

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

Applicant: HP Inc.
3390 East Harmony Road, Fort Collins Colorado , USA 80528

Product Name: Notebook PC

Brand Name: HP

Model No.: TPN-Q225

Model Difference: N/A

Report Number: T190328W02-RP

FCC ID: B94TNQ225WWPD

FCC Rule Part: 2 , 22H & 24E & 27 L & M & 90 R, S

Issue Date: Aug. 08, 2019

Date of Test: Jun. 11, 2019 ~ Aug. 07, 2019

Date of EUT Received: Jun. 11, 2019

Issued by: Compliance Certification Services Inc. Wugu Lab.
No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891,
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The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.26: 2015 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report
The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory).

Tested By:

Henry Chiang

Henry Chiang / Engineer

Approved By:

Kevin Tsai

Kevin Tsai / Deputy Manager



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Revision History

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1. GENERAL PRODUCT INFORMATION

1.1. Product Description

General:

Product Name:	Notebook PC	
Brand Name:	HP	
Model No.:	TPN-Q225	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	15.4Vdc from Rechargeable Li-polymer Battery or 5Vdc, 9Vdc, 10Vdc, 12Vdc, 15Vdc, 20Vdc from AC/DC Adapter	
	Battery:	1. Model No.: HSTNN-DB9K, Supplier: DYNAPACK
	Adapter:	1. Model No.: TPN-AA03, Spplier: Acbel 2. Model No.: TPN-CA06, Spplier: Chicony

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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		1.4	1850.7 - 1914.3	
	20	1860.0 - 1900.0		3	1851.5 - 1913.5	
4	1.4	1710.7 - 1754.3	25	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	15	831.5 - 841.5		
	10	829.0 - 844.0	26 Part90	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				

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	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
INPAQ	PIFA	Main	DQ6PLTE1500 (WA-P-LTE15LTE15LTE16LTE16-02-001)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-0.02
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.21
				WCDMA / HSPA Band V	826.4 ~ 846.6	-3.5
				LTE Band 2	1850 ~ 1910	-0.02
				LTE Band 4	1710 ~ 1755	-0.21
				LTE Band 5	824 ~ 849	-3
				LTE Band 7	2503 ~ 2560	-0.19
				LTE Band 12	699 ~ 716	-0.74
				LTE Band 13	777 ~ 787	-1.35
				LTE Band 14	788 ~ 798	-1.35
				LTE Band 17	704 ~ 716	-0.74
				LTE Band 25	1850 ~ 1915	-0.02
				LTE Band 26	824 ~ 849	-3
				LTE Band 26 Part 90S	814.7 ~ 823.3	-3
				LTE Band 30	2305 ~ 2315	0.44
				LTE Band 38	2570 ~ 2620	-0.37
				LTE Band 41	2496 ~ 2690	-0.19
LTE Band 66	1710 ~ 1780	-0.21				

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	23.89	EIRP	0.245	4M07F9W
HSDPA Band II	24.10	EIRP	0.257	4M06F9W
HSUPA Band II	24.03	EIRP	0.253	4M06F9W
WCDMA Band IV	23.78	EIRP	0.239	4M07F9W
HSDPA Band IV	23.85	EIRP	0.243	4M07F9W
HSUPA Band IV	23.81	EIRP	0.240	4M07F9W
WCDMA Band V	20.45	ERP	0.111	4M08F9W
HSDPA Band V	20.35	ERP	0.108	4M08F9W
HSUPA Band V	20.47	ERP	0.111	4M08F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	18.92	EIRP	0.078	1M11G7D
	1.4	16QAM	18.94	EIRP	0.078	1M11D7W
	1.4	64QAM	18.92	EIRP	0.078	1M11D7W
	3	QPSK	18.92	EIRP	0.078	2M73G7D
	3	16QAM	18.90	EIRP	0.078	2M73D7W
	3	64QAM	18.90	EIRP	0.078	2M73D7W
	5	QPSK	18.94	EIRP	0.078	4M54G7D
	5	16QAM	18.94	EIRP	0.078	4M52D7W
	5	64QAM	18.90	EIRP	0.078	4M53D7W
	10	QPSK	18.94	EIRP	0.078	9M08G7D
	10	16QAM	18.92	EIRP	0.078	9M12D7W
	10	64QAM	18.94	EIRP	0.078	9M08D7W
	15	QPSK	18.91	EIRP	0.078	13M5G7D
	15	16QAM	18.92	EIRP	0.078	13M6D7W
	15	64QAM	18.88	EIRP	0.077	13M6D7W
	20	QPSK	18.97	EIRP	0.079	18M0G7D
	20	16QAM	18.92	EIRP	0.078	18M0D7W
	20	64QAM	18.94	EIRP	0.078	18M0D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	19.25	EIRP	0.084	1M11G7D
	1.4	16QAM	19.23	EIRP	0.084	1M11D7W
	1.4	64QAM	19.25	EIRP	0.084	1M11D7W
	3	QPSK	18.68	EIRP	0.074	2M72G7D
	3	16QAM	18.66	EIRP	0.073	2M73D7W
	3	64QAM	18.50	EIRP	0.071	2M73D7W
	5	QPSK	19.23	EIRP	0.084	4M53G7D
	5	16QAM	19.23	EIRP	0.084	4M52D7W
	5	64QAM	19.23	EIRP	0.084	4M52D7W
	10	QPSK	19.22	EIRP	0.084	9M09G7D
	10	16QAM	19.23	EIRP	0.084	9M10D7W
	10	64QAM	19.22	EIRP	0.084	9M09D7W
	15	QPSK	19.21	EIRP	0.083	13M6G7D
	15	16QAM	19.23	EIRP	0.084	13M6D7W
	15	64QAM	19.23	EIRP	0.084	13M6D7W
	20	QPSK	19.28	EIRP	0.085	18M1G7D
	20	16QAM	19.20	EIRP	0.083	18M1D7W
	20	64QAM	19.23	EIRP	0.084	18M1D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	18.24	ERP	0.067	1M11G7D
	1.4	16QAM	18.27	ERP	0.067	1M12D7W
	1.4	64QAM	18.26	ERP	0.067	1M11D7W
	3	QPSK	18.26	ERP	0.067	2M74G7D
	3	16QAM	18.25	ERP	0.067	2M73D7W
	3	64QAM	18.25	ERP	0.067	2M72D7W
	5	QPSK	18.28	ERP	0.067	4M54G7D
	5	16QAM	18.27	ERP	0.067	4M53D7W
	5	64QAM	18.28	ERP	0.067	4M53D7W
	10	QPSK	18.37	ERP	0.069	9M11G7D
	10	16QAM	18.26	ERP	0.067	9M12D7W
	10	64QAM	18.28	ERP	0.067	9M12D7W
7	5	QPSK	15.77	EIRP	0.038	4M52G7D
	5	16QAM	15.75	EIRP	0.038	4M52D7W
	5	64QAM	15.74	EIRP	0.037	4M52D7W
	10	QPSK	15.76	EIRP	0.038	9M09G7D
	10	16QAM	15.77	EIRP	0.038	9M08D7W
	10	64QAM	15.76	EIRP	0.038	9M09D7W
	15	QPSK	15.76	EIRP	0.038	13M6G7D
	15	16QAM	15.77	EIRP	0.038	13M6D7W
	15	64QAM	15.76	EIRP	0.038	13M6D7W
	20	QPSK	15.80	EIRP	0.038	18M1G7D
	20	16QAM	15.78	EIRP	0.038	18M1D7W
	20	64QAM	15.77	EIRP	0.038	18M1D7W
12	1.4	QPSK	19.00	ERP	0.079	1M11G7D
	1.4	16QAM	19.01	ERP	0.080	1M11D7W
	1.4	64QAM	18.97	ERP	0.079	1M10D7W
	3	QPSK	19.01	ERP	0.080	2M73G7D
	3	16QAM	19.01	ERP	0.080	2M72D7W
	3	64QAM	19.00	ERP	0.079	2M72D7W
	5	QPSK	19.02	ERP	0.080	4M51G7D
	5	16QAM	19.02	ERP	0.080	4M51D7W
	5	64QAM	19.01	ERP	0.080	4M51D7W
	10	QPSK	19.07	ERP	0.081	9M10G7D
	10	16QAM	19.02	ERP	0.080	9M09D7W
	10	64QAM	18.98	ERP	0.079	9M10D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	19.41	ERP	0.087	4M54G7D
	5	16QAM	19.41	ERP	0.087	4M52D7W
	5	64QAM	19.40	ERP	0.087	4M52D7W
	10	QPSK	19.49	ERP	0.089	9M01G7D
	10	16QAM	19.44	ERP	0.088	8M99D7W
	10	64QAM	19.34	ERP	0.086	9M01D7W
14	5	QPSK	19.44	ERP	0.088	4M52G7D
	5	16QAM	19.44	ERP	0.088	4M51D7W
	5	64QAM	19.42	ERP	0.087	4M52D7W
	10	QPSK	19.48	ERP	0.089	9M04G7D
	10	16QAM	19.44	ERP	0.088	9M02D7W
	10	64QAM	19.36	ERP	0.086	8M99D7W
17	5	QPSK	18.92	ERP	0.078	4M53G7D
	5	16QAM	18.89	ERP	0.077	4M51D7W
	5	64QAM	19.88	ERP	0.097	4M52D7W
	10	QPSK	19.07	ERP	0.081	9M05G7D
	10	16QAM	18.94	ERP	0.078	9M06D7W
	10	64QAM	18.95	ERP	0.079	9M05D7W
25	1.4	QPSK	18.91	EIRP	0.078	1M11G7D
	1.4	16QAM	18.92	EIRP	0.078	1M10D7W
	1.4	64QAM	18.92	EIRP	0.078	1M11D7W
	3	QPSK	18.89	EIRP	0.077	2M72G7D
	3	16QAM	18.90	EIRP	0.078	2M72D7W
	3	64QAM	18.89	EIRP	0.077	2M71D7W
	5	QPSK	18.89	EIRP	0.077	4M52G7D
	5	16QAM	18.88	EIRP	0.077	4M51D7W
	5	64QAM	18.90	EIRP	0.078	4M52D7W
	10	QPSK	18.90	EIRP	0.078	9M08G7D
	10	16QAM	18.90	EIRP	0.078	9M07D7W
	10	64QAM	18.90	EIRP	0.078	9M07D7W
	15	QPSK	18.91	EIRP	0.078	13M5G7D
	15	16QAM	18.89	EIRP	0.077	13M5D7W
	15	64QAM	18.91	EIRP	0.078	13M5D7W
20	QPSK	18.97	EIRP	0.079	18M0G7D	
20	16QAM	18.92	EIRP	0.078	18M1D7W	
20	64QAM	18.90	EIRP	0.078	18M0D7W	

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission	
26	1.4	QPSK	18.28	ERP	0.067	1M11G7D
	1.4	16QAM	18.29	ERP	0.067	1M11D7W
	1.4	64QAM	18.27	ERP	0.067	1M11D7W
	3	QPSK	18.28	ERP	0.067	2M73G7D
	3	16QAM	18.28	ERP	0.067	2M72D7W
	3	64QAM	18.28	ERP	0.067	2M72D7W
	5	QPSK	18.25	ERP	0.067	4M53G7D
	5	16QAM	18.27	ERP	0.067	4M52D7W
	5	64QAM	18.26	ERP	0.067	4M53D7W
	10	QPSK	18.25	ERP	0.067	9M10G7D
	10	16QAM	18.25	ERP	0.067	9M10D7W
	10	64QAM	18.26	ERP	0.067	9M16D7W
	15	QPSK	18.34	ERP	0.068	13M6G7D
	15	16QAM	18.29	ERP	0.067	13M6D7W
	15	64QAM	18.29	ERP	0.067	13M6D7W
26 90S	1.4	QPSK	18.26	ERP	0.067	1M10G7D
	1.4	16QAM	18.25	ERP	0.067	1M11D7W
	1.4	64QAM	18.26	ERP	0.067	1M11D7W
	3	QPSK	18.26	ERP	0.067	2M72G7D
	3	16QAM	18.26	ERP	0.067	2M72D7W
	3	64QAM	18.23	ERP	0.067	2M72D7W
	5	QPSK	18.23	ERP	0.067	4M53G7D
	5	16QAM	18.19	ERP	0.066	4M51D7W
	5	64QAM	18.24	ERP	0.067	4M52D7W
	10	QPSK	18.20	ERP	0.066	9M04G7D
	10	16QAM	18.19	ERP	0.066	9M01D7W
	10	64QAM	18.16	ERP	0.065	9M07D7W
30	5	QPSK	17.84	EIRP	0.061	4M52G7D
	5	16QAM	17.86	EIRP	0.061	4M52D7W
	5	64QAM	17.86	EIRP	0.061	4M51D7W
	10	QPSK	17.92	EIRP	0.062	9M05G7D
	10	16QAM	17.86	EIRP	0.061	9M01D7W
	10	64QAM	17.82	EIRP	0.061	9M05D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)	(W)	Type of Emission		
38	5	QPSK	17.45	EIRP	0.056	4M51G7D	
	5	16QAM	17.46	EIRP	0.056	4M51D7W	
	5	64QAM	17.41	EIRP	0.055	4M52D7W	
	10	QPSK	17.46	EIRP	0.056	9M07G7D	
	10	16QAM	17.42	EIRP	0.055	9M05D7W	
	10	64QAM	17.43	EIRP	0.055	9M04D7W	
	15	QPSK	17.46	EIRP	0.056	13M5G7D	
	15	16QAM	17.46	EIRP	0.056	13M6D7W	
	15	64QAM	17.46	EIRP	0.056	13M5D7W	
	20	QPSK	17.62	EIRP	0.058	18M0G7D	
	20	16QAM	17.56	EIRP	0.057	18M0D7W	
	20	64QAM	17.46	EIRP	0.056	18M0D7W	
	41	5	QPSK	17.82	EIRP	0.061	4M53G7D
		5	16QAM	17.73	EIRP	0.059	4M51D7W
		5	64QAM	17.73	EIRP	0.059	4M51D7W
10		QPSK	17.72	EIRP	0.059	9M06G7D	
10		16QAM	17.72	EIRP	0.059	9M07D7W	
10		64QAM	17.73	EIRP	0.059	9M07D7W	
15		QPSK	17.74	EIRP	0.059	13M5G7D	
15		16QAM	17.74	EIRP	0.059	13M5D7W	
15		64QAM	17.74	EIRP	0.059	13M5D7W	
20		QPSK	17.79	EIRP	0.060	18M0G7D	
20	16QAM	17.74	EIRP	0.059	18M0D7W		
20	64QAM	17.72	EIRP	0.059	18M0D7W		

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
66	1.4	QPSK	19.26	EIRP	0.084	1M11G7D
	1.4	16QAM	19.26	EIRP	0.084	1M11D7W
	1.4	64QAM	19.25	EIRP	0.084	1M10D7W
	3	QPSK	19.23	EIRP	0.084	2M73G7D
	3	16QAM	19.23	EIRP	0.084	2M72D7W
	3	64QAM	19.25	EIRP	0.084	2M72D7W
	5	QPSK	19.26	EIRP	0.084	4M52G7D
	5	16QAM	19.26	EIRP	0.084	4M51D7W
	5	64QAM	19.25	EIRP	0.084	4M51D7W
	10	QPSK	19.26	EIRP	0.084	9M09G7D
	10	16QAM	19.23	EIRP	0.084	9M11D7W
	10	64QAM	19.25	EIRP	0.084	9M10D7W
	15	QPSK	19.25	EIRP	0.084	13M6G7D
	15	16QAM	19.25	EIRP	0.084	13M6D7W
	15	64QAM	19.25	EIRP	0.084	13M6D7W
	20	QPSK	19.28	EIRP	0.085	18M0G7D
	20	16QAM	19.25	EIRP	0.084	18M0D7W
	20	64QAM	19.26	EIRP	0.084	18M0D7W

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1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

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

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

1.5. Test Facility

Compliance Certification Services Inc. Wugu Lab. No.11, Wugong 6th Rd.,
Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.) (TAF code 1309)

FCC Designation number: TW1309

1.6. Special Accessories

No special accessories were used during testing.

1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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2. SYSTEM TEST CONFIGURATION

2.1. EUT Configuration

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

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)	3.8	10	13.8
High Band (Above 1 GHz)	4.0	10	14

2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	15.4	659.4
WCDMA B4		699.4
WCDMA B5		702.4
LTE Band 2		778
LTE Band 4		865
LTE Band 5		650
LTE Band 7		638
LTE Band 12		646
LTE Band 13		625
LTE Band 14		668
LTE Band 17		628
LTE Band 25		648
LTE Band 26		685
LTE Band 26 (Part 90S)		648
LTE Band 30		767
LTE Band 38		833
LTE Band 41		798
LTE Band 66		799

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2.6. Configuration of Tested System

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

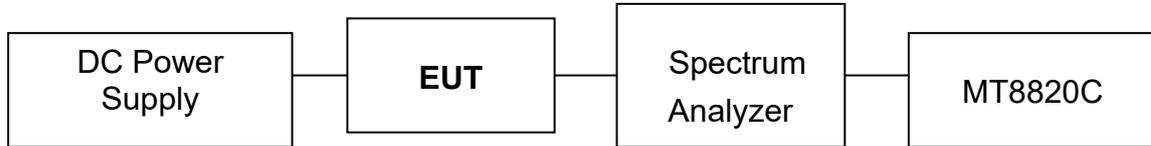


Fig. 2-2 Configuration of Tested System (Fixed Channel-Radiated)

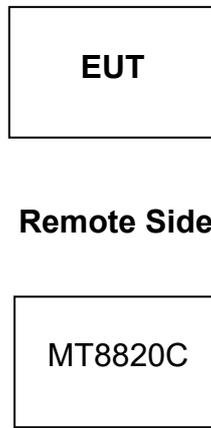


Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyzer	Anritsu	MT8820C	6201465317	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	E2-plan
WCDMA/HSPA Band IV	E2-plan
WCDMA/HSPA Band V	E2-plan
LTE Band 2	E2-plan
LTE Band 4	E2-plan
LTE Band 5	E2-plan
LTE Band 7	E2-plan
LTE Band 12	E2-plan
LTE Band 13	E2-plan
LTE Band 14	E2-plan
LTE Band 17	E2-plan
LTE Band 25	E2-plan
LTE Band 26	E2-plan
LTE Band 26 (Part 90S)	E2-plan
LTE Band 30	E2-plan
LTE Bnad 38	E2-plan
LTE Band 41	E2-plan
LTE Band 66	E2-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	1312, 1413, 1513 9262, 9400, 9538	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, 9538	WCDMA/HSPA Band II WCDMA/HSPA Band IV WCDMA/HSPA Band V
PEAK TO AVERAGE RATIO	4132 to 4233 1312 to 1513	4132, 4183, 4233 1312, 1413, 1513	WCDMA/HSPA Band II WCDMA/HSPA Band IV
BAND EDGE	4132 to 4233 1312 to 1513 9262 to 9538	4132, 4233 1312, 1513 9262, 9538	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, 9538	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, 9538	WCDMA Band II WCDMA 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	18700 to 19100	18700, 18900, 19100	20MHz	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	20050 to 20300	20050, 20175, 20300	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 5 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	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
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
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 12 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	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
CONDUCTED EMISSION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23060 to 23130	23060, 23095, 23130	10MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 13 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23230	23230	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23230	23230	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23205 to 23255	23205, 23230, 23255	5MHz	QPSK, 16QAM, 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 Offest Full RB
	23230	23230	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETECTED EMISSION	23205 to 23255	23205, 23230, 23255	5MHz	QPSK	1 RB, 0 RB Offest
	23230	23230	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23230	23230	10MHz	QPSK	1 RB, 49 RB Offest

LTE Band 14 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23330	23330	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	23305 to 23355	23305,23330,23355	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23330	23330	10MHz	QPSK, 16QAM, 64QAM	Full RB
EMISSION MASK	23305 to 23355	23305, 23355	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETECTED EMISSION	23305 to 23355	23305,23330,23355	5MHz	QPSK	1 RB, 0 RB Offest
	23330	23330	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	23330	23330	10MHz	QPSK	1 RB, 0 RB Offest

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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
CONDUCTED 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	23780 to 23800	23780, 23800	10MHz	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	64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	64QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	64QAM	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
CONDCUDED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK	1 RB, 0 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK	1 RB, 0 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK	1 RB, 0 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK	1 RB, 0 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK	1 RB, 0 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26140 to 26590	26140, 26365, 26590	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 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
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	75 RB, 0 RB Offest

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LTE Band 26 for 90S MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	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 STABILITY	26697 to 26783	26740	1.4MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	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
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
CONDCUDED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26705 to 26775	26705, 26740, 26775	3MHz	QPSK	8 RB, 4 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
CONDUCTED EMISSION	27685 to 27735	27685, 27710, 27735	5MHz	QPSK	1 RB, 0 RB Offest
	27710	27710	10MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	27710	27710	10MHz	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, 64QAM	1 RB/ 0,24 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	37775 to 38225	37775, 38000, 38225	5MHz	QPSK, 16QAM, 64QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK, 16QAM, 64QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK, 16QAM, 64QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	37775 to 38225	37775, 38000, 38225	5MHz	64QAM	Full RB
	37800 to 38200	37800 , 38000, 38200	10MHz	64QAM	Full RB
	37825 to 38175	37825 , 38000, 38175	15MHz	64QAM	Full RB
	37850 to 38150	37850 , 38000, 38150	20MHz	64QAM	Full RB
CONDUCTED EMISSION	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB, 0 RB Offest
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB, 0 RB Offest
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB, 0 RB Offest
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	37775 to 38225	37775, 38000, 38225	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	37800 to 38200	37800 , 38000, 38200	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	37825 to 38175	37825 , 38000, 38175	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	37850 to 38150	37850 , 38000, 38150	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset

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LTE Band 41 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	39675 to 41565	39675, 40620, 41565	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	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
CONDCUDED EMISSION	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB, 0 RB Offest
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB, 0 RB Offest
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB, 0 RB Offest
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offest
EMISSION MASK	39675 to 41565	39675, 40620, 41565	5MHz	QPSK	1 RB/ 0,24 RB Offest 25 RB/ 0 Offset
	39700 to 41540	39700, 40620, 41540	10MHz	QPSK	1 RB/ 0,49 RB Offest 50 RB/ 0 Offset
	39725 to 41515	39725, 40620, 41515	15MHz	QPSK	1 RB/ 0,74 RB Offest 75 RB/ 0 Offset
	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB/ 0,99 RB Offest 100 RB/ 0 Offset
RADIATED EMISSION	39750 to 41490	39750, 40620, 41490	20MHz	QPSK	1 RB, 0 RB Offest

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LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 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
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 Output Power	+/- 1.15 dB
99% Occupied Bandwidth	+/- 0.89%
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.89 dB
Frequency Stability vs. Temperature	+/- 2.64 Hz
3M Semi Anechoic Chamber / 30M~200M	+/- 4.12 dB
3M Semi Anechoic Chamber / 200MHz ~ 1GHz	+/- 4.68
3M Semi Anechoic Chamber / 1GHz ~ 8GHz	+/- 5.18
3M Semi Anechoic Chamber / 8GHz ~ 18GHz	+/- 5.47
3M Semi Anechoic Chamber / 18GHz ~ 26GHz	+/- 3.81
3M Semi Anechoic Chamber / 26GHz ~ 40GHz	+/- 3.87

Note:

1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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6. MAXMUM OUTPUT POWER

6.1. Standard Applicable

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

ERP/EIRP LIMIT

According to FCC §2.1046

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

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

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

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

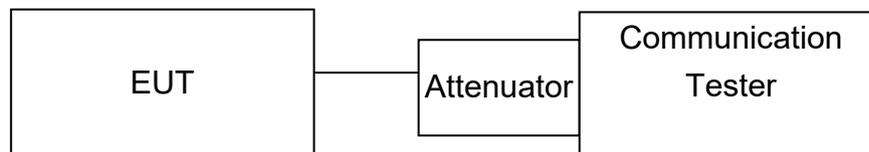
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

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

6.2. Test Set-up



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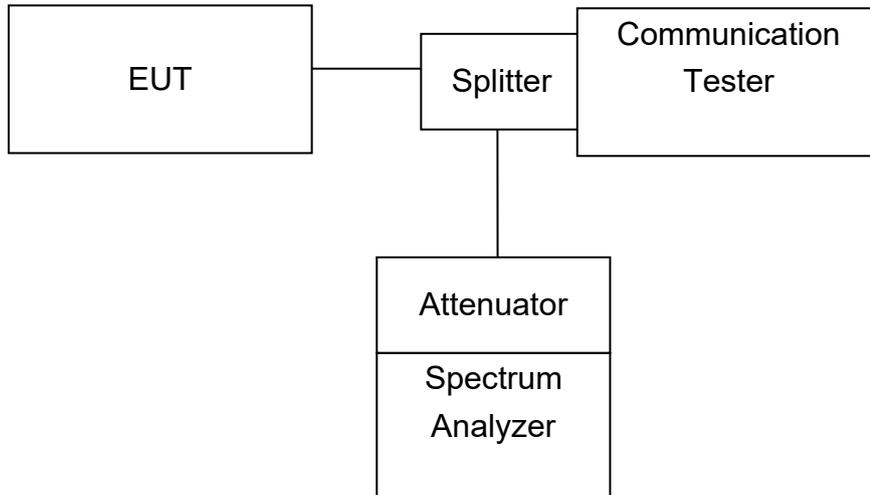
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For Band 30



Note: Measurement setup for testing on Antenna connector

6.3. Measurement Procedure

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

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

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

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

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TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

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

where: ERP/EIRP = effective or equivalent radiated power, respectively (expressed in the same units as PMeas, typically dBW or dBm);

PMeas = measured transmitter output power or PSD, in dBm or dBW;

GT = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.2
For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

6.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTER-NACK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
TEMPERATURE	TEMPERATURE	HTC-1	EC-HY-01	04/18/2019	04/17/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Radio Communication Analyer	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020

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6.5. Measurement Result

RF Conducted Output Power WCDMA MODE:

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

Results:

WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	23.74	-0.02	21.57	23.72	33.00	-9.28
	1880.0	9400	23.88	-0.02	21.71	23.86	33.00	-9.14
	1907.6	9538	23.91	-0.02	21.74	23.89	33.00	-9.11
HSDPA	1852.4	9262	23.87	-0.02	21.70	23.85	33.00	-9.15
	1880.0	9400	24.05	-0.02	21.88	24.03	33.00	-8.97
	1907.6	9538	24.12	-0.02	21.95	24.10	33.00	-8.90
HSUPA	1852.4	9262	23.87	-0.02	21.70	23.85	33.00	-9.15
	1880.0	9400	24.05	-0.02	21.88	24.03	33.00	-8.97
	1907.6	9538	24.05	-0.02	21.88	24.03	33.00	-8.97

WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.99	-0.21	21.63	23.78	30.00	-6.22
	1732.6	1413	23.95	-0.21	21.59	23.74	30.00	-6.26
	1752.6	1513	23.93	-0.21	21.57	23.72	30.00	-6.28
HSDPA	1712.4	1312	23.98	-0.21	21.62	23.77	30.00	-6.23
	1732.6	1413	24.06	-0.21	21.70	23.85	30.00	-6.15
	1752.6	1513	23.98	-0.21	21.62	23.77	30.00	-6.23
HSUPA	1712.4	1312	24.02	-0.21	21.66	23.81	30.00	-6.19
	1732.6	1413	24.00	-0.21	21.64	23.79	30.00	-6.21
	1752.6	1513	23.97	-0.21	21.61	23.76	30.00	-6.24

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WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.86	-3.50	18.21	20.36	38.50	-18.14
	836.6	4183	23.95	-3.50	18.30	20.45	38.50	-18.05
	846.6	4233	23.83	-3.50	18.18	20.33	38.50	-18.17
HSDPA	826.4	4132	23.85	-3.50	18.20	20.35	38.50	-18.15
	836.6	4183	23.77	-3.50	18.12	20.27	38.50	-18.23
	846.6	4233	23.78	-3.50	18.13	20.28	38.50	-18.22
HSUPA	826.4	4132	23.97	-3.50	18.32	20.47	38.50	-18.03
	836.6	4183	23.90	-3.50	18.25	20.40	38.50	-18.10
	846.6	4233	23.86	-3.50	18.21	20.36	38.50	-18.14

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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	18.55	18.71	18.74
	2	17.59	18.75	17.66
	3	17.03	17.73	17.07
	4	16.87	17.09	16.92

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	19.22	19.18	19.30
	2	18.14	18.13	18.21
	3	17.72	17.57	17.78
	4	17.51	17.30	17.41

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	23.32	23.28	23.35
	2	22.85	22.79	22.72
	3	22.35	22.16	22.15
	4	21.98	22.00	21.72

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	18.66	16.97	18.68
	2	17.11	18.77	17.17
	3	17.50	17.26	17.69
	4	16.95	17.71	17.11
	5	18.48	17.23	18.58

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	19.32	19.28	19.28
	2	18.25	18.07	18.25
	3	17.68	17.57	17.82
	4	18.24	18.04	18.32
	5	19.21	19.26	19.27

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	23.72	23.69	23.68
	2	22.86	22.80	22.74
	3	22.34	22.16	22.05
	4	22.82	22.84	22.72
	5	23.67	23.70	23.56

WCDMA/HSDPA/HSUPA band II, IV, V

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

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LTE Result:

Antenna gain (dBi) -0.02

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	18.80	18.78	33	-14.22
				1	5	18.72	18.70	33	-14.3
				3	2	18.68	18.66	33	-14.34
				6	0	18.76	18.74	33	-14.26
	18900	1880	QPSK	1	0	18.64	18.62	33	-14.38
				1	5	18.66	18.64	33	-14.36
				3	2	18.70	18.68	33	-14.32
				6	0	18.94	18.92	33	-14.08
	19193	1909.3	QPSK	1	0	18.90	18.88	33	-14.12
				1	5	18.68	18.66	33	-14.34
				3	2	18.70	18.68	33	-14.32
				6	0	18.80	18.78	33	-14.22
	18607	1850.7	16QAM	1	0	18.86	18.84	33	-14.16
				1	5	18.92	18.90	33	-14.1
				3	2	18.94	18.92	33	-14.08
				6	0	18.82	18.80	33	-14.2
	18900	1880	16QAM	1	0	18.84	18.82	33	-14.18
				1	5	18.88	18.86	33	-14.14
				3	2	18.96	18.94	33	-14.06
				6	0	18.66	18.64	33	-14.36
	19193	1909.3	16QAM	1	0	18.86	18.84	33	-14.16
				1	5	18.80	18.78	33	-14.22
				3	2	18.80	18.78	33	-14.22
				6	0	18.68	18.66	33	-14.34
	18607	1850.7	64QAM	1	0	18.94	18.92	33	-14.08
				1	5	18.66	18.64	33	-14.36
				3	2	18.94	18.92	33	-14.08
				6	0	18.70	18.68	33	-14.32
	18900	1880	64QAM	1	0	18.90	18.88	33	-14.12
				1	5	18.90	18.88	33	-14.12
				3	2	18.94	18.92	33	-14.08
				6	0	18.74	18.72	33	-14.28
	19193	1909.3	64QAM	1	0	18.62	18.60	33	-14.4
				1	5	18.68	18.66	33	-14.34
				3	2	18.90	18.88	33	-14.12
				6	0	18.92	18.90	33	-14.1

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Antenna gain (dBi) -0.02

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	18.70	18.68	33	-14.32
				1	14	18.76	18.74	33	-14.26
				8	4	18.88	18.86	33	-14.14
				15	0	18.68	18.66	33	-14.34
	18900	1880	QPSK	1	0	18.92	18.90	33	-14.1
				1	14	18.64	18.62	33	-14.38
				8	4	18.94	18.92	33	-14.08
				15	0	18.64	18.62	33	-14.38
	19185	1908.5	QPSK	1	0	18.84	18.82	33	-14.18
				1	14	18.84	18.82	33	-14.18
				8	4	18.94	18.92	33	-14.08
				15	0	18.70	18.68	33	-14.32
	18615	1851.5	16QAM	1	0	18.76	18.74	33	-14.26
				1	14	18.72	18.70	33	-14.3
				8	4	18.88	18.86	33	-14.14
				15	0	18.70	18.68	33	-14.32
	18900	1880	16QAM	1	0	18.72	18.70	33	-14.3
				1	14	18.74	18.72	33	-14.28
				8	4	18.78	18.76	33	-14.24
				15	0	18.72	18.70	33	-14.3
	19185	1908.5	16QAM	1	0	18.90	18.88	33	-14.12
				1	14	18.70	18.68	33	-14.32
				8	4	18.92	18.90	33	-14.1
				15	0	18.68	18.66	33	-14.34
	18615	1851.5	64QAM	1	0	18.82	18.80	33	-14.2
				1	14	18.92	18.90	33	-14.1
				8	4	18.66	18.64	33	-14.36
				15	0	18.64	18.62	33	-14.38
	18900	1880	64QAM	1	0	18.66	18.64	33	-14.36
				1	14	18.72	18.70	33	-14.3
				8	4	18.77	18.75	33	-14.25
				15	0	18.82	18.80	33	-14.2
	19185	1908.5	64QAM	1	0	18.84	18.82	33	-14.18
				1	14	18.76	18.74	33	-14.26
				8	4	18.86	18.84	33	-14.16
				15	0	18.68	18.66	33	-14.34

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Antenna gain (dBi) -0.02

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	18.84	18.82	33	-14.18
				1	24	18.72	18.70	33	-14.3
				12	6	18.68	18.66	33	-14.34
				25	0	18.74	18.72	33	-14.28
	18900	1880	QPSK	1	0	18.68	18.66	33	-14.34
				1	24	18.66	18.64	33	-14.36
				12	6	18.96	18.94	33	-14.06
				25	0	18.62	18.60	33	-14.4
	19175	1907.5	QPSK	1	0	18.84	18.82	33	-14.18
				1	24	18.70	18.68	33	-14.32
				12	6	18.96	18.94	33	-14.06
				25	0	18.62	18.60	33	-14.4
	18625	1852.5	16QAM	1	0	18.92	18.90	33	-14.1
				1	24	18.78	18.76	33	-14.24
				12	6	18.94	18.92	33	-14.08
				25	0	18.90	18.88	33	-14.12
	18900	1880	16QAM	1	0	18.84	18.82	33	-14.18
				1	24	18.62	18.60	33	-14.4
				12	6	18.76	18.74	33	-14.26
				25	0	18.86	18.84	33	-14.16
	19175	1907.5	16QAM	1	0	18.86	18.84	33	-14.16
				1	24	18.96	18.94	33	-14.06
				12	6	18.70	18.68	33	-14.32
				25	0	18.91	18.89	33	-14.11
	18625	1852.5	64QAM	1	0	18.92	18.90	33	-14.1
				1	24	18.90	18.88	33	-14.12
				12	6	18.90	18.88	33	-14.12
				25	0	18.86	18.84	33	-14.16
	18900	1880	64QAM	1	0	18.88	18.86	33	-14.14
				1	24	18.88	18.86	33	-14.14
				12	6	18.92	18.90	33	-14.1
				25	0	18.64	18.62	33	-14.38
	19175	1907.5	64QAM	1	0	18.76	18.74	33	-14.26
				1	24	18.78	18.76	33	-14.24
				12	6	18.88	18.86	33	-14.14
				25	0	18.91	18.89	33	-14.11

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Antenna gain (dBi) -0.02

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	18.70	18.68	33	-14.32
				1	49	18.86	18.84	33	-14.16
				25	12	18.72	18.70	33	-14.3
				50	0	18.64	18.62	33	-14.38
	18900	1880	QPSK	1	0	18.90	18.88	33	-14.12
				1	49	18.84	18.82	33	-14.18
				25	12	18.92	18.90	33	-14.1
				50	0	18.96	18.94	33	-14.06
	19150	1905	QPSK	1	0	18.66	18.64	33	-14.36
				1	49	18.80	18.78	33	-14.22
				25	12	18.92	18.90	33	-14.1
				50	0	18.74	18.72	33	-14.28
	18650	1855	16QAM	1	0	18.88	18.86	33	-14.14
				1	49	18.66	18.64	33	-14.36
				25	12	18.78	18.76	33	-14.24
				50	0	18.62	18.60	33	-14.4
	18900	1880	16QAM	1	0	18.66	18.64	33	-14.36
				1	49	18.82	18.80	33	-14.2
				25	12	18.74	18.72	33	-14.28
				50	0	18.90	18.88	33	-14.12
	19150	1905	16QAM	1	0	18.76	18.74	33	-14.26
				1	49	18.94	18.92	33	-14.08
				25	12	18.82	18.80	33	-14.2
				50	0	18.82	18.80	33	-14.2
	18650	1855	64QAM	1	0	18.96	18.94	33	-14.06
				1	49	18.74	18.72	33	-14.28
				25	12	18.72	18.70	33	-14.3
				50	0	18.86	18.84	33	-14.16
	18900	1880	64QAM	1	0	18.86	18.84	33	-14.16
				1	49	18.66	18.64	33	-14.36
				25	12	18.74	18.72	33	-14.28
				50	0	18.84	18.82	33	-14.18
	19150	1905	64QAM	1	0	18.92	18.90	33	-14.1
				1	49	18.70	18.68	33	-14.32
				25	12	18.62	18.60	33	-14.4
				50	0	18.74	18.72	33	-14.28

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Antenna gain (dBi) -0.02

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	18.68	18.66	33	-14.34			
				1	74	18.76	18.74	33	-14.26			
				36	18	18.76	18.74	33	-14.26			
				75	0	18.80	18.78	33	-14.22			
	18900	1880	QPSK	1	0	18.90	18.88	33	-14.12			
				1	74	18.84	18.82	33	-14.18			
				36	18	18.66	18.64	33	-14.36			
				75	0	18.93	18.91	33	-14.09			
				19125	1902.5	QPSK	1	0	18.73	18.71	33	-14.29
							1	74	18.78	18.76	33	-14.24
	36	18	18.66				18.64	33	-14.36			
	75	0	18.74				18.72	33	-14.28			
	18675	1857.5	16QAM	1	0	18.88	18.86	33	-14.14			
				1	74	18.94	18.92	33	-14.08			
				36	18	18.74	18.72	33	-14.28			
				75	0	18.85	18.83	33	-14.17			
	18900	1880	16QAM	1	0	18.80	18.78	33	-14.22			
				1	74	18.82	18.80	33	-14.2			
				36	18	18.64	18.62	33	-14.38			
				75	0	18.84	18.82	33	-14.18			
	19125	1902.5	16QAM	1	0	18.62	18.60	33	-14.4			
				1	74	18.68	18.66	33	-14.34			
				36	18	18.84	18.82	33	-14.18			
				75	0	18.82	18.80	33	-14.2			
	18675	1857.5	64QAM	1	0	18.68	18.66	33	-14.34			
				1	74	18.78	18.76	33	-14.24			
				36	18	18.90	18.88	33	-14.12			
				75	0	18.84	18.82	33	-14.18			
	18900	1880	64QAM	1	0	18.76	18.74	33	-14.26			
				1	74	18.72	18.70	33	-14.3			
				36	18	18.64	18.62	33	-14.38			
				75	0	18.78	18.76	33	-14.24			
	19125	1902.5	64QAM	1	0	18.67	18.65	33	-14.35			
				1	74	18.80	18.78	33	-14.22			
				36	18	18.84	18.82	33	-14.18			
				75	0	18.90	18.88	33	-14.12			

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Antenna gain (dBi) -0.02

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	18.99	18.97	33	-14.03
				1	99	18.82	18.80	33	-14.2
				50	25	18.97	18.95	33	-14.05
				100	0	18.85	18.83	33	-14.17
	18900	1880	QPSK	1	0	18.88	18.86	33	-14.14
				1	99	18.84	18.82	33	-14.18
				50	25	18.84	18.82	33	-14.18
				100	0	18.81	18.79	33	-14.21
	19100	1900	QPSK	1	0	18.92	18.90	33	-14.1
				1	99	18.91	18.89	33	-14.11
				50	25	18.84	18.82	33	-14.18
				100	0	18.76	18.74	33	-14.26
	18700	1860	16QAM	1	0	18.64	18.62	33	-14.38
				1	99	18.93	18.91	33	-14.09
				50	25	18.62	18.60	33	-14.4
				100	0	18.90	18.88	33	-14.12
	18900	1880	16QAM	1	0	18.94	18.92	33	-14.08
				1	99	18.92	18.90	33	-14.1
				50	25	18.88	18.86	33	-14.14
				100	0	18.84	18.82	33	-14.18
	19100	1900	16QAM	1	0	18.64	18.62	33	-14.38
				1	99	18.74	18.72	33	-14.28
				50	25	18.64	18.62	33	-14.38
				100	0	18.92	18.90	33	-14.1
	18700	1860	64QAM	1	0	18.92	18.90	33	-14.1
				1	99	18.64	18.62	33	-14.38
				50	25	18.68	18.66	33	-14.34
				100	0	18.74	18.72	33	-14.28
	18900	1880	64QAM	1	0	18.64	18.62	33	-14.38
				1	99	18.88	18.86	33	-14.14
				50	25	18.68	18.66	33	-14.34
				100	0	18.96	18.94	33	-14.06
	19100	1900	64QAM	1	0	18.91	18.89	33	-14.11
				1	99	18.94	18.92	33	-14.08
				50	25	18.83	18.81	33	-14.19
				100	0	18.78	18.76	33	-14.24

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Antenna gain (dBi) -0.21

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	19.41	19.20	30	-10.8
				1	5	19.29	19.08	30	-10.92
				3	2	19.43	19.22	30	-10.78
				6	0	19.35	19.14	30	-10.86
	20175	1732.5	QPSK	1	0	19.43	19.22	30	-10.78
				1	5	19.27	19.06	30	-10.94
				3	2	19.36	19.15	30	-10.85
				6	0	19.39	19.18	30	-10.82
	20393	1754.3	QPSK	1	0	19.40	19.19	30	-10.81
				1	5	19.45	19.24	30	-10.76
				3	2	19.36	19.15	30	-10.85
				6	0	19.46	19.25	30	-10.75
	19957	1710.7	16QAM	1	0	19.44	19.23	30	-10.77
				1	5	19.31	19.10	30	-10.9
				3	2	19.35	19.14	30	-10.86
				6	0	19.38	19.17	30	-10.83
	20175	1732.5	16QAM	1	0	19.37	19.16	30	-10.84
				1	5	19.43	19.22	30	-10.78
				3	2	19.42	19.21	30	-10.79
				6	0	19.28	19.07	30	-10.93
	20393	1754.3	16QAM	1	0	19.36	19.15	30	-10.85
				1	5	19.33	19.12	30	-10.88
				3	2	19.30	19.09	30	-10.91
				6	0	19.32	19.11	30	-10.89
	19957	1710.7	64QAM	1	0	19.38	19.17	30	-10.83
				1	5	19.41	19.20	30	-10.8
				3	2	19.29	19.08	30	-10.92
				6	0	19.46	19.25	30	-10.75
	20175	1732.5	64QAM	1	0	19.36	19.15	30	-10.85
				1	5	19.32	19.11	30	-10.89
				3	2	19.38	19.17	30	-10.83
				6	0	19.27	19.06	30	-10.94
	20393	1754.3	64QAM	1	0	19.31	19.10	30	-10.9
				1	5	19.27	19.06	30	-10.94
				3	2	19.42	19.21	30	-10.79
				6	0	19.36	19.15	30	-10.85

