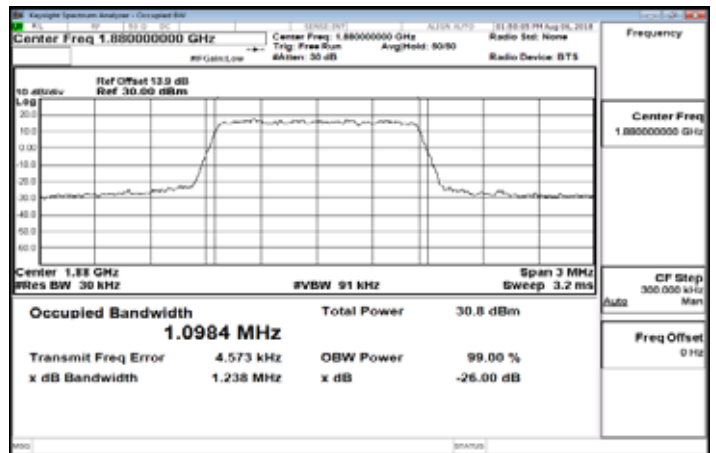
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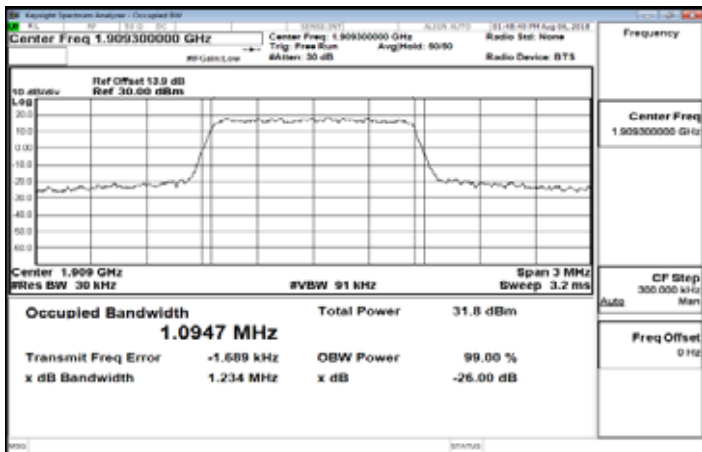
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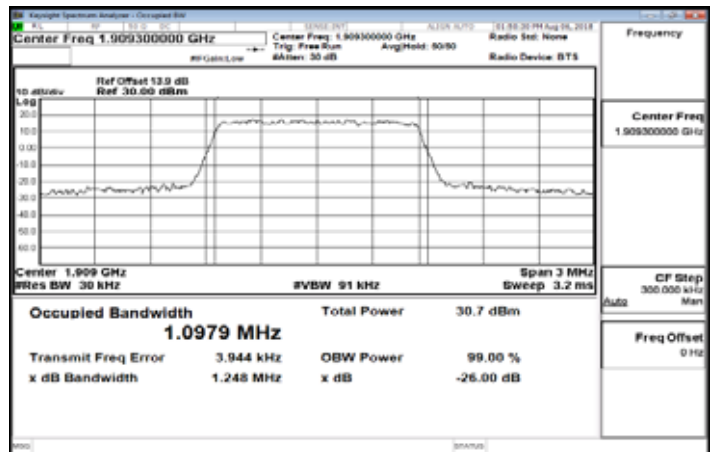
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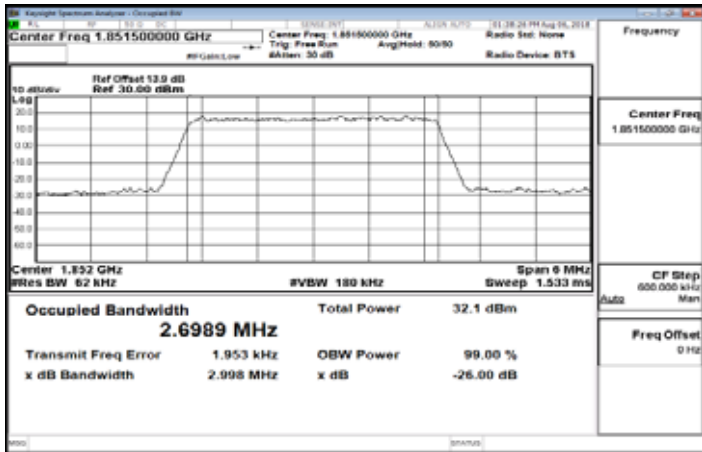


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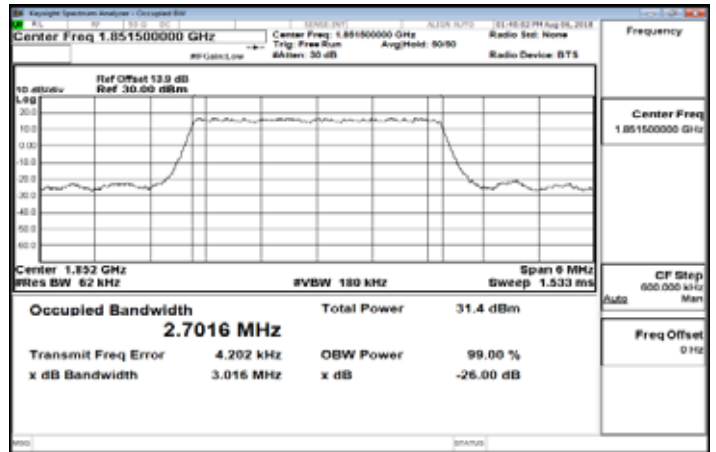
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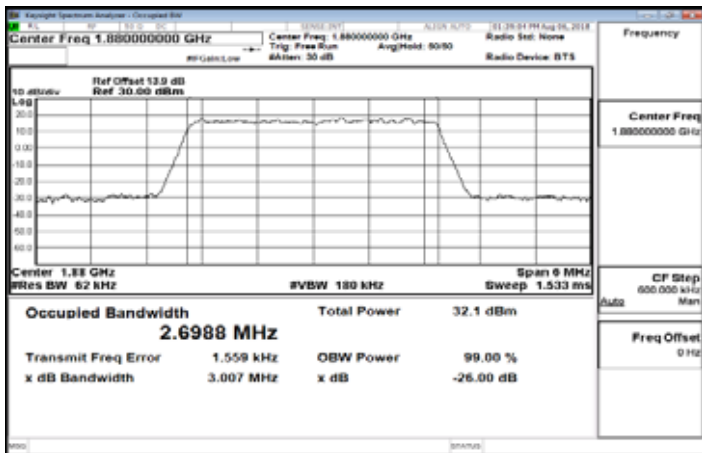
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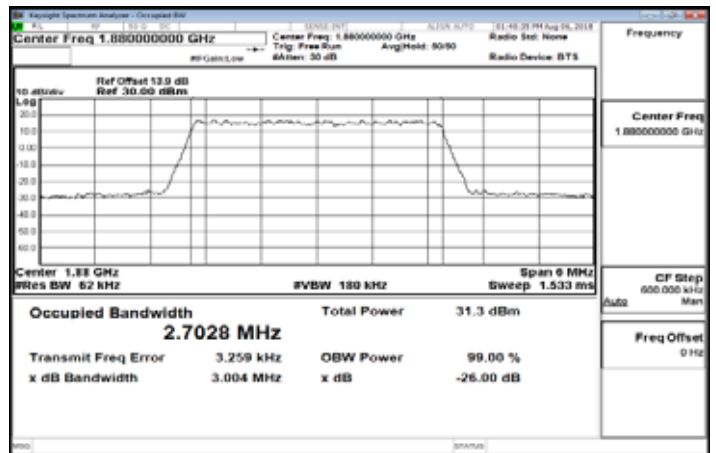
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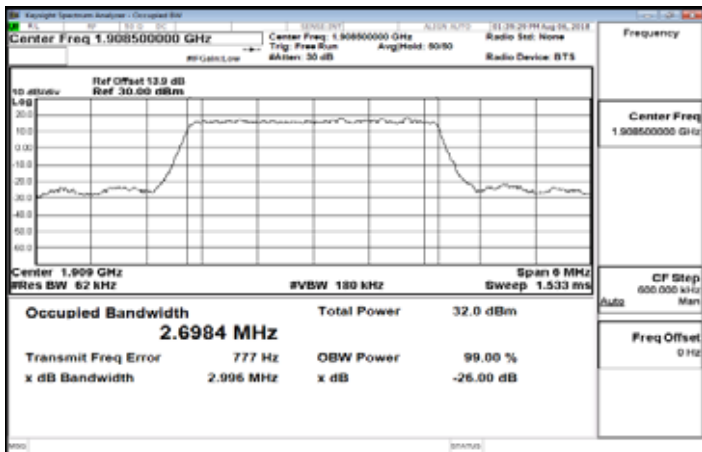
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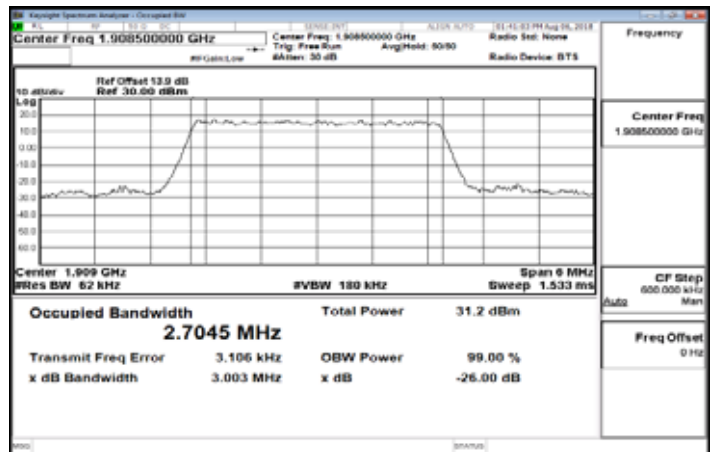
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Band2_3MHz_16QAM_15_0_HighCH19185-1908.5



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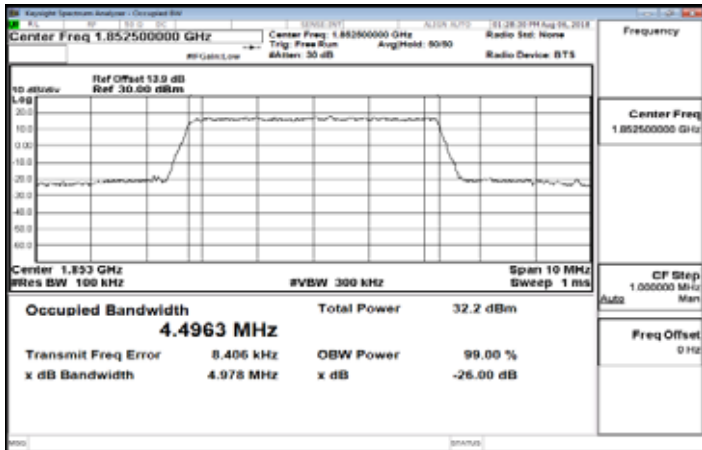
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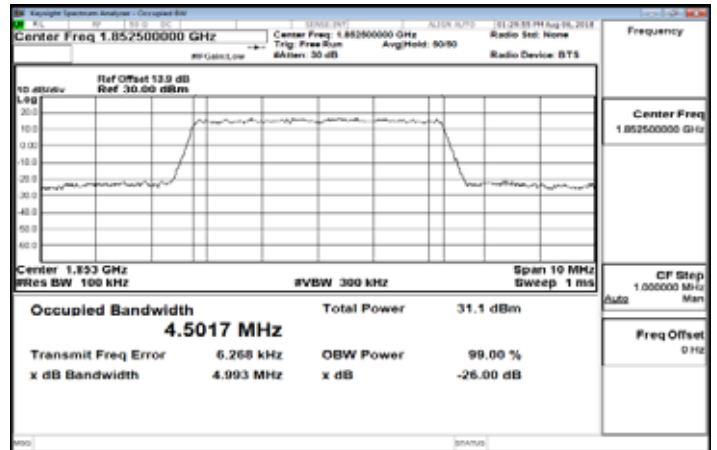
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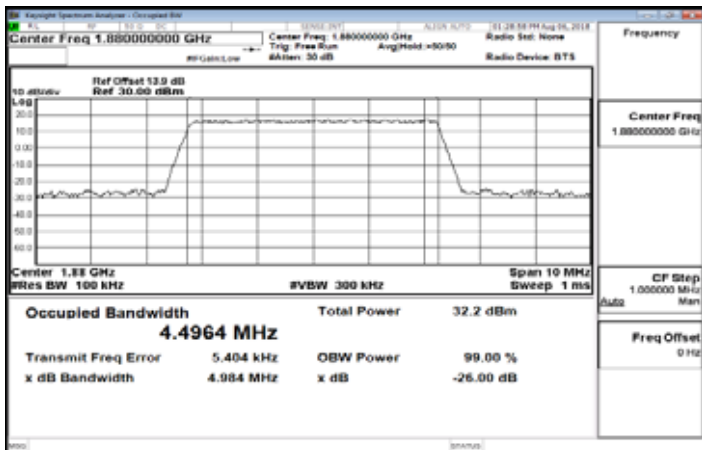
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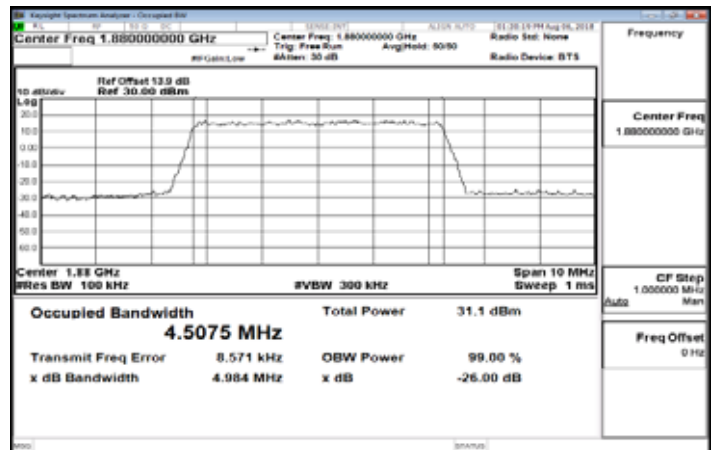
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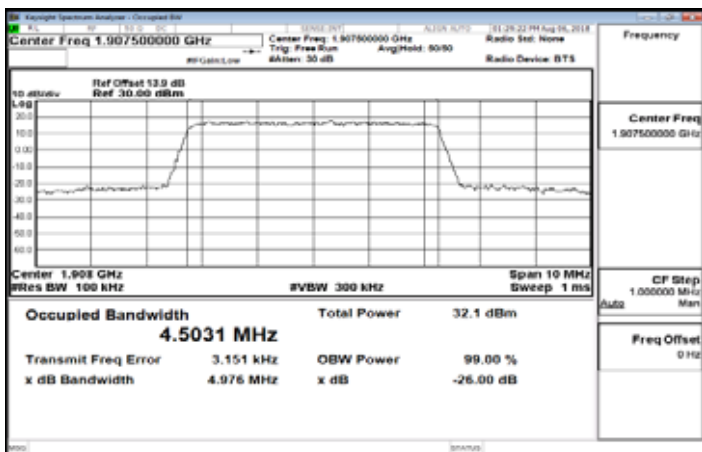
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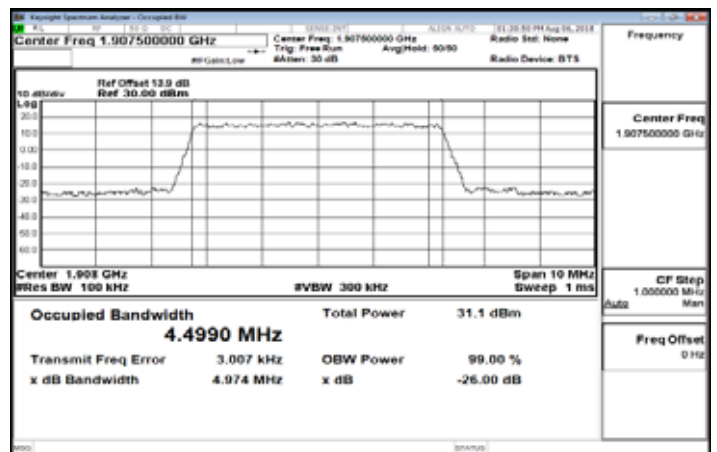
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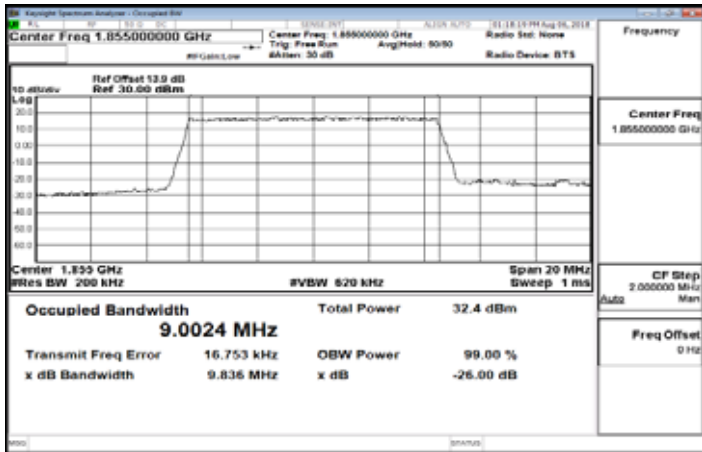


