

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

OF

Applicant: HP Inc.
1501 Page Mill Road Palo Alto, CA 94304
Product Name: Notebook PC
Brand Name: HP
Model No.: TPN-Q212
Model Difference: N/A
FCC ID: B94TNQ212FWPH
Report Number: E2/2018/B0047
FCC Rule Part: 2, 22H & 24E & 27B, C & L & 90 R,S
Issue Date: Dec. 17, 2018
Date of Test: Nov. 13, 2018 ~ Dec. 07, 2018
Date of EUT Received: Nov. 13, 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
Vito Pei / Sr. Engineer

Approved By:

Jazz Huang
Jazz Huang / Asst. Supervisor



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Revision History

Report Number	Revision	Description	Effected Page	Issue Date	Revised By
E2/2018/B0047	Rev.00	Initial creation of document	All	Dec. 17, 2018	Stefanie Yu

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Contents

1. GENERAL PRODUCT INFORMATION	4
2. SYSTEM TEST CONFIGURATION	13
3. SUMMARY OF TEST RESULTS	16
4. DESCRIPTION OF TEST MODES	17
5. MEASUREMENT UNCERTAINTY	34
6. MAXMUM OUTPUT POWER.....	35
7. OCCUPIED BANDWIDTH MEASUREMENT.....	103
8. OUT OF BAND EMISSION AT ANTENNA TERMINALS	204
9. FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT	404
10. FREQUENCY STABILITY MEASUREMENT.....	526
11. PEAK TO AVERAGE RATIO.....	540

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook PC	
Brand Name:	HP	
Model No.:	TPN-Q212	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	15.4Vdc from Rechargeable Li-polymer Battery or 5 / 9 / 12 / 15 / 20Vdc from AC/DC Adapter	
	Battery:	Model No.: HSTNN-IB8R, Supplier: Chongqing C-Tech Technology Co., Ltd.
	Adapter:	Model No.: TPN-TA02, Supplier: Yada Electronics Co., Ltd
IMEI:	867921030073150	

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1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

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

LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
2	1.4	1850.7 - 1909.3	14	5	790.5 - 795.5
	3	1851.5 - 1908.5		10	793
	5	1852.5 - 1907.5	17	5	706.5 - 713.5
	10	1855.0 - 1905.0		10	709.0 - 711.0
	15	1857.5 - 1902.5	25	1.4	1850.7 - 1914.3
	20	1860.0 - 1900.0		3	1851.5 - 1913.5
4	1.4	1710.7 - 1754.3		5	1852.5 - 1912.5
	3	1711.5 - 1753.5		10	1855.0 - 1910.0
	5	1712.5 - 1752.5		15	1857.5 - 1907.5
	10	1715.0 - 1780.0		20	1860.0 - 1905.0
	15	1717.5 - 1747.5	26	1.4	824.7 - 848.3
	20	1720.0 - 1745.0		3	825.5 - 847.5
5	1.4	824.7 - 848.3		5	826.5 - 846.5
	3	825.5 - 847.5		10	829.0 - 844.0
	5	826.5 - 846.5	26 Part90	15	831.5 - 841.5
	10	829.0 - 844.0		1.4	814.7 - 823.3
7	5	2502.5 - 2567.5		3	815.5 - 822.5
	10	2505.0 - 2565.0		5	816.5 - 821.5
	15	2507.5 - 2562.5		10	819.0
	20	2510.0 - 2560.0	30	5	2307.5 - 2312.5
12	1.4	699.7 - 715.3		10	2310.0
	3	700.5 - 714.5	38	5	2572.5 - 2617.5
	5	701.5 - 713.5		10	2575.0 - 2615.0
	10	704.0 - 711.0		15	2577.5 - 2612.5
13	5	779.5 - 784.5		20	2580.0 - 2610.0
	10	782			

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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)
ACON	PIFA	Main	DQ60AUP6Y00 (AUP6Y-400000)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-5.76
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-5.78
				WCDMA / HSPA Band V	826.4 ~ 846.6	-4.97
				LTE Band 2	1850 ~ 1910	-5.33
				LTE Band 4	1710 ~ 1755	-5.34
				LTE Band 5	824 ~ 849	-4.74
				LTE Band 7	2503 ~ 2560	-3.15
				LTE Band 12	699 ~ 716	-5.86
				LTE Band 13	777 ~ 787	-5.04
				LTE Band 14	788 ~ 798	N/A
				LTE Band 17	704 ~ 716	-5.86
				LTE Band 25	1850 ~ 1915	-5.33
				LTE Band 26	824 ~ 849	-4.74
				LTE Band 26 (Part 90S)	814 ~ 824	N/A
				LTE Band 30	2305 ~ 2315	-3.39
				LTE Band 38	2570 ~ 2620	-3.93
				LTE Band 41	2496 ~ 2690	-3.15
				LTE Band 66	1710 ~ 1780	-5.34
	PIFA	Aux	DQ60AUP6Y00 (AUP6Y-400000)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-6.4
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	-6.4
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	-7.23
				LTE Band 14	788 ~ 798	-7.23
				LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	-6.4
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 (Part 90S)	814 ~ 824	-6.54
				LTE Band 30	2305 ~ 2315	N/A
				LTE Band 38	2570 ~ 2620	-6.79
				LTE Band 41	2496 ~ 2690	-7.64
				LTE Band 66	1710 ~ 1780	N/A

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

	ERP / EIRP (dBm)		W	Type of Emission
WCDMA Band II	18.23	EIRP	0.067	4M09F9W
HSDPA Band II	18.22	EIRP	0.066	4M09F9W
HSUPA Band II	17.53	EIRP	0.057	4M09F9W
WCDMA Band IV	18.06	EIRP	0.064	4M07F9W
HSDPA Band IV	18.05	EIRP	0.064	4M08F9W
HSUPA Band IV	17.50	EIRP	0.056	4M08F9W
WCDMA Band V	19.24	ERP	0.084	4M09F9W
HSDPA Band V	19.20	ERP	0.083	4M10F9W
HSUPA Band V	18.03	ERP	0.064	4M10F9W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	18.00	EIRP	0.063	1M11G7D
		16QAM	17.08	EIRP	0.051	1M12D7W
		64QAM	17.55	EIRP	0.057	1M11D7W
2	3	QPSK	18.02	EIRP	0.063	2M73G7D
		16QAM	17.42	EIRP	0.055	2M73D7W
		64QAM	17.38	EIRP	0.055	2M73D7W
2	5	QPSK	18.04	EIRP	0.064	4M55G7D
		16QAM	17.52	EIRP	0.056	4M53D7W
		64QAM	17.54	EIRP	0.057	4M63D7W
2	10	QPSK	18.22	EIRP	0.066	9M10G7D
		16QAM	17.38	EIRP	0.055	9M13D7W
		64QAM	17.40	EIRP	0.055	9M32D7W
2	15	QPSK	18.05	EIRP	0.064	13M6G7D
		16QAM	17.63	EIRP	0.058	13M6D7W
		64QAM	17.52	EIRP	0.056	13M6D7W
2	20	QPSK	18.23	EIRP	0.067	18M1G7D
		16QAM	17.59	EIRP	0.057	18M1D7W
		64QAM	17.46	EIRP	0.056	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	17.81	EIRP	0.060	1M11G7D
		16QAM	17.34	EIRP	0.054	1M11D7W
		64QAM	17.47	EIRP	0.056	1M11D7W
4	3	QPSK	17.76	EIRP	0.060	2M73G7D
		16QAM	17.49	EIRP	0.056	2M72D7W
		64QAM	17.46	EIRP	0.056	2M72D7W
4	5	QPSK	17.93	EIRP	0.062	4M53G7D
		16QAM	17.32	EIRP	0.054	4M52D7W
		64QAM	17.52	EIRP	0.056	4M52D7W
4	10	QPSK	18.08	EIRP	0.064	9M08G7D
		16QAM	17.46	EIRP	0.056	9M09D7W
		64QAM	17.50	EIRP	0.056	9M09D7W
4	15	QPSK	18.00	EIRP	0.063	13M6G7D
		16QAM	17.51	EIRP	0.056	13M6D7W
		64QAM	17.56	EIRP	0.057	13M6D7W
4	20	QPSK	18.03	EIRP	0.064	18M1G7D
		16QAM	17.57	EIRP	0.057	18M1D7W
		64QAM	17.43	EIRP	0.055	18M1D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	18.51	ERP	0.071	1M13G7D
		16QAM	18.00	ERP	0.063	1M15D7W
		64QAM	17.89	ERP	0.062	1M11D7W
5	3	QPSK	18.44	ERP	0.070	2M74G7D
		16QAM	17.76	ERP	0.060	2M73D7W
		64QAM	17.88	ERP	0.061	2M72D7W
5	5	QPSK	18.59	ERP	0.072	4M54G7D
		16QAM	18.01	ERP	0.063	4M55D7W
		64QAM	17.86	ERP	0.061	4M54D7W
5	10	QPSK	18.71	ERP	0.074	9M19G7D
		16QAM	17.92	ERP	0.062	9M26D7W
		64QAM	17.87	ERP	0.061	9M15D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
7	5	QPSK	20.20	EIRP	0.105	4M55G7D
		16QAM	19.83	EIRP	0.096	4M54D7W
		64QAM	19.50	EIRP	0.089	4M53D7W
7	10	QPSK	20.44	EIRP	0.111	9M11G7D
		16QAM	19.73	EIRP	0.094	9M10D7W
		64QAM	19.42	EIRP	0.087	9M14D7W
7	15	QPSK	20.30	EIRP	0.107	13M6G7D
		16QAM	19.81	EIRP	0.096	13M6D7W
		64QAM	19.46	EIRP	0.088	13M6D7W
7	20	QPSK	20.48	EIRP	0.112	18M1G7D
		16QAM	19.52	EIRP	0.090	18M0D7W
		64QAM	19.36	EIRP	0.086	18M1D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
12	1.4	QPSK	17.33	ERP	0.054	1M11G7D
		16QAM	17.04	ERP	0.051	1M12D7W
		64QAM	17.03	ERP	0.050	1M11D7W
12	3	QPSK	17.30	ERP	0.054	2M73G7D
		16QAM	16.48	ERP	0.044	2M73D7W
		64QAM	16.98	ERP	0.050	2M72D7W
12	5	QPSK	17.76	ERP	0.060	4M56G7D
		16QAM	16.50	ERP	0.045	4M53D7W
		64QAM	16.88	ERP	0.049	4M52D7W
12	10	QPSK	17.77	ERP	0.060	9M13G7D
		16QAM	16.88	ERP	0.049	9M16D7W
		64QAM	16.93	ERP	0.049	9M12D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	18.29	ERP	0.067	4M53G7D
		16QAM	17.71	ERP	0.059	4M53D7W
		64QAM	17.69	ERP	0.059	4M55D7W
13	10	QPSK	18.35	ERP	0.068	9M01G7D
		16QAM	17.55	ERP	0.057	9M01D7W
		64QAM	17.40	ERP	0.055	9M04D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
14	5	QPSK	18.49	ERP	0.071	4M55G7D
		16QAM	17.88	ERP	0.061	4M54D7W
		64QAM	17.88	ERP	0.061	4M52D7W
14	10	QPSK	18.68	ERP	0.074	9M03G7D
		16QAM	17.85	ERP	0.061	9M06D7W
		64QAM	17.69	ERP	0.059	9M07D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
17	5	QPSK	17.59	ERP	0.057	4M53G7D
		16QAM	16.75	ERP	0.047	4M53D7W
		64QAM	16.69	ERP	0.047	4M52D7W
17	10	QPSK	17.40	ERP	0.055	9M03G7D
		16QAM	16.72	ERP	0.047	9M07D7W
		64QAM	16.73	ERP	0.047	9M05D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
25	1.4	QPSK	17.75	EIRP	0.060	1M12G7D
		16QAM	17.09	EIRP	0.051	1M10D7W
		64QAM	17.13	EIRP	0.052	1M11D7W
25	3	QPSK	17.81	EIRP	0.060	2M74G7D
		16QAM	17.30	EIRP	0.054	2M73D7W
		64QAM	17.08	EIRP	0.051	2M72D7W
25	5	QPSK	17.93	EIRP	0.062	4M53G7D
		16QAM	17.17	EIRP	0.052	4M51D7W
		64QAM	17.12	EIRP	0.052	4M50D7W
25	10	QPSK	17.89	EIRP	0.062	9M09G7D
		16QAM	17.27	EIRP	0.053	9M07D7W
		64QAM	17.14	EIRP	0.052	9M05D7W
25	15	QPSK	17.89	EIRP	0.062	13M6G7D
		16QAM	17.52	EIRP	0.056	13M6D7W
		64QAM	17.24	EIRP	0.053	13M6D7W
25	20	QPSK	18.01	EIRP	0.063	18M1G7D
		16QAM	17.24	EIRP	0.053	18M0D7W
		64QAM	17.16	EIRP	0.052	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26	1.4	QPSK	18.55	ERP	0.072	1M13G7D
		16QAM	17.88	ERP	0.061	1M13D7W
		64QAM	17.99	ERP	0.063	1M11D7W
26	3	QPSK	18.53	ERP	0.071	2M74G7D
		16QAM	17.92	ERP	0.062	2M74D7W
		64QAM	17.99	ERP	0.063	2M73D7W
26	5	QPSK	18.54	ERP	0.071	4M53G7D
		16QAM	17.79	ERP	0.060	4M53D7W
		64QAM	18.14	ERP	0.065	4M52D7W
26	10	QPSK	18.74	ERP	0.075	9M17G7D
		16QAM	17.98	ERP	0.063	9M18D7W
		64QAM	17.96	ERP	0.063	9M17D7W
26	15	QPSK	18.75	ERP	0.075	13M6G7D
		16QAM	18.15	ERP	0.065	13M6D7W
		64QAM	18.04	ERP	0.064	13M6D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26	1.4	QPSK	16.38	ERP	0.043	1M11G7D
		16QAM	15.55	ERP	0.036	1M11D7W
		64QAM	15.47	ERP	0.035	1M11D7W
26	3	QPSK	16.06	ERP	0.040	2M74G7D
		16QAM	15.44	ERP	0.035	2M73D7W
		64QAM	15.31	ERP	0.034	2M72D7W
26	5	QPSK	16.48	ERP	0.044	4M54G7D
		16QAM	15.67	ERP	0.037	4M53D7W
		64QAM	15.51	ERP	0.036	4M51D7W
26	10	QPSK	16.41	ERP	0.044	9M03G7D
		16QAM	15.75	ERP	0.038	9M01D7W
		64QAM	15.63	ERP	0.037	9M02D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
30	5	QPSK	19.40	EIRP	0.087	4M53G7D
		16QAM	18.93	EIRP	0.078	4M52D7W
		64QAM	19.11	EIRP	0.081	4M52D7W
30	10	QPSK	19.42	EIRP	0.087	9M09G7D
		16QAM	18.63	EIRP	0.073	9M07D7W
		64QAM	18.81	EIRP	0.076	9M05D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	19.69	EIRP	0.093	4M54G7D
		16QAM	18.83	EIRP	0.076	4M59D7W
		64QAM	19.00	EIRP	0.079	4M52D7W
38	10	QPSK	19.61	EIRP	0.091	9M07G7D
		16QAM	18.89	EIRP	0.077	9M20D7W
		64QAM	18.83	EIRP	0.076	9M04D7W
38	15	QPSK	19.85	EIRP	0.097	13M6G7D
		16QAM	18.77	EIRP	0.075	13M7D7W
		64QAM	18.89	EIRP	0.077	13M5D7W
38	20	QPSK	19.84	EIRP	0.096	18M0G7D
		16QAM	18.89	EIRP	0.077	18M1D7W
		64QAM	19.03	EIRP	0.080	18M0D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
41	5	QPSK	20.06	EIRP	0.101	4M53G7D
		16QAM	19.83	EIRP	0.096	4M53D7W
		64QAM	19.81	EIRP	0.096	4M52D7W
41	10	QPSK	20.67	EIRP	0.117	9M07G7D
		16QAM	19.69	EIRP	0.093	9M09D7W
		64QAM	19.75	EIRP	0.094	9M04D7W
41	15	QPSK	20.54	EIRP	0.113	13M6G7D
		16QAM	19.66	EIRP	0.092	13M6D7W
		64QAM	19.30	EIRP	0.085	13M6D7W
41	20	QPSK	20.68	EIRP	0.117	18M1G7D
		16QAM	19.82	EIRP	0.096	18M1D7W
		64QAM	19.84	EIRP	0.096	18M0D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	17.64	EIRP	0.058	1M11G7D
		16QAM	17.41	EIRP	0.055	1M11D7W
		64QAM	17.11	EIRP	0.051	1M11D7W
66	3	QPSK	17.67	EIRP	0.058	2M72G7D
		16QAM	17.25	EIRP	0.053	2M72D7W
		64QAM	17.20	EIRP	0.052	2M72D7W
66	5	QPSK	17.76	EIRP	0.060	4M52G7D
		16QAM	17.14	EIRP	0.052	4M53D7W
		64QAM	17.27	EIRP	0.053	4M50D7W
66	10	QPSK	17.92	EIRP	0.062	9M08G7D
		16QAM	17.31	EIRP	0.054	9M08D7W
		64QAM	17.15	EIRP	0.052	9M11D7W
66	15	QPSK	17.91	EIRP	0.062	13M5G7D
		16QAM	17.30	EIRP	0.054	13M6D7W
		64QAM	17.21	EIRP	0.053	13M6D7W
66	20	QPSK	17.75	EIRP	0.060	18M0G7D
		16QAM	17.29	EIRP	0.054	18M0D7W
		64QAM	17.19	EIRP	0.052	18M0D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System 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.

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.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 code 0513)

FCC Registration Numbers are: 735305 / TW0002

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

2.2. EUT Exercise

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

2.3. Test Procedure

2.3.1 Conducted Measurement at Antenna Port

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

2.3.2 Radiated Emissions (ERP/EIRP)

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

2.4. Measurement Results Explanation Example

For all conducted test items:

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

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Note:

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

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	4.1	10	14.1

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	11.55	1427
WCDMA B4		1433
WCDMA B5		1411
LTE Band 2		1478
LTE Band 4		1491
LTE Band 5		1286
LTE Band 7		1352
LTE Band 12		1300
LTE Band 13		1347
LTE Band 14		1338
LTE Band 17		1320
LTE Band 25		1490
LTE Band 26		1349
LTE Band 26 (Part 90S)		1306
LTE Band 30		1439
LTE Band 38		1425
LTE Band 41		1451
LTE Band 66		1357

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2.6. Configuration of Tested System

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

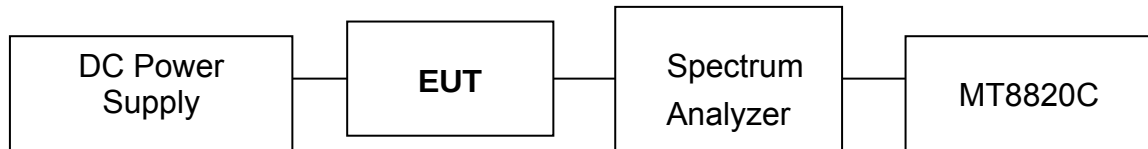
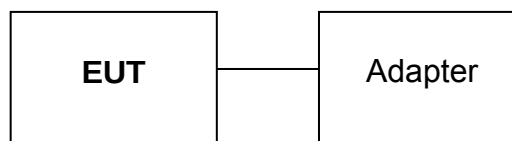


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)



Remote Side

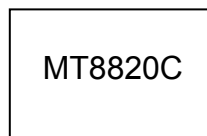


Table 2-1 Equipment Used in

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

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3. SUMMARY OF TEST RESULTS

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

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4. DESCRIPTION OF TEST MODES

4.1. The Worst Test Modes and Channel Details

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

BAND	RADIATED EMISSION
WCDMA/HSPA Band II	E1-plan
WCDMA/HSPA Band IV	E1-plan
WCDMA/HSPA Band V	E1-plan
LTE Band 2	E1-plan
LTE Band 4	E1-plan
LTE Band 5	E1-plan
LTE Band 7	E1-plan
LTE Band 12	E1-plan
LTE Band 13	E1-plan
LTE Band 14	E1-plan
LTE Band 17	E1-plan
LTE Band 25	E1-plan
LTE Band 26	E1-plan
LTE Band 26 (Part 90S)	E1-plan
LTE Band 30	E1-plan
LTE Bnad 38	E1-plan
LTE Band 41	E1-plan
LTE Band 66	E1-plan

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	9262, 9400, 9583 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
FREQUENCY STABILITY	4132 to 4233 1312 to 1513 9262 to 9538	4183 1413 9400	WCDMA Band II WCDMA Band IV WCDMA Band V
OCCUPIED BANDWIDTH	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
CONDUCTED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	WCDMA Band II WCDMA Band IV WCDMA Band V
RADIATED EMISSION	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4183, 4233 1312, 1413, 1513 9262, 9400, 9583	HSDPA Band II HSUPA Band IV 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, 64QAM	1 RB/ 0,5 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK, 16QAM, 64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK, 16QAM, 64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK, 16QAM, 64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK, 16QAM, 64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	18607 to 19193	18607, 18900, 19193	1.4MHz	64QAM	Full RB
	18615 to 19185	18615, 18900, 19185	3MHz	64QAM	Full RB
	18625 to 19175	18625, 18900, 19175	5MHz	64QAM	Full RB
	18650 to 19150	18650, 18900, 19150	10MHz	64QAM	Full RB
	18675 to 19125	18675, 18900, 19125	15MHz	64QAM	Full RB
	18700 to 19100	18700, 18900, 19100	20MHz	64QAM	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
CONDCUDED 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	18625 to 19175	18625, 18900, 19175	5MHz	QPSK	1 RB, 1,0 RB Offest

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LTE Band 4 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	19957 to 19393	19957, 20175, 19393	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	QPSK, 16QAM, 64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	19957 to 19393	19957, 20175, 19393	1.4MHz	64QAM	Full RB
	19965 to 22385	19965, 20175, 22385	3MHz	64QAM	Full RB
	19975 to 20375	19975, 20175, 20375	5MHz	64QAM	Full RB
	20000 to 20350	20000, 20175, 20350	10MHz	64QAM	Full RB
	20025 to 20325	20025, 20175, 20325	15MHz	64QAM	Full RB
	20050 to 20300	20050, 20175, 20300	20MHz	64QAM	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
CONDCUDED 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	20000 to 20350	20000, 20175, 20350	10MHz	QPSK,	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK, 16QAM, 64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	64QAM	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
CONDCUDED 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	QPSK	1 RB, 0 RB Offest

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LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	64QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BAND-WIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	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
CONDCU-DETED EMIS-ION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 5 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offset
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23230	23230	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23205 to 23255	23205, 23230, 23255	5MHz	64QAM	Full RB
	23230	23230	10MHz	64QAM	Full RB
BAND EDGE	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23230	23230	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK,	1 RB, 0 RB Offset
	23230	23230	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23205 to 23255	23205, 23255	5MHz	QPSK,	1 RB/ 24 RB Offset

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	1 RB/ 0,24 RB Offset
	23330	23330	10MHz	QPSK, 16QAM,	1 RB/ 0,49 RB Offset
FREQUENCY STABILITY	23330	23330	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM,	Full RB
	23330	23330	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23305 to 23355	23305,23330,23355	5MHz	16QAM	Full RB
	23330	23330	10MHz	16QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23355	5MHz	QPSK,	1 RB/ 0,24 RB Offset Full RB
	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offset Full RB
CONDCUDED EMISSION	23305 to 23355	23305,23330,23355	5MHz	QPSK,	1 RB, 0 RB Offset
	23330	23330	10MHz	QPSK,	1 RB, 0 RB Offset
RADIATED EMISSION	23305 to 23355	23305,23330,23355	10MHz	QPSK,	1 RB/ 49 RB Offset

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LTE Band 17 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23780 to 23800	23790	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23755 to 23825	23755, 23790, 23825	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23755 to 23825	23755, 23790, 23825	5MHz	64QAM	Full RB
	23780 to 23800	23780, 23790, 23800	10MHz	64QAM	Full RB
BAND EDGE	23755 to 23825	23755, 23825	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB/ 49 RB Offest

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LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	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
CONDCUETED 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 EMIS-SION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 5 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 64QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	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
CONDCUDED 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, 74 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 24 RB Offest

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LTE Band 30 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	27710	27710	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	27710	27710	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	27685 to 27735	27685, 27710, 27735	5MHz	QPSK, 16QAM, 64QAM	Full RB
	27710	27710	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	27685 to 27735	27685, 27710, 27735	5MHz	64QAM	Full RB
	27710	27710	10MHz	64QAM	Full RB
EMISSION MASK	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	27710	27710	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK,	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB/ 0 RB Offest

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LTE Band 38 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	1 RB/ 0,24 RB Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	1 RB/ 0,49 RB Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	1 RB/ 0,74 RB Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	16QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	16QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	16QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	16QAM	Full RB
BAND EDGE	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offset Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offset Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offset Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offset Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offset
RADIATED EMISSION	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 99 RB Offset
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offset 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, 64QAM	1 RB/ 0,24 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offset
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	39675 to 41565	39675, 40620, 41565	5MHz	64QAM	Full RB
	39700 to 41540	39700, 40620, 41540	10MHz	64QAM	Full RB
	39725 to 41515	39725, 40620, 41515	15MHz	64QAM	Full RB
	39750 to 41490	39750, 40620, 41490	20MHz	64QAM	Full RB
CONDUCTED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB, 0 RB Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB, 0 RB Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB, 0 RB Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB, 0 RB Offset
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK,	1 RB/ 0,24 RB Offset 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK,	1 RB/ 0,49 RB Offset 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK,	1 RB/ 0,74 RB Offset 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK,	1 RB/ 0,99 RB Offset 100 RB/ 0 Offset
RADIATED EMISSION	39700 to 41540	39700, 40620, 41540	10MHz	16QAM	125 RB, 12 RB Offset

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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, 64QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	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, 64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	64QAM	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

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CONDCUDED 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. MAXMUM OUTPUT POWER

6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046

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

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

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

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

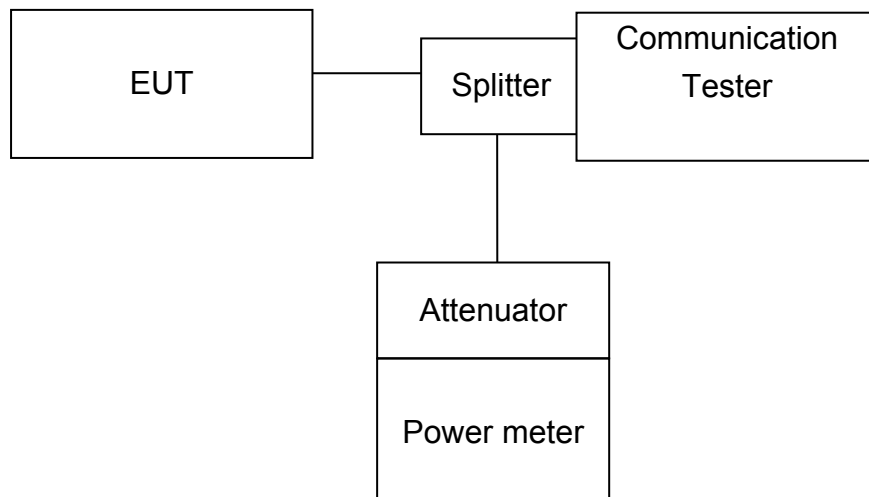
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

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

6.2. Test Set-up



Note: Measurement setup for testing on Antenna connector

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6.3. Measurement Procedure

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

The Procedure of KDB941225 (SAR Measurement Procedures for 3G devices, (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.

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.

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6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Radio Communication Analyser	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29

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6.5. Measurement Result

RF Conducted Output Power

WCDMA MODE:

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

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.92	-5.76	18.16	33.00	-14.84
	1880.0	9400	23.76	-5.76	18.00	33.00	-15.00
	1907.6	9538	23.99	-5.76	18.23	33.00	-14.77
HSDPA	1852.4	9262	23.68	-5.76	17.92	33.00	-15.08
	1880.0	9400	23.75	-5.76	17.99	33.00	-15.01
	1907.6	9538	23.98	-5.76	18.22	33.00	-14.78
HSUPA	1852.4	9262	23.29	-5.76	17.53	33.00	-15.47
	1880.0	9400	23.21	-5.76	17.45	33.00	-15.55
	1907.6	9538	23.26	-5.76	17.50	33.00	-15.50

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.68	-5.78	17.90	30.00	-12.10
	1732.6	1413	23.84	-5.78	18.06	30.00	-11.94
	1752.6	1513	23.79	-5.78	18.01	30.00	-11.99
HSDPA	1712.4	1312	23.63	-5.78	17.85	30.00	-12.15
	1732.6	1413	23.83	-5.78	18.05	30.00	-11.95
	1752.6	1513	23.78	-5.78	18.00	30.00	-12.00
HSUPA	1712.4	1312	23.14	-5.78	17.36	30.00	-12.64
	1732.6	1413	23.28	-5.78	17.50	30.00	-12.50
	1752.6	1513	23.23	-5.78	17.45	30.00	-12.55

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.75	-4.74	19.01	38.50	-19.49
	836.6	4183	23.85	-4.74	19.11	38.50	-19.39
	846.6	4233	23.98	-4.74	19.24	38.50	-19.26
HSDPA	826.4	4132	23.74	-4.74	19.00	38.50	-19.50
	836.6	4183	23.84	-4.74	19.10	38.50	-19.40
	846.6	4233	23.94	-4.74	19.20	38.50	-19.30
HSUPA	826.4	4132	22.56	-4.74	17.82	38.50	-20.68
	836.6	4183	22.71	-4.74	17.97	38.50	-20.53
	846.6	4233	22.77	-4.74	18.03	38.50	-20.47

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HSDPA Release 6 MODE:

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

HSDPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS} (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.

HSPA (HSDPA & HSUPA) Release 6 MODE

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

HSPA SUB-TEST Setting

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

Sub-test	β_c	β_d	β_d (SF)	β_c/β_d	β_{HS}	β_{ec}	β_{ed}	β_{ed} (SF)	β_{ed} (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	β_{ed1} : 47/15 β_{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		
		9262.00	9400.00	9538.00
HSDPA II	1	23.68	23.75	23.98
	2	22.71	22.70	22.82
	3	22.24	22.26	22.34
	4	21.96	21.96	22.05

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	23.63	23.83	23.78
	2	22.66	22.79	22.77
	3	22.16	22.31	22.27
	4	21.94	22.03	22.02

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.74	23.84	23.94
	2	22.63	22.76	22.79
	3	22.07	22.26	22.16
	4	21.89	21.99	21.94

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	23.29	23.21	23.26
	2	23.81	23.72	23.80
	3	22.25	22.26	22.23
	4	23.90	23.74	23.82
	5	22.78	22.72	22.74

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	23.14	23.28	23.23
	2	23.67	23.80	23.72
	3	22.15	22.31	22.27
	4	23.66	23.82	23.77
	5	22.68	22.80	22.76

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	22.56	22.71	22.77
	2	20.38	20.36	20.37
	3	21.05	21.11	21.10
	4	20.57	20.64	20.62
	5	22.60	22.80	22.70

WCDMA/HSDPA/HSUPA band II, IV, V

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

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LTE Result:

Antenna gain (dBi) -5.33

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	23.31	17.98	33	-15.02
				1	5	23.30	17.97	33	-15.03
				3	2	22.99	17.66	33	-15.34
				6	0	22.33	17.00	33	-16
	18900	1880	QPSK	1	0	23.33	18.00	33	-15
				1	5	23.21	17.88	33	-15.12
				3	2	22.91	17.58	33	-15.42
				6	0	22.20	16.87	33	-16.13
	19193	1909.3	QPSK	1	0	23.22	17.89	33	-15.11
				1	5	22.91	17.58	33	-15.42
				3	2	23.00	17.67	33	-15.33
				6	0	22.09	16.76	33	-16.24
	18607	1850.7	16QAM	1	0	22.34	17.01	33	-15.99
				1	5	22.11	16.78	33	-16.22
				3	2	21.95	16.62	33	-16.38
				6	0	21.44	16.11	33	-16.89
	18900	1880	16QAM	1	0	22.22	16.89	33	-16.11
				1	5	22.41	17.08	33	-15.92
				3	2	21.98	16.65	33	-16.35
				6	0	21.22	15.89	33	-17.11
	19193	1909.3	16QAM	1	0	22.27	16.94	33	-16.06
				1	5	22.36	17.03	33	-15.97
				3	2	21.91	16.58	33	-16.42
				6	0	21.00	15.67	33	-17.33
	18607	1850.7	64QAM	1	0	22.88	17.55	33	-15.45
				1	5	22.28	16.95	33	-16.05
				3	2	21.31	15.98	33	-17.02
				6	0	21.45	16.12	33	-16.88
	18900	1880	64QAM	1	0	22.15	16.82	33	-16.18
				1	5	21.96	16.63	33	-16.37
				3	2	21.14	15.81	33	-17.19
				6	0	21.29	15.96	33	-17.04
	19193	1909.3	64QAM	1	0	22.17	16.84	33	-16.16
				1	5	22.42	17.09	33	-15.91
				3	2	21.13	15.80	33	-17.2
				6	0	21.17	15.84	33	-17.16

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Antenna gain (dBi) -5.33

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	23.20	17.87	33	-15.13
				1	14	23.32	17.99	33	-15.01
				8	4	22.29	16.96	33	-16.04
				15	0	22.36	17.03	33	-15.97
	18900	1880	QPSK	1	0	23.35	18.02	33	-14.98
				1	14	23.11	17.78	33	-15.22
				8	4	22.18	16.85	33	-16.15
				15	0	22.20	16.87	33	-16.13
	19185	1908.5	QPSK	1	0	22.99	17.66	33	-15.34
				1	14	22.90	17.57	33	-15.43
				8	4	22.17	16.84	33	-16.16
				15	0	22.13	16.80	33	-16.2
	18615	1851.5	16QAM	1	0	22.75	17.42	33	-15.58
				1	14	21.97	16.64	33	-16.36
				8	4	21.27	15.94	33	-17.06
				15	0	21.26	15.93	33	-17.07
	18900	1880	16QAM	1	0	22.59	17.26	33	-15.74
				1	14	22.02	16.69	33	-16.31
				8	4	21.21	15.88	33	-17.12
				15	0	21.24	15.91	33	-17.09
	19185	1908.5	16QAM	1	0	22.01	16.68	33	-16.32
				1	14	22.16	16.83	33	-16.17
				8	4	21.10	15.77	33	-17.23
				15	0	21.08	15.75	33	-17.25
	18615	1851.5	64QAM	1	0	22.71	17.38	33	-15.62
				1	14	21.93	16.60	33	-16.4
				8	4	21.24	15.91	33	-17.09
				15	0	21.23	15.90	33	-17.1
	18900	1880	64QAM	1	0	22.55	17.22	33	-15.78
				1	14	22.01	16.68	33	-16.32
				8	4	21.12	15.79	33	-17.21
				15	0	21.15	15.82	33	-17.18
	19185	1908.5	64QAM	1	0	22.00	16.67	33	-16.33
				1	14	22.13	16.80	33	-16.2
				8	4	21.02	15.69	33	-17.31
				15	0	21.07	15.74	33	-17.26

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Antenna gain (dBi) -5.33

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	23.29	17.96	33	-15.04
				1	24	23.34	18.01	33	-14.99
				12	6	22.57	17.24	33	-15.76
				25	0	22.44	17.11	33	-15.89
	18900	1880	QPSK	1	0	23.37	18.04	33	-14.96
				1	24	23.15	17.82	33	-15.18
				12	6	22.37	17.04	33	-15.96
				25	0	22.32	16.99	33	-16.01
	19175	1907.5	QPSK	1	0	23.33	18.00	33	-15
				1	24	22.86	17.53	33	-15.47
				12	6	22.28	16.95	33	-16.05
				25	0	22.35	17.02	33	-15.98
	18625	1852.5	16QAM	1	0	22.43	17.10	33	-15.9
				1	24	22.85	17.52	33	-15.48
				12	6	21.53	16.20	33	-16.8
				25	0	21.57	16.24	33	-16.76
	18900	1880	16QAM	1	0	22.36	17.03	33	-15.97
				1	24	22.11	16.78	33	-16.22
				12	6	21.32	15.99	33	-17.01
				25	0	21.29	15.96	33	-17.04
	19175	1907.5	16QAM	1	0	22.47	17.14	33	-15.86
				1	24	22.22	16.89	33	-16.11
				12	6	21.29	15.96	33	-17.04
				25	0	21.28	15.95	33	-17.05
	18625	1852.5	64QAM	1	0	22.87	17.54	33	-15.46
				1	24	22.20	16.87	33	-16.13
				12	6	21.34	16.01	33	-16.99
				25	0	21.31	15.98	33	-17.02
	18900	1880	64QAM	1	0	22.23	16.90	33	-16.1
				1	24	21.82	16.49	33	-16.51
				12	6	21.11	15.78	33	-17.22
				25	0	21.10	15.77	33	-17.23
	19175	1907.5	64QAM	1	0	22.23	16.90	33	-16.1
				1	24	22.32	16.99	33	-16.01
				12	6	20.95	15.62	33	-17.38
				25	0	21.14	15.81	33	-17.19

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Antenna gain (dBi) -5.33

LTE Band 2_ Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	23.33	18.00	33	-15
				1	49	23.54	18.21	33	-14.79
				25	12	22.49	17.16	33	-15.84
				50	0	22.44	17.11	33	-15.89
	18900	1880	QPSK	1	0	23.55	18.22	33	-14.78
				1	49	23.14	17.81	33	-15.19
				25	12	22.27	16.94	33	-16.06
				50	0	22.23	16.90	33	-16.1
	19150	1905	QPSK	1	0	23.02	17.69	33	-15.31
				1	49	23.11	17.78	33	-15.22
				25	12	22.18	16.85	33	-16.15
				50	0	22.27	16.94	33	-16.06
	18650	1855	16QAM	1	0	22.18	16.85	33	-16.15
				1	49	22.71	17.38	33	-15.62
				25	12	21.59	16.26	33	-16.74
				50	0	21.55	16.22	33	-16.78
	18900	1880	16QAM	1	0	22.34	17.01	33	-15.99
				1	49	22.07	16.74	33	-16.26
				25	12	21.40	16.07	33	-16.93
				50	0	21.14	15.81	33	-17.19
	19150	1905	16QAM	1	0	22.35	17.02	33	-15.98
				1	49	22.58	17.25	33	-15.75
				25	12	21.31	15.98	33	-17.02
				50	0	21.24	15.91	33	-17.09
	18650	1855	64QAM	1	0	22.73	17.40	33	-15.6
				1	49	22.12	16.79	33	-16.21
				25	12	21.50	16.17	33	-16.83
				50	0	21.29	15.96	33	-17.04
	18900	1880	64QAM	1	0	22.17	16.84	33	-16.16
				1	49	21.88	16.55	33	-16.45
				25	12	21.11	15.78	33	-17.22
				50	0	21.13	15.80	33	-17.2
	19150	1905	64QAM	1	0	22.21	16.88	33	-16.12
				1	49	22.40	17.07	33	-15.93
				25	12	21.03	15.70	33	-17.3
				50	0	21.11	15.78	33	-17.22

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Antenna gain (dBi) -5.33

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.37	18.04	33	-14.96
				1	74	23.27	17.94	33	-15.06
				36	18	22.37	17.04	33	-15.96
				75	0	22.42	17.09	33	-15.91
	18900	1880	QPSK	1	0	23.38	18.05	33	-14.95
				1	74	22.98	17.65	33	-15.35
				36	18	22.33	17.00	33	-16
				75	0	22.26	16.93	33	-16.07
	19125	1902.5	QPSK	1	0	23.15	17.82	33	-15.18
				1	74	23.30	17.97	33	-15.03
				36	18	22.17	16.84	33	-16.16
				75	0	22.23	16.90	33	-16.1
	18675	1857.5	16QAM	1	0	22.96	17.63	33	-15.37
				1	74	22.19	16.86	33	-16.14
				36	18	21.40	16.07	33	-16.93
				75	0	21.44	16.11	33	-16.89
	18900	1880	16QAM	1	0	22.59	17.26	33	-15.74
				1	74	22.34	17.01	33	-15.99
				36	18	21.31	15.98	33	-17.02
				75	0	21.25	15.92	33	-17.08
	19125	1902.5	16QAM	1	0	22.43	17.10	33	-15.9
				1	74	22.24	16.91	33	-16.09
				36	18	21.26	15.93	33	-17.07
				75	0	21.22	15.89	33	-17.11
	18675	1857.5	64QAM	1	0	22.85	17.52	33	-15.48
				1	74	22.20	16.87	33	-16.13
				36	18	21.42	16.09	33	-16.91
				75	0	21.39	16.06	33	-16.94
	18900	1880	64QAM	1	0	22.18	16.85	33	-16.15
				1	74	21.87	16.54	33	-16.46
				36	18	21.25	15.92	33	-17.08
				75	0	21.15	15.82	33	-17.18
	19125	1902.5	64QAM	1	0	22.21	16.88	33	-16.12
				1	74	22.35	17.02	33	-15.98
				36	18	21.08	15.75	33	-17.25
				75	0	21.13	15.80	33	-17.2

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Antenna gain (dBi) -5.33

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	23.56	18.23	33	-14.77
				1	99	23.18	17.85	33	-15.15
				50	25	22.45	17.12	33	-15.88
				100	0	22.46	17.13	33	-15.87
	18900	1880	QPSK	1	0	23.46	18.13	33	-14.87
				1	99	23.19	17.86	33	-15.14
				50	25	22.22	16.89	33	-16.11
				100	0	22.11	16.78	33	-16.22
	19100	1900	QPSK	1	0	23.35	18.02	33	-14.98
				1	99	23.04	17.71	33	-15.29
				50	25	22.15	16.82	33	-16.18
				100	0	22.25	16.92	33	-16.08
	18700	1860	16QAM	1	0	22.92	17.59	33	-15.41
				1	99	22.29	16.96	33	-16.04
				50	25	21.51	16.18	33	-16.82
				100	0	21.48	16.15	33	-16.85
	18900	1880	16QAM	1	0	22.35	17.02	33	-15.98
				1	99	21.98	16.65	33	-16.35
				50	25	21.27	15.94	33	-17.06
				100	0	21.30	15.97	33	-17.03
	19100	1900	16QAM	1	0	22.23	16.90	33	-16.1
				1	99	22.44	17.11	33	-15.89
				50	25	21.14	15.81	33	-17.19
				100	0	21.25	15.92	33	-17.08
	18700	1860	64QAM	1	0	22.79	17.46	33	-15.54
				1	99	22.18	16.85	33	-16.15
				50	25	21.42	16.09	33	-16.91
				100	0	21.30	15.97	33	-17.03
	18900	1880	64QAM	1	0	22.34	17.01	33	-15.99
				1	99	21.84	16.51	33	-16.49
				50	25	21.25	15.92	33	-17.08
				100	0	21.23	15.90	33	-17.1
	19100	1900	64QAM	1	0	22.15	16.82	33	-16.18
				1	99	22.27	16.94	33	-16.06
				50	25	21.00	15.67	33	-17.33
				100	0	21.09	15.76	33	-17.24

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Antenna gain (dBi) -5.34

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.01	17.67	30	-12.33
				1	5	23.12	17.78	30	-12.22
				3	2	22.91	17.57	30	-12.43
				6	0	22.14	16.80	30	-13.2
	20175	1732.5	QPSK	1	0	23.12	17.78	30	-12.22
				1	5	23.13	17.79	30	-12.21
				3	2	22.93	17.59	30	-12.41
				6	0	22.16	16.82	30	-13.18
	20393	1754.3	QPSK	1	0	23.15	17.81	30	-12.19
				1	5	23.02	17.68	30	-12.32
				3	2	22.90	17.56	30	-12.44
				6	0	22.08	16.74	30	-13.26
	19957	1710.7	16QAM	1	0	22.19	16.85	30	-13.15
				1	5	22.32	16.98	30	-13.02
				3	2	21.96	16.62	30	-13.38
				6	0	21.22	15.88	30	-14.12
	20175	1732.5	16QAM	1	0	22.32	16.98	30	-13.02
				1	5	22.24	16.90	30	-13.1
				3	2	21.92	16.58	30	-13.42
				6	0	21.29	15.95	30	-14.05
	20393	1754.3	16QAM	1	0	22.52	17.18	30	-12.82
				1	5	22.68	17.34	30	-12.66
				3	2	21.90	16.56	30	-13.44
				6	0	21.21	15.87	30	-14.13
	19957	1710.7	64QAM	1	0	22.79	17.45	30	-12.55
				1	5	22.77	17.43	30	-12.57
				3	2	21.03	15.69	30	-14.31
				6	0	21.17	15.83	30	-14.17
	20175	1732.5	64QAM	1	0	22.76	17.42	30	-12.58
				1	5	22.16	16.82	30	-13.18
				3	2	21.15	15.81	30	-14.19
				6	0	21.04	15.70	30	-14.3
	20393	1754.3	64QAM	1	0	22.81	17.47	30	-12.53
				1	5	22.31	16.97	30	-13.03
				3	2	21.11	15.77	30	-14.23
				6	0	21.14	15.80	30	-14.2

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Antenna gain (dBi) -5.34

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.06	17.72	30	-12.28
				1	14	22.89	17.55	30	-12.45
				8	4	22.13	16.79	30	-13.21
				15	0	22.09	16.75	30	-13.25
	20175	1732.5	QPSK	1	0	23.06	17.72	30	-12.28
				1	14	23.03	17.69	30	-12.31
				8	4	22.13	16.79	30	-13.21
				15	0	22.13	16.79	30	-13.21
	20385	1753.5	QPSK	1	0	23.10	17.76	30	-12.24
				1	14	23.07	17.73	30	-12.27
				8	4	22.06	16.72	30	-13.28
				15	0	22.07	16.73	30	-13.27
	19965	1711.5	16QAM	1	0	22.83	17.49	30	-12.51
				1	14	22.16	16.82	30	-13.18
				8	4	21.15	15.81	30	-14.19
				15	0	21.12	15.78	30	-14.22
	20175	1732.5	16QAM	1	0	21.93	16.59	30	-13.41
				1	14	22.41	17.07	30	-12.93
				8	4	21.17	15.83	30	-14.17
				15	0	21.12	15.78	30	-14.22
	20385	1753.5	16QAM	1	0	22.76	17.42	30	-12.58
				1	14	22.39	17.05	30	-12.95
				8	4	21.14	15.80	30	-14.2
				15	0	21.01	15.67	30	-14.33
	19965	1711.5	64QAM	1	0	22.77	17.43	30	-12.57
				1	14	22.80	17.46	30	-12.54
				8	4	21.02	15.68	30	-14.32
				15	0	21.12	15.78	30	-14.22
	20175	1732.5	64QAM	1	0	22.66	17.32	30	-12.68
				1	14	22.19	16.85	30	-13.15
				8	4	21.21	15.87	30	-14.13
				15	0	21.03	15.69	30	-14.31
	20385	1753.5	64QAM	1	0	22.71	17.37	30	-12.63
				1	14	22.27	16.93	30	-13.07
				8	4	21.22	15.88	30	-14.12
				15	0	21.19	15.85	30	-14.15