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Antenna gain (dBi) -0.21

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	18.69	18.48	30	-11.52
				1	14	18.71	18.50	30	-11.5
				8	4	18.43	18.22	30	-11.78
				15	0	18.73	18.52	30	-11.48
	20175	1732.5	QPSK	1	0	18.89	18.68	30	-11.32
				1	14	18.80	18.59	30	-11.41
				8	4	18.34	18.13	30	-11.87
				15	0	18.70	18.49	30	-11.51
	20385	1753.5	QPSK	1	0	18.79	18.58	30	-11.42
				1	14	18.56	18.35	30	-11.65
				8	4	18.34	18.13	30	-11.87
				15	0	18.52	18.31	30	-11.69
	19965	1711.5	16QAM	1	0	18.66	18.45	30	-11.55
				1	14	18.56	18.35	30	-11.65
				8	4	18.53	18.32	30	-11.68
				15	0	18.49	18.28	30	-11.72
	20175	1732.5	16QAM	1	0	18.57	18.36	30	-11.64
				1	14	18.50	18.29	30	-11.71
				8	4	18.40	18.19	30	-11.81
				15	0	18.35	18.14	30	-11.86
	20385	1753.5	16QAM	1	0	18.87	18.66	30	-11.34
				1	14	18.53	18.32	30	-11.68
				8	4	18.47	18.26	30	-11.74
				15	0	18.52	18.31	30	-11.69
	19965	1711.5	64QAM	1	0	18.71	18.50	30	-11.5
				1	14	18.62	18.41	30	-11.59
				8	4	18.52	18.31	30	-11.69
				15	0	18.55	18.34	30	-11.66
	20175	1732.5	64QAM	1	0	18.48	18.27	30	-11.73
				1	14	18.62	18.41	30	-11.59
				8	4	18.52	18.31	30	-11.69
				15	0	18.41	18.20	30	-11.8
	20385	1753.5	64QAM	1	0	18.63	18.42	30	-11.58
				1	14	18.60	18.39	30	-11.61
				8	4	18.61	18.40	30	-11.6
				15	0	18.43	18.22	30	-11.78

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Antenna gain (dBi) -0.21

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	19.44	19.23	30	-10.77
				1	24	19.43	19.22	30	-10.78
				12	6	19.36	19.15	30	-10.85
				25	0	19.26	19.05	30	-10.95
	20175	1732.5	QPSK	1	0	19.34	19.13	30	-10.87
				1	24	19.31	19.10	30	-10.9
				12	6	19.30	19.09	30	-10.91
				25	0	19.33	19.12	30	-10.88
	20375	1752.5	QPSK	1	0	19.38	19.17	30	-10.83
				1	24	19.27	19.06	30	-10.94
				12	6	19.30	19.09	30	-10.91
				25	0	19.25	19.04	30	-10.96
	19975	1712.5	16QAM	1	0	19.40	19.19	30	-10.81
				1	24	19.41	19.20	30	-10.8
				12	6	19.41	19.20	30	-10.8
				25	0	19.44	19.23	30	-10.77
	20175	1732.5	16QAM	1	0	19.29	19.08	30	-10.92
				1	24	19.34	19.13	30	-10.87
				12	6	19.34	19.13	30	-10.87
				25	0	19.37	19.16	30	-10.84
	20375	1752.5	16QAM	1	0	19.32	19.11	30	-10.89
				1	24	19.44	19.23	30	-10.77
				12	6	19.39	19.18	30	-10.82
				25	0	19.32	19.11	30	-10.89
	19975	1712.5	64QAM	1	0	19.29	19.08	30	-10.92
				1	24	19.36	19.15	30	-10.85
				12	6	19.37	19.16	30	-10.84
				25	0	19.27	19.06	30	-10.94
	20175	1732.5	64QAM	1	0	19.35	19.14	30	-10.86
				1	24	19.36	19.15	30	-10.85
				12	6	19.34	19.13	30	-10.87
				25	0	19.44	19.23	30	-10.77
20375	1752.5	64QAM	1	0	19.39	19.18	30	-10.82	
			1	24	19.30	19.09	30	-10.91	
			12	6	19.35	19.14	30	-10.86	
			25	0	19.29	19.08	30	-10.92	

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Antenna gain (dBi) -0.21

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	19.37	19.16	30	-10.84
				1	49	19.30	19.09	30	-10.91
				25	12	19.40	19.19	30	-10.81
				50	0	19.31	19.10	30	-10.9
	20175	1732.5	QPSK	1	0	19.41	19.20	30	-10.8
				1	49	19.41	19.20	30	-10.8
				25	12	19.43	19.22	30	-10.78
				50	0	19.36	19.15	30	-10.85
	20375	1750	QPSK	1	0	19.43	19.22	30	-10.78
				1	49	19.39	19.18	30	-10.82
				25	12	19.43	19.22	30	-10.78
				50	0	19.37	19.16	30	-10.84
	20000	1715	16QAM	1	0	19.43	19.22	30	-10.78
				1	49	19.41	19.20	30	-10.8
				25	12	19.43	19.22	30	-10.78
				50	0	19.42	19.21	30	-10.79
	20175	1732.5	16QAM	1	0	19.44	19.23	30	-10.77
				1	49	19.38	19.17	30	-10.83
				25	12	19.27	19.06	30	-10.94
				50	0	19.32	19.11	30	-10.89
	20375	1750	16QAM	1	0	19.42	19.21	30	-10.79
				1	49	19.35	19.14	30	-10.86
				25	12	19.38	19.17	30	-10.83
				50	0	19.33	19.12	30	-10.88
	20000	1715	64QAM	1	0	19.36	19.15	30	-10.85
				1	49	19.25	19.04	30	-10.96
				25	12	19.42	19.21	30	-10.79
				50	0	19.26	19.05	30	-10.95
	20175	1732.5	64QAM	1	0	19.33	19.12	30	-10.88
				1	49	19.27	19.06	30	-10.94
				25	12	19.34	19.13	30	-10.87
				50	0	19.40	19.19	30	-10.81
20375	1750	64QAM	1	0	19.26	19.05	30	-10.95	
			1	49	19.43	19.22	30	-10.78	
			25	12	19.37	19.16	30	-10.84	
			50	0	19.25	19.04	30	-10.96	

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Antenna gain (dBi) -0.21

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	19.33	19.12	30	-10.88
				1	74	19.27	19.06	30	-10.94
				36	18	19.42	19.21	30	-10.79
				75	0	19.31	19.10	30	-10.9
	20175	1732.5	QPSK	1	0	19.37	19.16	30	-10.84
				1	74	19.26	19.05	30	-10.95
				36	18	19.39	19.18	30	-10.82
				75	0	19.30	19.09	30	-10.91
	20325	1747.5	QPSK	1	0	19.25	19.04	30	-10.96
				1	74	19.33	19.12	30	-10.88
				36	18	19.39	19.18	30	-10.82
				75	0	19.32	19.11	30	-10.89
	20025	1717.5	16QAM	1	0	19.44	19.23	30	-10.77
				1	74	19.34	19.13	30	-10.87
				36	18	19.39	19.18	30	-10.82
				75	0	19.25	19.04	30	-10.96
	20175	1732.5	16QAM	1	0	19.39	19.18	30	-10.82
				1	74	19.36	19.15	30	-10.85
				36	18	19.37	19.16	30	-10.84
				75	0	19.36	19.15	30	-10.85
	20325	1747.5	16QAM	1	0	19.42	19.21	30	-10.79
				1	74	19.41	19.20	30	-10.8
				36	18	19.40	19.19	30	-10.81
				75	0	19.31	19.10	30	-10.9
	20025	1717.5	64QAM	1	0	19.38	19.17	30	-10.83
				1	74	19.36	19.15	30	-10.85
				36	18	19.32	19.11	30	-10.89
				75	0	19.44	19.23	30	-10.77
	20175	1732.5	64QAM	1	0	19.43	19.22	30	-10.78
				1	74	19.29	19.08	30	-10.92
				36	18	19.32	19.11	30	-10.89
				75	0	19.34	19.13	30	-10.87
	20325	1747.5	64QAM	1	0	19.31	19.10	30	-10.9
				1	74	19.28	19.07	30	-10.93
				36	18	19.28	19.07	30	-10.93
				75	0	19.36	19.15	30	-10.85

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Antenna gain (dBi) -0.21

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	19.44	19.23	30	-10.77
				1	99	19.41	19.20	30	-10.8
				50	25	19.34	19.13	30	-10.87
				100	0	19.36	19.15	30	-10.85
	20175	1732.5	QPSK	1	0	19.49	19.28	30	-10.72
				1	99	19.38	19.17	30	-10.83
				50	25	19.43	19.22	30	-10.78
				100	0	19.33	19.12	30	-10.88
	20300	1745	QPSK	1	0	19.47	19.26	30	-10.74
				1	99	19.40	19.19	30	-10.81
				50	25	19.43	19.22	30	-10.78
				100	0	19.43	19.22	30	-10.78
	20050	1720	16QAM	1	0	19.27	19.06	30	-10.94
				1	99	19.28	19.07	30	-10.93
				50	25	19.35	19.14	30	-10.86
				100	0	19.29	19.08	30	-10.92
	20175	1732.5	16QAM	1	0	19.41	19.20	30	-10.8
				1	99	19.33	19.12	30	-10.88
				50	25	19.35	19.14	30	-10.86
				100	0	19.41	19.20	30	-10.8
	20300	1745	16QAM	1	0	19.39	19.18	30	-10.82
				1	99	19.32	19.11	30	-10.89
				50	25	19.38	19.17	30	-10.83
				100	0	19.40	19.19	30	-10.81
	20050	1720	64QAM	1	0	19.27	19.06	30	-10.94
				1	99	19.40	19.19	30	-10.81
				50	25	19.36	19.15	30	-10.85
				100	0	19.31	19.10	30	-10.9
	20175	1732.5	64QAM	1	0	19.27	19.06	30	-10.94
				1	99	19.44	19.23	30	-10.77
				50	25	19.27	19.06	30	-10.94
				100	0	19.41	19.20	30	-10.8
	20300	1745	64QAM	1	0	19.29	19.08	30	-10.92
				1	99	19.37	19.16	30	-10.84
				50	25	19.40	19.19	30	-10.81
				100	0	19.40	19.19	30	-10.81

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Antenna gain (dBi) -3

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	23.29	18.14	20.29	38.45	-18.16
				1	5	23.39	18.24	20.39	38.45	-18.06
				3	2	23.36	18.21	20.36	38.45	-18.09
				6	0	23.32	18.17	20.32	38.45	-18.13
	20525	836.5	QPSK	1	0	23.39	18.24	20.39	38.45	-18.06
				1	5	23.36	18.21	20.36	38.45	-18.09
				3	2	23.29	18.14	20.29	38.45	-18.16
				6	0	23.34	18.19	20.34	38.45	-18.11
	20643	848.3	QPSK	1	0	23.24	18.09	20.24	38.45	-18.21
				1	5	23.26	18.11	20.26	38.45	-18.19
				3	2	23.29	18.14	20.29	38.45	-18.16
				6	0	23.33	18.18	20.33	38.45	-18.12
	20407	824.7	16QAM	1	0	23.35	18.20	20.35	38.45	-18.1
				1	5	23.37	18.22	20.37	38.45	-18.08
				3	2	23.34	18.19	20.34	38.45	-18.11
				6	0	23.37	18.22	20.37	38.45	-18.08
	20525	836.5	16QAM	1	0	23.27	18.12	20.27	38.45	-18.18
				1	5	23.38	18.23	20.38	38.45	-18.07
				3	2	23.39	18.24	20.39	38.45	-18.06
				6	0	23.25	18.10	20.25	38.45	-18.2
	20643	848.3	16QAM	1	0	23.42	18.27	20.42	38.45	-18.03
				1	5	23.38	18.23	20.38	38.45	-18.07
				3	2	23.37	18.22	20.37	38.45	-18.08
				6	0	23.27	18.12	20.27	38.45	-18.18
	20407	824.7	64QAM	1	0	23.28	18.13	20.28	38.45	-18.17
				1	5	23.39	18.24	20.39	38.45	-18.06
				3	2	23.33	18.18	20.33	38.45	-18.12
				6	0	23.34	18.19	20.34	38.45	-18.11
	20525	836.5	64QAM	1	0	23.41	18.26	20.41	38.45	-18.04
				1	5	23.26	18.11	20.26	38.45	-18.19
				3	2	23.37	18.22	20.37	38.45	-18.08
				6	0	23.30	18.15	20.30	38.45	-18.15
	20643	848.3	64QAM	1	0	23.26	18.11	20.26	38.45	-18.19
				1	5	23.23	18.08	20.23	38.45	-18.22
				3	2	23.32	18.17	20.32	38.45	-18.13
				6	0	23.34	18.19	20.34	38.45	-18.11

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Antenna gain (dBi) -3

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	23.38	18.23	20.38	38.45	-18.07
				1	14	23.28	18.13	20.28	38.45	-18.17
				8	4	23.39	18.24	20.39	38.45	-18.06
				15	0	23.35	18.20	20.35	38.45	-18.1
	20525	836.5	QPSK	1	0	23.34	18.19	20.34	38.45	-18.11
				1	14	23.23	18.08	20.23	38.45	-18.22
				8	4	23.37	18.22	20.37	38.45	-18.08
				15	0	23.41	18.26	20.41	38.45	-18.04
	20635	847.5	QPSK	1	0	23.37	18.22	20.37	38.45	-18.08
				1	14	23.30	18.15	20.30	38.45	-18.15
				8	4	23.37	18.22	20.37	38.45	-18.08
				15	0	23.38	18.23	20.38	38.45	-18.07
	20415	825.5	16QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	14	23.25	18.10	20.25	38.45	-18.2
				8	4	23.27	18.12	20.27	38.45	-18.18
				15	0	23.40	18.25	20.40	38.45	-18.05
	20525	836.5	16QAM	1	0	23.39	18.24	20.39	38.45	-18.06
				1	14	23.31	18.16	20.31	38.45	-18.14
				8	4	23.28	18.13	20.28	38.45	-18.17
				15	0	23.34	18.19	20.34	38.45	-18.11
	20635	847.5	16QAM	1	0	23.29	18.14	20.29	38.45	-18.16
				1	14	23.26	18.11	20.26	38.45	-18.19
				8	4	23.30	18.15	20.30	38.45	-18.15
				15	0	23.38	18.23	20.38	38.45	-18.07
	20415	825.5	64QAM	1	0	23.30	18.15	20.30	38.45	-18.15
				1	14	23.34	18.19	20.34	38.45	-18.11
				8	4	23.26	18.11	20.26	38.45	-18.19
				15	0	23.31	18.16	20.31	38.45	-18.14
	20525	836.5	64QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	14	23.36	18.21	20.36	38.45	-18.09
				8	4	23.40	18.25	20.40	38.45	-18.05
				15	0	23.37	18.22	20.37	38.45	-18.08
	20635	847.5	64QAM	1	0	23.36	18.21	20.36	38.45	-18.09
				1	14	23.39	18.24	20.39	38.45	-18.06
				8	4	23.34	18.19	20.34	38.45	-18.11
				15	0	23.38	18.23	20.38	38.45	-18.07

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Antenna gain (dBi) -3

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	23.37	18.22	20.37	38.45	-18.08
				1	24	23.38	18.23	20.38	38.45	-18.07
				12	6	23.43	18.28	20.43	38.45	-18.02
				25	0	23.39	18.24	20.39	38.45	-18.06
	20525	836.5	QPSK	1	0	23.37	18.22	20.37	38.45	-18.08
				1	24	23.43	18.28	20.43	38.45	-18.02
				12	6	23.25	18.10	20.25	38.45	-18.2
				25	0	23.41	18.26	20.41	38.45	-18.04
	20625	846.5	QPSK	1	0	23.25	18.10	20.25	38.45	-18.2
				1	24	23.40	18.25	20.40	38.45	-18.05
				12	6	23.25	18.10	20.25	38.45	-18.2
				25	0	23.29	18.14	20.29	38.45	-18.16
	20425	826.5	16QAM	1	0	23.32	18.17	20.32	38.45	-18.13
				1	24	23.30	18.15	20.30	38.45	-18.15
				12	6	23.38	18.23	20.38	38.45	-18.07
				25	0	23.40	18.25	20.40	38.45	-18.05
	20525	836.5	16QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	24	23.42	18.27	20.42	38.45	-18.03
				12	6	23.29	18.14	20.29	38.45	-18.16
				25	0	23.36	18.21	20.36	38.45	-18.09
	20625	846.5	16QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	24	23.24	18.09	20.24	38.45	-18.21
				12	6	23.38	18.23	20.38	38.45	-18.07
				25	0	23.34	18.19	20.34	38.45	-18.11
	20425	826.5	64QAM	1	0	23.42	18.27	20.42	38.45	-18.03
				1	24	23.34	18.19	20.34	38.45	-18.11
				12	6	23.35	18.20	20.35	38.45	-18.1
				25	0	23.43	18.28	20.43	38.45	-18.02
	20525	836.5	64QAM	1	0	23.40	18.25	20.40	38.45	-18.05
				1	24	23.31	18.16	20.31	38.45	-18.14
				12	6	23.32	18.17	20.32	38.45	-18.13
				25	0	23.35	18.20	20.35	38.45	-18.1
	20625	846.5	64QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	24	23.25	18.10	20.25	38.45	-18.2
				12	6	23.38	18.23	20.38	38.45	-18.07
				25	0	23.26	18.11	20.26	38.45	-18.19

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Antenna gain (dBi) -3

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	23.37	18.22	20.37	38.45	-18.08
				1	49	23.31	18.16	20.31	38.45	-18.14
				25	12	23.40	18.25	20.40	38.45	-18.05
				50	0	23.30	18.15	20.30	38.45	-18.15
	20525	836.5	QPSK	1	0	23.38	18.23	20.38	38.45	-18.07
				1	49	23.28	18.13	20.28	38.45	-18.17
				25	12	23.30	18.15	20.30	38.45	-18.15
				50	0	23.32	18.17	20.32	38.45	-18.13
	20600	844	QPSK	1	0	23.52	18.37	20.52	38.45	-17.93
				1	49	23.43	18.28	20.43	38.45	-18.02
				25	12	23.30	18.15	20.30	38.45	-18.15
				50	0	23.22	18.07	20.22	38.45	-18.23
	20450	829	16QAM	1	0	23.34	18.19	20.34	38.45	-18.11
				1	49	23.30	18.15	20.30	38.45	-18.15
				25	12	23.30	18.15	20.30	38.45	-18.15
				50	0	23.26	18.11	20.26	38.45	-18.19
	20525	836.5	16QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	49	23.39	18.24	20.39	38.45	-18.06
				25	12	23.28	18.13	20.28	38.45	-18.17
				50	0	23.31	18.16	20.31	38.45	-18.14
	20600	844	16QAM	1	0	23.41	18.26	20.41	38.45	-18.04
				1	49	23.29	18.14	20.29	38.45	-18.16
				25	12	23.29	18.14	20.29	38.45	-18.16
				50	0	23.39	18.24	20.39	38.45	-18.06
	20450	829	64QAM	1	0	23.36	18.21	20.36	38.45	-18.09
				1	49	23.43	18.28	20.43	38.45	-18.02
				25	12	23.35	18.20	20.35	38.45	-18.1
				50	0	23.40	18.25	20.40	38.45	-18.05
	20525	836.5	64QAM	1	0	23.28	18.13	20.28	38.45	-18.17
				1	49	23.31	18.16	20.31	38.45	-18.14
				25	12	23.38	18.23	20.38	38.45	-18.07
				50	0	23.35	18.20	20.35	38.45	-18.1
	20600	844	64QAM	1	0	23.43	18.28	20.43	38.45	-18.02
				1	49	23.31	18.16	20.31	38.45	-18.14
				25	12	23.42	18.27	20.42	38.45	-18.03
				50	0	23.27	18.12	20.27	38.45	-18.18

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Antenna gain (dBi) -0.19

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	15.93	15.74	33	-17.26
				1	24	15.81	15.62	33	-17.38
				12	6	15.93	15.74	33	-17.26
				25	0	15.95	15.76	33	-17.24
	21100	2535	QPSK	1	0	15.96	15.77	33	-17.23
				1	24	15.90	15.71	33	-17.29
				12	6	15.87	15.68	33	-17.32
				25	0	15.86	15.67	33	-17.33
	21375	2567.5	QPSK	1	0	15.96	15.77	33	-17.23
				1	24	15.88	15.69	33	-17.31
				12	6	15.87	15.68	33	-17.32
				25	0	15.80	15.61	33	-17.39
	20775	2502.5	16QAM	1	0	15.78	15.59	33	-17.41
				1	24	15.90	15.71	33	-17.29
				12	6	15.93	15.74	33	-17.26
				25	0	15.77	15.58	33	-17.42
	21100	2535	16QAM	1	0	15.83	15.64	33	-17.36
				1	24	15.83	15.64	33	-17.36
				12	6	15.80	15.61	33	-17.39
				25	0	15.79	15.60	33	-17.4
	21375	2567.5	16QAM	1	0	15.90	15.71	33	-17.29
				1	24	15.94	15.75	33	-17.25
				12	6	15.91	15.72	33	-17.28
				25	0	15.90	15.71	33	-17.29
	20775	2502.5	64QAM	1	0	15.86	15.67	33	-17.33
				1	24	15.81	15.62	33	-17.38
				12	6	15.88	15.69	33	-17.31
				25	0	15.78	15.59	33	-17.41
	21100	2535	64QAM	1	0	15.87	15.68	33	-17.32
				1	24	15.79	15.60	33	-17.4
				12	6	15.93	15.74	33	-17.26
				25	0	15.78	15.59	33	-17.41
	21375	2567.5	64QAM	1	0	15.91	15.72	33	-17.28
				1	24	15.89	15.70	33	-17.3
				12	6	15.79	15.60	33	-17.4
				25	0	15.82	15.63	33	-17.37

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Antenna gain (dBi) -0.19

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	15.85	15.66	33	-17.34
				1	49	15.78	15.59	33	-17.41
				25	12	15.89	15.70	33	-17.3
				50	0	15.88	15.69	33	-17.31
	21100	2535	QPSK	1	0	15.94	15.75	33	-17.25
				1	49	15.95	15.76	33	-17.24
				25	12	15.82	15.63	33	-17.37
				50	0	15.79	15.60	33	-17.4
	21350	2565	QPSK	1	0	15.95	15.76	33	-17.24
				1	49	15.77	15.58	33	-17.42
				25	12	15.82	15.63	33	-17.37
				50	0	15.78	15.59	33	-17.41
	20800	2505	16QAM	1	0	15.94	15.75	33	-17.25
				1	49	15.94	15.75	33	-17.25
				25	12	15.78	15.59	33	-17.41
				50	0	15.96	15.77	33	-17.23
	21100	2535	16QAM	1	0	15.92	15.73	33	-17.27
				1	49	15.78	15.59	33	-17.41
				25	12	15.77	15.58	33	-17.42
				50	0	15.92	15.73	33	-17.27
	21350	2565	16QAM	1	0	15.93	15.74	33	-17.26
				1	49	15.84	15.65	33	-17.35
				25	12	15.91	15.72	33	-17.28
				50	0	15.91	15.72	33	-17.28
	20800	2505	64QAM	1	0	15.80	15.61	33	-17.39
				1	49	15.80	15.61	33	-17.39
				25	12	15.81	15.62	33	-17.38
				50	0	15.89	15.70	33	-17.3
	21100	2535	64QAM	1	0	15.89	15.70	33	-17.3
				1	49	15.90	15.71	33	-17.29
				25	12	15.85	15.66	33	-17.34
				50	0	15.90	15.71	33	-17.29
	21350	2565	64QAM	1	0	15.83	15.64	33	-17.36
				1	49	15.95	15.76	33	-17.24
				25	12	15.78	15.59	33	-17.41
				50	0	15.80	15.61	33	-17.39

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Antenna gain (dBi) -0.19

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	15.88	15.69	33	-17.31
				1	74	15.82	15.63	33	-17.37
				36	18	15.85	15.66	33	-17.34
				75	0	15.79	15.60	33	-17.4
	21100	2535	QPSK	1	0	15.91	15.72	33	-17.28
				1	74	15.79	15.60	33	-17.4
				36	18	15.92	15.73	33	-17.27
				75	0	15.89	15.70	33	-17.3
	21375	2562.5	QPSK	1	0	15.95	15.76	33	-17.24
				1	74	15.83	15.64	33	-17.36
				36	18	15.92	15.73	33	-17.27
				75	0	15.92	15.73	33	-17.27
	20825	2507.5	16QAM	1	0	15.89	15.70	33	-17.3
				1	74	15.83	15.64	33	-17.36
				36	18	15.92	15.73	33	-17.27
				75	0	15.81	15.62	33	-17.38
	21100	2535	16QAM	1	0	15.90	15.71	33	-17.29
				1	74	15.96	15.77	33	-17.23
				36	18	15.82	15.63	33	-17.37
				75	0	15.81	15.62	33	-17.38
	21375	2562.5	16QAM	1	0	15.81	15.62	33	-17.38
				1	74	15.92	15.73	33	-17.27
				36	18	15.86	15.67	33	-17.33
				75	0	15.85	15.66	33	-17.34
	20825	2507.5	64QAM	1	0	15.86	15.67	33	-17.33
				1	74	15.84	15.65	33	-17.35
				36	18	15.84	15.65	33	-17.35
				75	0	15.91	15.72	33	-17.28
	21100	2535	64QAM	1	0	15.89	15.70	33	-17.3
				1	74	15.79	15.60	33	-17.4
				36	18	15.93	15.74	33	-17.26
				75	0	15.87	15.68	33	-17.32
	21375	2562.5	64QAM	1	0	15.91	15.72	33	-17.28
				1	74	15.95	15.76	33	-17.24
				36	18	15.82	15.63	33	-17.37
				75	0	15.84	15.65	33	-17.35

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Antenna gain (dBi) -0.19

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	15.99	15.80	33	-17.2
				1	99	15.91	15.72	33	-17.28
				50	25	15.92	15.73	33	-17.27
				100	0	15.91	15.72	33	-17.28
	21100	2535	QPSK	1	0	15.89	15.70	33	-17.3
				1	99	15.83	15.64	33	-17.36
				50	25	15.93	15.74	33	-17.26
				100	0	15.88	15.69	33	-17.31
	21350	2560	QPSK	1	0	15.83	15.64	33	-17.36
				1	99	15.92	15.73	33	-17.27
				50	25	15.93	15.74	33	-17.26
				100	0	15.98	15.79	33	-17.21
	20850	2510	16QAM	1	0	15.96	15.77	33	-17.23
				1	99	15.97	15.78	33	-17.22
				50	25	15.82	15.63	33	-17.37
				100	0	15.89	15.70	33	-17.3
	21100	2535	16QAM	1	0	15.79	15.60	33	-17.4
				1	99	15.93	15.74	33	-17.26
				50	25	15.81	15.62	33	-17.38
				100	0	15.85	15.66	33	-17.34
	21350	2560	16QAM	1	0	15.96	15.77	33	-17.23
				1	99	15.80	15.61	33	-17.39
				50	25	15.86	15.67	33	-17.33
				100	0	15.91	15.72	33	-17.28
	20850	2510	64QAM	1	0	15.89	15.70	33	-17.3
				1	99	15.86	15.67	33	-17.33
				50	25	15.84	15.65	33	-17.35
				100	0	15.85	15.66	33	-17.34
	21100	2535	64QAM	1	0	15.92	15.73	33	-17.27
				1	99	15.80	15.61	33	-17.39
				50	25	15.96	15.77	33	-17.23
				100	0	15.94	15.75	33	-17.25
	21350	2560	64QAM	1	0	15.86	15.67	33	-17.33
				1	99	15.91	15.72	33	-17.28
				50	25	15.95	15.76	33	-17.24
				100	0	15.81	15.62	33	-17.38

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Antenna gain (dBi) -0.74

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	21.78	18.89	21.04	34.77	-13.73
				1	5	21.79	18.90	21.05	34.77	-13.72
				3	2	21.87	18.98	21.13	34.77	-13.64
				6	0	21.81	18.92	21.07	34.77	-13.7
	23095	707.5	QPSK	1	0	21.89	19.00	21.15	34.77	-13.62
				1	5	21.80	18.91	21.06	34.77	-13.71
				3	2	21.88	18.99	21.14	34.77	-13.63
				6	0	21.73	18.84	20.99	34.77	-13.78
	23173	715.5	QPSK	1	0	21.74	18.85	21.00	34.77	-13.77
				1	5	21.87	18.98	21.13	34.77	-13.64
				3	2	21.88	18.99	21.14	34.77	-13.63
				6	0	21.89	19.00	21.15	34.77	-13.62
	23017	699.7	16QAM	1	0	21.81	18.92	21.07	34.77	-13.7
				1	5	21.72	18.83	20.98	34.77	-13.79
				3	2	21.90	19.01	21.16	34.77	-13.61
				6	0	21.90	19.01	21.16	34.77	-13.61
	23095	707.5	16QAM	1	0	21.83	18.94	21.09	34.77	-13.68
				1	5	21.78	18.89	21.04	34.77	-13.73
				3	2	21.82	18.93	21.08	34.77	-13.69
				6	0	21.81	18.92	21.07	34.77	-13.7
	23173	715.5	16QAM	1	0	21.80	18.91	21.06	34.77	-13.71
				1	5	21.87	18.98	21.13	34.77	-13.64
				3	2	21.89	19.00	21.15	34.77	-13.62
				6	0	21.76	18.87	21.02	34.77	-13.75
	23017	699.7	64QAM	1	0	21.76	18.87	21.02	34.77	-13.75
				1	5	21.76	18.87	21.02	34.77	-13.75
				3	2	21.76	18.87	21.02	34.77	-13.75
				6	0	21.81	18.92	21.07	34.77	-13.7
	23095	707.5	64QAM	1	0	21.81	18.92	21.07	34.77	-13.7
				1	5	21.83	18.94	21.09	34.77	-13.68
				3	2	21.76	18.87	21.02	34.77	-13.75
				6	0	21.82	18.93	21.08	34.77	-13.69
	23173	715.5	64QAM	1	0	21.83	18.94	21.09	34.77	-13.68
				1	5	21.83	18.94	21.09	34.77	-13.68
				3	2	21.86	18.97	21.12	34.77	-13.65
				6	0	21.83	18.94	21.09	34.77	-13.68

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Antenna gain (dBi) -0.74

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	21.90	19.01	21.16	34.77	-13.61
				1	14	21.73	18.84	20.99	34.77	-13.78
				8	4	21.82	18.93	21.08	34.77	-13.69
				15	0	21.83	18.94	21.09	34.77	-13.68
	23095	707.5	QPSK	1	0	21.89	19.00	21.15	34.77	-13.62
				1	14	21.85	18.96	21.11	34.77	-13.66
				8	4	21.87	18.98	21.13	34.77	-13.64
				15	0	21.76	18.87	21.02	34.77	-13.75
	23165	714.5	QPSK	1	0	21.87	18.98	21.13	34.77	-13.64
				1	14	21.77	18.88	21.03	34.77	-13.74
				8	4	21.87	18.98	21.13	34.77	-13.64
				15	0	21.83	18.94	21.09	34.77	-13.68
	23025	700.5	16QAM	1	0	21.74	18.85	21.00	34.77	-13.77
				1	14	21.84	18.95	21.10	34.77	-13.67
				8	4	21.75	18.86	21.01	34.77	-13.76
				15	0	21.87	18.98	21.13	34.77	-13.64
	23095	707.5	16QAM	1	0	21.90	19.01	21.16	34.77	-13.61
				1	14	21.90	19.01	21.16	34.77	-13.61
				8	4	21.78	18.89	21.04	34.77	-13.73
				15	0	21.73	18.84	20.99	34.77	-13.78
	23165	714.5	16QAM	1	0	21.80	18.91	21.06	34.77	-13.71
				1	14	21.81	18.92	21.07	34.77	-13.7
				8	4	21.77	18.88	21.03	34.77	-13.74
				15	0	21.80	18.91	21.06	34.77	-13.71
	23025	700.5	64QAM	1	0	21.75	18.86	21.01	34.77	-13.76
				1	14	21.80	18.91	21.06	34.77	-13.71
				8	4	21.80	18.91	21.06	34.77	-13.71
				15	0	21.89	19.00	21.15	34.77	-13.62
	23095	707.5	64QAM	1	0	21.82	18.93	21.08	34.77	-13.69
				1	14	21.83	18.94	21.09	34.77	-13.68
				8	4	21.72	18.83	20.98	34.77	-13.79
				15	0	21.84	18.95	21.10	34.77	-13.67
	23165	714.5	64QAM	1	0	21.84	18.95	21.10	34.77	-13.67
				1	14	21.74	18.85	21.00	34.77	-13.77
				8	4	21.77	18.88	21.03	34.77	-13.74
				15	0	21.86	18.97	21.12	34.77	-13.65

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Antenna gain (dBi) -0.74

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)
5	23035	701.5	QPSK	1	0	21.79	18.90	21.05	34.77	-13.72
				1	24	21.74	18.85	21.00	34.77	-13.77
				12	6	21.91	19.02	21.17	34.77	-13.6
				25	0	21.79	18.90	21.05	34.77	-13.72
	23095	707.5	QPSK	1	0	21.83	18.94	21.09	34.77	-13.68
				1	24	21.73	18.84	20.99	34.77	-13.78
				12	6	21.91	19.02	21.17	34.77	-13.6
				25	0	21.82	18.93	21.08	34.77	-13.69
	23155	713.5	QPSK	1	0	21.73	18.84	20.99	34.77	-13.78
				1	24	21.84	18.95	21.10	34.77	-13.67
				12	6	21.91	19.02	21.17	34.77	-13.6
				25	0	21.75	18.86	21.01	34.77	-13.76
	23035	701.5	16QAM	1	0	21.77	18.88	21.03	34.77	-13.74
				1	24	21.84	18.95	21.10	34.77	-13.67
				12	6	21.75	18.86	21.01	34.77	-13.76
				25	0	21.75	18.86	21.01	34.77	-13.76
	23095	707.5	16QAM	1	0	21.91	19.02	21.17	34.77	-13.6
				1	24	21.89	19.00	21.15	34.77	-13.62
				12	6	21.85	18.96	21.11	34.77	-13.66
				25	0	21.78	18.89	21.04	34.77	-13.73
	23155	713.5	16QAM	1	0	21.73	18.84	20.99	34.77	-13.78
				1	24	21.91	19.02	21.17	34.77	-13.6
				12	6	21.80	18.91	21.06	34.77	-13.71
				25	0	21.85	18.96	21.11	34.77	-13.66
	23035	701.5	64QAM	1	0	21.90	19.01	21.16	34.77	-13.61
				1	24	21.78	18.89	21.04	34.77	-13.73
				12	6	21.78	18.89	21.04	34.77	-13.73
				25	0	21.81	18.92	21.07	34.77	-13.7
	23095	707.5	64QAM	1	0	21.74	18.85	21.00	34.77	-13.77
				1	24	21.73	18.84	20.99	34.77	-13.78
				12	6	21.75	18.86	21.01	34.77	-13.76
				25	0	21.82	18.93	21.08	34.77	-13.69
	23155	713.5	64QAM	1	0	21.84	18.95	21.10	34.77	-13.67
				1	24	21.73	18.84	20.99	34.77	-13.78
				12	6	21.88	18.99	21.14	34.77	-13.63
				25	0	21.74	18.85	21.00	34.77	-13.77

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Antenna gain (dBi) -0.74

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	21.87	18.98	21.13	34.77	-13.64
				1	49	21.91	19.02	21.17	34.77	-13.6
				25	12	21.65	18.76	20.91	34.77	-13.86
				50	0	21.72	18.83	20.98	34.77	-13.79
	23095	707.5	QPSK	1	0	21.83	18.94	21.09	34.77	-13.68
				1	49	21.83	18.94	21.09	34.77	-13.68
				25	12	21.63	18.74	20.89	34.77	-13.88
				50	0	21.66	18.77	20.92	34.77	-13.85
	23130	711	QPSK	1	0	21.96	19.07	21.22	34.77	-13.55
				1	49	21.94	19.05	21.20	34.77	-13.57
				25	12	21.63	18.74	20.89	34.77	-13.88
				50	0	21.68	18.79	20.94	34.77	-13.83
	23060	704	16QAM	1	0	21.73	18.84	20.99	34.77	-13.78
				1	49	21.91	19.02	21.17	34.77	-13.6
				25	12	21.84	18.95	21.10	34.77	-13.67
				50	0	21.77	18.88	21.03	34.77	-13.74
	23095	707.5	16QAM	1	0	21.84	18.95	21.10	34.77	-13.67
				1	49	21.76	18.87	21.02	34.77	-13.75
				25	12	21.82	18.93	21.08	34.77	-13.69
				50	0	21.90	19.01	21.16	34.77	-13.61
	23130	711	16QAM	1	0	21.74	18.85	21.00	34.77	-13.77
				1	49	21.88	18.99	21.14	34.77	-13.63
				25	12	21.75	18.86	21.01	34.77	-13.76
				50	0	21.82	18.93	21.08	34.77	-13.69
	23060	704	64QAM	1	0	21.77	18.88	21.03	34.77	-13.74
				1	49	21.87	18.98	21.13	34.77	-13.64
				25	12	21.73	18.84	20.99	34.77	-13.78
				50	0	21.78	18.89	21.04	34.77	-13.73
	23095	707.5	64QAM	1	0	21.74	18.85	21.00	34.77	-13.77
				1	49	21.80	18.91	21.06	34.77	-13.71
				25	12	21.85	18.96	21.11	34.77	-13.66
				50	0	21.76	18.87	21.02	34.77	-13.75
	23130	711	64QAM	1	0	21.87	18.98	21.13	34.77	-13.64
				1	49	21.74	18.85	21.00	34.77	-13.77
				25	12	21.76	18.87	21.02	34.77	-13.75
				50	0	21.79	18.90	21.05	34.77	-13.72

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Antenna gain (dBi) -1.35

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	22.75	19.25	21.40	34.77	-13.37
				1	24	22.85	19.35	21.50	34.77	-13.27
				12	6	22.79	19.29	21.44	34.77	-13.33
				25	0	22.78	19.28	21.43	34.77	-13.34
	23230	782	QPSK	1	0	22.80	19.30	21.45	34.77	-13.32
				1	24	22.75	19.25	21.40	34.77	-13.37
				12	6	22.91	19.41	21.56	34.77	-13.21
				25	0	22.75	19.25	21.40	34.77	-13.37
	23255	784.5	QPSK	1	0	22.90	19.40	21.55	34.77	-13.22
				1	24	22.84	19.34	21.49	34.77	-13.28
				12	6	22.91	19.41	21.56	34.77	-13.21
				25	0	22.82	19.32	21.47	34.77	-13.3
	23205	779.5	16QAM	1	0	22.81	19.31	21.46	34.77	-13.31
				1	24	22.77	19.27	21.42	34.77	-13.35
				12	6	22.75	19.25	21.40	34.77	-13.37
				25	0	22.86	19.36	21.51	34.77	-13.26
	23230	782	16QAM	1	0	22.76	19.26	21.41	34.77	-13.36
				1	24	22.76	19.26	21.41	34.77	-13.36
				12	6	22.91	19.41	21.56	34.77	-13.21
				25	0	22.75	19.25	21.40	34.77	-13.37
	23255	784.5	16QAM	1	0	22.90	19.40	21.55	34.77	-13.22
				1	24	22.81	19.31	21.46	34.77	-13.31
				12	6	22.79	19.29	21.44	34.77	-13.33
				25	0	22.87	19.37	21.52	34.77	-13.25
	23205	779.5	64QAM	1	0	22.86	19.36	21.51	34.77	-13.26
				1	24	22.90	19.40	21.55	34.77	-13.22
				12	6	22.84	19.34	21.49	34.77	-13.28
				25	0	22.77	19.27	21.42	34.77	-13.35
	23230	782	64QAM	1	0	22.84	19.34	21.49	34.77	-13.28
				1	24	22.86	19.36	21.51	34.77	-13.26
				12	6	22.82	19.32	21.47	34.77	-13.3
				25	0	22.76	19.26	21.41	34.77	-13.36
	23255	784.5	64QAM	1	0	22.81	19.31	21.46	34.77	-13.31
				1	24	22.84	19.34	21.49	34.77	-13.28
				12	6	22.74	19.24	21.39	34.77	-13.38
				25	0	22.82	19.32	21.47	34.77	-13.3

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Antenna gain (dBi) -1.35

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	22.95	19.45	21.60	34.77	-13.17
				1	49	22.99	19.49	21.64	34.77	-13.13
				25	12	22.96	19.46	21.61	34.77	-13.16
				50	0	22.74	19.24	21.39	34.77	-13.38
	23230	782	16QAM	1	0	22.30	18.80	20.95	34.77	-13.82
				1	49	22.24	18.74	20.89	34.77	-13.88
				25	12	22.93	19.43	21.58	34.77	-13.19
				50	0	22.94	19.44	21.59	34.77	-13.18
	23230	782	64QAM	1	0	22.70	19.20	21.35	34.77	-13.42
				1	49	22.84	19.34	21.49	34.77	-13.28
				25	12	22.84	19.34	21.49	34.77	-13.28
				50	0	22.76	19.26	21.41	34.77	-13.36

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Antenna gain (dBi) -1.35

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	22.78	19.28	21.43	34.77	-13.34
				1	24	22.89	19.39	21.54	34.77	-13.23
				12	6	22.85	19.35	21.50	34.77	-13.27
				25	0	22.77	19.27	21.42	34.77	-13.35
	23330	793	QPSK	1	0	22.78	19.28	21.43	34.77	-13.34
				1	24	22.80	19.30	21.45	34.77	-13.32
				12	6	22.94	19.44	21.59	34.77	-13.18
				25	0	22.90	19.40	21.55	34.77	-13.22
	23355	795.5	QPSK	1	0	22.84	19.34	21.49	34.77	-13.28
				1	24	22.88	19.38	21.53	34.77	-13.24
				12	6	22.94	19.44	21.59	34.77	-13.18
				25	0	22.75	19.25	21.40	34.77	-13.37
	23305	790.5	16QAM	1	0	22.76	19.26	21.41	34.77	-13.36
				1	24	22.91	19.41	21.56	34.77	-13.21
				12	6	22.75	19.25	21.40	34.77	-13.37
				25	0	22.92	19.42	21.57	34.77	-13.2
	23330	793	16QAM	1	0	22.94	19.44	21.59	34.77	-13.18
				1	24	22.86	19.36	21.51	34.77	-13.26
				12	6	22.92	19.42	21.57	34.77	-13.2
				25	0	22.90	19.40	21.55	34.77	-13.22
	23355	795.5	16QAM	1	0	22.81	19.31	21.46	34.77	-13.31
				1	24	22.87	19.37	21.52	34.77	-13.25
				12	6	22.77	19.27	21.42	34.77	-13.35
				25	0	22.79	19.29	21.44	34.77	-13.33
	23305	790.5	64QAM	1	0	22.75	19.25	21.40	34.77	-13.37
				1	24	22.77	19.27	21.42	34.77	-13.35
				12	6	22.80	19.30	21.45	34.77	-13.32
				25	0	22.78	19.28	21.43	34.77	-13.34
	23330	793	64QAM	1	0	22.92	19.42	21.57	34.77	-13.2
				1	24	22.91	19.41	21.56	34.77	-13.21
				12	6	22.75	19.25	21.40	34.77	-13.37
				25	0	22.80	19.30	21.45	34.77	-13.32
	23355	795.5	64QAM	1	0	22.74	19.24	21.39	34.77	-13.38
				1	24	22.87	19.37	21.52	34.77	-13.25
				12	6	22.90	19.40	21.55	34.77	-13.22
				25	0	22.77	19.27	21.42	34.77	-13.35

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Antenna gain (dBi) -1.35

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	22.98	19.48	21.63	34.77	-13.14
				1	49	22.96	19.46	21.61	34.77	-13.16
				25	12	22.89	19.39	21.54	34.77	-13.23
				50	0	22.91	19.41	21.56	34.77	-13.21
	23330	793	16QAM	1	0	22.87	19.37	21.52	34.77	-13.25
				1	49	22.81	19.31	21.46	34.77	-13.31
				25	12	22.94	19.44	21.59	34.77	-13.18
				50	0	22.78	19.28	21.43	34.77	-13.34
	23330	793	64QAM	1	0	22.83	19.33	21.48	34.77	-13.29
				1	49	22.79	19.29	21.44	34.77	-13.33
				25	12	22.83	19.33	21.48	34.77	-13.29
				50	0	22.86	19.36	21.51	34.77	-13.26