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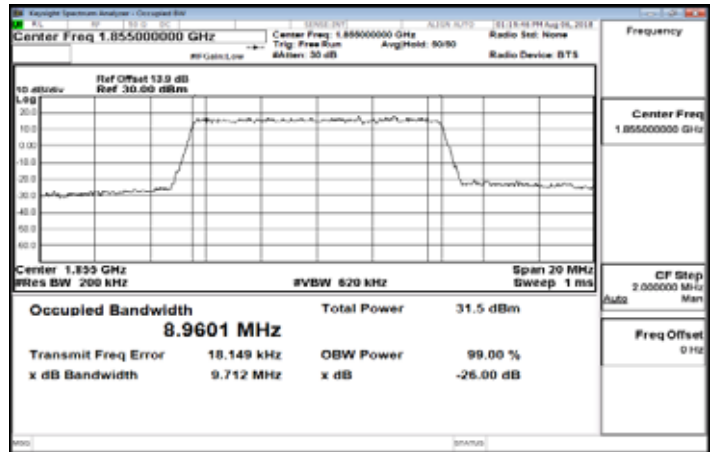
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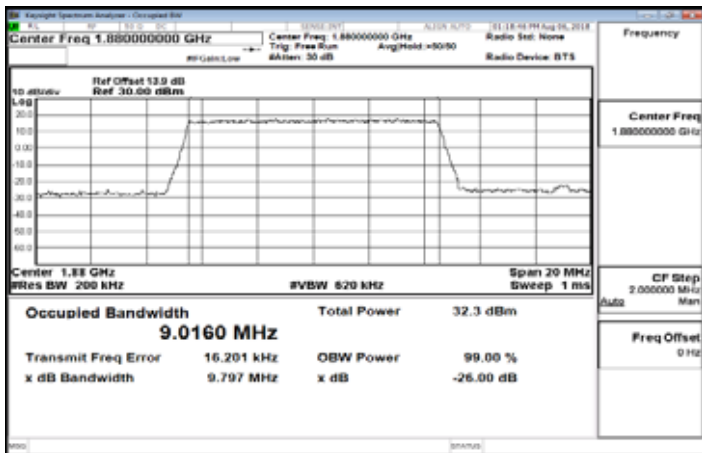
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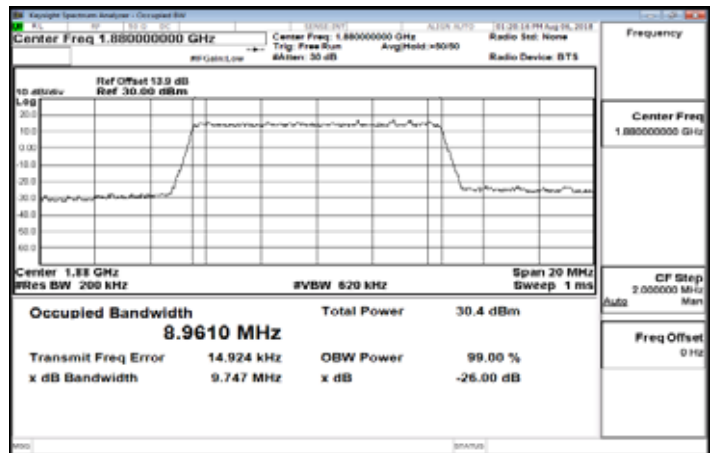
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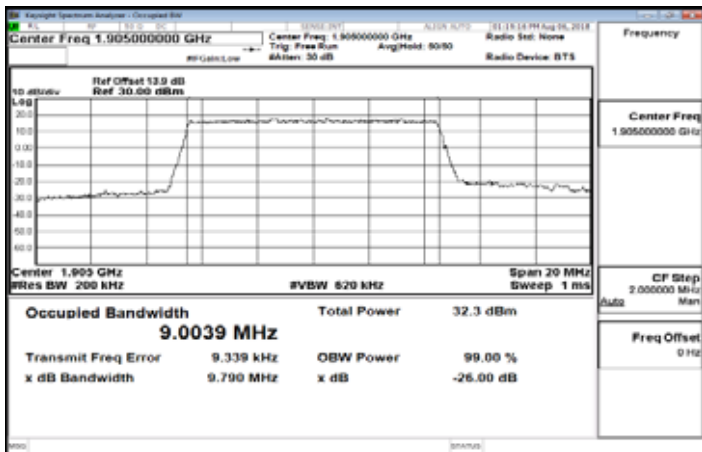
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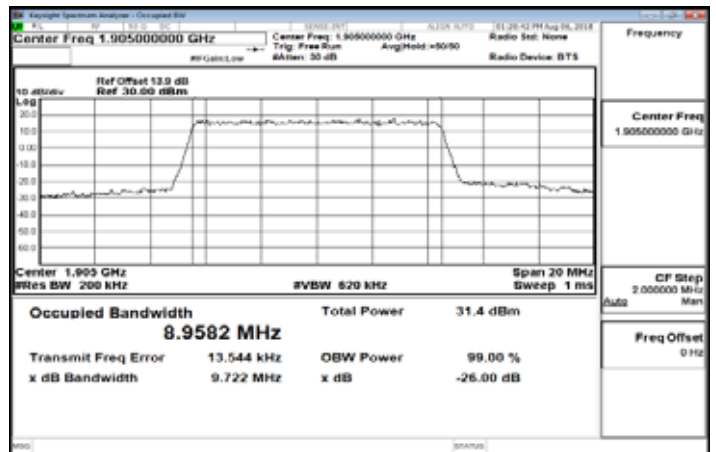
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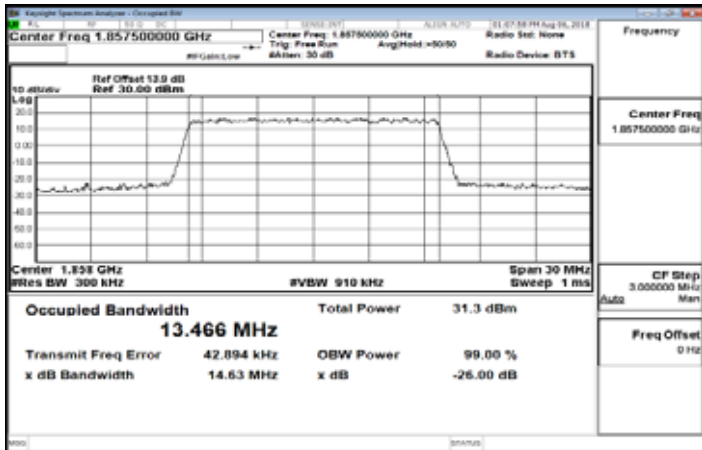


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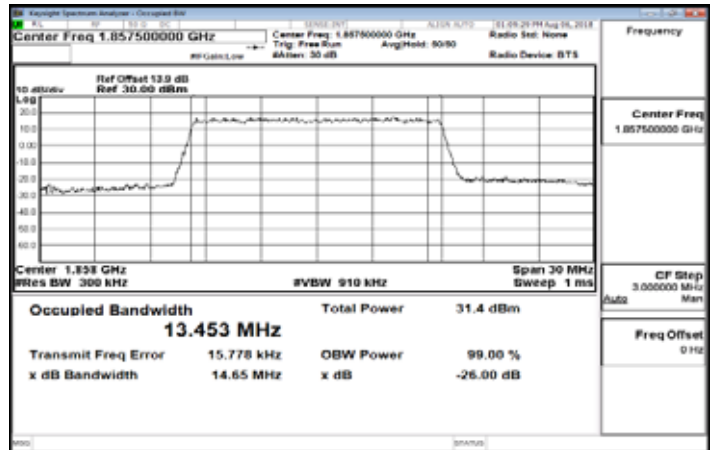
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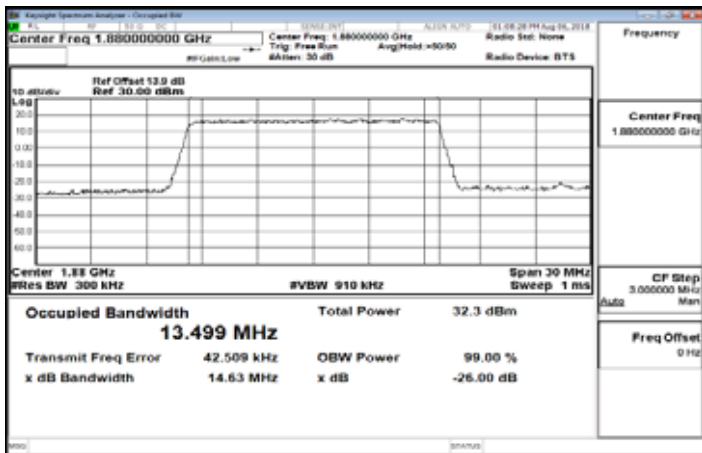
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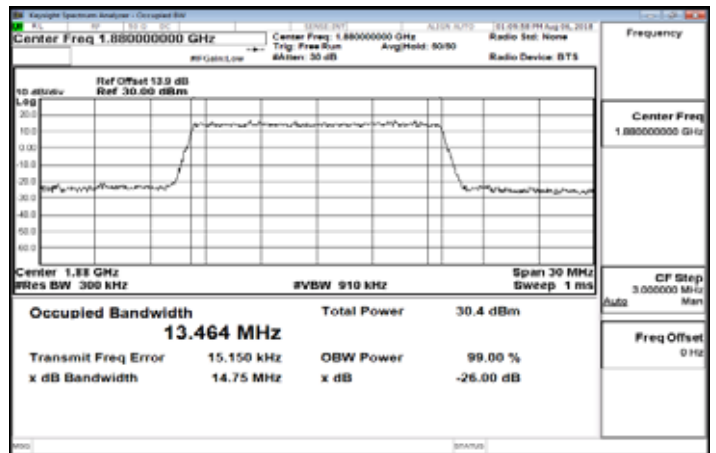
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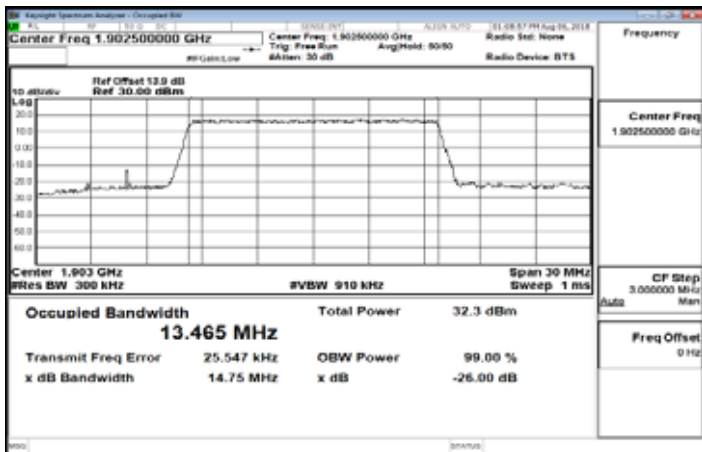
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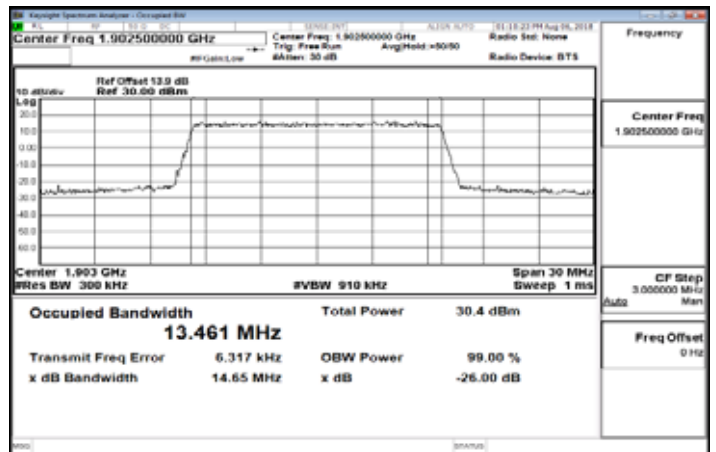
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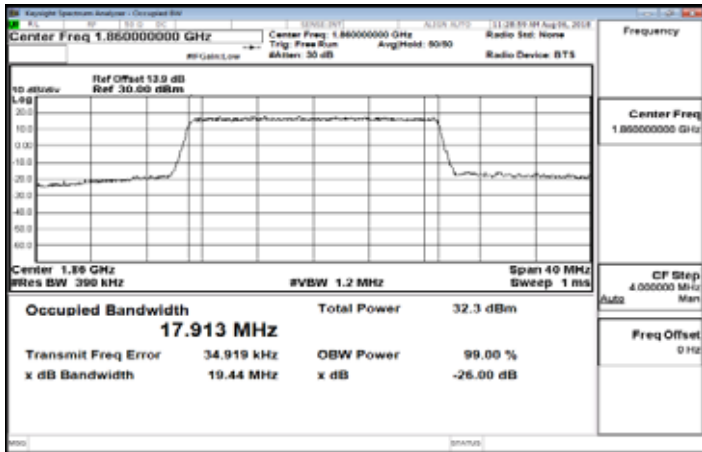