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Antenna gain (dBi) -5.34

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.06	17.72	30	-12.28
				1	24	23.27	17.93	30	-12.07
				12	6	22.16	16.82	30	-13.18
				25	0	22.16	16.82	30	-13.18
	20175	1732.5	QPSK	1	0	23.01	17.67	30	-12.33
				1	24	23.13	17.79	30	-12.21
				12	6	22.18	16.84	30	-13.16
				25	0	22.17	16.83	30	-13.17
	20375	1752.5	QPSK	1	0	23.12	17.78	30	-12.22
				1	24	23.05	17.71	30	-12.29
				12	6	22.19	16.85	30	-13.15
				25	0	22.13	16.79	30	-13.21
	19975	1712.5	16QAM	1	0	22.66	17.32	30	-12.68
				1	24	22.62	17.28	30	-12.72
				12	6	21.30	15.96	30	-14.04
				25	0	21.14	15.80	30	-14.2
	20175	1732.5	16QAM	1	0	22.40	17.06	30	-12.94
				1	24	22.20	16.86	30	-13.14
				12	6	21.46	16.12	30	-13.88
				25	0	21.27	15.93	30	-14.07
	20375	1752.5	16QAM	1	0	22.41	17.07	30	-12.93
				1	24	22.50	17.16	30	-12.84
				12	6	21.41	16.07	30	-13.93
				25	0	21.29	15.95	30	-14.05
	19975	1712.5	64QAM	1	0	22.86	17.52	30	-12.48
				1	24	22.76	17.42	30	-12.58
				12	6	21.19	15.85	30	-14.15
				25	0	21.27	15.93	30	-14.07
	20175	1732.5	64QAM	1	0	22.65	17.31	30	-12.69
				1	24	22.22	16.88	30	-13.12
				12	6	21.05	15.71	30	-14.29
				25	0	21.01	15.67	30	-14.33
	20375	1752.5	64QAM	1	0	22.69	17.35	30	-12.65
				1	24	22.26	16.92	30	-13.08
				12	6	21.08	15.74	30	-14.26
				25	0	21.19	15.85	30	-14.15

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Antenna gain (dBi) -5.34

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.33	17.99	30	-12.01
				1	49	23.21	17.87	30	-12.13
				25	12	22.17	16.83	30	-13.17
				50	0	22.20	16.86	30	-13.14
	20175	1732.5	QPSK	1	0	23.34	18.00	30	-12
				1	49	23.10	17.76	30	-12.24
				25	12	22.09	16.75	30	-13.25
				50	0	22.09	16.75	30	-13.25
	20375	1750	QPSK	1	0	23.26	17.92	30	-12.08
				1	49	23.42	18.08	30	-11.92
				25	12	22.10	16.76	30	-13.24
				50	0	22.09	16.75	30	-13.25
	20000	1715	16QAM	1	0	22.37	17.03	30	-12.97
				1	49	22.80	17.46	30	-12.54
				25	12	21.29	15.95	30	-14.05
				50	0	21.22	15.88	30	-14.12
	20175	1732.5	16QAM	1	0	22.30	16.96	30	-13.04
				1	49	22.55	17.21	30	-12.79
				25	12	21.15	15.81	30	-14.19
				50	0	21.09	15.75	30	-14.25
	20375	1750	16QAM	1	0	22.44	17.10	30	-12.9
				1	49	22.21	16.87	30	-13.13
				25	12	21.19	15.85	30	-14.15
				50	0	21.16	15.82	30	-14.18
	20000	1715	64QAM	1	0	22.72	17.38	30	-12.62
				1	49	22.81	17.47	30	-12.53
				25	12	21.14	15.80	30	-14.2
				50	0	21.22	15.88	30	-14.12
	20175	1732.5	64QAM	1	0	22.68	17.34	30	-12.66
				1	49	22.19	16.85	30	-13.15
				25	12	21.04	15.70	30	-14.3
				50	0	21.20	15.86	30	-14.14
	20375	1750	64QAM	1	0	22.84	17.50	30	-12.5
				1	49	22.43	17.09	30	-12.91
				25	12	21.15	15.81	30	-14.19
				50	0	21.07	15.73	30	-14.27

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Antenna gain (dBi) -5.34

LTE Band 4_ Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.34	18.00	30	-12
				1	74	23.15	17.81	30	-12.19
				36	18	22.17	16.83	30	-13.17
				75	0	22.12	16.78	30	-13.22
	20175	1732.5	QPSK	1	0	23.19	17.85	30	-12.15
				1	74	23.07	17.73	30	-12.27
				36	18	22.12	16.78	30	-13.22
				75	0	22.18	16.84	30	-13.16
	20325	1747.5	QPSK	1	0	23.19	17.85	30	-12.15
				1	74	23.20	17.86	30	-12.14
				36	18	22.12	16.78	30	-13.22
				75	0	22.13	16.79	30	-13.21
	20025	1717.5	16QAM	1	0	22.80	17.46	30	-12.54
				1	74	22.31	16.97	30	-13.03
				36	18	21.24	15.90	30	-14.1
				75	0	21.30	15.96	30	-14.04
	20175	1732.5	16QAM	1	0	22.85	17.51	30	-12.49
				1	74	22.76	17.42	30	-12.58
				36	18	21.15	15.81	30	-14.19
				75	0	21.19	15.85	30	-14.15
	20325	1747.5	16QAM	1	0	22.17	16.83	30	-13.17
				1	74	22.42	17.08	30	-12.92
				36	18	21.23	15.89	30	-14.11
				75	0	21.20	15.86	30	-14.14
	20025	1717.5	64QAM	1	0	22.90	17.56	30	-12.44
				1	74	22.76	17.42	30	-12.58
				36	18	21.13	15.79	30	-14.21
				75	0	21.26	15.92	30	-14.08
	20175	1732.5	64QAM	1	0	22.70	17.36	30	-12.64
				1	74	22.26	16.92	30	-13.08
				36	18	21.12	15.78	30	-14.22
				75	0	21.10	15.76	30	-14.24
	20325	1747.5	64QAM	1	0	22.72	17.38	30	-12.62
				1	74	22.38	17.04	30	-12.96
				36	18	21.05	15.71	30	-14.29
				75	0	21.04	15.70	30	-14.3

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Antenna gain (dBi) -5.34

LTE Band 4_ Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.28	17.94	30	-12.06
				1	99	23.18	17.84	30	-12.16
				50	25	22.17	16.83	30	-13.17
				100	0	22.21	16.87	30	-13.13
	20175	1732.5	QPSK	1	0	23.23	17.89	30	-12.11
				1	99	23.37	18.03	30	-11.97
				50	25	22.06	16.72	30	-13.28
				100	0	22.10	16.76	30	-13.24
	20300	1745	QPSK	1	0	23.23	17.89	30	-12.11
				1	99	23.16	17.82	30	-12.18
				50	25	22.15	16.81	30	-13.19
				100	0	22.18	16.84	30	-13.16
	20050	1720	16QAM	1	0	22.91	17.57	30	-12.43
				1	99	22.84	17.50	30	-12.5
				50	25	21.21	15.87	30	-14.13
				100	0	21.31	15.97	30	-14.03
	20175	1732.5	16QAM	1	0	22.79	17.45	30	-12.55
				1	99	22.32	16.98	30	-13.02
				50	25	21.22	15.88	30	-14.12
				100	0	21.20	15.86	30	-14.14
	20300	1745	16QAM	1	0	22.87	17.53	30	-12.47
				1	99	22.43	17.09	30	-12.91
				50	25	21.25	15.91	30	-14.09
				100	0	21.23	15.89	30	-14.11
	20050	1720	64QAM	1	0	22.75	17.41	30	-12.59
				1	99	22.72	17.38	30	-12.62
				50	25	21.15	15.81	30	-14.19
				100	0	21.24	15.90	30	-14.1
	20175	1732.5	64QAM	1	0	22.77	17.43	30	-12.57
				1	99	22.20	16.86	30	-13.14
				50	25	21.16	15.82	30	-14.18
				100	0	21.04	15.70	30	-14.3
	20300	1745	64QAM	1	0	22.75	17.41	30	-12.59
				1	99	22.32	16.98	30	-13.02
				50	25	21.21	15.87	30	-14.13
				100	0	21.18	15.84	30	-14.16

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Antenna gain (dBi) -4.74

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.05	16.16	18.31	38.45	-20.14
				1	5	23.10	16.21	18.36	38.45	-20.09
				3	2	23.06	16.17	18.32	38.45	-20.13
				6	0	22.01	15.12	17.27	38.45	-21.18
	20525	836.5	QPSK	1	0	23.08	16.19	18.34	38.45	-20.11
				1	5	23.07	16.18	18.33	38.45	-20.12
				3	2	23.08	16.19	18.34	38.45	-20.11
				6	0	22.10	15.21	17.36	38.45	-21.09
	20643	848.3	QPSK	1	0	23.25	16.36	18.51	38.45	-19.94
				1	5	23.17	16.28	18.43	38.45	-20.02
				3	2	23.11	16.22	18.37	38.45	-20.08
				6	0	22.15	15.26	17.41	38.45	-21.04
	20407	824.7	16QAM	1	0	22.04	15.15	17.30	38.45	-21.15
				1	5	22.42	15.53	17.68	38.45	-20.77
				3	2	21.97	15.08	17.23	38.45	-21.22
				6	0	21.04	14.15	16.30	38.45	-22.15
	20525	836.5	16QAM	1	0	22.43	15.54	17.69	38.45	-20.76
				1	5	22.12	15.23	17.38	38.45	-21.07
				3	2	22.04	15.15	17.30	38.45	-21.15
				6	0	21.19	14.30	16.45	38.45	-22
	20643	848.3	16QAM	1	0	22.52	15.63	17.78	38.45	-20.67
				1	5	22.74	15.85	18.00	38.45	-20.45
				3	2	22.11	15.22	17.37	38.45	-21.08
				6	0	21.07	14.18	16.33	38.45	-22.12
	20407	824.7	64QAM	1	0	22.51	15.62	17.77	38.45	-20.68
				1	5	22.37	15.48	17.63	38.45	-20.82
				3	2	21.09	14.20	16.35	38.45	-22.1
				6	0	21.02	14.13	16.28	38.45	-22.17
	20525	836.5	64QAM	1	0	22.63	15.74	17.89	38.45	-20.56
				1	5	22.44	15.55	17.70	38.45	-20.75
				3	2	21.19	14.30	16.45	38.45	-22
				6	0	21.15	14.26	16.41	38.45	-22.04
	20643	848.3	64QAM	1	0	22.50	15.61	17.76	38.45	-20.69
				1	5	22.32	15.43	17.58	38.45	-20.87
				3	2	21.11	14.22	16.37	38.45	-22.08
				6	0	21.06	14.17	16.32	38.45	-22.13

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Antenna gain (dBi) -4.74

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.05	16.16	18.31	38.45	-20.14
				1	14	23.03	16.14	18.29	38.45	-20.16
				8	4	22.07	15.18	17.33	38.45	-21.12
				15	0	22.04	15.15	17.30	38.45	-21.15
	20525	836.5	QPSK	1	0	23.18	16.29	18.44	38.45	-20.01
				1	14	23.04	16.15	18.30	38.45	-20.15
				8	4	22.06	15.17	17.32	38.45	-21.13
				15	0	22.09	15.20	17.35	38.45	-21.1
	20635	847.5	QPSK	1	0	23.15	16.26	18.41	38.45	-20.04
				1	14	23.17	16.28	18.43	38.45	-20.02
				8	4	22.19	15.30	17.45	38.45	-21
				15	0	22.15	15.26	17.41	38.45	-21.04
	20415	825.5	16QAM	1	0	22.46	15.57	17.72	38.45	-20.73
				1	14	22.50	15.61	17.76	38.45	-20.69
				8	4	21.14	14.25	16.40	38.45	-22.05
				15	0	21.09	14.20	16.35	38.45	-22.1
	20525	836.5	16QAM	1	0	22.32	15.43	17.58	38.45	-20.87
				1	14	22.12	15.23	17.38	38.45	-21.07
				8	4	21.18	14.29	16.44	38.45	-22.01
				15	0	21.08	14.19	16.34	38.45	-22.11
	20635	847.5	16QAM	1	0	22.39	15.50	17.65	38.45	-20.8
				1	14	22.13	15.24	17.39	38.45	-21.06
				8	4	21.25	14.36	16.51	38.45	-21.94
				15	0	21.23	14.34	16.49	38.45	-21.96
	20415	825.5	64QAM	1	0	22.43	15.54	17.69	38.45	-20.76
				1	14	22.34	15.45	17.60	38.45	-20.85
				8	4	21.08	14.19	16.34	38.45	-22.11
				15	0	21.03	14.14	16.29	38.45	-22.16
	20525	836.5	64QAM	1	0	22.62	15.73	17.88	38.45	-20.57
				1	14	22.39	15.50	17.65	38.45	-20.8
				8	4	21.10	14.21	16.36	38.45	-22.09
				15	0	21.13	14.24	16.39	38.45	-22.06
	20635	847.5	64QAM	1	0	22.48	15.59	17.74	38.45	-20.71
				1	14	22.33	15.44	17.59	38.45	-20.86
				8	4	21.19	14.30	16.45	38.45	-22
				15	0	21.16	14.27	16.42	38.45	-22.03

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Antenna gain (dBi) -4.74

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.06	16.17	18.32	38.45	-20.13
				1	24	23.05	16.16	18.31	38.45	-20.14
				12	6	22.15	15.26	17.41	38.45	-21.04
				25	0	22.11	15.22	17.37	38.45	-21.08
	20525	836.5	QPSK	1	0	23.13	16.24	18.39	38.45	-20.06
				1	24	23.33	16.44	18.59	38.45	-19.86
				12	6	22.15	15.26	17.41	38.45	-21.04
				25	0	22.10	15.21	17.36	38.45	-21.09
	20625	846.5	QPSK	1	0	23.05	16.16	18.31	38.45	-20.14
				1	24	23.13	16.24	18.39	38.45	-20.06
				12	6	22.16	15.27	17.42	38.45	-21.03
				25	0	22.24	15.35	17.50	38.45	-20.95
	20425	826.5	16QAM	1	0	22.30	15.41	17.56	38.45	-20.89
				1	24	22.17	15.28	17.43	38.45	-21.02
				12	6	21.31	14.42	16.57	38.45	-21.88
				25	0	21.12	14.23	16.38	38.45	-22.07
	20525	836.5	16QAM	1	0	22.34	15.45	17.60	38.45	-20.85
				1	24	22.44	15.55	17.70	38.45	-20.75
				12	6	21.21	14.32	16.47	38.45	-21.98
				25	0	21.28	14.39	16.54	38.45	-21.91
	20625	846.5	16QAM	1	0	22.75	15.86	18.01	38.45	-20.44
				1	24	22.39	15.50	17.65	38.45	-20.8
				12	6	21.30	14.41	16.56	38.45	-21.89
				25	0	21.24	14.35	16.50	38.45	-21.95
	20425	826.5	64QAM	1	0	22.42	15.53	17.68	38.45	-20.77
				1	24	22.33	15.44	17.59	38.45	-20.86
				12	6	21.05	14.16	16.31	38.45	-22.14
				25	0	21.03	14.14	16.29	38.45	-22.16
	20525	836.5	64QAM	1	0	22.60	15.71	17.86	38.45	-20.59
				1	24	22.46	15.57	17.72	38.45	-20.73
				12	6	21.10	14.21	16.36	38.45	-22.09
				25	0	21.09	14.20	16.35	38.45	-22.1
	20625	846.5	64QAM	1	0	22.45	15.56	17.71	38.45	-20.74
				1	24	22.29	15.40	17.55	38.45	-20.9
				12	6	21.08	14.19	16.34	38.45	-22.11
				25	0	21.12	14.23	16.38	38.45	-22.07

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Antenna gain (dBi) -4.74

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.15	16.26	18.41	38.45	-20.04
				1	49	23.03	16.14	18.29	38.45	-20.16
				25	12	22.02	15.13	17.28	38.45	-21.17
				50	0	22.06	15.17	17.32	38.45	-21.13
	20525	836.5	QPSK	1	0	23.26	16.37	18.52	38.45	-19.93
				1	49	23.32	16.43	18.58	38.45	-19.87
				25	12	22.11	15.22	17.37	38.45	-21.08
				50	0	22.13	15.24	17.39	38.45	-21.06
	20600	844	QPSK	1	0	23.45	16.56	18.71	38.45	-19.74
				1	49	23.39	16.50	18.65	38.45	-19.8
				25	12	22.21	15.32	17.47	38.45	-20.98
				50	0	22.21	15.32	17.47	38.45	-20.98
	20450	829	16QAM	1	0	22.52	15.63	17.78	38.45	-20.67
				1	49	22.39	15.50	17.65	38.45	-20.8
				25	12	21.01	14.12	16.27	38.45	-22.18
				50	0	21.03	14.14	16.29	38.45	-22.16
	20525	836.5	16QAM	1	0	22.66	15.77	17.92	38.45	-20.53
				1	49	22.53	15.64	17.79	38.45	-20.66
				25	12	21.29	14.40	16.55	38.45	-21.9
				50	0	21.16	14.27	16.42	38.45	-22.03
	20600	844	16QAM	1	0	22.57	15.68	17.83	38.45	-20.62
				1	49	22.36	15.47	17.62	38.45	-20.83
				25	12	21.24	14.35	16.50	38.45	-21.95
				50	0	21.25	14.36	16.51	38.45	-21.94
	20450	829	64QAM	1	0	22.33	15.44	17.59	38.45	-20.86
				1	49	22.30	15.41	17.56	38.45	-20.89
				25	12	21.04	14.15	16.30	38.45	-22.15
				50	0	21.06	14.17	16.32	38.45	-22.13
	20525	836.5	64QAM	1	0	22.61	15.72	17.87	38.45	-20.58
				1	49	22.39	15.50	17.65	38.45	-20.8
				25	12	21.17	14.28	16.43	38.45	-22.02
				50	0	21.07	14.18	16.33	38.45	-22.12
	20600	844	64QAM	1	0	22.56	15.67	17.82	38.45	-20.63
				1	49	22.20	15.31	17.46	38.45	-20.99
				25	12	21.21	14.32	16.47	38.45	-21.98
				50	0	21.23	14.34	16.49	38.45	-21.96

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Antenna gain (dBi) -3.15

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	23.35	20.20	33	-12.8
				1	24	23.31	20.16	33	-12.84
				12	6	22.27	19.12	33	-13.88
				25	0	22.28	19.13	33	-13.87
	21100	2535	QPSK	1	0	22.95	19.80	33	-13.2
				1	24	23.10	19.95	33	-13.05
				12	6	21.88	18.73	33	-14.27
				25	0	21.94	18.79	33	-14.21
	21375	2567.5	QPSK	1	0	22.71	19.56	33	-13.44
				1	24	22.74	19.59	33	-13.41
				12	6	21.68	18.53	33	-14.47
				25	0	21.69	18.54	33	-14.46
	20775	2502.5	16QAM	1	0	22.57	19.42	33	-13.58
				1	24	22.98	19.83	33	-13.17
				12	6	21.33	18.18	33	-14.82
				25	0	21.25	18.10	33	-14.9
	21100	2535	16QAM	1	0	22.01	18.86	33	-14.14
				1	24	22.28	19.13	33	-13.87
				12	6	20.93	17.78	33	-15.22
				25	0	20.88	17.73	33	-15.27
	21375	2567.5	16QAM	1	0	21.70	18.55	33	-14.45
				1	24	21.87	18.72	33	-14.28
				12	6	20.72	17.57	33	-15.43
				25	0	20.73	17.58	33	-15.42
	20775	2502.5	64QAM	1	0	22.44	19.29	33	-13.71
				1	24	22.28	19.13	33	-13.87
				12	6	21.30	18.15	33	-14.85
				25	0	21.54	18.39	33	-14.61
	21100	2535	64QAM	1	0	22.27	19.12	33	-13.88
				1	24	22.53	19.38	33	-13.62
				12	6	21.12	17.97	33	-15.03
				25	0	21.25	18.10	33	-14.9
	21375	2567.5	64QAM	1	0	22.65	19.50	33	-13.5
				1	24	22.14	18.99	33	-14.01
				12	6	20.95	17.80	33	-15.2
				25	0	20.98	17.83	33	-15.17

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Antenna gain (dBi) -3.15

LTE Band 7 Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.59	20.44	33	-12.56
				1	49	23.56	20.41	33	-12.59
				25	12	22.61	19.46	33	-13.54
				50	0	22.65	19.50	33	-13.5
	21100	2535	QPSK	1	0	23.34	20.19	33	-12.81
				1	49	23.31	20.16	33	-12.84
				25	12	22.26	19.11	33	-13.89
				50	0	22.26	19.11	33	-13.89
	21350	2565	QPSK	1	0	22.97	19.82	33	-13.18
				1	49	23.00	19.85	33	-13.15
				25	12	21.93	18.78	33	-14.22
				50	0	21.97	18.82	33	-14.18
	20800	2505	16QAM	1	0	22.88	19.73	33	-13.27
				1	49	22.68	19.53	33	-13.47
				25	12	21.59	18.44	33	-14.56
				50	0	21.59	18.44	33	-14.56
	21100	2535	16QAM	1	0	22.71	19.56	33	-13.44
				1	49	22.73	19.58	33	-13.42
				25	12	21.31	18.16	33	-14.84
				50	0	21.32	18.17	33	-14.83
	21350	2565	16QAM	1	0	22.23	19.08	33	-13.92
				1	49	22.09	18.94	33	-14.06
				25	12	20.92	17.77	33	-15.23
				50	0	21.00	17.85	33	-15.15
	20800	2505	64QAM	1	0	22.32	19.17	33	-13.83
				1	49	22.22	19.07	33	-13.93
				25	12	21.43	18.28	33	-14.72
				50	0	21.52	18.37	33	-14.63
	21100	2535	64QAM	1	0	22.28	19.13	33	-13.87
				1	49	22.54	19.39	33	-13.61
				25	12	21.17	18.02	33	-14.98
				50	0	21.09	17.94	33	-15.06
	21350	2565	64QAM	1	0	22.57	19.42	33	-13.58
				1	49	22.02	18.87	33	-14.13
				25	12	20.90	17.75	33	-15.25
				50	0	20.90	17.75	33	-15.25

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Antenna gain (dBi) -3.15

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	23.44	20.29	33	-12.71
				1	74	23.45	20.30	33	-12.7
				36	18	22.63	19.48	33	-13.52
				75	0	22.64	19.49	33	-13.51
	21100	2535	QPSK	1	0	23.21	20.06	33	-12.94
				1	74	23.32	20.17	33	-12.83
				36	18	22.25	19.10	33	-13.9
				75	0	22.29	19.14	33	-13.86
	21375	2562.5	QPSK	1	0	23.00	19.85	33	-13.15
				1	74	23.03	19.88	33	-13.12
				36	18	22.02	18.87	33	-14.13
				75	0	22.06	18.91	33	-14.09
	20825	2507.5	16QAM	1	0	22.96	19.81	33	-13.19
				1	74	22.58	19.43	33	-13.57
				36	18	21.63	18.48	33	-14.52
				75	0	21.65	18.50	33	-14.5
	21100	2535	16QAM	1	0	22.27	19.12	33	-13.88
				1	74	22.45	19.30	33	-13.7
				36	18	21.18	18.03	33	-14.97
				75	0	21.27	18.12	33	-14.88
	21375	2562.5	16QAM	1	0	22.43	19.28	33	-13.72
				1	74	22.01	18.86	33	-14.14
				36	18	21.05	17.90	33	-15.1
				75	0	21.06	17.91	33	-15.09
	20825	2507.5	64QAM	1	0	22.42	19.27	33	-13.73
				1	74	22.20	19.05	33	-13.95
				36	18	21.38	18.23	33	-14.77
				75	0	21.39	18.24	33	-14.76
	21100	2535	64QAM	1	0	22.26	19.11	33	-13.89
				1	74	22.48	19.33	33	-13.67
				36	18	21.17	18.02	33	-14.98
				75	0	21.20	18.05	33	-14.95
	21375	2562.5	64QAM	1	0	22.61	19.46	33	-13.54
				1	74	22.17	19.02	33	-13.98
				36	18	20.92	17.77	33	-15.23
				75	0	20.86	17.71	33	-15.29

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Antenna gain (dBi) -3.15

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	23.63	20.48	33	-12.52
				1	99	23.17	20.02	33	-12.98
				50	25	22.55	19.40	33	-13.6
				100	0	22.60	19.45	33	-13.55
	21100	2535	QPSK	1	0	23.32	20.17	33	-12.83
				1	99	23.34	20.19	33	-12.81
				50	25	22.21	19.06	33	-13.94
				100	0	22.22	19.07	33	-13.93
	21350	2560	QPSK	1	0	23.22	20.07	33	-12.93
				1	99	22.88	19.73	33	-13.27
				50	25	22.00	18.85	33	-14.15
				100	0	22.06	18.91	33	-14.09
	20850	2510	16QAM	1	0	22.45	19.30	33	-13.7
				1	99	22.39	19.24	33	-13.76
				50	25	21.47	18.32	33	-14.68
				100	0	21.55	18.40	33	-14.6
	21100	2535	16QAM	1	0	22.34	19.19	33	-13.81
				1	99	22.67	19.52	33	-13.48
				50	25	21.22	18.07	33	-14.93
				100	0	21.29	18.14	33	-14.86
	21350	2560	16QAM	1	0	22.65	19.50	33	-13.5
				1	99	22.22	19.07	33	-13.93
				50	25	21.02	17.87	33	-15.13
				100	0	21.04	17.89	33	-15.11
	20850	2510	64QAM	1	0	22.44	19.29	33	-13.71
				1	99	22.22	19.07	33	-13.93
				50	25	21.47	18.32	33	-14.68
				100	0	21.48	18.33	33	-14.67
	21100	2535	64QAM	1	0	22.29	19.14	33	-13.86
				1	99	22.51	19.36	33	-13.64
				50	25	21.11	17.96	33	-15.04
				100	0	21.15	18.00	33	-15
	21350	2560	64QAM	1	0	22.46	19.31	33	-13.69
				1	99	22.03	18.88	33	-14.12
				50	25	20.88	17.73	33	-15.27
				100	0	20.93	17.78	33	-15.22

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Antenna gain (dBi) -5.86

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.69	14.68	16.83	34.77	-17.94
				1	5	22.56	14.55	16.70	34.77	-18.07
				3	2	22.62	14.61	16.76	34.77	-18.01
				6	0	21.65	13.64	15.79	34.77	-18.98
	23095	707.5	QPSK	1	0	22.79	14.78	16.93	34.77	-17.84
				1	5	22.88	14.87	17.02	34.77	-17.75
				3	2	22.77	14.76	16.91	34.77	-17.86
				6	0	21.81	13.80	15.95	34.77	-18.82
	23173	715.5	QPSK	1	0	23.19	15.18	17.33	34.77	-17.44
				1	5	23.18	15.17	17.32	34.77	-17.45
				3	2	22.95	14.94	17.09	34.77	-17.68
				6	0	22.29	14.28	16.43	34.77	-18.34
	23017	699.7	16QAM	1	0	21.69	13.68	15.83	34.77	-18.94
				1	5	22.00	13.99	16.14	34.77	-18.63
				3	2	21.78	13.77	15.92	34.77	-18.85
				6	0	20.54	12.53	14.68	34.77	-20.09
	23095	707.5	16QAM	1	0	21.55	13.54	15.69	34.77	-19.08
				1	5	22.10	14.09	16.24	34.77	-18.53
				3	2	21.89	13.88	16.03	34.77	-18.74
				6	0	20.85	12.84	14.99	34.77	-19.78
	23173	715.5	16QAM	1	0	22.30	14.29	16.44	34.77	-18.33
				1	5	22.90	14.89	17.04	34.77	-17.73
				3	2	21.96	13.95	16.10	34.77	-18.67
				6	0	21.18	13.17	15.32	34.77	-19.45
	23017	699.7	64QAM	1	0	22.04	14.03	16.18	34.77	-18.59
				1	5	22.46	14.45	16.60	34.77	-18.17
				3	2	21.06	13.05	15.20	34.77	-19.57
				6	0	21.04	13.03	15.18	34.77	-19.59
	23095	707.5	64QAM	1	0	22.41	14.40	16.55	34.77	-18.22
				1	5	22.37	14.36	16.51	34.77	-18.26
				3	2	20.96	12.95	15.10	34.77	-19.67
				6	0	21.00	12.99	15.14	34.77	-19.63
	23173	715.5	64QAM	1	0	22.58	14.57	16.72	34.77	-18.05
				1	5	22.89	14.88	17.03	34.77	-17.74
				3	2	21.18	13.17	15.32	34.77	-19.45
				6	0	21.13	13.12	15.27	34.77	-19.5

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Antenna gain (dBi) -5.86

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.59	14.58	16.73	34.77	-18.04
				1	14	22.61	14.60	16.75	34.77	-18.02
				8	4	21.60	13.59	15.74	34.77	-19.03
				15	0	21.60	13.59	15.74	34.77	-19.03
	23095	707.5	QPSK	1	0	22.81	14.80	16.95	34.77	-17.82
				1	14	22.82	14.81	16.96	34.77	-17.81
				8	4	21.86	13.85	16.00	34.77	-18.77
				15	0	21.85	13.84	15.99	34.77	-18.78
	23165	714.5	QPSK	1	0	23.15	15.14	17.29	34.77	-17.48
				1	14	23.16	15.15	17.30	34.77	-17.47
				8	4	22.20	14.19	16.34	34.77	-18.43
				15	0	22.13	14.12	16.27	34.77	-18.5
	23025	700.5	16QAM	1	0	21.48	13.47	15.62	34.77	-19.15
				1	14	21.60	13.59	15.74	34.77	-19.03
				8	4	20.67	12.66	14.81	34.77	-19.96
				15	0	20.73	12.72	14.87	34.77	-19.9
	23095	707.5	16QAM	1	0	22.16	14.15	16.30	34.77	-18.47
				1	14	22.22	14.21	16.36	34.77	-18.41
				8	4	21.00	12.99	15.14	34.77	-19.63
				15	0	20.89	12.88	15.03	34.77	-19.74
	23165	714.5	16QAM	1	0	22.18	14.17	16.32	34.77	-18.45
				1	14	22.34	14.33	16.48	34.77	-18.29
				8	4	21.03	13.02	15.17	34.77	-19.6
				15	0	21.15	13.14	15.29	34.77	-19.48
	23025	700.5	64QAM	1	0	22.04	14.03	16.18	34.77	-18.59
				1	14	22.39	14.38	16.53	34.77	-18.24
				8	4	21.13	13.12	15.27	34.77	-19.5
				15	0	21.02	13.01	15.16	34.77	-19.61
	23095	707.5	64QAM	1	0	22.44	14.43	16.58	34.77	-18.19
				1	14	22.53	14.52	16.67	34.77	-18.1
				8	4	21.04	13.03	15.18	34.77	-19.59
				15	0	20.97	12.96	15.11	34.77	-19.66
	23165	714.5	64QAM	1	0	22.66	14.65	16.80	34.77	-17.97
				1	14	22.84	14.83	16.98	34.77	-17.79
				8	4	21.10	13.09	15.24	34.77	-19.53
				15	0	21.14	13.13	15.28	34.77	-19.49

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.51	14.50	16.65	34.77	-18.12
				1	24	22.81	14.80	16.95	34.77	-17.82
				12	6	21.84	13.83	15.98	34.77	-18.79
				25	0	21.79	13.78	15.93	34.77	-18.84
	23095	707.5	QPSK	1	0	22.97	14.96	17.11	34.77	-17.66
				1	24	22.96	14.95	17.10	34.77	-17.67
				12	6	22.08	14.07	16.22	34.77	-18.55
				25	0	21.96	13.95	16.10	34.77	-18.67
	23155	713.5	QPSK	1	0	22.83	14.82	16.97	34.77	-17.8
				1	24	23.62	15.61	17.76	34.77	-17.01
				12	6	22.27	14.26	16.41	34.77	-18.36
				25	0	22.17	14.16	16.31	34.77	-18.46
	23035	701.5	16QAM	1	0	22.01	14.00	16.15	34.77	-18.62
				1	24	22.14	14.13	16.28	34.77	-18.49
				12	6	20.83	12.82	14.97	34.77	-19.8
				25	0	20.86	12.85	15.00	34.77	-19.77
	23095	707.5	16QAM	1	0	22.36	14.35	16.50	34.77	-18.27
				1	24	21.90	13.89	16.04	34.77	-18.73
				12	6	21.09	13.08	15.23	34.77	-19.54
				25	0	21.11	13.10	15.25	34.77	-19.52
	23155	713.5	16QAM	1	0	22.14	14.13	16.28	34.77	-18.49
				1	24	22.34	14.33	16.48	34.77	-18.29
				12	6	21.23	13.22	15.37	34.77	-19.4
				25	0	21.19	13.18	15.33	34.77	-19.44
	23035	701.5	64QAM	1	0	22.05	14.04	16.19	34.77	-18.58
				1	24	22.33	14.32	16.47	34.77	-18.3
				12	6	20.97	12.96	15.11	34.77	-19.66
				25	0	21.03	13.02	15.17	34.77	-19.6
	23095	707.5	64QAM	1	0	22.42	14.41	16.56	34.77	-18.21
				1	24	22.51	14.50	16.65	34.77	-18.12
				12	6	21.01	13.00	15.15	34.77	-19.62
				25	0	20.95	12.94	15.09	34.77	-19.68
	23155	713.5	64QAM	1	0	22.51	14.50	16.65	34.77	-18.12
				1	24	22.74	14.73	16.88	34.77	-17.89
				12	6	21.24	13.23	15.38	34.77	-19.39
				25	0	21.19	13.18	15.33	34.77	-19.44

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Antenna gain (dBi) -5.86

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.05	15.04	17.19	34.77	-17.58
				1	49	23.46	15.45	17.60	34.77	-17.17
				25	12	21.86	13.85	16.00	34.77	-18.77
				50	0	21.89	13.88	16.03	34.77	-18.74
	23095	707.5	QPSK	1	0	23.20	15.19	17.34	34.77	-17.43
				1	49	23.37	15.36	17.51	34.77	-17.26
				25	12	21.88	13.87	16.02	34.77	-18.75
				50	0	21.86	13.85	16.00	34.77	-18.77
	23130	711	QPSK	1	0	23.23	15.22	17.37	34.77	-17.4
				1	49	23.63	15.62	17.77	34.77	-17
				25	12	21.97	13.96	16.11	34.77	-18.66
				50	0	22.03	14.02	16.17	34.77	-18.6
	23060	704	16QAM	1	0	22.01	14.00	16.15	34.77	-18.62
				1	49	22.28	14.27	16.42	34.77	-18.35
				25	12	20.96	12.95	15.10	34.77	-19.67
				50	0	20.88	12.87	15.02	34.77	-19.75
	23095	707.5	16QAM	1	0	22.26	14.25	16.40	34.77	-18.37
				1	49	22.36	14.35	16.50	34.77	-18.27
				25	12	20.91	12.90	15.05	34.77	-19.72
				50	0	20.85	12.84	14.99	34.77	-19.78
	23130	711	16QAM	1	0	22.47	14.46	16.61	34.77	-18.16
				1	49	22.74	14.73	16.88	34.77	-17.89
				25	12	21.09	13.08	15.23	34.77	-19.54
				50	0	21.10	13.09	15.24	34.77	-19.53
	23060	704	64QAM	1	0	22.12	14.11	16.26	34.77	-18.51
				1	49	22.33	14.32	16.47	34.77	-18.3
				25	12	21.03	13.02	15.17	34.77	-19.6
				50	0	20.97	12.96	15.11	34.77	-19.66
	23095	707.5	64QAM	1	0	22.41	14.40	16.55	34.77	-18.22
				1	49	22.38	14.37	16.52	34.77	-18.25
				25	12	21.08	13.07	15.22	34.77	-19.55
				50	0	21.04	13.03	15.18	34.77	-19.59
	23130	711	64QAM	1	0	22.65	14.64	16.79	34.77	-17.98
				1	49	22.79	14.78	16.93	34.77	-17.84
				25	12	21.14	13.13	15.28	34.77	-19.49
				50	0	21.15	13.14	15.29	34.77	-19.48

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Antenna gain (dBi) -5.04

LTE Band 13 Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.06	15.87	18.02	34.77	-16.75
				1	24	23.05	15.86	18.01	34.77	-16.76
				12	6	22.15	14.96	17.11	34.77	-17.66
				25	0	22.11	14.92	17.07	34.77	-17.7
	23230	782	QPSK	1	0	23.13	15.94	18.09	34.77	-16.68
				1	24	23.33	16.14	18.29	34.77	-16.48
				12	6	22.15	14.96	17.11	34.77	-17.66
				25	0	22.10	14.91	17.06	34.77	-17.71
	23255	784.5	QPSK	1	0	23.05	15.86	18.01	34.77	-16.76
				1	24	23.13	15.94	18.09	34.77	-16.68
				12	6	22.16	14.97	17.12	34.77	-17.65
				25	0	22.24	15.05	17.20	34.77	-17.57
	23205	779.5	16QAM	1	0	22.30	15.11	17.26	34.77	-17.51
				1	24	22.17	14.98	17.13	34.77	-17.64
				12	6	21.31	14.12	16.27	34.77	-18.5
				25	0	21.12	13.93	16.08	34.77	-18.69
	23230	782	16QAM	1	0	22.34	15.15	17.30	34.77	-17.47
				1	24	22.44	15.25	17.40	34.77	-17.37
				12	6	21.21	14.02	16.17	34.77	-18.6
				25	0	21.28	14.09	16.24	34.77	-18.53
	23255	784.5	16QAM	1	0	22.75	15.56	17.71	34.77	-17.06
				1	24	22.39	15.20	17.35	34.77	-17.42
				12	6	21.30	14.11	16.26	34.77	-18.51
				25	0	21.24	14.05	16.20	34.77	-18.57
	23205	779.5	64QAM	1	0	22.12	14.93	17.08	34.77	-17.69
				1	24	22.05	14.86	17.01	34.77	-17.76
				12	6	21.23	14.04	16.19	34.77	-18.58
				25	0	21.00	13.81	15.96	34.77	-18.81
	23230	782	64QAM	1	0	22.32	15.13	17.28	34.77	-17.49
				1	24	22.43	15.24	17.39	34.77	-17.38
				12	6	21.18	13.99	16.14	34.77	-18.63
				25	0	21.15	13.96	16.11	34.77	-18.66
	23255	784.5	64QAM	1	0	22.73	15.54	17.69	34.77	-17.08
				1	24	22.30	15.11	17.26	34.77	-17.51
				12	6	21.17	13.98	16.13	34.77	-18.64
				25	0	21.14	13.95	16.10	34.77	-18.67

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Antenna gain (dBi) -5.04

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	23.22	16.03	18.18	34.77	-16.59
				1	49	23.39	16.20	18.35	34.77	-16.42
				25	12	22.42	15.23	17.38	34.77	-17.39
				50	0	22.55	15.36	17.51	34.77	-17.26
	23230	782	16QAM	1	0	22.59	15.40	17.55	34.77	-17.22
				1	49	22.38	15.19	17.34	34.77	-17.43
				25	12	21.56	14.37	16.52	34.77	-18.25
				50	0	21.47	14.28	16.43	34.77	-18.34
	23230	782	64QAM	1	0	22.44	15.25	17.40	34.77	-17.37
				1	49	22.33	15.14	17.29	34.77	-17.48
				25	12	21.48	14.29	16.44	34.77	-18.33
				50	0	21.37	14.18	16.33	34.77	-18.44

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Antenna gain (dBi) -7.23

LTE Band 14 Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	23.49	16.30	18.45	34.77	-16.32
				1	24	23.49	16.30	18.45	34.77	-16.32
				12	6	22.58	15.39	17.54	34.77	-17.23
				25	0	22.50	15.31	17.46	34.77	-17.31
	23330	793	QPSK	1	0	23.40	16.21	18.36	34.77	-16.41
				1	24	23.40	16.21	18.36	34.77	-16.41
				12	6	22.54	15.35	17.50	34.77	-17.27
				25	0	22.56	15.37	17.52	34.77	-17.25
	23355	795.5	QPSK	1	0	23.53	16.34	18.49	34.77	-16.28
				1	24	23.33	16.14	18.29	34.77	-16.48
				12	6	22.43	15.24	17.39	34.77	-17.38
				25	0	22.45	15.26	17.41	34.77	-17.36
	23305	790.5	16QAM	1	0	22.92	15.73	17.88	34.77	-16.89
				1	24	22.71	15.52	17.67	34.77	-17.1
				12	6	21.37	14.18	16.33	34.77	-18.44
				25	0	21.45	14.26	16.41	34.77	-18.36
	23330	793	16QAM	1	0	22.89	15.70	17.85	34.77	-16.92
				1	24	22.17	14.98	17.13	34.77	-17.64
				12	6	21.56	14.37	16.52	34.77	-18.25
				25	0	21.49	14.30	16.45	34.77	-18.32
	23355	795.5	16QAM	1	0	22.63	15.44	17.59	34.77	-17.18
				1	24	22.65	15.46	17.61	34.77	-17.16
				12	6	21.32	14.13	16.28	34.77	-18.49
				25	0	21.31	14.12	16.27	34.77	-18.5
	23305	790.5	64QAM	1	0	22.92	15.73	17.88	34.77	-16.89
				1	24	22.66	15.47	17.62	34.77	-17.15
				12	6	21.18	13.99	16.14	34.77	-18.63
				25	0	21.33	14.14	16.29	34.77	-18.48
	23330	793	64QAM	1	0	22.73	15.54	17.69	34.77	-17.08
				1	24	21.98	14.79	16.94	34.77	-17.83
				12	6	21.49	14.30	16.45	34.77	-18.32
				25	0	21.30	14.11	16.26	34.77	-18.51
	23355	795.5	64QAM	1	0	22.57	15.38	17.53	34.77	-17.24
				1	24	22.50	15.31	17.46	34.77	-17.31
				12	6	21.31	14.12	16.27	34.77	-18.5
				25	0	21.14	13.95	16.10	34.77	-18.67

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Antenna gain (dBi) -7.23

LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	23.72	16.53	18.68	34.77	-16.09
				1	49	23.51	16.32	18.47	34.77	-16.3
				25	12	22.77	15.58	17.73	34.77	-17.04
				50	0	22.68	15.49	17.64	34.77	-17.13
	23330	793	16QAM	1	0	22.89	15.70	17.85	34.77	-16.92
				1	49	22.35	15.16	17.31	34.77	-17.46
				25	12	21.67	14.48	16.63	34.77	-18.14
				50	0	21.61	14.42	16.57	34.77	-18.2
	23330	793	64QAM	1	0	22.73	15.54	17.69	34.77	-17.08
				1	49	22.21	15.02	17.17	34.77	-17.6
				25	12	21.59	14.40	16.55	34.77	-18.22
				50	0	21.51	14.32	16.47	34.77	-18.3

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Antenna gain (dBi) -5.86

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.87	14.86	17.01	34.77	-17.76
				1	24	23.30	15.29	17.44	34.77	-17.33
				12	6	21.90	13.89	16.04	34.77	-18.73
				25	0	21.95	13.94	16.09	34.77	-18.68
	23790	710	QPSK	1	0	22.65	14.64	16.79	34.77	-17.98
				1	24	23.37	15.36	17.51	34.77	-17.26
				12	6	21.89	13.88	16.03	34.77	-18.74
				25	0	22.05	14.04	16.19	34.77	-18.58
	23825	713.5	QPSK	1	0	22.81	14.80	16.95	34.77	-17.82
				1	24	23.45	15.44	17.59	34.77	-17.18
				12	6	22.03	14.02	16.17	34.77	-18.6
				25	0	22.08	14.07	16.22	34.77	-18.55
	23755	706.5	16QAM	1	0	22.09	14.08	16.23	34.77	-18.54
				1	24	22.30	14.29	16.44	34.77	-18.33
				12	6	21.11	13.10	15.25	34.77	-19.52
				25	0	20.94	12.93	15.08	34.77	-19.69
	23790	710	16QAM	1	0	22.12	14.11	16.26	34.77	-18.51
				1	24	22.44	14.43	16.58	34.77	-18.19
				12	6	20.95	12.94	15.09	34.77	-19.68
				25	0	20.93	12.92	15.07	34.77	-19.7
	23825	713.5	16QAM	1	0	22.23	14.22	16.37	34.77	-18.4
				1	24	22.61	14.60	16.75	34.77	-18.02
				12	6	21.10	13.09	15.24	34.77	-19.53
				25	0	21.01	13.00	15.15	34.77	-19.62
	23755	706.5	64QAM	1	0	22.05	14.04	16.19	34.77	-18.58
				1	24	22.17	14.16	16.31	34.77	-18.46
				12	6	20.95	12.94	15.09	34.77	-19.68
				25	0	20.83	12.82	14.97	34.77	-19.8
	23790	710	64QAM	1	0	22.11	14.10	16.25	34.77	-18.52
				1	24	22.27	14.26	16.41	34.77	-18.36
				12	6	20.89	12.88	15.03	34.77	-19.74
				25	0	20.88	12.87	15.02	34.77	-19.75
	23825	713.5	64QAM	1	0	22.05	14.04	16.19	34.77	-18.58
				1	24	22.55	14.54	16.69	34.77	-18.08
				12	6	20.93	12.92	15.07	34.77	-19.7
				25	0	20.98	12.97	15.12	34.77	-19.65