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Antenna gain (dBi) -0.74

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	21.76	18.87	21.02	34.77	-13.75
				1	24	21.67	18.78	20.93	34.77	-13.84
				12	6	21.63	18.74	20.89	34.77	-13.88
				25	0	21.77	18.88	21.03	34.77	-13.74
	23790	710	QPSK	1	0	21.76	18.87	21.02	34.77	-13.75
				1	24	21.64	18.75	20.90	34.77	-13.87
				12	6	21.66	18.77	20.92	34.77	-13.85
				25	0	21.74	18.85	21.00	34.77	-13.77
	23825	713.5	QPSK	1	0	21.81	18.92	21.07	34.77	-13.7
				1	24	21.64	18.75	20.90	34.77	-13.87
				12	6	21.66	18.77	20.92	34.77	-13.85
				25	0	21.73	18.84	20.99	34.77	-13.78
	23755	706.5	16QAM	1	0	21.63	18.74	20.89	34.77	-13.88
				1	24	21.75	18.86	21.01	34.77	-13.76
				12	6	21.73	18.84	20.99	34.77	-13.78
				25	0	21.70	18.81	20.96	34.77	-13.81
	23790	710	16QAM	1	0	21.77	18.88	21.03	34.77	-13.74
				1	24	21.74	18.85	21.00	34.77	-13.77
				12	6	21.73	18.84	20.99	34.77	-13.78
				25	0	21.65	18.76	20.91	34.77	-13.86
	23825	713.5	16QAM	1	0	21.75	18.86	21.01	34.77	-13.76
				1	24	21.76	18.87	21.02	34.77	-13.75
				12	6	21.78	18.89	21.04	34.77	-13.73
				25	0	21.75	18.86	21.01	34.77	-13.76
	23755	706.5	64QAM	1	0	21.70	18.81	20.96	34.77	-13.81
				1	24	21.77	18.88	21.03	34.77	-13.74
				12	6	21.80	18.91	21.06	34.77	-13.71
				25	0	21.82	18.93	21.08	34.77	-13.69
	23790	710	64QAM	1	0	21.77	18.88	21.03	34.77	-13.74
				1	24	21.79	18.90	21.05	34.77	-13.72
				12	6	21.63	18.74	20.89	34.77	-13.88
				25	0	21.81	18.92	21.07	34.77	-13.7
	23825	713.5	64QAM	1	0	21.74	18.85	21.00	34.77	-13.77
				1	24	21.63	18.74	20.89	34.77	-13.88
				12	6	21.77	18.88	21.03	34.77	-13.74
				25	0	22.77	19.88	22.03	34.77	-12.74

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Antenna gain (dBi) -0.74

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	21.76	18.87	21.02	34.77	-13.75
				1	49	21.81	18.92	21.07	34.77	-13.7
				25	12	21.65	18.76	20.91	34.77	-13.86
				50	0	21.57	18.68	20.83	34.77	-13.94
	23790	710	QPSK	1	0	21.94	19.05	21.20	34.77	-13.57
				1	49	21.96	19.07	21.22	34.77	-13.55
				25	12	21.62	18.73	20.88	34.77	-13.89
				50	0	21.67	18.78	20.93	34.77	-13.84
	23800	711	QPSK	1	0	21.93	19.04	21.19	34.77	-13.58
				1	49	21.92	19.03	21.18	34.77	-13.59
				25	12	21.62	18.73	20.88	34.77	-13.89
				50	0	21.64	18.75	20.90	34.77	-13.87
	23780	709	16QAM	1	0	21.83	18.94	21.09	34.77	-13.68
				1	49	21.70	18.81	20.96	34.77	-13.81
				25	12	21.73	18.84	20.99	34.77	-13.78
				50	0	21.77	18.88	21.03	34.77	-13.74
	23790	710	16QAM	1	0	21.82	18.93	21.08	34.77	-13.69
				1	49	21.79	18.90	21.05	34.77	-13.72
				25	12	21.81	18.92	21.07	34.77	-13.7
				50	0	21.82	18.93	21.08	34.77	-13.69
	23800	711	16QAM	1	0	21.71	18.82	20.97	34.77	-13.8
				1	49	21.65	18.76	20.91	34.77	-13.86
				25	12	21.75	18.86	21.01	34.77	-13.76
				50	0	21.79	18.90	21.05	34.77	-13.72
	23780	709	64QAM	1	0	21.79	18.90	21.05	34.77	-13.72
				1	49	21.81	18.92	21.07	34.77	-13.7
				25	12	21.65	18.76	20.91	34.77	-13.86
				50	0	21.66	18.77	20.92	34.77	-13.85
	23790	710	64QAM	1	0	21.71	18.82	20.97	34.77	-13.8
				1	49	21.72	18.83	20.98	34.77	-13.79
				25	12	21.69	18.80	20.95	34.77	-13.82
				50	0	21.83	18.94	21.09	34.77	-13.68
	23800	711	64QAM	1	0	21.73	18.84	20.99	34.77	-13.78
				1	49	21.70	18.81	20.96	34.77	-13.81
				25	12	21.73	18.84	20.99	34.77	-13.78
				50	0	21.84	18.95	21.10	34.77	-13.67

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Antenna gain (dBi) -0.02

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)
1.4	26047	1850.7	QPSK	1	0	18.93	18.91	33	-14.09
				1	5	18.87	18.85	33	-14.15
				3	2	18.90	18.88	33	-14.12
				6	0	18.85	18.83	33	-14.17
	26365	1882.5	QPSK	1	0	18.93	18.91	33	-14.09
				1	5	18.92	18.90	33	-14.1
				3	2	18.91	18.89	33	-14.11
				6	0	18.90	18.88	33	-14.12
	26683	1914.3	QPSK	1	0	18.90	18.88	33	-14.12
				1	5	18.92	18.90	33	-14.1
				3	2	18.91	18.89	33	-14.11
				6	0	18.85	18.83	33	-14.17
	26047	1850.7	16QAM	1	0	18.93	18.91	33	-14.09
				1	5	18.94	18.92	33	-14.08
				3	2	18.93	18.91	33	-14.09
				6	0	18.91	18.89	33	-14.11
	26365	1882.5	16QAM	1	0	18.92	18.90	33	-14.1
				1	5	18.92	18.90	33	-14.1
				3	2	18.88	18.86	33	-14.14
				6	0	18.91	18.89	33	-14.11
	26683	1914.3	16QAM	1	0	18.92	18.90	33	-14.1
				1	5	18.88	18.86	33	-14.14
				3	2	18.94	18.92	33	-14.08
				6	0	18.92	18.90	33	-14.1
	26047	1850.7	64QAM	1	0	18.89	18.87	33	-14.13
				1	5	18.88	18.86	33	-14.14
				3	2	18.92	18.90	33	-14.1
				6	0	18.91	18.89	33	-14.11
	26365	1882.5	64QAM	1	0	18.87	18.85	33	-14.15
				1	5	18.92	18.90	33	-14.1
				3	2	18.87	18.85	33	-14.15
				6	0	18.91	18.89	33	-14.11
	26683	1914.3	64QAM	1	0	18.94	18.92	33	-14.08
				1	5	18.89	18.87	33	-14.13
				3	2	18.86	18.84	33	-14.16
				6	0	18.89	18.87	33	-14.13

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Antenna gain (dBi) -0.02

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	18.91	18.89	33	-14.11
				1	14	18.89	18.87	33	-14.13
				8	4	18.90	18.88	33	-14.12
				15	0	18.90	18.88	33	-14.12
	26365	1882.5	QPSK	1	0	18.84	18.82	33	-14.18
				1	14	18.89	18.87	33	-14.13
				8	4	18.88	18.86	33	-14.14
				15	0	18.87	18.85	33	-14.15
	26675	1913.5	QPSK	1	0	18.87	18.85	33	-14.15
				1	14	18.88	18.86	33	-14.14
				8	4	18.88	18.86	33	-14.14
				15	0	18.89	18.87	33	-14.13
	26055	1851.5	16QAM	1	0	18.91	18.89	33	-14.11
				1	14	18.92	18.90	33	-14.1
				8	4	18.85	18.83	33	-14.17
				15	0	18.92	18.90	33	-14.1
	26365	1882.5	16QAM	1	0	18.86	18.84	33	-14.16
				1	14	18.87	18.85	33	-14.15
				8	4	18.84	18.82	33	-14.18
				15	0	18.92	18.90	33	-14.1
	26675	1913.5	16QAM	1	0	18.87	18.85	33	-14.15
				1	14	18.84	18.82	33	-14.18
				8	4	18.85	18.83	33	-14.17
				15	0	18.85	18.83	33	-14.17
	26055	1851.5	64QAM	1	0	18.89	18.87	33	-14.13
				1	14	18.83	18.81	33	-14.19
				8	4	18.86	18.84	33	-14.16
				15	0	18.83	18.81	33	-14.19
	26365	1882.5	64QAM	1	0	18.85	18.83	33	-14.17
				1	14	18.84	18.82	33	-14.18
				8	4	18.88	18.86	33	-14.14
				15	0	18.84	18.82	33	-14.18
	26675	1913.5	64QAM	1	0	18.84	18.82	33	-14.18
				1	14	18.91	18.89	33	-14.11
				8	4	18.88	18.86	33	-14.14
				15	0	18.83	18.81	33	-14.19

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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	18.91	18.89	33	-14.11
				1	24	18.88	18.86	33	-14.14
				12	6	18.88	18.86	33	-14.14
				25	0	18.87	18.85	33	-14.15
	26365	1882.5	QPSK	1	0	18.84	18.82	33	-14.18
				1	24	18.88	18.86	33	-14.14
				12	6	18.85	18.83	33	-14.17
				25	0	18.85	18.83	33	-14.17
	26665	1912.5	QPSK	1	0	18.87	18.85	33	-14.15
				1	24	18.91	18.89	33	-14.11
				12	6	18.85	18.83	33	-14.17
				25	0	18.88	18.86	33	-14.14
	26065	1852.5	16QAM	1	0	18.85	18.83	33	-14.17
				1	24	18.89	18.87	33	-14.13
				12	6	18.88	18.86	33	-14.14
				25	0	18.84	18.82	33	-14.18
	26365	1882.5	16QAM	1	0	18.86	18.84	33	-14.16
				1	24	18.90	18.88	33	-14.12
				12	6	18.88	18.86	33	-14.14
				25	0	18.88	18.86	33	-14.14
	26665	1912.5	16QAM	1	0	18.85	18.83	33	-14.17
				1	24	18.90	18.88	33	-14.12
				12	6	18.90	18.88	33	-14.12
				25	0	18.88	18.86	33	-14.14
	26065	1852.5	64QAM	1	0	18.85	18.83	33	-14.17
				1	24	18.92	18.90	33	-14.1
				12	6	18.89	18.87	33	-14.13
				25	0	18.92	18.90	33	-14.1
	26365	1882.5	64QAM	1	0	18.83	18.81	33	-14.19
				1	24	18.92	18.90	33	-14.1
				12	6	18.85	18.83	33	-14.17
				25	0	18.84	18.82	33	-14.18
	26665	1912.5	64QAM	1	0	18.90	18.88	33	-14.12
				1	24	18.83	18.81	33	-14.19
				12	6	18.85	18.83	33	-14.17
				25	0	18.89	18.87	33	-14.13

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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	18.85	18.83	33	-14.17
				1	49	18.86	18.84	33	-14.16
				25	12	18.91	18.89	33	-14.11
				50	0	18.89	18.87	33	-14.13
	26365	1882.5	QPSK	1	0	18.89	18.87	33	-14.13
				1	49	18.91	18.89	33	-14.11
				25	12	18.87	18.85	33	-14.15
				50	0	18.87	18.85	33	-14.15
	26640	1910	QPSK	1	0	18.92	18.90	33	-14.1
				1	49	18.84	18.82	33	-14.18
				25	12	18.87	18.85	33	-14.15
				50	0	18.88	18.86	33	-14.14
	26090	1855	16QAM	1	0	18.84	18.82	33	-14.18
				1	49	18.86	18.84	33	-14.16
				25	12	18.88	18.86	33	-14.14
				50	0	18.91	18.89	33	-14.11
	26365	1882.5	16QAM	1	0	18.85	18.83	33	-14.17
				1	49	18.86	18.84	33	-14.16
				25	12	18.92	18.90	33	-14.1
				50	0	18.85	18.83	33	-14.17
	26640	1910	16QAM	1	0	18.86	18.84	33	-14.16
				1	49	18.91	18.89	33	-14.11
				25	12	18.83	18.81	33	-14.19
				50	0	18.86	18.84	33	-14.16
	26090	1855	64QAM	1	0	18.87	18.85	33	-14.15
				1	49	18.86	18.84	33	-14.16
				25	12	18.88	18.86	33	-14.14
				50	0	18.90	18.88	33	-14.12
	26365	1882.5	64QAM	1	0	18.92	18.90	33	-14.1
				1	49	18.86	18.84	33	-14.16
				25	12	18.86	18.84	33	-14.16
				50	0	18.85	18.83	33	-14.17
26640	1910	64QAM	1	0	18.91	18.89	33	-14.11	
			1	49	18.83	18.81	33	-14.19	
			25	12	18.90	18.88	33	-14.12	
			50	0	18.88	18.86	33	-14.14	

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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	18.87	18.85	33	-14.15
				1	74	18.88	18.86	33	-14.14
				36	18	18.88	18.86	33	-14.14
				75	0	18.87	18.85	33	-14.15
	26365	1882.5	QPSK	1	0	18.90	18.88	33	-14.12
				1	74	18.90	18.88	33	-14.12
				36	18	18.88	18.86	33	-14.14
				75	0	18.85	18.83	33	-14.17
	26615	1907.5	QPSK	1	0	18.86	18.84	33	-14.16
				1	74	18.93	18.91	33	-14.09
				36	18	18.88	18.86	33	-14.14
				75	0	18.87	18.85	33	-14.15
	26115	1857.5	16QAM	1	0	18.91	18.89	33	-14.11
				1	74	18.87	18.85	33	-14.15
				36	18	18.84	18.82	33	-14.18
				75	0	18.89	18.87	33	-14.13
	26365	1882.5	16QAM	1	0	18.87	18.85	33	-14.15
				1	74	18.85	18.83	33	-14.17
				36	18	18.85	18.83	33	-14.17
				75	0	18.89	18.87	33	-14.13
	26615	1907.5	16QAM	1	0	18.85	18.83	33	-14.17
				1	74	18.91	18.89	33	-14.11
				36	18	18.87	18.85	33	-14.15
				75	0	18.85	18.83	33	-14.17
	26115	1857.5	64QAM	1	0	18.92	18.90	33	-14.1
				1	74	18.93	18.91	33	-14.09
				36	18	18.93	18.91	33	-14.09
				75	0	18.86	18.84	33	-14.16
	26365	1882.5	64QAM	1	0	18.90	18.88	33	-14.12
				1	74	18.86	18.84	33	-14.16
				36	18	18.90	18.88	33	-14.12
				75	0	18.87	18.85	33	-14.15
	26615	1907.5	64QAM	1	0	18.90	18.88	33	-14.12
				1	74	18.84	18.82	33	-14.18
				36	18	18.89	18.87	33	-14.13
				75	0	18.93	18.91	33	-14.09

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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	18.96	18.94	33	-14.06
				1	99	18.93	18.91	33	-14.09
				50	25	18.94	18.92	33	-14.08
				100	0	18.92	18.90	33	-14.1
	26365	1882.5	QPSK	1	0	18.99	18.97	33	-14.03
				1	99	18.95	18.93	33	-14.07
				50	25	18.87	18.85	33	-14.15
				100	0	18.86	18.84	33	-14.16
	26590	1905	QPSK	1	0	18.84	18.82	33	-14.18
				1	99	18.92	18.90	33	-14.1
				50	25	18.87	18.85	33	-14.15
				100	0	18.90	18.88	33	-14.12
	26140	1860	16QAM	1	0	18.91	18.89	33	-14.11
				1	99	18.90	18.88	33	-14.12
				50	25	18.85	18.83	33	-14.17
				100	0	18.85	18.83	33	-14.17
	26365	1882.5	16QAM	1	0	18.88	18.86	33	-14.14
				1	99	18.92	18.90	33	-14.1
				50	25	18.93	18.91	33	-14.09
				100	0	18.91	18.89	33	-14.11
	26590	1905	16QAM	1	0	18.94	18.92	33	-14.08
				1	99	18.91	18.89	33	-14.11
				50	25	18.91	18.89	33	-14.11
				100	0	18.88	18.86	33	-14.14
	26140	1860	64QAM	1	0	18.91	18.89	33	-14.11
				1	99	18.87	18.85	33	-14.15
				50	25	18.85	18.83	33	-14.17
				100	0	18.86	18.84	33	-14.16
	26365	1882.5	64QAM	1	0	18.92	18.90	33	-14.1
				1	99	18.90	18.88	33	-14.12
				50	25	18.90	18.88	33	-14.12
				100	0	18.88	18.86	33	-14.14
	26590	1905	64QAM	1	0	18.85	18.83	33	-14.17
				1	99	18.90	18.88	33	-14.12
				50	25	18.86	18.84	33	-14.16
				100	0	18.89	18.87	33	-14.13

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Antenna gain (dBi) -3

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	23.36	18.21	20.36	38.45	-18.09
				1	5	23.32	18.17	20.32	38.45	-18.13
				3	2	23.28	18.13	20.28	38.45	-18.17
				6	0	23.40	18.25	20.40	38.45	-18.05
	26915	836.5	QPSK	1	0	23.34	18.19	20.34	38.45	-18.11
				1	5	23.42	18.27	20.42	38.45	-18.03
				3	2	23.25	18.10	20.25	38.45	-18.2
				6	0	23.43	18.28	20.43	38.45	-18.02
	27033	848.3	QPSK	1	0	23.38	18.23	20.38	38.45	-18.07
				1	5	23.30	18.15	20.30	38.45	-18.15
				3	2	23.25	18.10	20.25	38.45	-18.2
				6	0	23.31	18.16	20.31	38.45	-18.14
	26797	824.7	16QAM	1	0	23.36	18.21	20.36	38.45	-18.09
				1	5	23.28	18.13	20.28	38.45	-18.17
				3	2	23.40	18.25	20.40	38.45	-18.05
				6	0	23.41	18.26	20.41	38.45	-18.04
	26915	836.5	16QAM	1	0	23.39	18.24	20.39	38.45	-18.06
				1	5	23.34	18.19	20.34	38.45	-18.11
				3	2	23.31	18.16	20.31	38.45	-18.14
				6	0	23.28	18.13	20.28	38.45	-18.17
	27033	848.3	16QAM	1	0	23.44	18.29	20.44	38.45	-18.01
				1	5	23.35	18.20	20.35	38.45	-18.1
				3	2	23.29	18.14	20.29	38.45	-18.16
				6	0	23.41	18.26	20.41	38.45	-18.04
	26797	824.7	64QAM	1	0	23.29	18.14	20.29	38.45	-18.16
				1	5	23.28	18.13	20.28	38.45	-18.17
				3	2	23.36	18.21	20.36	38.45	-18.09
				6	0	23.32	18.17	20.32	38.45	-18.13
	26915	836.5	64QAM	1	0	23.41	18.26	20.41	38.45	-18.04
				1	5	23.28	18.13	20.28	38.45	-18.17
				3	2	23.32	18.17	20.32	38.45	-18.13
				6	0	23.26	18.11	20.26	38.45	-18.19
	27033	848.3	64QAM	1	0	23.28	18.13	20.28	38.45	-18.17
				1	5	23.35	18.20	20.35	38.45	-18.1
				3	2	23.42	18.27	20.42	38.45	-18.03
				6	0	23.37	18.22	20.37	38.45	-18.08

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Antenna gain (dBi) -3

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	23.31	18.16	20.31	38.45	-18.14
				1	14	23.32	18.17	20.32	38.45	-18.13
				8	4	23.43	18.28	20.43	38.45	-18.02
				15	0	23.32	18.17	20.32	38.45	-18.13
	26915	836.5	QPSK	1	0	23.31	18.16	20.31	38.45	-18.14
				1	14	23.30	18.15	20.30	38.45	-18.15
				8	4	23.25	18.10	20.25	38.45	-18.2
				15	0	23.26	18.11	20.26	38.45	-18.19
	27025	847.5	QPSK	1	0	23.41	18.26	20.41	38.45	-18.04
				1	14	23.35	18.20	20.35	38.45	-18.1
				8	4	23.25	18.10	20.25	38.45	-18.2
				15	0	23.30	18.15	20.30	38.45	-18.15
	26805	825.5	16QAM	1	0	23.27	18.12	20.27	38.45	-18.18
				1	14	23.29	18.14	20.29	38.45	-18.16
				8	4	23.36	18.21	20.36	38.45	-18.09
				15	0	23.30	18.15	20.30	38.45	-18.15
	26915	836.5	16QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	14	23.35	18.20	20.35	38.45	-18.1
				8	4	23.43	18.28	20.43	38.45	-18.02
				15	0	23.35	18.20	20.35	38.45	-18.1
	27025	847.5	16QAM	1	0	23.41	18.26	20.41	38.45	-18.04
				1	14	23.27	18.12	20.27	38.45	-18.18
				8	4	23.39	18.24	20.39	38.45	-18.06
				15	0	23.32	18.17	20.32	38.45	-18.13
	26805	825.5	64QAM	1	0	23.24	18.09	20.24	38.45	-18.21
				1	14	23.27	18.12	20.27	38.45	-18.18
				8	4	23.25	18.10	20.25	38.45	-18.2
				15	0	23.43	18.28	20.43	38.45	-18.02
	26915	836.5	64QAM	1	0	23.27	18.12	20.27	38.45	-18.18
				1	14	23.25	18.10	20.25	38.45	-18.2
				8	4	23.34	18.19	20.34	38.45	-18.11
				15	0	23.30	18.15	20.30	38.45	-18.15
	27025	847.5	64QAM	1	0	23.26	18.11	20.26	38.45	-18.19
				1	14	23.41	18.26	20.41	38.45	-18.04
				8	4	23.32	18.17	20.32	38.45	-18.13
				15	0	23.24	18.09	20.24	38.45	-18.21

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Antenna gain (dBi) -3

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	23.30	18.15	20.30	38.45	-18.15
				1	24	23.34	18.19	20.34	38.45	-18.11
				12	6	23.30	18.15	20.30	38.45	-18.15
				25	0	23.33	18.18	20.33	38.45	-18.12
	26915	836.5	QPSK	1	0	23.40	18.25	20.40	38.45	-18.05
				1	24	23.37	18.22	20.37	38.45	-18.08
				12	6	23.37	18.22	20.37	38.45	-18.08
				25	0	23.40	18.25	20.40	38.45	-18.05
	27015	846.5	QPSK	1	0	23.25	18.10	20.25	38.45	-18.2
				1	24	23.34	18.19	20.34	38.45	-18.11
				12	6	23.37	18.22	20.37	38.45	-18.08
				25	0	23.24	18.09	20.24	38.45	-18.21
	26815	826.5	16QAM	1	0	23.40	18.25	20.40	38.45	-18.05
				1	24	23.35	18.20	20.35	38.45	-18.1
				12	6	23.23	18.08	20.23	38.45	-18.22
				25	0	23.42	18.27	20.42	38.45	-18.03
	26915	836.5	16QAM	1	0	23.39	18.24	20.39	38.45	-18.06
				1	24	23.26	18.11	20.26	38.45	-18.19
				12	6	23.34	18.19	20.34	38.45	-18.11
				25	0	23.32	18.17	20.32	38.45	-18.13
	27015	846.5	16QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	24	23.40	18.25	20.40	38.45	-18.05
				12	6	23.32	18.17	20.32	38.45	-18.13
				25	0	23.31	18.16	20.31	38.45	-18.14
	26815	826.5	64QAM	1	0	23.30	18.15	20.30	38.45	-18.15
				1	24	23.35	18.20	20.35	38.45	-18.1
				12	6	23.41	18.26	20.41	38.45	-18.04
				25	0	23.24	18.09	20.24	38.45	-18.21
	26915	836.5	64QAM	1	0	23.28	18.13	20.28	38.45	-18.17
				1	24	23.41	18.26	20.41	38.45	-18.04
				12	6	23.41	18.26	20.41	38.45	-18.04
				25	0	23.30	18.15	20.30	38.45	-18.15
	27015	846.5	64QAM	1	0	23.27	18.12	20.27	38.45	-18.18
				1	24	23.34	18.19	20.34	38.45	-18.11
				12	6	23.27	18.12	20.27	38.45	-18.18
				25	0	23.24	18.09	20.24	38.45	-18.21

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Antenna gain (dBi) -3

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)
10	26840	829	QPSK	1	0	23.39	18.24	20.39	38.45	-18.06
				1	49	23.25	18.10	20.25	38.45	-18.2
				25	12	23.24	18.09	20.24	38.45	-18.21
				50	0	23.29	18.14	20.29	38.45	-18.16
	26915	836.5	QPSK	1	0	23.40	18.25	20.40	38.45	-18.05
				1	49	23.24	18.09	20.24	38.45	-18.21
				25	12	23.31	18.16	20.31	38.45	-18.14
				50	0	23.24	18.09	20.24	38.45	-18.21
	26990	844	QPSK	1	0	23.34	18.19	20.34	38.45	-18.11
				1	49	23.38	18.23	20.38	38.45	-18.07
				25	12	23.31	18.16	20.31	38.45	-18.14
				50	0	23.35	18.20	20.35	38.45	-18.1
	26840	829	16QAM	1	0	23.37	18.22	20.37	38.45	-18.08
				1	49	23.36	18.21	20.36	38.45	-18.09
				25	12	23.25	18.10	20.25	38.45	-18.2
				50	0	23.25	18.10	20.25	38.45	-18.2
	26915	836.5	16QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	49	23.40	18.25	20.40	38.45	-18.05
				25	12	23.38	18.23	20.38	38.45	-18.07
				50	0	23.33	18.18	20.33	38.45	-18.12
	26990	844	16QAM	1	0	23.34	18.19	20.34	38.45	-18.11
				1	49	23.24	18.09	20.24	38.45	-18.21
				25	12	23.32	18.17	20.32	38.45	-18.13
				50	0	23.39	18.24	20.39	38.45	-18.06
	26840	829	64QAM	1	0	23.29	18.14	20.29	38.45	-18.16
				1	49	23.25	18.10	20.25	38.45	-18.2
				25	12	23.30	18.15	20.30	38.45	-18.15
				50	0	23.34	18.19	20.34	38.45	-18.11
	26915	836.5	64QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	49	23.41	18.26	20.41	38.45	-18.04
				25	12	23.31	18.16	20.31	38.45	-18.14
				50	0	23.40	18.25	20.40	38.45	-18.05
	26990	844	64QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	49	23.40	18.25	20.40	38.45	-18.05
				25	12	23.39	18.24	20.39	38.45	-18.06
				50	0	23.30	18.15	20.30	38.45	-18.15

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Antenna gain (dBi) -3

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)
15	26865	831.5	QPSK	1	0	23.44	18.29	20.44	38.45	-18.01
				1	74	23.49	18.34	20.49	38.45	-17.96
				36	18	23.46	18.31	20.46	38.45	-17.99
				75	0	23.36	18.21	20.36	38.45	-18.09
	26915	836.5	QPSK	1	0	23.42	18.27	20.42	38.45	-18.03
				1	74	23.46	18.31	20.46	38.45	-17.99
				36	18	23.37	18.22	20.37	38.45	-18.08
				75	0	23.49	18.34	20.49	38.45	-17.96
	26965	841.5	QPSK	1	0	23.47	18.32	20.47	38.45	-17.98
				1	74	23.41	18.26	20.41	38.45	-18.04
				36	18	23.37	18.22	20.37	38.45	-18.08
				75	0	23.36	18.21	20.36	38.45	-18.09
	26865	831.5	16QAM	1	0	23.41	18.26	20.41	38.45	-18.04
				1	74	23.41	18.26	20.41	38.45	-18.04
				36	18	23.31	18.16	20.31	38.45	-18.14
				75	0	23.31	18.16	20.31	38.45	-18.14
	26915	836.5	16QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	74	23.27	18.12	20.27	38.45	-18.18
				36	18	23.44	18.29	20.44	38.45	-18.01
				75	0	23.32	18.17	20.32	38.45	-18.13
	26965	841.5	16QAM	1	0	23.40	18.25	20.40	38.45	-18.05
				1	74	23.39	18.24	20.39	38.45	-18.06
				36	18	23.39	18.24	20.39	38.45	-18.06
				75	0	23.29	18.14	20.29	38.45	-18.16
	26865	831.5	64QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	74	23.34	18.19	20.34	38.45	-18.11
				36	18	23.39	18.24	20.39	38.45	-18.06
				75	0	23.37	18.22	20.37	38.45	-18.08
	26915	836.5	64QAM	1	0	23.29	18.14	20.29	38.45	-18.16
				1	74	23.25	18.10	20.25	38.45	-18.2
				36	18	23.30	18.15	20.30	38.45	-18.15
				75	0	23.44	18.29	20.44	38.45	-18.01
	26965	841.5	64QAM	1	0	23.33	18.18	20.33	38.45	-18.12
				1	74	23.40	18.25	20.40	38.45	-18.05
				36	18	23.40	18.25	20.40	38.45	-18.05
				75	0	23.41	18.26	20.41	38.45	-18.04

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Antenna gain (dBi) -3

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	23.34	18.19	20.34	50	-29.66
				1	5	23.33	18.18	20.33	50	-29.67
				3	2	23.29	18.14	20.29	50	-29.71
				6	0	23.41	18.26	20.41	50	-29.59
	26740	819	QPSK	1	0	23.36	18.21	20.36	50	-29.64
				1	5	23.38	18.23	20.38	50	-29.62
				3	2	23.27	18.12	20.27	50	-29.73
				6	0	23.38	18.23	20.38	50	-29.62
	26783	823.3	QPSK	1	0	23.37	18.22	20.37	50	-29.63
				1	5	23.31	18.16	20.31	50	-29.69
				3	2	23.26	18.11	20.26	50	-29.74
				6	0	23.33	18.18	20.33	50	-29.67
	26697	814.7	16QAM	1	0	23.34	18.19	20.34	50	-29.66
				1	5	23.29	18.14	20.29	50	-29.71
				3	2	23.38	18.23	20.38	50	-29.62
				6	0	23.39	18.24	20.39	50	-29.61
	26740	819	16QAM	1	0	23.37	18.22	20.37	50	-29.63
				1	5	23.35	18.20	20.35	50	-29.65
				3	2	23.29	18.14	20.29	50	-29.71
				6	0	23.26	18.11	20.26	50	-29.74
	26783	823.3	16QAM	1	0	23.40	18.25	20.40	50	-29.6
				1	5	23.31	18.16	20.31	50	-29.69
				3	2	23.28	18.13	20.28	50	-29.72
				6	0	23.38	18.23	20.38	50	-29.62
	26697	814.7	64QAM	1	0	23.27	18.12	20.27	50	-29.73
				1	5	23.29	18.14	20.29	50	-29.71
				3	2	23.34	18.19	20.34	50	-29.66
				6	0	23.29	18.14	20.29	50	-29.71
	26740	819	64QAM	1	0	23.37	18.22	20.37	50	-29.63
				1	5	23.29	18.14	20.29	50	-29.71
				3	2	23.28	18.13	20.28	50	-29.72
				6	0	23.24	18.09	20.24	50	-29.76
	26783	823.3	64QAM	1	0	23.26	18.11	20.26	50	-29.74
				1	5	23.34	18.19	20.34	50	-29.66
				3	2	23.41	18.26	20.41	50	-29.59
				6	0	23.35	18.20	20.35	50	-29.65

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Antenna gain (dBi) -3

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	23.34	18.19	20.34	50	-29.66
				1	14	23.35	18.20	20.35	50	-29.65
				8	4	23.41	18.26	20.41	50	-29.59
				15	0	23.29	18.14	20.29	50	-29.71
	26740	819	QPSK	1	0	23.29	18.14	20.29	50	-29.71
				1	14	23.31	18.16	20.31	50	-29.69
				8	4	23.26	18.11	20.26	50	-29.74
				15	0	23.27	18.12	20.27	50	-29.73
	26775	822.5	QPSK	1	0	23.38	18.23	20.38	50	-29.62
				1	14	23.36	18.21	20.36	50	-29.64
				8	4	23.26	18.11	20.26	50	-29.74
				15	0	23.28	18.13	20.28	50	-29.72
	26705	815.5	16QAM	1	0	23.28	18.13	20.28	50	-29.72
				1	14	23.28	18.13	20.28	50	-29.72
				8	4	23.34	18.19	20.34	50	-29.66
				15	0	23.27	18.12	20.27	50	-29.73
	26740	819	16QAM	1	0	23.34	18.19	20.34	50	-29.66
				1	14	23.33	18.18	20.33	50	-29.67
				8	4	23.41	18.26	20.41	50	-29.59
				15	0	23.32	18.17	20.32	50	-29.68
	26775	822.5	16QAM	1	0	23.38	18.23	20.38	50	-29.62
				1	14	23.24	18.09	20.24	50	-29.76
				8	4	23.34	18.19	20.34	50	-29.66
				15	0	23.29	18.14	20.29	50	-29.71
	26705	815.5	64QAM	1	0	23.21	18.06	20.21	50	-29.79
				1	14	23.28	18.13	20.28	50	-29.72
				8	4	23.26	18.11	20.26	50	-29.74
				15	0	23.38	18.23	20.38	50	-29.62
	26740	819	64QAM	1	0	23.24	18.09	20.24	50	-29.76
				1	14	23.23	18.08	20.23	50	-29.77
				8	4	23.31	18.16	20.31	50	-29.69
				15	0	23.28	18.13	20.28	50	-29.72
	26775	822.5	64QAM	1	0	23.25	18.10	20.25	50	-29.75
				1	14	23.37	18.22	20.37	50	-29.63
				8	4	23.28	18.13	20.28	50	-29.72
				15	0	23.21	18.06	20.21	50	-29.79

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Antenna gain (dBi) -3

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	23.25	18.10	20.25	50	-29.75
				1	24	23.31	18.16	20.31	50	-29.69
				12	6	23.33	18.18	20.33	50	-29.67
				25	0	23.31	18.16	20.31	50	-29.69
	26740	819	QPSK	1	0	23.35	18.20	20.35	50	-29.65
				1	24	23.32	18.17	20.32	50	-29.68
				12	6	23.34	18.19	20.34	50	-29.66
				25	0	23.38	18.23	20.38	50	-29.62
	26765	821.5	QPSK	1	0	23.28	18.13	20.28	50	-29.72
				1	24	23.35	18.20	20.35	50	-29.65
				12	6	23.38	18.23	20.38	50	-29.62
				25	0	23.25	18.10	20.25	50	-29.75
	26715	816.5	16QAM	1	0	23.34	18.19	20.34	50	-29.66
				1	24	23.31	18.16	20.31	50	-29.69
				12	6	23.28	18.13	20.28	50	-29.72
				25	0	23.34	18.19	20.34	50	-29.66
	26740	819	16QAM	1	0	23.34	18.19	20.34	50	-29.66
				1	24	23.24	18.09	20.24	50	-29.76
				12	6	23.31	18.16	20.31	50	-29.69
				25	0	23.28	18.13	20.28	50	-29.72
	26765	821.5	16QAM	1	0	23.28	18.13	20.28	50	-29.72
				1	24	23.34	18.19	20.34	50	-29.66
				12	6	23.28	18.13	20.28	50	-29.72
				25	0	23.27	18.12	20.27	50	-29.73
	26715	816.5	64QAM	1	0	23.25	18.10	20.25	50	-29.75
				1	24	23.31	18.16	20.31	50	-29.69
				12	6	23.34	18.19	20.34	50	-29.66
				25	0	23.21	18.06	20.21	50	-29.79
	26740	819	64QAM	1	0	23.26	18.11	20.26	50	-29.74
				1	24	23.38	18.23	20.38	50	-29.62
				12	6	23.39	18.24	20.39	50	-29.61
				25	0	23.28	18.13	20.28	50	-29.72
	26765	821.5	64QAM	1	0	23.28	18.13	20.28	50	-29.72
				1	24	23.29	18.14	20.29	50	-29.71
				12	6	23.24	18.09	20.24	50	-29.76
				25	0	23.25	18.10	20.25	50	-29.75

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Antenna gain (dBi) -3

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	23.35	18.20	20.35	50	-29.65
				1	49	23.23	18.08	20.23	50	-29.77
				25	12	23.29	18.14	20.29	50	-29.71
				50	0	23.22	18.07	20.22	50	-29.78
	26740	819	16QAM	1	0	23.34	18.19	20.34	50	-29.66
				1	49	23.21	18.06	20.21	50	-29.79
				25	12	23.24	18.09	20.24	50	-29.76
				50	0	23.19	18.04	20.19	50	-29.81
	26740	819	64QAM	1	0	23.31	18.16	20.31	50	-29.69
				1	49	23.18	18.03	20.18	50	-29.82
				25	12	23.21	18.06	20.21	50	-29.79
				50	0	23.14	17.99	20.14	50	-29.86

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Member of the SGS Group (SGS SA)

Antenna gain (dBi) 0.44

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	17.33	17.77	24	-6.23
				1	24	17.28	17.72	24	-6.28
				12	6	17.32	17.76	24	-6.24
				25	0	17.33	17.77	24	-6.23
	27710	2310	QPSK	1	0	17.40	17.84	24	-6.16
				1	24	17.28	17.72	24	-6.28
				12	6	17.37	17.81	24	-6.19
				25	0	17.30	17.74	24	-6.26
	27735	2312.5	QPSK	1	0	17.25	17.69	24	-6.31
				1	24	17.36	17.80	24	-6.2
				12	6	17.37	17.81	24	-6.19
				25	0	17.35	17.79	24	-6.21
	27685	2307.5	16QAM	1	0	17.40	17.84	24	-6.16
				1	24	17.38	17.82	24	-6.18
				12	6	17.24	17.68	24	-6.32
				25	0	17.30	17.74	24	-6.26
	27710	2310	16QAM	1	0	17.27	17.71	24	-6.29
				1	24	17.30	17.74	24	-6.26
				12	6	17.39	17.83	24	-6.17
				25	0	17.34	17.78	24	-6.22
	27735	2312.5	16QAM	1	0	17.34	17.78	24	-6.22
				1	24	17.42	17.86	24	-6.14
				12	6	17.28	17.72	24	-6.28
				25	0	17.42	17.86	24	-6.14
	27685	2307.5	64QAM	1	0	17.32	17.76	24	-6.24
				1	24	17.33	17.77	24	-6.23
				12	6	17.29	17.73	24	-6.27
				25	0	17.30	17.74	24	-6.26
	27710	2310	64QAM	1	0	17.41	17.85	24	-6.15
				1	24	17.33	17.77	24	-6.23
				12	6	17.35	17.79	24	-6.21
				25	0	17.42	17.86	24	-6.14
	27735	2312.5	64QAM	1	0	17.35	17.79	24	-6.21
				1	24	17.24	17.68	24	-6.32
				12	6	17.27	17.71	24	-6.29
				25	0	17.28	17.72	24	-6.28

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Antenna gain (dBi) 0.44

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	17.48	17.92	24	-6.08
				1	49	17.44	17.88	24	-6.12
				25	12	17.24	17.68	24	-6.32
				50	0	17.25	17.69	24	-6.31
	27710	2310	16QAM	1	0	17.36	17.80	24	-6.2
				1	49	17.42	17.86	24	-6.14
				25	12	17.34	17.78	24	-6.22
				50	0	17.34	17.78	24	-6.22
	27710	2310	64QAM	1	0	17.38	17.82	24	-6.18
				1	49	17.33	17.77	24	-6.23
				25	12	17.31	17.75	24	-6.25
				50	0	17.37	17.81	24	-6.19

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Antenna gain (dBi) -0.37

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	17.72	17.35	33	-15.65
				1	24	17.64	17.27	33	-15.73
				12	6	17.70	17.33	33	-15.67
				25	0	17.82	17.45	33	-15.55
	38000	2595	QPSK	1	0	17.68	17.31	33	-15.69
				1	24	17.64	17.27	33	-15.73
				12	6	17.72	17.35	33	-15.65
				25	0	17.79	17.42	33	-15.58
	38225	2617.5	QPSK	1	0	17.79	17.42	33	-15.58
				1	24	17.73	17.36	33	-15.64
				12	6	17.72	17.35	33	-15.65
				25	0	17.77	17.40	33	-15.6
	37775	2572.5	16QAM	1	0	17.72	17.35	33	-15.65
				1	24	17.82	17.45	33	-15.55
				12	6	17.70	17.33	33	-15.67
				25	0	17.74	17.37	33	-15.63
	38000	2595	16QAM	1	0	17.81	17.44	33	-15.56
				1	24	17.75	17.38	33	-15.62
				12	6	17.76	17.39	33	-15.61
				25	0	17.72	17.35	33	-15.65
	38225	2617.5	16QAM	1	0	17.83	17.46	33	-15.54
				1	24	17.75	17.38	33	-15.62
				12	6	17.79	17.42	33	-15.58
				25	0	17.79	17.42	33	-15.58
	37775	2572.5	64QAM	1	0	17.70	17.33	33	-15.67
				1	24	17.67	17.30	33	-15.7
				12	6	17.68	17.31	33	-15.69
				25	0	17.78	17.41	33	-15.59
	38000	2595	64QAM	1	0	17.64	17.27	33	-15.73
				1	24	17.72	17.35	33	-15.65
				12	6	17.73	17.36	33	-15.64
				25	0	17.68	17.31	33	-15.69
	38225	2617.5	64QAM	1	0	17.77	17.40	33	-15.6
				1	24	17.74	17.37	33	-15.63
				12	6	17.73	17.36	33	-15.64
				25	0	17.71	17.34	33	-15.66

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Antenna gain (dBi) -0.37

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	17.83	17.46	33	-15.54
				1	49	17.68	17.31	33	-15.69
				25	12	17.70	17.33	33	-15.67
				50	0	17.81	17.44	33	-15.56
	38000	2595	QPSK	1	0	17.80	17.43	33	-15.57
				1	49	17.82	17.45	33	-15.55
				25	12	17.68	17.31	33	-15.69
				50	0	17.70	17.33	33	-15.67
	38200	2615	QPSK	1	0	17.67	17.30	33	-15.7
				1	49	17.82	17.45	33	-15.55
				25	12	17.68	17.31	33	-15.69
				50	0	17.80	17.43	33	-15.57
	37800	2575	16QAM	1	0	17.77	17.40	33	-15.6
				1	49	17.79	17.42	33	-15.58
				25	12	17.72	17.35	33	-15.65
				50	0	17.69	17.32	33	-15.68
	38000	2595	16QAM	1	0	17.69	17.32	33	-15.68
				1	49	17.79	17.42	33	-15.58
				25	12	17.77	17.40	33	-15.6
				50	0	17.76	17.39	33	-15.61
	38200	2615	16QAM	1	0	17.72	17.35	33	-15.65
				1	49	17.71	17.34	33	-15.66
				25	12	17.73	17.36	33	-15.64
				50	0	17.70	17.33	33	-15.67
	37800	2575	64QAM	1	0	17.77	17.40	33	-15.6
				1	49	17.79	17.42	33	-15.58
				25	12	17.77	17.40	33	-15.6
				50	0	17.65	17.28	33	-15.72
	38000	2595	64QAM	1	0	17.65	17.28	33	-15.72
				1	49	17.70	17.33	33	-15.67
				25	12	17.68	17.31	33	-15.69
				50	0	17.76	17.39	33	-15.61
	38200	2615	64QAM	1	0	17.80	17.43	33	-15.57
				1	49	17.70	17.33	33	-15.67
				25	12	17.80	17.43	33	-15.57
				50	0	17.70	17.33	33	-15.67