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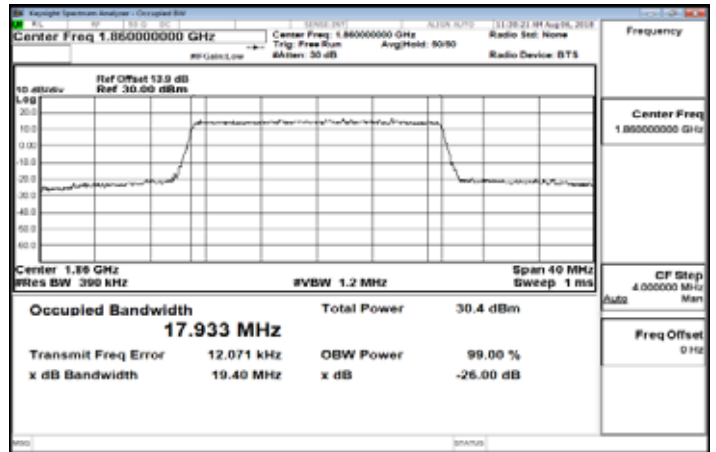
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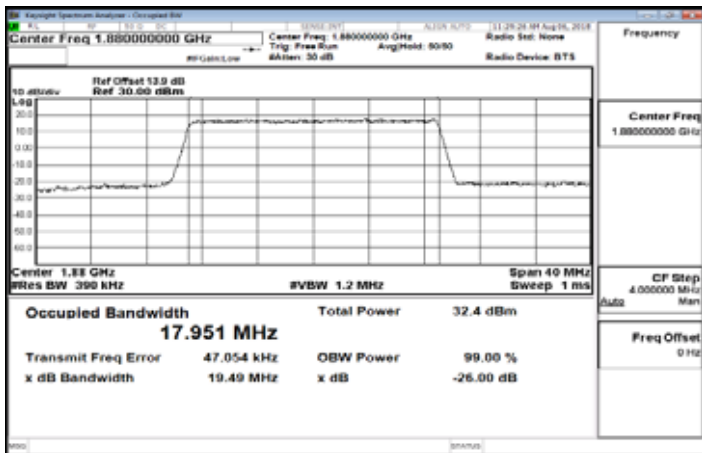
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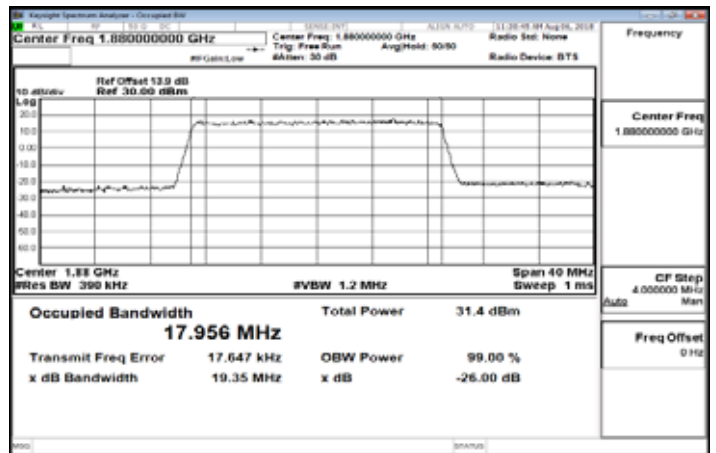
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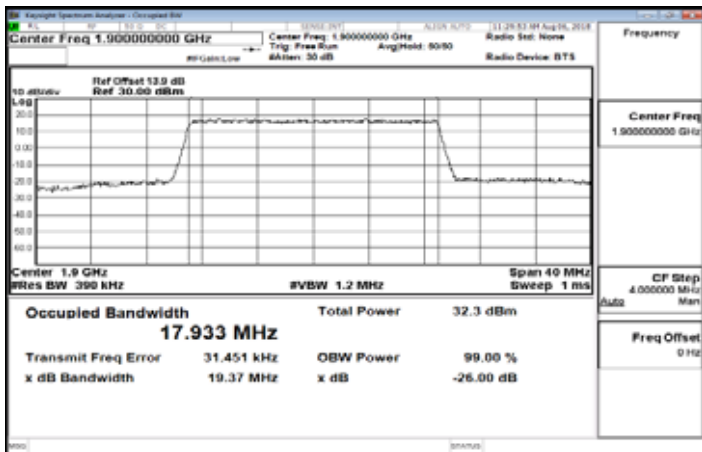
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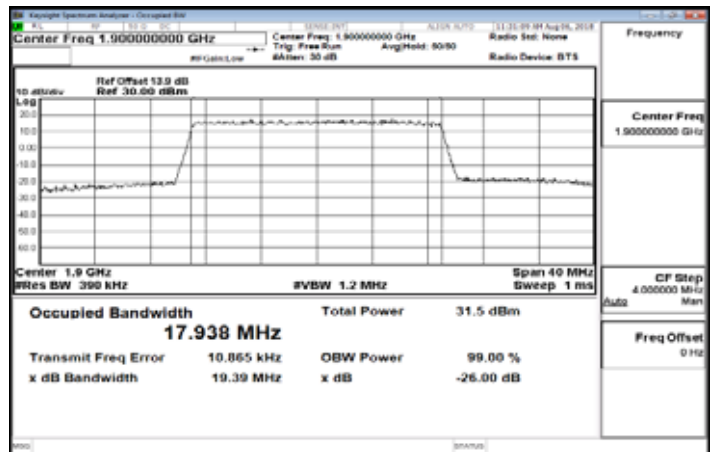
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Band2_20MHz_QPSK_100_0_HighCH19100-1900



Band2_20MHz_16QAM_100_0_HighCH19100-1900



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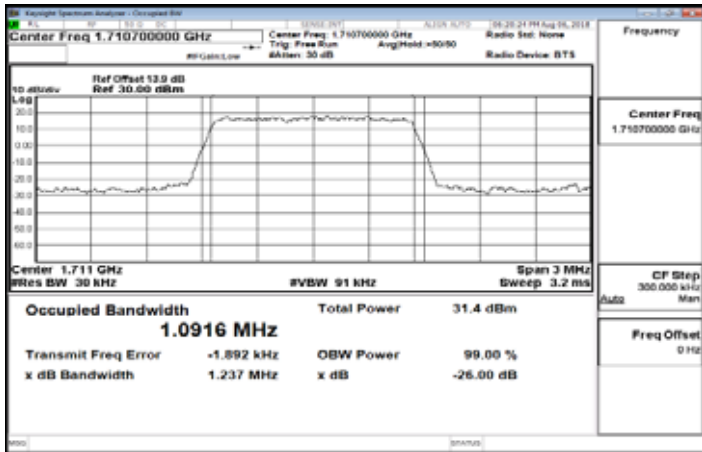
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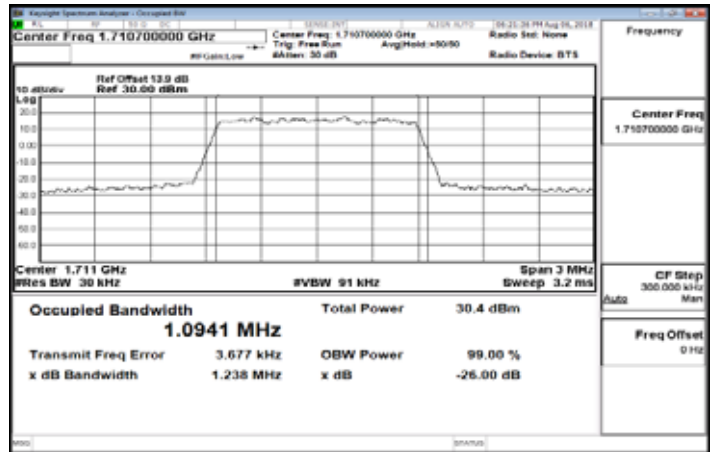
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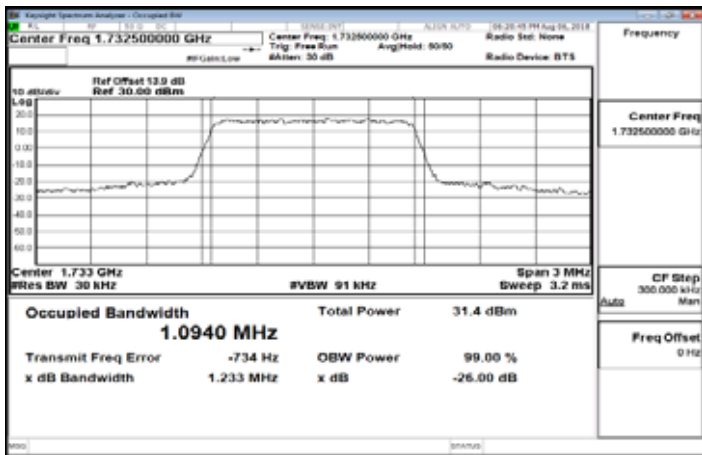
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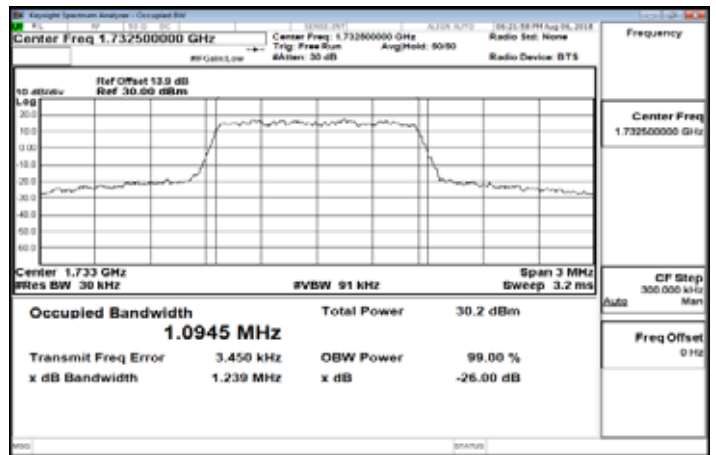
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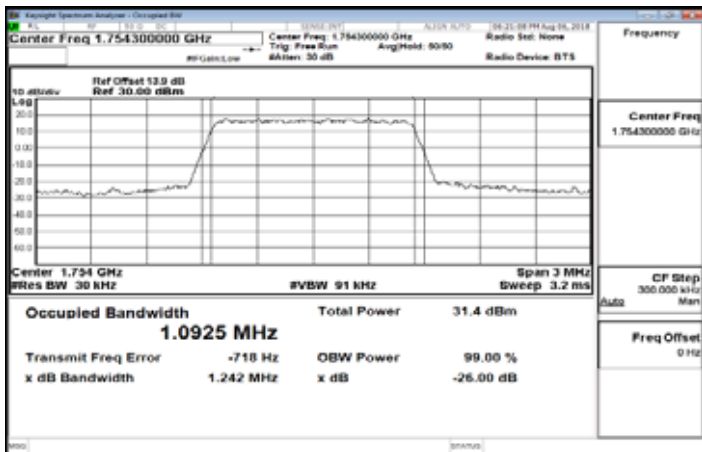
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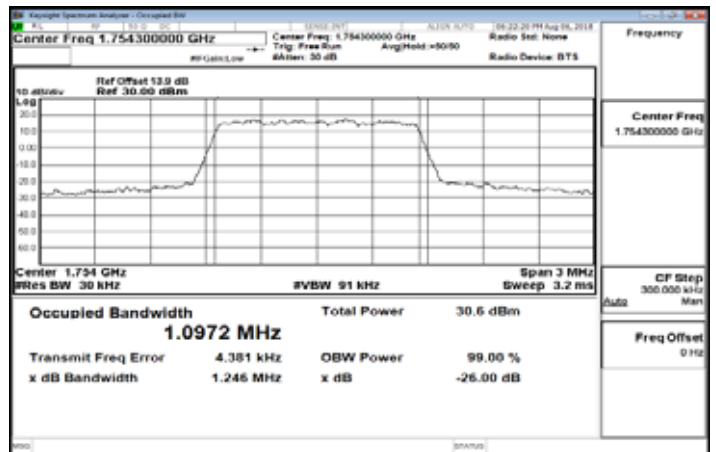
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Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3