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Antenna gain (dBi) -5.86

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	22.99	14.98	17.13	34.77	-17.64
				1	49	22.93	14.92	17.07	34.77	-17.7
				25	12	21.97	13.96	16.11	34.77	-18.66
				50	0	21.93	13.92	16.07	34.77	-18.7
	23790	710	QPSK	1	0	22.85	14.84	16.99	34.77	-17.78
				1	49	23.21	15.20	17.35	34.77	-17.42
				25	12	21.99	13.98	16.13	34.77	-18.64
				50	0	22.08	14.07	16.22	34.77	-18.55
	23800	711	QPSK	1	0	22.93	14.92	17.07	34.77	-17.7
				1	49	23.26	15.25	17.40	34.77	-17.37
				25	12	22.20	14.19	16.34	34.77	-18.43
				50	0	22.17	14.16	16.31	34.77	-18.46
	23780	709	16QAM	1	0	22.48	14.47	16.62	34.77	-18.15
				1	49	22.44	14.43	16.58	34.77	-18.19
				25	12	21.02	13.01	15.16	34.77	-19.61
				50	0	21.08	13.07	15.22	34.77	-19.55
	23790	710	16QAM	1	0	21.84	13.83	15.98	34.77	-18.79
				1	49	22.12	14.11	16.26	34.77	-18.51
				25	12	21.07	13.06	15.21	34.77	-19.56
				50	0	21.07	13.06	15.21	34.77	-19.56
	23800	711	16QAM	1	0	22.58	14.57	16.72	34.77	-18.05
				1	49	22.22	14.21	16.36	34.77	-18.41
				25	12	21.34	13.33	15.48	34.77	-19.29
				50	0	21.30	13.29	15.44	34.77	-19.33
	23780	709	64QAM	1	0	22.08	14.07	16.22	34.77	-18.55
				1	49	22.19	14.18	16.33	34.77	-18.44
				25	12	21.10	13.09	15.24	34.77	-19.53
				50	0	20.82	12.81	14.96	34.77	-19.81
	23790	710	64QAM	1	0	22.04	14.03	16.18	34.77	-18.59
				1	49	22.34	14.33	16.48	34.77	-18.29
				25	12	20.92	12.91	15.06	34.77	-19.71
				50	0	20.84	12.83	14.98	34.77	-19.79
	23800	711	64QAM	1	0	22.15	14.14	16.29	34.77	-18.48
				1	49	22.59	14.58	16.73	34.77	-18.04
				25	12	20.93	12.92	15.07	34.77	-19.7
				50	0	20.91	12.90	15.05	34.77	-19.72

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Antenna gain (dBi) -5.33

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	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	23.14	17.81	33	-15.19
				1	14	23.06	17.73	33	-15.27
				8	4	21.98	16.65	33	-16.35
				15	0	22.02	16.69	33	-16.31
	26365	1882.5	QPSK	1	0	23.04	17.71	33	-15.29
				1	14	22.85	17.52	33	-15.48
				8	4	21.88	16.55	33	-16.45
				15	0	21.89	16.56	33	-16.44
	26675	1913.5	QPSK	1	0	22.84	17.51	33	-15.49
				1	14	22.47	17.14	33	-15.86
				8	4	21.74	16.41	33	-16.59
				15	0	21.84	16.51	33	-16.49
	26055	1851.5	16QAM	1	0	22.20	16.87	33	-16.13
				1	14	22.63	17.30	33	-15.7
				8	4	21.08	15.75	33	-17.25
				15	0	21.06	15.73	33	-17.27
	26365	1882.5	16QAM	1	0	22.40	17.07	33	-15.93
				1	14	21.78	16.45	33	-16.55
				8	4	20.81	15.48	33	-17.52
				15	0	20.90	15.57	33	-17.43
	26675	1913.5	16QAM	1	0	22.33	17.00	33	-16
				1	14	21.88	16.55	33	-16.45
				8	4	20.78	15.45	33	-17.55
				15	0	20.75	15.42	33	-17.58
	26055	1851.5	64QAM	1	0	22.28	16.95	33	-16.05
				1	14	22.35	17.02	33	-15.98
				8	4	21.31	15.98	33	-17.02
				15	0	21.20	15.87	33	-17.13
	26365	1882.5	64QAM	1	0	22.41	17.08	33	-15.92
				1	14	21.76	16.43	33	-16.57
				8	4	20.98	15.65	33	-17.35
				15	0	20.95	15.62	33	-17.38
	26675	1913.5	64QAM	1	0	22.27	16.94	33	-16.06
				1	14	22.04	16.71	33	-16.29
				8	4	21.09	15.76	33	-17.24
				15	0	21.15	15.82	33	-17.18

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Antenna gain (dBi) -5.33

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	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	23.12	17.79	33	-15.21
				1	24	23.26	17.93	33	-15.07
				12	6	22.17	16.84	33	-16.16
				25	0	22.20	16.87	33	-16.13
	26365	1882.5	QPSK	1	0	23.15	17.82	33	-15.18
				1	24	22.93	17.60	33	-15.4
				12	6	22.06	16.73	33	-16.27
				25	0	22.00	16.67	33	-16.33
	26665	1912.5	QPSK	1	0	22.76	17.43	33	-15.57
				1	24	22.75	17.42	33	-15.58
				12	6	21.91	16.58	33	-16.42
				25	0	21.94	16.61	33	-16.39
	26065	1852.5	16QAM	1	0	22.30	16.97	33	-16.03
				1	24	22.50	17.17	33	-15.83
				12	6	21.26	15.93	33	-17.07
				25	0	21.22	15.89	33	-17.11
	26365	1882.5	16QAM	1	0	22.21	16.88	33	-16.12
				1	24	22.37	17.04	33	-15.96
				12	6	21.08	15.75	33	-17.25
				25	0	21.04	15.71	33	-17.29
	26665	1912.5	16QAM	1	0	22.01	16.68	33	-16.32
				1	24	21.90	16.57	33	-16.43
				12	6	20.90	15.57	33	-17.43
				25	0	20.89	15.56	33	-17.44
	26065	1852.5	64QAM	1	0	22.29	16.96	33	-16.04
				1	24	22.45	17.12	33	-15.88
				12	6	21.28	15.95	33	-17.05
				25	0	21.16	15.83	33	-17.17
	26365	1882.5	64QAM	1	0	22.41	17.08	33	-15.92
				1	24	21.75	16.42	33	-16.58
				12	6	21.03	15.70	33	-17.3
				25	0	20.98	15.65	33	-17.35
	26665	1912.5	64QAM	1	0	22.26	16.93	33	-16.07
				1	24	21.98	16.65	33	-16.35
				12	6	21.02	15.69	33	-17.31
				25	0	21.08	15.75	33	-17.25

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Antenna gain (dBi) -5.33

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	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	23.22	17.89	33	-15.11
				1	49	23.20	17.87	33	-15.13
				25	12	22.38	17.05	33	-15.95
				50	0	22.35	17.02	33	-15.98
	26365	1882.5	QPSK	1	0	23.17	17.84	33	-15.16
				1	49	22.96	17.63	33	-15.37
				25	12	22.18	16.85	33	-16.15
				50	0	22.09	16.76	33	-16.24
	26640	1910	QPSK	1	0	22.85	17.52	33	-15.48
				1	49	22.78	17.45	33	-15.55
				25	12	21.96	16.63	33	-16.37
				50	0	22.06	16.73	33	-16.27
	26090	1855	16QAM	1	0	22.38	17.05	33	-15.95
				1	49	22.35	17.02	33	-15.98
				25	12	21.40	16.07	33	-16.93
				50	0	21.42	16.09	33	-16.91
	26365	1882.5	16QAM	1	0	22.60	17.27	33	-15.73
				1	49	22.28	16.95	33	-16.05
				25	12	21.24	15.91	33	-17.09
				50	0	21.17	15.84	33	-17.16
	26640	1910	16QAM	1	0	21.76	16.43	33	-16.57
				1	49	22.17	16.84	33	-16.16
				25	12	21.05	15.72	33	-17.28
				50	0	21.10	15.77	33	-17.23
	26090	1855	64QAM	1	0	22.24	16.91	33	-16.09
				1	49	22.35	17.02	33	-15.98
				25	12	21.20	15.87	33	-17.13
				50	0	21.19	15.86	33	-17.14
	26365	1882.5	64QAM	1	0	22.47	17.14	33	-15.86
				1	49	21.66	16.33	33	-16.67
				25	12	21.03	15.70	33	-17.3
				50	0	20.99	15.66	33	-17.34
	26640	1910	64QAM	1	0	22.32	16.99	33	-16.01
				1	49	21.94	16.61	33	-16.39
				25	12	21.01	15.68	33	-17.32
				50	0	21.08	15.75	33	-17.25

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Antenna gain (dBi) -5.33

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	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	23.22	17.89	33	-15.11
				1	74	23.13	17.80	33	-15.2
				36	18	22.27	16.94	33	-16.06
				75	0	22.26	16.93	33	-16.07
	26365	1882.5	QPSK	1	0	23.16	17.83	33	-15.17
				1	74	22.84	17.51	33	-15.49
				36	18	22.16	16.83	33	-16.17
				75	0	22.10	16.77	33	-16.23
	26615	1907.5	QPSK	1	0	23.13	17.80	33	-15.2
				1	74	22.95	17.62	33	-15.38
				36	18	22.09	16.76	33	-16.24
				75	0	22.12	16.79	33	-16.21
	26115	1857.5	16QAM	1	0	22.85	17.52	33	-15.48
				1	74	22.04	16.71	33	-16.29
				36	18	21.34	16.01	33	-16.99
				75	0	21.36	16.03	33	-16.97
	26365	1882.5	16QAM	1	0	22.20	16.87	33	-16.13
				1	74	22.01	16.68	33	-16.32
				36	18	21.23	15.90	33	-17.1
				75	0	21.14	15.81	33	-17.19
	26615	1907.5	16QAM	1	0	21.77	16.44	33	-16.56
				1	74	22.16	16.83	33	-16.17
				36	18	21.20	15.87	33	-17.13
				75	0	21.21	15.88	33	-17.12
	26115	1857.5	64QAM	1	0	22.25	16.92	33	-16.08
				1	74	22.47	17.14	33	-15.86
				36	18	21.17	15.84	33	-17.16
				75	0	21.22	15.89	33	-17.11
	26365	1882.5	64QAM	1	0	22.57	17.24	33	-15.76
				1	74	21.79	16.46	33	-16.54
				36	18	21.07	15.74	33	-17.26
				75	0	21.12	15.79	33	-17.21
	26615	1907.5	64QAM	1	0	22.29	16.96	33	-16.04
				1	74	21.91	16.58	33	-16.42
				36	18	20.96	15.63	33	-17.37
				75	0	21.00	15.67	33	-17.33

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Antenna gain (dBi) -5.33

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	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	23.34	18.01	33	-14.99
				1	99	23.20	17.87	33	-15.13
				50	25	22.21	16.88	33	-16.12
				100	0	22.23	16.90	33	-16.1
	26365	1882.5	QPSK	1	0	23.20	17.87	33	-15.13
				1	99	22.90	17.57	33	-15.43
				50	25	22.01	16.68	33	-16.32
				100	0	22.05	16.72	33	-16.28
	26590	1905	QPSK	1	0	23.01	17.68	33	-15.32
				1	99	22.81	17.48	33	-15.52
				50	25	22.10	16.77	33	-16.23
				100	0	22.16	16.83	33	-16.17
	26140	1860	16QAM	1	0	22.43	17.10	33	-15.9
				1	99	22.53	17.20	33	-15.8
				50	25	21.32	15.99	33	-17.01
				100	0	21.28	15.95	33	-17.05
	26365	1882.5	16QAM	1	0	22.57	17.24	33	-15.76
				1	99	21.79	16.46	33	-16.54
				50	25	21.14	15.81	33	-17.19
				100	0	21.15	15.82	33	-17.18
	26590	1905	16QAM	1	0	22.44	17.11	33	-15.89
				1	99	22.05	16.72	33	-16.28
				50	25	21.15	15.82	33	-17.18
				100	0	21.19	15.86	33	-17.14
	26140	1860	64QAM	1	0	22.39	17.06	33	-15.94
				1	99	22.46	17.13	33	-15.87
				50	25	21.25	15.92	33	-17.08
				100	0	21.13	15.80	33	-17.2
	26365	1882.5	64QAM	1	0	22.49	17.16	33	-15.84
				1	99	21.68	16.35	33	-16.65
				50	25	21.12	15.79	33	-17.21
				100	0	21.04	15.71	33	-17.29
	26590	1905	64QAM	1	0	22.38	17.05	33	-15.95
				1	99	21.91	16.58	33	-16.42
				50	25	21.12	15.79	33	-17.21
				100	0	21.04	15.71	33	-17.29

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Antenna gain (dBi) -4.74

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.02	16.13	18.28	38.45	-20.17
				1	5	23.09	16.20	18.35	38.45	-20.1
				3	2	23.00	16.11	18.26	38.45	-20.19
				6	0	22.00	15.11	17.26	38.45	-21.19
	26915	836.5	QPSK	1	0	23.14	16.25	18.40	38.45	-20.05
				1	5	23.14	16.25	18.40	38.45	-20.05
				3	2	23.08	16.19	18.34	38.45	-20.11
				6	0	22.14	15.25	17.40	38.45	-21.05
	27033	848.3	QPSK	1	0	23.29	16.40	18.55	38.45	-19.9
				1	5	23.12	16.23	18.38	38.45	-20.07
				3	2	23.16	16.27	18.42	38.45	-20.03
				6	0	22.13	15.24	17.39	38.45	-21.06
	26797	824.7	16QAM	1	0	22.30	15.41	17.56	38.45	-20.89
				1	5	22.26	15.37	17.52	38.45	-20.93
				3	2	22.15	15.26	17.41	38.45	-21.04
				6	0	21.10	14.21	16.36	38.45	-22.09
	26915	836.5	16QAM	1	0	22.48	15.59	17.74	38.45	-20.71
				1	5	22.26	15.37	17.52	38.45	-20.93
				3	2	22.29	15.40	17.55	38.45	-20.9
				6	0	21.15	14.26	16.41	38.45	-22.04
	27033	848.3	16QAM	1	0	22.62	15.73	17.88	38.45	-20.57
				1	5	22.37	15.48	17.63	38.45	-20.82
				3	2	21.89	15.00	17.15	38.45	-21.3
				6	0	21.13	14.24	16.39	38.45	-22.06
	26797	824.7	64QAM	1	0	22.17	15.28	17.43	38.45	-21.02
				1	5	22.55	15.66	17.81	38.45	-20.64
				3	2	21.06	14.17	16.32	38.45	-22.13
				6	0	21.12	14.23	16.38	38.45	-22.07
	26915	836.5	64QAM	1	0	22.41	15.52	17.67	38.45	-20.78
				1	5	22.19	15.30	17.45	38.45	-21
				3	2	21.12	14.23	16.38	38.45	-22.07
				6	0	21.02	14.13	16.28	38.45	-22.17
	27033	848.3	64QAM	1	0	22.44	15.55	17.70	38.45	-20.75
				1	5	22.73	15.84	17.99	38.45	-20.46
				3	2	21.25	14.36	16.51	38.45	-21.94
				6	0	21.32	14.43	16.58	38.45	-21.87

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Antenna gain (dBi) -4.74

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.04	16.15	18.30	38.45	-20.15
				1	14	23.13	16.24	18.39	38.45	-20.06
				8	4	22.05	15.16	17.31	38.45	-21.14
				15	0	22.00	15.11	17.26	38.45	-21.19
	26915	836.5	QPSK	1	0	23.03	16.14	18.29	38.45	-20.16
				1	14	23.00	16.11	18.26	38.45	-20.19
				8	4	22.15	15.26	17.41	38.45	-21.04
				15	0	22.10	15.21	17.36	38.45	-21.09
	27025	847.5	QPSK	1	0	23.15	16.26	18.41	38.45	-20.04
				1	14	23.27	16.38	18.53	38.45	-19.92
				8	4	22.22	15.33	17.48	38.45	-20.97
				15	0	22.22	15.33	17.48	38.45	-20.97
	26805	825.5	16QAM	1	0	22.47	15.58	17.73	38.45	-20.72
				1	14	22.14	15.25	17.40	38.45	-21.05
				8	4	21.14	14.25	16.40	38.45	-22.05
				15	0	21.07	14.18	16.33	38.45	-22.12
	26915	836.5	16QAM	1	0	22.25	15.36	17.51	38.45	-20.94
				1	14	22.66	15.77	17.92	38.45	-20.53
				8	4	21.14	14.25	16.40	38.45	-22.05
				15	0	21.09	14.20	16.35	38.45	-22.1
	27025	847.5	16QAM	1	0	22.00	15.11	17.26	38.45	-21.19
				1	14	22.58	15.69	17.84	38.45	-20.61
				8	4	21.24	14.35	16.50	38.45	-21.95
				15	0	21.03	14.14	16.29	38.45	-22.16
	26805	825.5	64QAM	1	0	22.27	15.38	17.53	38.45	-20.92
				1	14	22.65	15.76	17.91	38.45	-20.54
				8	4	21.05	14.16	16.31	38.45	-22.14
				15	0	21.13	14.24	16.39	38.45	-22.06
	26915	836.5	64QAM	1	0	22.39	15.50	17.65	38.45	-20.8
				1	14	22.13	15.24	17.39	38.45	-21.06
				8	4	21.08	14.19	16.34	38.45	-22.11
				15	0	21.01	14.12	16.27	38.45	-22.18
	27025	847.5	64QAM	1	0	22.33	15.44	17.59	38.45	-20.86
				1	14	22.73	15.84	17.99	38.45	-20.46
				8	4	21.21	14.32	16.47	38.45	-21.98
				15	0	21.26	14.37	16.52	38.45	-21.93

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Antenna gain (dBi) -4.74

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.05	16.16	18.31	38.45	-20.14
				1	24	23.20	16.31	18.46	38.45	-19.99
				12	6	22.21	15.32	17.47	38.45	-20.98
				25	0	22.18	15.29	17.44	38.45	-21.01
	26915	836.5	QPSK	1	0	23.08	16.19	18.34	38.45	-20.11
				1	24	23.28	16.39	18.54	38.45	-19.91
				12	6	22.18	15.29	17.44	38.45	-21.01
				25	0	22.21	15.32	17.47	38.45	-20.98
	27015	846.5	QPSK	1	0	23.20	16.31	18.46	38.45	-19.99
				1	24	23.17	16.28	18.43	38.45	-20.02
				12	6	22.19	15.30	17.45	38.45	-21
				25	0	22.23	15.34	17.49	38.45	-20.96
	26815	826.5	16QAM	1	0	22.28	15.39	17.54	38.45	-20.91
				1	24	22.26	15.37	17.52	38.45	-20.93
				12	6	21.26	14.37	16.52	38.45	-21.93
				25	0	21.34	14.45	16.60	38.45	-21.85
	26915	836.5	16QAM	1	0	22.45	15.56	17.71	38.45	-20.74
				1	24	22.41	15.52	17.67	38.45	-20.78
				12	6	21.24	14.35	16.50	38.45	-21.95
				25	0	21.36	14.47	16.62	38.45	-21.83
	27015	846.5	16QAM	1	0	22.40	15.51	17.66	38.45	-20.79
				1	24	22.53	15.64	17.79	38.45	-20.66
				12	6	21.37	14.48	16.63	38.45	-21.82
				25	0	21.28	14.39	16.54	38.45	-21.91
	26815	826.5	64QAM	1	0	22.17	15.28	17.43	38.45	-21.02
				1	24	22.50	15.61	17.76	38.45	-20.69
				12	6	21.05	14.16	16.31	38.45	-22.14
				25	0	21.01	14.12	16.27	38.45	-22.18
	26915	836.5	64QAM	1	0	22.44	15.55	17.70	38.45	-20.75
				1	24	22.16	15.27	17.42	38.45	-21.03
				12	6	21.06	14.17	16.32	38.45	-22.13
				25	0	21.16	14.27	16.42	38.45	-22.03
	27015	846.5	64QAM	1	0	22.28	15.39	17.54	38.45	-20.91
				1	24	22.88	15.99	18.14	38.45	-20.31
				12	6	21.28	14.39	16.54	38.45	-21.91
				25	0	21.32	14.43	16.58	38.45	-21.87

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.01	16.12	18.27	38.45	-20.18
				1	49	23.14	16.25	18.40	38.45	-20.05
				25	12	22.08	15.19	17.34	38.45	-21.11
				50	0	22.18	15.29	17.44	38.45	-21.01
	26915	836.5	QPSK	1	0	23.06	16.17	18.32	38.45	-20.13
				1	49	23.19	16.30	18.45	38.45	-20
				25	12	22.14	15.25	17.40	38.45	-21.05
				50	0	22.14	15.25	17.40	38.45	-21.05
	26990	844	QPSK	1	0	23.48	16.59	18.74	38.45	-19.71
				1	49	23.20	16.31	18.46	38.45	-19.99
				25	12	22.24	15.35	17.50	38.45	-20.95
				50	0	22.22	15.33	17.48	38.45	-20.97
	26840	829	16QAM	1	0	22.51	15.62	17.77	38.45	-20.68
				1	49	22.37	15.48	17.63	38.45	-20.82
				25	12	21.19	14.30	16.45	38.45	-22
				50	0	21.19	14.30	16.45	38.45	-22
	26915	836.5	16QAM	1	0	22.40	15.51	17.66	38.45	-20.79
				1	49	22.58	15.69	17.84	38.45	-20.61
				25	12	21.23	14.34	16.49	38.45	-21.96
				50	0	21.13	14.24	16.39	38.45	-22.06
	26990	844	16QAM	1	0	22.72	15.83	17.98	38.45	-20.47
				1	49	22.27	15.38	17.53	38.45	-20.92
				25	12	21.30	14.41	16.56	38.45	-21.89
				50	0	21.27	14.38	16.53	38.45	-21.92
	26840	829	64QAM	1	0	22.30	15.41	17.56	38.45	-20.89
				1	49	22.54	15.65	17.80	38.45	-20.65
				25	12	21.09	14.20	16.35	38.45	-22.1
				50	0	21.10	14.21	16.36	38.45	-22.09
	26915	836.5	64QAM	1	0	22.39	15.50	17.65	38.45	-20.8
				1	49	22.18	15.29	17.44	38.45	-21.01
				25	12	21.01	14.12	16.27	38.45	-22.18
				50	0	21.09	14.20	16.35	38.45	-22.1
	26990	844	64QAM	1	0	22.31	15.42	17.57	38.45	-20.88
				1	49	22.70	15.81	17.96	38.45	-20.49
				25	12	21.22	14.33	16.48	38.45	-21.97
				50	0	21.32	14.43	16.58	38.45	-21.87

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15	26865	831.5	QPSK	1	0	23.05	16.16	18.31	38.45	-20.14
				1	74	23.34	16.45	18.60	38.45	-19.85
				36	18	22.08	15.19	17.34	38.45	-21.11
				75	0	22.13	15.24	17.39	38.45	-21.06
	26915	836.5	QPSK	1	0	23.04	16.15	18.30	38.45	-20.15
				1	74	23.49	16.60	18.75	38.45	-19.7
				36	18	22.12	15.23	17.38	38.45	-21.07
				75	0	22.14	15.25	17.40	38.45	-21.05
	26965	841.5	QPSK	1	0	23.24	16.35	18.50	38.45	-19.95
				1	74	23.33	16.44	18.59	38.45	-19.86
				36	18	22.45	15.56	17.71	38.45	-20.74
				75	0	22.41	15.52	17.67	38.45	-20.78
	26865	831.5	16QAM	1	0	22.32	15.43	17.58	38.45	-20.87
				1	74	22.68	15.79	17.94	38.45	-20.51
				36	18	21.08	14.19	16.34	38.45	-22.11
				75	0	21.17	14.28	16.43	38.45	-22.02
	26915	836.5	16QAM	1	0	22.49	15.60	17.75	38.45	-20.7
				1	74	22.24	15.35	17.50	38.45	-20.95
				36	18	21.13	14.24	16.39	38.45	-22.06
				75	0	21.18	14.29	16.44	38.45	-22.01
	26965	841.5	16QAM	1	0	22.45	15.56	17.71	38.45	-20.74
				1	74	22.89	16.00	18.15	38.45	-20.3
				36	18	21.39	14.50	16.65	38.45	-21.8
				75	0	21.38	14.49	16.64	38.45	-21.81
	26865	831.5	64QAM	1	0	22.22	15.33	17.48	38.45	-20.97
				1	74	22.54	15.65	17.80	38.45	-20.65
				36	18	21.00	14.11	16.26	38.45	-22.19
				75	0	21.03	14.14	16.29	38.45	-22.16
	26915	836.5	64QAM	1	0	22.40	15.51	17.66	38.45	-20.79
				1	74	22.16	15.27	17.42	38.45	-21.03
				36	18	21.07	14.18	16.33	38.45	-22.12
				75	0	21.17	14.28	16.43	38.45	-22.02
	26965	841.5	64QAM	1	0	22.34	15.45	17.60	38.45	-20.85
				1	74	22.78	15.89	18.04	38.45	-20.41
				36	18	21.25	14.36	16.51	38.45	-21.94
				75	0	21.37	14.48	16.63	38.45	-21.82

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Antenna gain (dBi) -6.54

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	22.71	14.02	16.17	50	-33.83
				1	5	22.84	14.15	16.30	50	-33.7
				3	2	22.59	13.90	16.05	50	-33.95
				6	0	21.75	13.06	15.21	50	-34.79
	26740	819	QPSK	1	0	22.92	14.23	16.38	50	-33.62
				1	5	22.91	14.22	16.37	50	-33.63
				3	2	22.92	14.23	16.38	50	-33.62
				6	0	21.94	13.25	15.40	50	-34.6
	26783	823.3	QPSK	1	0	22.71	14.02	16.17	50	-33.83
				1	5	22.63	13.94	16.09	50	-33.91
				3	2	22.60	13.91	16.06	50	-33.94
				6	0	21.52	12.83	14.98	50	-35.02
	26697	814.7	16QAM	1	0	21.86	13.17	15.32	50	-34.68
				1	5	21.90	13.21	15.36	50	-34.64
				3	2	21.66	12.97	15.12	50	-34.88
				6	0	20.79	12.10	14.25	50	-35.75
	26740	819	16QAM	1	0	22.09	13.40	15.55	50	-34.45
				1	5	21.80	13.11	15.26	50	-34.74
				3	2	21.60	12.91	15.06	50	-34.94
				6	0	21.00	12.31	14.46	50	-35.54
	26783	823.3	16QAM	1	0	21.90	13.21	15.36	50	-34.64
				1	5	21.75	13.06	15.21	50	-34.79
				3	2	21.58	12.89	15.04	50	-34.96
				6	0	20.71	12.02	14.17	50	-35.83
	26697	814.7	64QAM	1	0	21.72	13.03	15.18	50	-34.82
				1	5	21.79	13.10	15.25	50	-34.75
				3	2	21.62	12.93	15.08	50	-34.92
				6	0	20.59	11.90	14.05	50	-35.95
	26740	819	64QAM	1	0	22.01	13.32	15.47	50	-34.53
				1	5	21.64	12.95	15.10	50	-34.9
				3	2	21.52	12.83	14.98	50	-35.02
				6	0	20.88	12.19	14.34	50	-35.66
	26783	823.3	64QAM	1	0	21.73	13.04	15.19	50	-34.81
				1	5	21.62	12.93	15.08	50	-34.92
				3	2	21.48	12.79	14.94	50	-35.06
				6	0	20.54	11.85	14.00	50	-36

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Antenna gain (dBi) -6.54

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

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.60	13.91	16.06	50	-33.94
				1	14	22.57	13.88	16.03	50	-33.97
				8	4	21.78	13.09	15.24	50	-34.76
				15	0	21.83	13.14	15.29	50	-34.71
	26740	819	QPSK	1	0	21.90	13.21	15.36	50	-34.64
				1	14	22.50	13.81	15.96	50	-34.04
				8	4	21.90	13.21	15.36	50	-34.64
				15	0	21.90	13.21	15.36	50	-34.64
	26775	822.5	QPSK	1	0	22.13	13.44	15.59	50	-34.41
				1	14	21.82	13.13	15.28	50	-34.72
				8	4	21.75	13.06	15.21	50	-34.79
				15	0	21.82	13.13	15.28	50	-34.72
	26705	815.5	16QAM	1	0	21.64	12.95	15.10	50	-34.9
				1	14	21.98	13.29	15.44	50	-34.56
				8	4	20.79	12.10	14.25	50	-35.75
				15	0	20.57	11.88	14.03	50	-35.97
	26740	819	16QAM	1	0	21.83	13.14	15.29	50	-34.71
				1	14	21.85	13.16	15.31	50	-34.69
				8	4	20.85	12.16	14.31	50	-35.69
				15	0	20.84	12.15	14.30	50	-35.7
	26775	822.5	16QAM	1	0	21.88	13.19	15.34	50	-34.66
				1	14	21.86	13.17	15.32	50	-34.68
				8	4	20.70	12.01	14.16	50	-35.84
				15	0	20.78	12.09	14.24	50	-35.76
	26705	815.5	64QAM	1	0	21.57	12.88	15.03	50	-34.97
				1	14	21.85	13.16	15.31	50	-34.69
				8	4	20.63	11.94	14.09	50	-35.91
				15	0	20.42	11.73	13.88	50	-36.12
	26740	819	64QAM	1	0	21.77	13.08	15.23	50	-34.77
				1	14	21.75	13.06	15.21	50	-34.79
				8	4	20.64	11.95	14.10	50	-35.9
				15	0	20.71	12.02	14.17	50	-35.83
	26775	822.5	64QAM	1	0	21.82	13.13	15.28	50	-34.72
				1	14	21.73	13.04	15.19	50	-34.81
				8	4	20.67	11.98	14.13	50	-35.87
				15	0	20.74	12.05	14.20	50	-35.8

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Antenna gain (dBi) -6.54

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	22.12	13.43	15.58	50	-34.42
				1	24	23.02	14.33	16.48	50	-33.52
				12	6	21.99	13.30	15.45	50	-34.55
				25	0	21.99	13.30	15.45	50	-34.55
	26740	819	QPSK	1	0	22.33	13.64	15.79	50	-34.21
				1	24	22.91	14.22	16.37	50	-33.63
				12	6	21.99	13.30	15.45	50	-34.55
				25	0	22.00	13.31	15.46	50	-34.54
	26765	821.5	QPSK	1	0	22.84	14.15	16.30	50	-33.7
				1	24	22.82	14.13	16.28	50	-33.72
				12	6	21.97	13.28	15.43	50	-34.57
				25	0	21.99	13.30	15.45	50	-34.55
	26715	816.5	16QAM	1	0	22.01	13.32	15.47	50	-34.53
				1	24	22.21	13.52	15.67	50	-34.33
				12	6	21.04	12.35	14.50	50	-35.5
				25	0	21.07	12.38	14.53	50	-35.47
	26740	819	16QAM	1	0	21.90	13.21	15.36	50	-34.64
				1	24	21.03	12.34	14.49	50	-35.51
				12	6	21.07	12.38	14.53	50	-35.47
				25	0	21.06	12.37	14.52	50	-35.48
	26765	821.5	16QAM	1	0	21.37	12.68	14.83	50	-35.17
				1	24	21.59	12.90	15.05	50	-34.95
				12	6	21.06	12.37	14.52	50	-35.48
				25	0	21.06	12.37	14.52	50	-35.48
	26715	816.5	64QAM	1	0	21.97	13.28	15.43	50	-34.57
				1	24	22.05	13.36	15.51	50	-34.49
				12	6	21.00	12.31	14.46	50	-35.54
				25	0	21.03	12.34	14.49	50	-35.51
	26740	819	64QAM	1	0	21.85	13.16	15.31	50	-34.69
				1	24	20.89	12.20	14.35	50	-35.65
				12	6	20.98	12.29	14.44	50	-35.56
				25	0	20.96	12.27	14.42	50	-35.58
	26765	821.5	64QAM	1	0	21.24	12.55	14.70	50	-35.3
				1	24	21.35	12.66	14.81	50	-35.19
				12	6	20.95	12.26	14.41	50	-35.59
				25	0	20.99	12.30	14.45	50	-35.55

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Antenna gain (dBi) -6.54

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

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	22.84	14.15	16.30	50	-33.7
				1	49	22.95	14.26	16.41	50	-33.59
				25	12	22.01	13.32	15.47	50	-34.53
				50	0	22.01	13.32	15.47	50	-34.53
	26740	819	16QAM	1	0	22.29	13.60	15.75	50	-34.25
				1	49	22.24	13.55	15.70	50	-34.3
				25	12	21.14	12.45	14.60	50	-35.4
				50	0	21.04	12.35	14.50	50	-35.5
	26740	819	64QAM	1	0	22.17	13.48	15.63	50	-34.37
				1	49	22.05	13.36	15.51	50	-34.49
				25	12	21.10	12.41	14.56	50	-35.44
				50	0	20.97	12.28	14.43	50	-35.57

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Antenna gain (dBi) -3.39

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	22.55	19.16	24	-4.84
				1	24	22.48	19.09	24	-4.91
				12	6	21.20	17.81	24	-6.19
				25	0	21.21	17.82	24	-6.18
	27710	2310	QPSK	1	0	22.47	19.08	24	-4.92
				1	24	22.49	19.10	24	-4.9
				12	6	21.32	17.93	24	-6.07
				25	0	21.42	18.03	24	-5.97
	27735	2312.5	QPSK	1	0	22.62	19.23	24	-4.77
				1	24	22.79	19.40	24	-4.6
				12	6	21.53	18.14	24	-5.86
				25	0	21.55	18.16	24	-5.84
	27685	2307.5	16QAM	1	0	22.02	18.63	24	-5.37
				1	24	21.68	18.29	24	-5.71
				12	6	20.15	16.76	24	-7.24
				25	0	20.20	16.81	24	-7.19
	27710	2310	16QAM	1	0	21.61	18.22	24	-5.78
				1	24	21.83	18.44	24	-5.56
				12	6	20.33	16.94	24	-7.06
				25	0	20.42	17.03	24	-6.97
	27735	2312.5	16QAM	1	0	22.17	18.78	24	-5.22
				1	24	22.32	18.93	24	-5.07
				12	6	20.56	17.17	24	-6.83
				25	0	20.59	17.20	24	-6.8
	27685	2307.5	64QAM	1	0	22.07	18.68	24	-5.32
				1	24	21.77	18.38	24	-5.62
				12	6	20.34	16.95	24	-7.05
				25	0	20.38	16.99	24	-7.01
	27710	2310	64QAM	1	0	21.73	18.34	24	-5.66
				1	24	22.03	18.64	24	-5.36
				12	6	20.45	17.06	24	-6.94
				25	0	20.60	17.21	24	-6.79
	27735	2312.5	64QAM	1	0	22.27	18.88	24	-5.12
				1	24	22.50	19.11	24	-4.89
				12	6	20.73	17.34	24	-6.66
				25	0	20.60	17.21	24	-6.79

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Antenna gain (dBi) -3.39

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	22.32	18.93	24	-5.07
				1	49	22.81	19.42	24	-4.58
				25	12	21.44	18.05	24	-5.95
				50	0	21.58	18.19	24	-5.81
	27710	2310	16QAM	1	0	22.02	18.63	24	-5.37
				1	49	22.01	18.62	24	-5.38
				25	12	20.61	17.22	24	-6.78
				50	0	20.68	17.29	24	-6.71
	27710	2310	64QAM	1	0	22.20	18.81	24	-5.19
				1	49	22.08	18.69	24	-5.31
				25	12	20.77	17.38	24	-6.62
				50	0	20.80	17.41	24	-6.59

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Antenna gain (dBi) -3.93

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.02	19.09	33	-13.91
				1	24	23.08	19.15	33	-13.85
				12	6	22.02	18.09	33	-14.91
				25	0	22.02	18.09	33	-14.91
	38000	2595	QPSK	1	0	23.08	19.15	33	-13.85
				1	24	23.27	19.34	33	-13.66
				12	6	22.20	18.27	33	-14.73
				25	0	22.18	18.25	33	-14.75
	38225	2617.5	QPSK	1	0	23.53	19.60	33	-13.4
				1	24	23.62	19.69	33	-13.31
				12	6	22.67	18.74	33	-14.26
				25	0	22.65	18.72	33	-14.28
	37775	2572.5	16QAM	1	0	22.09	18.16	33	-14.84
				1	24	22.02	18.09	33	-14.91
				12	6	21.13	17.20	33	-15.8
				25	0	21.03	17.10	33	-15.9
	38000	2595	16QAM	1	0	22.03	18.10	33	-14.9
				1	24	22.59	18.66	33	-14.34
				12	6	21.15	17.22	33	-15.78
				25	0	21.07	17.14	33	-15.86
	38225	2617.5	16QAM	1	0	22.56	18.63	33	-14.37
				1	24	22.76	18.83	33	-14.17
				12	6	21.57	17.64	33	-15.36
				25	0	21.54	17.61	33	-15.39
	37775	2572.5	64QAM	1	0	22.26	18.33	33	-14.67
				1	24	22.04	18.11	33	-14.89
				12	6	21.15	17.22	33	-15.78
				25	0	21.06	17.13	33	-15.87
	38000	2595	64QAM	1	0	22.19	18.26	33	-14.74
				1	24	22.64	18.71	33	-14.29
				12	6	21.29	17.36	33	-15.64
				25	0	21.11	17.18	33	-15.82
	38225	2617.5	64QAM	1	0	22.59	18.66	33	-14.34
				1	24	22.93	19.00	33	-14
				12	6	21.59	17.66	33	-15.34
				25	0	21.60	17.67	33	-15.33

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Antenna gain (dBi) -3.93

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.21	19.28	33	-13.72
				1	49	23.08	19.15	33	-13.85
				25	12	22.02	18.09	33	-14.91
				50	0	22.09	18.16	33	-14.84
	38000	2595	QPSK	1	0	23.07	19.14	33	-13.86
				1	49	23.31	19.38	33	-13.62
				25	12	22.22	18.29	33	-14.71
				50	0	22.19	18.26	33	-14.74
	38200	2615	QPSK	1	0	23.54	19.61	33	-13.39
				1	49	23.54	19.61	33	-13.39
				25	12	22.62	18.69	33	-14.31
				50	0	22.59	18.66	33	-14.34
	37800	2575	16QAM	1	0	22.32	18.39	33	-14.61
				1	49	22.08	18.15	33	-14.85
				25	12	21.06	17.13	33	-15.87
				50	0	21.00	17.07	33	-15.93
	38000	2595	16QAM	1	0	22.55	18.62	33	-14.38
				1	49	22.22	18.29	33	-14.71
				25	12	21.16	17.23	33	-15.77
				50	0	21.12	17.19	33	-15.81
	38200	2615	16QAM	1	0	22.64	18.71	33	-14.29
				1	49	22.82	18.89	33	-14.11
				25	12	21.53	17.60	33	-15.4
				50	0	21.50	17.57	33	-15.43
	37800	2575	64QAM	1	0	22.11	18.18	33	-14.82
				1	49	22.05	18.12	33	-14.88
				25	12	21.14	17.21	33	-15.79
				50	0	21.16	17.23	33	-15.77
	38000	2595	64QAM	1	0	22.22	18.29	33	-14.71
				1	49	22.69	18.76	33	-14.24
				25	12	21.22	17.29	33	-15.71
				50	0	21.11	17.18	33	-15.82
	38200	2615	64QAM	1	0	22.59	18.66	33	-14.34
				1	49	22.76	18.83	33	-14.17
				25	12	21.61	17.68	33	-15.32
				50	0	21.58	17.65	33	-15.35

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Antenna gain (dBi) -3.93

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.13	19.20	33	-13.8
				1	74	23.04	19.11	33	-13.89
				36	19	22.02	18.09	33	-14.91
				75	0	22.09	18.16	33	-14.84
	38000	2595	QPSK	1	0	23.21	19.28	33	-13.72
				1	74	23.20	19.27	33	-13.73
				36	19	22.22	18.29	33	-14.71
				75	0	22.17	18.24	33	-14.76
	38175	2612.5	QPSK	1	0	23.29	19.36	33	-13.64
				1	74	23.78	19.85	33	-13.15
				36	19	22.54	18.61	33	-14.39
				75	0	22.50	18.57	33	-14.43
	37825	2577.5	16QAM	1	0	22.06	18.13	33	-14.87
				1	74	22.14	18.21	33	-14.79
				36	19	21.08	17.15	33	-15.85
				75	0	21.05	17.12	33	-15.88
	38000	2595	16QAM	1	0	22.22	18.29	33	-14.71
				1	74	22.09	18.16	33	-14.84
				36	19	21.22	17.29	33	-15.71
				75	0	21.17	17.24	33	-15.76
	38175	2612.5	16QAM	1	0	22.70	18.77	33	-14.23
				1	74	22.28	18.35	33	-14.65
				36	19	21.57	17.64	33	-15.36
				75	0	21.42	17.49	33	-15.51
	37825	2577.5	64QAM	1	0	22.25	18.32	33	-14.68
				1	74	22.10	18.17	33	-14.83
				36	19	21.19	17.26	33	-15.74
				75	0	21.05	17.12	33	-15.88
	38000	2595	64QAM	1	0	22.14	18.21	33	-14.79
				1	74	22.66	18.73	33	-14.27
				36	19	21.29	17.36	33	-15.64
				75	0	21.22	17.29	33	-15.71
	38175	2612.5	64QAM	1	0	22.58	18.65	33	-14.35
				1	74	22.82	18.89	33	-14.11
				36	19	21.66	17.73	33	-15.27
				75	0	21.67	17.74	33	-15.26

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Antenna gain (dBi) -3.93

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.38	19.45	33	-13.55
				1	99	23.37	19.44	33	-13.56
				50	25	22.05	18.12	33	-14.88
				100	0	22.05	18.12	33	-14.88
	38000	2595	QPSK	1	0	23.39	19.46	33	-13.54
				1	99	23.45	19.52	33	-13.48
				50	25	22.11	18.18	33	-14.82
				100	0	22.08	18.15	33	-14.85
	38150	2610	QPSK	1	0	23.55	19.62	33	-13.38
				1	99	23.77	19.84	33	-13.16
				50	25	22.45	18.52	33	-14.48
				100	0	22.44	18.51	33	-14.49
	37850	2580	16QAM	1	0	22.16	18.23	33	-14.77
				1	99	22.07	18.14	33	-14.86
				50	25	21.07	17.14	33	-15.86
				100	0	21.06	17.13	33	-15.87
	38000	2595	16QAM	1	0	22.18	18.25	33	-14.75
				1	99	22.08	18.15	33	-14.85
				50	25	21.08	17.15	33	-15.85
				100	0	21.10	17.17	33	-15.83
	38150	2610	16QAM	1	0	22.82	18.89	33	-14.11
				1	99	22.82	18.89	33	-14.11
				50	25	21.40	17.47	33	-15.53
				100	0	21.41	17.48	33	-15.52
	37850	2580	64QAM	1	0	22.10	18.17	33	-14.83
				1	99	22.22	18.29	33	-14.71
				50	25	21.15	17.22	33	-15.78
				100	0	21.16	17.23	33	-15.77
	38000	2595	64QAM	1	0	22.10	18.17	33	-14.83
				1	99	22.78	18.85	33	-14.15
				50	25	21.18	17.25	33	-15.75
				100	0	21.17	17.24	33	-15.76
	38150	2610	64QAM	1	0	22.66	18.73	33	-14.27
				1	99	22.96	19.03	33	-13.97
				50	25	21.67	17.74	33	-15.26
				100	0	21.62	17.69	33	-15.31

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Antenna gain (dBi) -3.15

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	23.21	20.06	33	-12.94
				1	24	22.87	19.72	33	-13.28
				12	6	22.51	19.36	33	-13.64
				25	0	22.57	19.42	33	-13.58
	40620	2593	QPSK	1	0	22.64	19.49	33	-13.51
				1	24	22.53	19.38	33	-13.62
				12	6	22.13	18.98	33	-14.02
				25	0	22.93	19.78	33	-13.22
	41565	2687.5	QPSK	1	0	22.65	19.50	33	-13.5
				1	24	22.73	19.58	33	-13.42
				12	6	22.90	19.75	33	-13.25
				25	0	22.93	19.78	33	-13.22
	39675	2498.5	16QAM	1	0	22.68	19.53	33	-13.47
				1	24	22.63	19.48	33	-13.52
				12	6	21.41	18.26	33	-14.74
				25	0	21.35	18.20	33	-14.8
	40620	2593	16QAM	1	0	22.23	19.08	33	-13.92
				1	24	21.96	18.81	33	-14.19
				12	6	20.98	17.83	33	-15.17
				25	0	21.04	17.89	33	-15.11
	41565	2687.5	16QAM	1	0	22.98	19.83	33	-13.17
				1	24	22.80	19.65	33	-13.35
				12	6	21.94	18.79	33	-14.21
				25	0	21.99	18.84	33	-14.16
	39675	2498.5	64QAM	1	0	22.49	19.34	33	-13.66
				1	24	22.62	19.47	33	-13.53
				12	6	21.40	18.25	33	-14.75
				25	0	21.16	18.01	33	-14.99
	40620	2593	64QAM	1	0	22.09	18.94	33	-14.06
				1	24	21.91	18.76	33	-14.24
				12	6	20.83	17.68	33	-15.32
				25	0	20.98	17.83	33	-15.17
	41565	2687.5	64QAM	1	0	22.96	19.81	33	-13.19
				1	24	22.60	19.45	33	-13.55
				12	6	21.93	18.78	33	-14.22
				25	0	21.94	18.79	33	-14.21

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Antenna gain (dBi) -3.15

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	23.12	19.97	33	-13.03
				1	49	22.83	19.68	33	-13.32
				25	12	22.45	19.30	33	-13.7
				50	0	22.44	19.29	33	-13.71
	40620	2593	QPSK	1	0	22.63	19.48	33	-13.52
				1	49	22.59	19.44	33	-13.56
				25	12	22.09	18.94	33	-14.06
				50	0	22.05	18.90	33	-14.1
	41540	2685	QPSK	1	0	23.82	20.67	33	-12.33
				1	49	23.64	20.49	33	-12.51
				25	12	22.87	19.72	33	-13.28
				50	0	22.83	19.68	33	-13.32
	39700	2501	16QAM	1	0	22.82	19.67	33	-13.33
				1	49	22.44	19.29	33	-13.71
				25	12	21.33	18.18	33	-14.82
				50	0	21.23	18.08	33	-14.92
	40620	2593	16QAM	1	0	22.07	18.92	33	-14.08
				1	49	22.04	18.89	33	-14.11
				25	12	20.95	17.80	33	-15.2
				50	0	20.86	17.71	33	-15.29
	41540	2685	16QAM	1	0	22.83	19.68	33	-13.32
				1	49	22.84	19.69	33	-13.31
				25	12	21.89	18.74	33	-14.26
				50	0	21.91	18.76	33	-14.24
	39700	2501	64QAM	1	0	22.57	19.42	33	-13.58
				1	49	22.47	19.32	33	-13.68
				25	12	21.33	18.18	33	-14.82
				50	0	21.24	18.09	33	-14.91
	40620	2593	64QAM	1	0	22.15	19.00	33	-14
				1	49	21.87	18.72	33	-14.28
				25	12	20.86	17.71	33	-15.29
				50	0	20.91	17.76	33	-15.24
	41540	2685	64QAM	1	0	22.90	19.75	33	-13.25
				1	49	22.73	19.58	33	-13.42
				25	12	21.85	18.70	33	-14.3
				50	0	21.92	18.77	33	-14.23