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Antenna gain (dBi) -0.37

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	17.78	17.41	33	-15.59
				1	74	17.65	17.28	33	-15.72
				36	19	17.77	17.40	33	-15.6
				75	0	17.74	17.37	33	-15.63
	38000	2595	QPSK	1	0	17.69	17.32	33	-15.68
				1	74	17.72	17.35	33	-15.65
				36	19	17.69	17.32	33	-15.68
				75	0	17.80	17.43	33	-15.57
	38175	2612.5	QPSK	1	0	17.78	17.41	33	-15.59
				1	74	17.83	17.46	33	-15.54
				36	19	17.69	17.32	33	-15.68
				75	0	17.80	17.43	33	-15.57
	37825	2577.5	16QAM	1	0	17.72	17.35	33	-15.65
				1	74	17.83	17.46	33	-15.54
				36	19	17.81	17.44	33	-15.56
				75	0	17.82	17.45	33	-15.55
	38000	2595	16QAM	1	0	17.78	17.41	33	-15.59
				1	74	17.69	17.32	33	-15.68
				36	19	17.76	17.39	33	-15.61
				75	0	17.70	17.33	33	-15.67
	38175	2612.5	16QAM	1	0	17.81	17.44	33	-15.56
				1	74	17.80	17.43	33	-15.57
				36	19	17.73	17.36	33	-15.64
				75	0	17.78	17.41	33	-15.59
	37825	2577.5	64QAM	1	0	17.67	17.30	33	-15.7
				1	74	17.81	17.44	33	-15.56
				36	19	17.83	17.46	33	-15.54
				75	0	17.70	17.33	33	-15.67
	38000	2595	64QAM	1	0	17.71	17.34	33	-15.66
				1	74	17.68	17.31	33	-15.69
				36	19	17.64	17.27	33	-15.73
				75	0	17.67	17.30	33	-15.7
	38175	2612.5	64QAM	1	0	17.72	17.35	33	-15.65
				1	74	17.68	17.31	33	-15.69
				36	19	17.83	17.46	33	-15.54
				75	0	17.76	17.39	33	-15.61

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Antenna gain (dBi) -0.37

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	17.99	17.62	33	-15.38
				1	99	17.77	17.40	33	-15.6
				50	25	17.77	17.40	33	-15.6
				100	0	17.81	17.44	33	-15.56
	38000	2595	QPSK	1	0	17.93	17.56	33	-15.44
				1	99	17.78	17.41	33	-15.59
				50	25	17.73	17.36	33	-15.64
				100	0	17.73	17.36	33	-15.64
	38150	2610	QPSK	1	0	17.96	17.59	33	-15.41
				1	99	17.83	17.46	33	-15.54
				50	25	17.73	17.36	33	-15.64
				100	0	17.68	17.31	33	-15.69
	37850	2580	16QAM	1	0	17.87	17.50	33	-15.5
				1	99	17.91	17.54	33	-15.46
				50	25	17.86	17.49	33	-15.51
				100	0	17.85	17.48	33	-15.52
	38000	2595	16QAM	1	0	17.87	17.50	33	-15.5
				1	99	17.93	17.56	33	-15.44
				50	25	17.82	17.45	33	-15.55
				100	0	17.80	17.43	33	-15.57
	38150	2610	16QAM	1	0	17.76	17.39	33	-15.61
				1	99	17.73	17.36	33	-15.64
				50	25	17.86	17.49	33	-15.51
				100	0	17.78	17.41	33	-15.59
	37850	2580	64QAM	1	0	17.77	17.40	33	-15.6
				1	99	17.81	17.44	33	-15.56
				50	25	17.78	17.41	33	-15.59
				100	0	17.74	17.37	33	-15.63
	38000	2595	64QAM	1	0	17.83	17.46	33	-15.54
				1	99	17.72	17.35	33	-15.65
				50	25	17.81	17.44	33	-15.56
				100	0	17.70	17.33	33	-15.67
	38150	2610	64QAM	1	0	17.78	17.41	33	-15.59
				1	99	17.71	17.34	33	-15.66
				50	25	17.82	17.45	33	-15.55
				100	0	17.70	17.33	33	-15.67

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Antenna gain (dBi) -0.19

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	17.74	17.55	33	-15.45
				1	24	17.84	17.65	33	-15.35
				12	6	17.91	17.72	33	-15.28
				25	0	17.88	17.69	33	-15.31
	40620	2593	QPSK	1	0	17.92	17.73	33	-15.27
				1	24	17.79	17.60	33	-15.4
				12	6	17.81	17.62	33	-15.38
				25	0	17.82	17.63	33	-15.37
	41565	2687.5	QPSK	1	0	17.81	17.82	33	-15.18
				1	24	17.84	17.65	33	-15.35
				12	6	17.84	17.65	33	-15.35
				25	0	17.82	17.63	33	-15.37
	39675	2498.5	16QAM	1	0	17.79	17.60	33	-15.4
				1	24	17.78	17.59	33	-15.41
				12	6	17.79	17.60	33	-15.4
				25	0	17.76	17.57	33	-15.43
	40620	2593	16QAM	1	0	17.77	17.58	33	-15.42
				1	24	17.81	17.62	33	-15.38
				12	6	17.90	17.71	33	-15.29
				25	0	17.82	17.63	33	-15.37
	41565	2687.5	16QAM	1	0	17.84	17.65	33	-15.35
				1	24	17.83	17.64	33	-15.36
				12	6	17.92	17.73	33	-15.27
				25	0	17.92	17.73	33	-15.27
	39675	2498.5	64QAM	1	0	17.89	17.70	33	-15.3
				1	24	17.82	17.63	33	-15.37
				12	6	17.79	17.60	33	-15.4
				25	0	17.86	17.67	33	-15.33
	40620	2593	64QAM	1	0	17.89	17.70	33	-15.3
				1	24	17.91	17.72	33	-15.28
				12	6	17.82	17.63	33	-15.37
				25	0	17.90	17.71	33	-15.29
	41565	2687.5	64QAM	1	0	17.78	17.59	33	-15.41
				1	24	17.92	17.73	33	-15.27
				12	6	17.85	17.66	33	-15.34
				25	0	17.89	17.70	33	-15.3

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Antenna gain (dBi) -0.19

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	17.75	17.56	33	-15.44
				1	49	17.89	17.70	33	-15.3
				25	12	17.89	17.70	33	-15.3
				50	0	17.88	17.69	33	-15.31
	40620	2593	QPSK	1	0	17.90	17.71	33	-15.29
				1	49	17.79	17.60	33	-15.4
				25	12	17.91	17.72	33	-15.28
				50	0	17.82	17.63	33	-15.37
	41540	2685	QPSK	1	0	17.88	17.69	33	-15.31
				1	49	17.77	17.58	33	-15.42
				25	12	17.86	17.67	33	-15.33
				50	0	17.84	17.65	33	-15.35
	39700	2501	16QAM	1	0	17.91	17.72	33	-15.28
				1	49	17.87	17.68	33	-15.32
				25	12	17.78	17.59	33	-15.41
				50	0	17.81	17.62	33	-15.38
	40620	2593	16QAM	1	0	17.75	17.56	33	-15.44
				1	49	17.81	17.62	33	-15.38
				25	12	17.75	17.56	33	-15.44
				50	0	17.91	17.72	33	-15.28
	41540	2685	16QAM	1	0	17.91	17.72	33	-15.28
				1	49	17.80	17.61	33	-15.39
				25	12	17.77	17.58	33	-15.42
				50	0	17.80	17.61	33	-15.39
	39700	2501	64QAM	1	0	17.80	17.61	33	-15.39
				1	49	17.80	17.61	33	-15.39
				25	12	17.84	17.65	33	-15.35
				50	0	17.90	17.71	33	-15.29
	40620	2593	64QAM	1	0	17.77	17.58	33	-15.42
				1	49	17.81	17.62	33	-15.38
				25	12	17.86	17.67	33	-15.33
				50	0	17.92	17.73	33	-15.27
	41540	2685	64QAM	1	0	17.92	17.73	33	-15.27
				1	49	17.78	17.59	33	-15.41
				25	12	17.90	17.71	33	-15.29
				50	0	17.90	17.71	33	-15.29

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Antenna gain (dBi) -0.19

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	17.81	17.62	33	-15.38
				1	74	17.93	17.74	33	-15.26
				36	18	17.89	17.70	33	-15.3
				75	0	17.85	17.66	33	-15.34
	40620	2593	QPSK	1	0	17.82	17.63	33	-15.37
				1	74	17.86	17.67	33	-15.33
				36	18	17.90	17.71	33	-15.29
				75	0	17.78	17.59	33	-15.41
	41515	2682.5	QPSK	1	0	17.89	17.70	33	-15.3
				1	74	17.75	17.56	33	-15.44
				36	18	17.92	17.73	33	-15.27
				75	0	17.77	17.58	33	-15.42
	39725	2503.5	16QAM	1	0	17.82	17.63	33	-15.37
				1	74	17.80	17.61	33	-15.39
				36	18	17.80	17.61	33	-15.39
				75	0	17.80	17.61	33	-15.39
	40620	2593	16QAM	1	0	17.90	17.71	33	-15.29
				1	74	17.81	17.62	33	-15.38
				36	18	17.87	17.68	33	-15.32
				75	0	17.86	17.67	33	-15.33
	41515	2682.5	16QAM	1	0	17.74	17.55	33	-15.45
				1	74	17.81	17.62	33	-15.38
				36	18	17.93	17.74	33	-15.26
				75	0	17.89	17.70	33	-15.3
	39725	2503.5	64QAM	1	0	17.75	17.56	33	-15.44
				1	74	17.89	17.70	33	-15.3
				36	18	17.91	17.72	33	-15.28
				75	0	17.84	17.65	33	-15.35
	40620	2593	64QAM	1	0	17.82	17.63	33	-15.37
				1	74	17.93	17.74	33	-15.26
				36	18	17.89	17.70	33	-15.3
				75	0	17.85	17.66	33	-15.34
	41515	2682.5	64QAM	1	0	17.76	17.57	33	-15.43
				1	74	17.87	17.68	33	-15.32
				36	18	17.82	17.63	33	-15.37
				75	0	17.74	17.55	33	-15.45

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Antenna gain (dBi) -0.19

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	17.95	17.76	33	-15.24
				1	99	17.92	17.73	33	-15.27
				50	25	17.87	17.68	33	-15.32
				100	0	17.76	17.57	33	-15.43
	40620	2593	QPSK	1	0	17.98	17.79	33	-15.21
				1	99	17.83	17.64	33	-15.36
				50	25	17.77	17.58	33	-15.42
				100	0	17.68	17.49	33	-15.51
	41490	2680	QPSK	1	0	17.97	17.78	33	-15.22
				1	99	17.88	17.69	33	-15.31
				50	25	17.76	17.57	33	-15.43
				100	0	17.78	17.59	33	-15.41
	39750	2506	16QAM	1	0	17.82	17.63	33	-15.37
				1	99	17.89	17.70	33	-15.3
				50	25	17.84	17.65	33	-15.35
				100	0	17.87	17.68	33	-15.32
	40620	2593	16QAM	1	0	17.75	17.56	33	-15.44
				1	99	17.93	17.74	33	-15.26
				50	25	17.83	17.64	33	-15.36
				100	0	17.84	17.65	33	-15.35
	41490	2680	16QAM	1	0	17.89	17.70	33	-15.3
				1	99	17.87	17.68	33	-15.32
				50	25	17.88	17.69	33	-15.31
				100	0	17.90	17.71	33	-15.29
	39750	2506	64QAM	1	0	17.91	17.72	33	-15.28
				1	99	17.90	17.71	33	-15.29
				50	25	17.75	17.56	33	-15.44
				100	0	17.76	17.57	33	-15.43
	40620	2593	64QAM	1	0	17.76	17.57	33	-15.43
				1	99	17.81	17.62	33	-15.38
				50	25	17.83	17.64	33	-15.36
				100	0	17.90	17.71	33	-15.29
41490	2680	64QAM	1	0	17.76	17.57	33	-15.43	
			1	99	17.77	17.58	33	-15.42	
			50	25	17.75	17.56	33	-15.44	
			100	0	17.87	17.68	33	-15.32	

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Antenna gain (dBi) -0.21

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	19.47	19.26	30	-10.74
				1	5	19.36	19.15	30	-10.85
				3	2	19.45	19.24	30	-10.76
				6	0	19.43	19.22	30	-10.78
	132322	1745	QPSK	1	0	19.43	19.22	30	-10.78
				1	5	19.43	19.22	30	-10.78
				3	2	19.31	19.10	30	-10.9
				6	0	19.34	19.13	30	-10.87
	132665	1779.3	QPSK	1	0	19.36	19.15	30	-10.85
				1	5	19.36	19.15	30	-10.85
				3	2	19.31	19.10	30	-10.9
				6	0	19.28	19.07	30	-10.93
	131979	1710.7	16QAM	1	0	19.38	19.17	30	-10.83
				1	5	19.36	19.15	30	-10.85
				3	2	19.29	19.08	30	-10.92
				6	0	19.47	19.26	30	-10.74
	132322	1745	16QAM	1	0	19.34	19.13	30	-10.87
				1	5	19.36	19.15	30	-10.85
				3	2	19.33	19.12	30	-10.88
				6	0	19.40	19.19	30	-10.81
	132665	1779.3	16QAM	1	0	19.41	19.20	30	-10.8
				1	5	19.39	19.18	30	-10.82
				3	2	19.35	19.14	30	-10.86
				6	0	19.42	19.21	30	-10.79
	131979	1710.7	64QAM	1	0	19.35	19.14	30	-10.86
				1	5	19.31	19.10	30	-10.9
				3	2	19.31	19.10	30	-10.9
				6	0	19.34	19.13	30	-10.87
	132322	1745	64QAM	1	0	19.38	19.17	30	-10.83
				1	5	19.45	19.24	30	-10.76
				3	2	19.44	19.23	30	-10.77
				6	0	19.34	19.13	30	-10.87
	132665	1779.3	64QAM	1	0	19.36	19.15	30	-10.85
				1	5	19.43	19.22	30	-10.78
				3	2	19.30	19.09	30	-10.91
				6	0	19.46	19.25	30	-10.75

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Antenna gain (dBi) -0.21

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	19.30	19.09	30	-10.91
				1	14	19.44	19.23	30	-10.77
				8	4	19.30	19.09	30	-10.91
				15	0	19.35	19.14	30	-10.86
	132322	1745	QPSK	1	0	19.32	19.11	30	-10.89
				1	14	19.36	19.15	30	-10.85
				8	4	19.32	19.11	30	-10.89
				15	0	19.37	19.16	30	-10.84
	132657	1778.5	QPSK	1	0	19.38	19.17	30	-10.83
				1	14	19.30	19.09	30	-10.91
				8	4	19.32	19.11	30	-10.89
				15	0	19.39	19.18	30	-10.82
	131987	1711.5	16QAM	1	0	19.37	19.16	30	-10.84
				1	14	19.37	19.16	30	-10.84
				8	4	19.29	19.08	30	-10.92
				15	0	19.40	19.19	30	-10.81
	132322	1745	16QAM	1	0	19.36	19.15	30	-10.85
				1	14	19.36	19.15	30	-10.85
				8	4	19.43	19.22	30	-10.78
				15	0	19.32	19.11	30	-10.89
	132657	1778.5	16QAM	1	0	19.43	19.22	30	-10.78
				1	14	19.44	19.23	30	-10.77
				8	4	19.39	19.18	30	-10.82
				15	0	19.39	19.18	30	-10.82
	131987	1711.5	64QAM	1	0	19.30	19.09	30	-10.91
				1	14	19.31	19.10	30	-10.9
				8	4	19.38	19.17	30	-10.83
				15	0	19.34	19.13	30	-10.87
	132322	1745	64QAM	1	0	19.43	19.22	30	-10.78
				1	14	19.30	19.09	30	-10.91
				8	4	19.43	19.22	30	-10.78
				15	0	19.41	19.20	30	-10.8
132657	1778.5	64QAM	1	0	19.46	19.25	30	-10.75	
			1	14	19.38	19.17	30	-10.83	
			8	4	19.35	19.14	30	-10.86	
			15	0	19.43	19.22	30	-10.78	

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Antenna gain (dBi) -0.21

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	19.28	19.07	30	-10.93
				1	24	19.47	19.26	30	-10.74
				12	6	19.33	19.12	30	-10.88
				25	0	19.40	19.19	30	-10.81
	132322	1745	QPSK	1	0	19.35	19.14	30	-10.86
				1	24	19.39	19.18	30	-10.82
				12	6	19.30	19.09	30	-10.91
				25	0	19.28	19.07	30	-10.93
	132647	1777.5	QPSK	1	0	19.36	19.15	30	-10.85
				1	24	19.35	19.14	30	-10.86
				12	6	19.30	19.09	30	-10.91
				25	0	19.44	19.23	30	-10.77
	131997	1712.5	16QAM	1	0	19.37	19.16	30	-10.84
				1	24	19.41	19.20	30	-10.8
				12	6	19.42	19.21	30	-10.79
				25	0	19.37	19.16	30	-10.84
	132322	1745	16QAM	1	0	19.47	19.26	30	-10.74
				1	24	19.37	19.16	30	-10.84
				12	6	19.30	19.09	30	-10.91
				25	0	19.44	19.23	30	-10.77
	132647	1777.5	16QAM	1	0	19.34	19.13	30	-10.87
				1	24	19.41	19.20	30	-10.8
				12	6	19.40	19.19	30	-10.81
				25	0	19.30	19.09	30	-10.91
	131997	1712.5	64QAM	1	0	19.30	19.09	30	-10.91
				1	24	19.38	19.17	30	-10.83
				12	6	19.35	19.14	30	-10.86
				25	0	19.41	19.20	30	-10.8
	132322	1745	64QAM	1	0	19.44	19.23	30	-10.77
				1	24	19.40	19.19	30	-10.81
				12	6	19.46	19.25	30	-10.75
				25	0	19.44	19.23	30	-10.77
	132647	1777.5	64QAM	1	0	19.44	19.23	30	-10.77
				1	24	19.35	19.14	30	-10.86
				12	6	19.29	19.08	30	-10.92
				25	0	19.31	19.10	30	-10.9

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Antenna gain (dBi) -0.21

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	19.37	19.16	30	-10.84
				1	49	19.32	19.11	30	-10.89
				25	12	19.41	19.20	30	-10.8
				50	0	19.47	19.26	30	-10.74
	132322	1745	QPSK	1	0	19.31	19.10	30	-10.9
				1	49	19.46	19.25	30	-10.75
				25	12	19.40	19.19	30	-10.81
				50	0	19.32	19.11	30	-10.89
	132622	1775	QPSK	1	0	19.34	19.13	30	-10.87
				1	49	19.44	19.23	30	-10.77
				25	12	19.40	19.19	30	-10.81
				50	0	19.46	19.25	30	-10.75
	132022	1715	16QAM	1	0	19.34	19.13	30	-10.87
				1	49	19.38	19.17	30	-10.83
				25	12	19.44	19.23	30	-10.77
				50	0	19.29	19.08	30	-10.92
	132322	1745	16QAM	1	0	19.31	19.10	30	-10.9
				1	49	19.37	19.16	30	-10.84
				25	12	19.29	19.08	30	-10.92
				50	0	19.29	19.08	30	-10.92
	132622	1775	16QAM	1	0	19.36	19.15	30	-10.85
				1	49	19.39	19.18	30	-10.82
				25	12	19.32	19.11	30	-10.89
				50	0	19.38	19.17	30	-10.83
	132022	1715	64QAM	1	0	19.30	19.09	30	-10.91
				1	49	19.44	19.23	30	-10.77
				25	12	19.38	19.17	30	-10.83
				50	0	19.37	19.16	30	-10.84
	132322	1745	64QAM	1	0	19.34	19.13	30	-10.87
				1	49	19.33	19.12	30	-10.88
				25	12	19.32	19.11	30	-10.89
				50	0	19.44	19.23	30	-10.77
132622	1775	64QAM	1	0	19.46	19.25	30	-10.75	
			1	49	19.39	19.18	30	-10.82	
			25	12	19.32	19.11	30	-10.89	
			50	0	19.30	19.09	30	-10.91	

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Antenna gain (dBi) -0.21

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	19.46	19.25	30	-10.75
				1	74	19.28	19.07	30	-10.93
				36	18	19.46	19.25	30	-10.75
				75	0	19.43	19.22	30	-10.78
	132322	1745	QPSK	1	0	19.34	19.13	30	-10.87
				1	74	19.43	19.22	30	-10.78
				36	18	19.36	19.15	30	-10.85
				75	0	19.32	19.11	30	-10.89
	132597	1772.5	QPSK	1	0	19.29	19.08	30	-10.92
				1	74	19.33	19.12	30	-10.88
				36	18	19.36	19.15	30	-10.85
				75	0	19.45	19.24	30	-10.76
	132047	1717.5	16QAM	1	0	19.46	19.25	30	-10.75
				1	74	19.46	19.25	30	-10.75
				36	18	19.33	19.12	30	-10.88
				75	0	19.45	19.24	30	-10.76
	132322	1745	16QAM	1	0	19.34	19.13	30	-10.87
				1	74	19.29	19.08	30	-10.92
				36	18	19.36	19.15	30	-10.85
				75	0	19.34	19.13	30	-10.87
	132597	1772.5	16QAM	1	0	19.39	19.18	30	-10.82
				1	74	19.34	19.13	30	-10.87
				36	18	19.46	19.25	30	-10.75
				75	0	19.44	19.23	30	-10.77
	132047	1717.5	64QAM	1	0	19.30	19.09	30	-10.91
				1	74	19.45	19.24	30	-10.76
				36	18	19.43	19.22	30	-10.78
				75	0	19.31	19.10	30	-10.9
	132322	1745	64QAM	1	0	19.37	19.16	30	-10.84
				1	74	19.32	19.11	30	-10.89
				36	18	19.34	19.13	30	-10.87
				75	0	19.46	19.25	30	-10.75
	132597	1772.5	64QAM	1	0	19.30	19.09	30	-10.91
				1	74	19.33	19.12	30	-10.88
				36	18	19.40	19.19	30	-10.81
				75	0	19.31	19.10	30	-10.9

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Antenna gain (dBi) -0.21

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	19.49	19.28	30	-10.72
				1	99	19.39	19.18	30	-10.82
				50	25	19.33	19.12	30	-10.88
				100	0	19.38	19.17	30	-10.83
	132322	1745	QPSK	1	0	19.40	19.19	30	-10.81
				1	99	19.47	19.26	30	-10.74
				50	25	19.44	19.23	30	-10.77
				100	0	19.42	19.21	30	-10.79
	132572	1770	QPSK	1	0	19.48	19.27	30	-10.73
				1	99	19.43	19.22	30	-10.78
				50	25	19.44	19.23	30	-10.77
				100	0	19.39	19.18	30	-10.82
	132072	1720	16QAM	1	0	19.41	19.20	30	-10.8
				1	99	19.33	19.12	30	-10.88
				50	25	19.44	19.23	30	-10.77
				100	0	19.34	19.13	30	-10.87
	132322	1745	16QAM	1	0	19.46	19.25	30	-10.75
				1	99	19.41	19.20	30	-10.8
				50	25	19.32	19.11	30	-10.89
				100	0	19.44	19.23	30	-10.77
	132572	1770	16QAM	1	0	19.37	19.16	30	-10.84
				1	99	19.39	19.18	30	-10.82
				50	25	19.45	19.24	30	-10.76
				100	0	19.42	19.21	30	-10.79
	132072	1720	64QAM	1	0	19.37	19.16	30	-10.84
				1	99	19.40	19.19	30	-10.81
				50	25	19.28	19.07	30	-10.93
				100	0	19.42	19.21	30	-10.79
	132322	1745	64QAM	1	0	19.47	19.26	30	-10.74
				1	99	19.42	19.21	30	-10.79
				50	25	19.42	19.21	30	-10.79
				100	0	19.29	19.08	30	-10.92
	132572	1770	64QAM	1	0	19.31	19.10	30	-10.9
				1	99	19.31	19.10	30	-10.9
				50	25	19.35	19.14	30	-10.86
				100	0	19.34	19.13	30	-10.87

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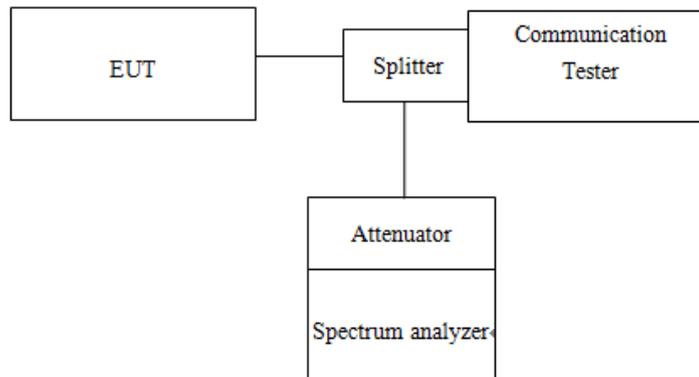
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7. OCCUPIED BANDWIDTH MEASUREMENT

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%.

7.4. Measurement Equipment Used

Conducted Emission (measured at antenna port) Test Site					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Block	PASTERNAK	PE8210	RF256	02/26/2019	02/25/2020
Spectrum Analyzer	Agilent	N9010A	MY53400256	11/21/2018	11/20/2019
DC Power Supply	Agilent	E3640A	MY53130054	09/03/2018	09/02/2019
TEMPERATURE	TEMPERATURE	HTC-1	EC-HY-01	04/18/2019	04/17/2020
Splitter	Woken	DOM35LW1A2	RF83	02/26/2019	02/25/2020
Attenuator	Marvelous	MVE2213-10	RF80	02/26/2019	02/25/2020
Radio Communication Analyser	Anritsu	MT8820C	6201465317	01/16/2019	01/15/2020

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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	4.05790	4.05810	4.05720	4.604	4.626	4.593
1880.00	9400	4.06860	4.05910	4.04940	4.587	4.574	4.576
1907.60	9538	4.07350	4.06150	4.06150	4.613	4.610	4.585

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	4.06820	4.05300	4.06250	4.598	4.589	4.598
1732.60	1413	4.07450	4.06590	4.06410	4.633	4.589	4.608
1752.60	1513	4.06650	4.06010	4.07400	4.602	4.602	4.610

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	4.06840	4.07270	4.07080	4.606	4.607	4.594
836.60	4183	4.05560	4.05890	4.05800	4.591	4.577	4.577
846.60	4233	4.07610	4.08220	4.08030	4.613	4.601	4.629

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	1.1055	1.1037	1.1086	1.251	1.252	1.261
1880.0	18900	1.1037	1.1067	1.1064	1.258	1.260	1.259
1909.3	19193	1.1083	1.1140	1.1035	1.257	1.254	1.259

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	2.7283	2.7252	2.7308	3.010	3.021	3.017
1880.0	18900	2.7319	2.7242	2.7131	3.011	3.003	3.031
1908.5	19185	2.7328	2.7181	2.7219	3.148	3.024	3.019

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	4.5274	4.5191	4.5270	4.980	5.015	4.966
1880.0	18900	4.5162	4.5080	4.5108	4.967	4.947	4.966
1907.5	19175	4.5379	4.5118	4.5134	5.054	4.975	5.101

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	9.0795	9.1180	9.0777	10.490	10.581	10.467
1880.0	18900	9.0790	9.0642	9.0578	10.368	10.442	10.925
1905.0	19150	9.0659	9.0402	9.0536	10.487	10.425	10.468

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	13.541	13.562	13.561	15.697	15.544	15.752
1880.0	18900	13.549	13.555	13.534	15.617	15.736	15.654
1902.5	19125	13.500	13.487	13.458	15.792	15.576	15.547

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	18.047	18.035	18.005	20.122	20.008	20.032
1880.0	18900	18.026	18.016	17.995	20.020	20.275	19.992
1900.0	19100	17.913	17.902	17.919	20.065	19.814	20.298

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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	1.1097	1.1107	1.1079	1.264	1.263	1.254
1732.5	20175	1.1035	1.1058	1.1074	1.263	1.260	1.257
1754.3	20393	1.1105	1.1055	1.1143	1.257	1.263	1.262

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	2.7185	2.7308	2.7262	3.011	3.018	3.031
1732.5	20175	2.7211	2.7276	2.7153	3.032	3.015	3.005
1753.5	20385	2.7169	2.7136	2.7142	3.015	3.017	3.020

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	4.5311	4.5247	4.5159	4.963	4.933	4.989
1732.5	20175	4.5178	4.5103	4.5200	4.963	4.971	4.952
1752.5	20375	4.5255	4.5100	4.5195	4.974	4.957	4.959

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	9.0612	9.0951	9.0896	10.442	10.573	10.542
1732.5	20175	9.0719	9.0851	9.0771	10.515	10.487	10.536
1750.0	20350	9.0861	9.0624	9.0914	10.526	10.491	10.470

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	13.505	13.533	13.506	15.414	15.680	15.574
1732.5	20175	13.548	13.549	13.522	15.811	15.834	15.555
1747.5	20325	13.572	13.568	13.571	15.504	15.826	15.512

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	17.948	17.954	17.936	19.902	19.888	19.927
1732.5	20175	18.016	18.041	18.017	20.020	20.108	19.973
1745.0	20300	18.065	18.068	18.076	20.083	20.227	20.344

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	1.1083	1.1088	1.1057	1.258	1.259	1.258
836.5	20525	1.1032	1.1123	1.1093	1.263	1.259	1.259
848.3	20643	1.1077	1.1165	1.1042	1.258	1.262	1.260

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	2.7401	2.7169	2.7173	3.012	3.017	3.014
836.5	20525	2.7181	2.7204	2.7201	3.019	3.011	3.000
847.5	20635	2.7299	2.7296	2.7163	3.021	3.026	3.016

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	4.5225	4.5292	4.5077	4.949	4.983	4.951
836.5	20525	4.5229	4.5173	4.5187	5.003	4.998	4.978
846.5	20625	4.5389	4.5174	4.5289	4.998	4.980	4.948

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	9.1097	9.0761	9.0991	10.627	10.546	10.543
836.5	20525	9.0522	9.0415	9.0472	10.437	10.429	10.506
844.0	20600	9.1136	9.1156	9.1206	10.586	10.666	10.554

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	4.5213	4.5093	4.5175	4.945	4.965	4.989
2535.0	21100	4.5190	4.5193	4.5166	5.025	4.954	4.929
2567.5	21425	4.5222	4.5212	4.5172	4.963	4.979	4.965

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	9.0947	9.0781	9.0833	10.523	10.583	10.580
2535.0	21100	9.0718	9.0625	9.0896	10.536	10.455	10.606
2565.0	21400	9.0509	9.0481	9.0631	10.456	10.472	10.525

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	13.571	13.574	13.562	15.898	15.937	15.647
2535.0	21100	13.544	13.531	13.511	15.522	15.644	15.595
2562.5	21375	13.528	13.514	13.529	15.715	15.537	15.654

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	18.083	18.099	18.066	20.293	20.537	20.670
2535.0	21100	17.982	18.003	17.993	20.115	20.075	19.872
2560.0	21350	17.981	18.031	17.997	19.982	20.095	20.204

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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	1.1078	1.1012	1.1037	1.257	1.250	1.255
707.5	23095	1.1010	1.1012	1.1019	1.253	1.252	1.253
715.3	23173	1.1047	1.1075	1.1043	1.253	1.254	1.249

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	2.7162	2.7123	2.7180	3.006	2.996	3.008
707.5	23095	2.7287	2.7237	2.7189	3.010	3.002	3.007
714.5	23165	2.7283	2.7209	2.7170	3.001	2.997	3.001

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	4.5034	4.5081	4.5086	4.964	4.935	4.952
707.5	23095	4.5129	4.5059	4.5063	4.925	4.945	4.939
713.5	23155	4.5073	4.5069	4.5009	4.925	4.941	4.936

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	9.0813	9.0943	9.0841	10.443	10.531	10.631
707.5	23095	9.0979	9.0816	9.0965	10.528	10.508	10.455
711.0	23130	9.0097	9.0065	9.0131	10.525	10.471	10.534

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	4.5371	4.5165	4.5226	4.954	4.930	5.006
782.0	23230	4.5034	4.4972	4.4943	4.933	4.938	4.938
784.5	23255	4.5060	4.5002	4.5085	4.913	4.960	4.953

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	9.009	8.989	9.014	10.316	10.418	10.419

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	4.5006	4.5042	4.5066	4.955	4.949	4.947
793.0	23330	4.5236	4.5018	4.5025	4.946	4.930	4.917
795.5	23355	4.5119	4.5067	4.5228	4.987	5.025	4.960

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	9.045	9.021	8.993	10.536	10.325	10.389

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	4.5290	4.5025	4.5195	4.991	4.951	4.952
710.0	23790	4.5148	4.5120	4.5052	4.974	4.946	4.940
713.5	23825	4.5171	4.5029	4.5066	4.972	5.010	4.965

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	9.0493	9.0550	9.0529	10.450	10.388	10.471
710.0	23790	9.0221	9.0400	9.0298	10.364	10.476	10.471
711.0	23800	9.0027	9.0162	9.0236	10.387	10.469	10.381

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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	1.1017	1.0998	1.0983	1.256	1.258	1.250
1882.5	26365	1.1022	1.1048	1.1068	1.255	1.253	1.250
1914.3	26683	1.1059	0.0000	0.0000	1.251	0.000	0.000

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	2.7175	2.7142	2.7145	2.997	3.008	3.004
1882.5	26365	2.7087	2.7185	2.7144	2.999	2.993	3.004
1913.5	26675	2.7108	2.7152	2.7131	3.006	2.997	3.002

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	4.5145	4.5138	4.5154	4.957	4.905	4.936
1882.5	26365	4.5210	4.5122	4.5129	4.972	4.953	4.955
1912.5	26665	4.5110	4.5099	4.5003	4.963	4.925	4.905

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	9.0819	9.0279	9.0601	10.483	10.362	10.550
1882.5	26365	9.0641	9.0307	9.0579	10.475	10.475	10.471
1910.0	26640	9.0698	9.0684	9.0683	10.465	10.415	10.517

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	13.549	13.518	13.511	15.695	15.894	15.781
1882.5	26365	13.534	13.518	13.543	15.603	15.525	15.557
1907.5	26615	13.547	13.538	13.531	15.605	15.888	15.574

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	18.0270	18.1020	17.9900	20.111	20.341	19.992
1882.5	26365	18.0050	18.0100	17.9660	20.087	20.056	19.936
1905.0	26590	18.0030	18.0100	17.9780	20.064	19.901	19.922

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	1.1066	1.1033	1.1022	1.253	1.257	1.255
836.5	26915	1.1071	1.1020	1.1036	1.250	1.253	1.255
848.3	27033	1.0997	1.1102	1.1088	1.250	1.253	1.258

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	2.7131	2.7128	2.7223	2.991	3.007	3.004
836.5	26915	2.7188	2.7144	2.7169	2.998	3.005	2.990
847.5	27025	2.7289	2.7181	2.7179	3.019	2.998	3.001

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	4.5139	4.5065	4.4979	4.979	4.941	4.931
836.5	26915	4.5280	4.5123	4.5133	4.974	4.961	4.929
846.5	27015	4.5340	4.5189	4.5277	4.940	4.955	4.949

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	9.0709	9.0551	9.0762	10.558	10.504	10.495
836.5	26915	9.0508	9.0401	9.0316	10.332	10.539	10.508
844.0	26990	9.0981	9.0987	9.1626	10.618	10.554	10.562

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	13.577	13.574	13.574	15.731	15.793	15.899
836.5	26915	13.473	13.473	13.476	15.670	15.302	15.589
841.5	26965	13.551	13.537	13.531	15.746	15.512	15.792

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LTE BAND 26 for part 90S Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
814.7	26697	1.1007	1.1020	1.1056	1.252	1.257	1.254
819.0	26740	1.1022	1.1027	1.1081	1.253	1.254	1.250
823.3	26783	1.1041	1.1081	1.1000	1.252	1.257	1.257

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	2.7195	2.7151	2.7096	3.008	3.003	3.000
819.0	26740	2.7243	2.7160	2.7159	2.995	3.008	2.998
822.5	26775	2.7217	2.7118	2.7184	3.007	3.012	3.000

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	4.5214	4.5081	4.5178	4.961	4.965	4.960
819.0	26740	4.5220	4.5042	4.5034	4.977	4.967	4.965
821.5	26765	4.5279	4.4987	4.5045	4.944	4.947	4.967

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	9.0412	9.0107	9.0723	10.437	10.498	10.501

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	4.5158	4.4986	4.5066	4.919	4.943	4.938
2310.0	27710	4.5135	4.5161	4.5037	4.964	4.947	4.970
2312.5	27735	4.5153	4.5069	4.5077	4.968	4.927	4.941

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	16QAM	QPSK	64QAM
2310.0	27710	9.0455	9.0079	9.0483	10.522	10.385	10.498

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	4.5141	4.5022	4.5047	4.945	4.904	5.138
2595.0	38000	4.5033	4.5063	4.5240	5.036	4.939	4.941
2617.5	38225	4.5066	4.5053	4.5042	4.936	5.020	4.912

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	9.0741	9.0431	9.0325	10.487	10.426	10.273
2595.0	38000	9.0359	9.0240	9.0376	10.398	10.786	10.478
2615.0	38200	9.0547	9.0547	9.0357	10.479	10.394	10.441

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	13.530	13.564	13.514	15.694	16.278	15.919
2595.0	38000	13.529	13.582	13.512	15.539	15.968	15.730
2612.5	38175	13.485	13.540	13.545	15.734	15.570	15.824

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	17.950	17.982	18.009	19.873	19.864	19.848
2595.0	38000	17.989	18.002	18.013	20.057	20.104	20.386
2610.0	38150	17.996	17.977	17.979	19.944	19.993	21.652

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	4.5194	4.5114	4.5059	4.903	5.189	5.052
2593.0	40620	4.5061	4.5047	4.5004	4.957	4.960	4.927
2687.5	41565	4.5266	4.5098	4.4958	4.948	4.927	4.930

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	9.0551	9.0434	9.0267	10.722	10.521	11.137
2593.0	40620	9.0633	9.0372	9.0462	10.504	10.313	10.459
2685.0	41540	9.0365	9.0685	9.0651	10.482	10.495	10.553

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	13.502	13.493	13.497	15.496	15.749	15.398
2593.0	40620	13.545	13.528	13.508	15.579	15.667	15.652
2682.5	41515	13.496	13.544	13.508	15.401	15.576	15.785

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	17.983	18.010	17.944	19.396	19.889	19.825
2593.0	40620	17.988	17.976	18.016	20.029	20.181	20.758
2680.0	41490	18.009	17.991	17.973	19.881	20.049	20.192

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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	1.1015	1.1067	1.1047	1.255	1.257	1.258
1745.0	132322	1.1087	1.1015	1.1009	1.257	1.252	1.257
1779.3	132665	1.1004	1.1027	1.1005	1.250	1.252	1.255

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	2.7168	2.7219	2.7224	2.994	3.009	3.020
1745.0	132322	2.7264	2.7225	2.7154	3.007	3.003	3.007
1778.5	132657	2.7245	2.7161	2.7239	3.000	3.005	3.001

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	4.5163	4.5107	4.5070	4.969	4.975	4.950
1745.0	132322	4.5196	4.5104	4.5141	4.956	4.936	5.355
1777.5	132647	4.5104	4.5056	4.5140	4.989	4.957	4.954

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	9.0930	9.0439	9.0838	10.634	10.396	10.551
1745.0	132322	9.0648	9.1094	9.0533	10.551	10.472	10.486
1775.0	132622	9.0793	9.0558	9.0958	10.509	10.520	10.675

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	13.5460	13.4870	13.5070	15.681	15.393	15.687
1745.0	132322	13.5680	13.5570	13.5840	15.656	15.681	16.074
1772.5	132597	13.5940	13.5940	13.5920	15.998	15.641	15.496

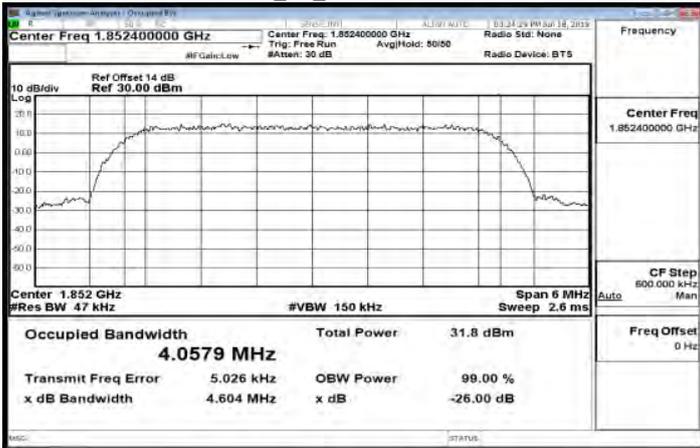
LTE BAND 66 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1720.0	132072	17.9690	17.9660	17.9050	19.821	19.977	19.826
1745.0	132322	18.0360	18.0470	18.0120	20.102	20.089	20.268
1770.0	132572	18.0060	18.0000	17.9860	19.835	19.853	19.968

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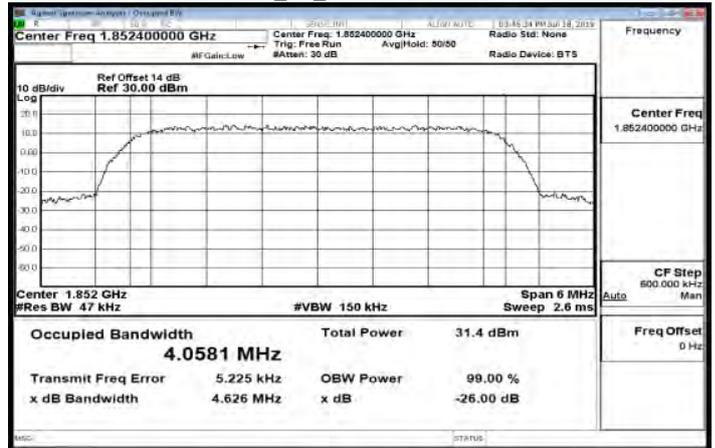
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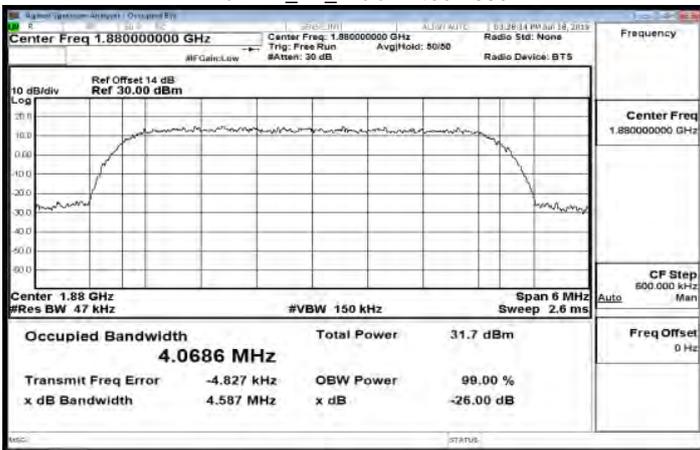
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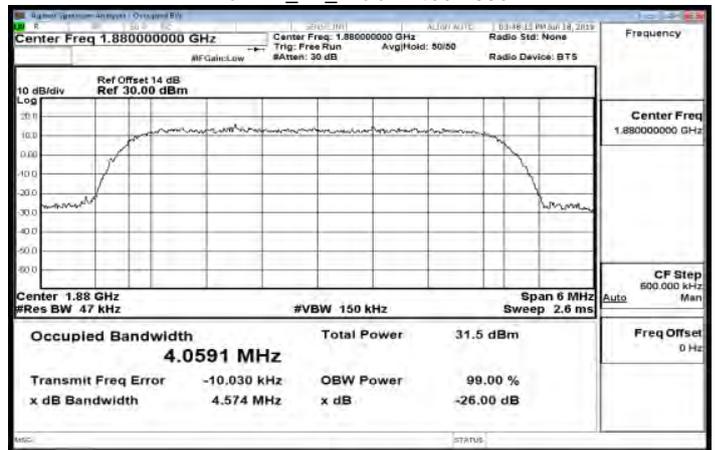
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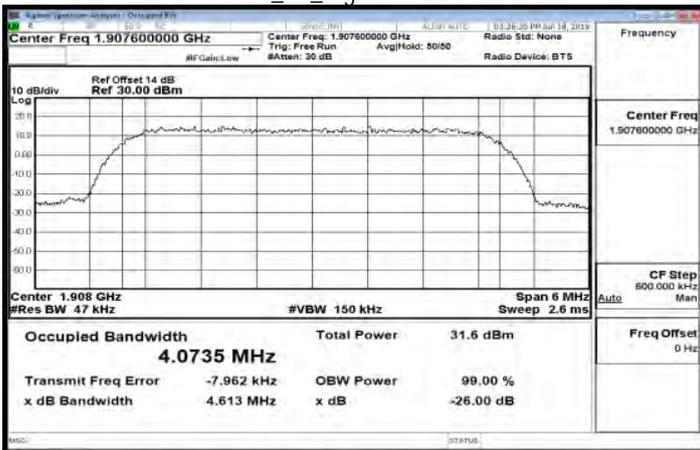
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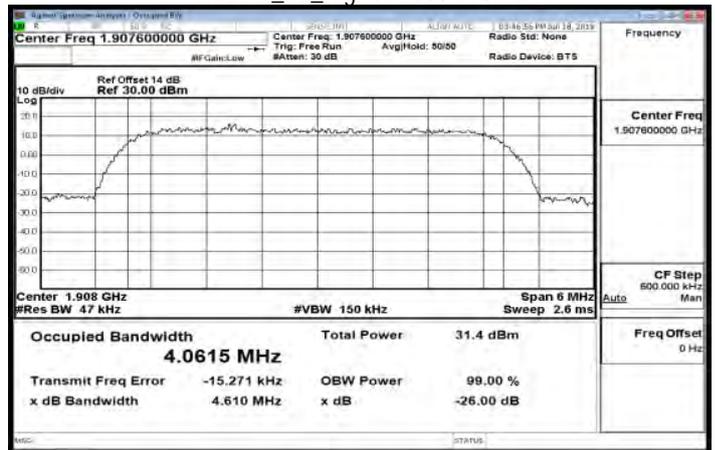
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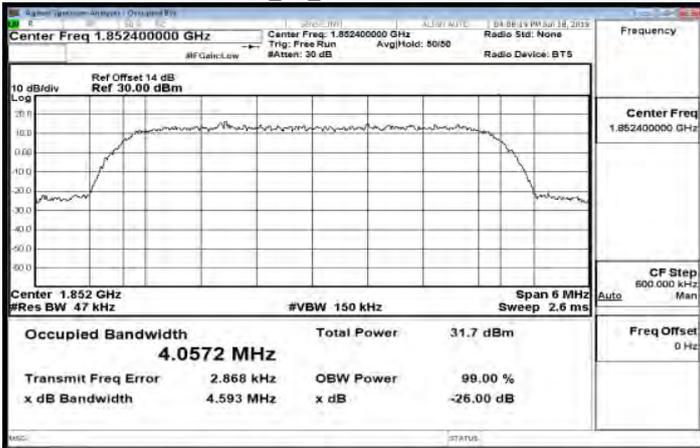