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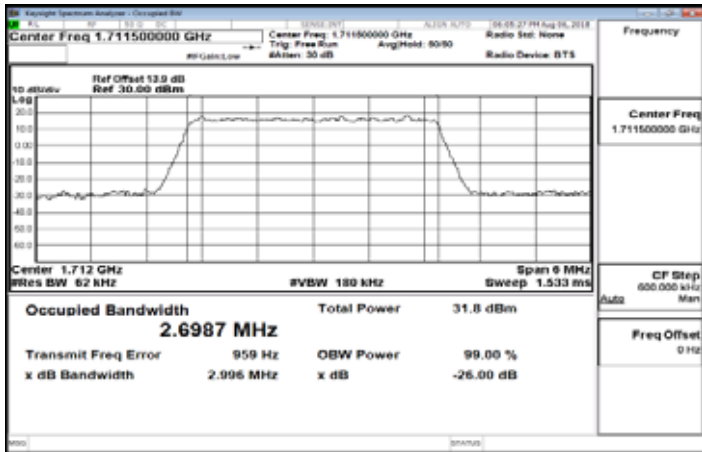
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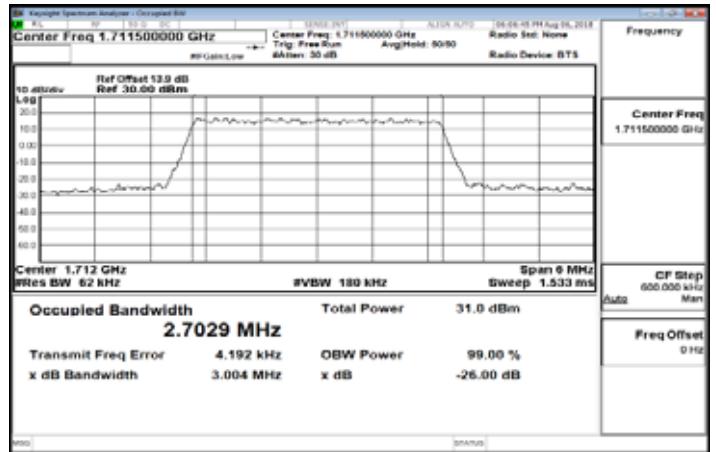
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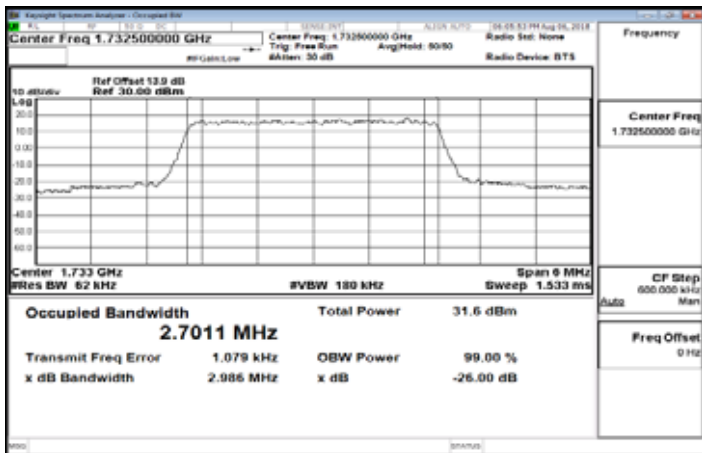
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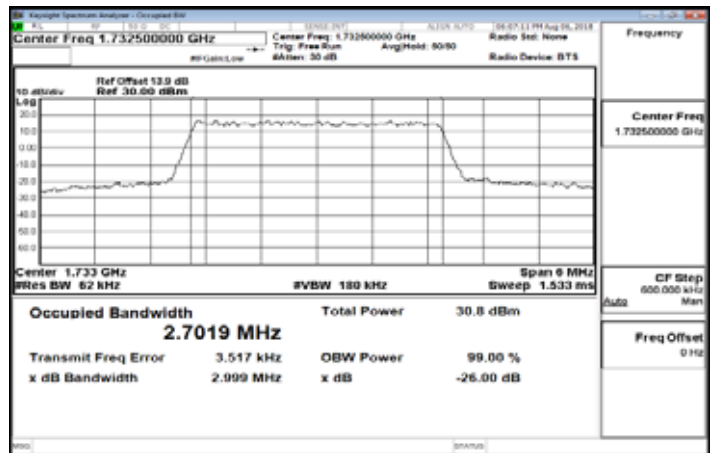
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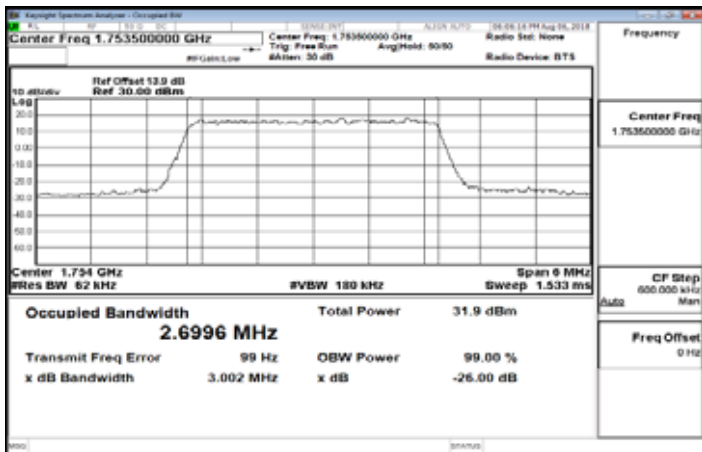
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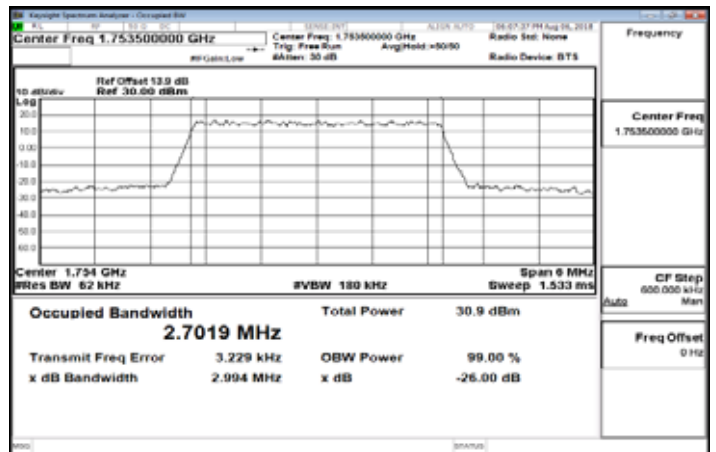
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Band4_3MHz_16QAM_15_0_HighCH20385-1753.5



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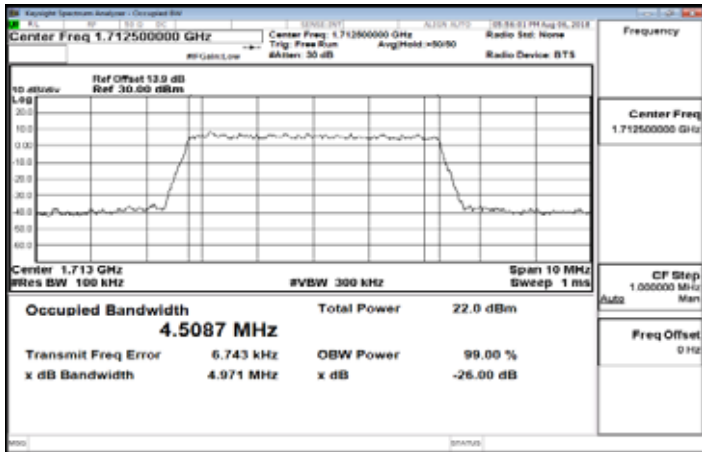
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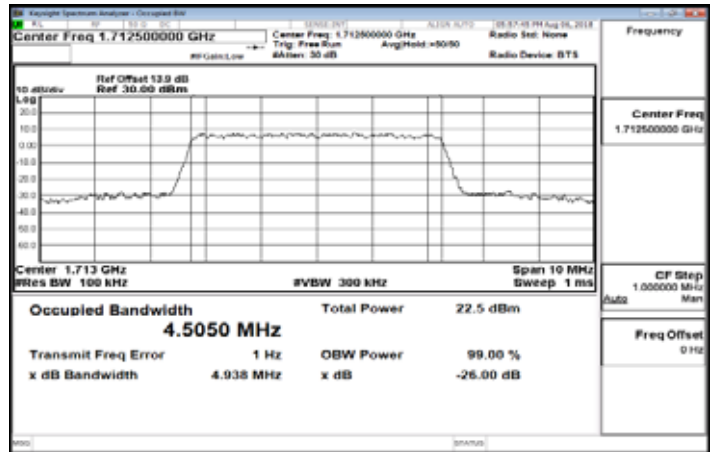
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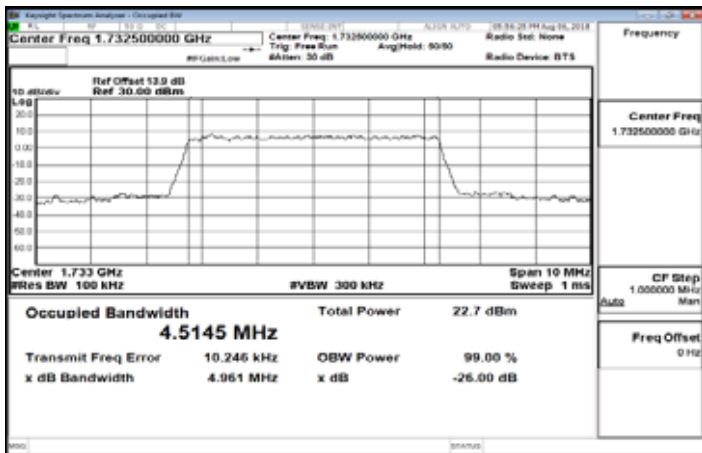
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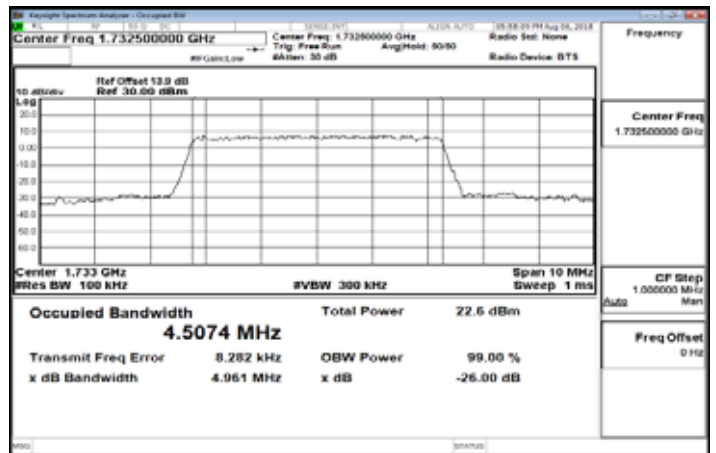
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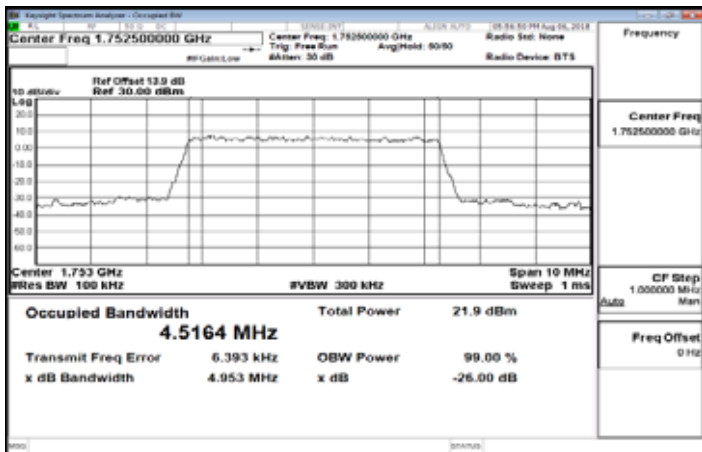
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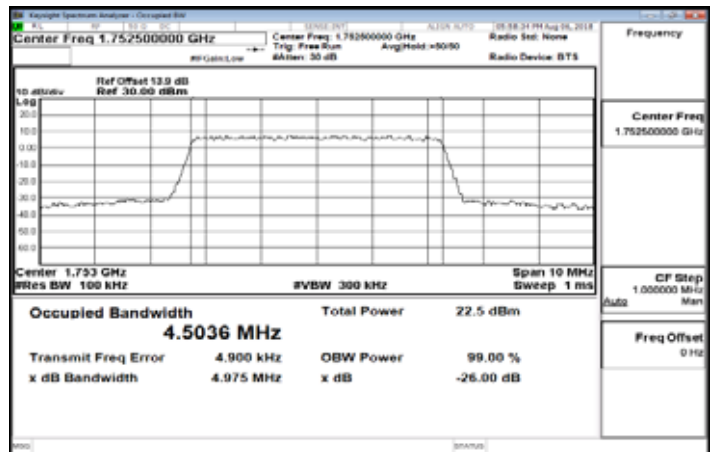
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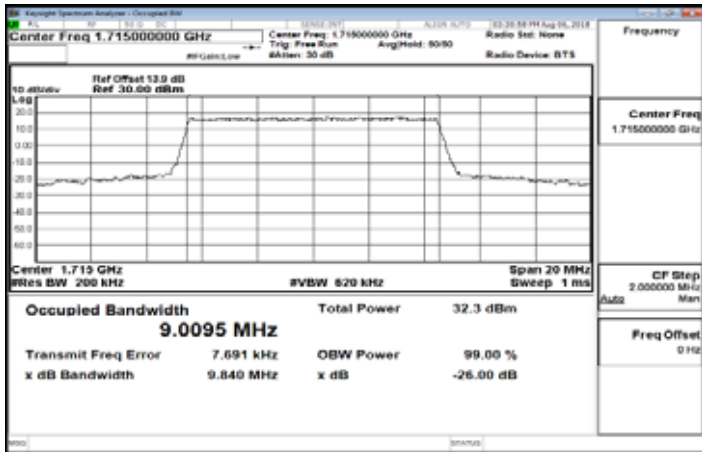