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Antenna gain (dBi) -3.15

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	23.19	20.04	33	-12.96
				1	74	23.04	19.89	33	-13.11
				36	18	22.57	19.42	33	-13.58
				75	0	22.54	19.39	33	-13.61
	40620	2593	QPSK	1	0	22.60	19.45	33	-13.55
				1	74	22.84	19.69	33	-13.31
				36	18	22.18	19.03	33	-13.97
				75	0	22.13	18.98	33	-14.02
	41515	2682.5	QPSK	1	0	23.69	20.54	33	-12.46
				1	74	23.60	20.45	33	-12.55
				36	18	22.84	19.69	33	-13.31
				75	0	22.88	19.73	33	-13.27
	39725	2503.5	16QAM	1	0	22.06	18.91	33	-14.09
				1	74	22.07	18.92	33	-14.08
				36	18	21.20	18.05	33	-14.95
				75	0	21.17	18.02	33	-14.98
	40620	2593	16QAM	1	0	21.93	18.78	33	-14.22
				1	74	22.00	18.85	33	-14.15
				36	18	20.82	17.67	33	-15.33
				75	0	20.72	17.57	33	-15.43
	41515	2682.5	16QAM	1	0	22.58	19.43	33	-13.57
				1	74	22.81	19.66	33	-13.34
				36	18	21.40	18.25	33	-14.75
				75	0	21.45	18.30	33	-14.7
	39725	2503.5	64QAM	1	0	22.13	18.98	33	-14.02
				1	74	21.98	18.83	33	-14.17
				36	18	21.27	18.12	33	-14.88
				75	0	21.16	18.01	33	-14.99
	40620	2593	64QAM	1	0	21.61	18.46	33	-14.54
				1	74	21.45	18.30	33	-14.7
				36	18	20.94	17.79	33	-15.21
				75	0	20.87	17.72	33	-15.28
	41515	2682.5	64QAM	1	0	22.45	19.30	33	-13.7
				1	74	22.15	19.00	33	-14
				36	18	21.89	18.74	33	-14.26
				75	0	21.88	18.73	33	-14.27

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Antenna gain (dBi) -3.15

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	23.07	19.92	33	-13.08
				1	99	22.71	19.56	33	-13.44
				50	25	22.95	19.80	33	-13.2
				100	0	22.98	19.83	33	-13.17
	40620	2593	QPSK	1	0	22.55	19.40	33	-13.6
				1	99	22.74	19.59	33	-13.41
				50	25	22.64	19.49	33	-13.51
				100	0	22.64	19.49	33	-13.51
	41490	2680	QPSK	1	0	23.83	20.68	33	-12.32
				1	99	23.51	20.36	33	-12.64
				50	25	22.92	19.77	33	-13.23
				100	0	22.95	19.80	33	-13.2
	39750	2506	16QAM	1	0	22.97	19.82	33	-13.18
				1	99	22.96	19.81	33	-13.19
				50	25	21.69	18.54	33	-14.46
				100	0	21.68	18.53	33	-14.47
	40620	2593	16QAM	1	0	22.71	19.56	33	-13.44
				1	99	22.97	19.82	33	-13.18
				50	25	21.38	18.23	33	-14.77
				100	0	21.32	18.17	33	-14.83
	41490	2680	16QAM	1	0	22.90	19.75	33	-13.25
				1	99	22.90	19.75	33	-13.25
				50	25	21.95	18.80	33	-14.2
				100	0	21.93	18.78	33	-14.22
	39750	2506	64QAM	1	0	22.92	19.77	33	-13.23
				1	99	22.99	19.84	33	-13.16
				50	25	20.78	17.63	33	-15.37
				100	0	20.86	17.71	33	-15.29
	40620	2593	64QAM	1	0	22.72	19.57	33	-13.43
				1	99	22.99	19.84	33	-13.16
				50	25	20.37	17.22	33	-15.78
				100	0	20.50	17.35	33	-15.65
	41490	2680	64QAM	1	0	22.93	19.78	33	-13.22
				1	99	22.90	19.75	33	-13.25
				50	25	21.49	18.34	33	-14.66
				100	0	21.39	18.24	33	-14.76

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Antenna gain (dBi) -5.34

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	22.86	17.52	30	-12.48
				1	5	22.95	17.61	30	-12.39
				3	2	22.85	17.51	30	-12.49
				6	0	21.94	16.60	30	-13.4
	132322	1745	QPSK	1	0	22.98	17.64	30	-12.36
				1	5	22.97	17.63	30	-12.37
				3	2	22.92	17.58	30	-12.42
				6	0	22.05	16.71	30	-13.29
	132665	1779.3	QPSK	1	0	22.91	17.57	30	-12.43
				1	5	22.83	17.49	30	-12.51
				3	2	22.84	17.50	30	-12.5
				6	0	21.85	16.51	30	-13.49
	131979	1710.7	16QAM	1	0	22.21	16.87	30	-13.13
				1	5	22.30	16.96	30	-13.04
				3	2	21.99	16.65	30	-13.35
				6	0	21.17	15.83	30	-14.17
	132322	1745	16QAM	1	0	22.29	16.95	30	-13.05
				1	5	22.75	17.41	30	-12.59
				3	2	21.90	16.56	30	-13.44
				6	0	21.02	15.68	30	-14.32
	132665	1779.3	16QAM	1	0	22.23	16.89	30	-13.11
				1	5	22.27	16.93	30	-13.07
				3	2	21.96	16.62	30	-13.38
				6	0	21.01	15.67	30	-14.33
	131979	1710.7	64QAM	1	0	22.45	17.11	30	-12.89
				1	5	22.06	16.72	30	-13.28
				3	2	20.94	15.60	30	-14.4
				6	0	20.91	15.57	30	-14.43
	132322	1745	64QAM	1	0	22.33	16.99	30	-13.01
				1	5	22.31	16.97	30	-13.03
				3	2	20.87	15.53	30	-14.47
				6	0	21.09	15.75	30	-14.25
	132665	1779.3	64QAM	1	0	22.23	16.89	30	-13.11
				1	5	21.90	16.56	30	-13.44
				3	2	21.03	15.69	30	-14.31
				6	0	21.03	15.69	30	-14.31

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Antenna gain (dBi) -5.34

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.01	17.67	30	-12.33
				1	14	22.83	17.49	30	-12.51
				8	4	21.92	16.58	30	-13.42
				15	0	21.93	16.59	30	-13.41
	132322	1745	QPSK	1	0	22.84	17.50	30	-12.5
				1	14	22.95	17.61	30	-12.39
				8	4	22.02	16.68	30	-13.32
				15	0	22.02	16.68	30	-13.32
	132657	1778.5	QPSK	1	0	22.95	17.61	30	-12.39
				1	14	22.87	17.53	30	-12.47
				8	4	21.87	16.53	30	-13.47
				15	0	21.88	16.54	30	-13.46
	131987	1711.5	16QAM	1	0	22.58	17.24	30	-12.76
				1	14	22.31	16.97	30	-13.03
				8	4	21.02	15.68	30	-14.32
				15	0	21.13	15.79	30	-14.21
	132322	1745	16QAM	1	0	22.27	16.93	30	-13.07
				1	14	21.79	16.45	30	-13.55
				8	4	21.18	15.84	30	-14.16
				15	0	20.98	15.64	30	-14.36
	132657	1778.5	16QAM	1	0	22.59	17.25	30	-12.75
				1	14	21.93	16.59	30	-13.41
				8	4	21.01	15.67	30	-14.33
				15	0	20.90	15.56	30	-14.44
	131987	1711.5	64QAM	1	0	22.54	17.20	30	-12.8
				1	14	22.07	16.73	30	-13.27
				8	4	20.93	15.59	30	-14.41
				15	0	21.10	15.76	30	-14.24
	132322	1745	64QAM	1	0	22.44	17.10	30	-12.9
				1	14	22.29	16.95	30	-13.05
				8	4	20.95	15.61	30	-14.39
				15	0	21.06	15.72	30	-14.28
	132657	1778.5	64QAM	1	0	22.18	16.84	30	-13.16
				1	14	22.00	16.66	30	-13.34
				8	4	20.84	15.50	30	-14.5
				15	0	21.08	15.74	30	-14.26

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Antenna gain (dBi) -5.34

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	22.92	17.58	30	-12.42
				1	24	22.91	17.57	30	-12.43
				12	6	21.96	16.62	30	-13.38
				25	0	21.91	16.57	30	-13.43
	132322	1745	QPSK	1	0	23.08	17.74	30	-12.26
				1	24	23.10	17.76	30	-12.24
				12	6	22.08	16.74	30	-13.26
				25	0	22.08	16.74	30	-13.26
	132647	1777.5	QPSK	1	0	22.99	17.65	30	-12.35
				1	24	22.94	17.60	30	-12.4
				12	6	22.08	16.74	30	-13.26
				25	0	22.02	16.68	30	-13.32
	131997	1712.5	16QAM	1	0	22.43	17.09	30	-12.91
				1	24	21.48	16.14	30	-13.86
				12	6	21.17	15.83	30	-14.17
				25	0	21.11	15.77	30	-14.23
	132322	1745	16QAM	1	0	22.48	17.14	30	-12.86
				1	24	22.26	16.92	30	-13.08
				12	6	21.18	15.84	30	-14.16
				25	0	21.17	15.83	30	-14.17
	132647	1777.5	16QAM	1	0	22.37	17.03	30	-12.97
				1	24	22.24	16.90	30	-13.1
				12	6	21.15	15.81	30	-14.19
				25	0	21.17	15.83	30	-14.17
	131997	1712.5	64QAM	1	0	22.61	17.27	30	-12.73
				1	24	22.01	16.67	30	-13.33
				12	6	21.05	15.71	30	-14.29
				25	0	20.99	15.65	30	-14.35
	132322	1745	64QAM	1	0	22.42	17.08	30	-12.92
				1	24	22.35	17.01	30	-12.99
				12	6	20.91	15.57	30	-14.43
				25	0	21.05	15.71	30	-14.29
	132647	1777.5	64QAM	1	0	22.23	16.89	30	-13.11
				1	24	21.92	16.58	30	-13.42
				12	6	20.92	15.58	30	-14.42
				25	0	21.01	15.67	30	-14.33

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Antenna gain (dBi) -5.34

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.09	17.75	30	-12.25
				1	49	22.91	17.57	30	-12.43
				25	12	21.93	16.59	30	-13.41
				50	0	21.86	16.52	30	-13.48
	132322	1745	QPSK	1	0	22.98	17.64	30	-12.36
				1	49	23.04	17.70	30	-12.3
				25	12	22.02	16.68	30	-13.32
				50	0	22.01	16.67	30	-13.33
	132622	1775	QPSK	1	0	23.26	17.92	30	-12.08
				1	49	22.91	17.57	30	-12.43
				25	12	21.92	16.58	30	-13.42
				50	0	21.95	16.61	30	-13.39
	132022	1715	16QAM	1	0	22.60	17.26	30	-12.74
				1	49	22.62	17.28	30	-12.72
				25	12	20.99	15.65	30	-14.35
				50	0	20.89	15.55	30	-14.45
	132322	1745	16QAM	1	0	22.46	17.12	30	-12.88
				1	49	22.44	17.10	30	-12.9
				25	12	21.12	15.78	30	-14.22
				50	0	21.03	15.69	30	-14.31
	132622	1775	16QAM	1	0	22.65	17.31	30	-12.69
				1	49	22.09	16.75	30	-13.25
				25	12	20.96	15.62	30	-14.38
				50	0	20.95	15.61	30	-14.39
	132022	1715	64QAM	1	0	22.44	17.10	30	-12.9
				1	49	21.97	16.63	30	-13.37
				25	12	20.93	15.59	30	-14.41
				50	0	20.94	15.60	30	-14.4
	132322	1745	64QAM	1	0	22.49	17.15	30	-12.85
				1	49	22.37	17.03	30	-12.97
				25	12	20.94	15.60	30	-14.4
				50	0	20.92	15.58	30	-14.42
	132622	1775	64QAM	1	0	22.25	16.91	30	-13.09
				1	49	22.03	16.69	30	-13.31
				25	12	21.02	15.68	30	-14.32
				50	0	21.04	15.70	30	-14.3

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Antenna gain (dBi) -5.34

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.25	17.91	30	-12.09
				1	74	22.87	17.53	30	-12.47
				36	18	22.02	16.68	30	-13.32
				75	0	22.00	16.66	30	-13.34
	132322	1745	QPSK	1	0	23.18	17.84	30	-12.16
				1	74	22.97	17.63	30	-12.37
				36	18	21.97	16.63	30	-13.37
				75	0	22.00	16.66	30	-13.34
	132597	1772.5	QPSK	1	0	23.12	17.78	30	-12.22
				1	74	22.75	17.41	30	-12.59
				36	18	21.91	16.57	30	-13.43
				75	0	21.99	16.65	30	-13.35
	132047	1717.5	16QAM	1	0	22.54	17.20	30	-12.8
				1	74	21.99	16.65	30	-13.35
				36	18	21.05	15.71	30	-14.29
				75	0	21.01	15.67	30	-14.33
	132322	1745	16QAM	1	0	22.64	17.30	30	-12.7
				1	74	22.14	16.80	30	-13.2
				36	18	21.15	15.81	30	-14.19
				75	0	21.06	15.72	30	-14.28
	132597	1772.5	16QAM	1	0	22.53	17.19	30	-12.81
				1	74	22.33	16.99	30	-13.01
				36	18	20.99	15.65	30	-14.35
				75	0	21.00	15.66	30	-14.34
	132047	1717.5	64QAM	1	0	22.55	17.21	30	-12.79
				1	74	21.89	16.55	30	-13.45
				36	18	20.93	15.59	30	-14.41
				75	0	20.95	15.61	30	-14.39
	132322	1745	64QAM	1	0	22.40	17.06	30	-12.94
				1	74	22.25	16.91	30	-13.09
				36	18	20.88	15.54	30	-14.46
				75	0	20.97	15.63	30	-14.37
	132597	1772.5	64QAM	1	0	22.11	16.77	30	-13.23
				1	74	22.02	16.68	30	-13.32
				36	18	20.92	15.58	30	-14.42
				75	0	21.04	15.70	30	-14.3

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Antenna gain (dBi) -5.34

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	22.99	17.65	30	-12.35
				1	99	23.04	17.70	30	-12.3
				50	25	22.00	16.66	30	-13.34
				100	0	22.11	16.77	30	-13.23
	132322	1745	QPSK	1	0	23.09	17.75	30	-12.25
				1	99	23.03	17.69	30	-12.31
				50	25	21.97	16.63	30	-13.37
				100	0	22.04	16.70	30	-13.3
	132572	1770	QPSK	1	0	23.06	17.72	30	-12.28
				1	99	23.05	17.71	30	-12.29
				50	25	22.02	16.68	30	-13.32
				100	0	22.09	16.75	30	-13.25
	132072	1720	16QAM	1	0	22.63	17.29	30	-12.71
				1	99	22.09	16.75	30	-13.25
				50	25	21.08	15.74	30	-14.26
				100	0	21.10	15.76	30	-14.24
	132322	1745	16QAM	1	0	22.50	17.16	30	-12.84
				1	99	22.45	17.11	30	-12.89
				50	25	21.05	15.71	30	-14.29
				100	0	21.10	15.76	30	-14.24
	132572	1770	16QAM	1	0	22.31	16.97	30	-13.03
				1	99	22.09	16.75	30	-13.25
				50	25	21.03	15.69	30	-14.31
				100	0	21.15	15.81	30	-14.19
	132072	1720	64QAM	1	0	22.53	17.19	30	-12.81
				1	99	22.06	16.72	30	-13.28
				50	25	20.89	15.55	30	-14.45
				100	0	20.99	15.65	30	-14.35
	132322	1745	64QAM	1	0	22.31	16.97	30	-13.03
				1	99	22.27	16.93	30	-13.07
				50	25	21.01	15.67	30	-14.33
				100	0	20.98	15.64	30	-14.36
	132572	1770	64QAM	1	0	22.24	16.90	30	-13.1
				1	99	22.07	16.73	30	-13.27
				50	25	20.86	15.52	30	-14.48
				100	0	21.14	15.80	30	-14.2

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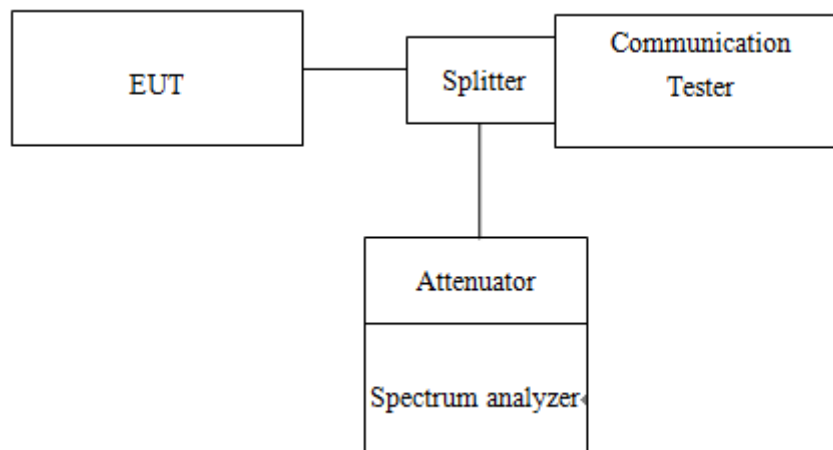
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7. OCCUPIED BANDWIDTH MEASUREMENT

7.1. Standard Applicable

The occupied bandwidth is the frequency bandwidth such that, below its lower and above its upper frequency limits, the mean powers radiated are each equal to 0.5 percent of the total mean power.

7.2. Test Set-up



7.3. Measurement Procedure

99% & 26dB Bandwidth with detector peak

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

99% Bandwidth with detector sample

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

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7.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Spectrum Analyzer	Agilent	N9010A	MY51440113	2018/06/20	2019/06/19
Radio Communication Analyer	Anritsu	MT8820C	6201107337	2018/06/15	2019/06/14
DC Power Supply	Agilent	E3640A	MY53140006	2018/05/30	2019/05/29
Attenuator	Marvelous	MVE2213-10	RF30	2017/12/26	2018/12/25
Splitter	Woken	DOM35LW1A2	RF36	2017/12/26	2018/12/25
DC Block	PASTERNAK	PE8210	RF29	2017/12/26	2018/12/25

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7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.07530	4.07920	4.07880	4.642	4.663	4.667
1880.00	9400	4.09130	4.08470	4.07950	4.704	4.672	4.697
1907.60	9538	4.08850	4.09220	4.09160	4.699	4.707	4.686

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA IV	HSDPA IV	HSUPA IV	WCDMA IV	HSDPA IV	HSUPA IV
1712.40	1312	4.05630	4.07330	4.06940	4.609	4.601	4.613
1732.60	1413	4.07070	4.07930	4.08020	4.638	4.648	4.644
1752.60	1513	4.07070	4.06230	4.06760	4.616	4.608	4.621

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	4.08860	4.09120	4.08890	4.640	4.701	4.680
836.60	4183	4.07990	4.07720	4.08990	4.729	4.700	4.723
846.60	4233	4.09280	4.10320	4.09750	4.920	4.787	4.936

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LTE BAND 2 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	18607	1.1128	1.1079	1.1048	1.264	1.267	1.254
1880.0	18900	1.1081	1.1114	1.1062	1.256	1.263	1.254
1909.3	19193	1.1114	1.1170	1.1041	1.527	1.265	1.253

LTE BAND 2 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	18615	2.7279	2.7235	2.7164	3.142	3.013	3.011
1880.0	18900	2.7314	2.7304	2.7282	3.202	3.202	3.364
1908.5	19185	2.7320	2.7204	2.7249	3.379	2.989	3.003

LTE BAND 2 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	18625	4.5455	4.5231	4.5132	5.301	4.956	5.013
1880.0	18900	4.5508	4.5265	4.6318	5.085	5.172	9.528
1907.5	19175	4.5461	4.5233	4.5685	5.762	5.150	8.838

LTE BAND 2 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	18650	9.0872	9.1311	9.0871	10.606	10.605	10.569
1880.0	18900	9.1014	9.1196	9.3239	10.659	10.418	16.926
1905.0	19150	9.0542	9.0620	9.0882	10.583	10.571	10.482

LTE BAND 2 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	18675	13.627	13.584	13.544	16.100	15.946	16.087
1880.0	18900	13.535	13.576	13.555	15.697	16.333	15.463
1902.5	19125	13.488	13.524	13.494	16.020	16.065	15.641

LTE BAND 2 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	18700	18.109	18.054	18.046	20.352	20.079	20.261
1880.0	18900	18.015	18.054	17.996	20.645	20.817	23.629
1900.0	19100	18.005	17.934	17.934	20.233	19.933	19.986

LTE BAND 4 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	19957	1.1069	1.1142	1.1042	1.265	1.264	1.793
1732.5	20175	1.1105	1.1096	1.1101	1.256	1.256	0.000
1754.3	20393	1.1052	1.1077	1.1073	1.258	1.255	0.000

LTE BAND 4 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	19965	2.7209	2.7218	2.7139	3.004	3.023	3.003
1732.5	20175	2.7136	2.7199	2.7243	3.031	3.012	3.009
1753.5	20385	2.7341	2.7201	2.7170	3.006	3.020	2.998

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19957	4.5159	4.5235	4.5131	5.009	4.985	4.954
1732.5	20175	4.5307	4.5179	4.5183	4.960	4.969	5.606
1752.5	20375	4.5248	4.5066	4.5067	5.027	4.961	4.966

LTE BAND 4 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	20000	9.0816	9.0447	9.0517	10.533	10.408	10.535
1732.5	20175	9.0700	9.0917	9.0908	10.470	10.608	10.356
1750.0	20350	9.0444	9.0718	9.0601	10.423	10.550	10.569

LTE BAND 4 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	20025	13.518	13.498	13.512	15.476	15.598	15.477
1732.5	20175	13.578	13.573	13.559	15.939	15.955	15.679
1747.5	20325	13.562	13.517	13.553	15.791	15.774	15.878

LTE BAND 4 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	20050	17.932	17.950	17.907	19.932	20.025	22.815
1732.5	20175	18.084	18.033	18.039	20.078	20.075	19.835
1745.0	20300	18.033	18.070	18.060	20.209	20.128	20.185

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LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.1084	1.1197	1.1103	1.256	1.479	1.258
836.5	20525	1.1133	1.1214	1.1032	1.270	1.855	1.259
848.3	20643	1.1282	1.1489	1.1132	1.793	2.217	1.703

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.7343	2.7230	2.7228	3.115	3.011	3.004
836.5	20525	2.7193	2.7321	2.7189	3.111	3.651	3.010
847.5	20635	2.7363	2.7293	2.7239	3.451	3.783	3.217

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.5364	4.5258	4.5333	5.020	4.968	4.926
836.5	20525	4.5144	4.5123	4.5063	4.975	6.279	5.101
846.5	20625	4.5439	4.5488	4.5383	5.358	6.257	4.959

LTE BAND 5 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	20450	9.1385	9.1424	9.1274	10.557	10.683	10.610
836.5	20525	9.0312	9.0647	9.0115	10.422	10.579	10.589
844.0	20600	9.1923	9.2590	9.1543	11.379	13.790	10.920

LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	4.5473	4.5375	4.5267	6.805	6.361	6.016
2535.0	21100	4.5384	4.5070	4.5180	5.034	4.944	4.924
2567.5	21425	4.5289	4.5185	4.5278	5.565	4.930	4.967

LTE BAND 7 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2505.0	20800	9.1117	9.0956	9.1393	12.068	11.802	12.991
2535.0	21100	9.0671	9.0397	9.0653	10.474	10.466	10.586
2565.0	21400	9.0721	9.0622	9.0799	10.474	10.607	10.679

LTE BAND 7 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2507.5	20825	13.587	13.572	13.593	17.419	16.774	23.326
2535.0	21100	13.590	13.547	13.568	15.795	15.784	15.781
2562.5	21375	13.569	13.529	13.558	15.731	15.711	16.186

LTE BAND 7 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2510.0	20850	18.059	18.017	18.122	22.170	21.347	27.900
2535.0	21100	18.043	18.028	18.027	20.296	20.126	20.311
2560.0	21350	18.036	18.021	18.054	20.437	22.428	20.425

LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.1059	1.1156	1.1027	1.266	1.444	1.262
707.5	23095	1.1043	1.1110	1.1010	1.244	1.252	1.256
715.3	23173	1.1058	1.1122	1.1102	1.313	1.431	1.255

LTE BAND 12 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
700.5	23025	2.7189	2.7238	2.7147	3.021	3.013	3.002
707.5	23095	2.7077	2.7189	2.7109	3.000	3.016	3.002
714.5	23165	2.7251	2.7312	2.7162	3.008	3.019	2.990

LTE BAND 12 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
701.5	23035	4.5354	4.5325	4.5101	5.002	5.191	4.935
707.5	23095	4.5100	4.5065	4.5057	4.935	4.925	4.919
713.5	23155	4.5589	4.5314	4.5219	5.136	6.238	4.952

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	9.1326	9.1628	9.1172	10.448	10.883	10.560
707.5	23095	9.0272	9.0492	9.0370	10.400	10.466	10.397
711.0	23130	9.0291	9.0278	9.0323	10.448	10.355	10.406

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.5295	4.5254	4.5483	5.001	4.949	5.105
782.0	23230	4.4977	4.5084	4.5213	4.915	4.939	6.189
784.5	23255	4.5048	4.5126	4.5089	4.943	4.914	6.027

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	9.014	9.010	9.039	10.378	10.425	10.671

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LTE BAND 14 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
790.5	23305	4.5310	4.5316	4.5211	5.795	6.477	5.783
793.0	23330	4.5469	4.5312	4.5010	5.904	6.977	4.934
795.5	23355	4.5352	4.5436	4.5199	6.056	7.192	6.154

LTE BAND 14 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
793.0	23330	9.032	9.056	9.074	11.030	11.390	16.460

LTE BAND 17 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
706.5	23755	4.5170	4.5074	4.5132	4.962	4.931	4.948
710.0	23790	4.5154	4.5137	4.5062	4.965	4.941	4.949
713.5	23825	4.5328	4.5317	4.5174	4.973	6.069	4.977

LTE BAND 17 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
709.0	23780	9.0193	9.0098	9.0484	10.538	10.400	10.411
710.0	23790	9.0160	9.0222	9.0065	10.363	10.429	10.389
711.0	23800	9.0253	9.0650	9.0275	10.437	10.558	10.485

LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	1.1148	1.1034	1.1043	1.257	1.262	1.245
1882.5	26365	1.1043	1.1038	1.1011	1.254	1.247	1.254
1914.3	26683	1.1245	1.1047	1.1054	1.972	1.271	1.256

LTE BAND 25 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1851.5	26055	2.7231	2.7312	2.7089	3.143	3.067	3.000
1882.5	26365	2.7269	2.7210	2.7232	3.023	3.004	2.997
1913.5	26675	2.7366	2.7214	2.7188	3.826	3.021	2.983

LTE BAND 25 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.5314	4.5136	4.5002	5.142	4.966	4.936
1882.5	26365	4.5134	4.5059	4.4948	4.991	4.947	4.956
1912.5	26665	4.5246	4.5078	4.4985	4.979	5.087	4.918

LTE BAND 25 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1855.0	26090	9.0846	9.0681	9.0383	10.604	10.530	10.408
1882.5	26365	9.0879	9.0488	9.0451	10.602	10.506	10.428
1910.0	26640	9.0458	9.0234	9.0539	10.667	10.430	10.531

LTE BAND 25 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.608	13.575	13.534	15.811	15.797	15.519
1882.5	26365	13.548	13.545	13.504	15.608	15.821	15.480
1907.5	26615	13.552	13.549	13.558	16.366	16.120	15.556

LTE BAND 25 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1860.0	26140	18.0250	17.9860	17.9860	21.009	20.096	19.872
1882.5	26365	18.0080	17.9810	17.9840	19.932	19.941	19.869
1905.0	26590	18.0540	18.0190	18.0140	20.242	20.054	19.750

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LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	26797	1.1024	1.1012	1.1020	1.258	1.255	1.249
836.5	26915	1.1078	1.1047	1.1063	1.271	1.268	1.258
848.3	27033	1.1275	1.1341	1.1125	1.881	1.590	1.573

LTE BAND 26 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	26805	2.7360	2.7208	2.7253	3.102	3.018	3.002
836.5	26915	2.7234	2.7290	2.7199	3.173	3.064	2.995
847.5	27025	2.7255	2.7402	2.7142	3.294	4.111	3.000

LTE BAND 26 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	26815	4.5255	4.5223	4.5191	4.957	4.954	4.940
836.5	26915	4.5181	4.5252	4.5118	5.185	5.101	4.952
846.5	27015	4.5307	4.5348	4.5196	5.221	5.417	4.943

LTE BAND 26 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	26840	9.1082	9.0938	9.1178	10.554	10.504	10.486
836.5	26915	9.0149	9.0112	9.0327	10.288	10.580	10.343
844.0	26990	9.1680	9.1795	9.1676	10.998	11.958	10.549

LTE BAND 26 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
831.5	26865	13.594	13.616	13.612	15.534	16.097	15.790
836.5	26915	13.441	13.464	13.464	15.533	15.515	15.321
841.5	26965	13.578	13.592	13.542	15.693	15.797	15.747

LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.1080	1.1052	1.0990	1.252	1.254	1.257
819.0	26740	1.1077	1.1086	1.1089	1.564	1.259	1.440
823.3	26783	1.1126	1.1146	1.1101	1.279	1.266	1.253

LTE BAND 26 for part 90S Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
815.5	26705	2.7220	2.7231	2.7118	2.987	3.011	2.998
819.0	26740	2.7226	2.7313	2.7199	3.133	3.287	3.007
822.5	26775	2.7366	2.7294	2.7231	3.533	3.250	3.010

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.5228	4.5259	4.5124	5.107	5.008	5.008
819.0	26740	4.5202	4.5056	4.5103	4.959	4.977	5.209
821.5	26765	4.5420	4.5313	4.5031	5.633	5.795	4.950

LTE BAND 26 for part 90S Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
819.0	26740	9.0343	9.0116	9.0237	10.378	10.482	10.465

LTE BAND 30 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2307.5	27685	4.5096	4.5011	4.5072	4.993	4.920	4.957
2310.0	27710	4.5283	4.5050	4.5107	5.041	4.947	4.937
2312.5	27735	4.5323	4.5210	4.5171	5.095	4.947	4.924

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
2310.0	27710	9.0860	9.0682	9.0546	10.579	10.601	10.309

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LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	4.5361	4.5155	4.5010	5.112	4.934	4.896
2595.0	38000	4.5189	4.5360	4.5169	5.104	6.367	4.950
2617.5	38225	4.5327	4.5947	4.5243	4.930	8.567	4.920

LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	9.0721	9.1347	9.0068	10.529	12.479	10.362
2595.0	38000	9.0363	9.0669	9.0446	10.423	12.087	10.480
2615.0	38200	9.0428	9.1996	9.0433	10.415	17.392	10.438

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.522	13.583	13.498	16.129	16.499	15.664
2595.0	38000	13.557	13.632	13.504	15.747	18.429	15.352
2612.5	38175	13.518	13.676	13.495	15.521	25.523	15.407

LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	17.976	18.143	17.959	19.913	23.668	21.163
2595.0	38000	17.995	18.085	17.950	19.853	25.024	19.643
2610.0	38150	17.965	18.126	17.977	19.954	34.925	20.696

LTE BAND 41 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2498.5	39675	4.5258	4.5284	4.5016	5.313	6.684	4.930
2593.0	40620	4.5177	4.5149	4.5198	4.973	4.944	4.892
2687.5	41565	4.5186	4.5113	4.5081	4.987	4.927	5.084

LTE BAND 41 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2501.0	39700	9.0703	9.0757	9.0394	10.553	11.026	10.483
2593.0	40620	9.0466	9.0908	9.0367	10.423	10.442	10.461
2685.0	41540	9.0604	9.0719	9.0227	10.478	11.507	10.322

LTE BAND 41 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.519	13.534	13.483	16.041	15.720	14.919
2593.0	40620	13.566	13.588	13.560	15.817	16.065	15.821
2682.5	41515	13.508	13.564	13.484	15.950	16.018	15.879

LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	18.021	18.065	17.954	20.495	20.609	20.318
2593.0	40620	18.084	18.006	17.968	19.836	21.054	19.879
2680.0	41490	17.991	18.024	17.984	19.852	20.178	20.700

LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.1090	1.1079	1.1017	1.254	1.256	1.257
1745.0	132322	1.1051	1.1128	1.1056	1.253	1.254	1.252
1779.3	132665	1.1036	1.1116	1.1022	1.254	1.257	1.251

LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	131987	2.7205	2.7196	2.7194	3.004	2.998	3.015
1745.0	132322	2.7177	2.7122	2.7081	3.006	3.006	2.996
1778.5	132657	2.7179	2.7204	2.7111	3.011	3.019	3.013

LTE BAND 66 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	131997	4.5077	4.5260	4.5005	4.944	4.990	4.955
1745.0	132322	4.5150	4.5332	4.5014	4.996	4.945	4.962
1777.5	132647	4.5151	4.5255	4.5027	4.993	4.992	4.936

LTE BAND 66 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1715.0	132022	9.0283	9.0368	9.0231	10.417	10.466	13.179
1745.0	132322	9.0612	9.0818	9.0677	10.482	10.569	10.551
1775.0	132622	9.0835	9.0668	9.1075	10.561	10.565	10.450

LTE BAND 66 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1717.5	132047	13.4790	13.4720	13.4820	15.661	15.578	15.326
1745.0	132322	13.5470	13.5440	13.5560	15.948	15.862	15.638
1772.5	132597	13.5420	13.5530	13.5470	15.768	15.619	15.376

LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	132072	17.9450	17.9440	17.9520	19.911	19.862	20.889
1745.0	132322	18.0340	18.0310	18.0220	20.465	20.090	20.036
1770.0	132572	18.0130	18.0090	17.9530	20.506	20.182	19.995

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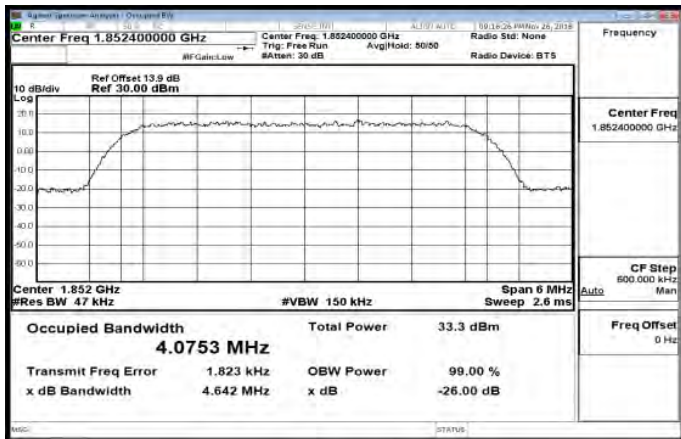
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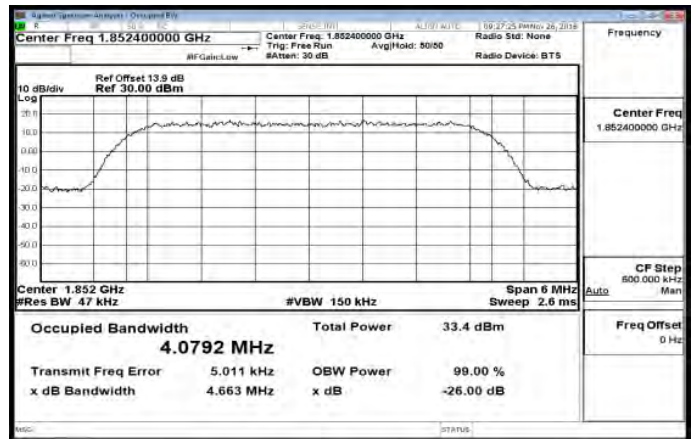
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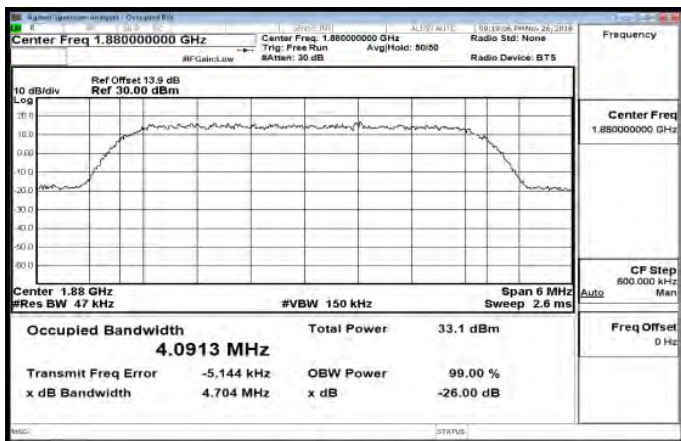
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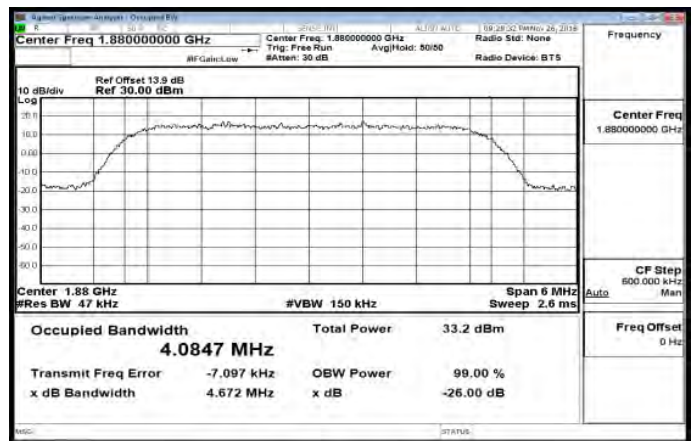
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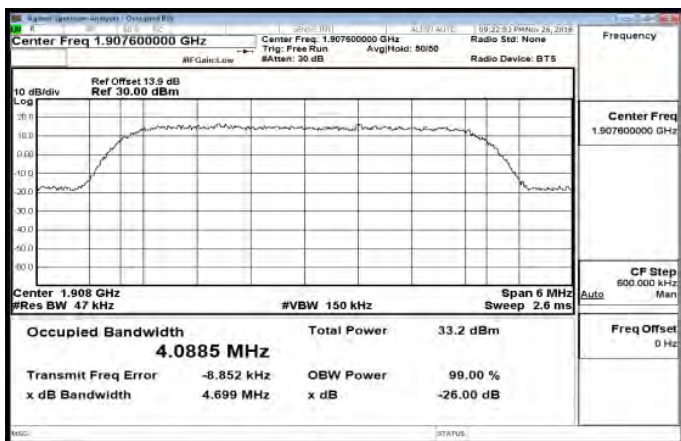
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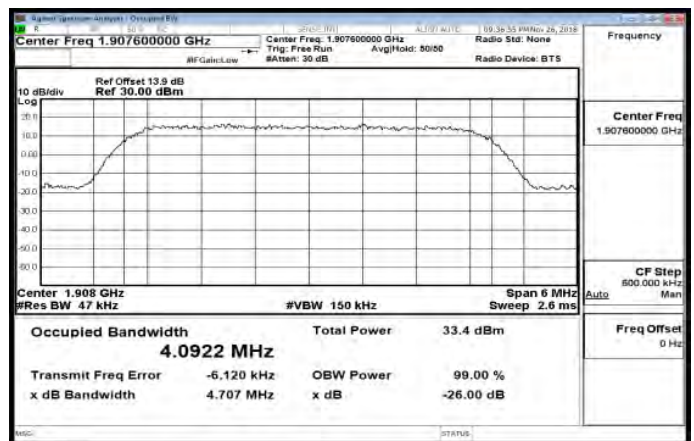
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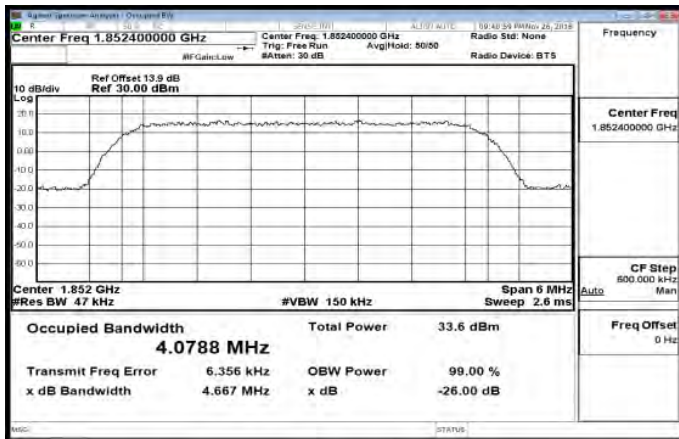
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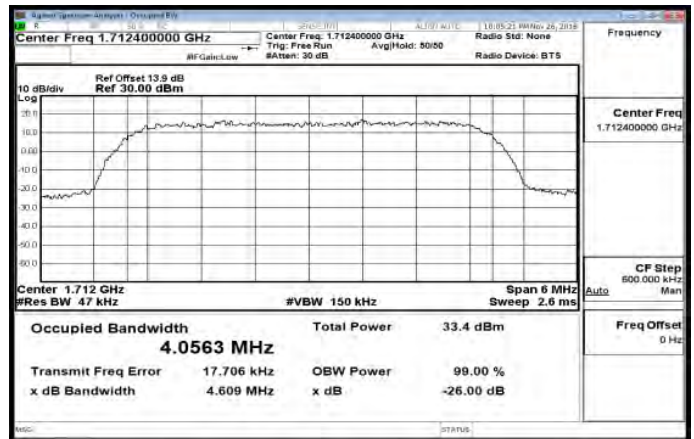
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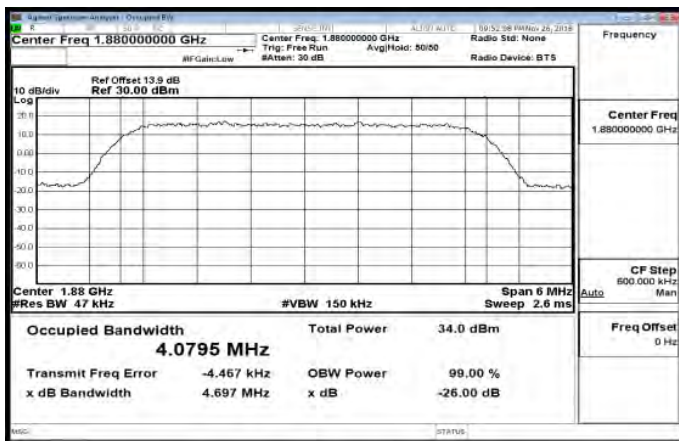
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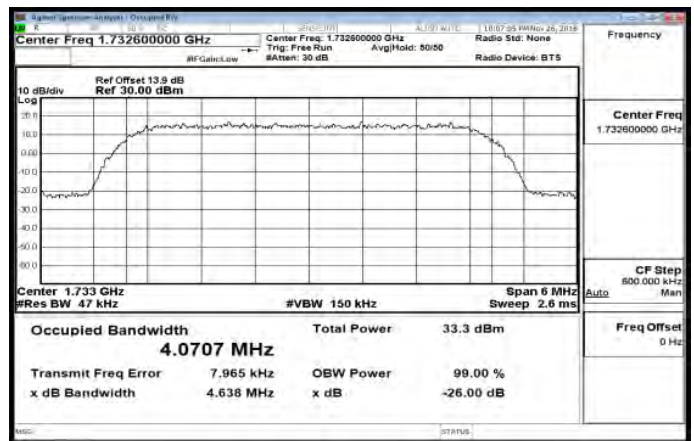
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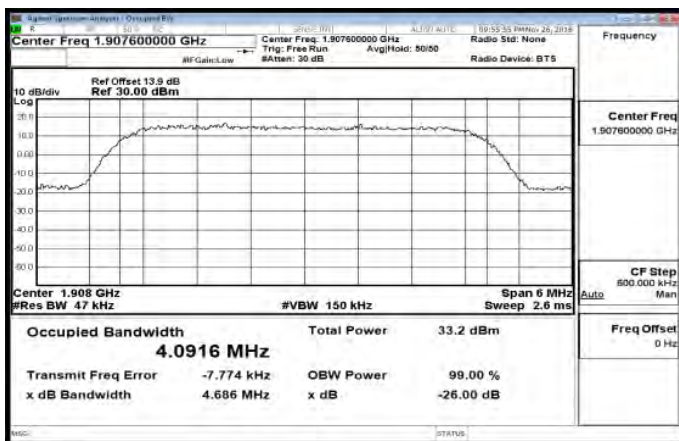
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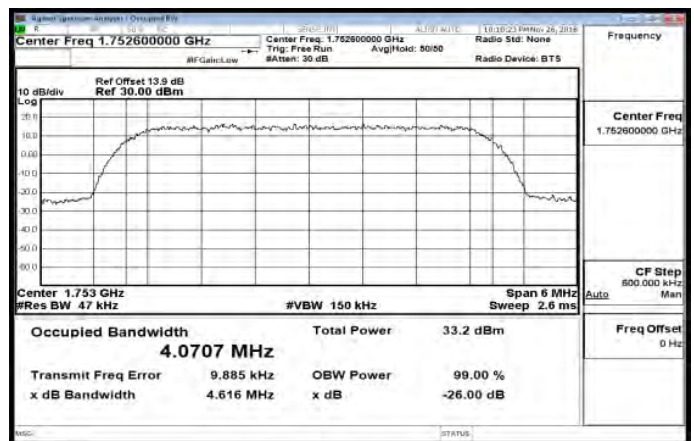
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HSUPA_B2_HighCH9538-1907.6