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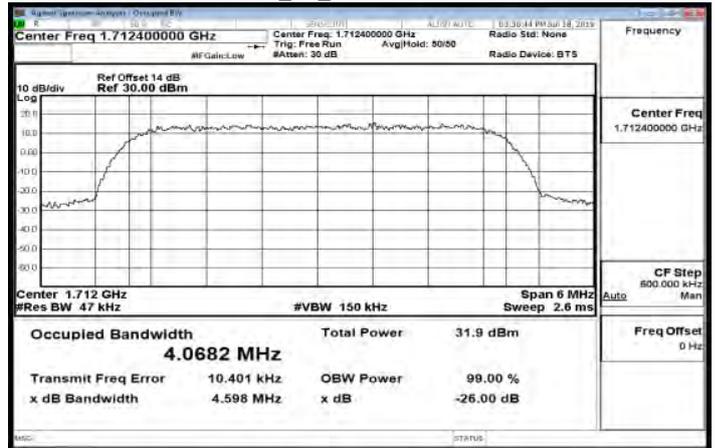
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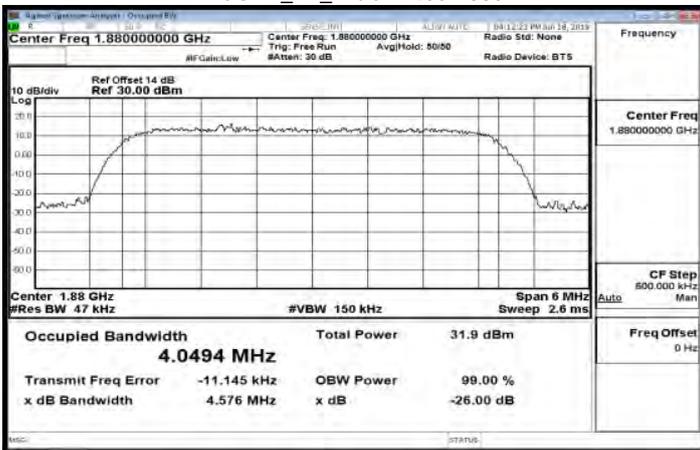
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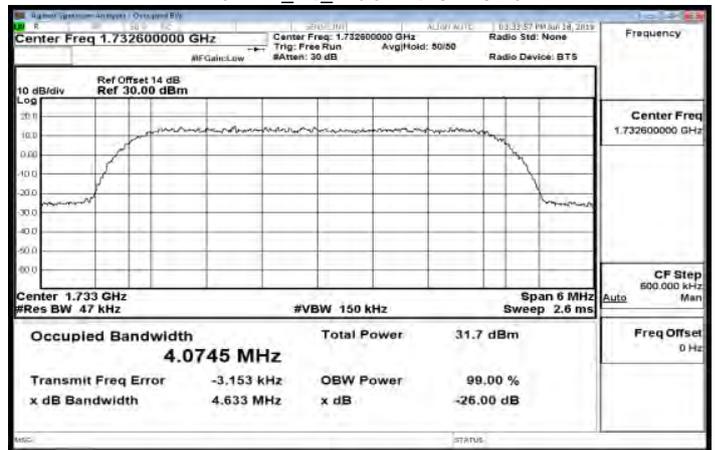
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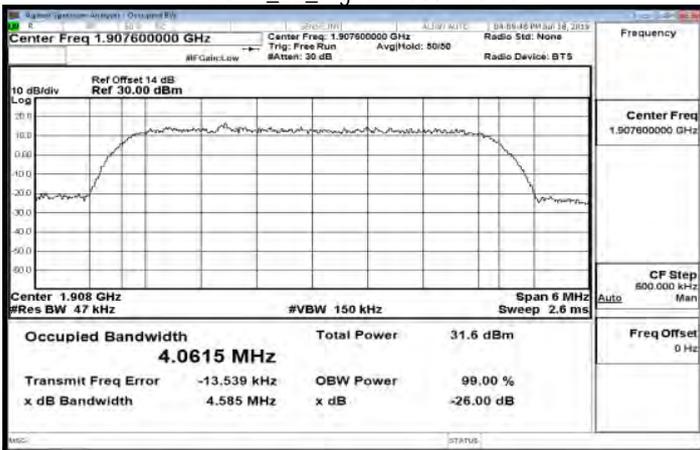
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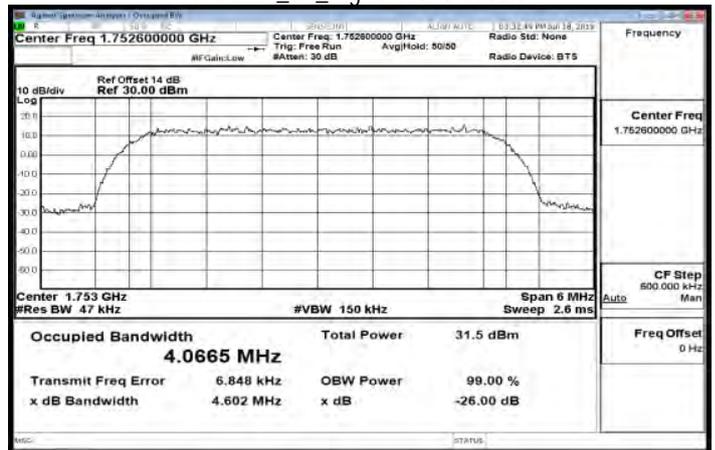
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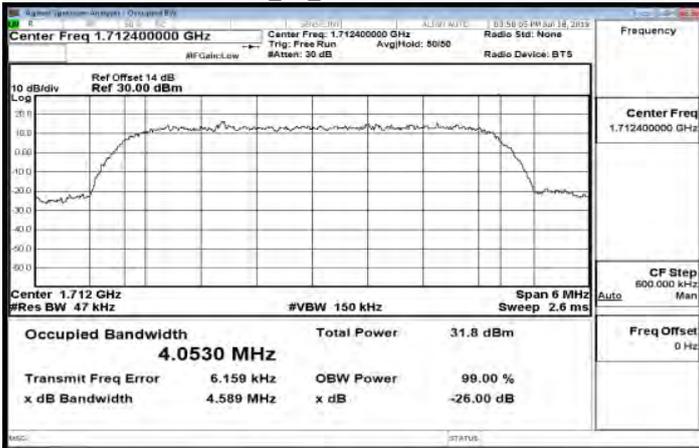


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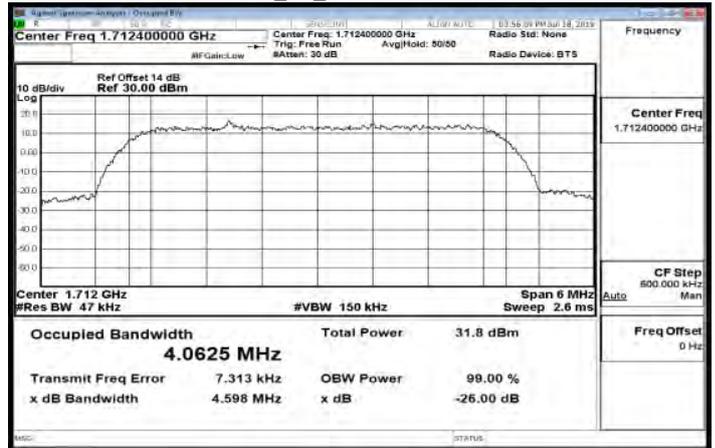
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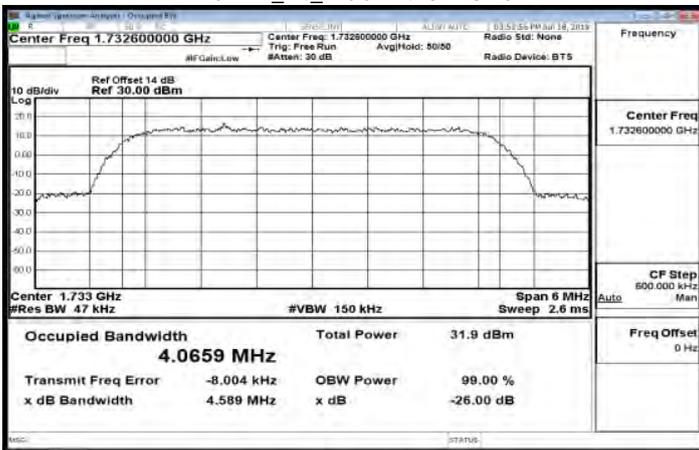
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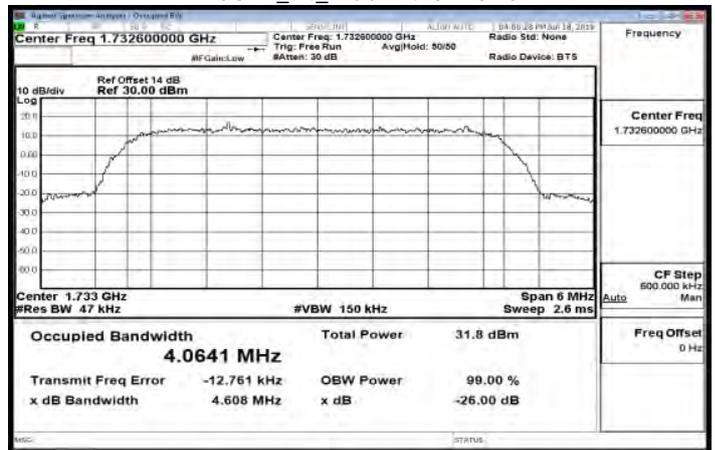
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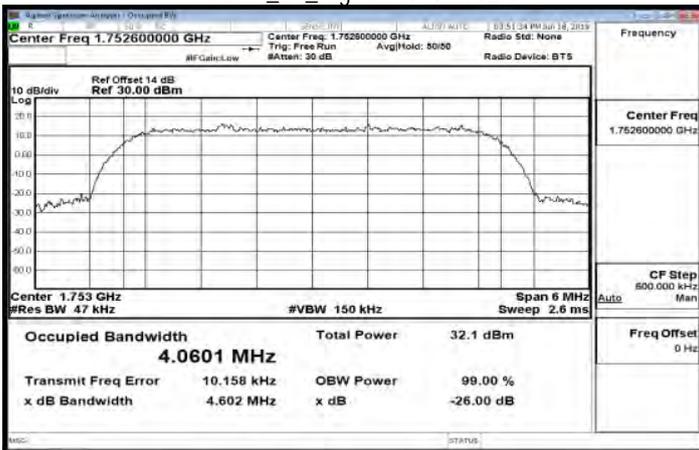
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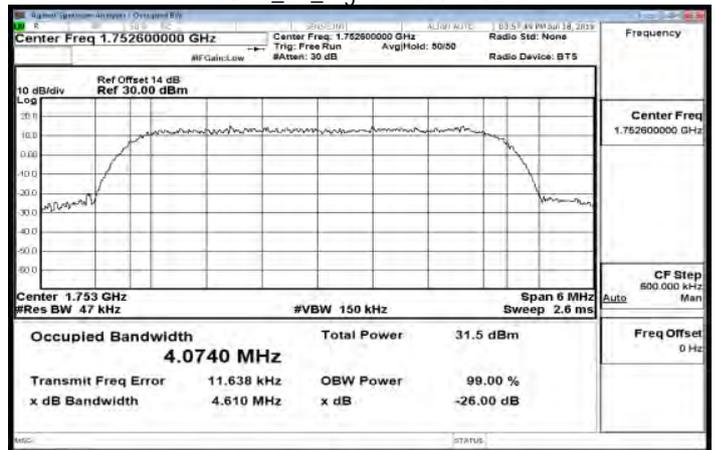
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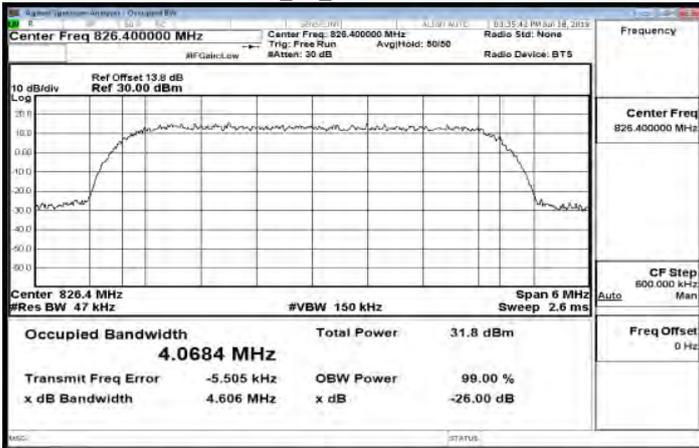


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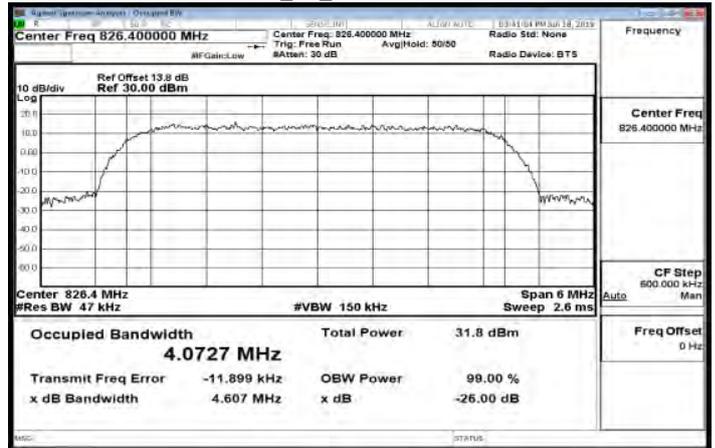
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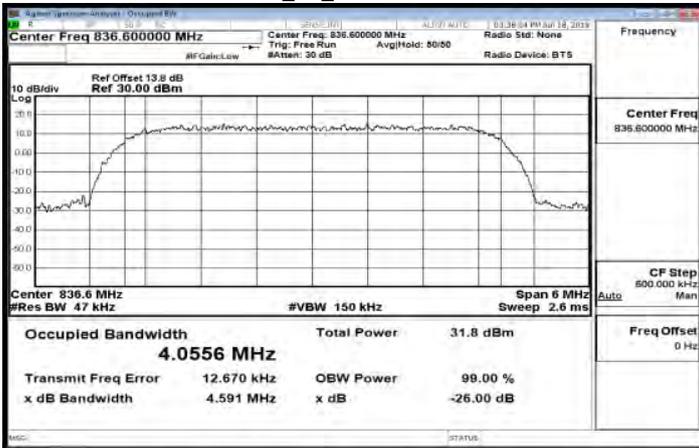
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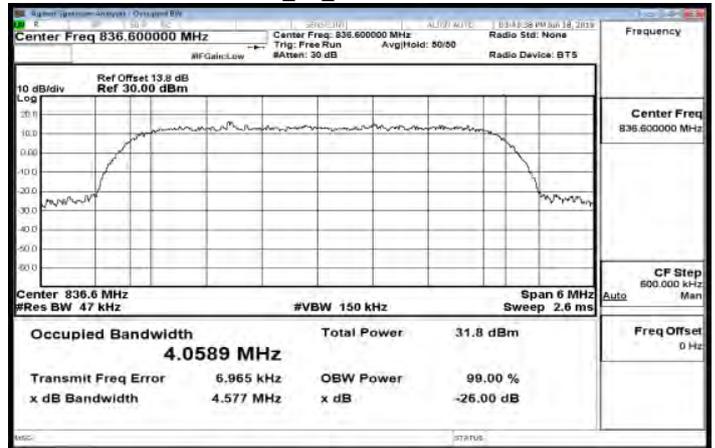
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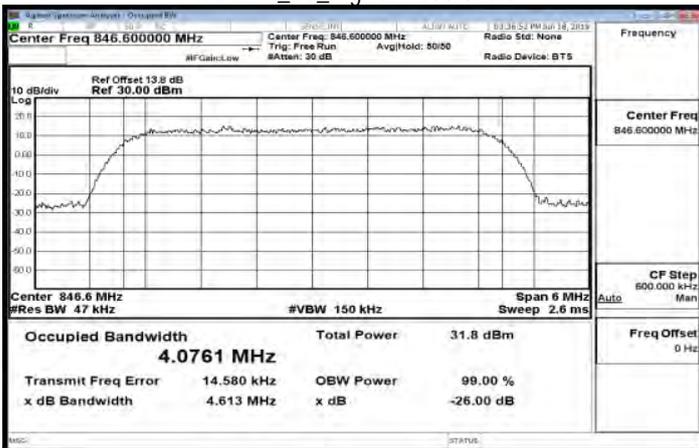
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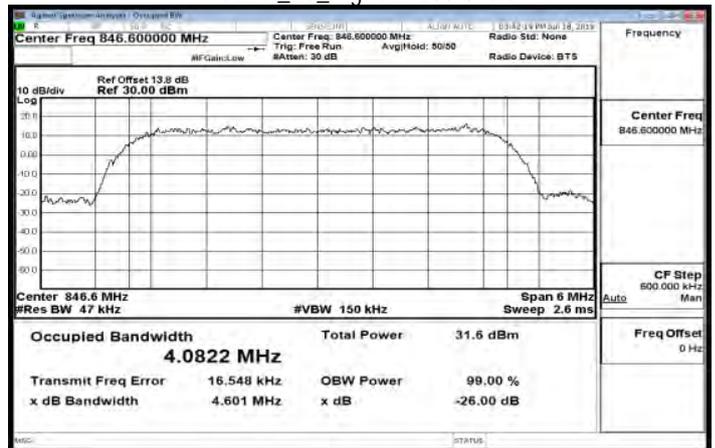
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WCDMA_B5_HighCH4233-846.6



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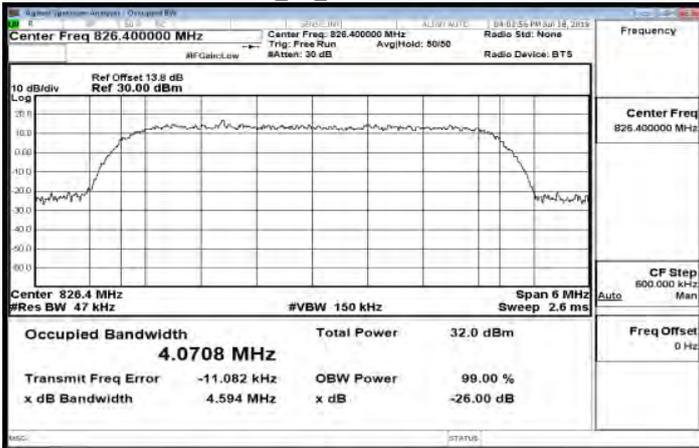


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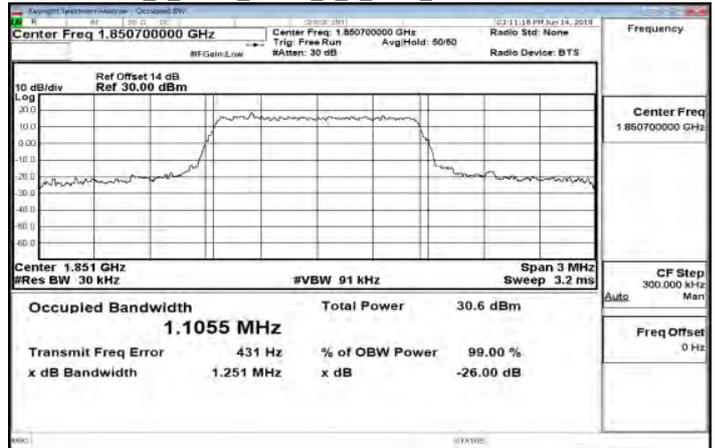
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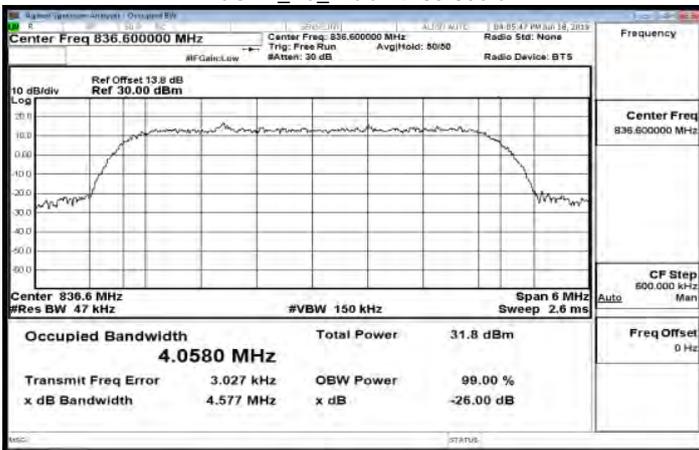
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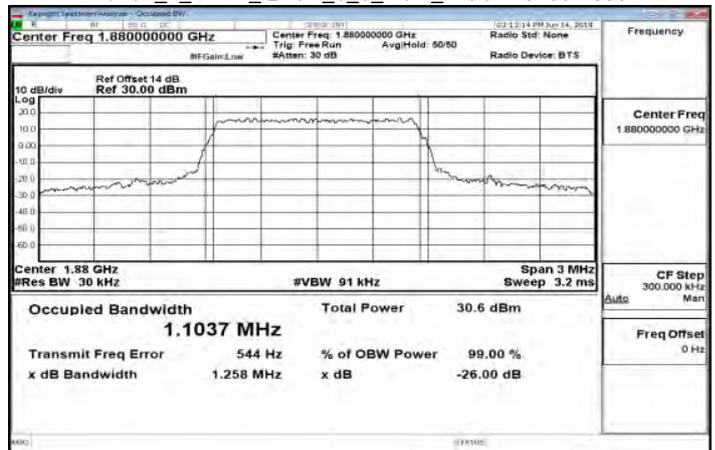
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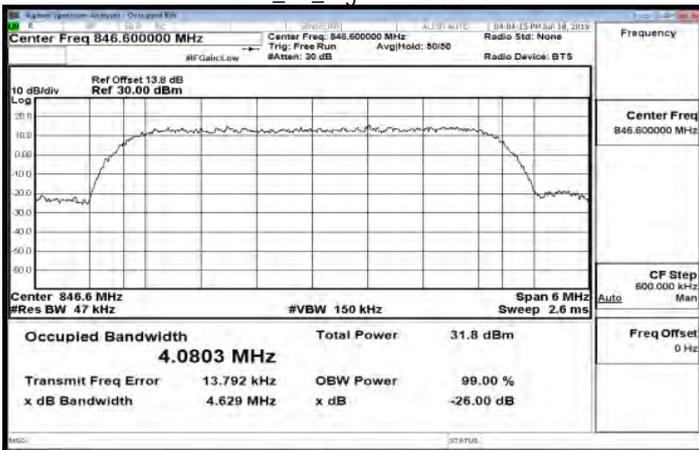
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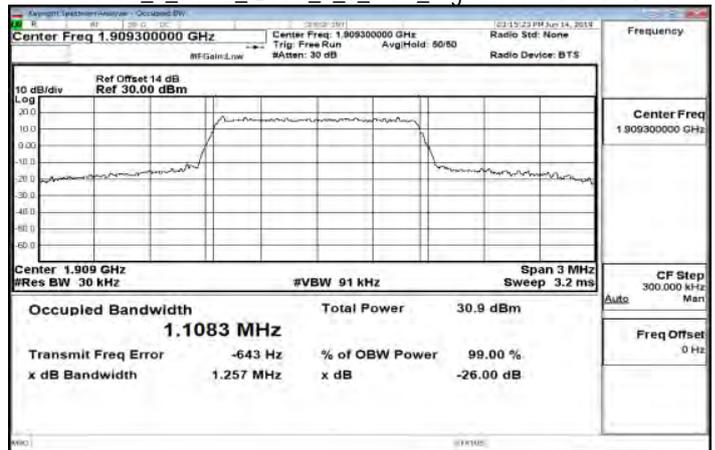
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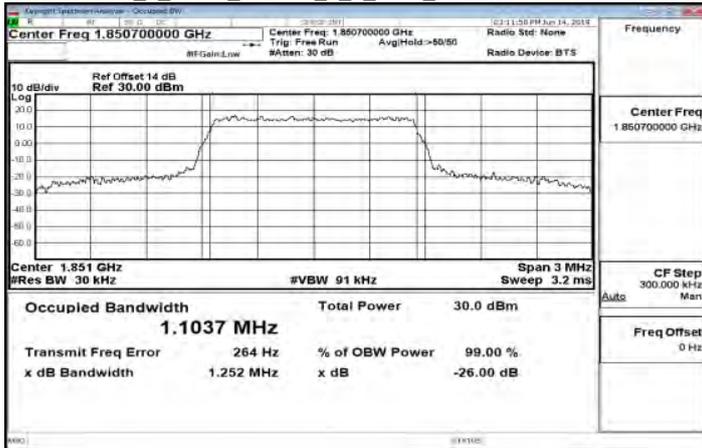
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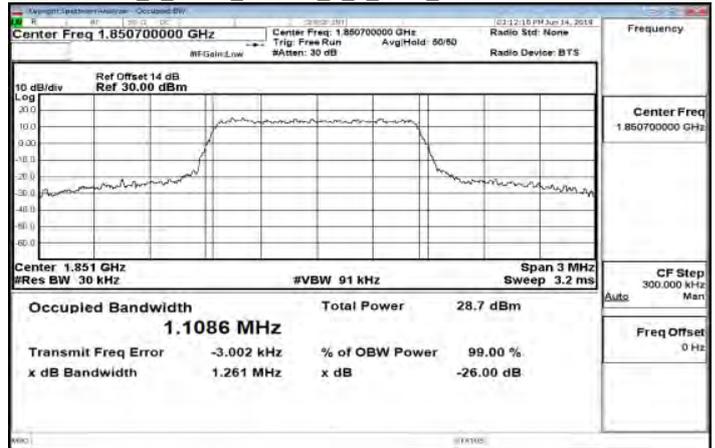
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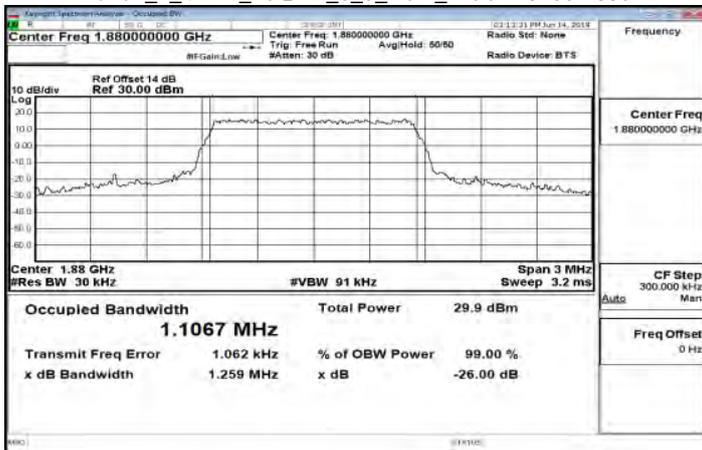
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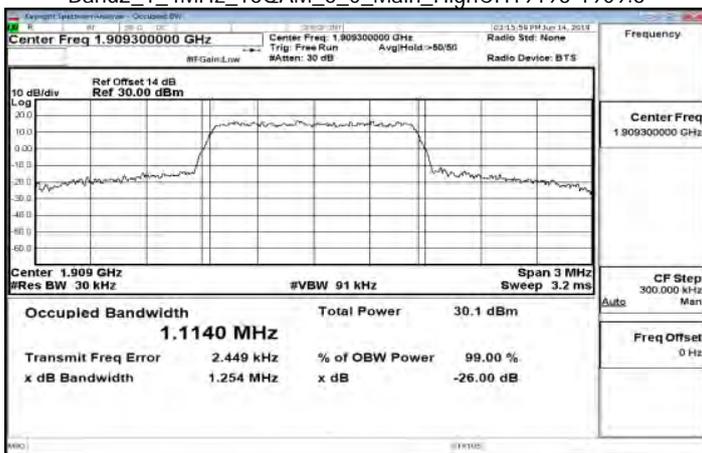
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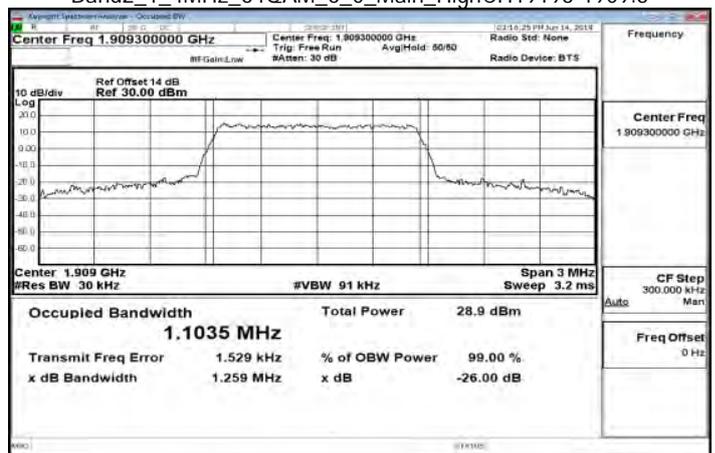
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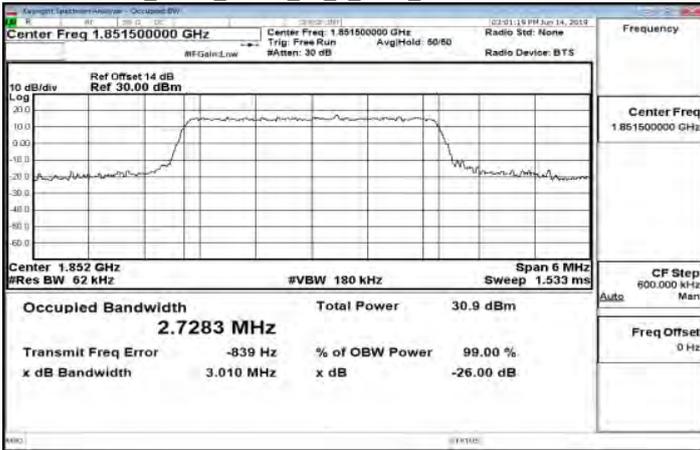
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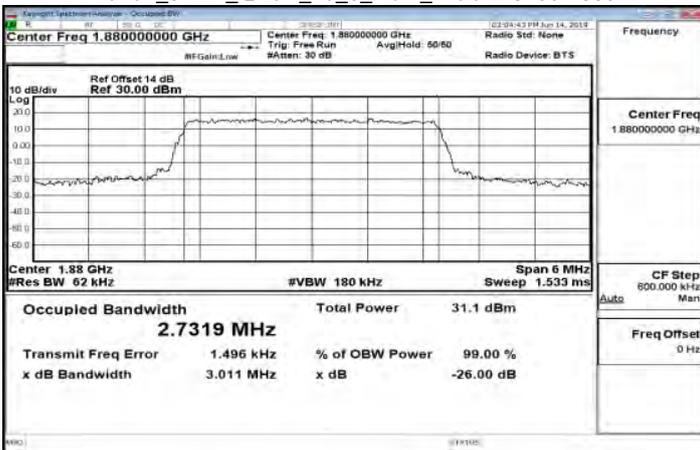
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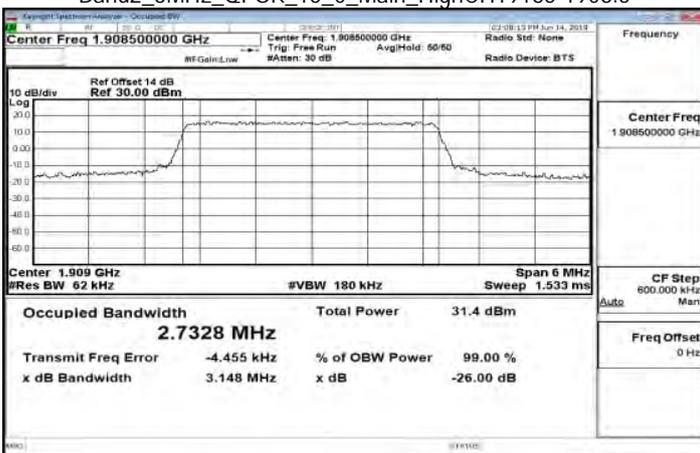
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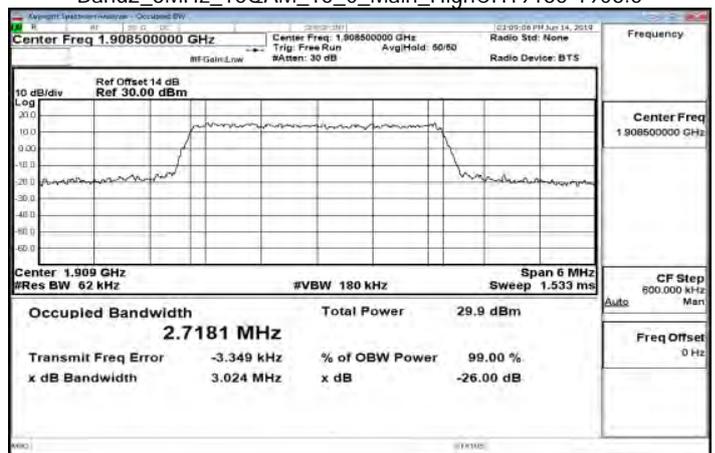
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Band2_3MHz_QPSK_15_0_Main_HighCH19185-1908.5



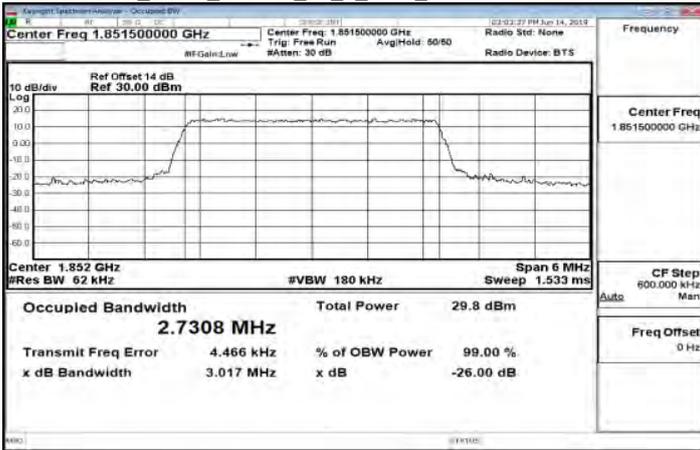
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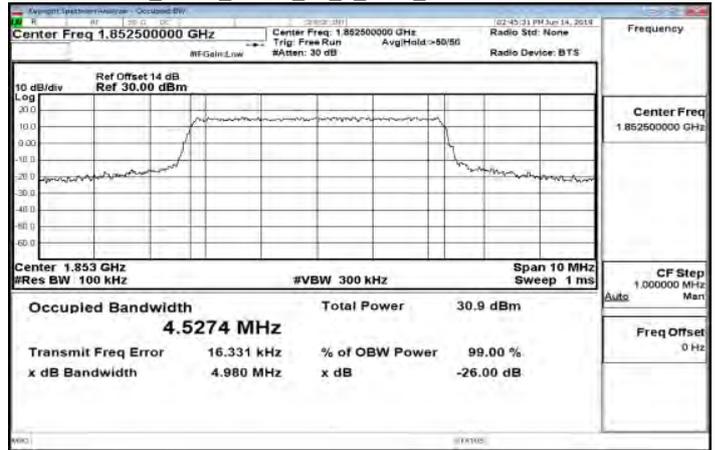
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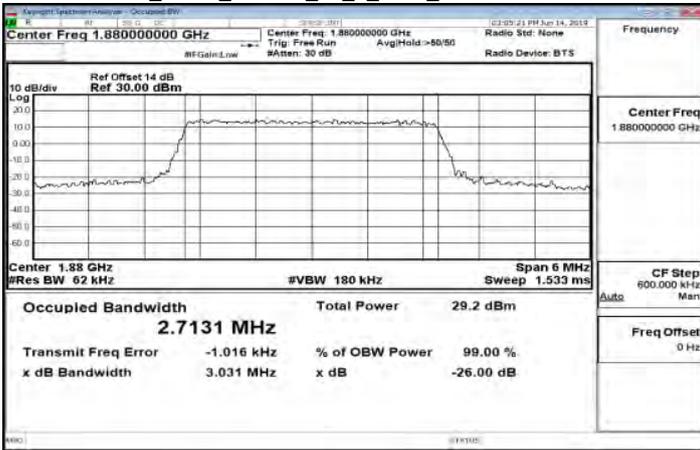
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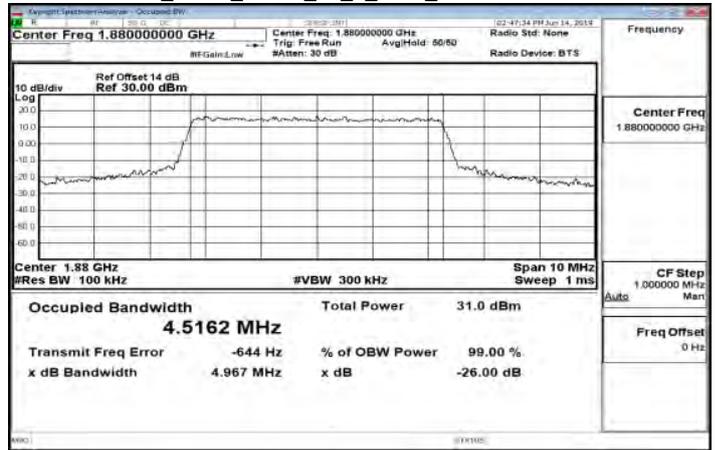
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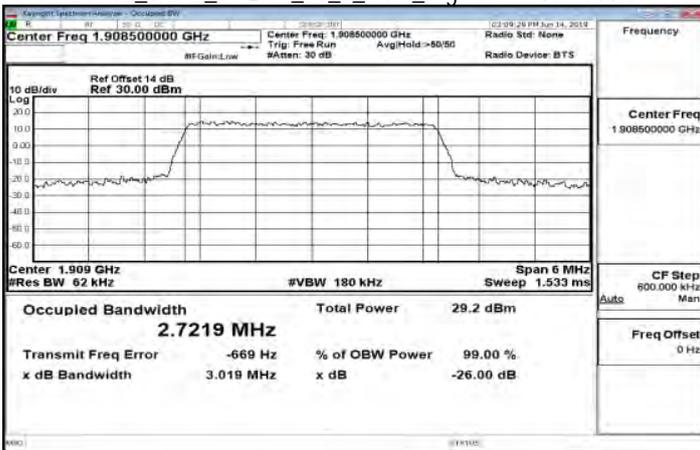
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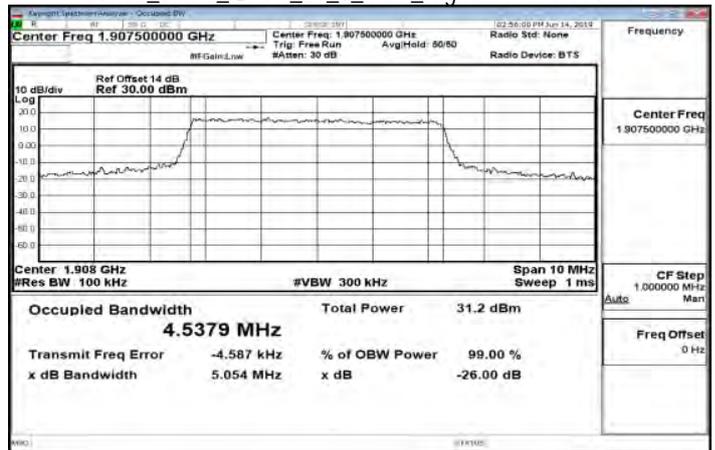
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Band2_5MHz_QPSK_25_0_Main_HighCH19175-1907.5