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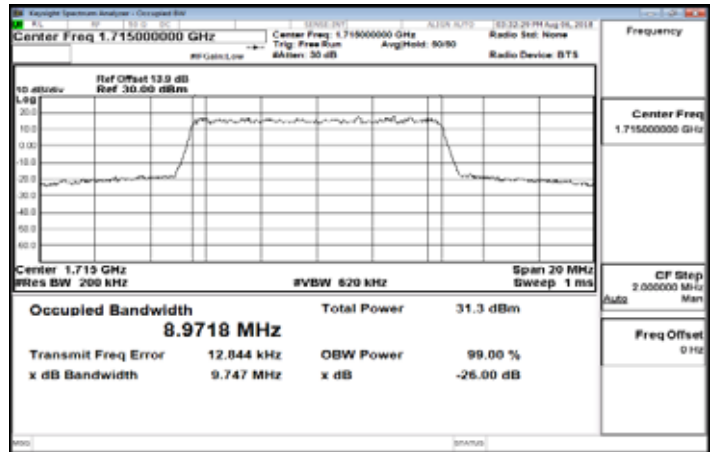
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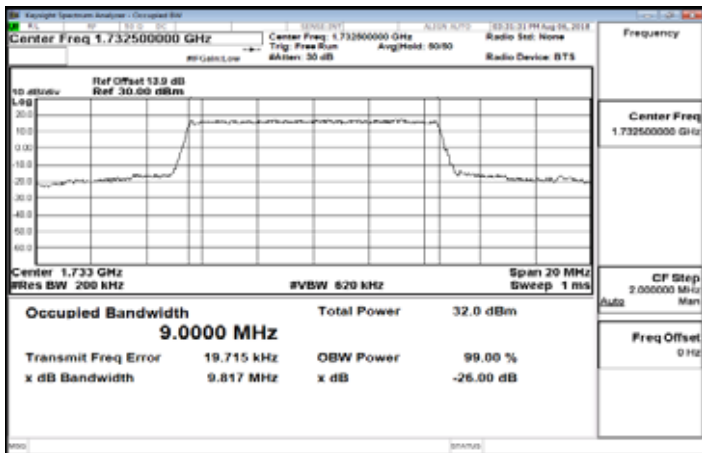
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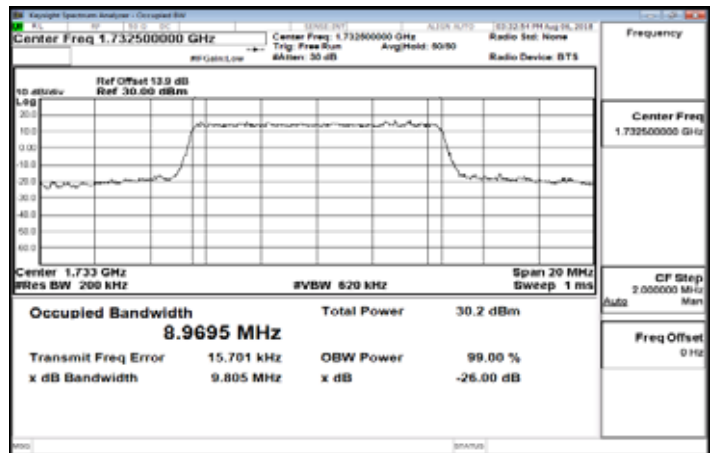
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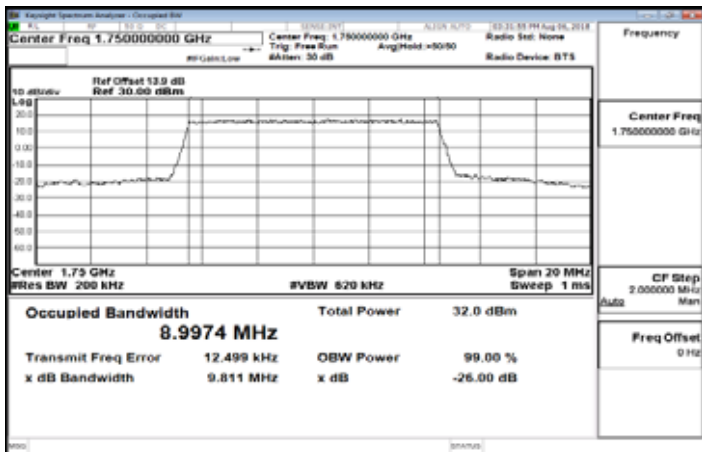
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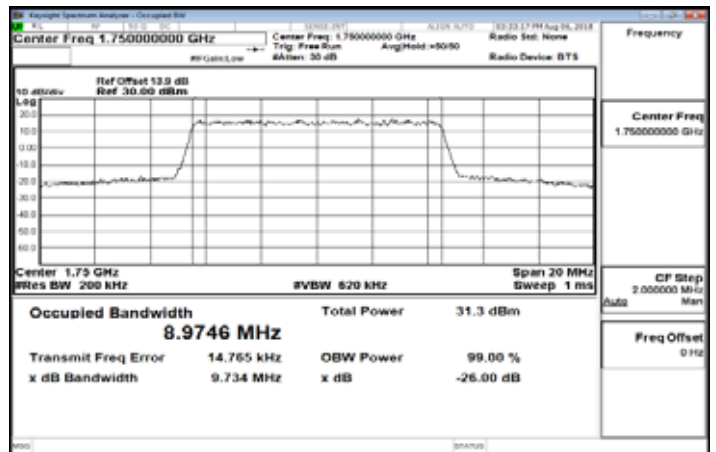
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Band4_10MHz_QPSK_50_0_HighCH20350-1750



Band4_10MHz_16QAM_50_0_HighCH20350-1750



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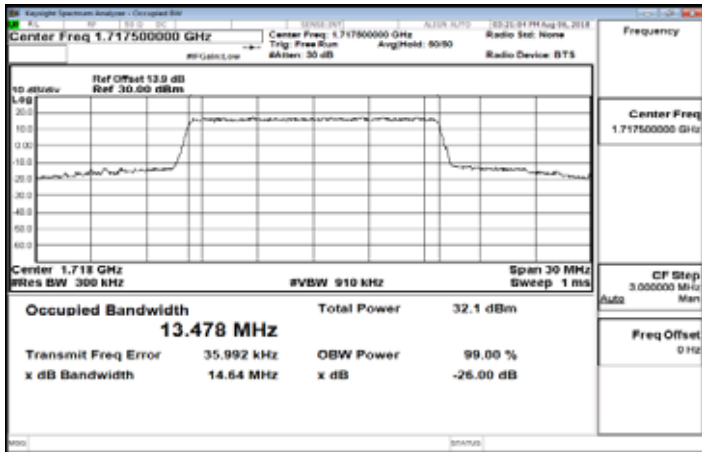
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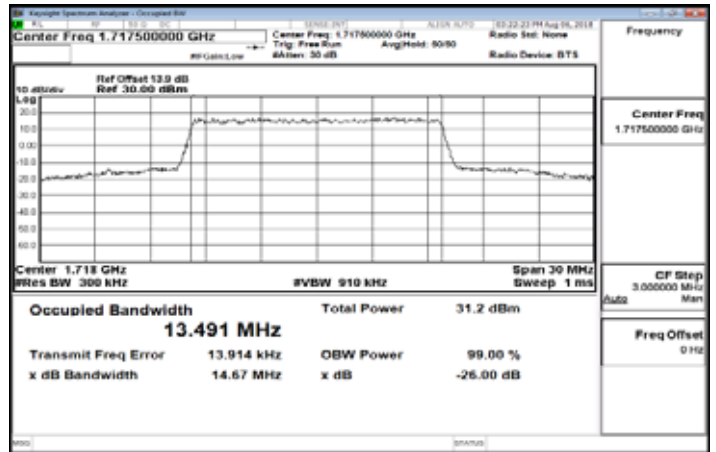
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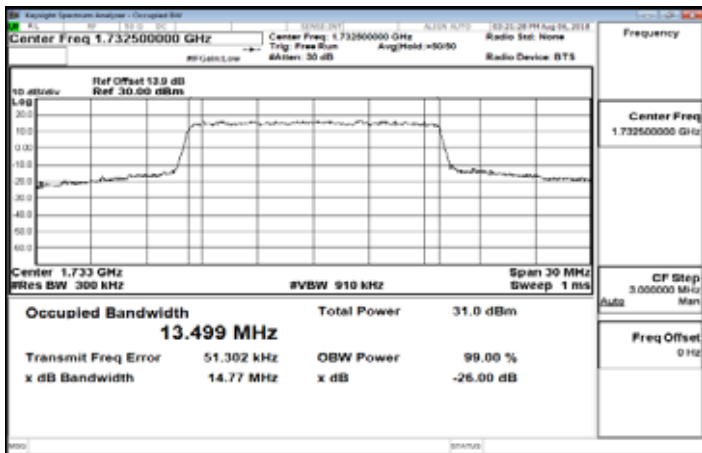
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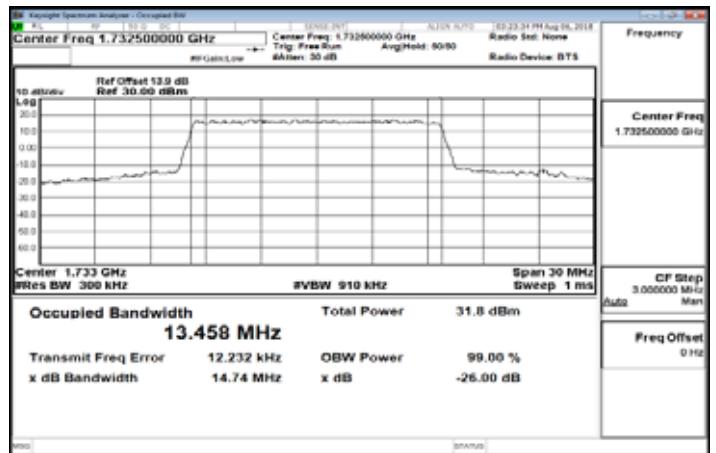
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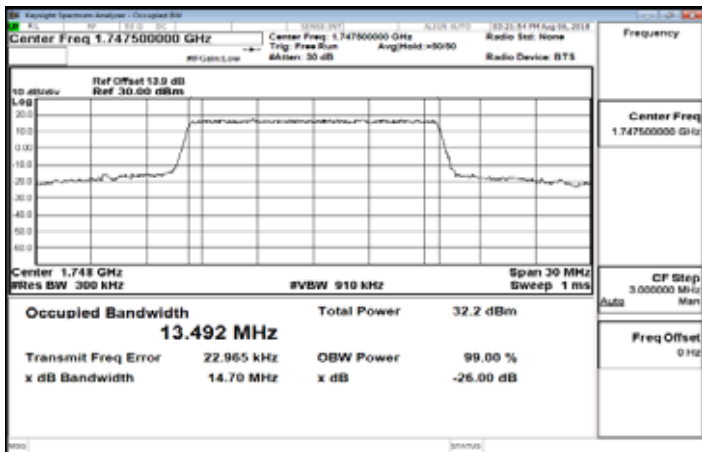
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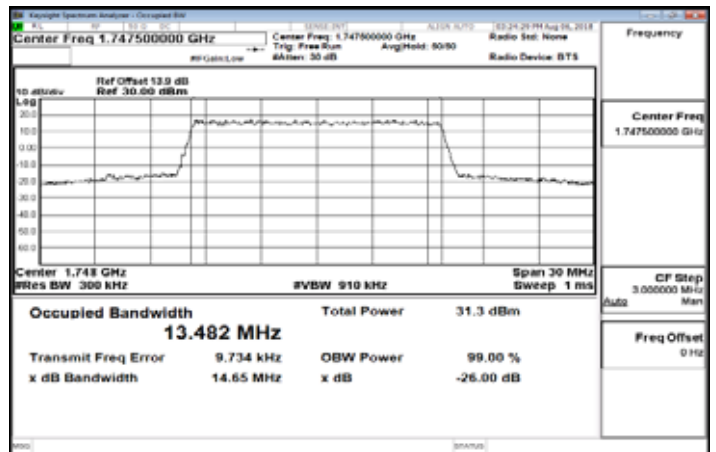
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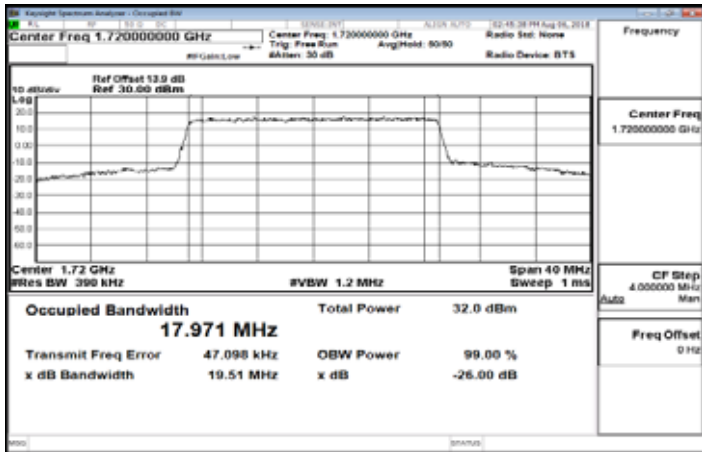