WCDMA_B4_HighCH1513-1752.6



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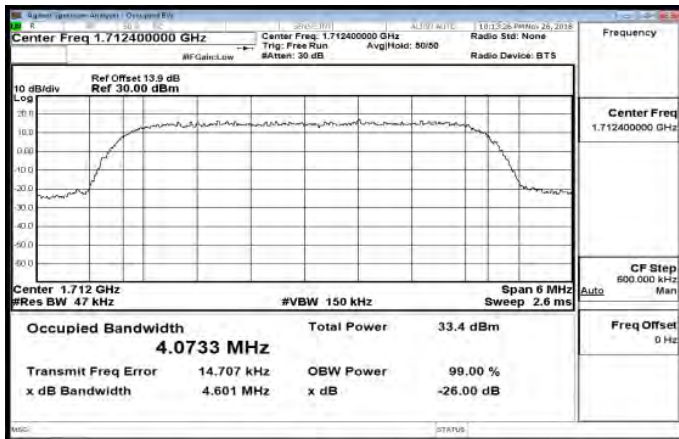
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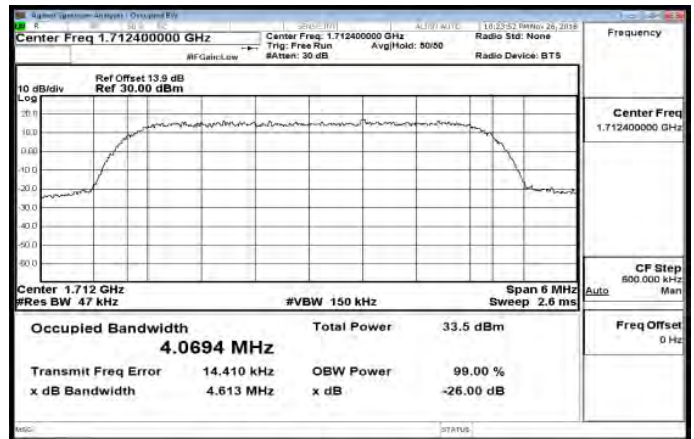
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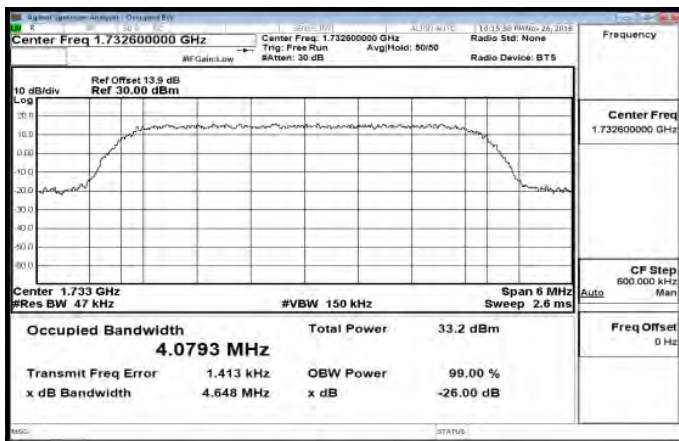
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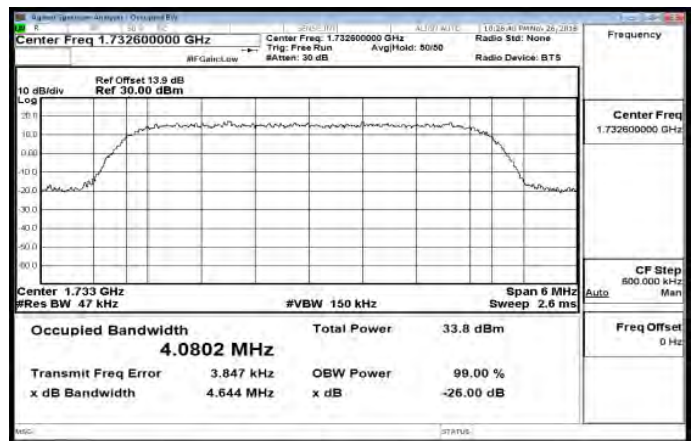
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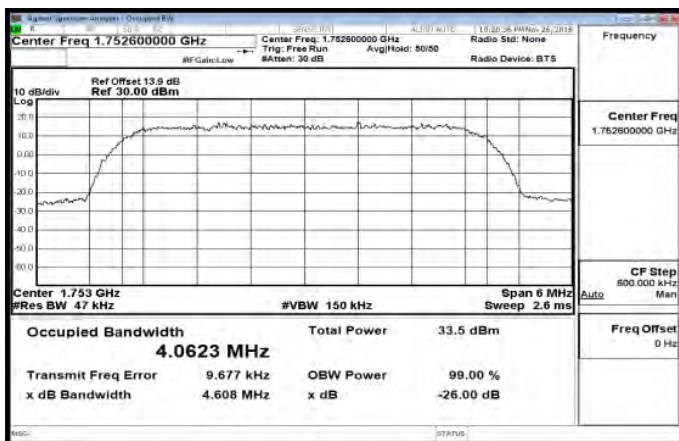
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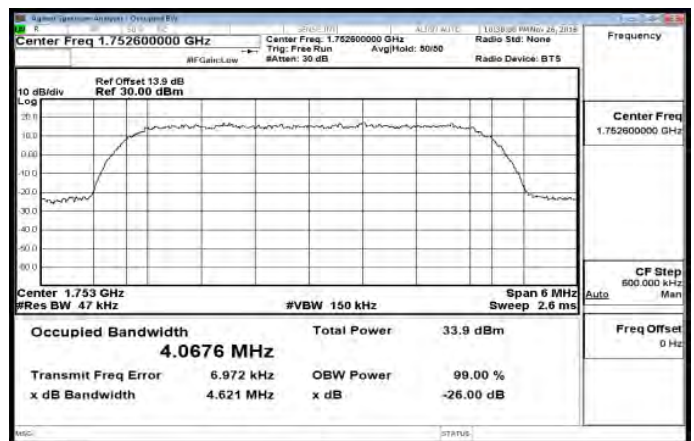
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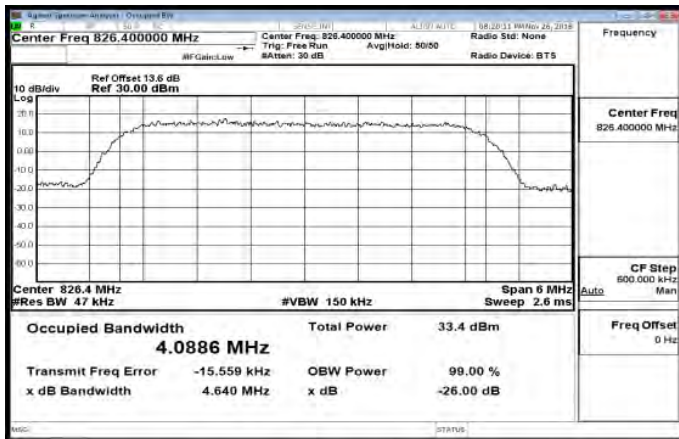
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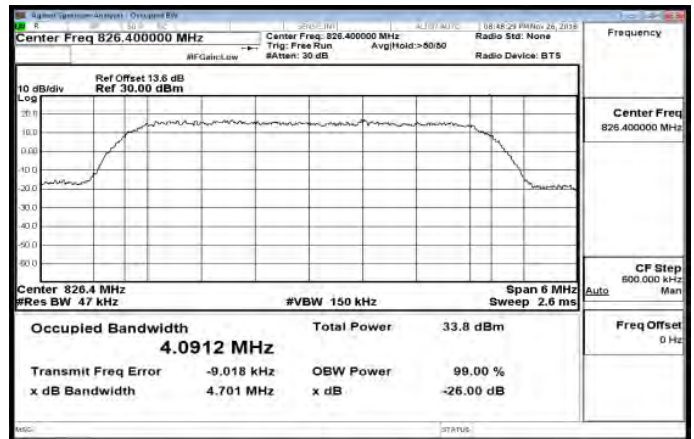
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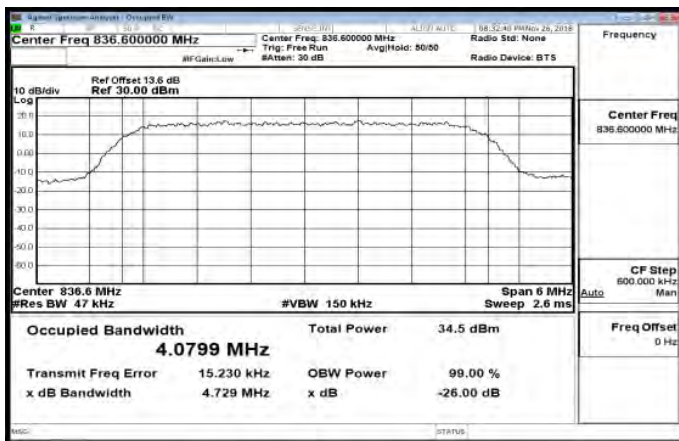
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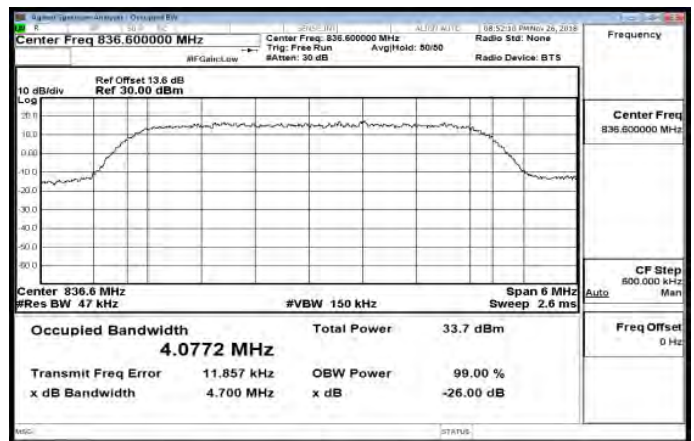
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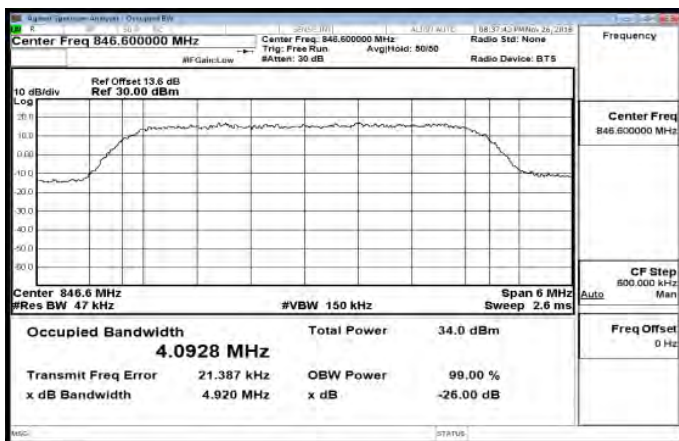
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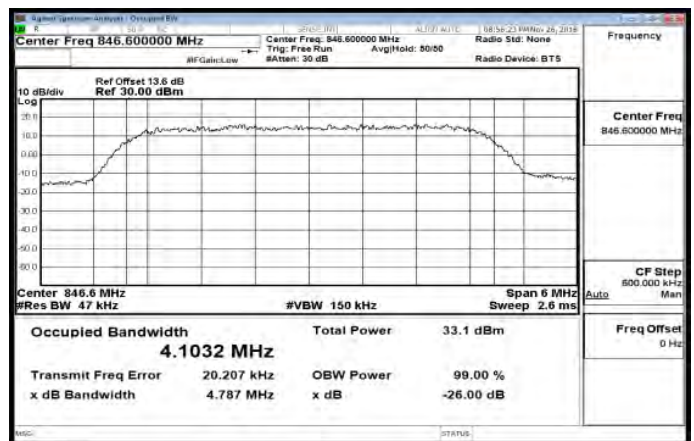
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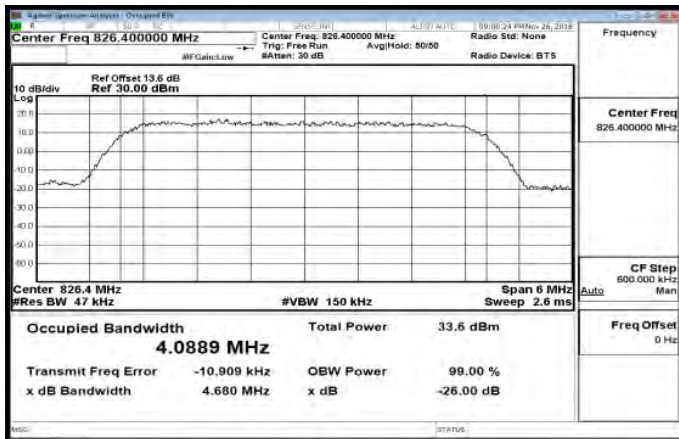
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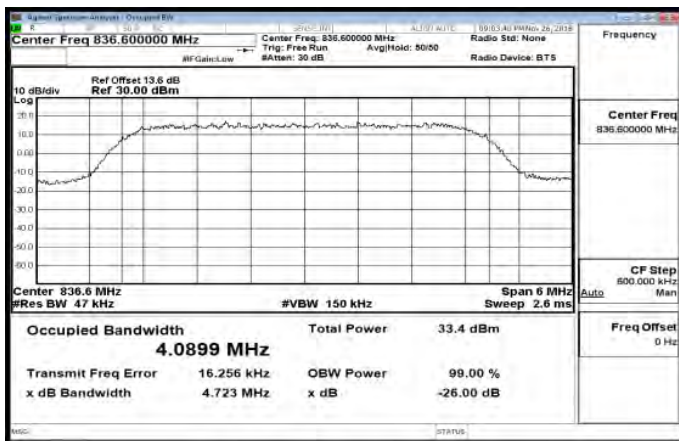
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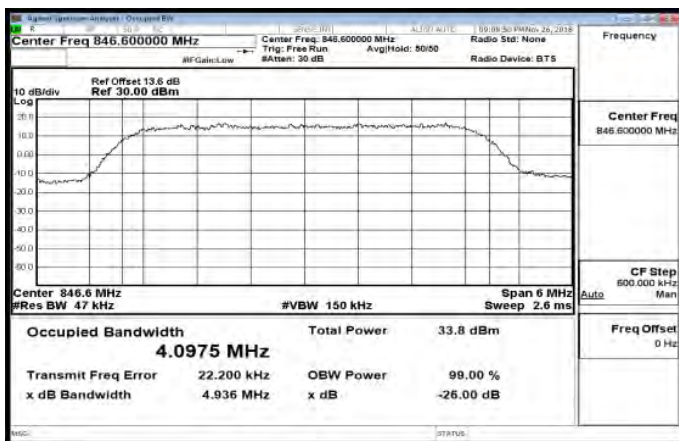
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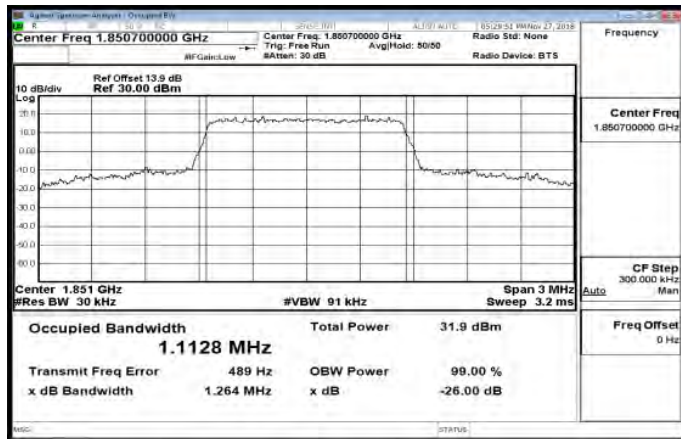
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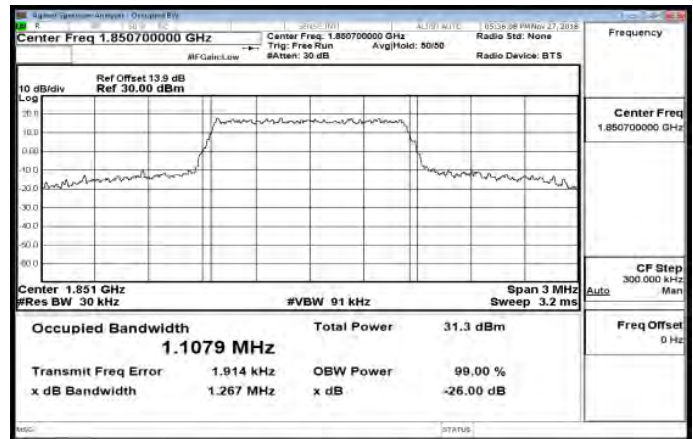
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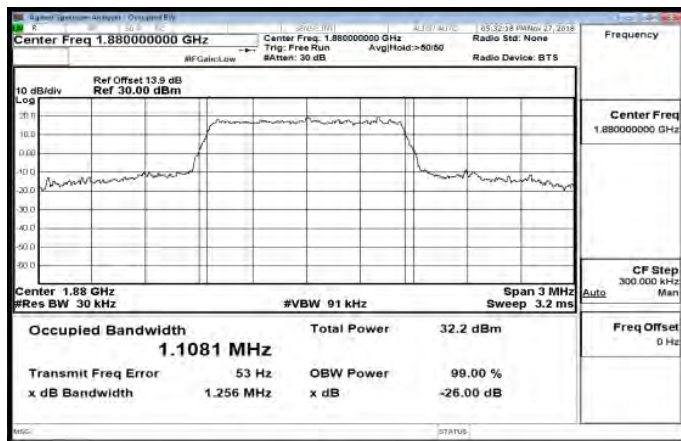
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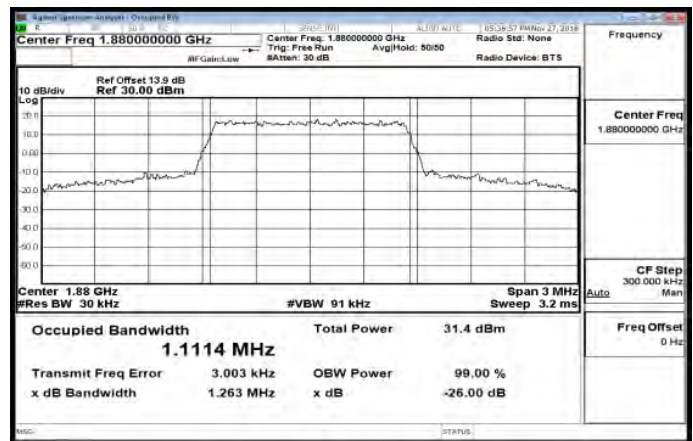
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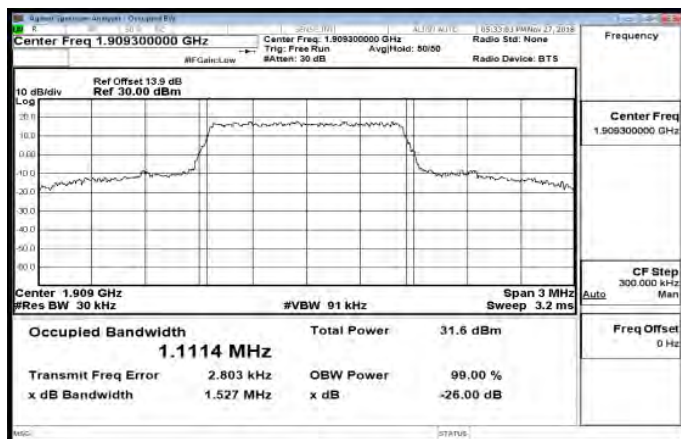
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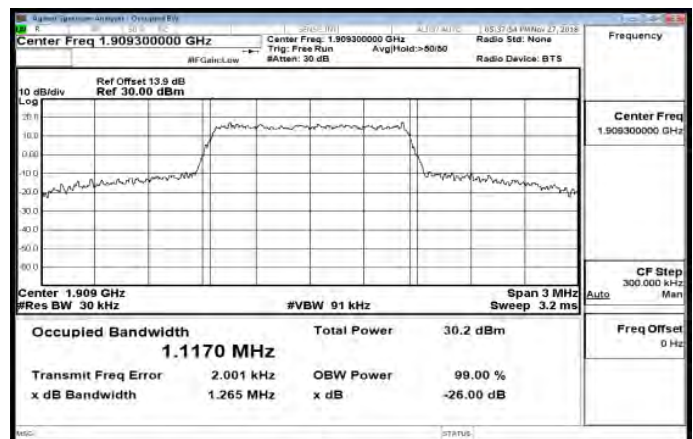
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Band2_1_4MHz_QPSK_6_0_HighCH19193-1909.3



Band2_1_4MHz_16QAM_6_0_HighCH19193-1909.3



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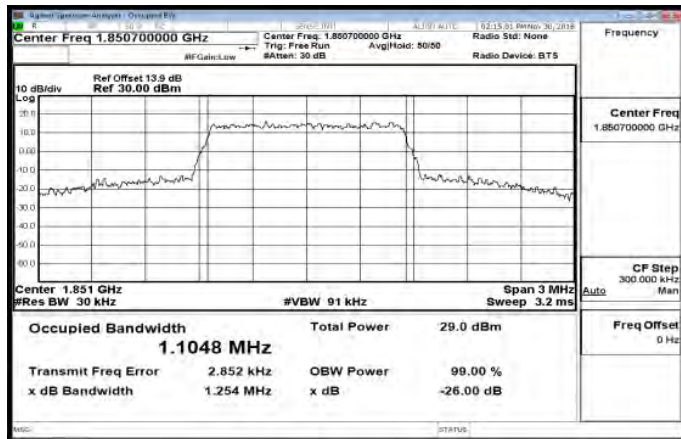
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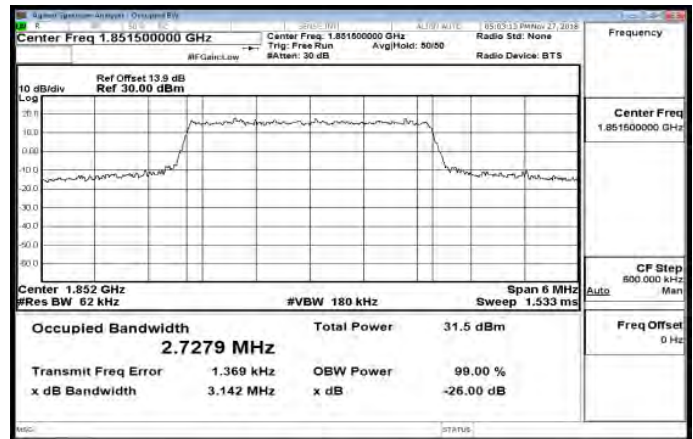
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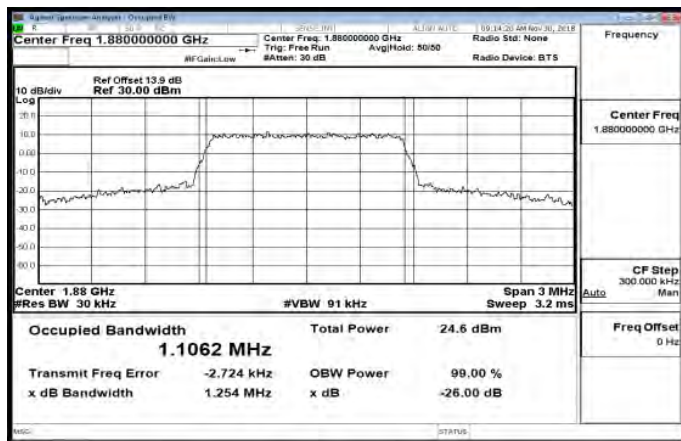
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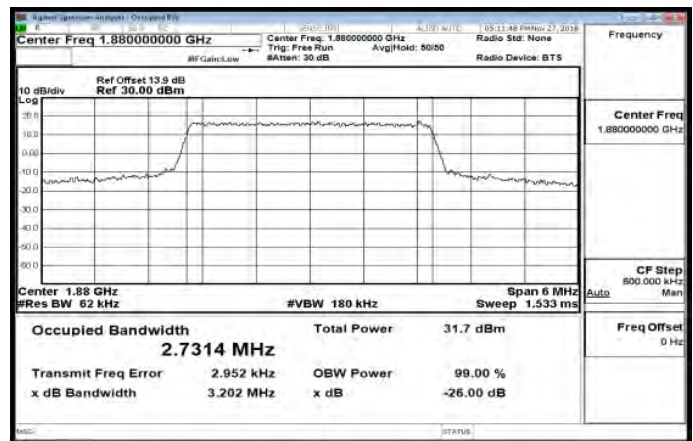
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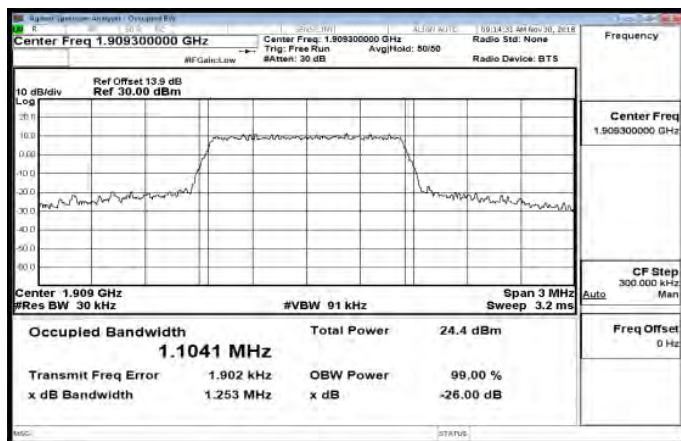
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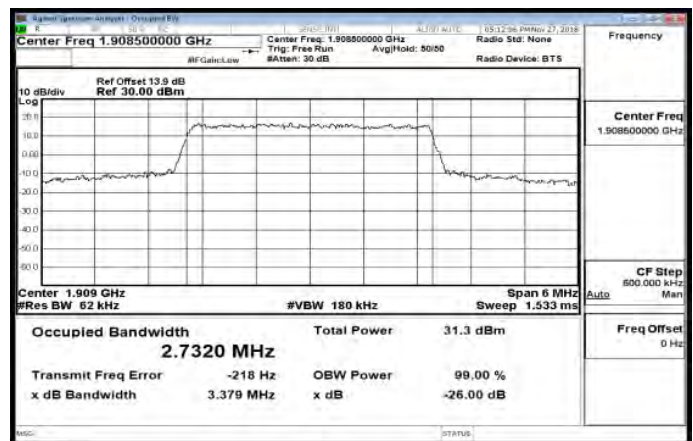
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Band2_1_4MHz_64QAM_6_0_HighCH19193-1909.3



Band2_3MHz_QPSK_15_0_HighCH19185-1908.5



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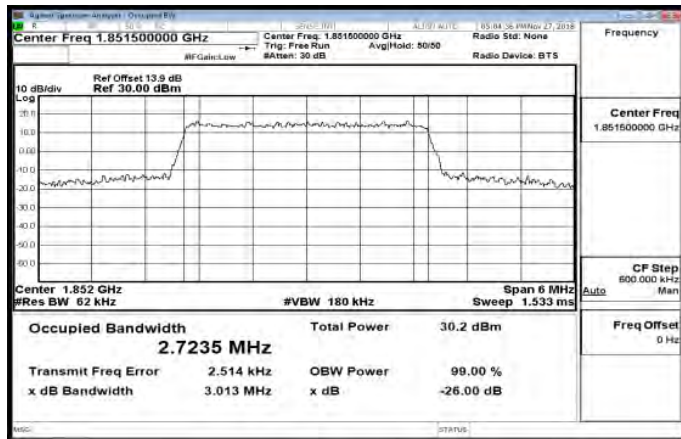
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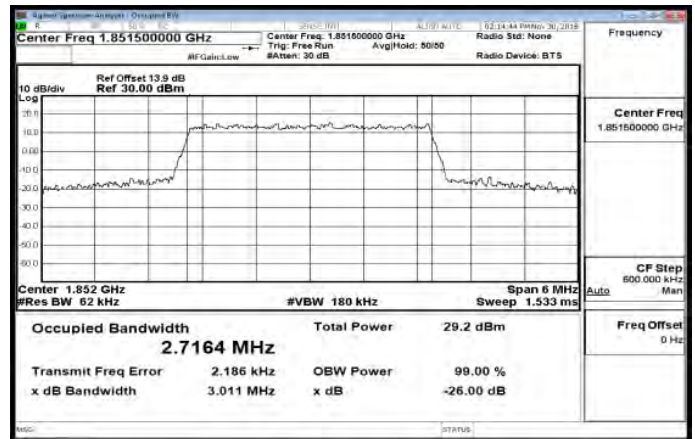
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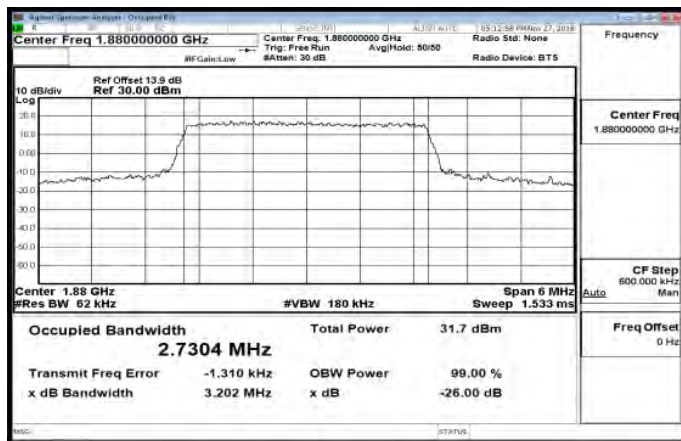
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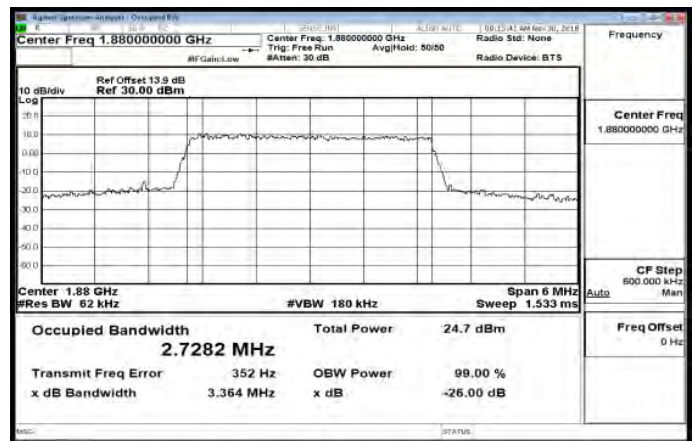
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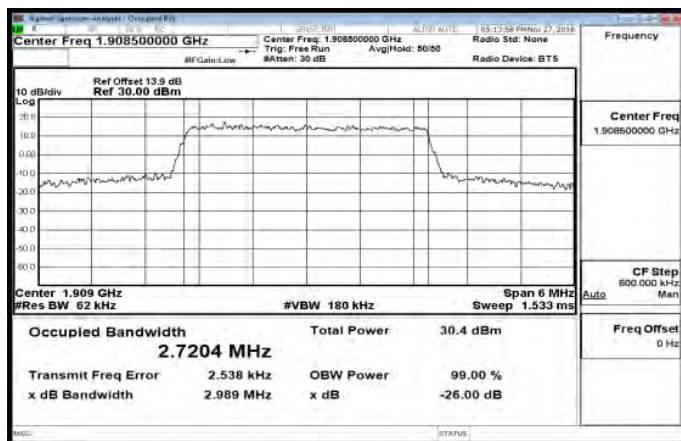
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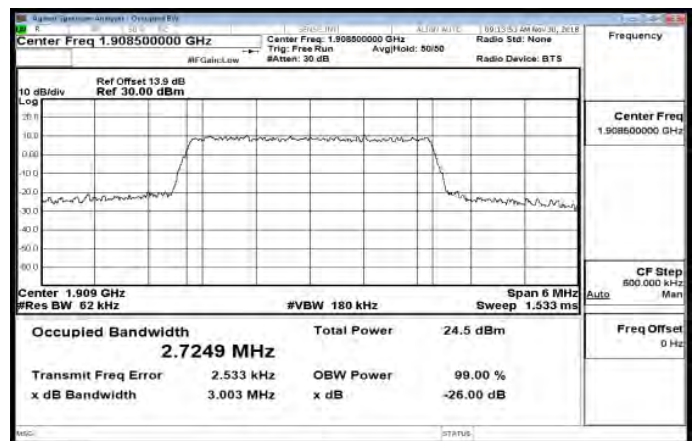
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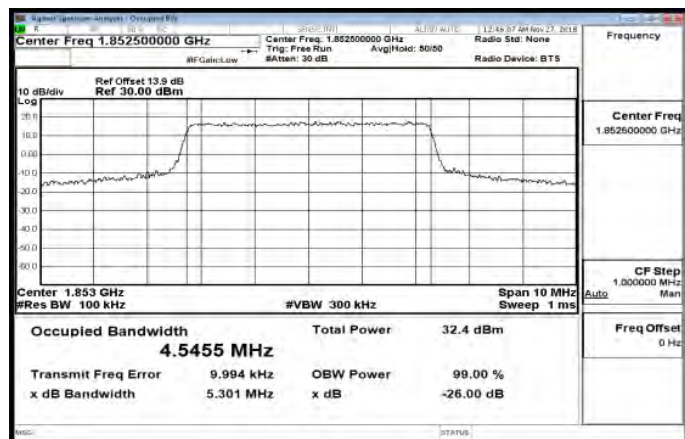
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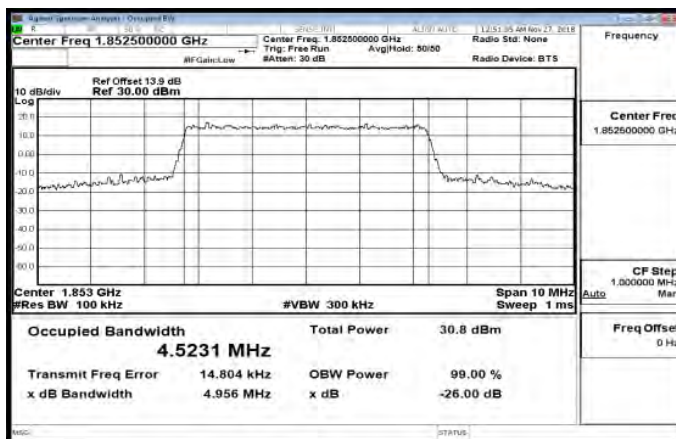
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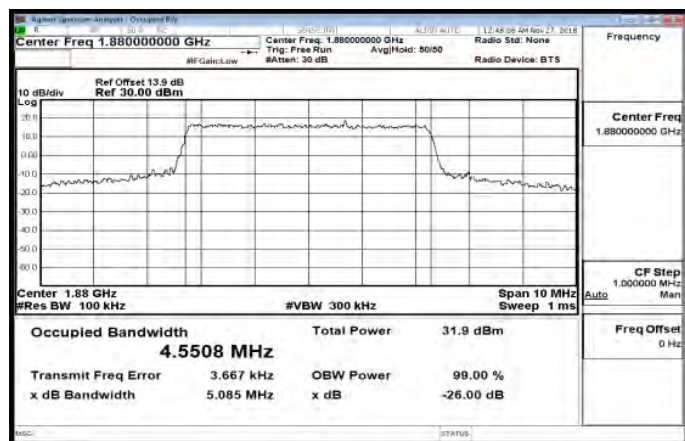
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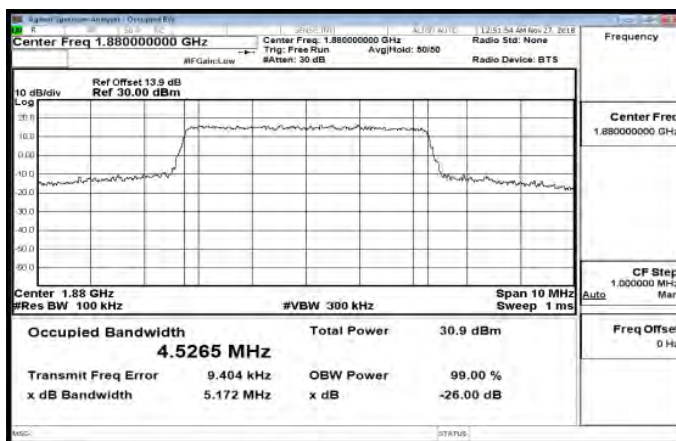
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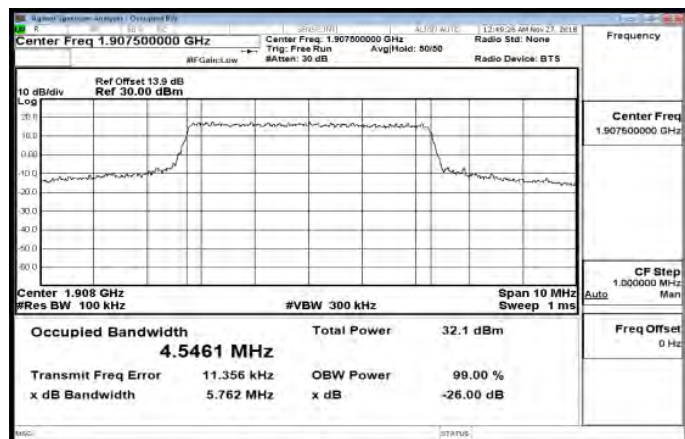
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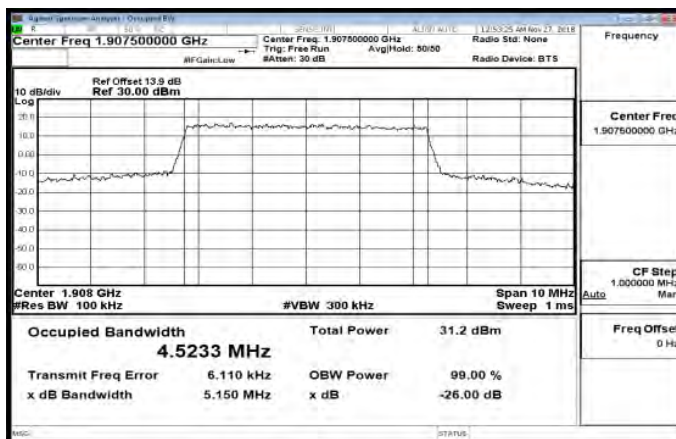
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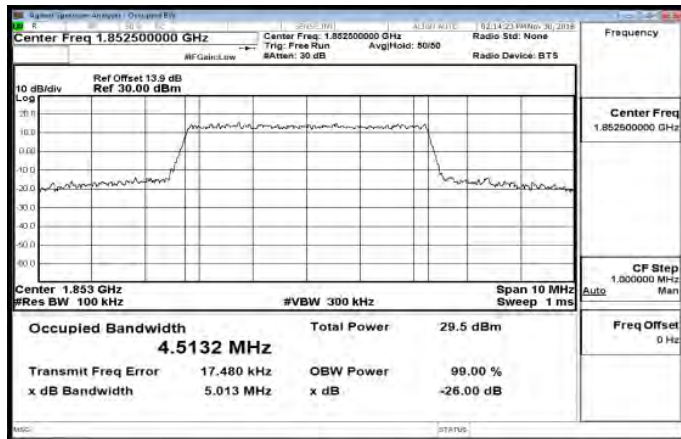
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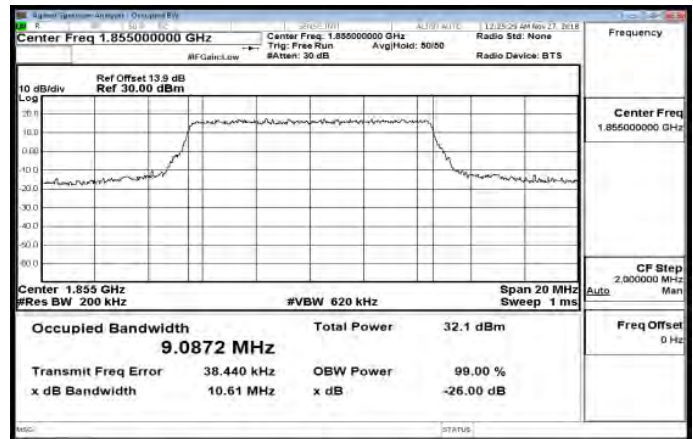
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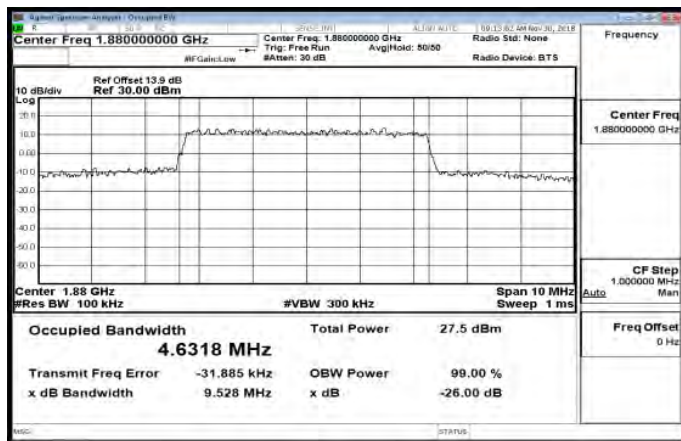
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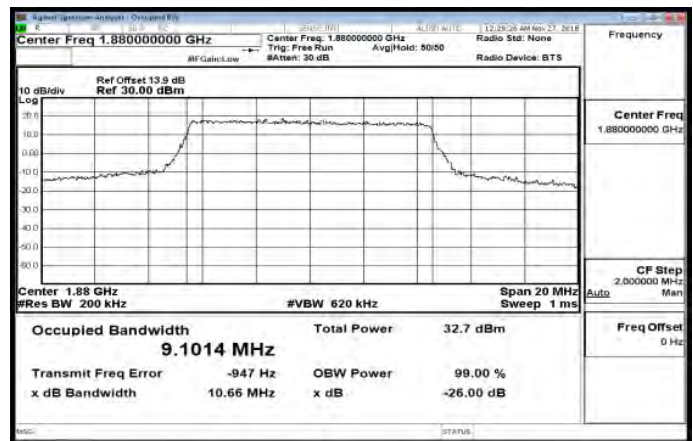
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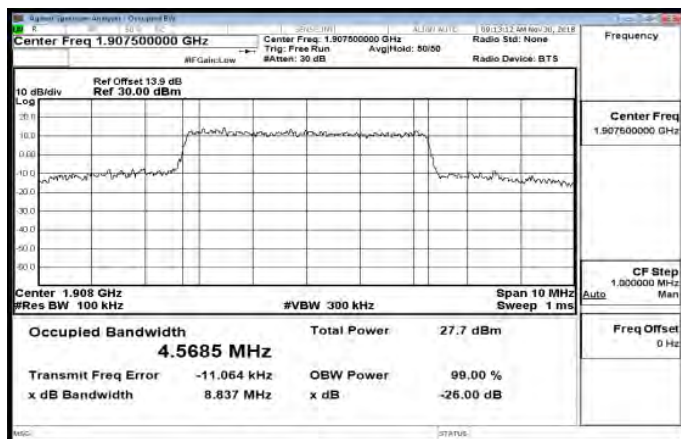
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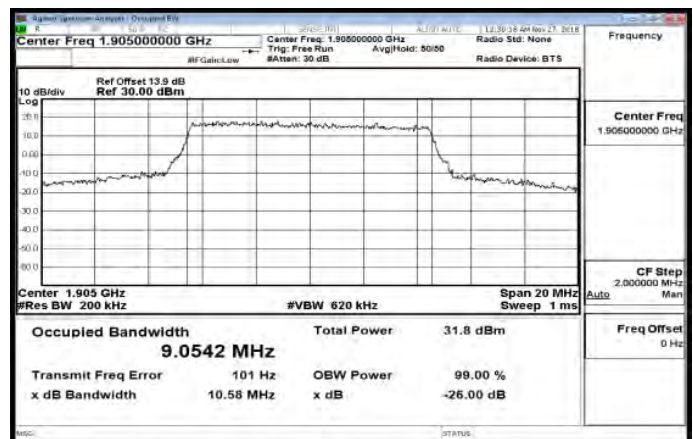
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Band2_10MHz_QPSK_50_0_HighCH19150-1905