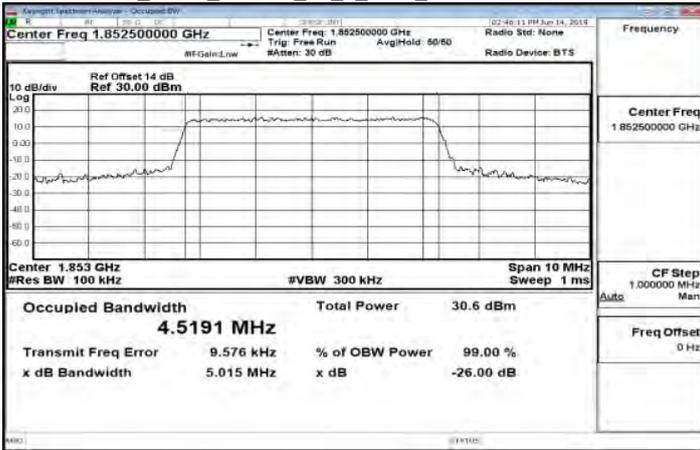


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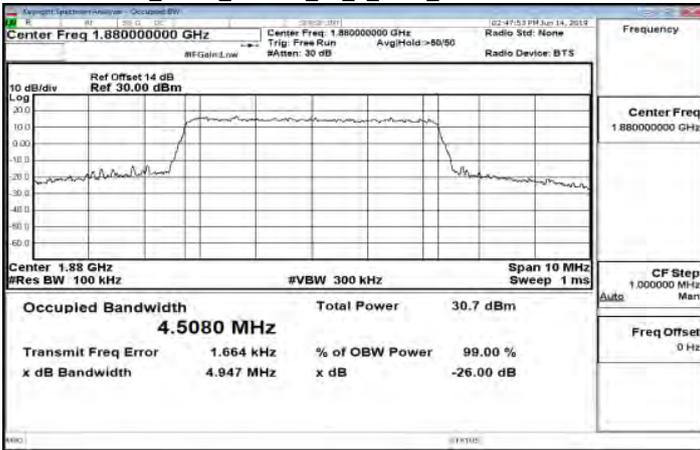
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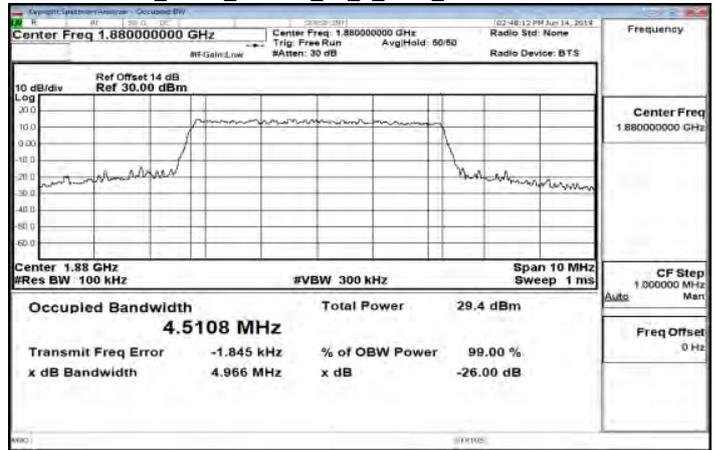
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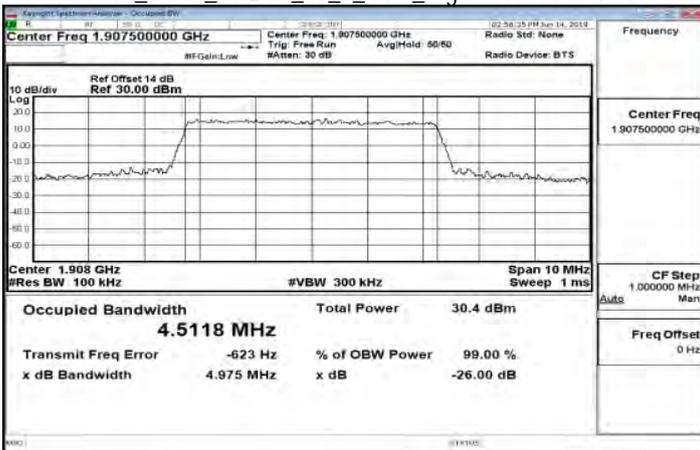
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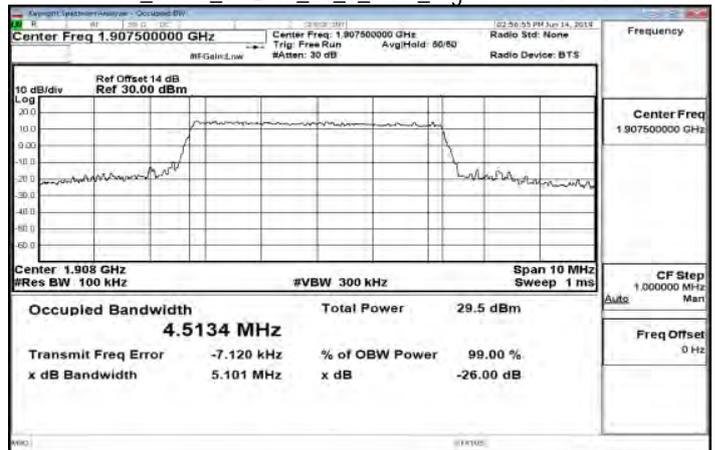
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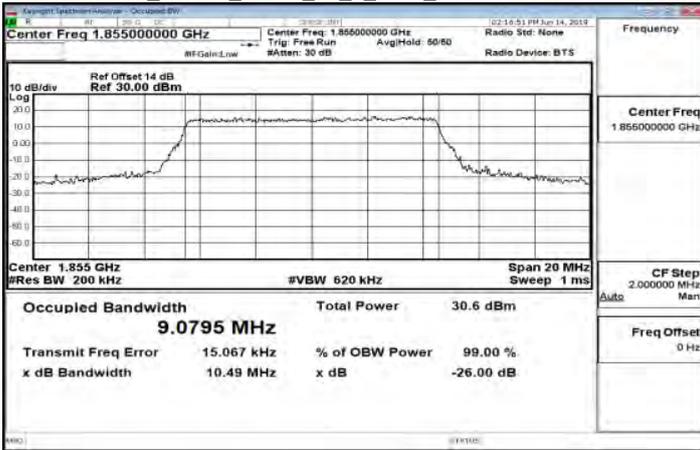
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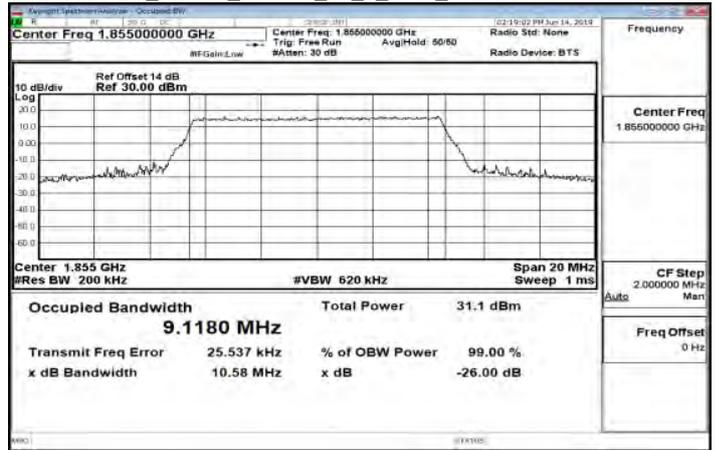
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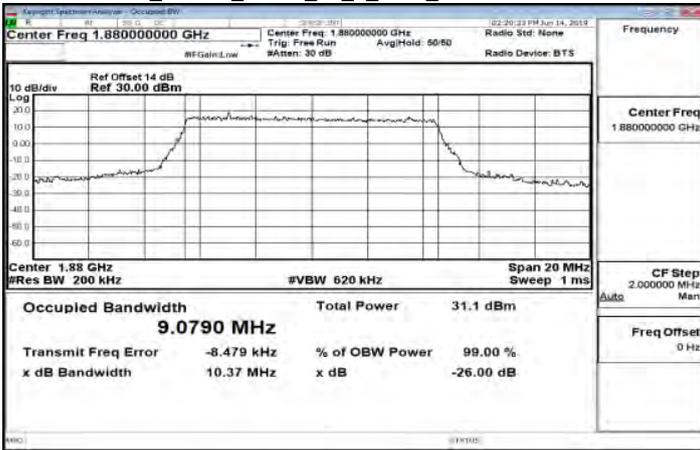
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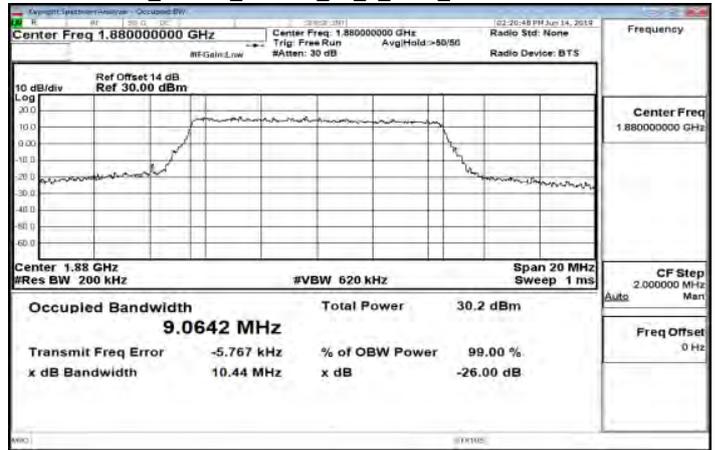
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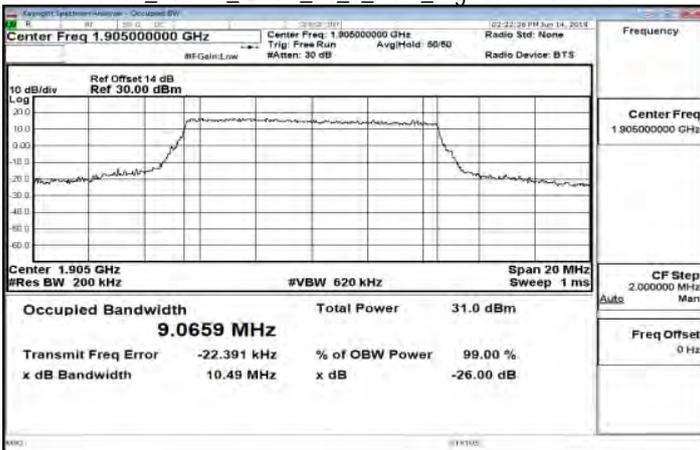
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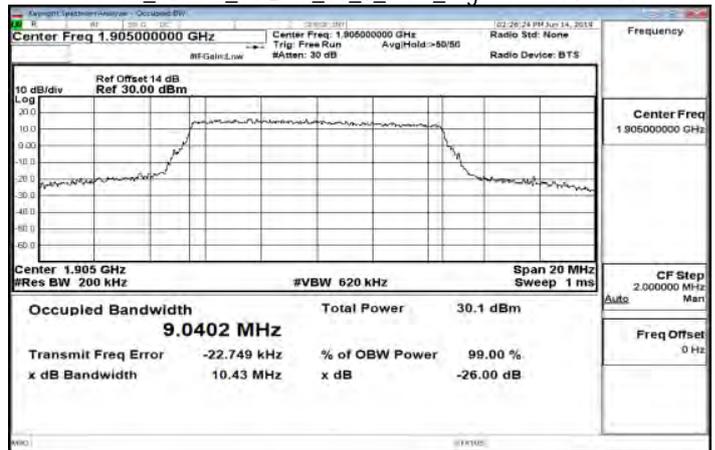
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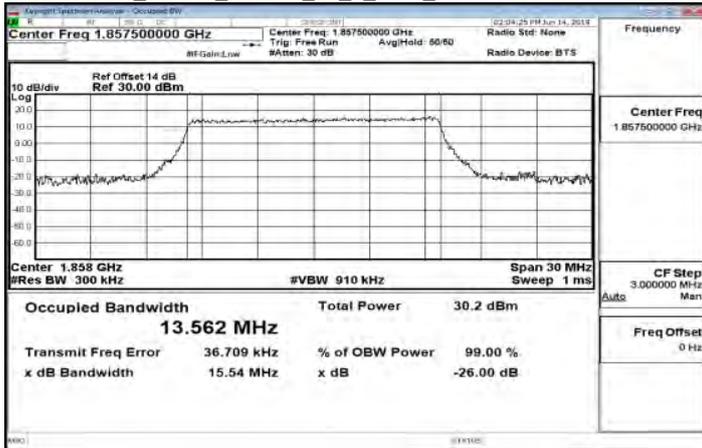


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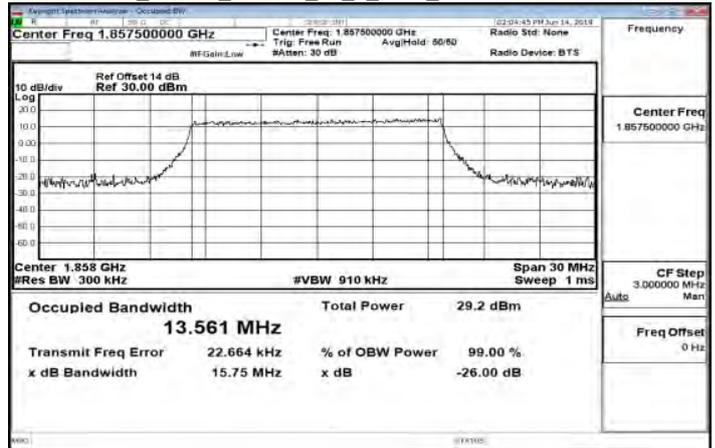
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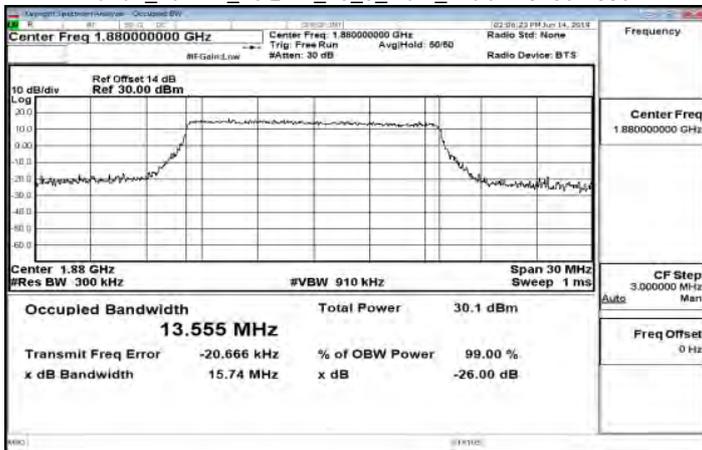
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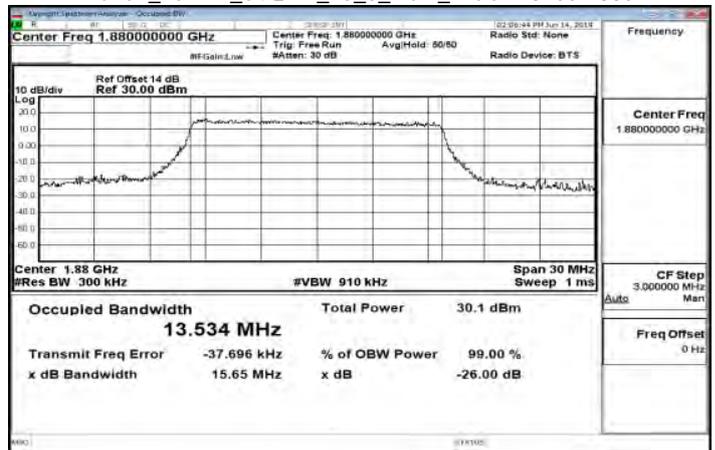
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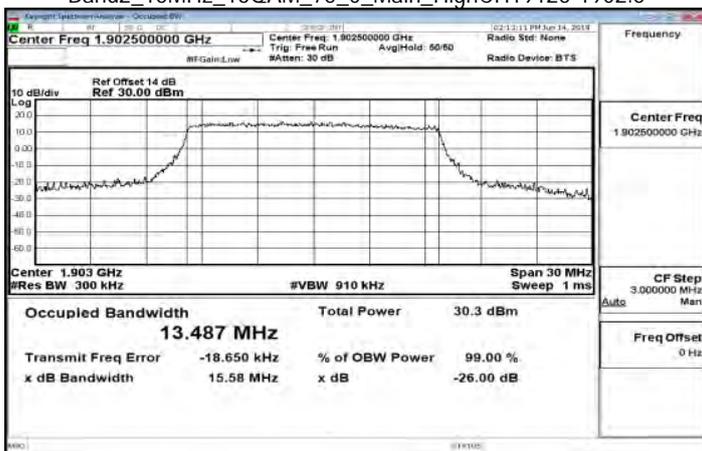
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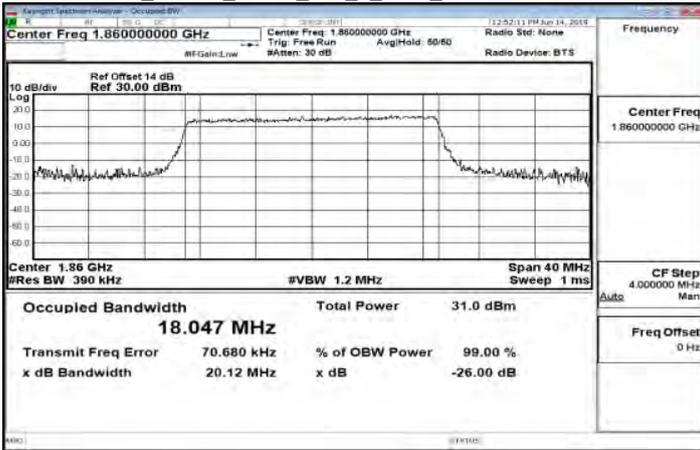
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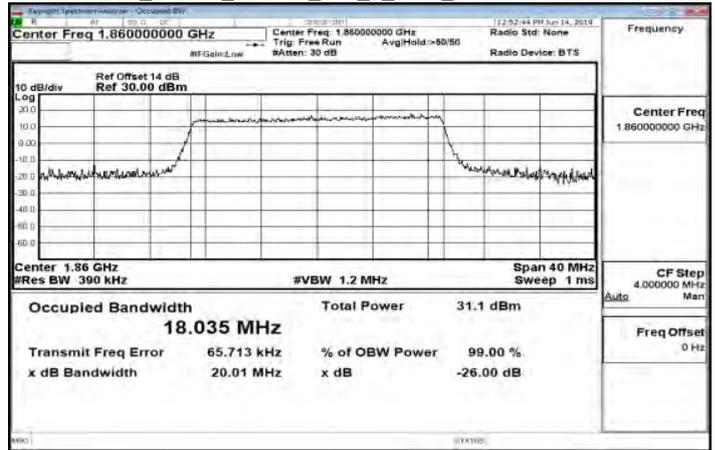
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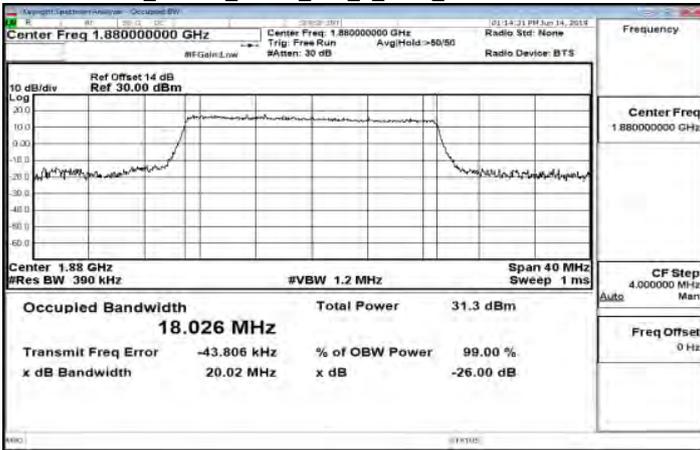
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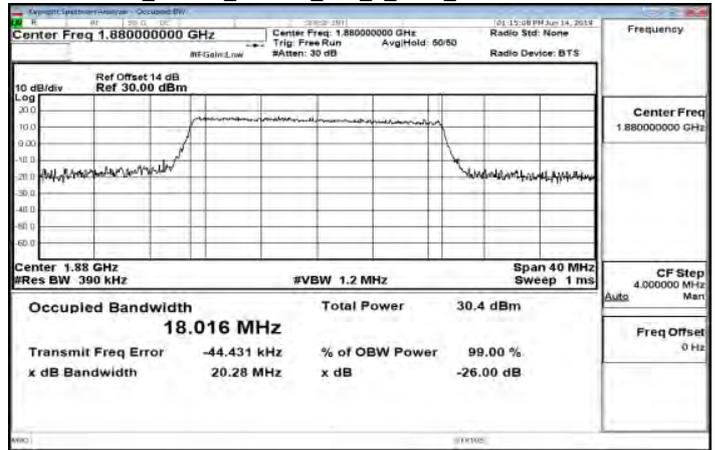
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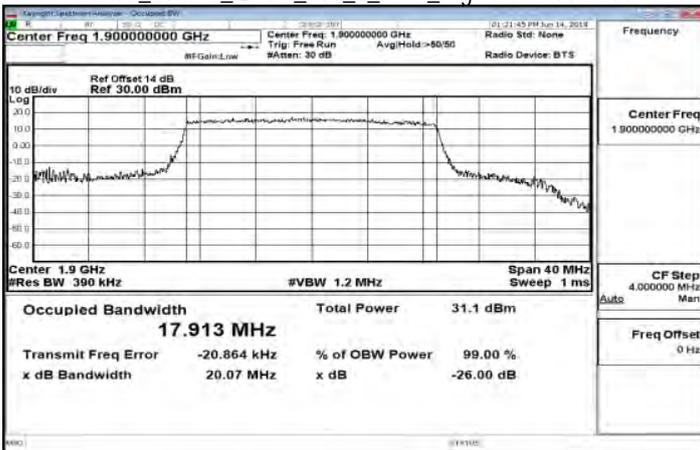
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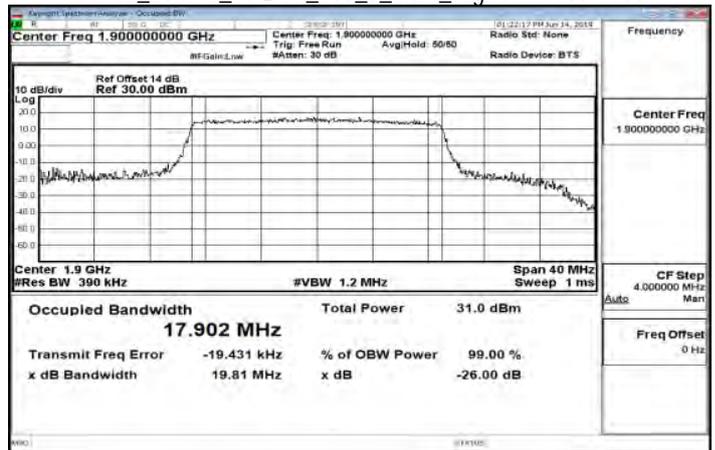
Band2_20MHz_16QAM_100_0_Main_MidCH18900-1880



Band2_20MHz_QPSK_100_0_Main_HighCH19100-1900



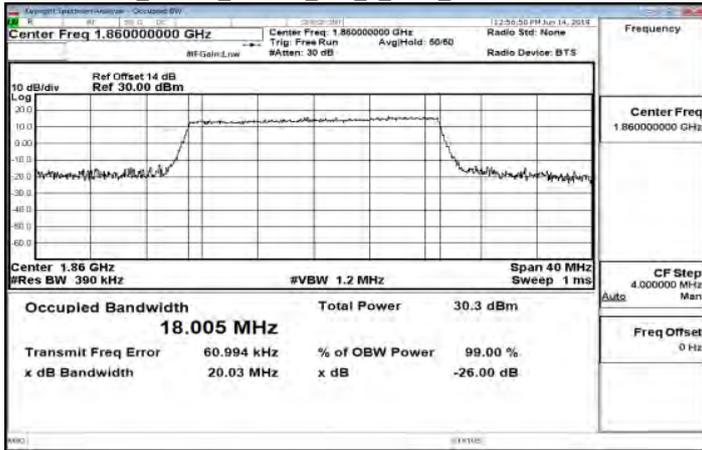
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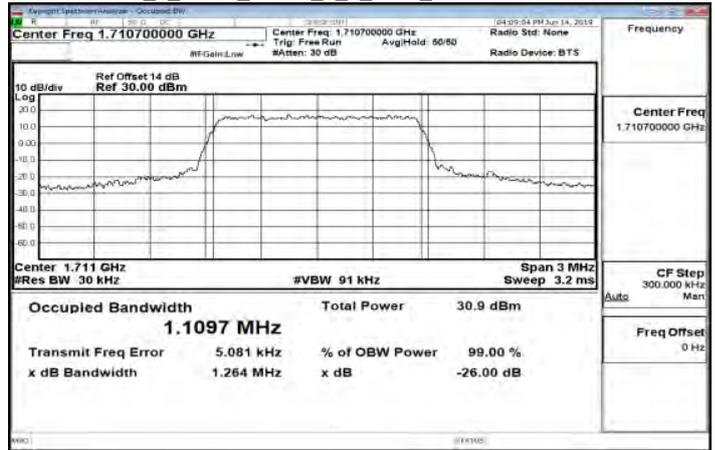
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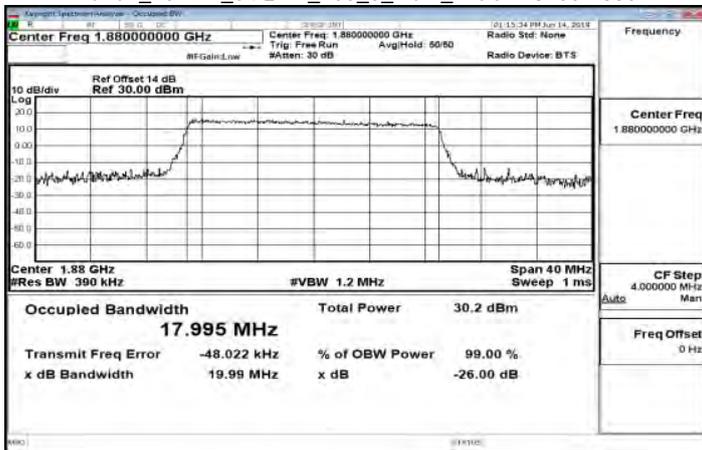
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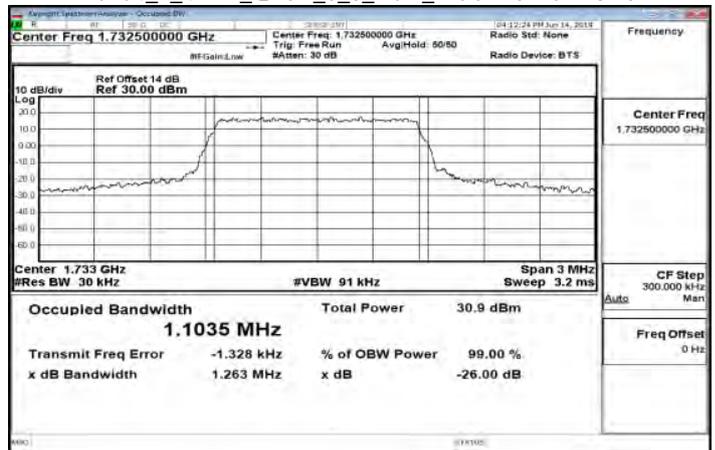
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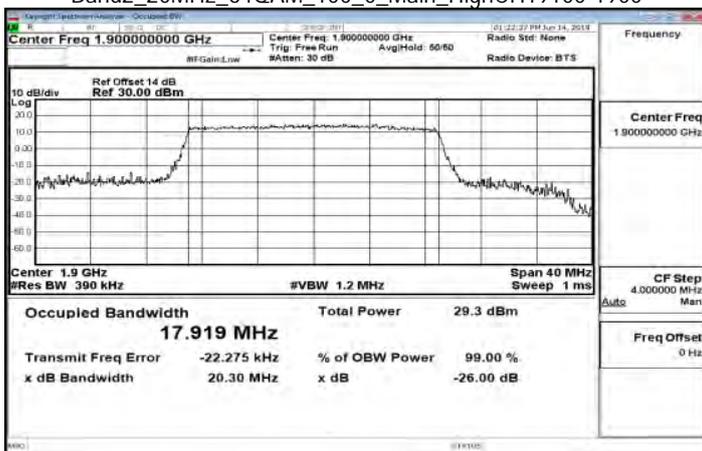
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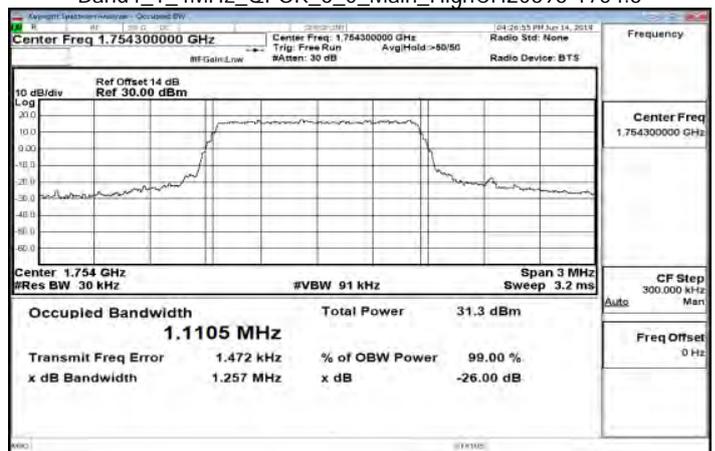
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Band2_20MHz_64QAM_100_0_Main_HighCH19100-1900



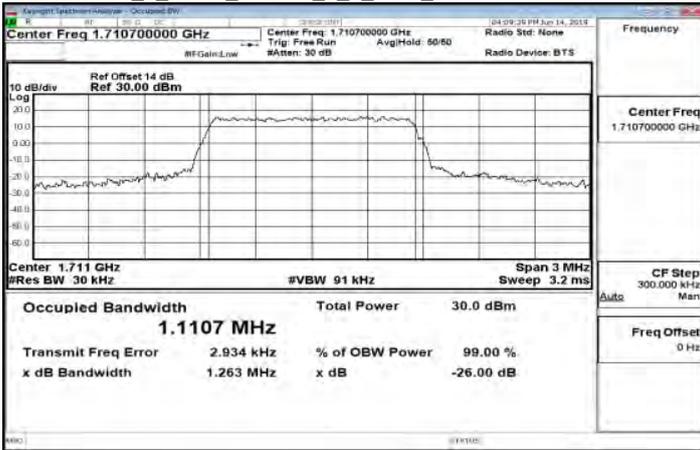
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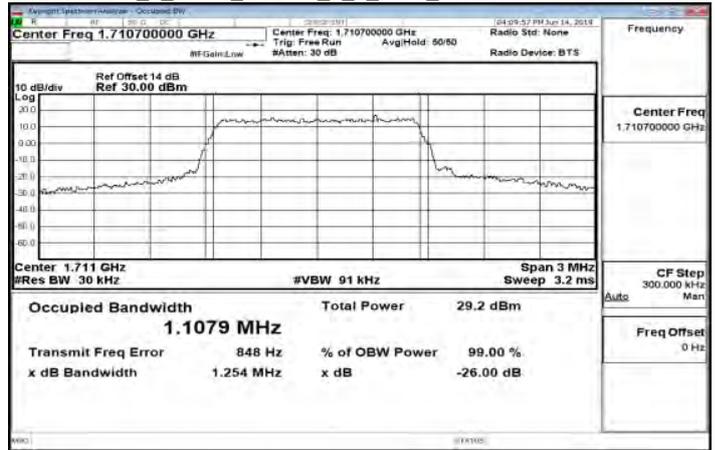
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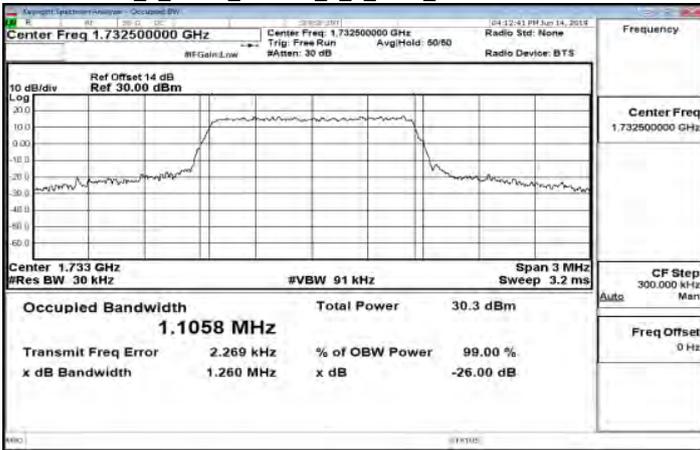
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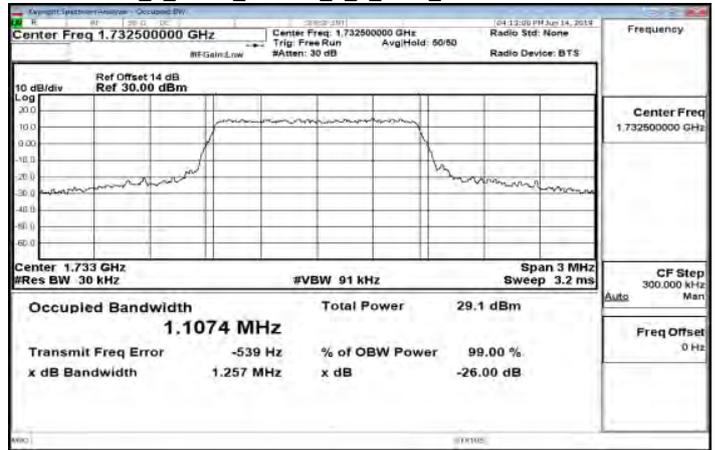
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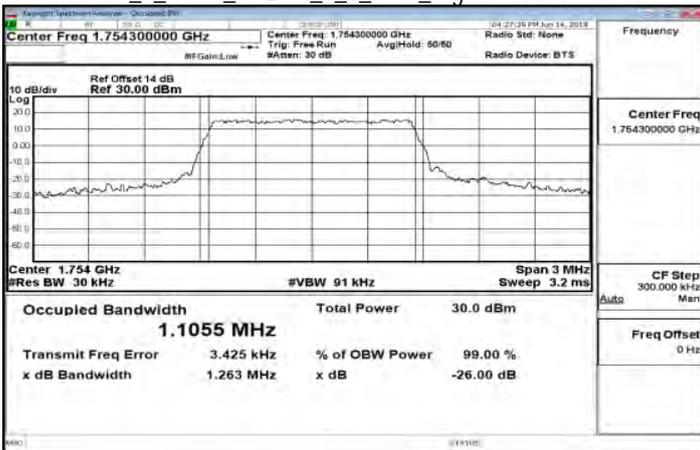
Band4_1_4MHz_16QAM_6_0_Main_MidCH20175-1732.5



Band4_1_4MHz_64QAM_6_0_Main_MidCH20175-1732.5



Band4_1_4MHz_16QAM_6_0_Main_HighCH20393-1754.3



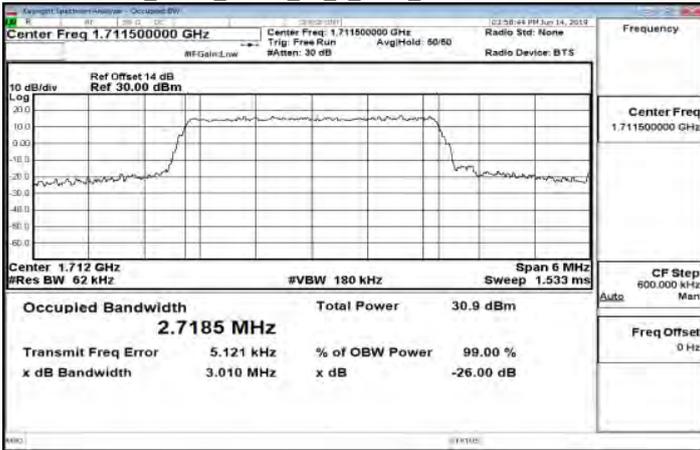
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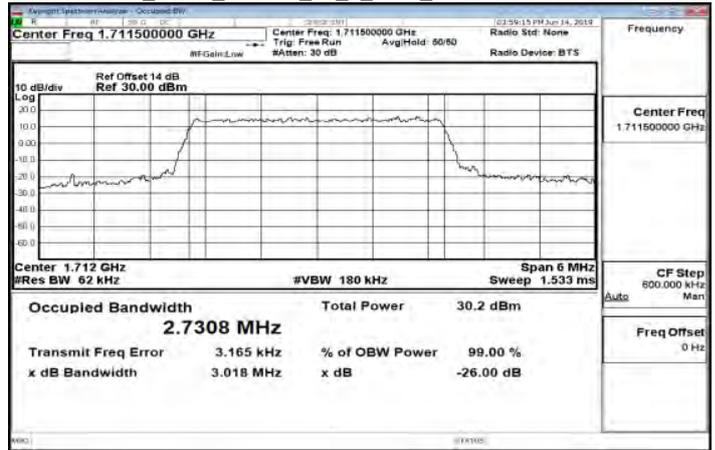
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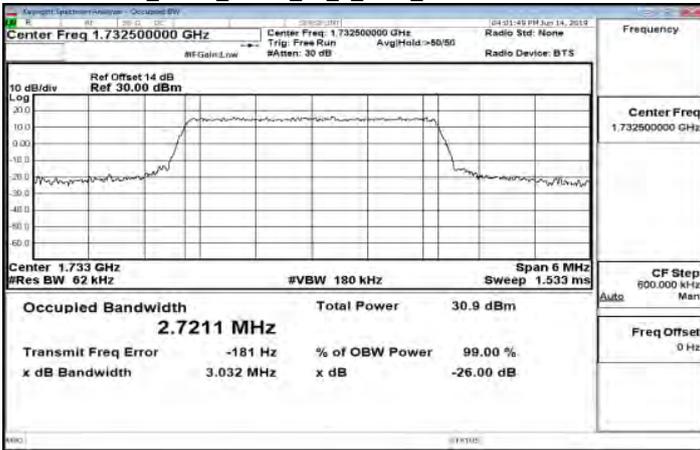
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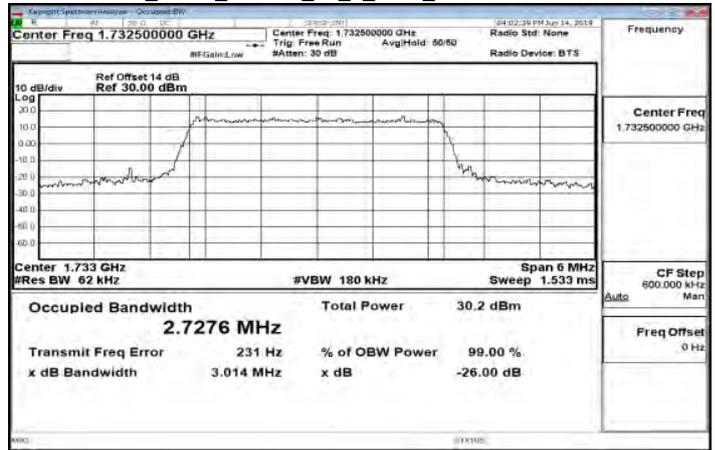
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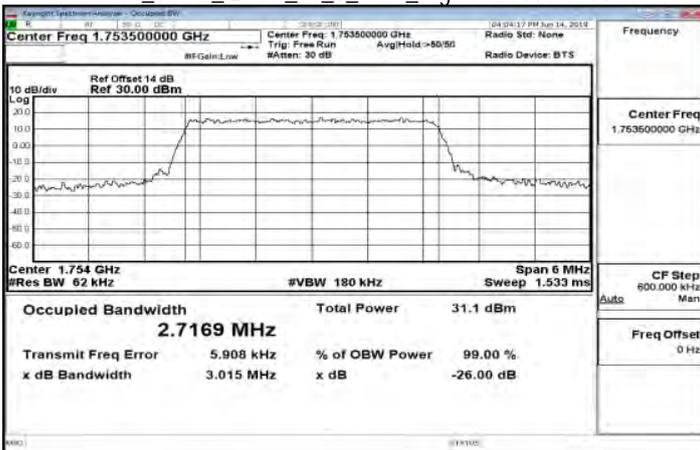
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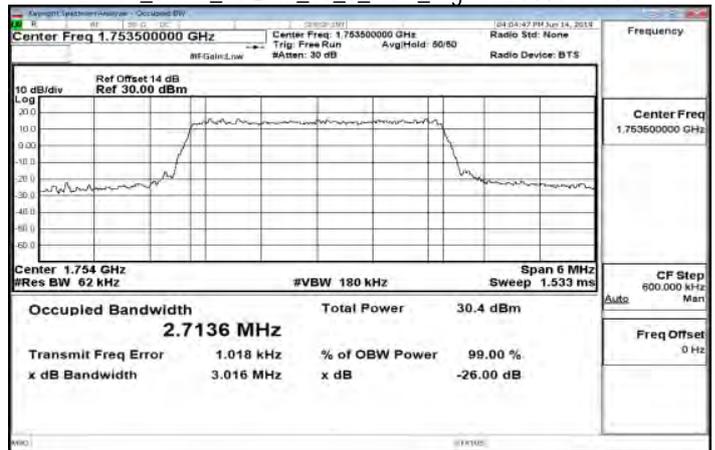
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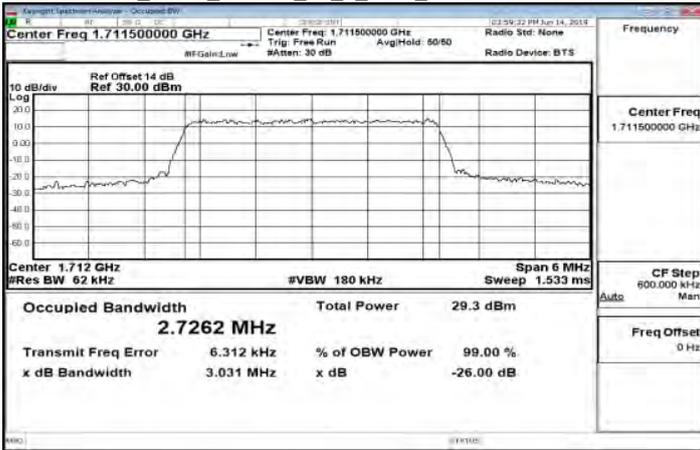
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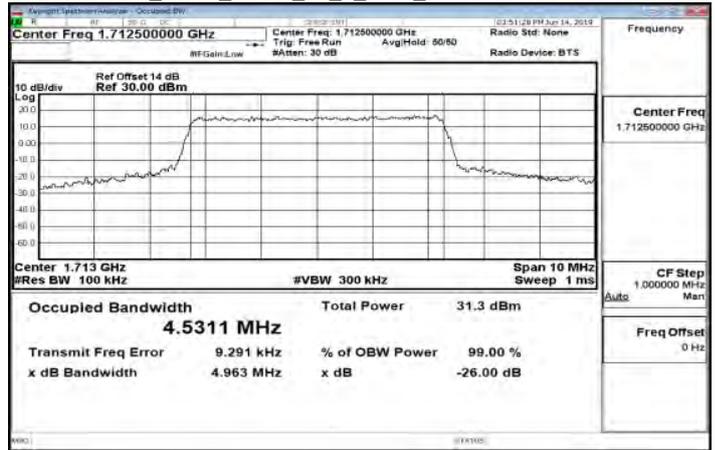
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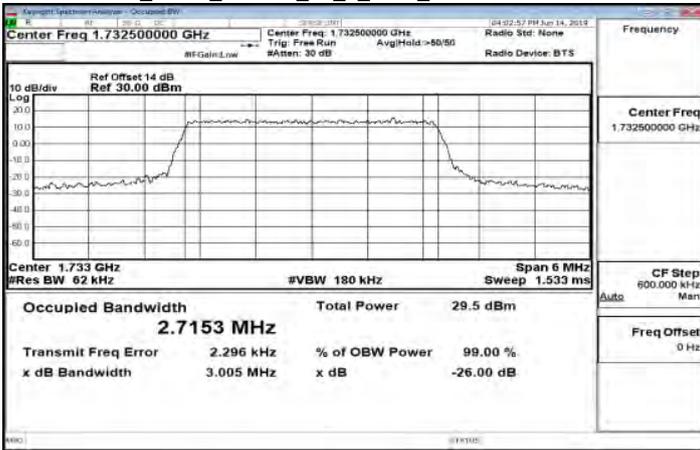
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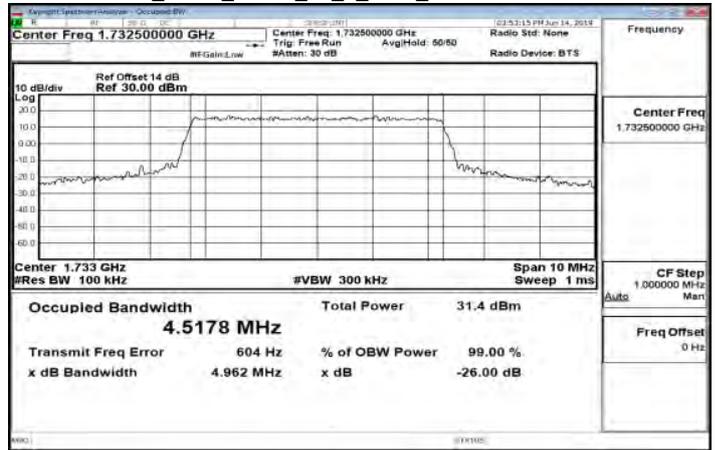
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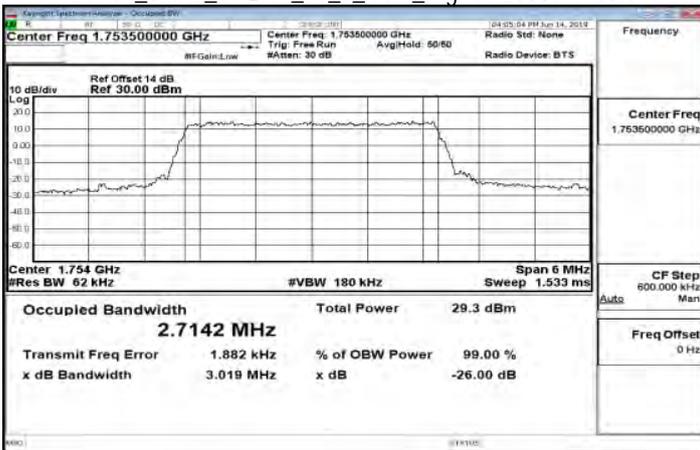
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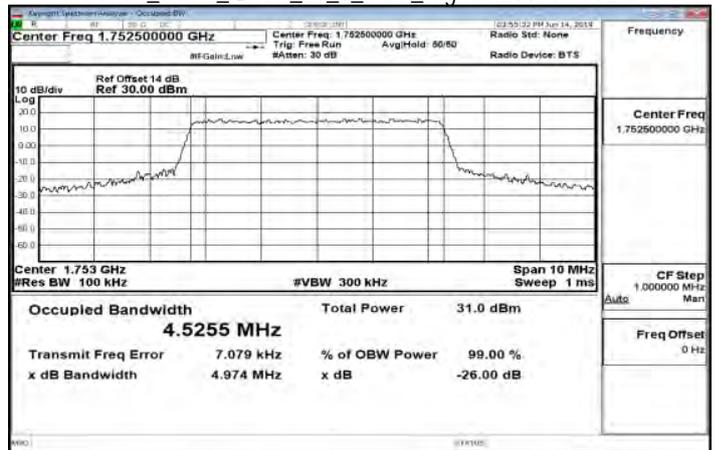
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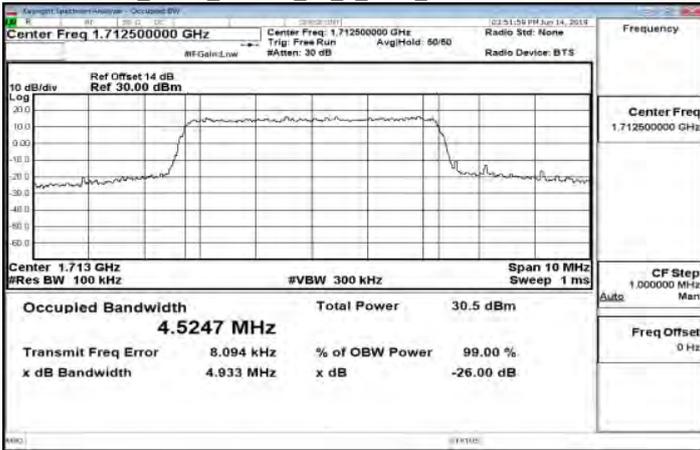