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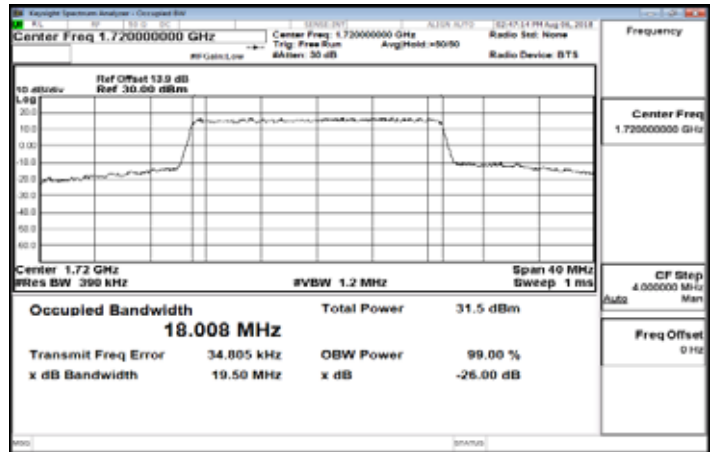
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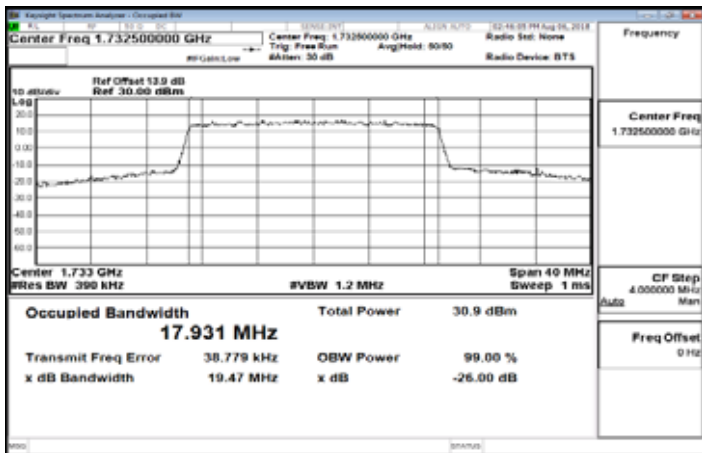
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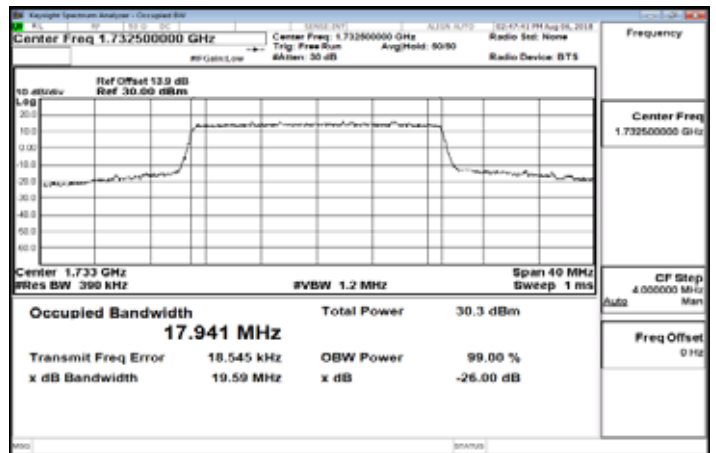
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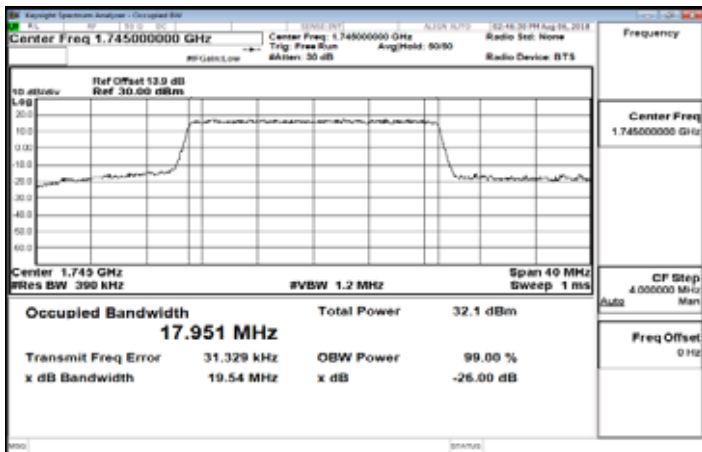
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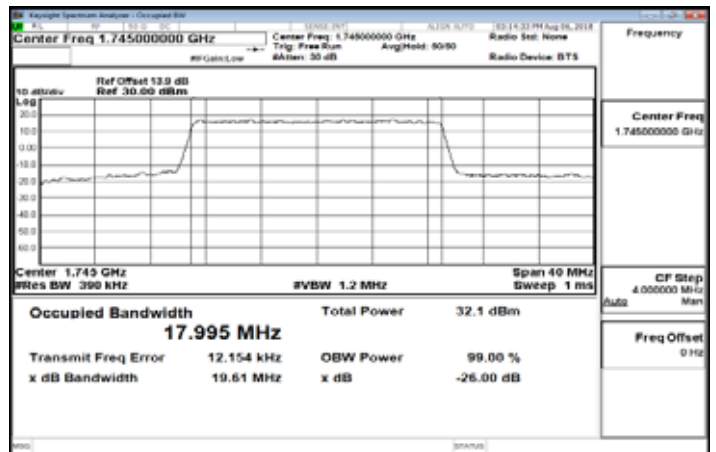
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Band4_20MHz_QPSK_100_0_HighCH20300-1745



Band4_20MHz_16QAM_100_0_HighCH20300-1745



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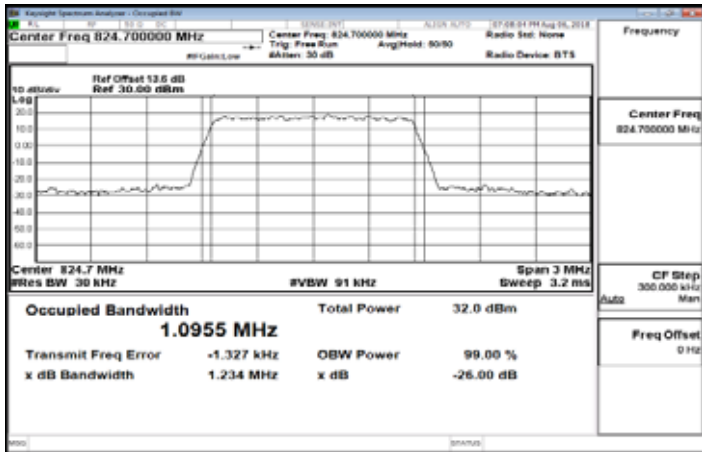
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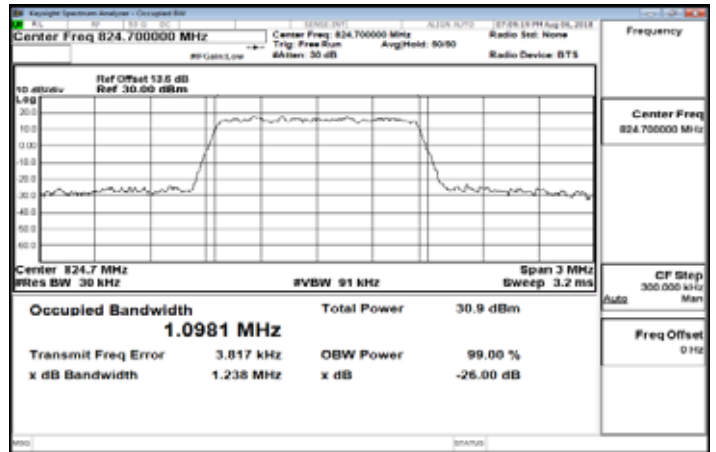
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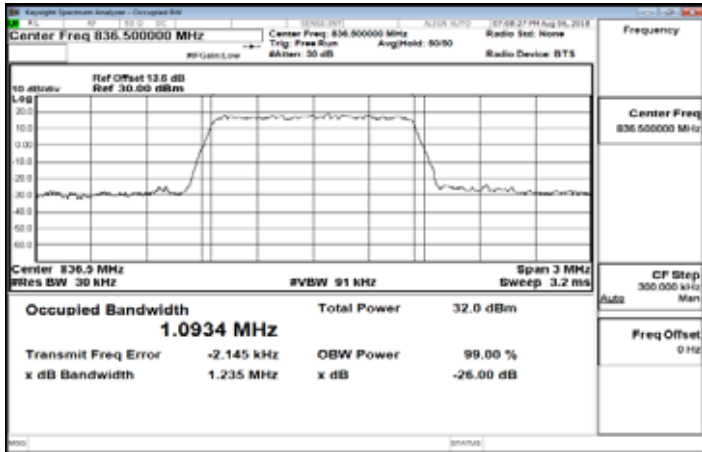
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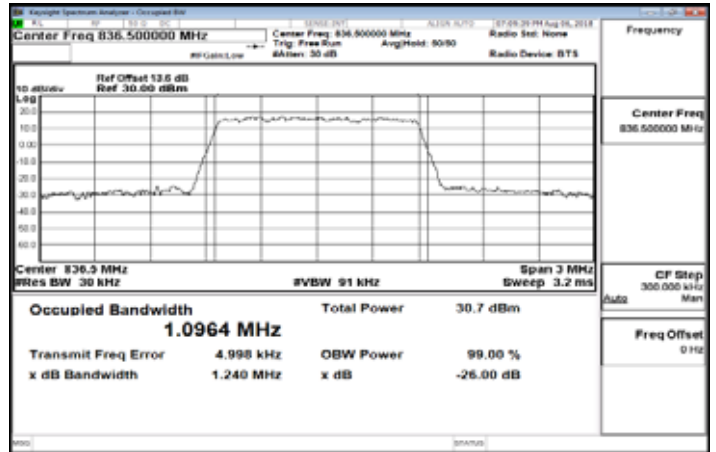
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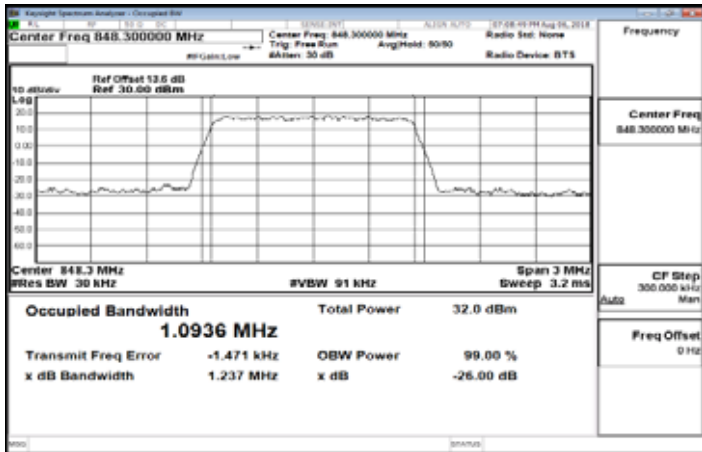
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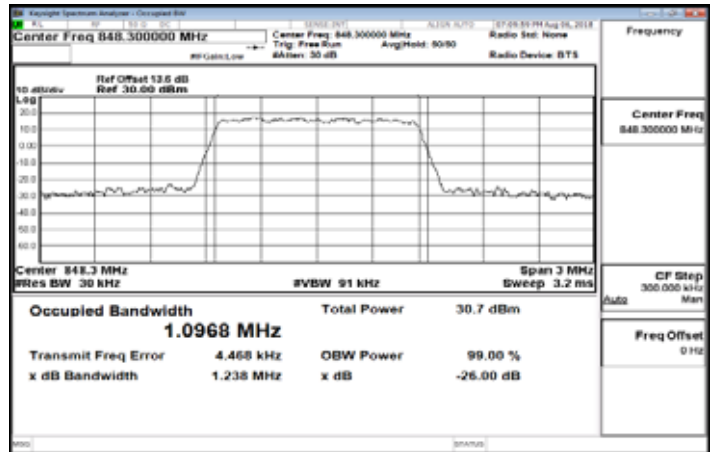
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Band5_1_4MHz_QPSK_6_0_HighCH20643-848.3



Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



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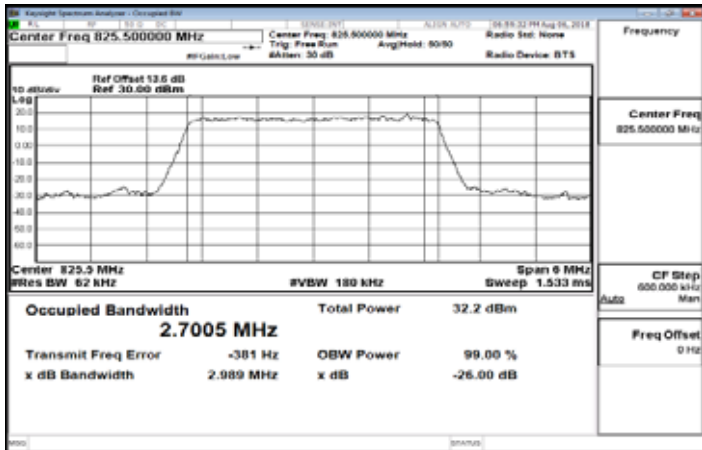
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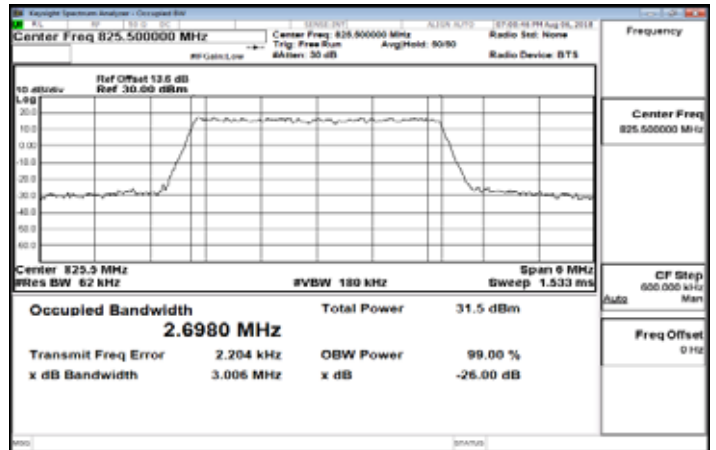
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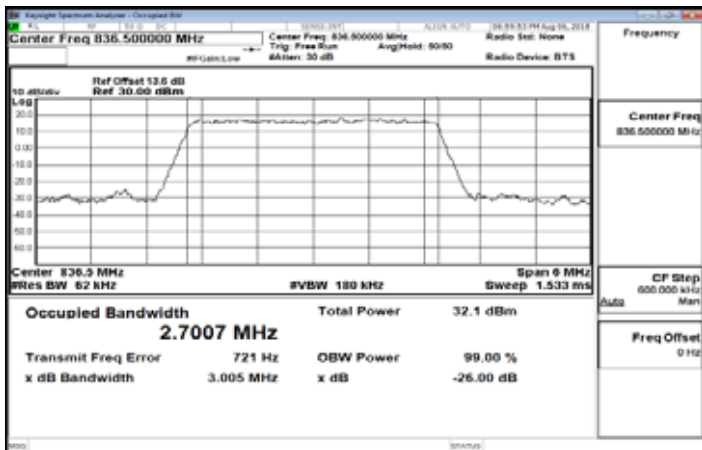
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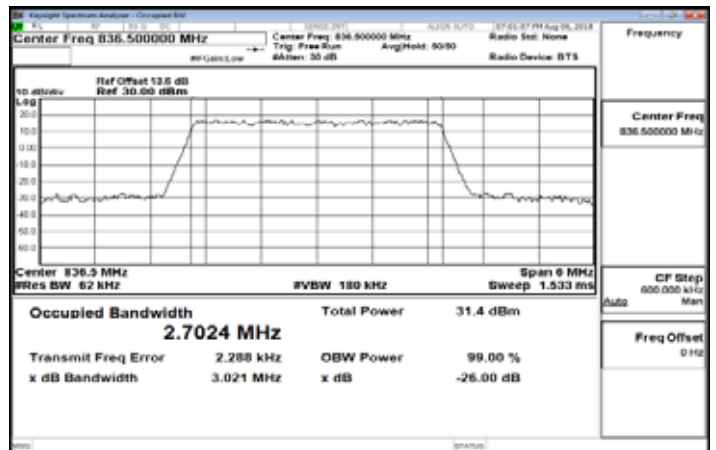
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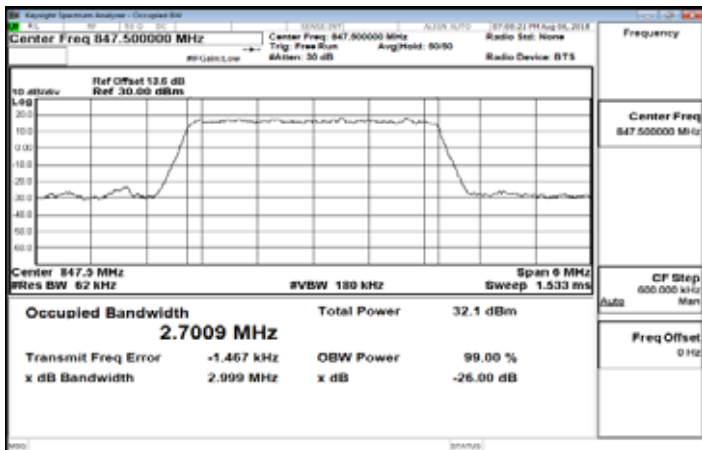
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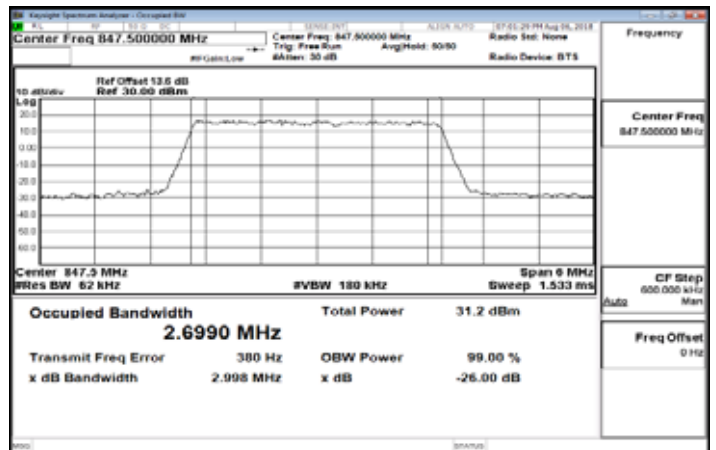
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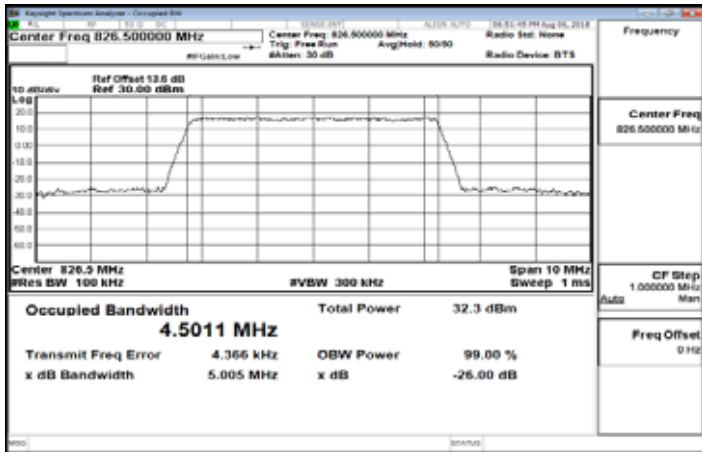