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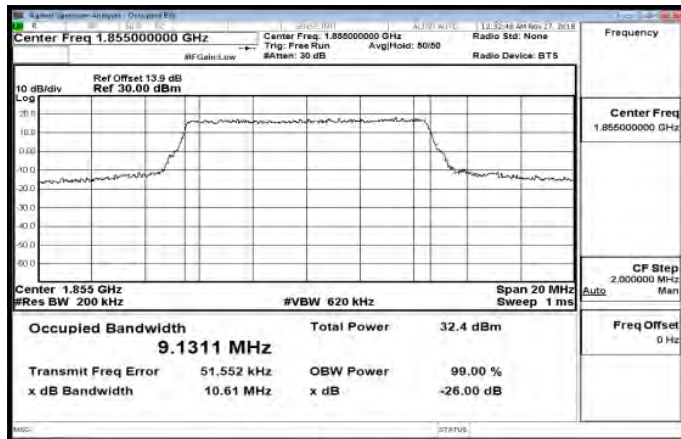
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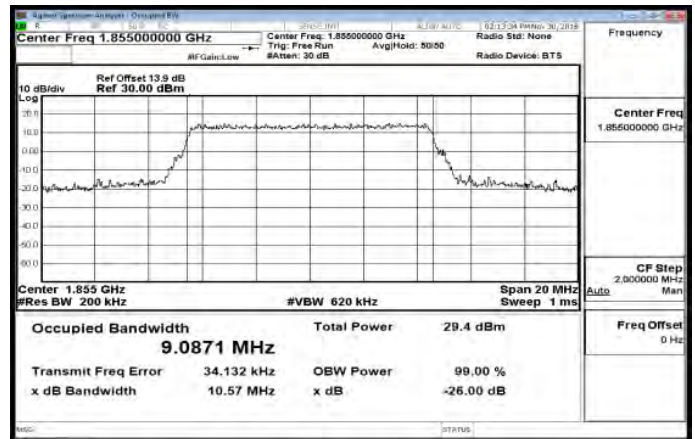
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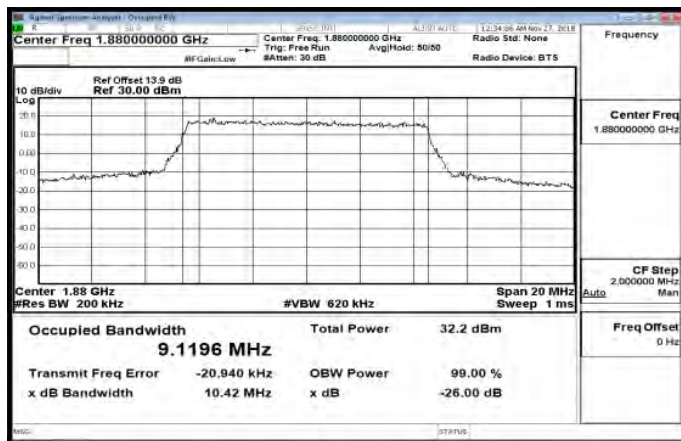
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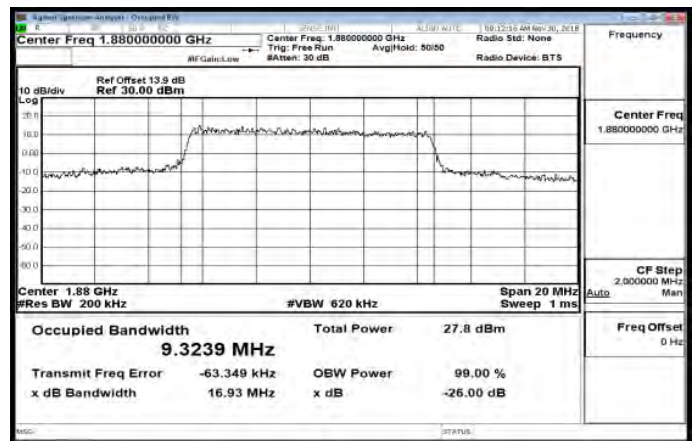
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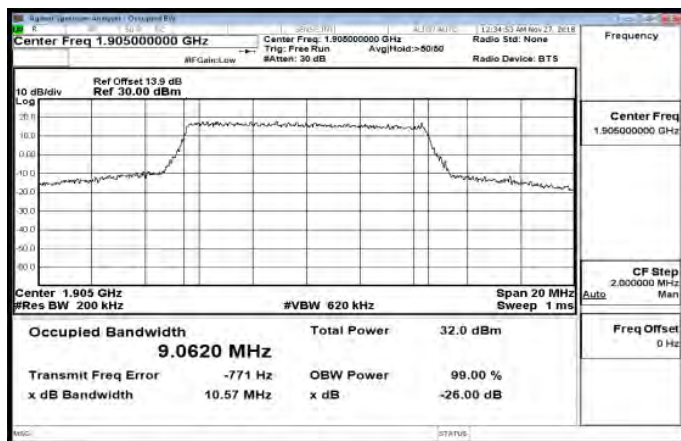
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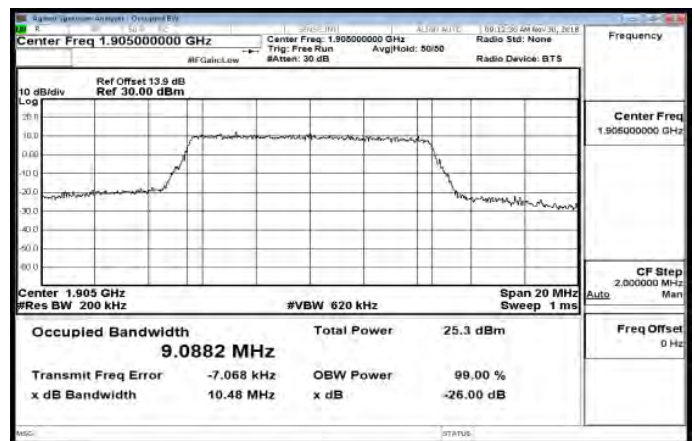
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Band2_10MHz_64QAM_50_0_HighCH19150-1905



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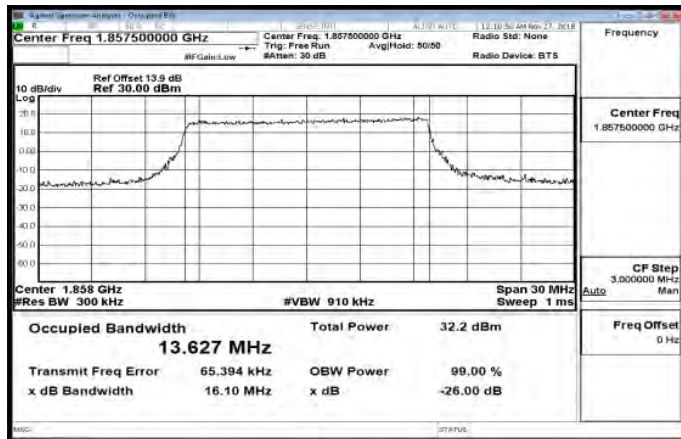
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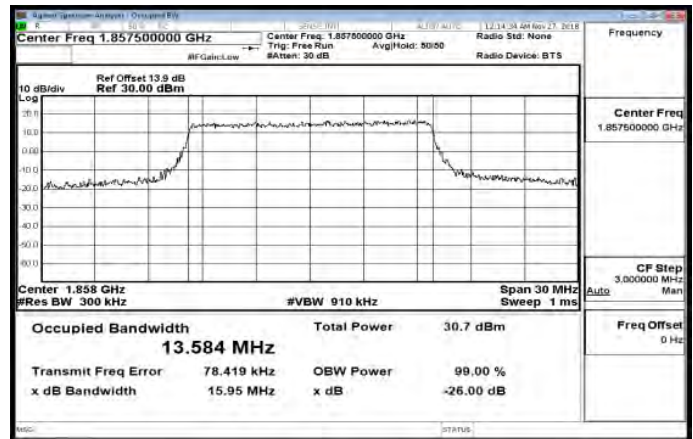
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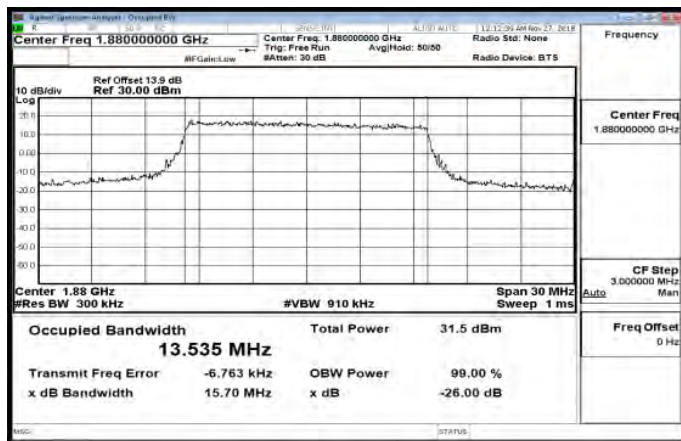
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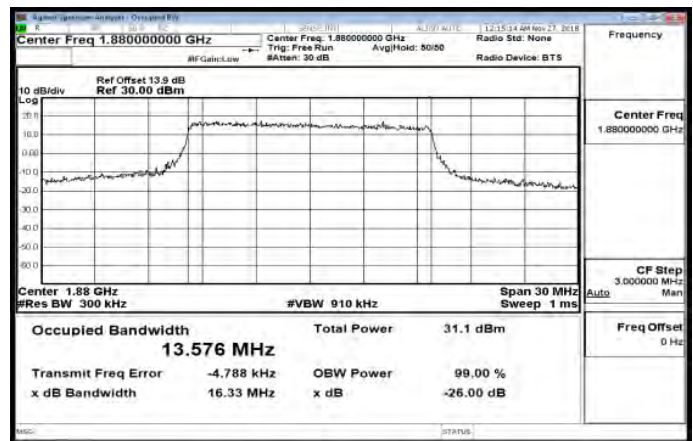
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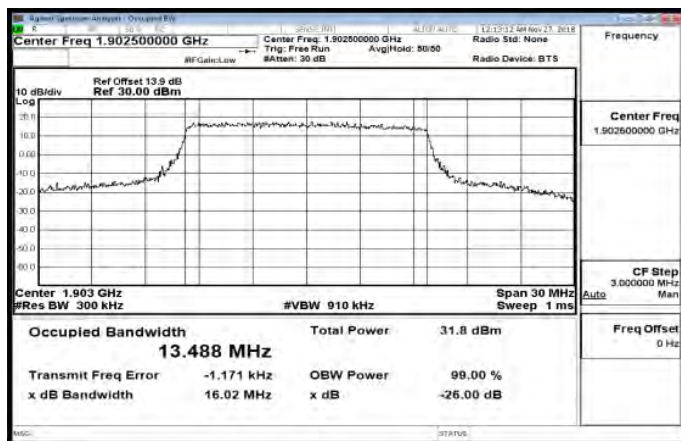
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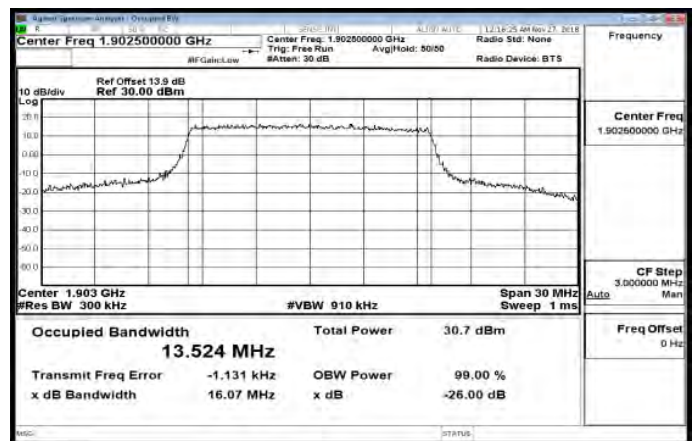
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Band2_15MHz_16QAM_75_0_HighCH19125-1902.5



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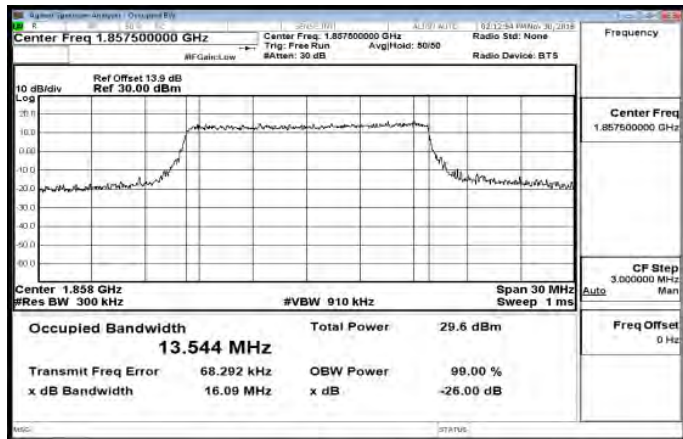
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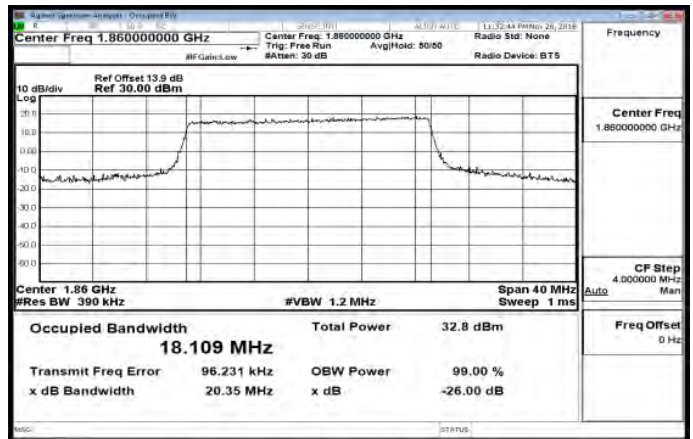
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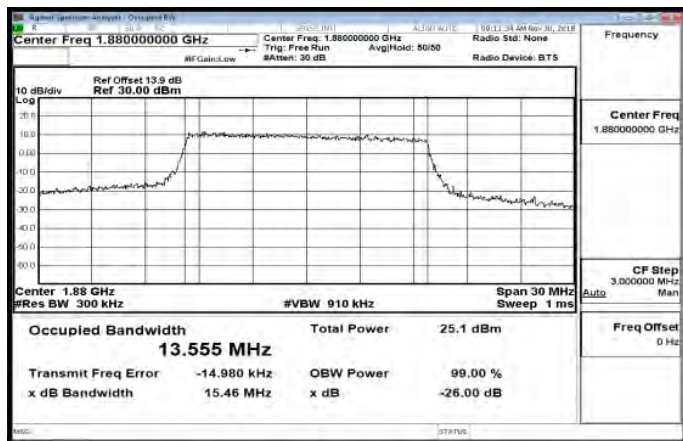
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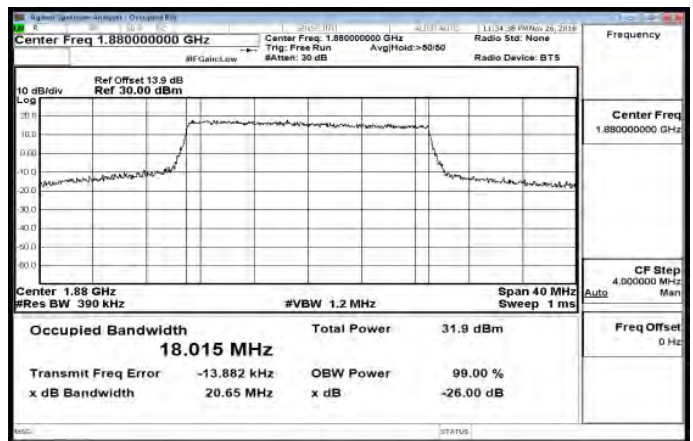
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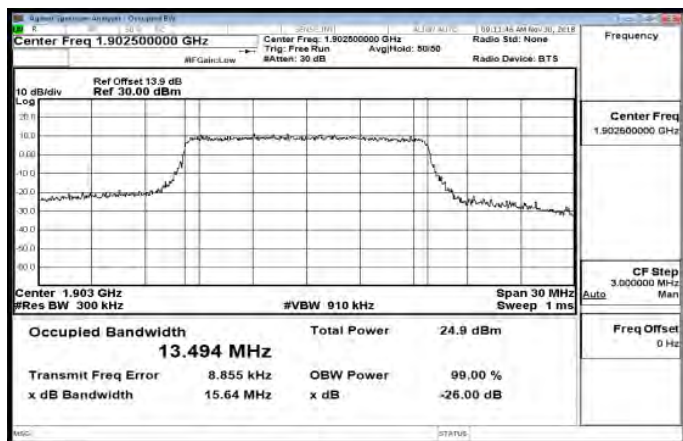
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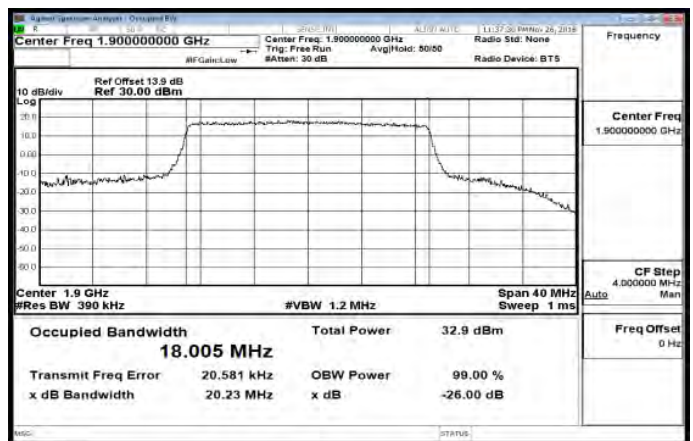
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Band2_15MHz_64QAM_75_0_HighCH19125-1902.5



Band2_20MHz_QPSK_100_0_HighCH19100-1900



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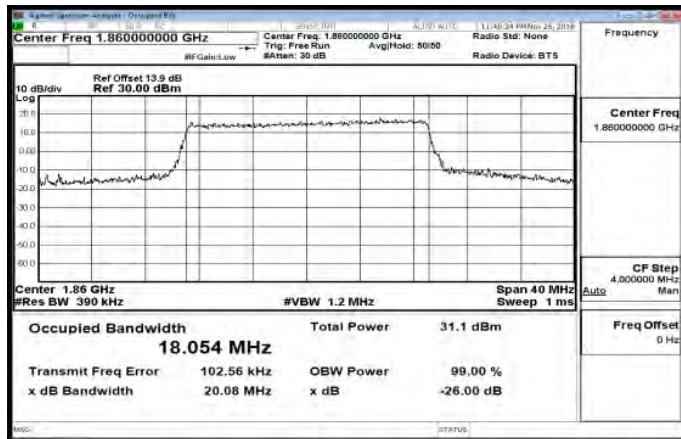
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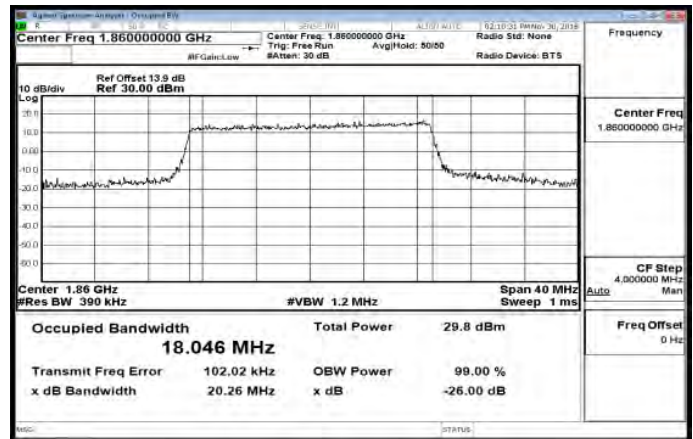
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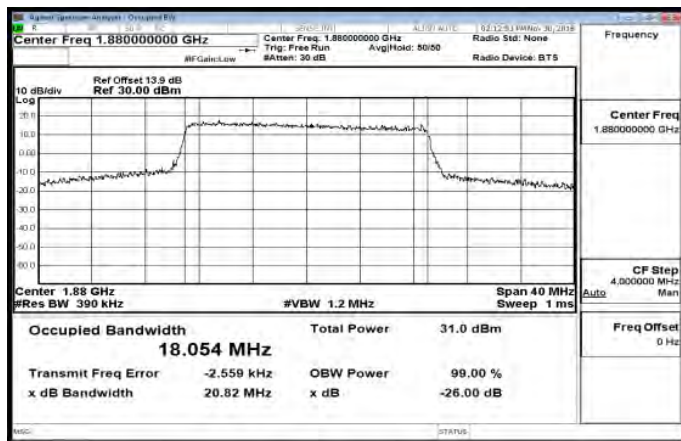
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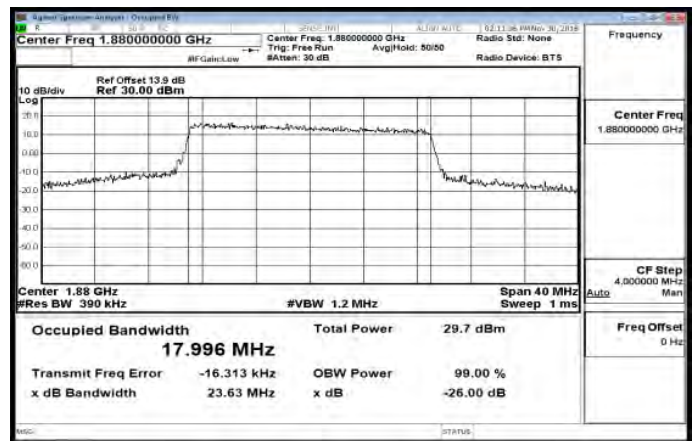
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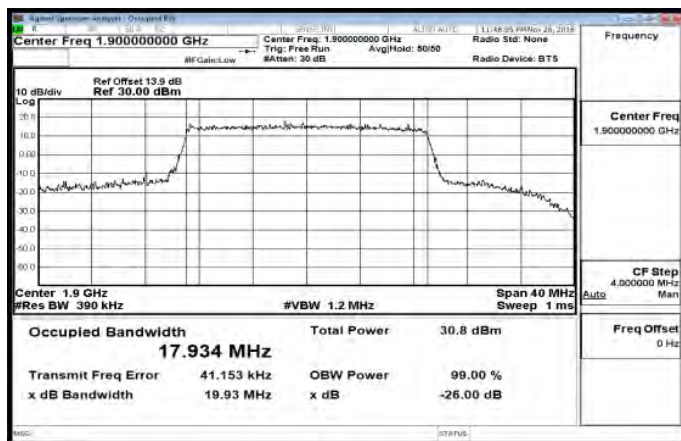
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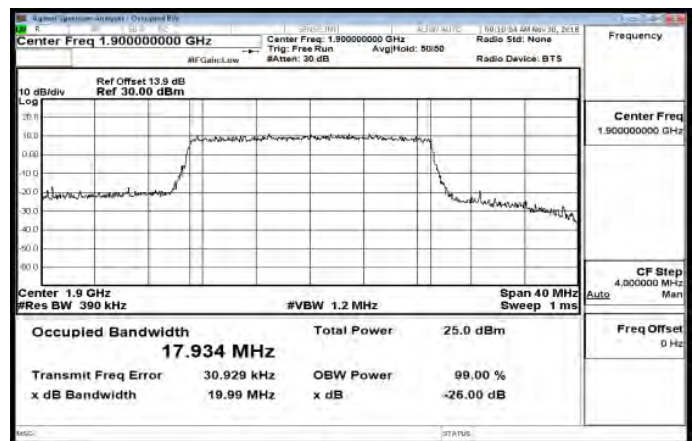
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Band2_20MHz_16QAM_100_0_HighCH19100-1900



Band2_20MHz_64QAM_100_0_HighCH19100-1900



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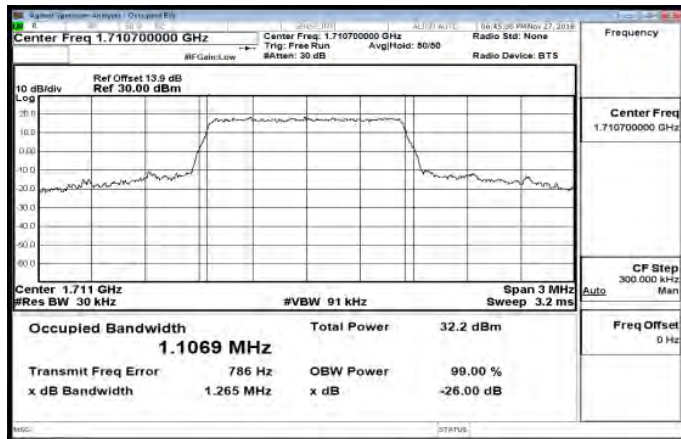
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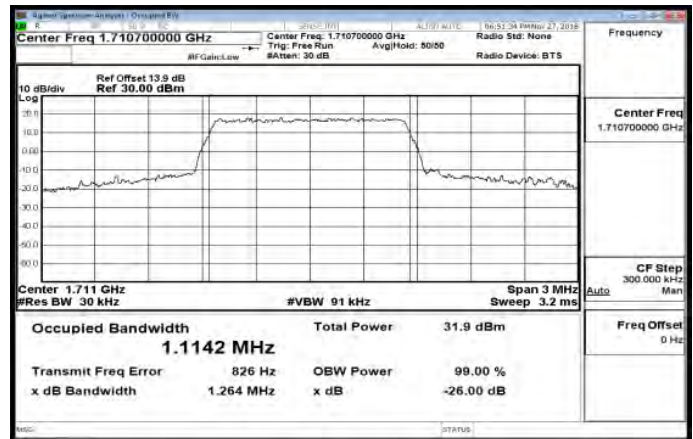
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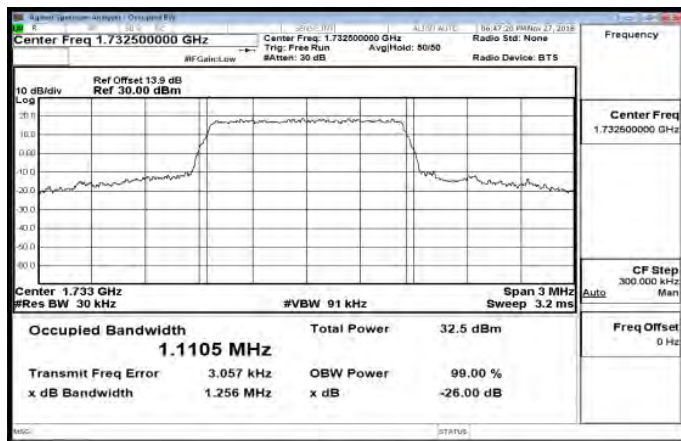
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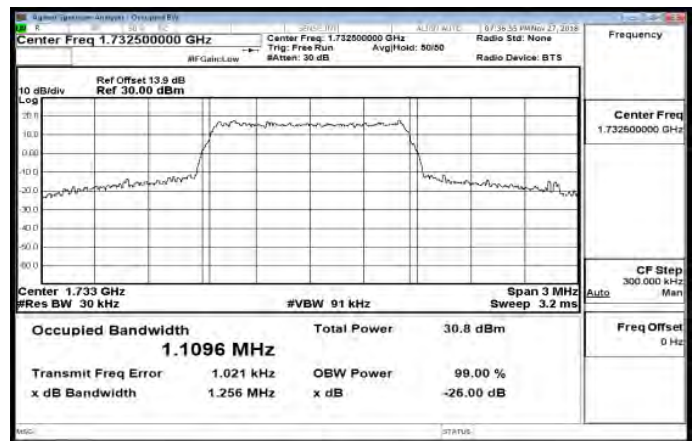
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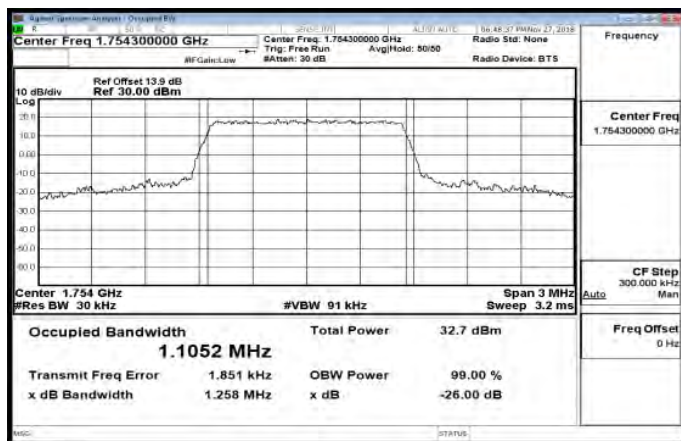
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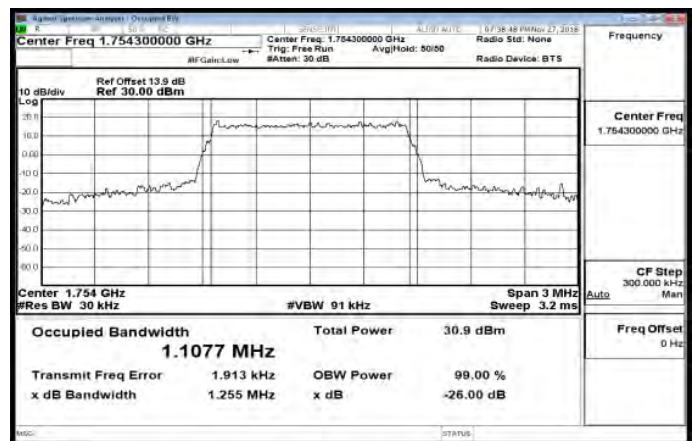
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Band4_1_4MHz_16QAM_6_0_HighCH20393-1754.3



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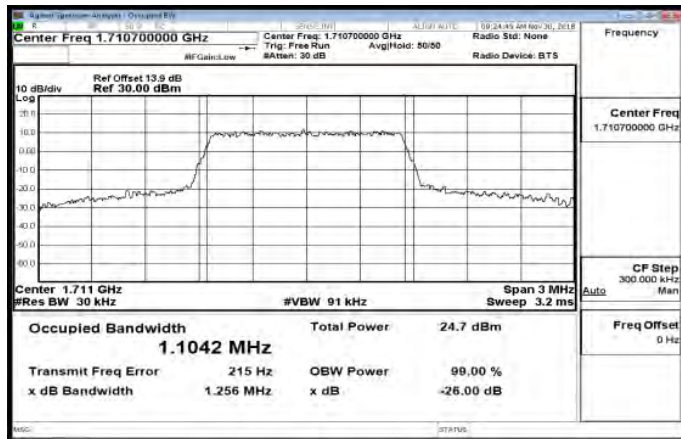
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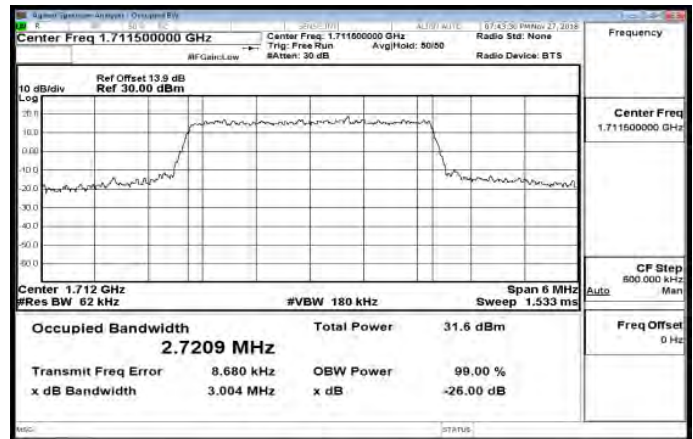
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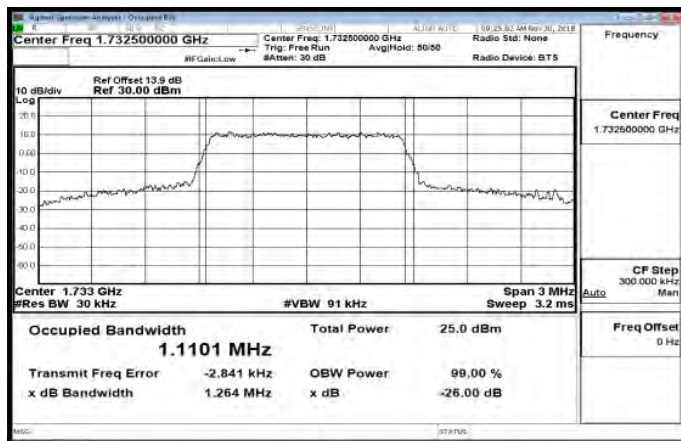
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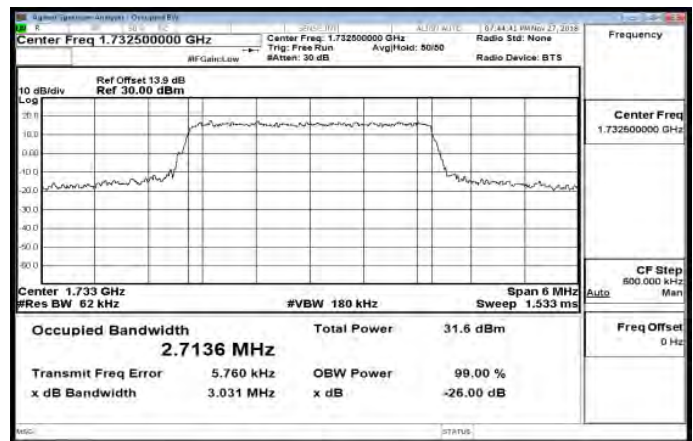
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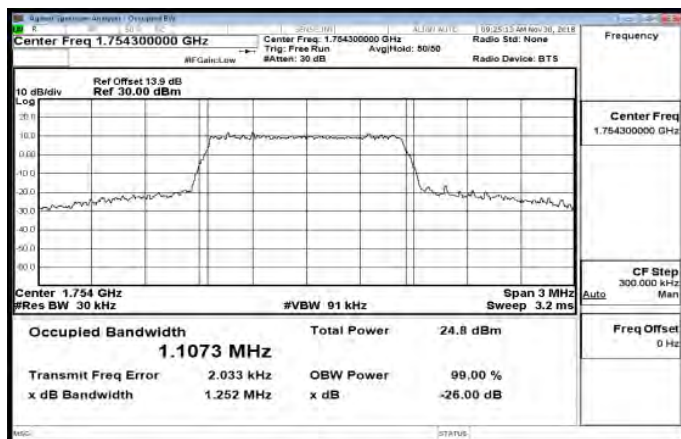
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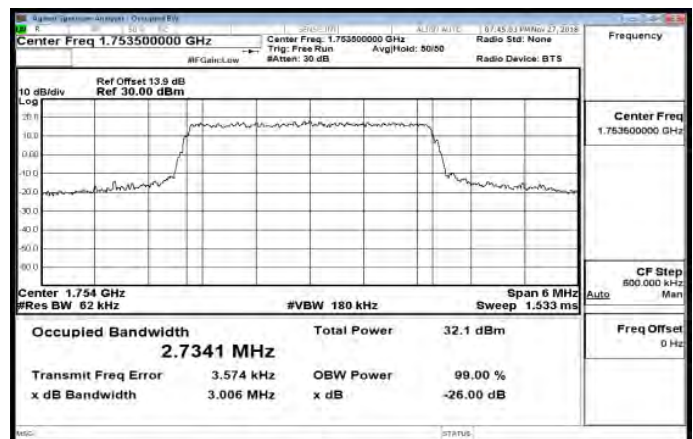
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Band4_1_4MHz_64QAM_6_0_HighCH20393-1754.3



Band4_3MHz_QPSK_15_0_HighCH20385-1753.5



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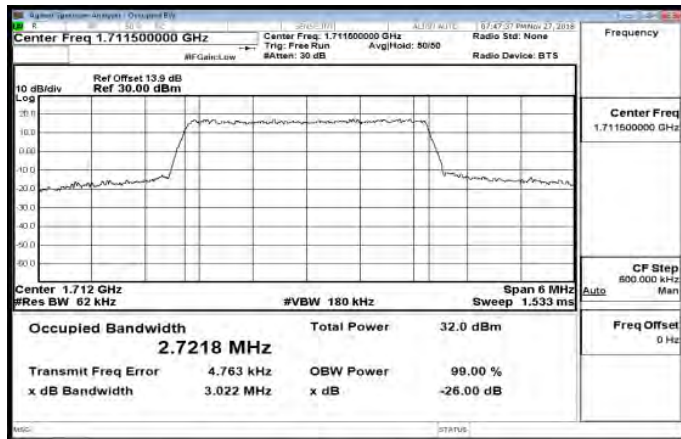
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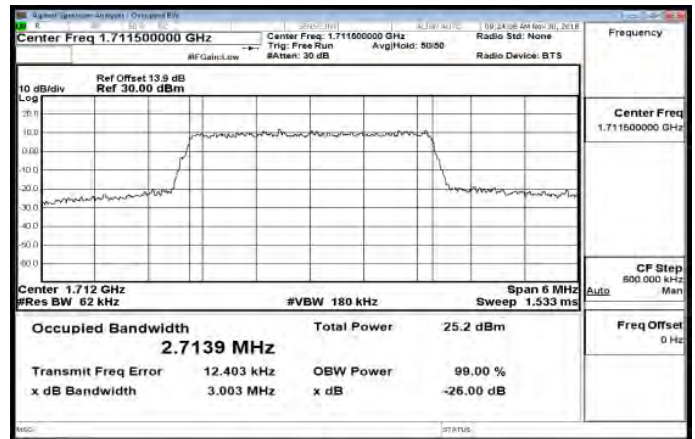
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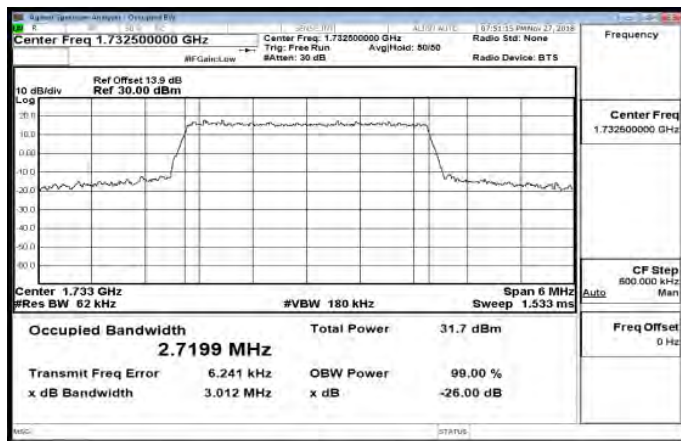
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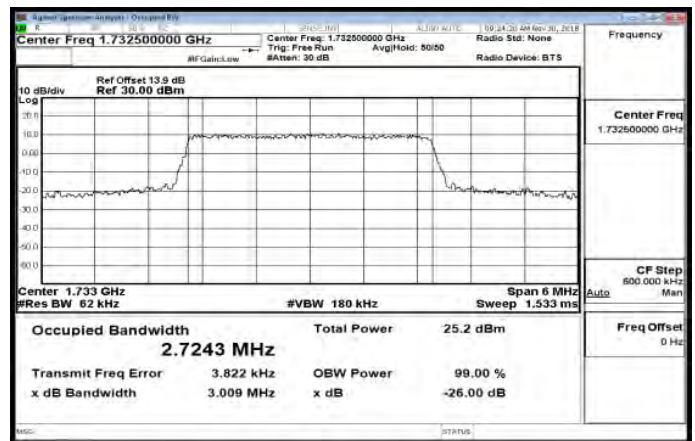
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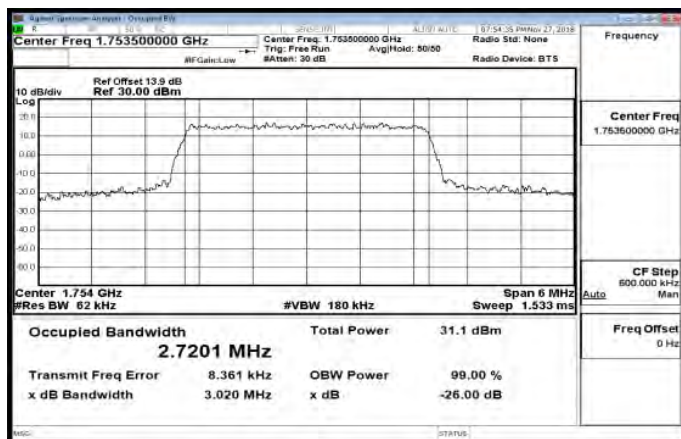
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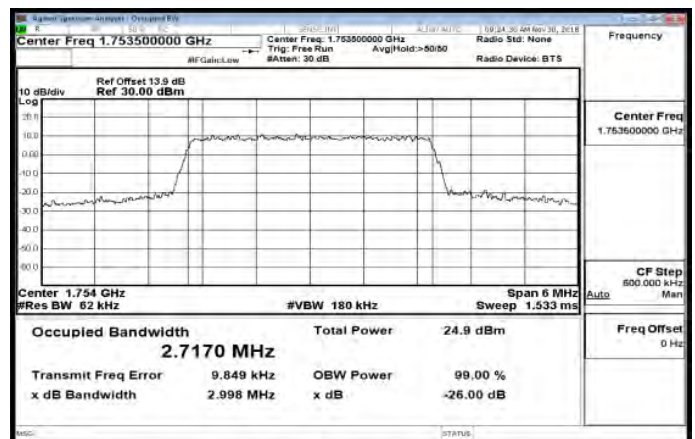
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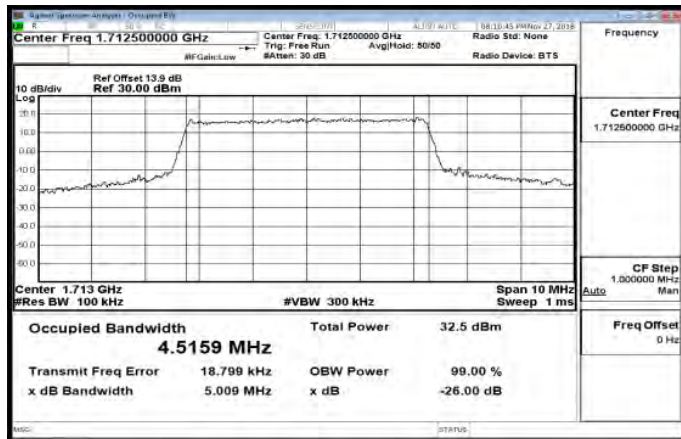
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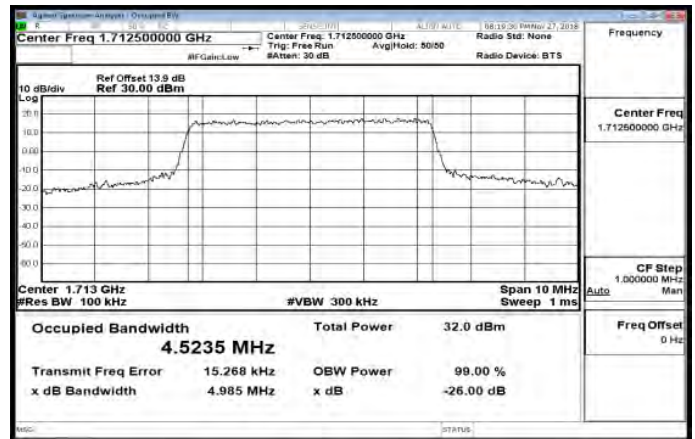
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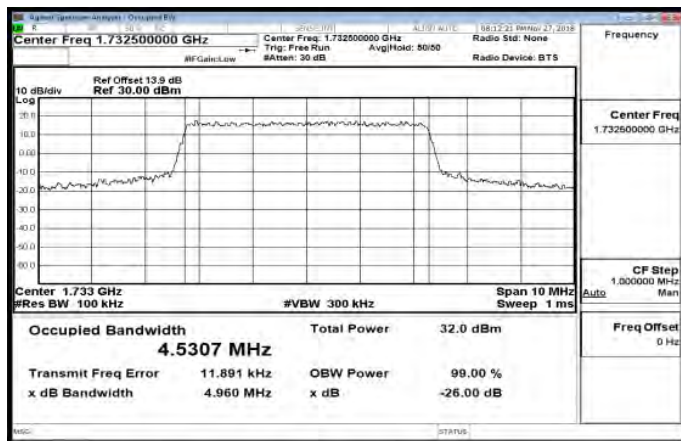
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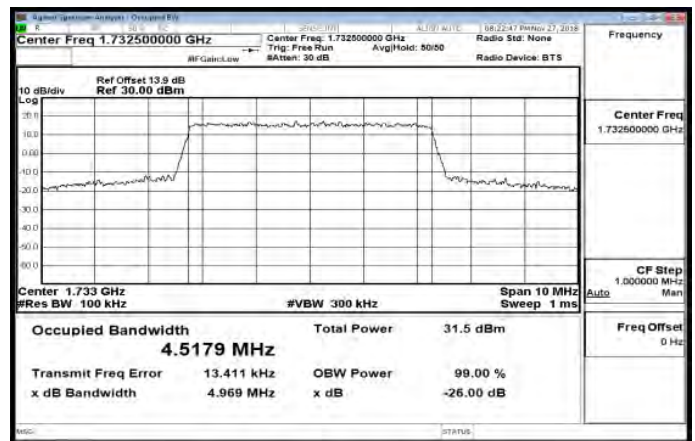
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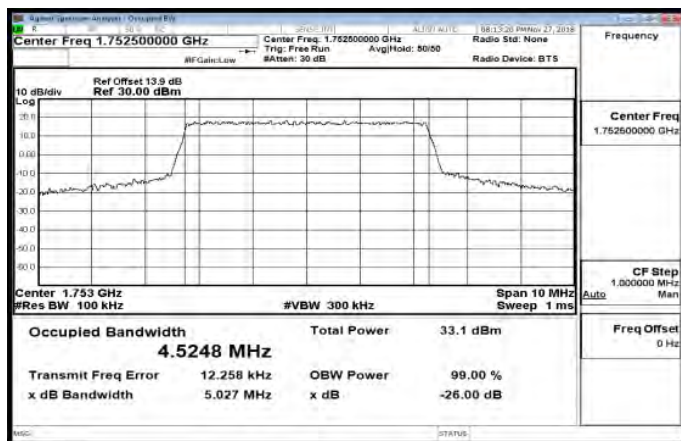
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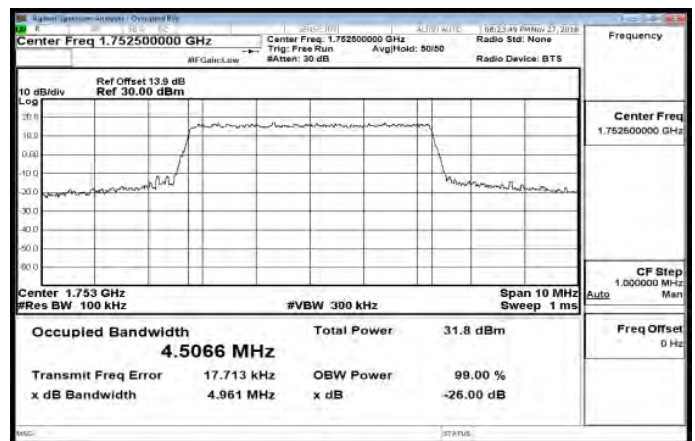
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Band4_5MHz_QPSK_25_0_HighCH20375-1752.5