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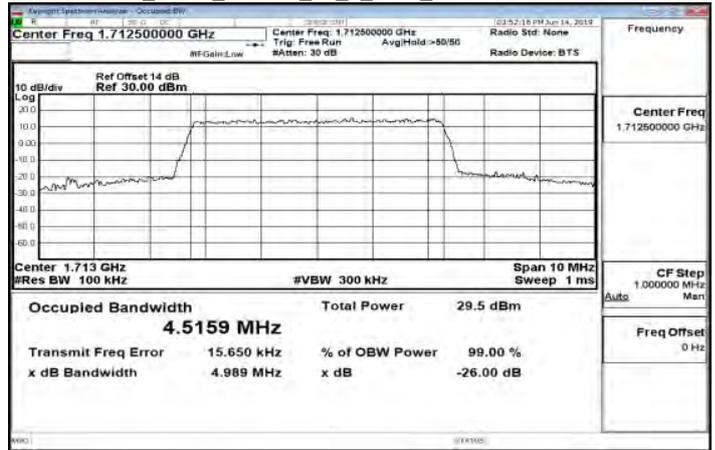
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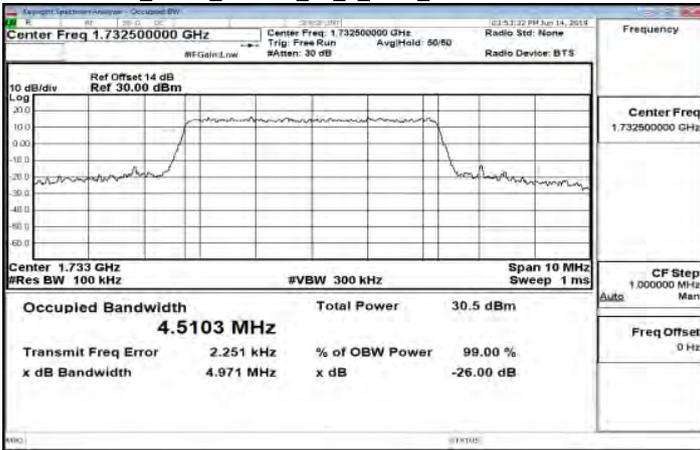
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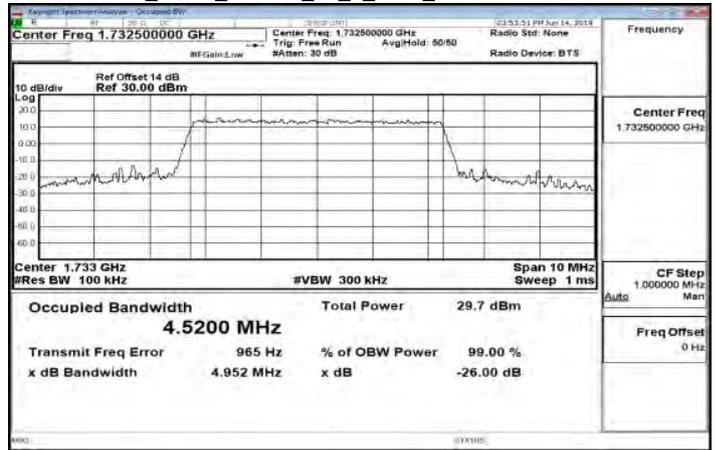
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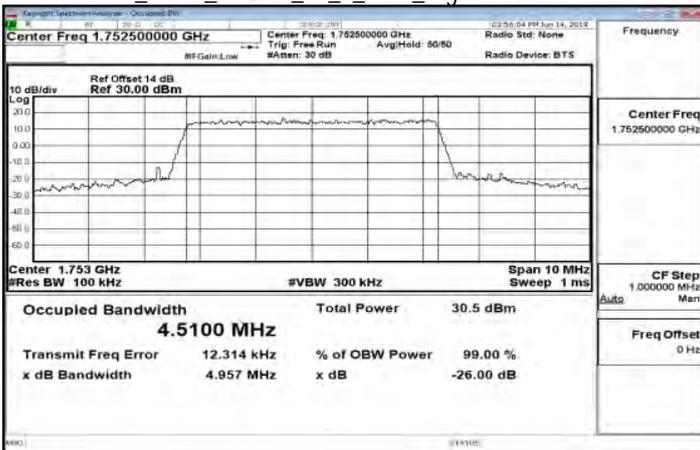
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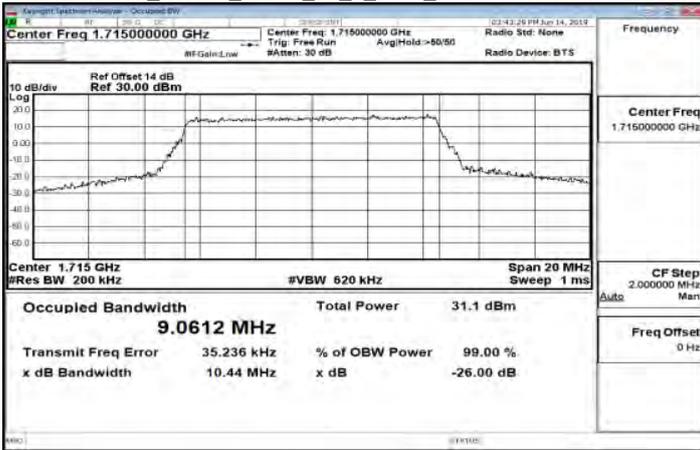
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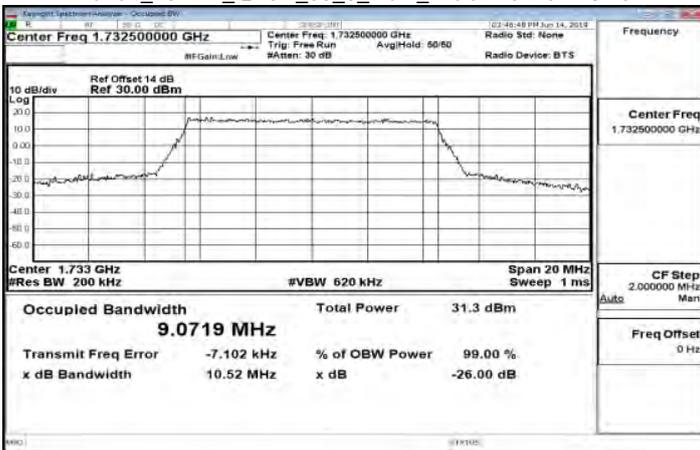
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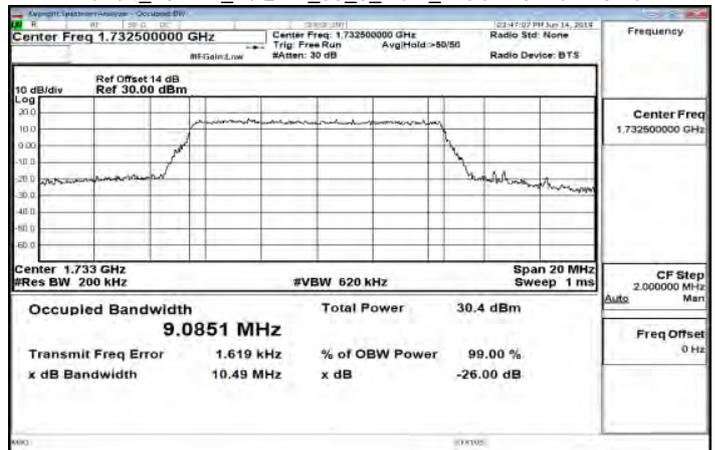
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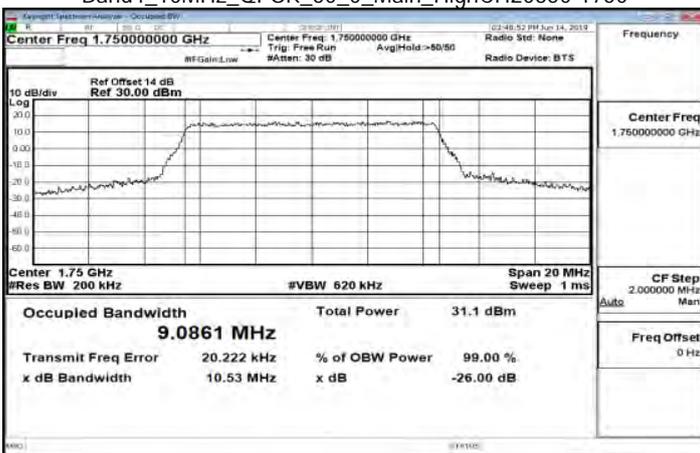
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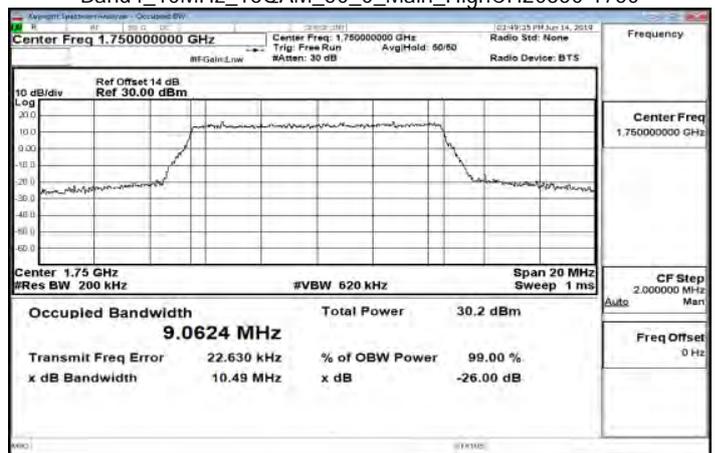
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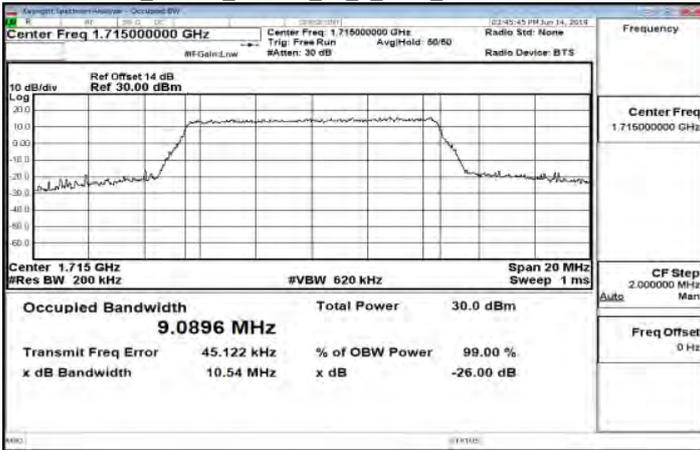
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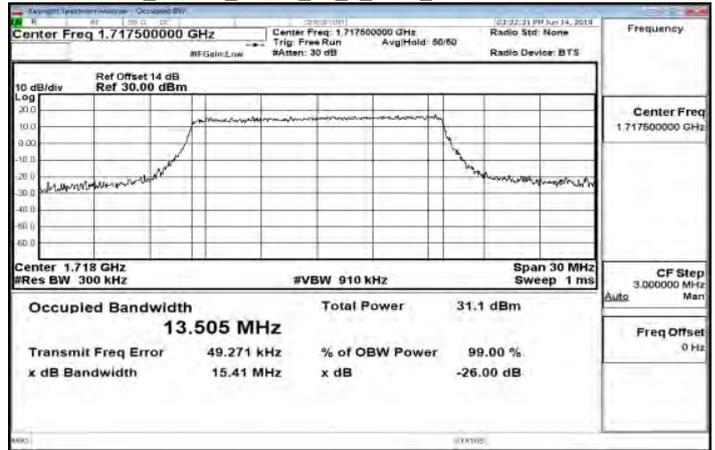
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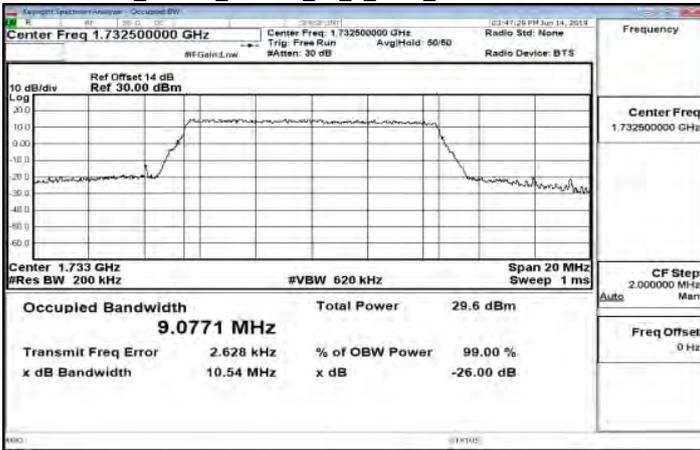
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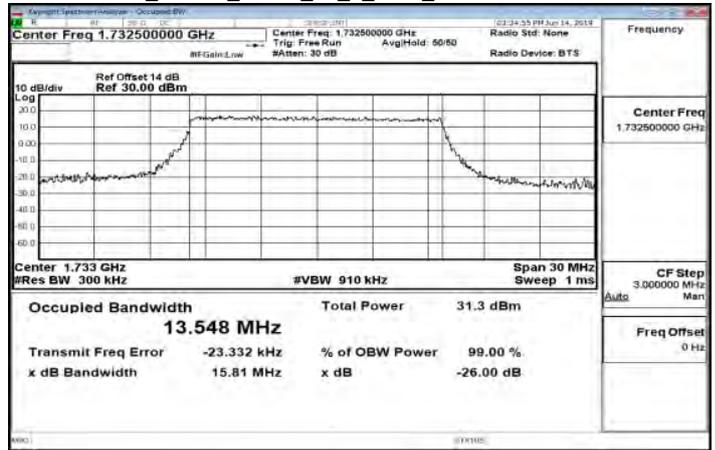
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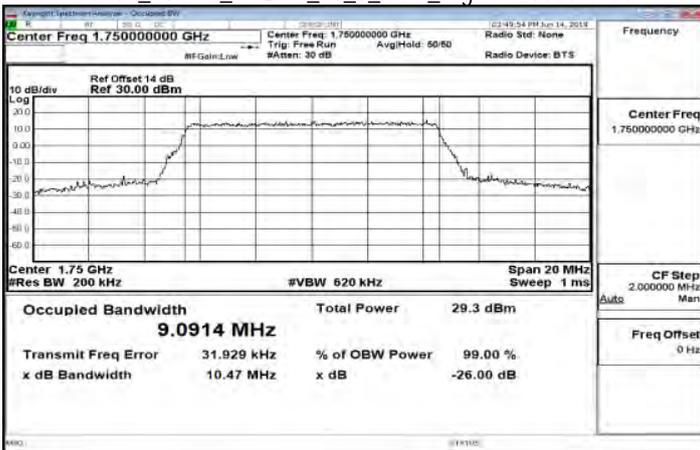
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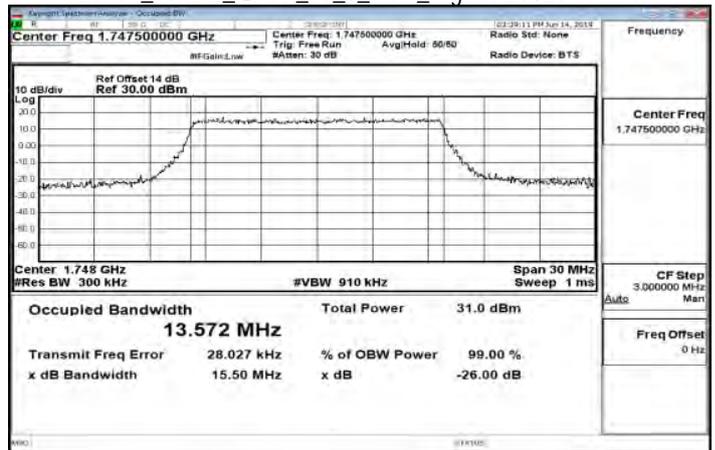
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Band4_10MHz_64QAM_50_0_Main_HighCH20350-1750



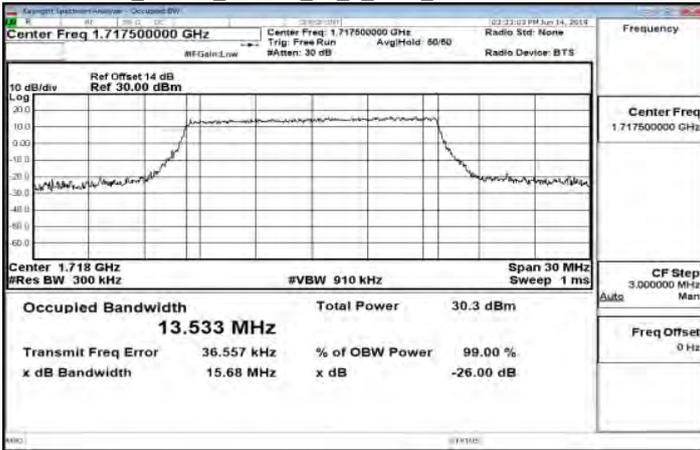
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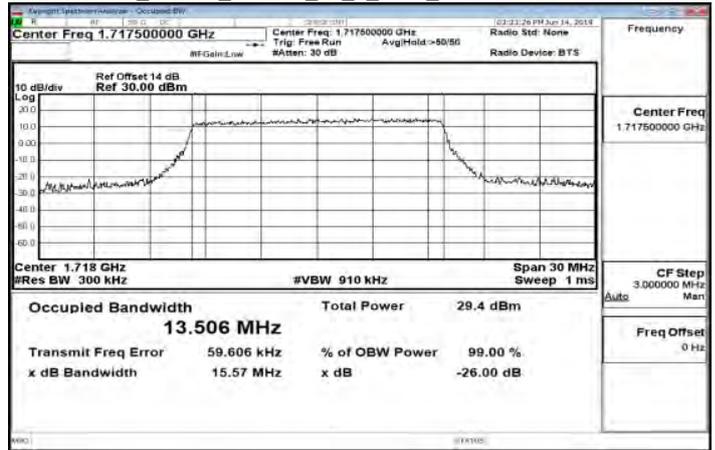
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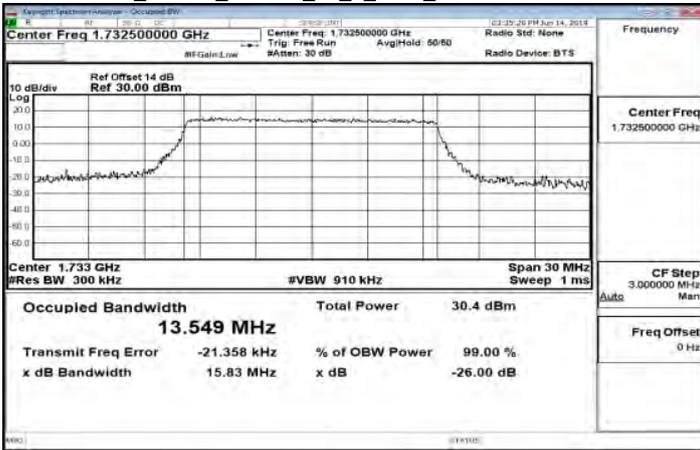
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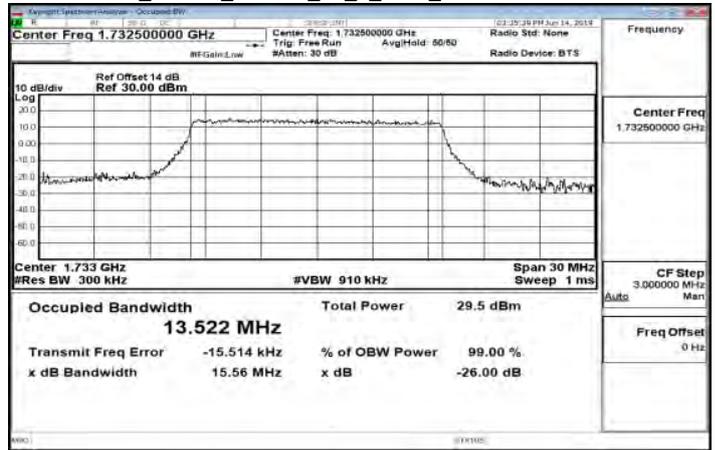
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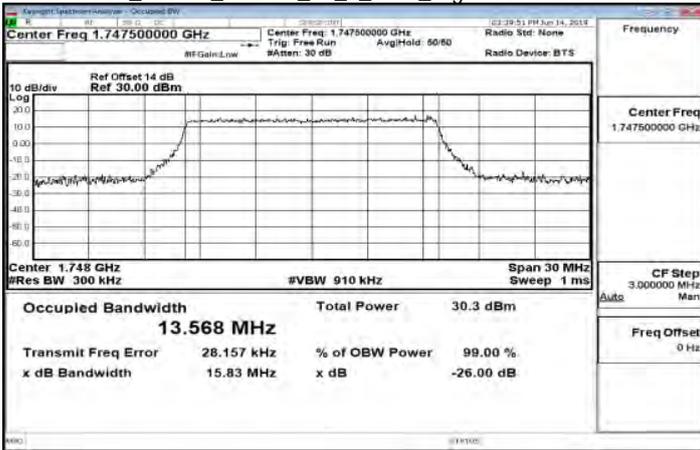
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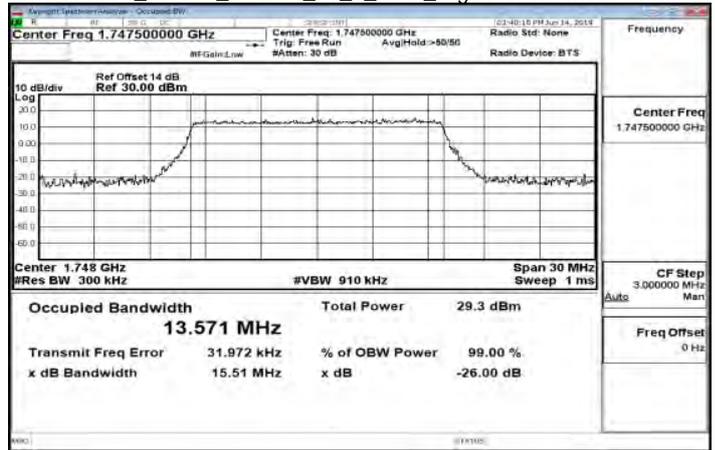
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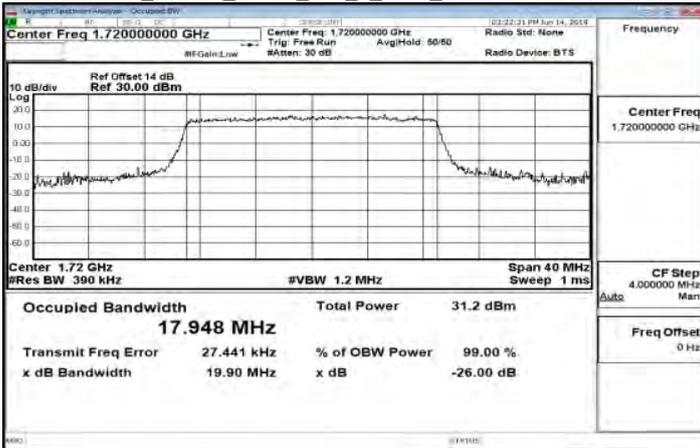
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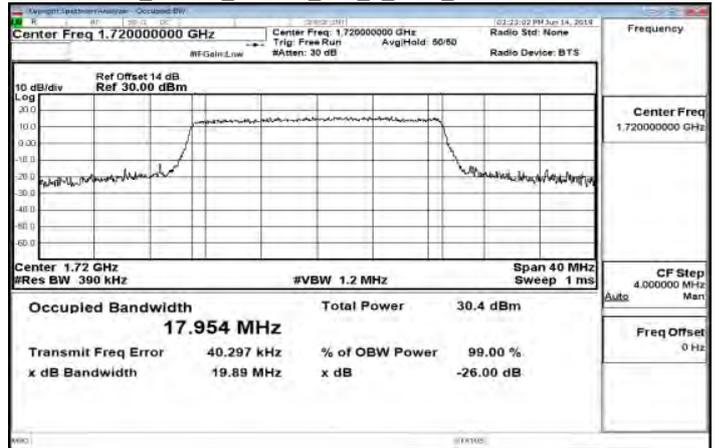
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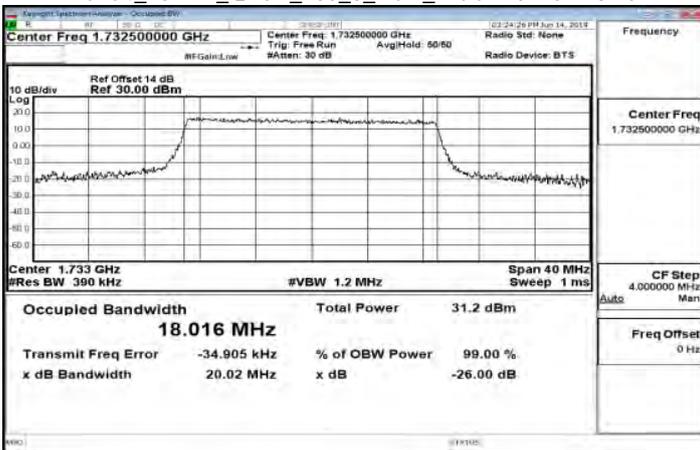
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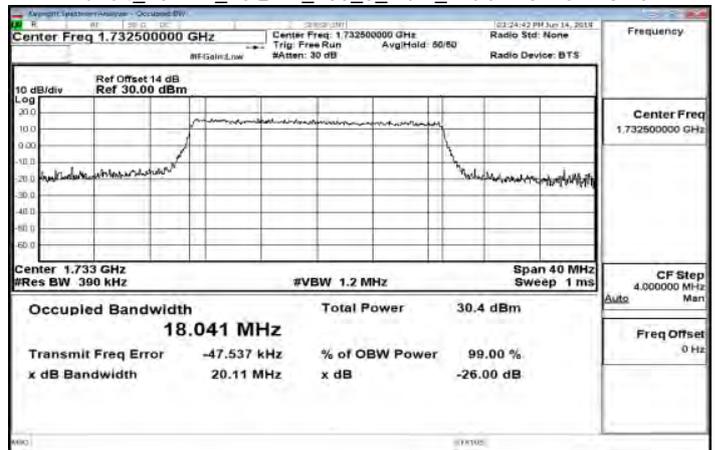
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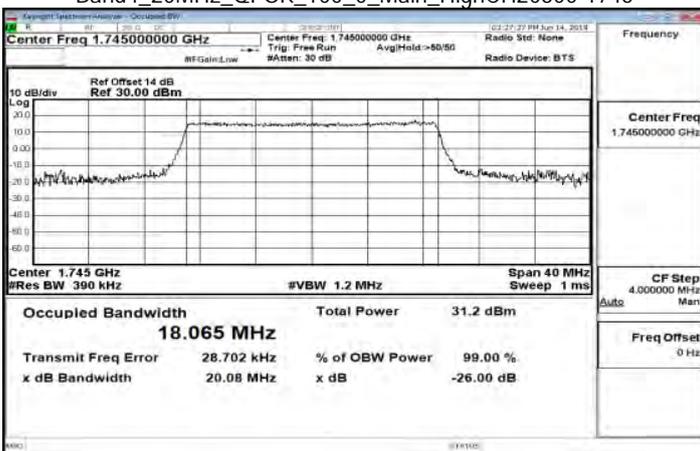
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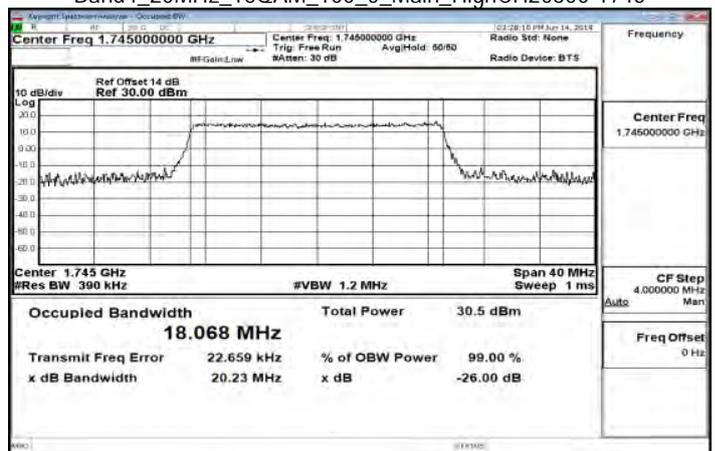
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Band4_20MHz_QPSK_100_0_Main_HighCH20300-1745



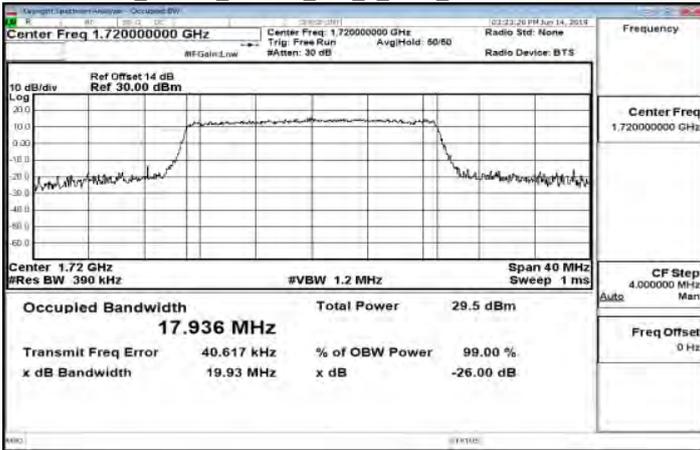
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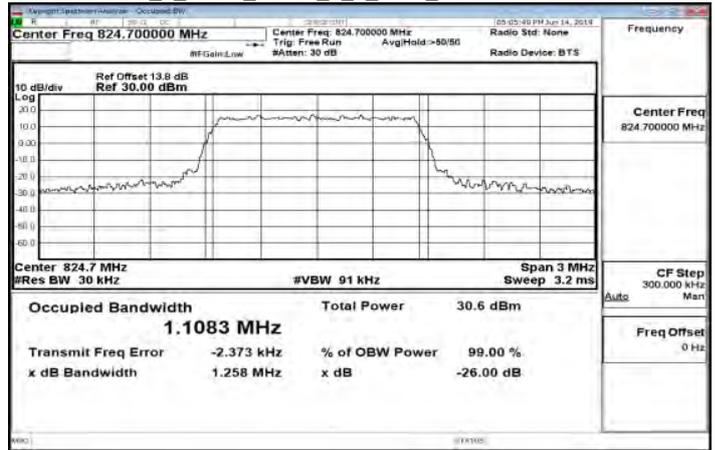
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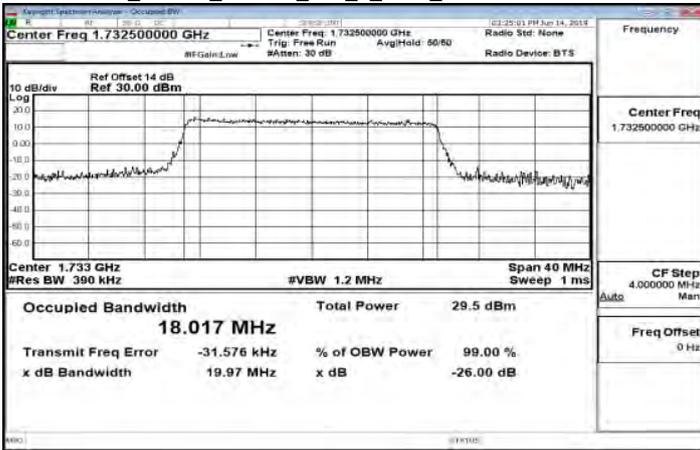
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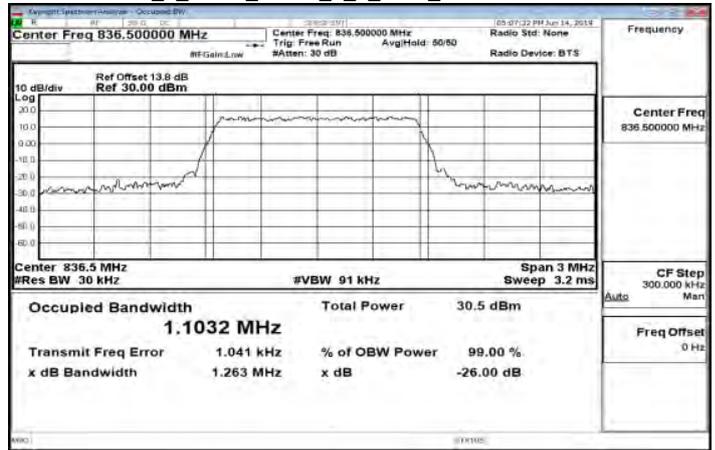
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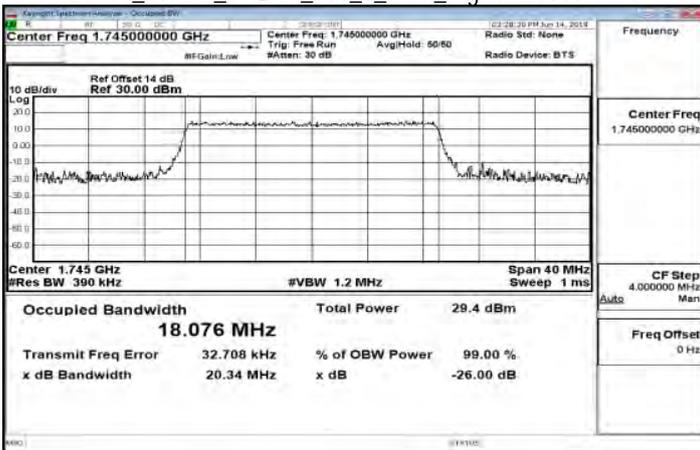
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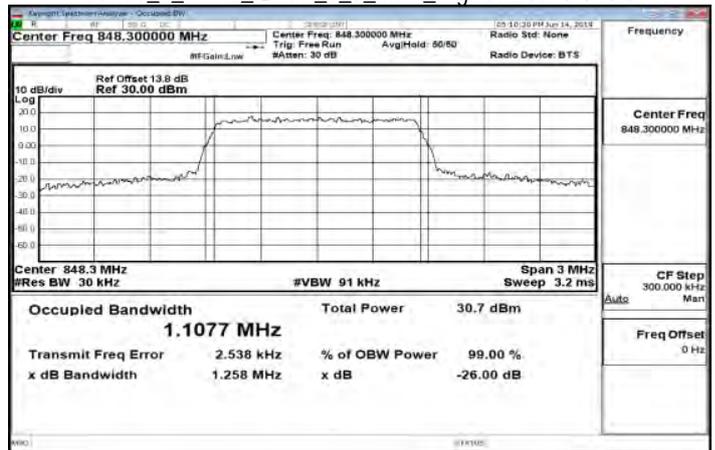
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Band4_20MHz_64QAM_100_0_Main_HighCH20300-1745



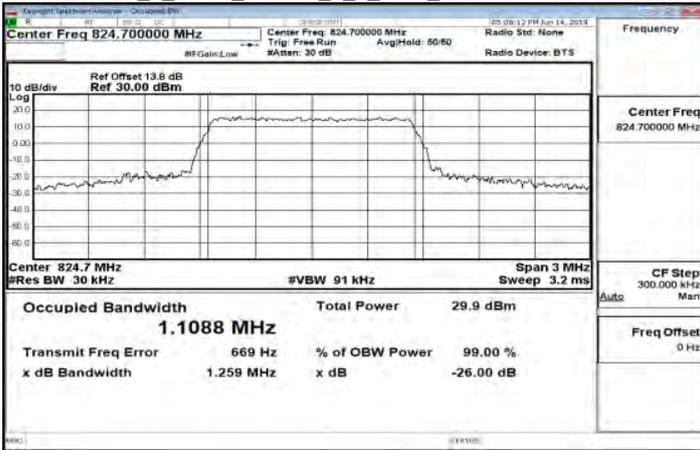
Band5_1_4MHz_QPSK_6_0_Main_HighCH20643-848.3



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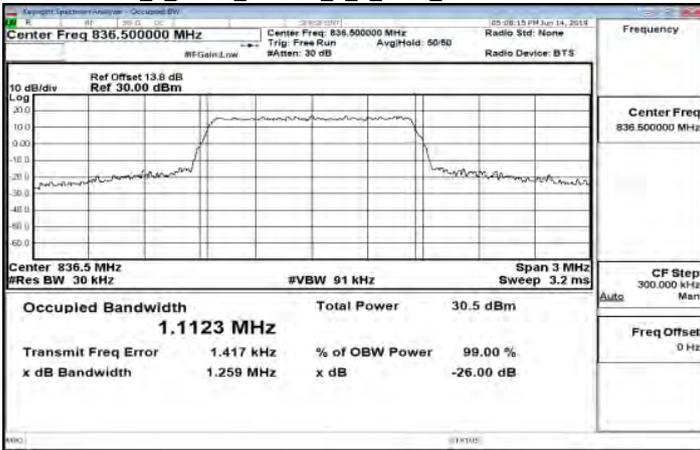
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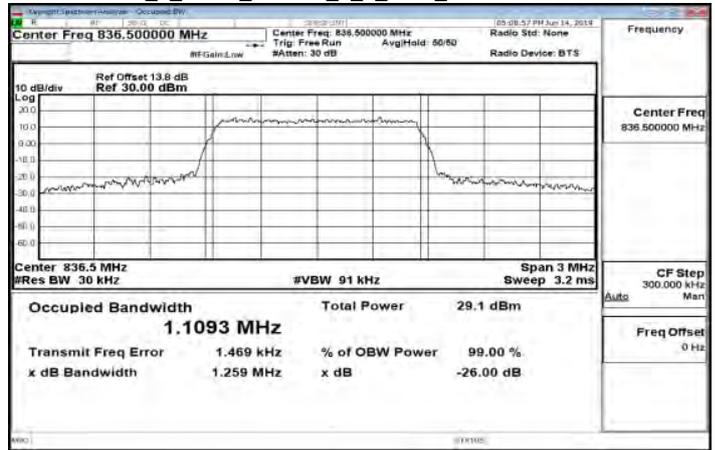
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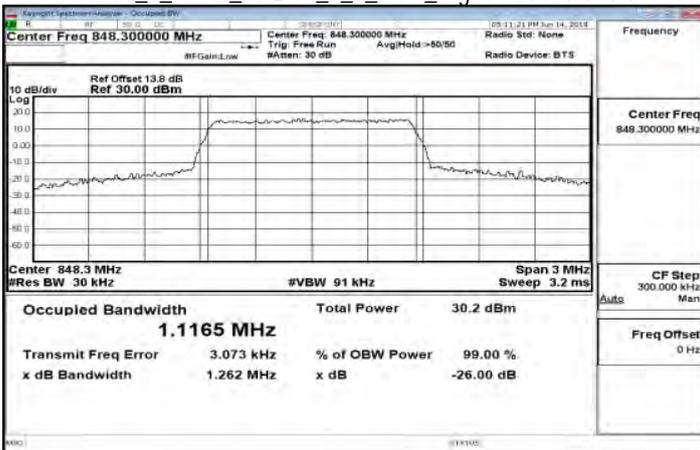
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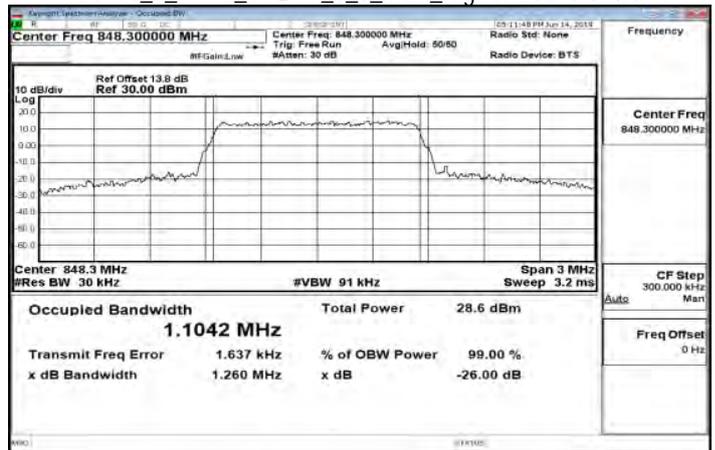
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Band5_1_4MHz_16QAM_6_0_Main_HighCH20643-848.3