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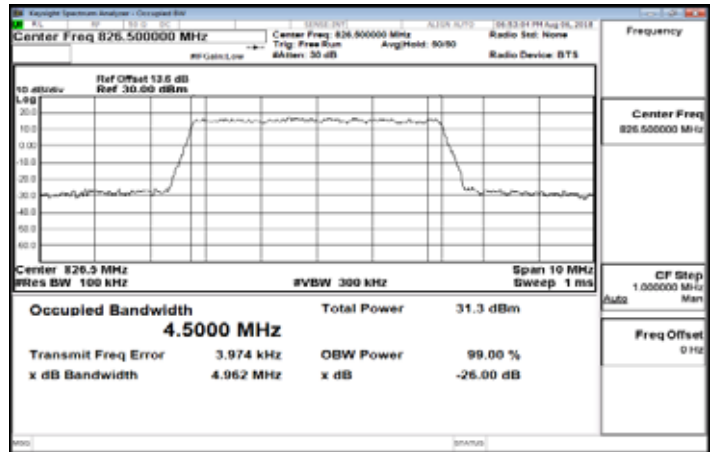
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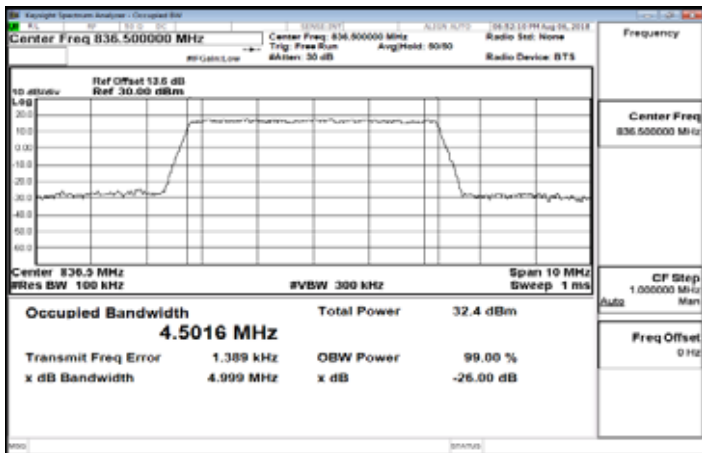
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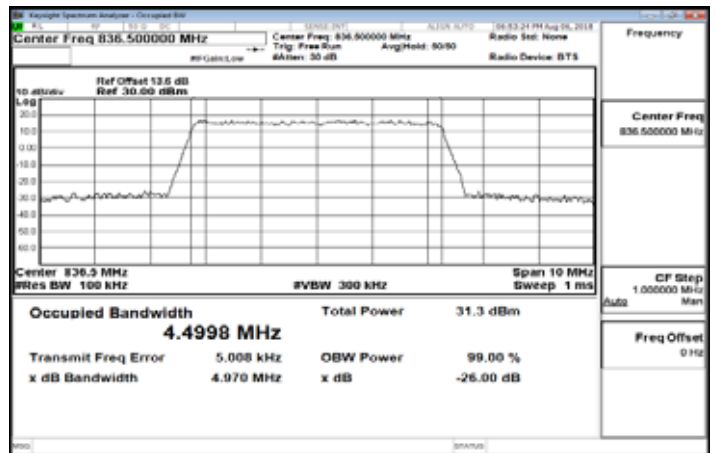
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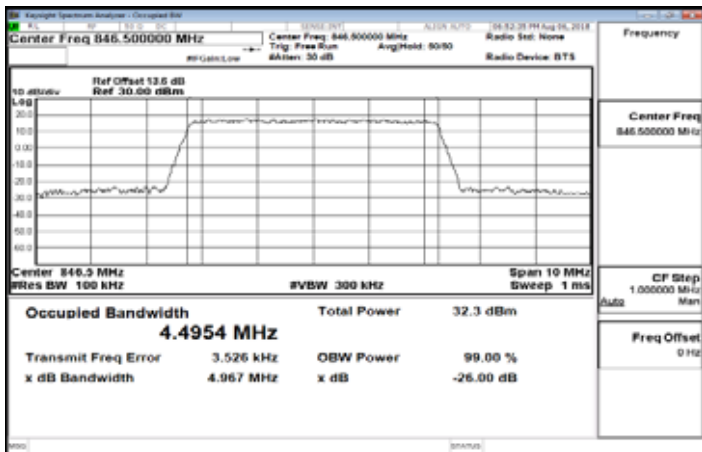
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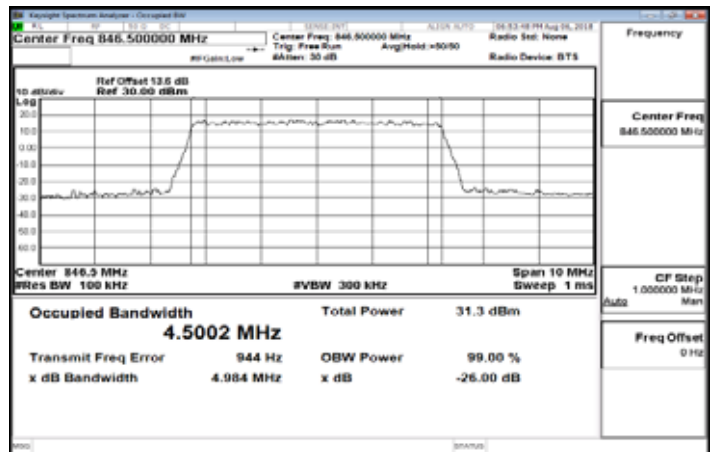
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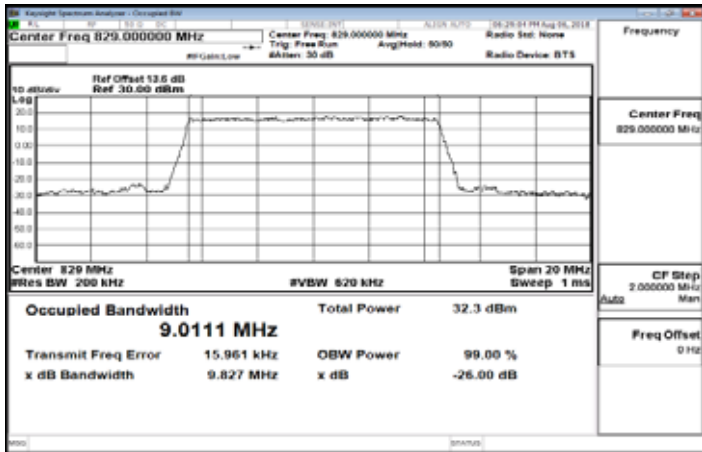


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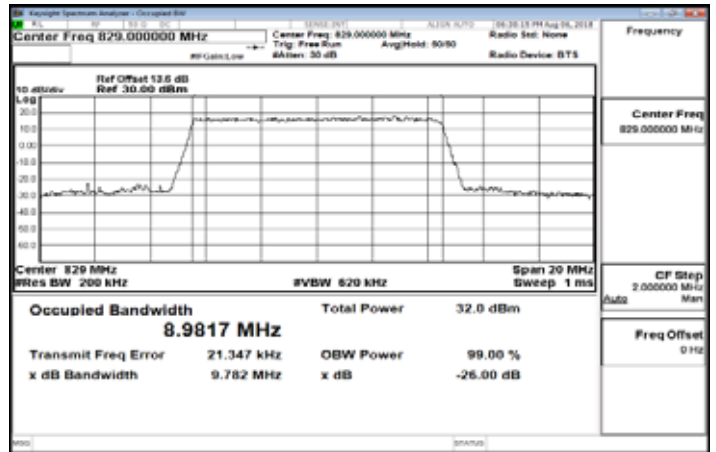
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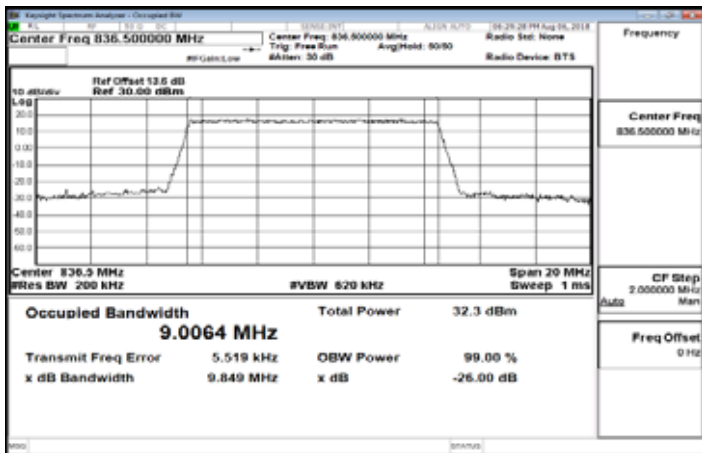
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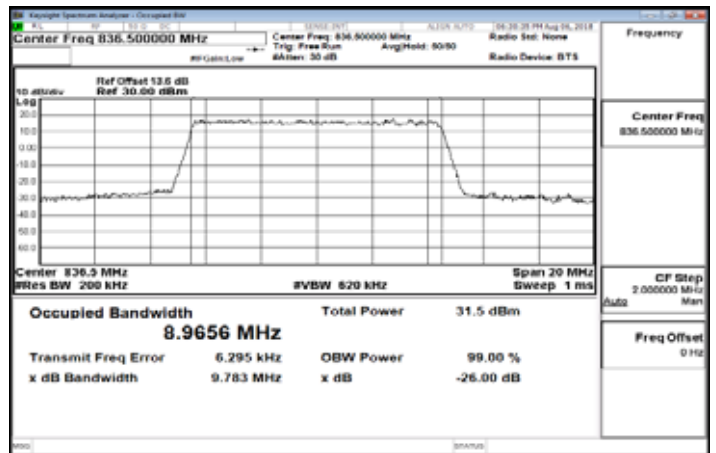
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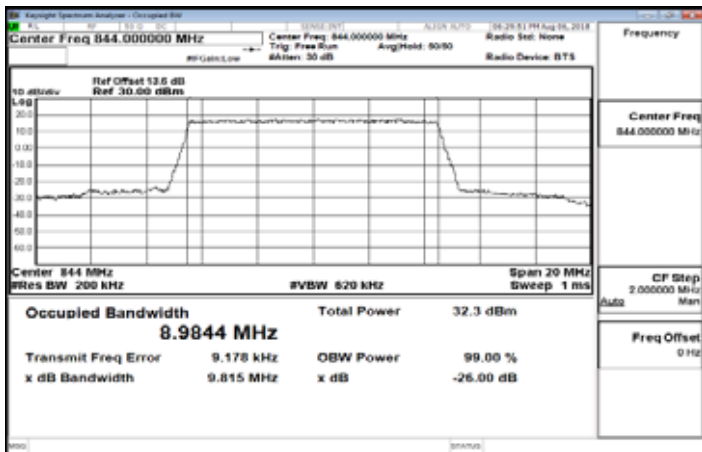
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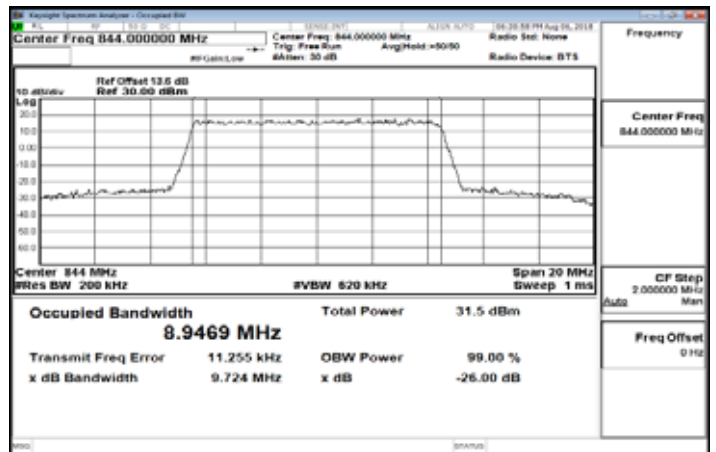
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Band5_10MHz_QPSK_50_0_HighCH20600-844