Band4_5MHz_16QAM_25_0_HighCH20375-1752.5



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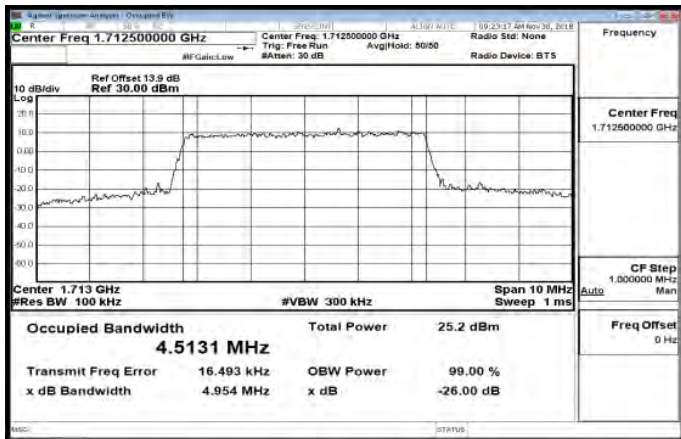
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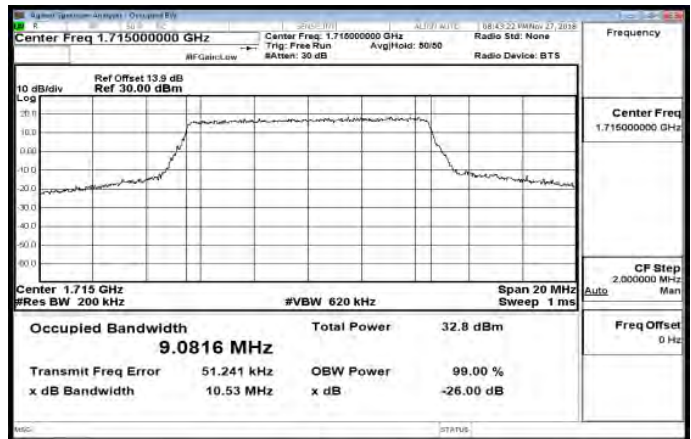
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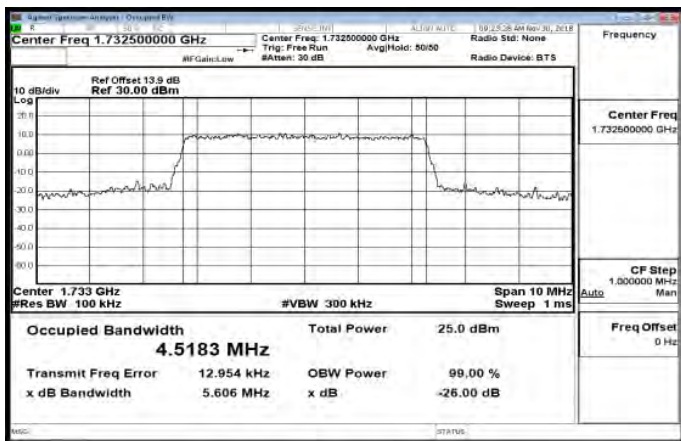
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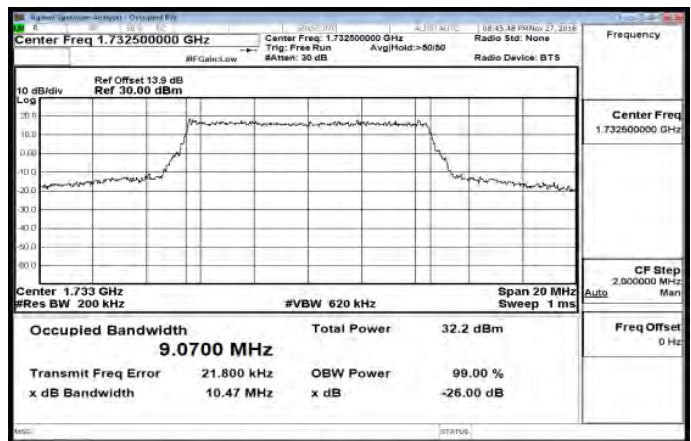
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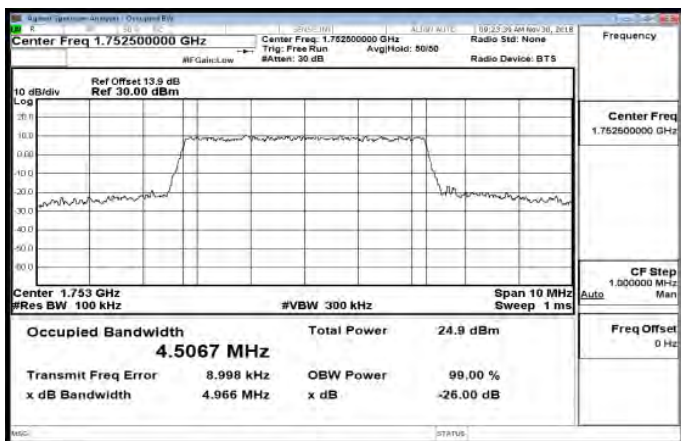
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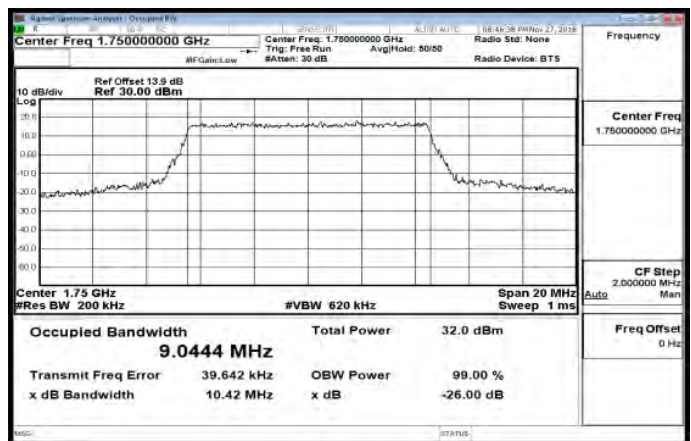
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Band4_5MHz_64QAM_25_0_HighCH20375-1752.5



Band4_10MHz_QPSK_50_0_HighCH20350-1750



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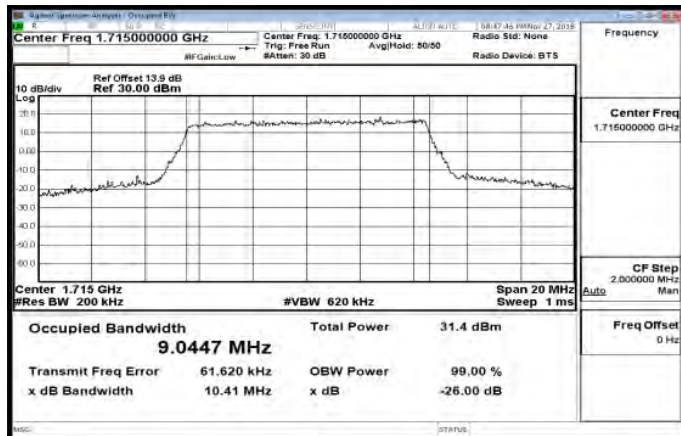
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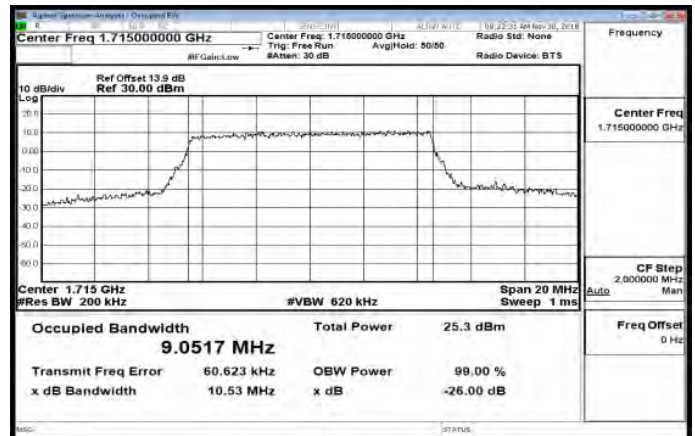
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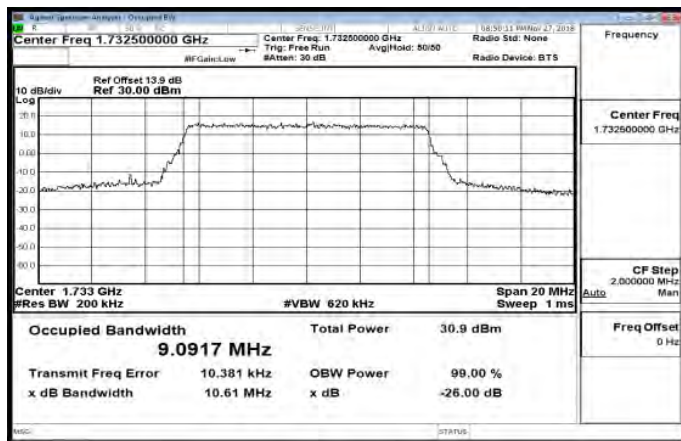
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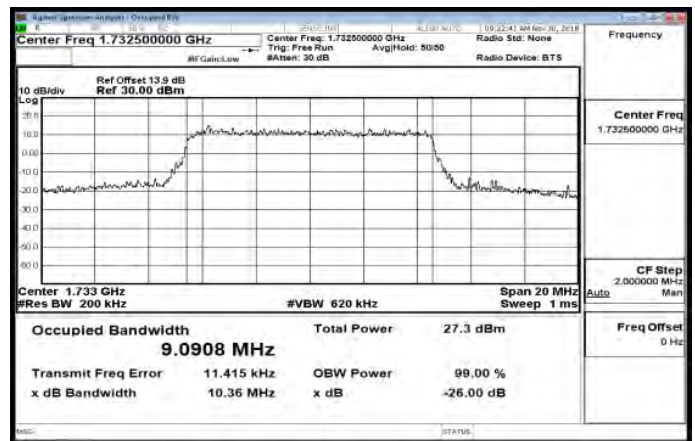
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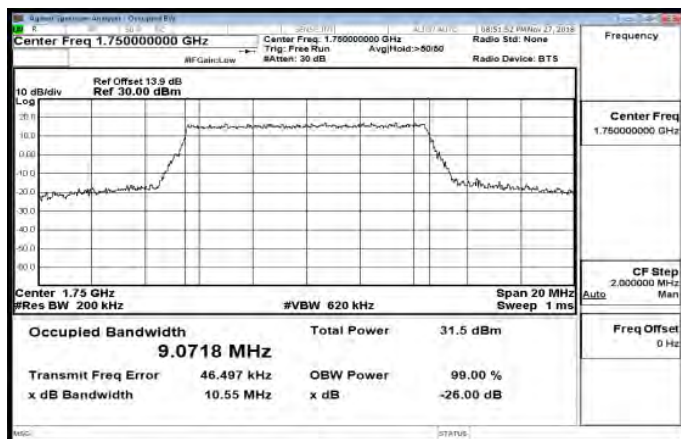
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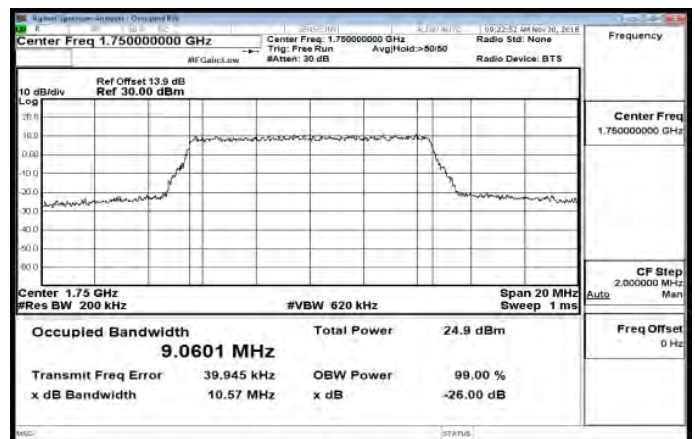
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Band4_10MHz_64QAM_50_0_HighCH20350-1750



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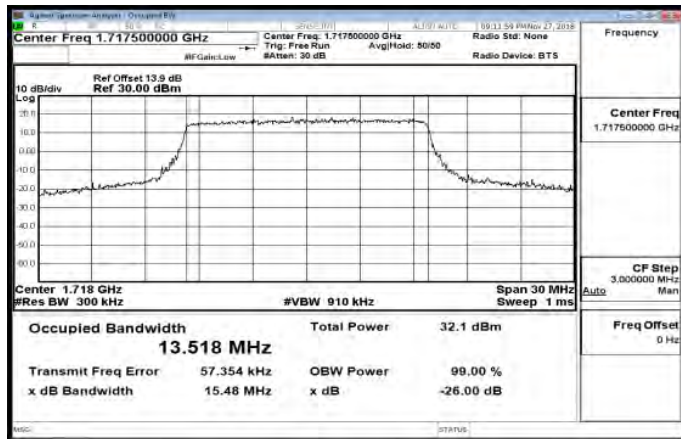
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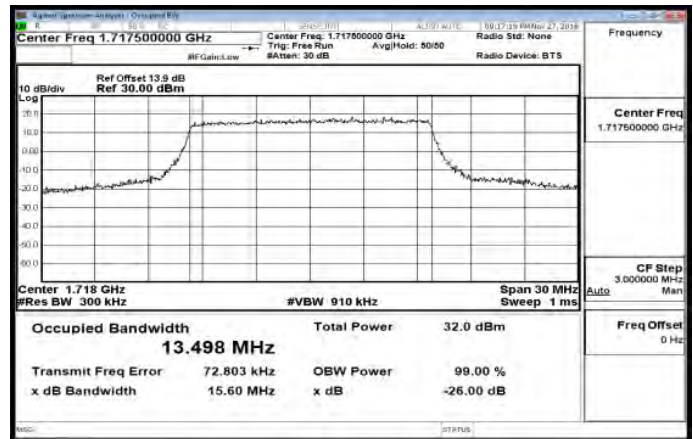
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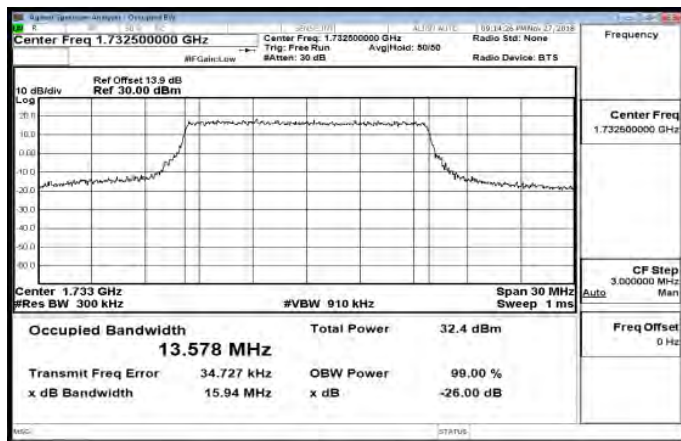
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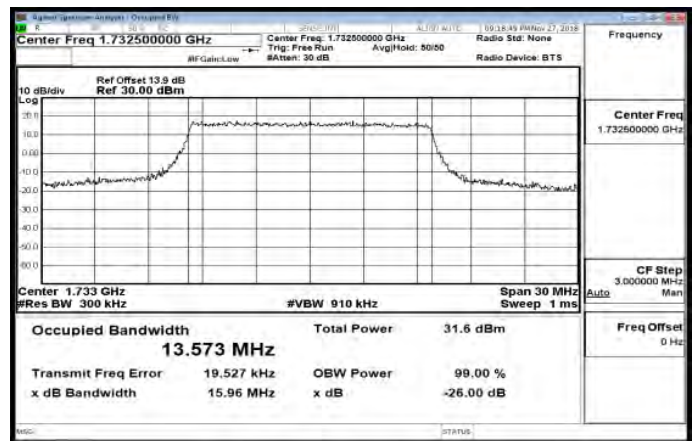
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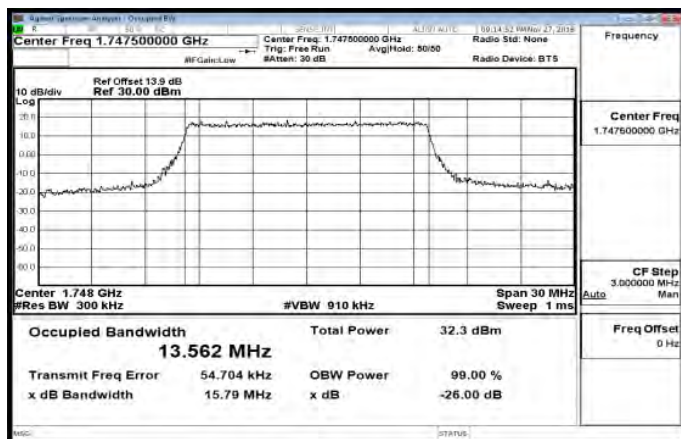
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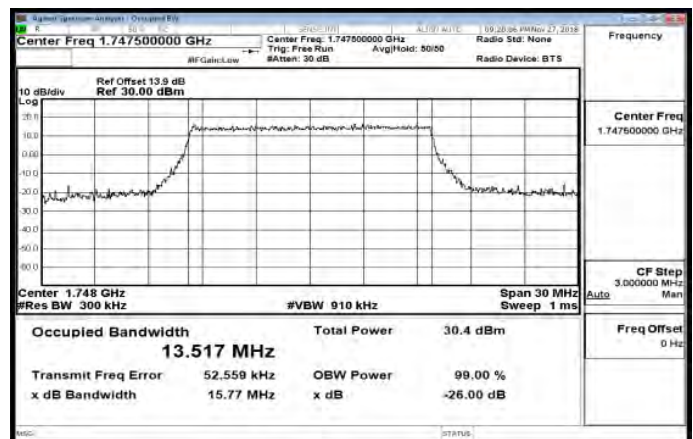
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Band4_15MHz_16QAM_75_0_HighCH20325-1747.5



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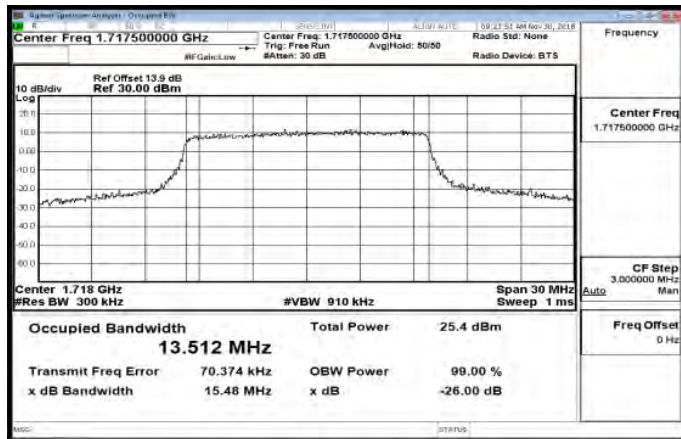
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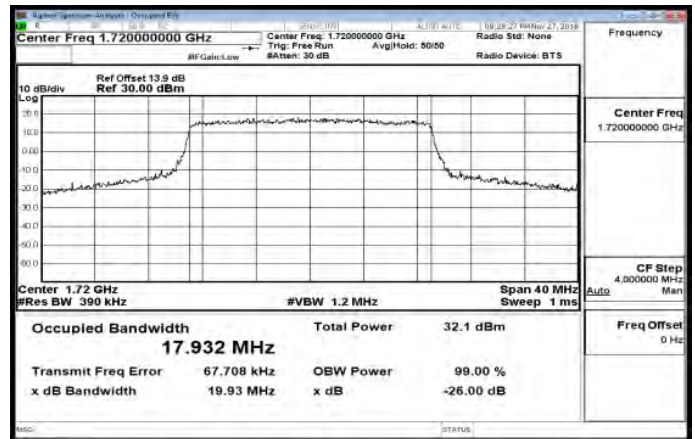
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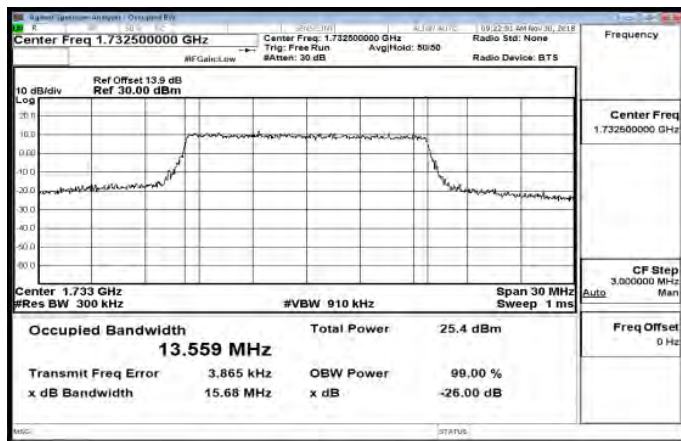
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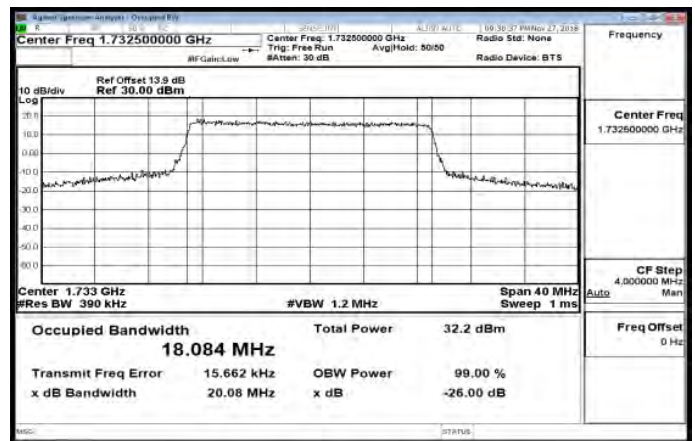
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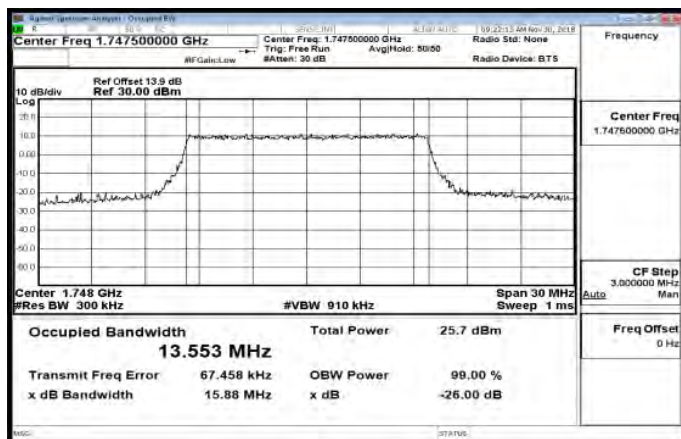
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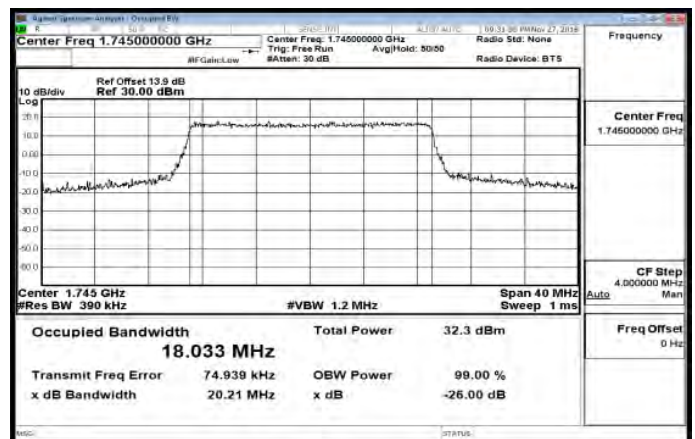
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Band4_15MHz_64QAM_75_0_HighCH20325-1747.5



Band4_20MHz_QPSK_100_0_HighCH20300-1745



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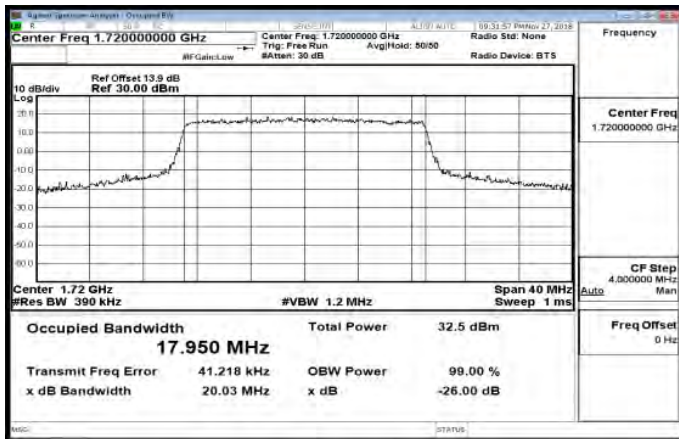
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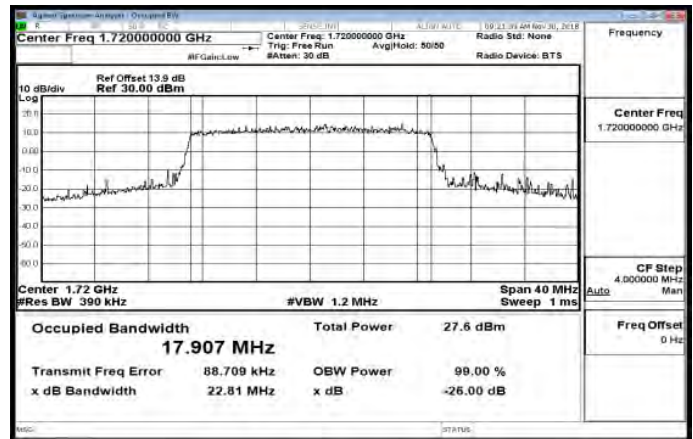
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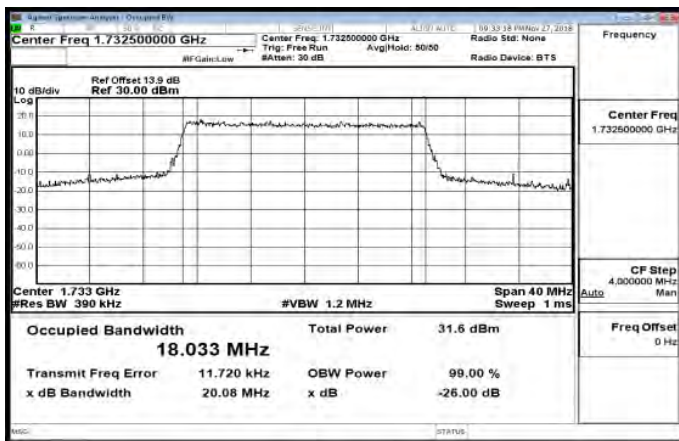
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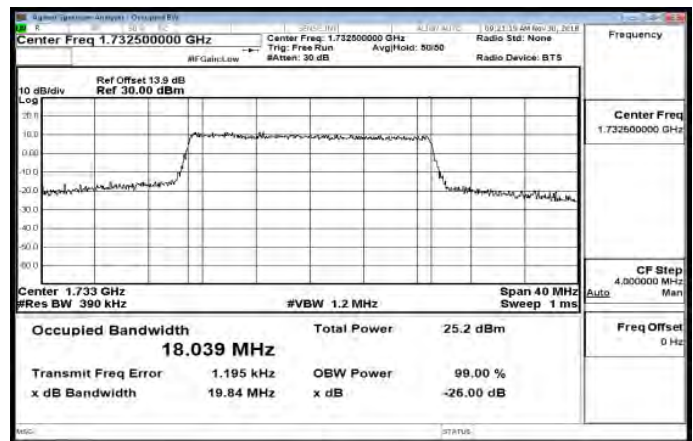
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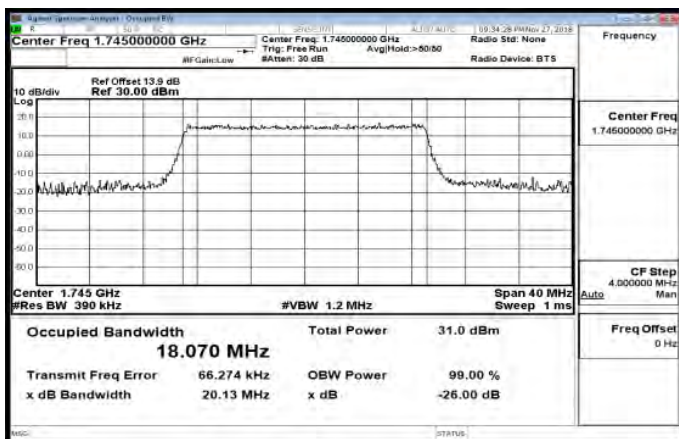
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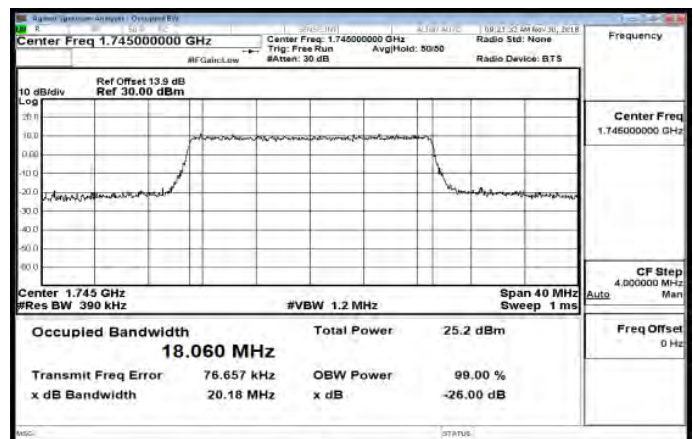
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Band4_20MHz_16QAM_100_0_HighCH20300-1745



Band4_20MHz_64QAM_100_0_HighCH20300-1745



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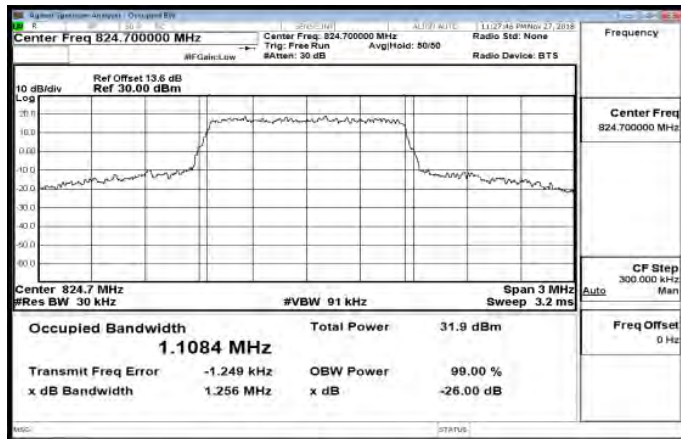
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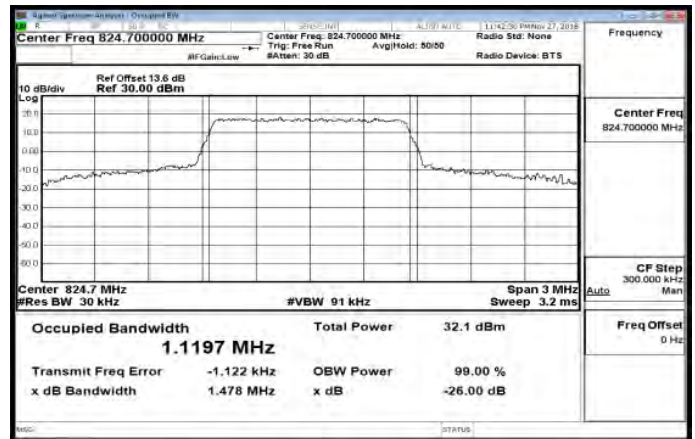
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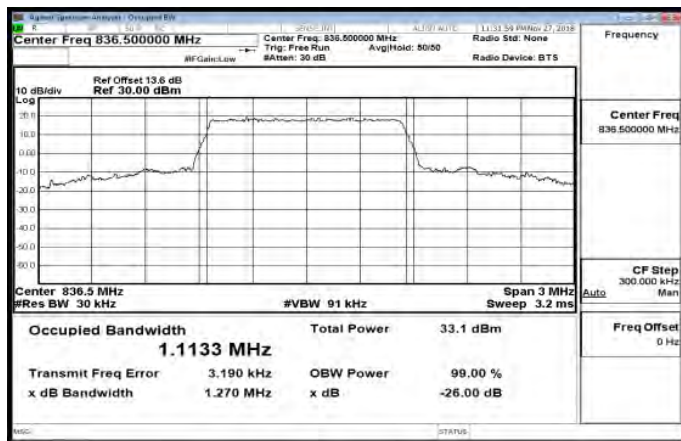
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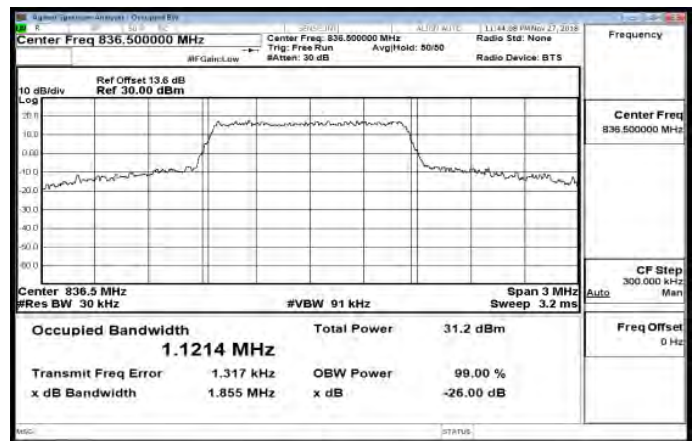
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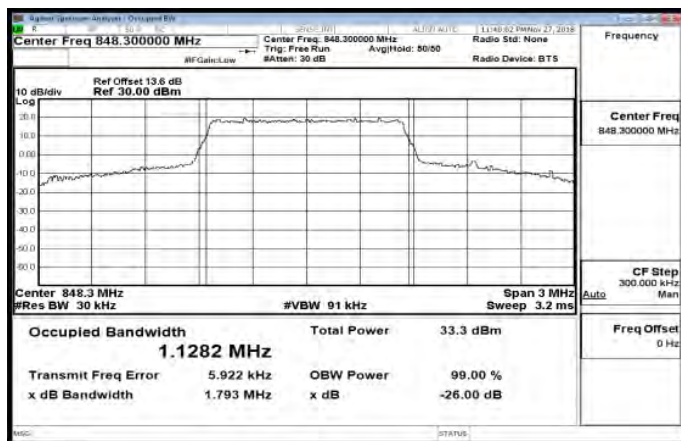
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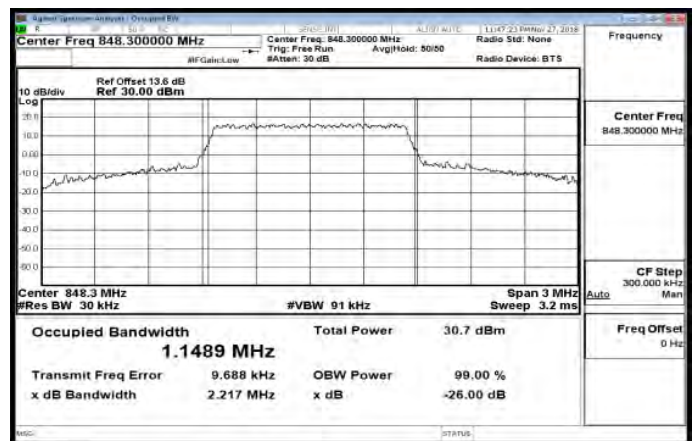
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Band5_1_4MHz_16QAM_6_0_HighCH20643-848.3



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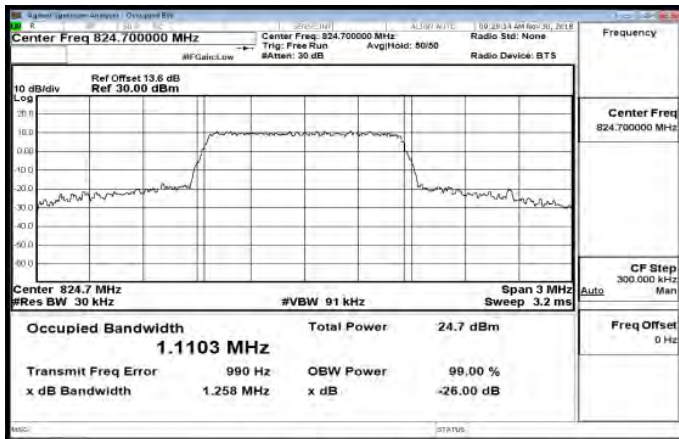
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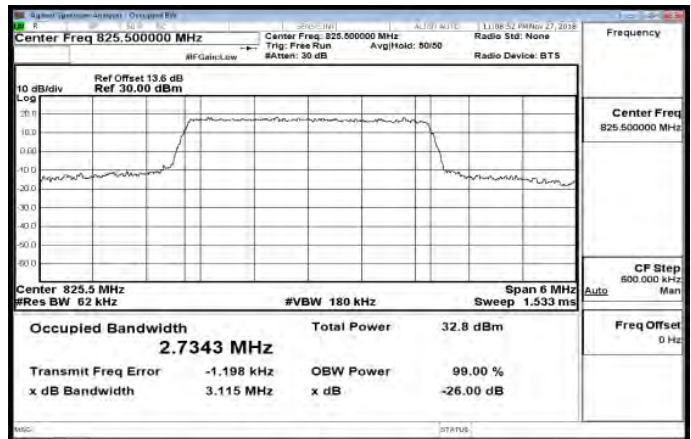
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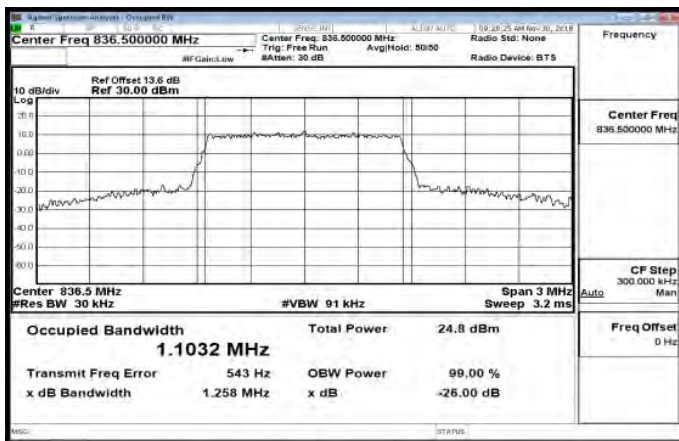
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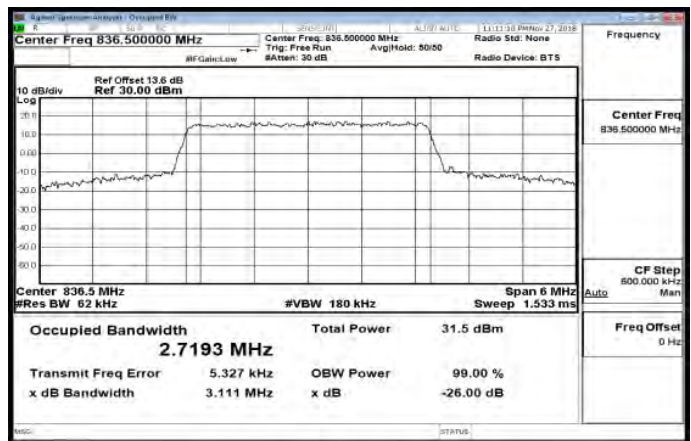
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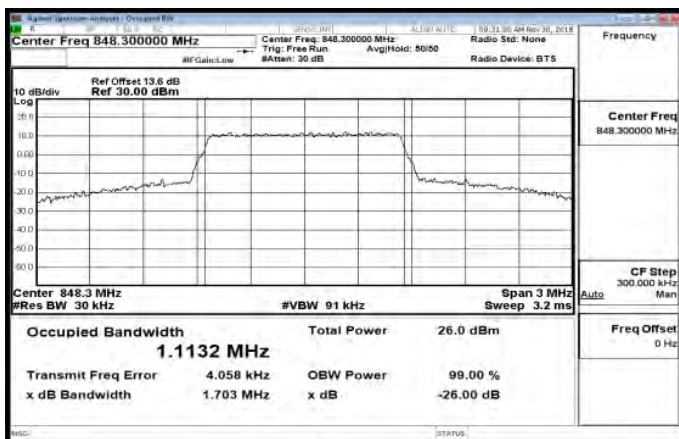
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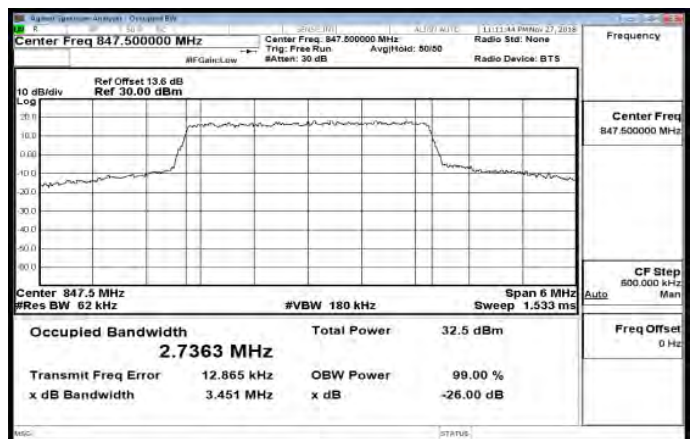
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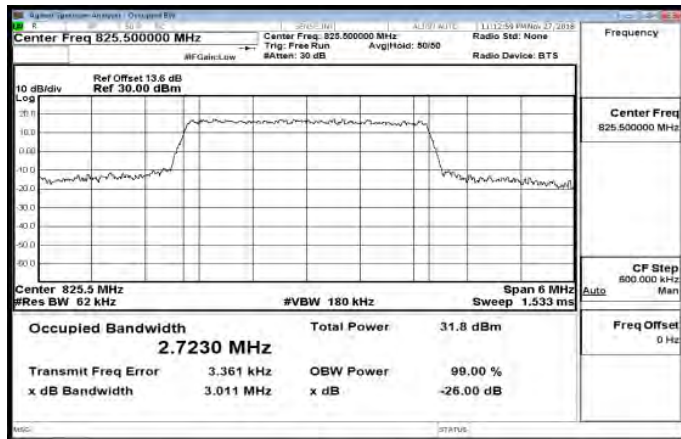
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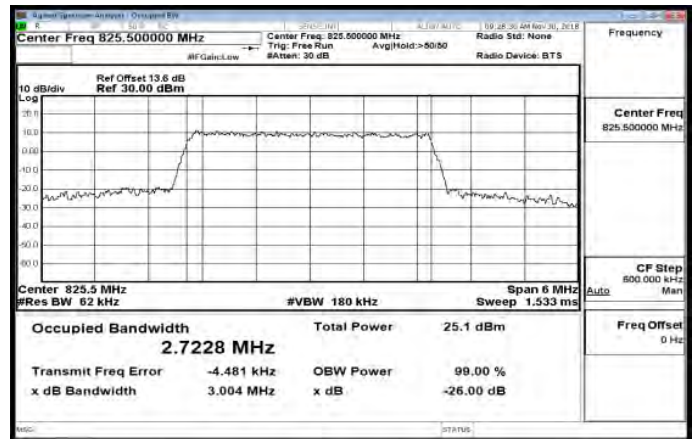
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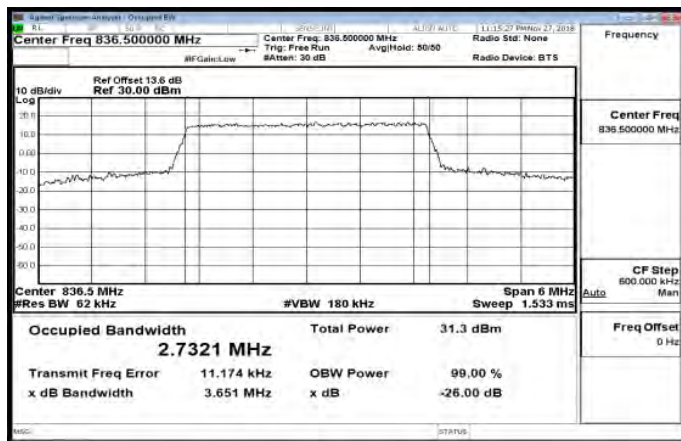
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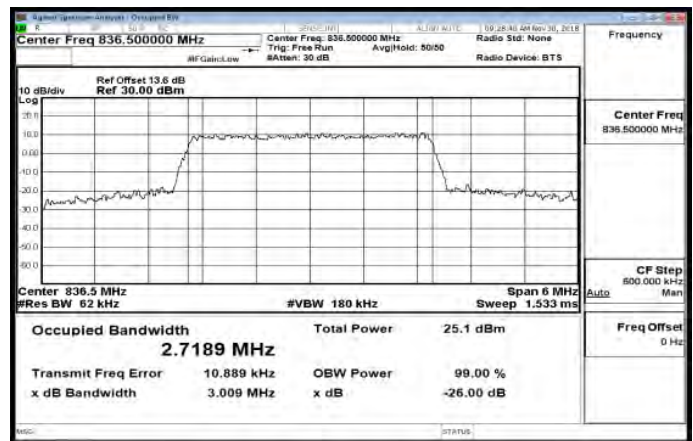
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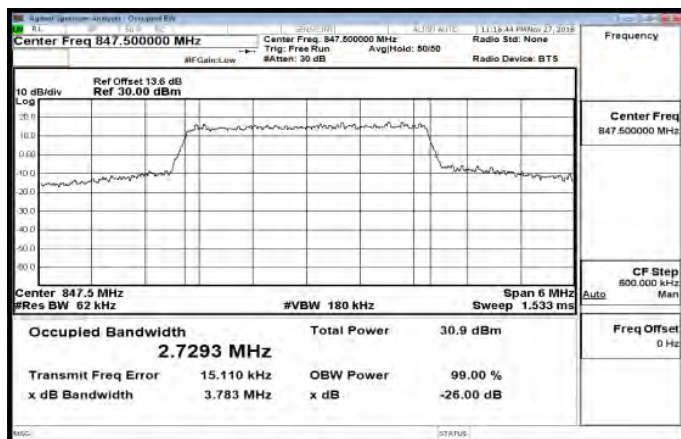
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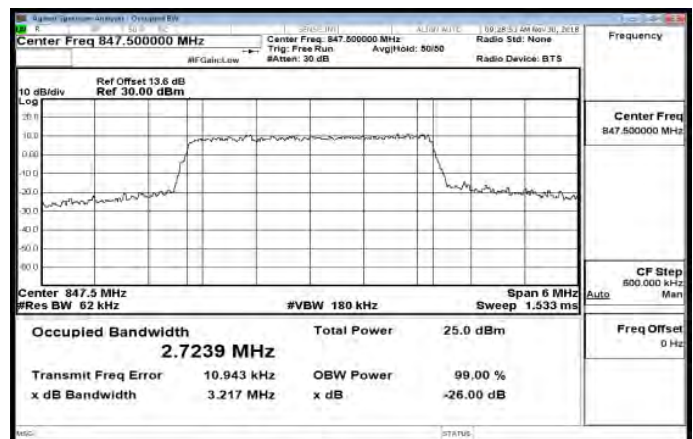
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Band5_3MHz_64QAM_15_0_HighCH20635-847.5



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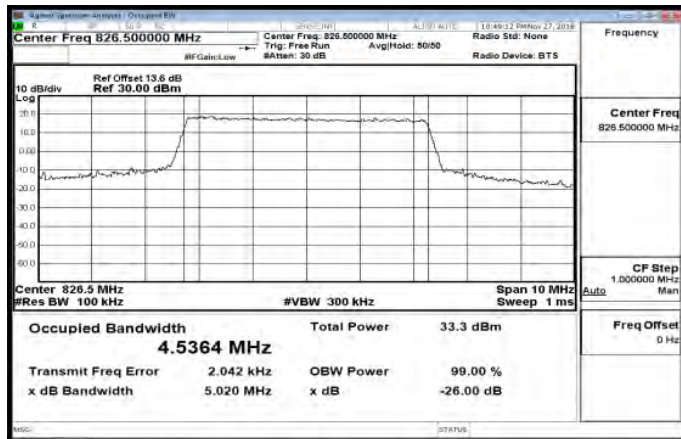
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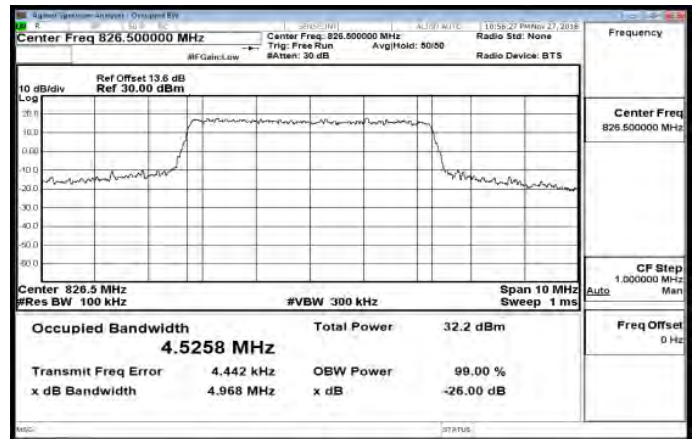
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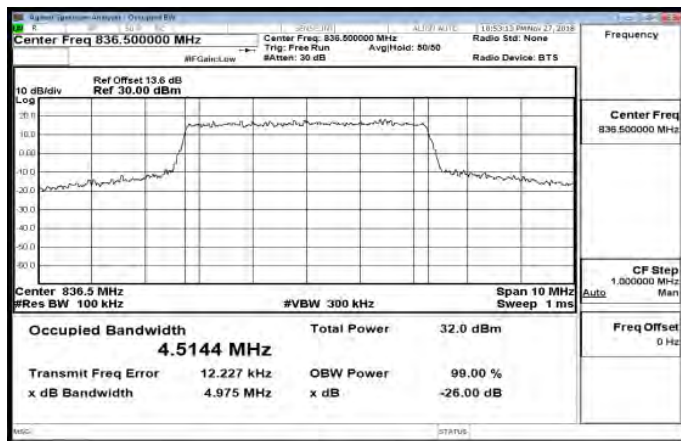
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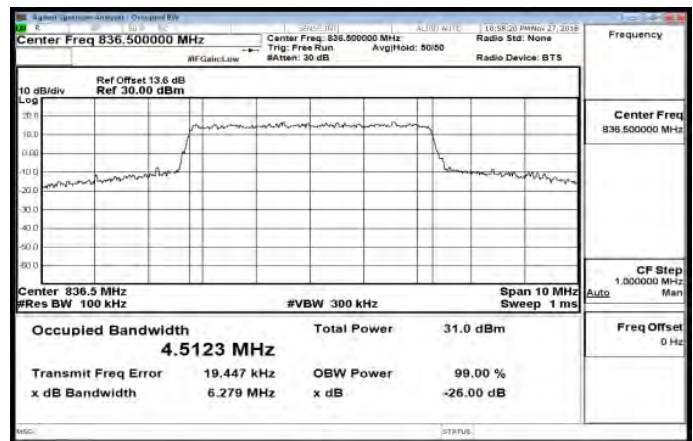
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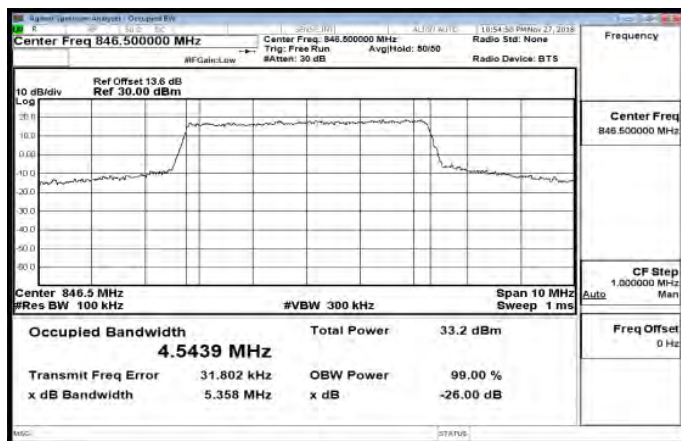
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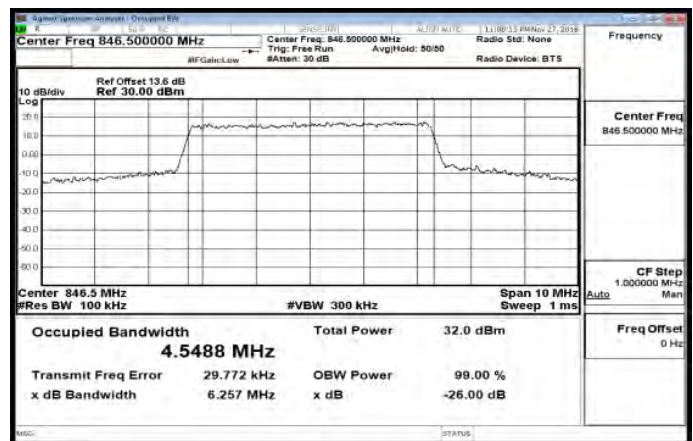
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Band5_5MHz_16QAM_25_0_HighCH20625-846.5



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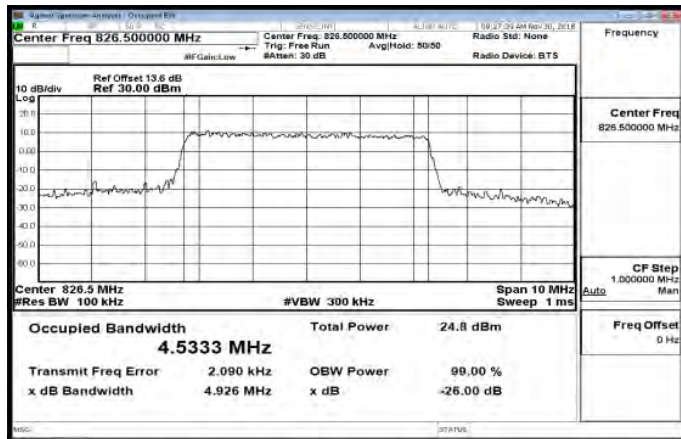
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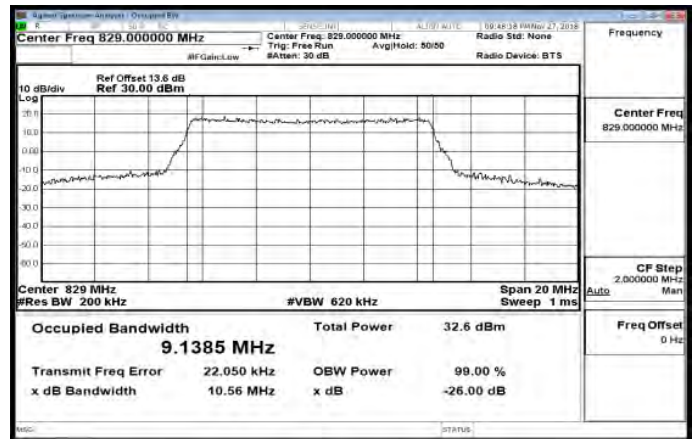
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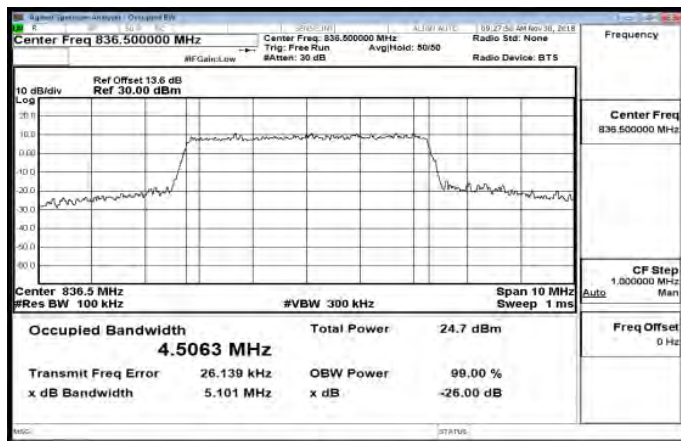
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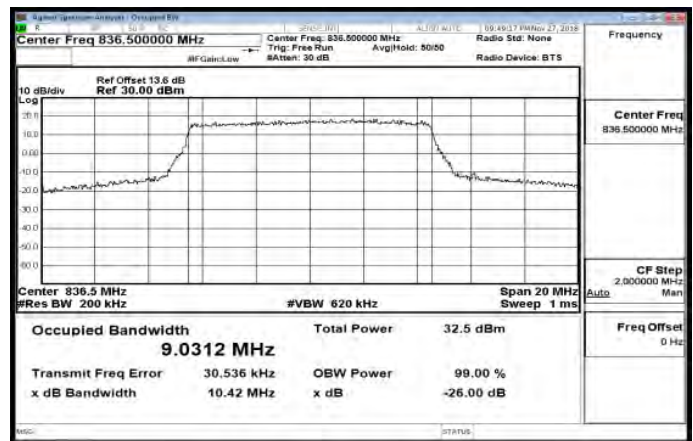
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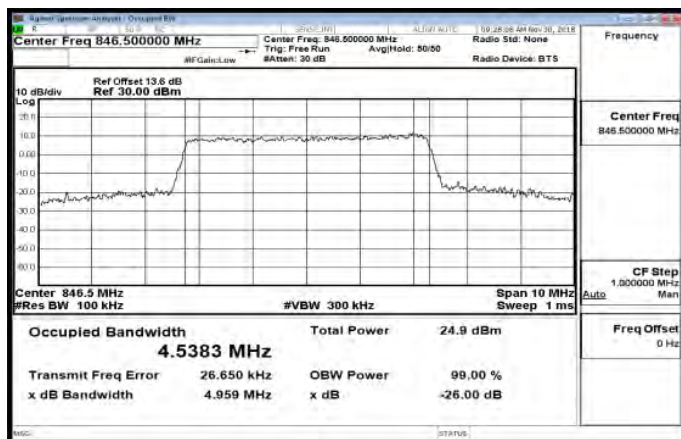
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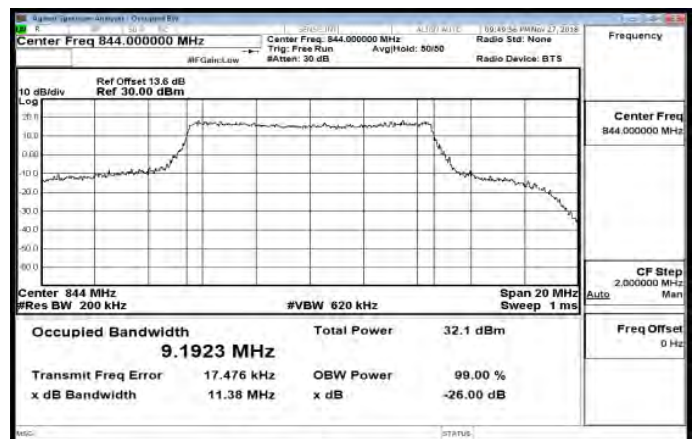
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Band5_10MHz_QPSK_50_0_HighCH20600-844



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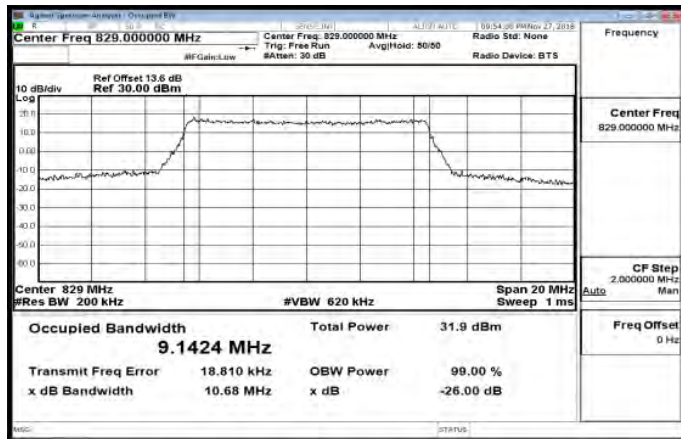
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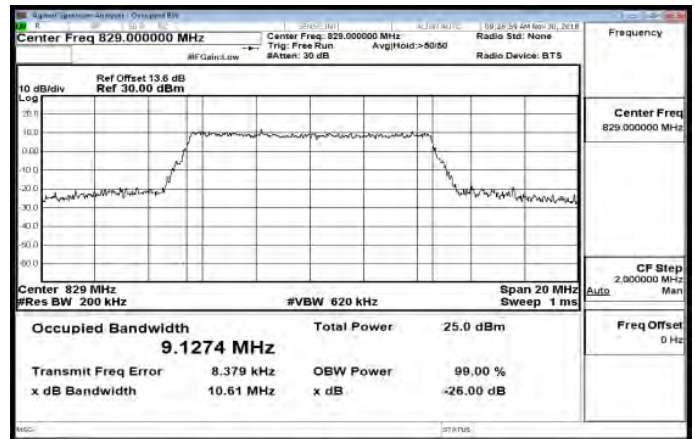
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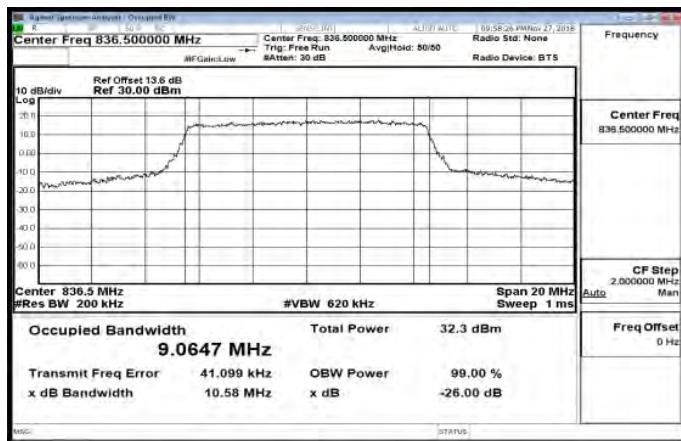
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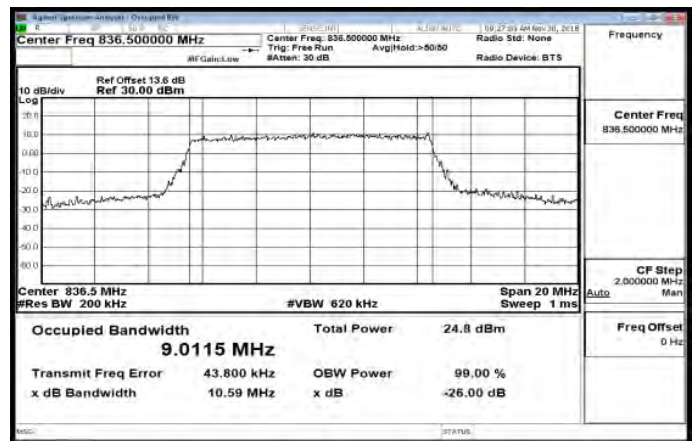
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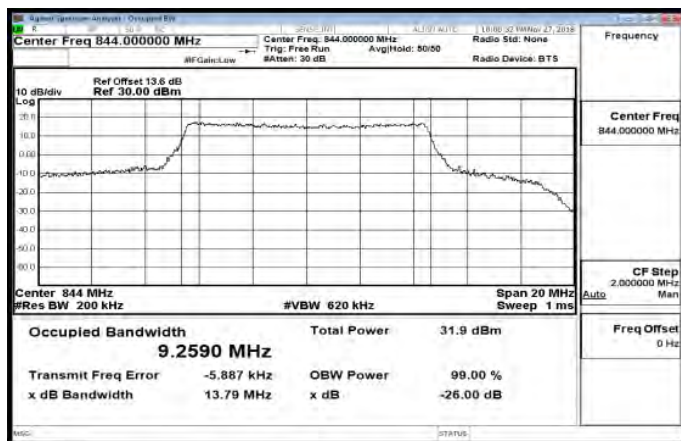
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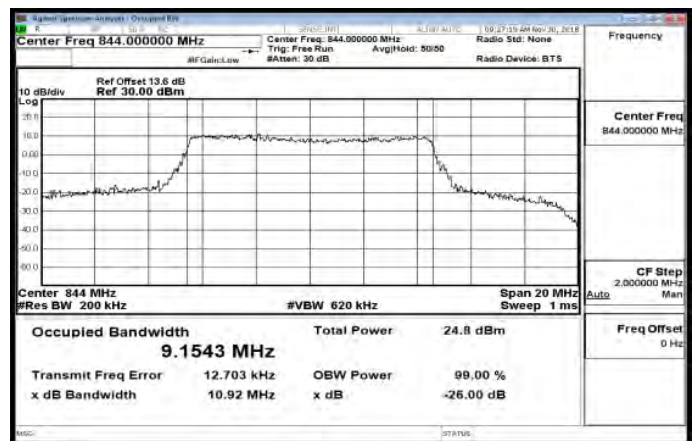
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Band5_10MHz_16QAM_50_0_HighCH20600-844



Band5_10MHz_64QAM_50_0_HighCH20600-844



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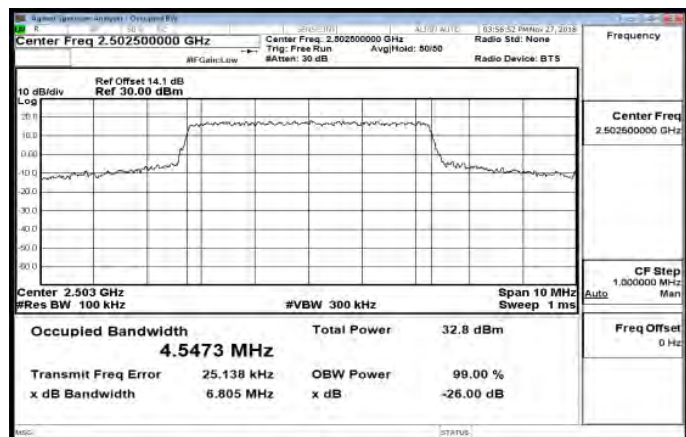
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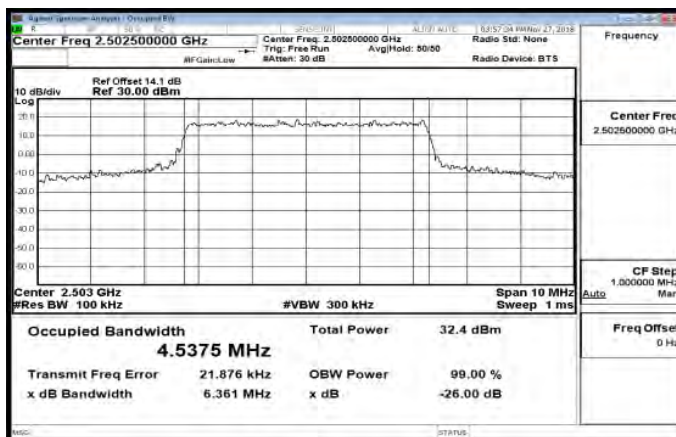
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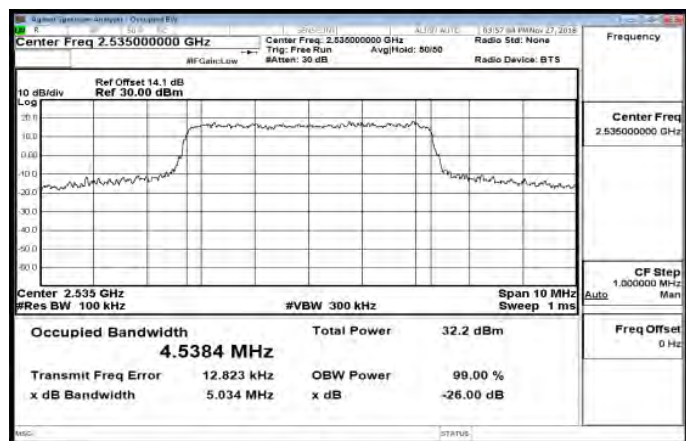
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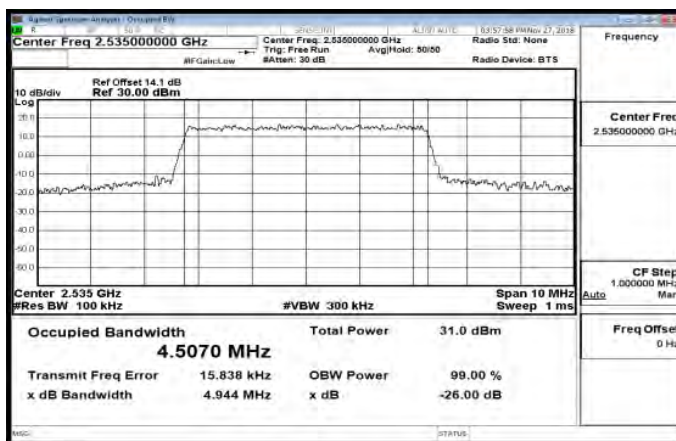
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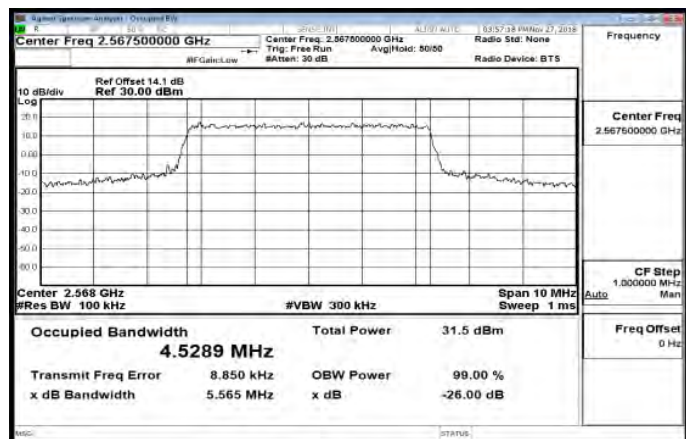
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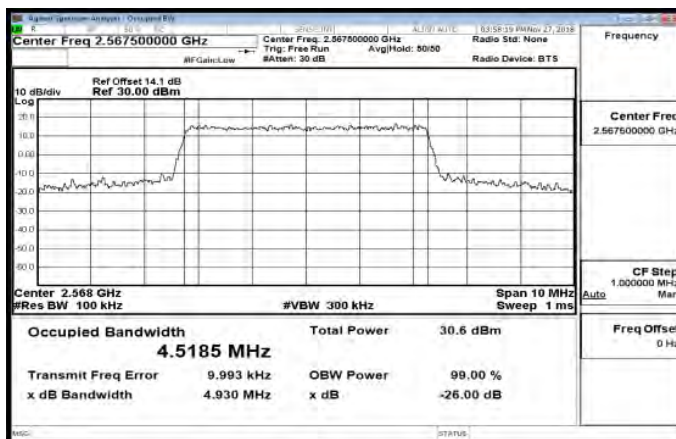
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Band7_5MHz_16QAM_25_0_HighCH21425-2567.5



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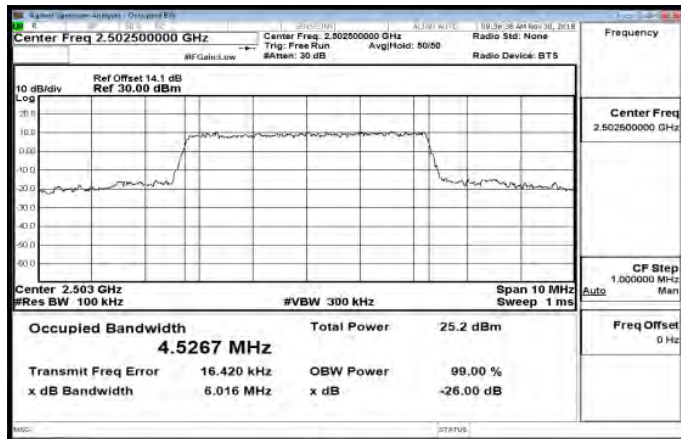
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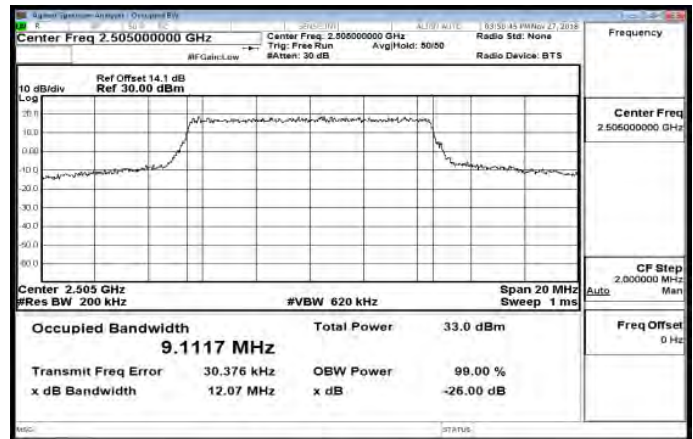
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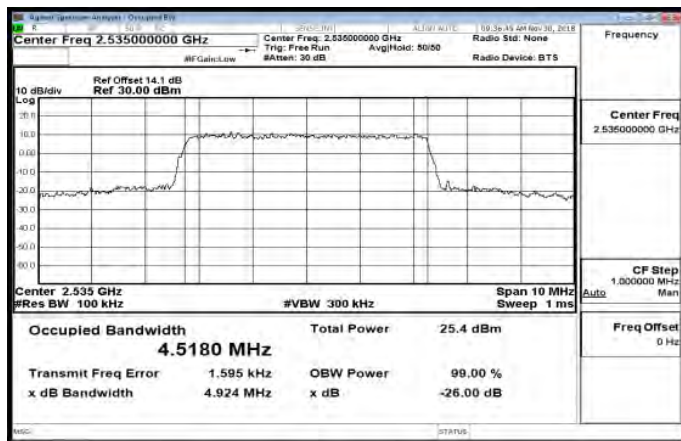
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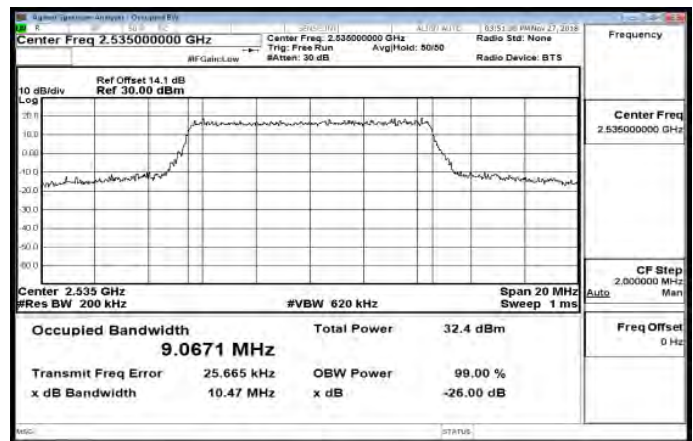
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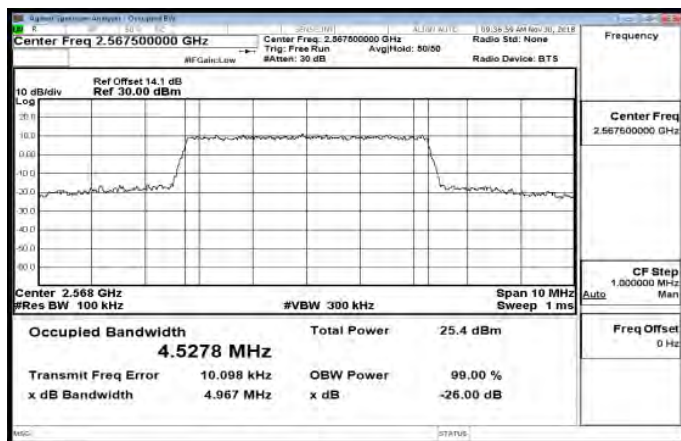
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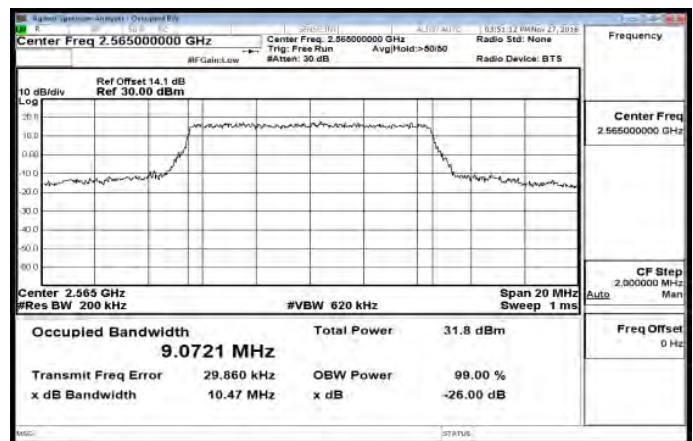
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Band7_10MHz_QPSK_50_0_HighCH21400-2565



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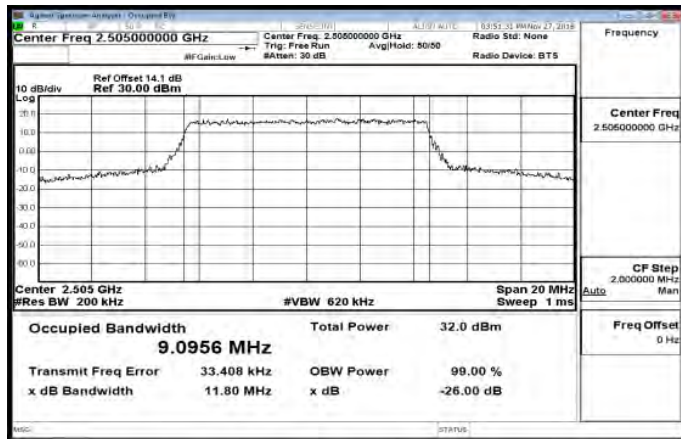
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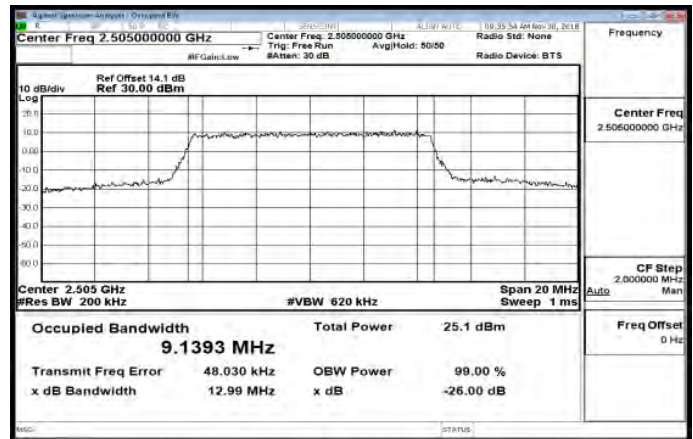
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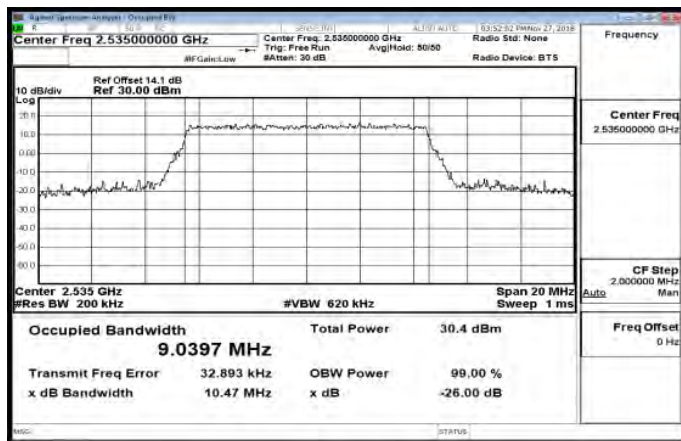
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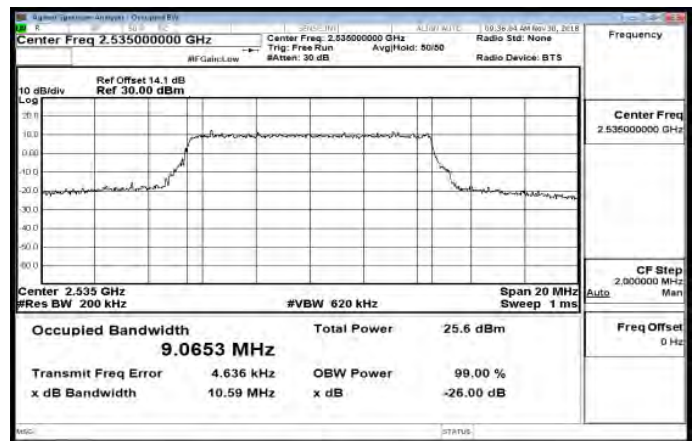
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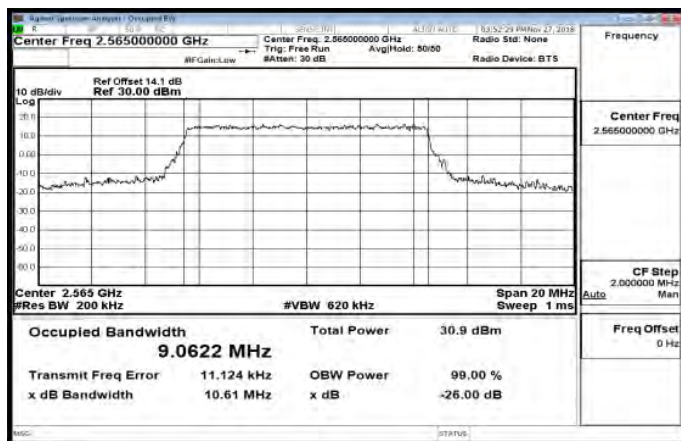
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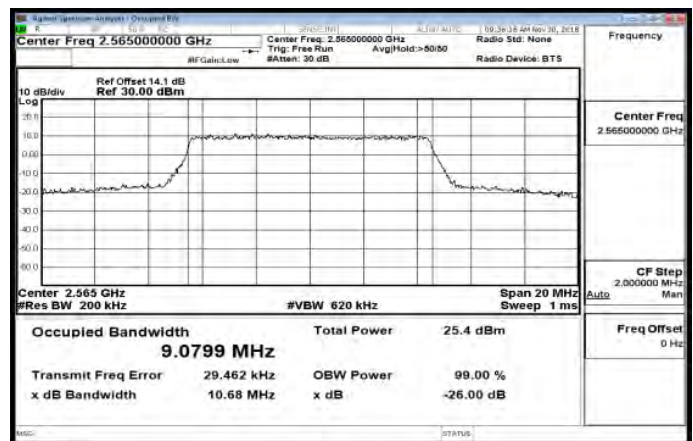
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Band7_10MHz_64QAM_50_0_HighCH21400-2565



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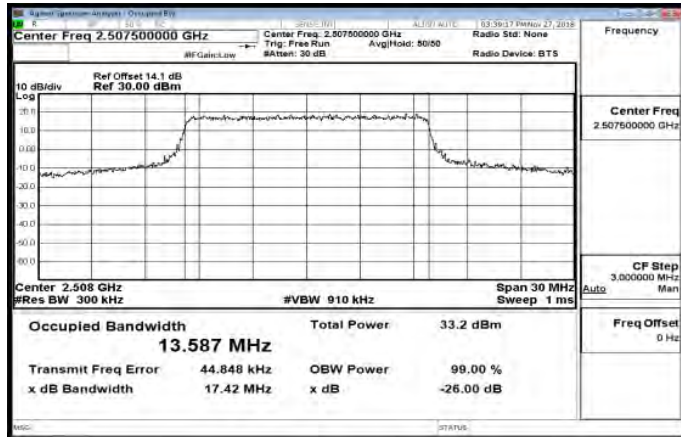
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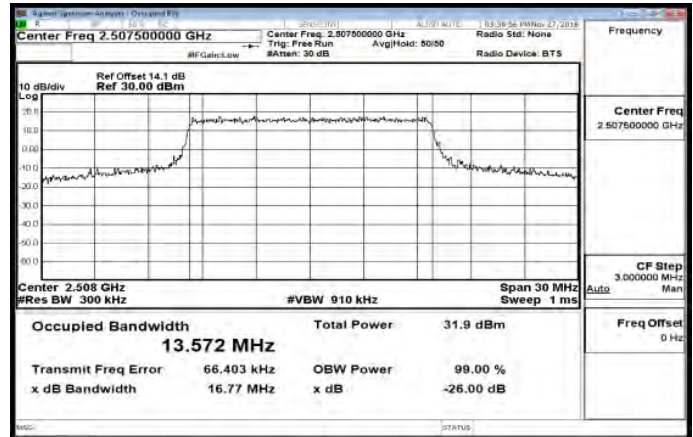
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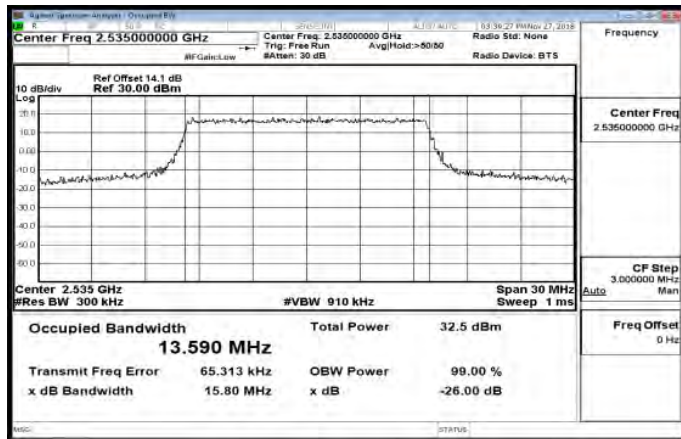
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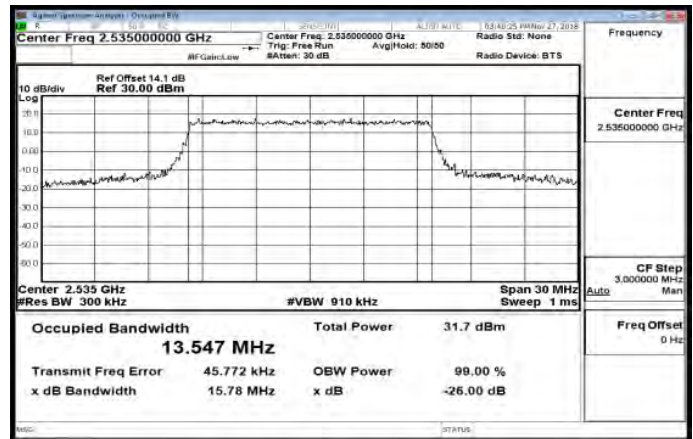
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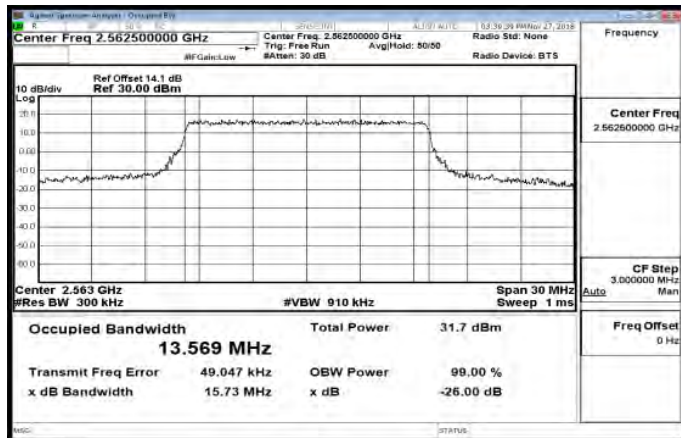
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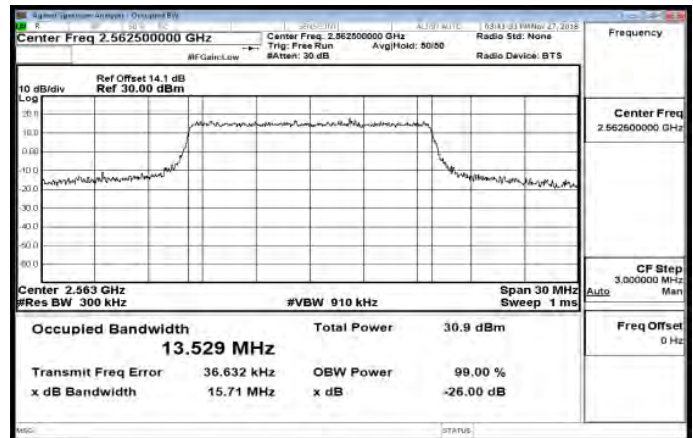
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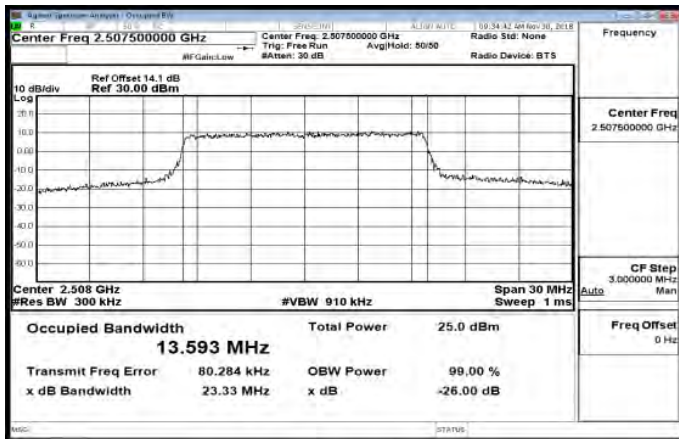
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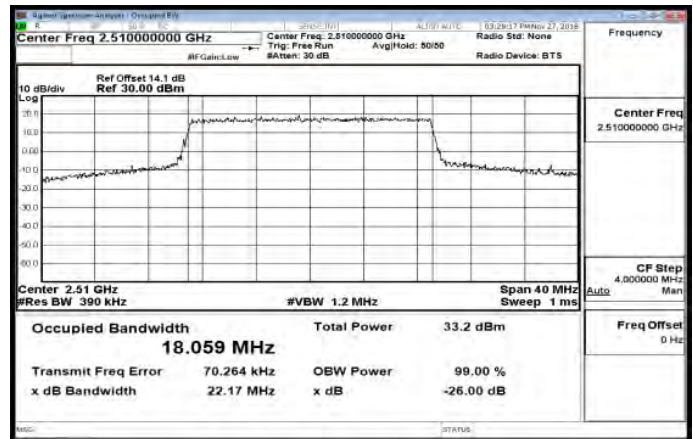
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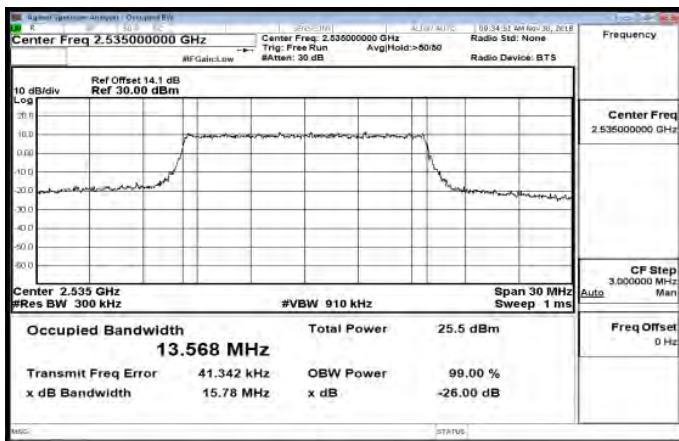
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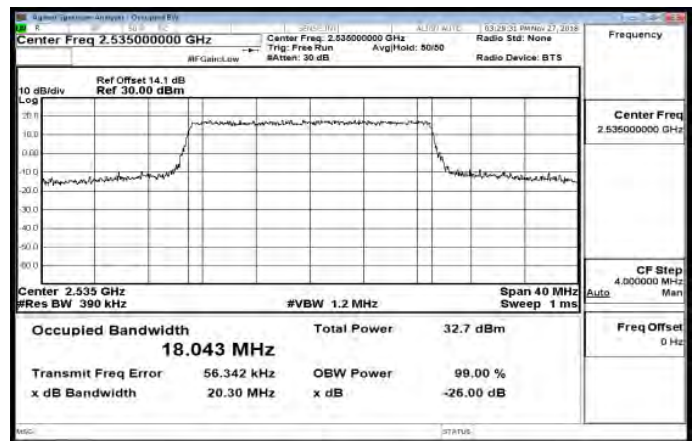
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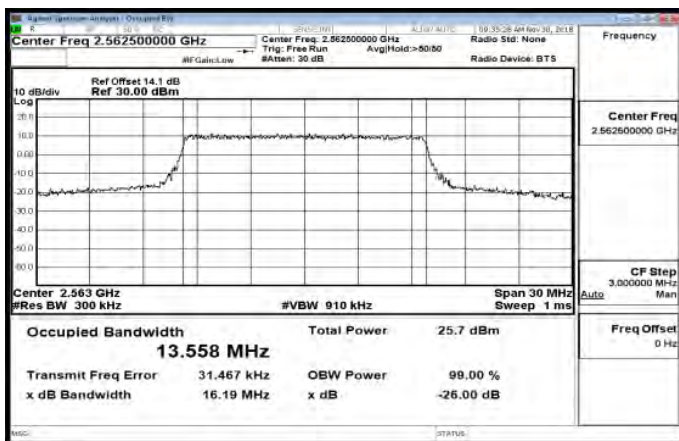
Band7_15MHz_64QAM_75_0_MidCH21100-2535



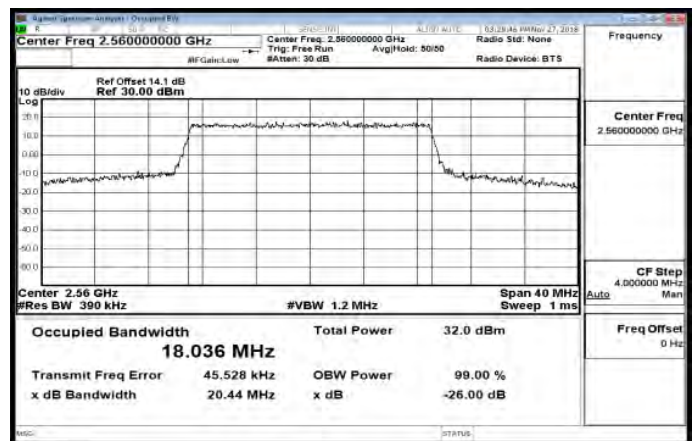
Band7_20MHz_QPSK_100_0_MidCH21100-2535



Band7_15MHz_64QAM_75_0_HighCH21375-2562.5



Band7_20MHz_QPSK_100_0_HighCH21350-2560



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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