Band5_10MHz_16QAM_50_0_HighCH20600-844



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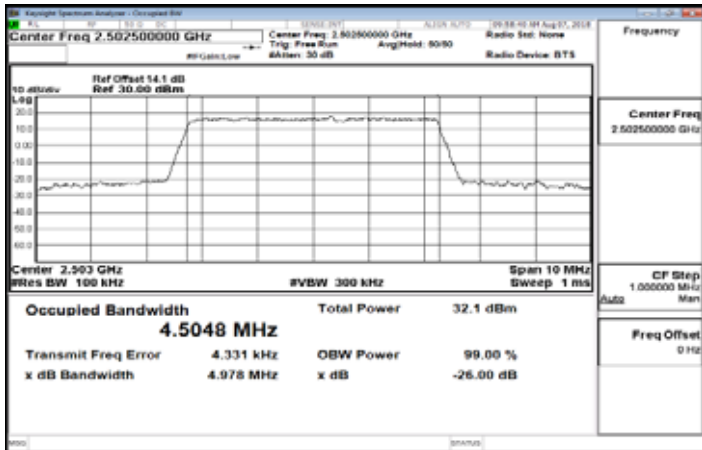
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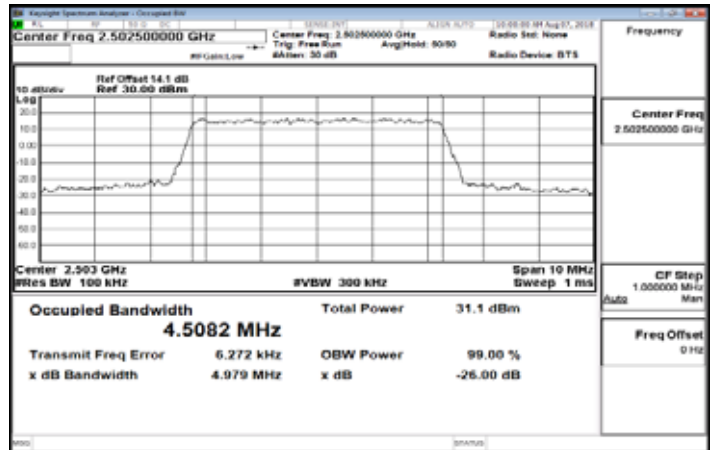
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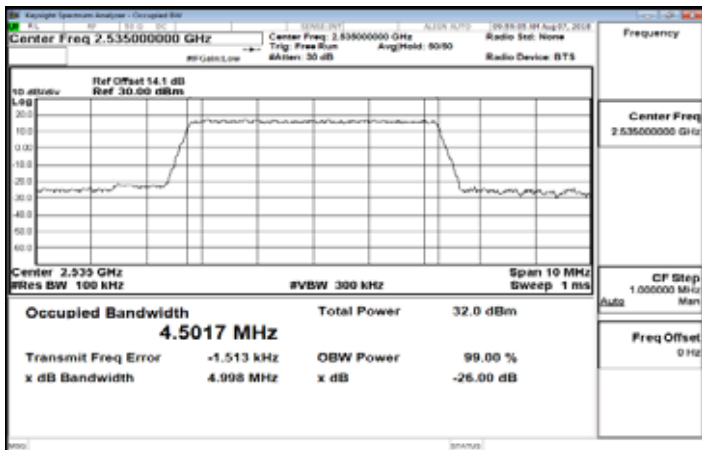
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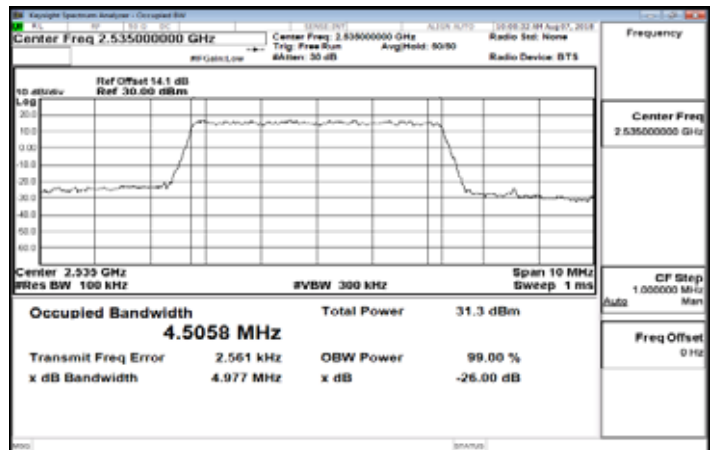
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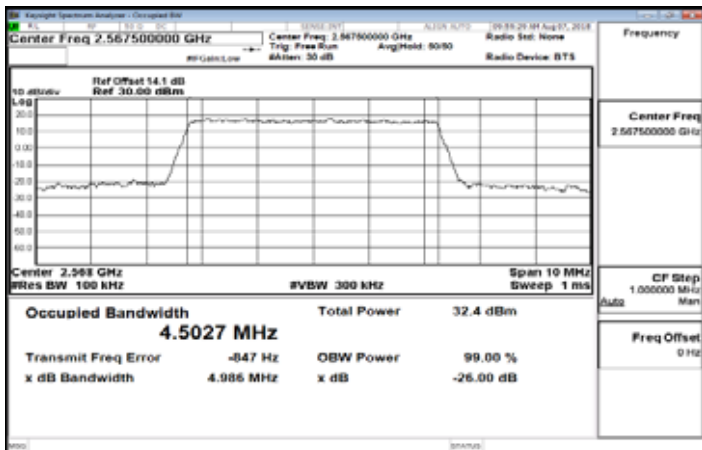
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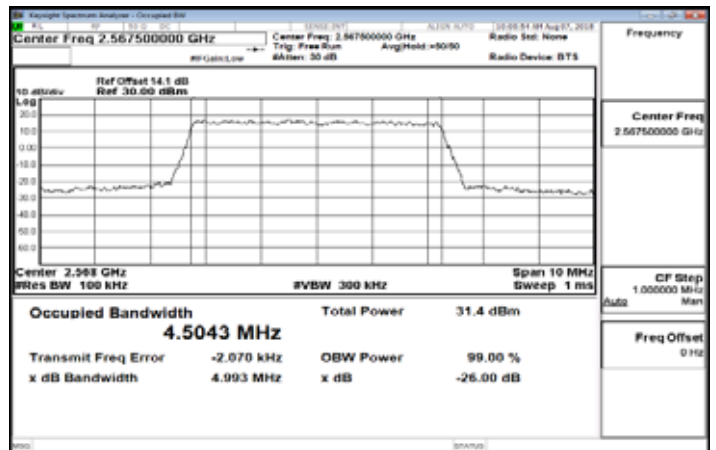
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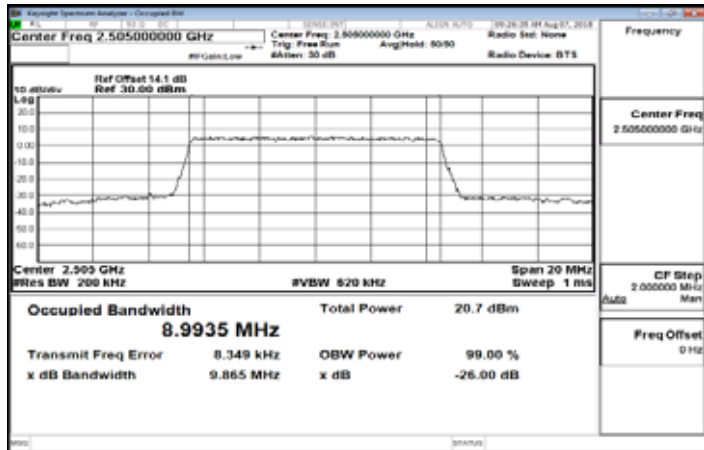
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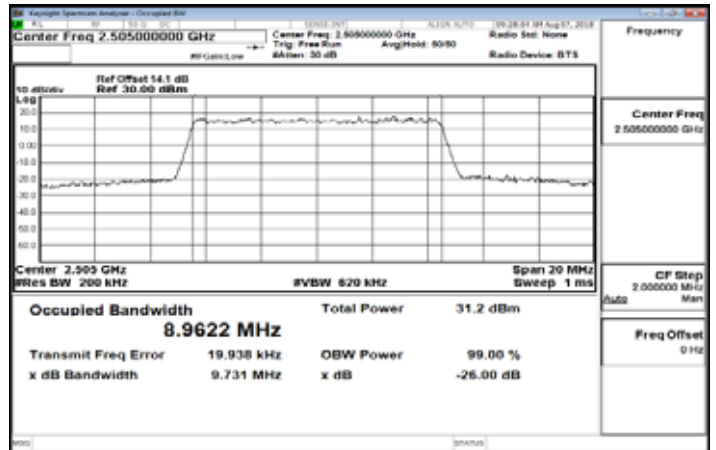
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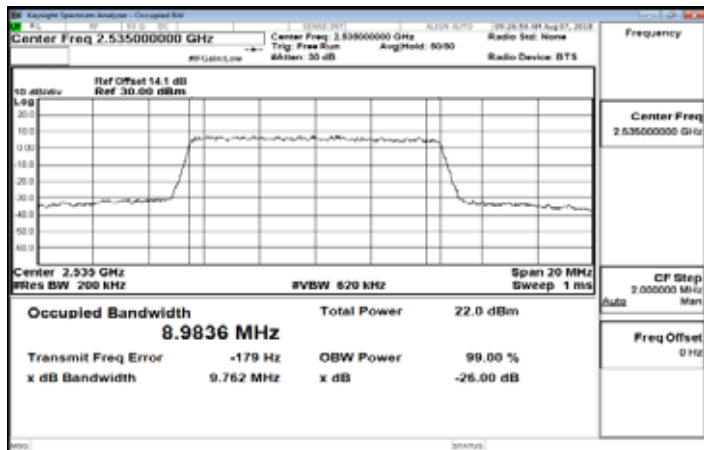
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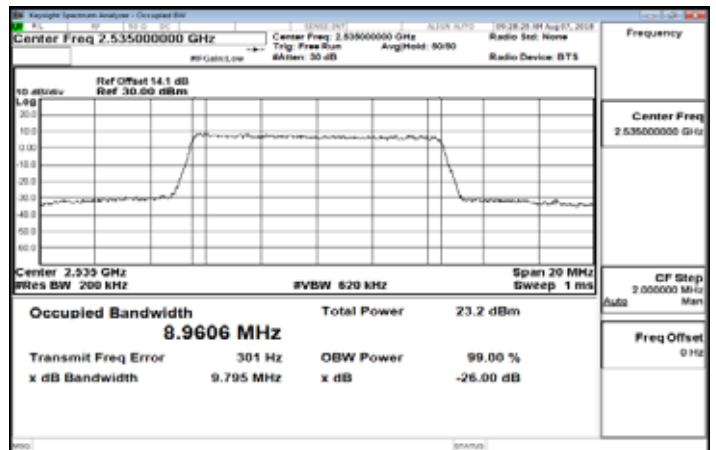
Band7_10MHz_16QAM_50_0_LowCH20800-2505



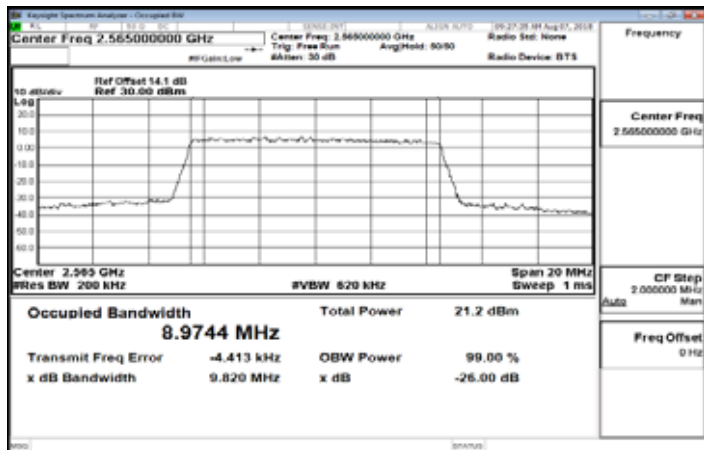
Band7_10MHz_QPSK_50_0_MidCH21100-2535



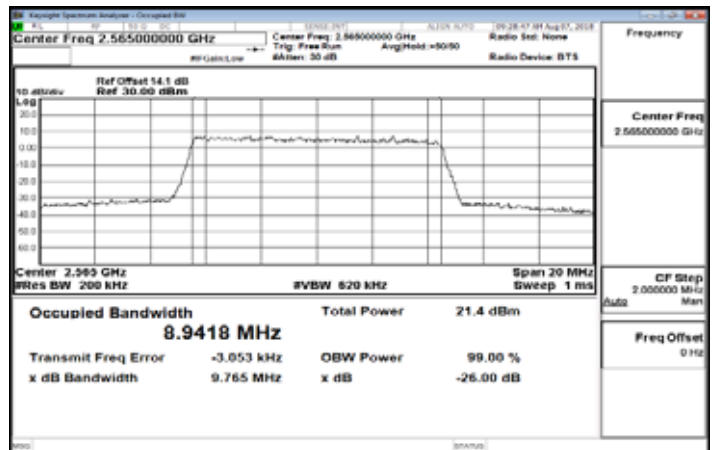
Band7_10MHz_16QAM_50_0_MidCH21100-2535



Band7_10MHz_QPSK_50_0_HighCH21400-2565



Band7_10MHz_16QAM_50_0_HighCH21400-2565



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

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