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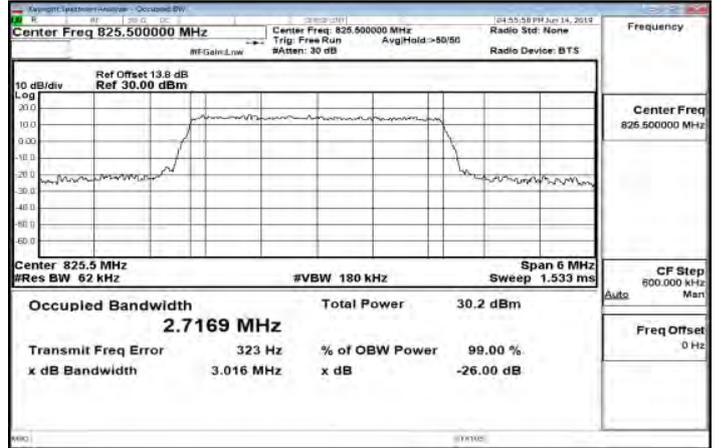
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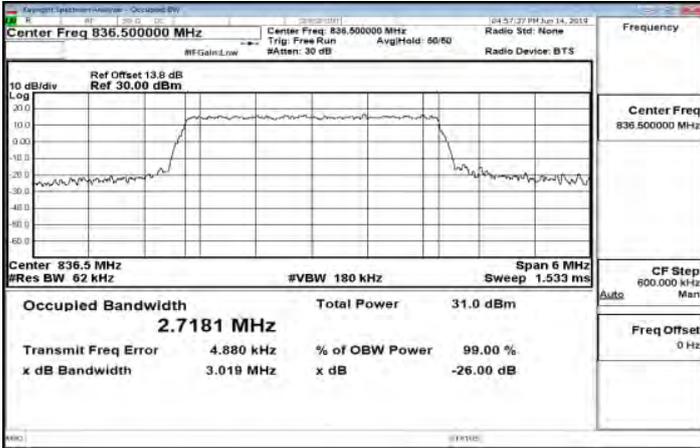
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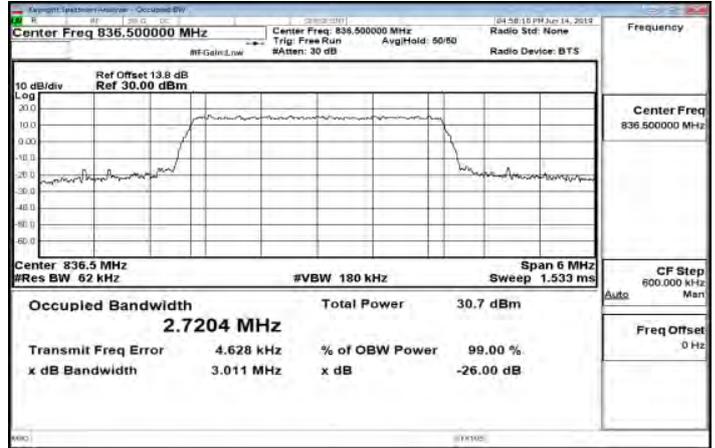
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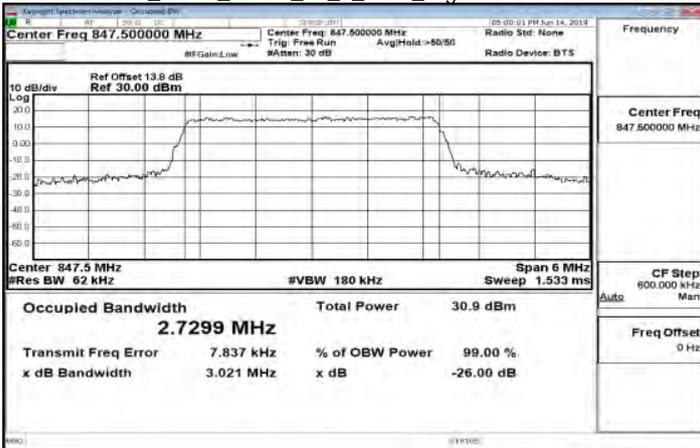
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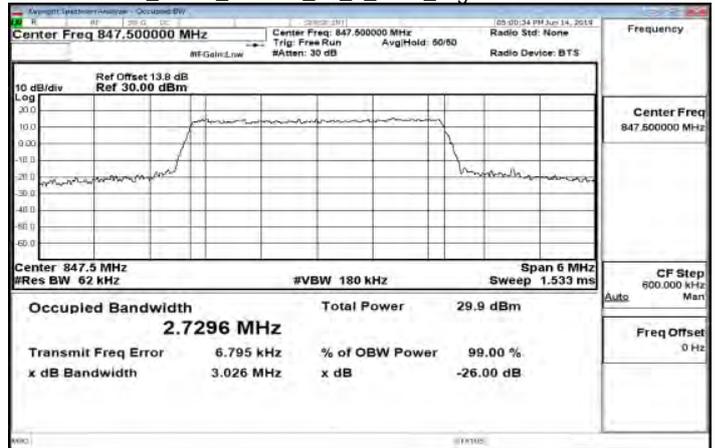
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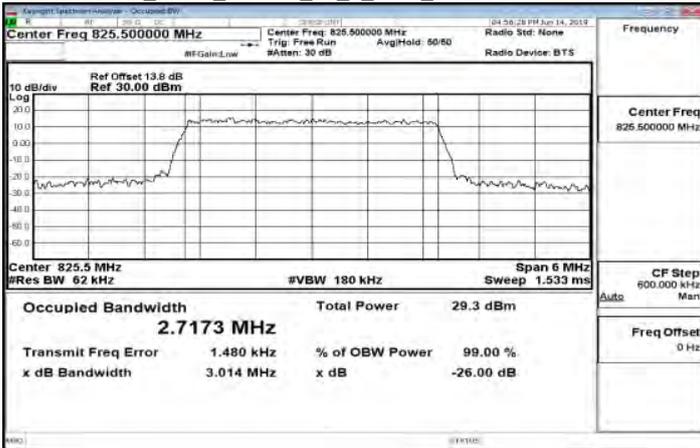
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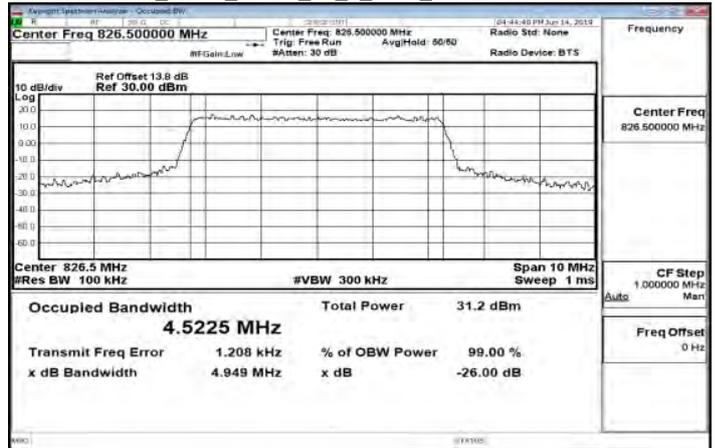
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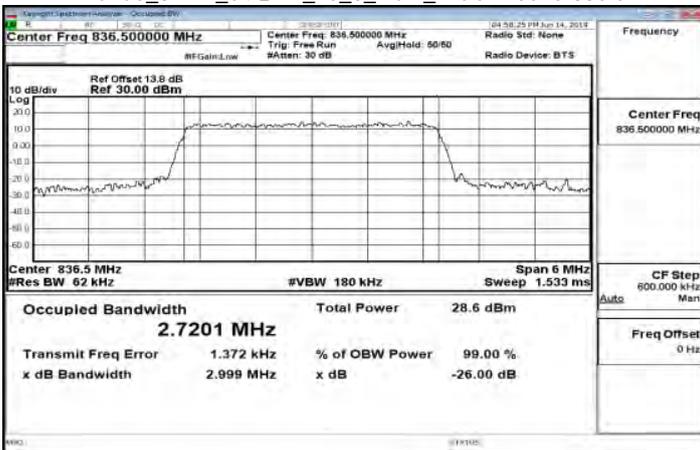
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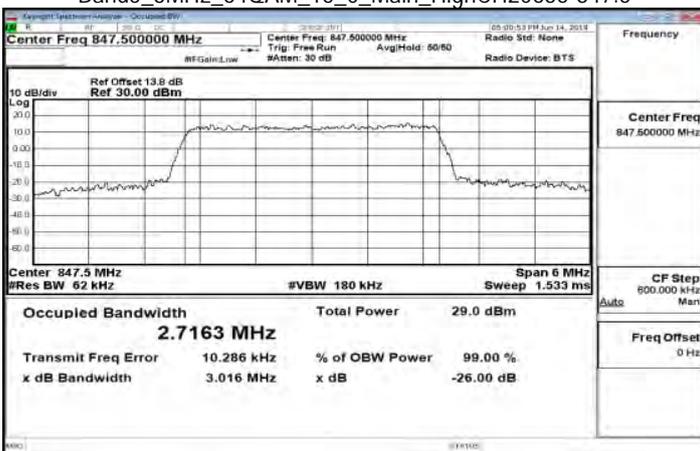
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Band5_3MHz_64QAM_15_0_Main_HighCH20635-847.5



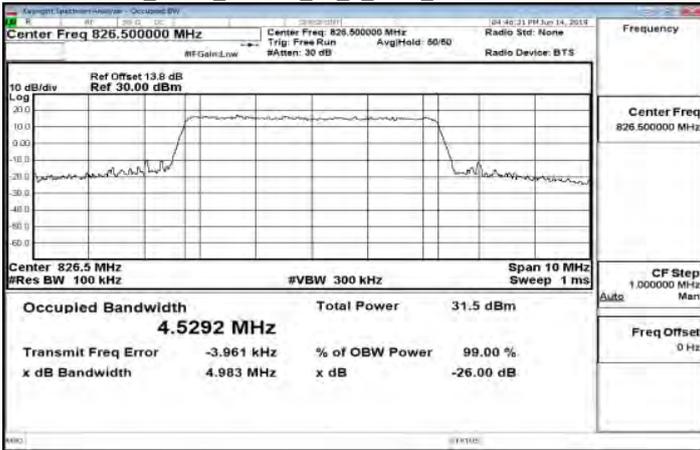
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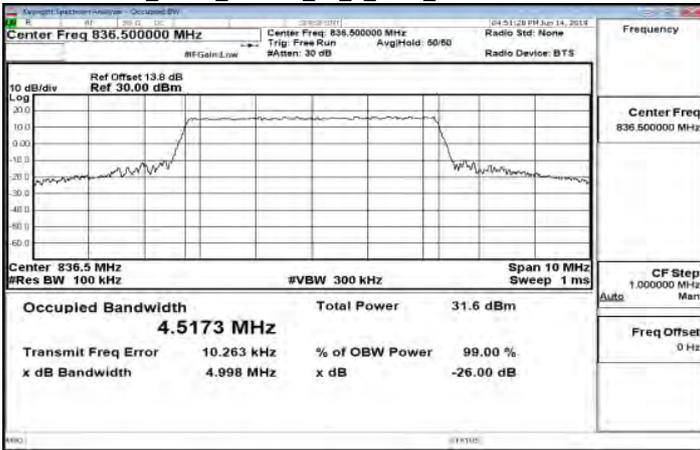
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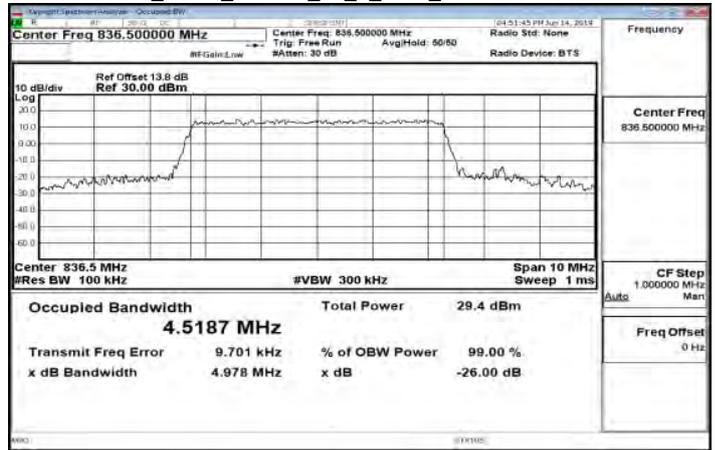
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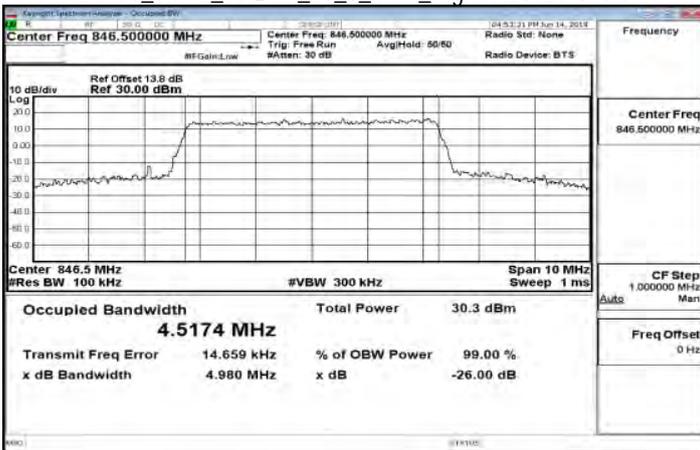
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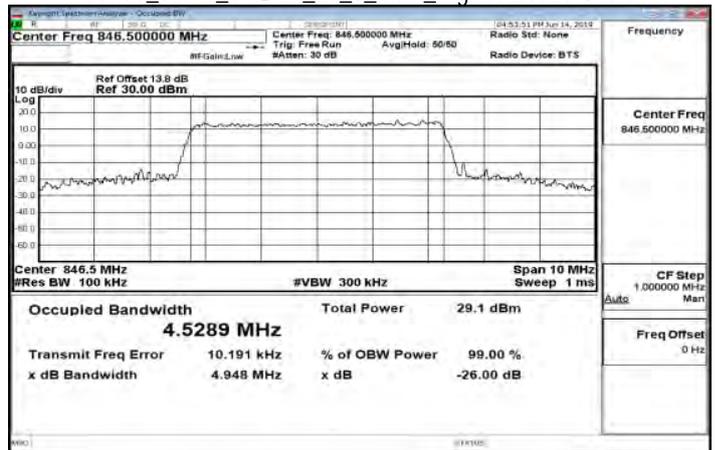
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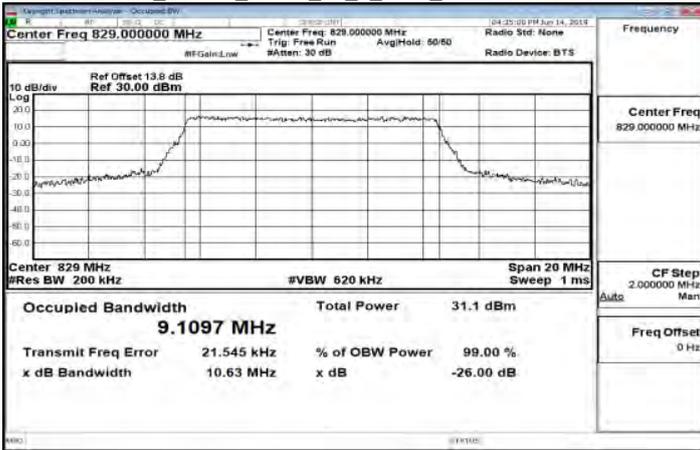
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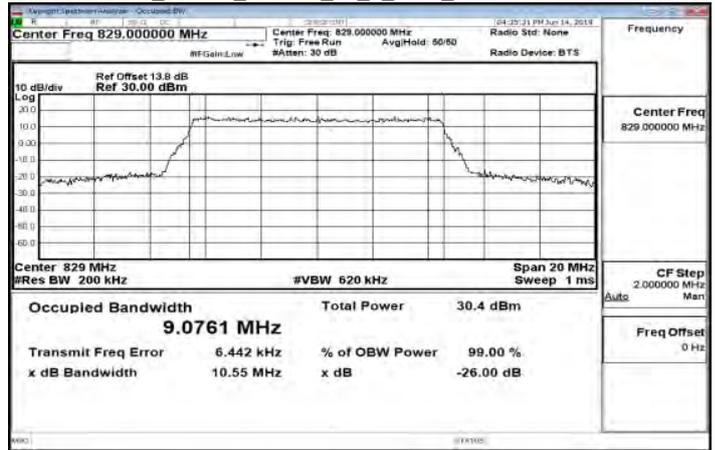
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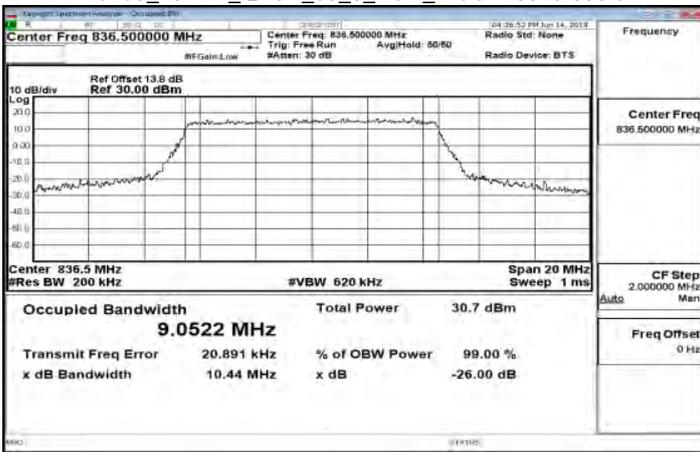
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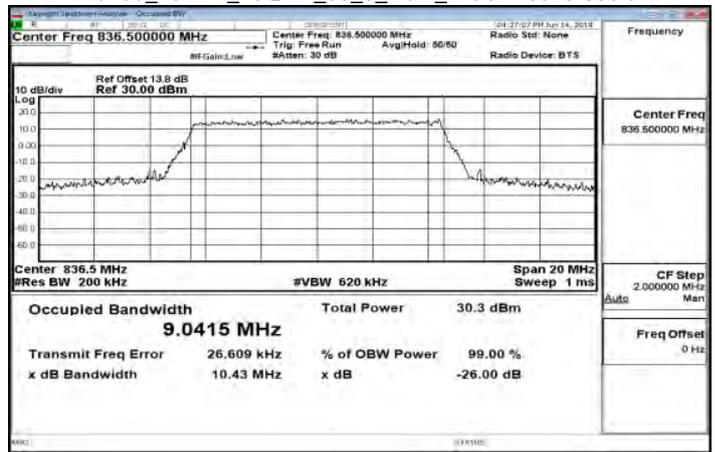
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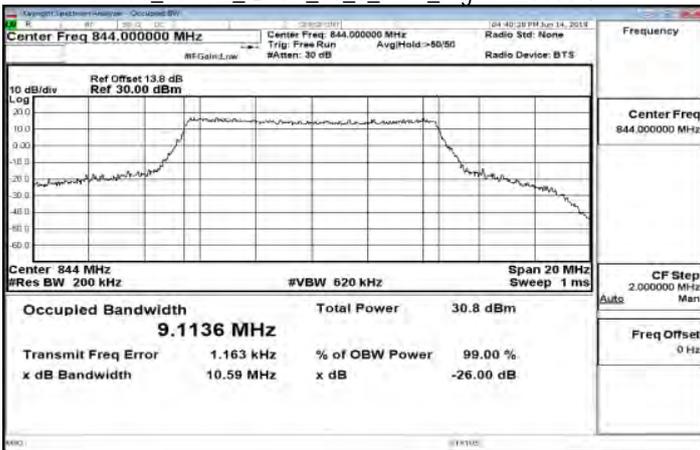
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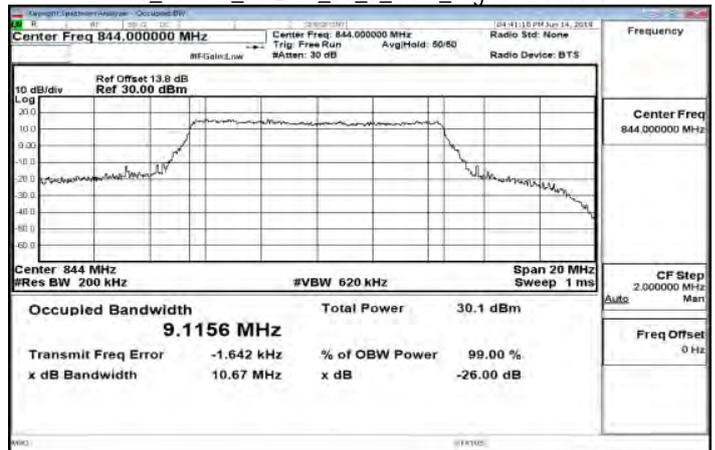
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Band5_10MHz_QPSK_50_0_Main_HighCH20600-844



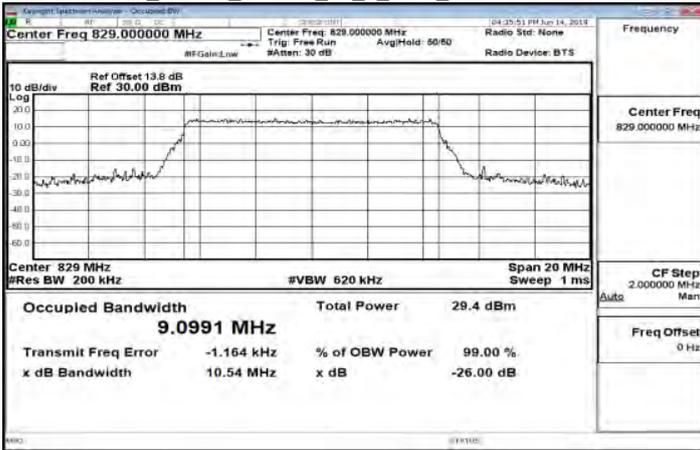
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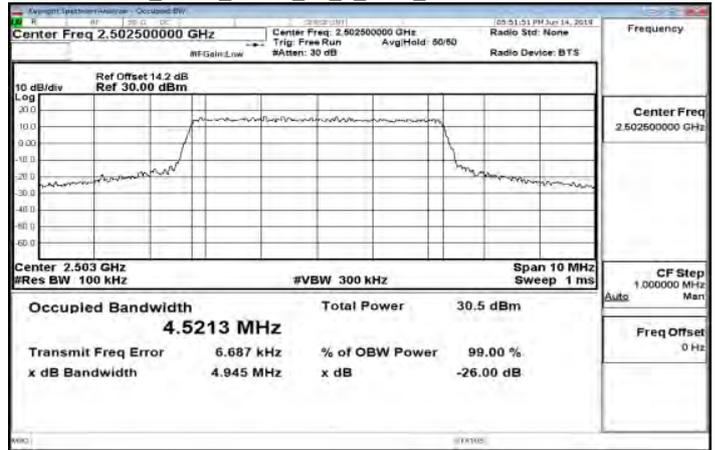
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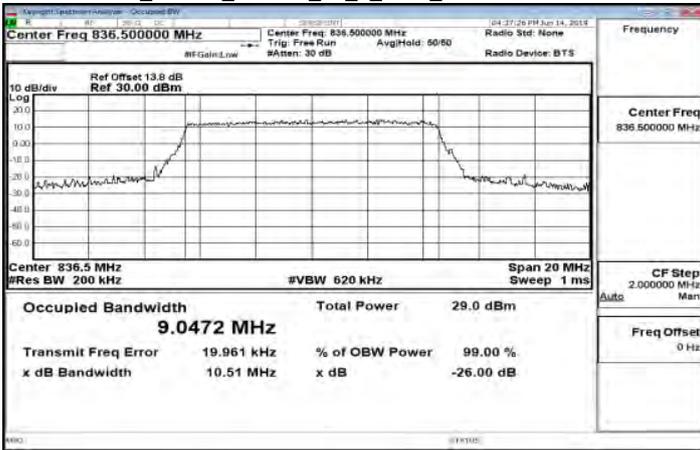
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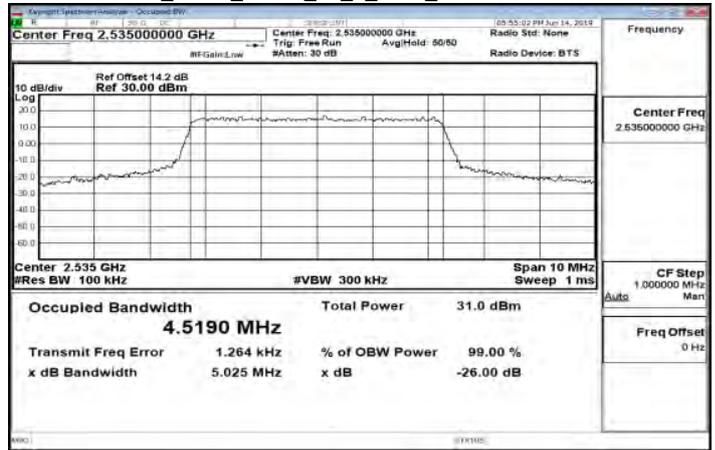
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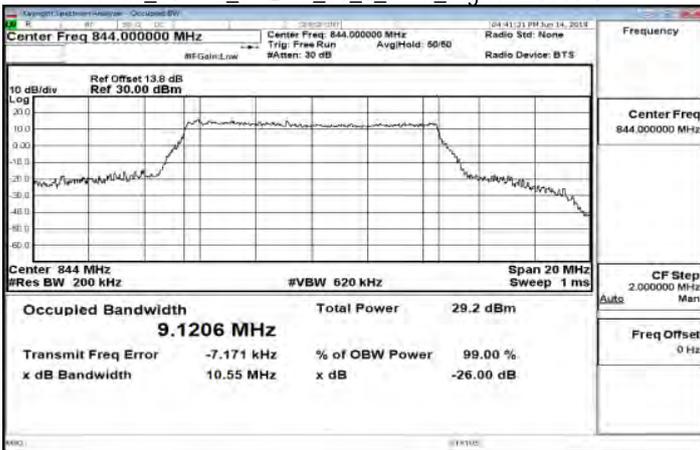
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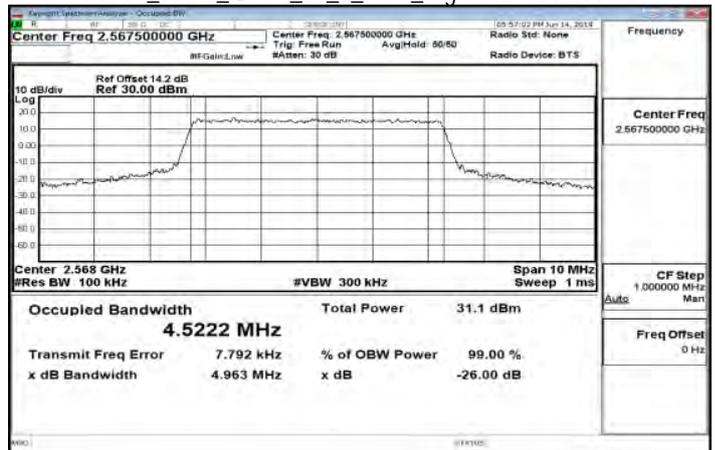
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Band5_10MHz_64QAM_50_0_Main_HighCH20600-844



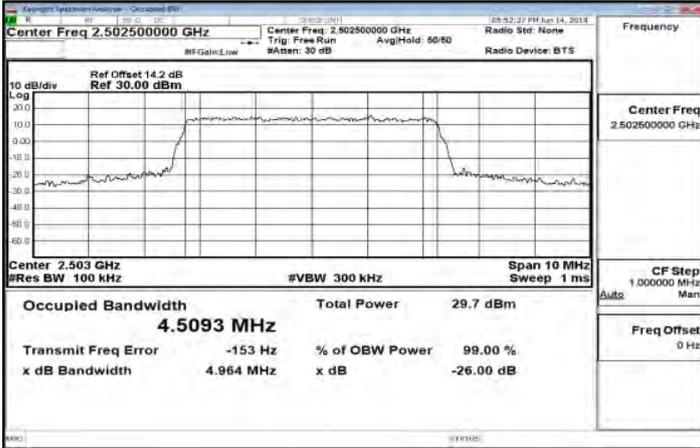
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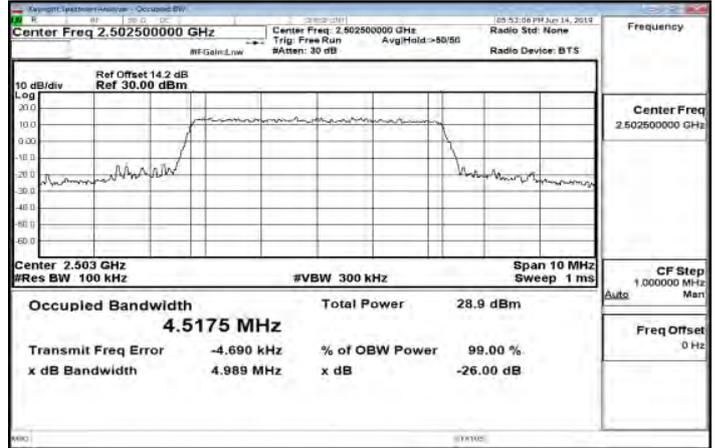
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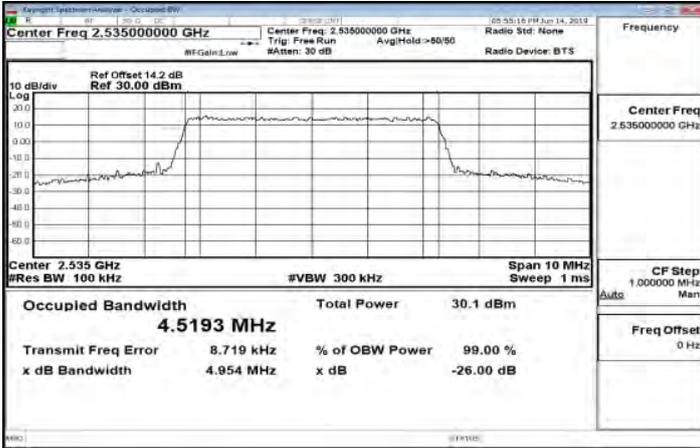
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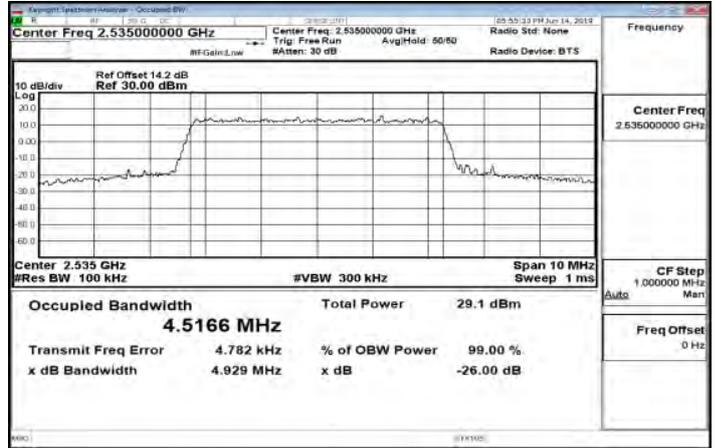
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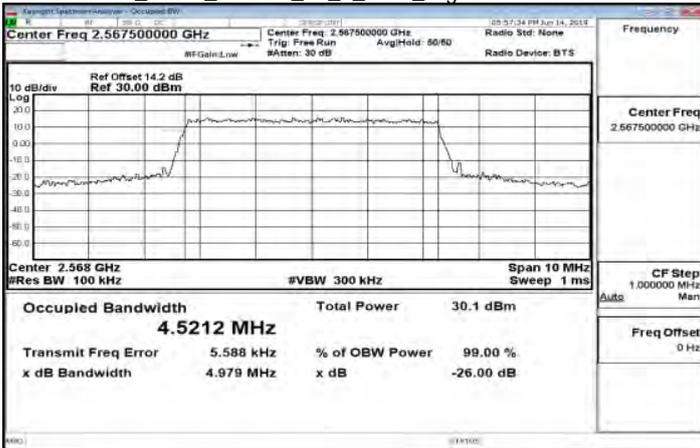
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Band7_5MHz_64QAM_25_0_Main_MidCH21100-2535



Band7_5MHz_16QAM_25_0_Main_HighCH21425-2567.5



Band7_5MHz_64QAM_25_0_Main_HighCH21425-2567.5



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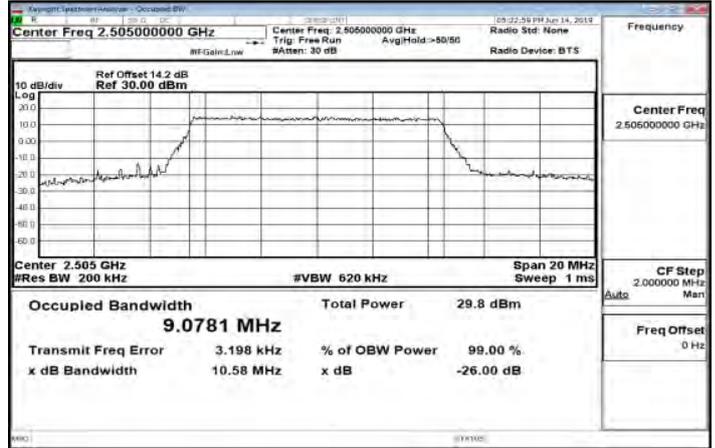
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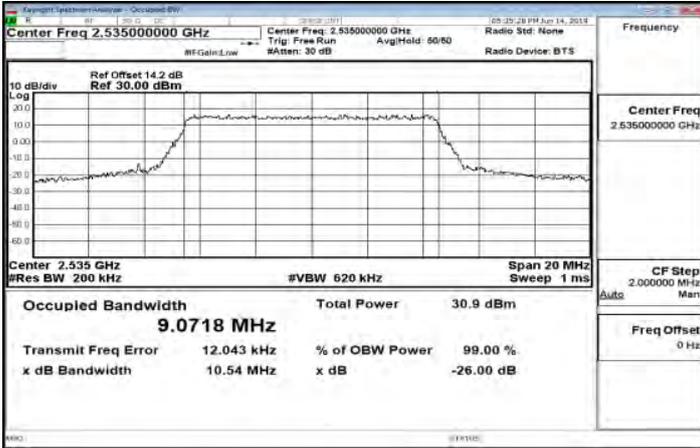
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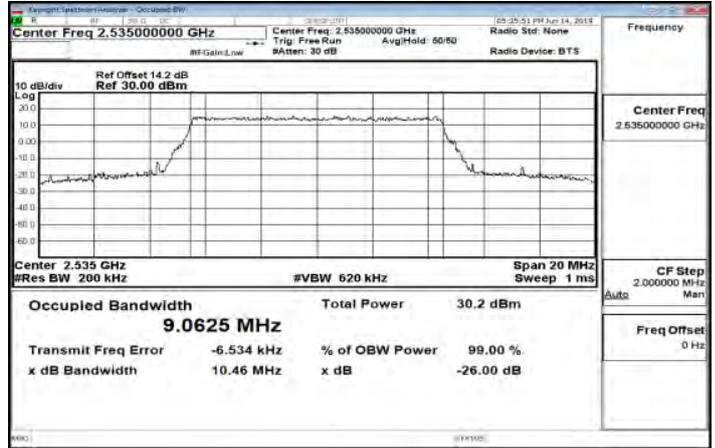
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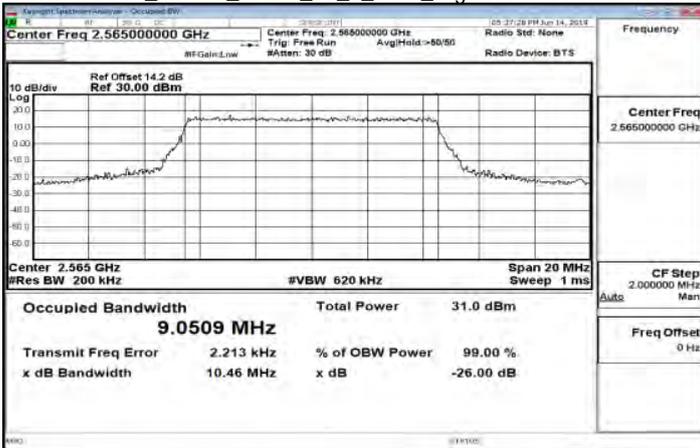
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Band7_10MHz_16QAM_50_0_Main_MidCH21100-2535



Band7_10MHz_QPSK_50_0_Main_HighCH21400-2565



Band7_10MHz_16QAM_50_0_Main_HighCH21400-2565

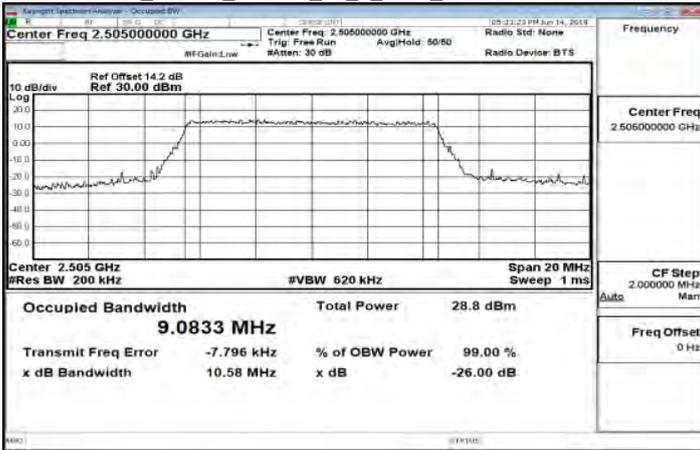


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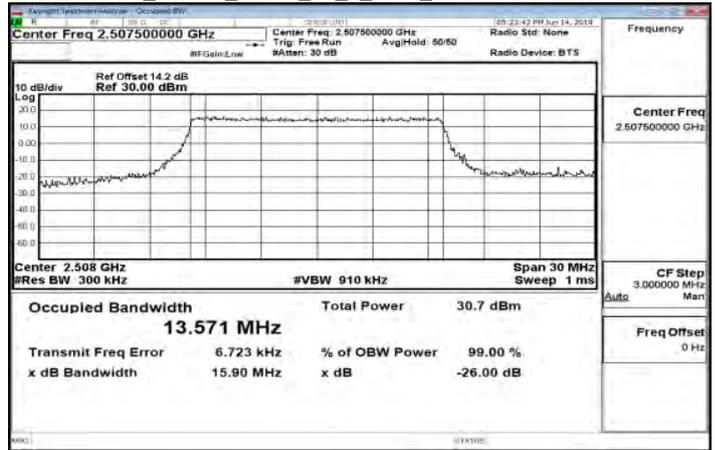
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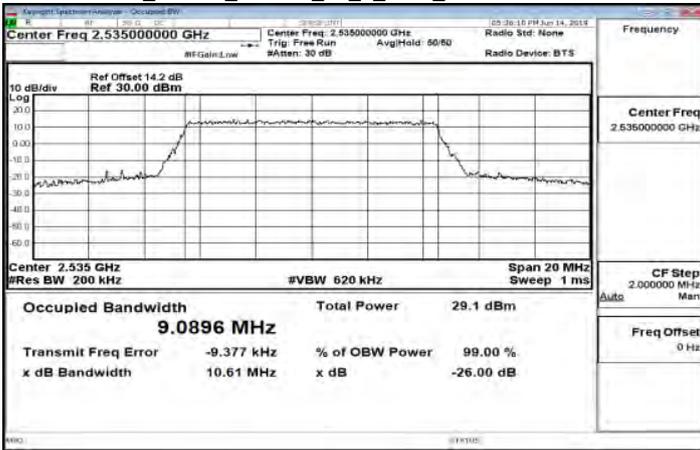
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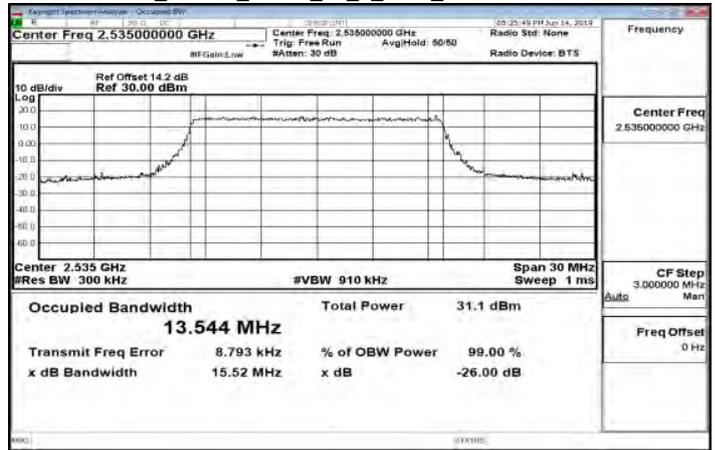
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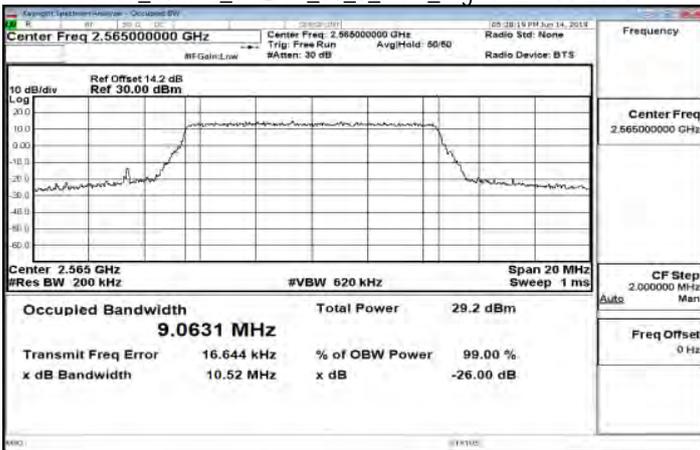
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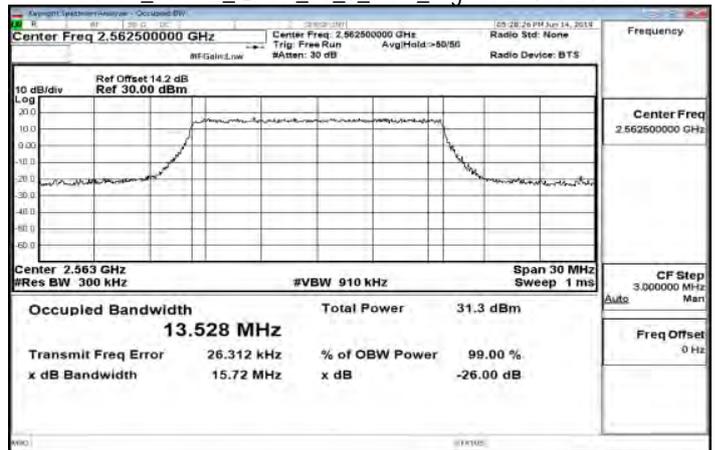
Band7_15MHz_QPSK_75_0_Main_MidCH21100-2535



Band7_10MHz_64QAM_50_0_Main_HighCH21400-2565



Band7_15MHz_QPSK_75_0_Main_HighCH21375-2562.5

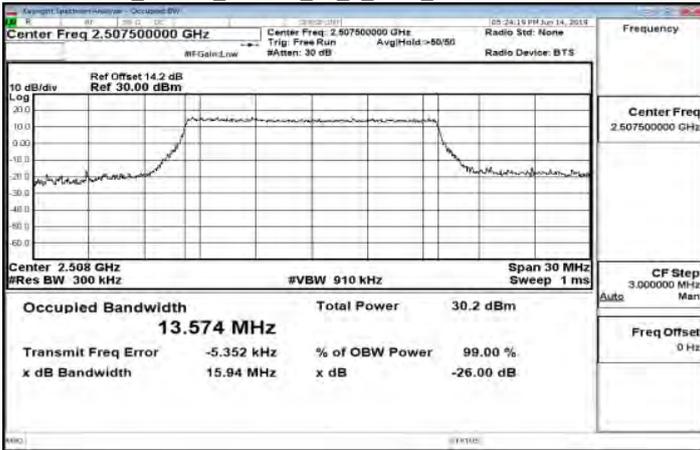


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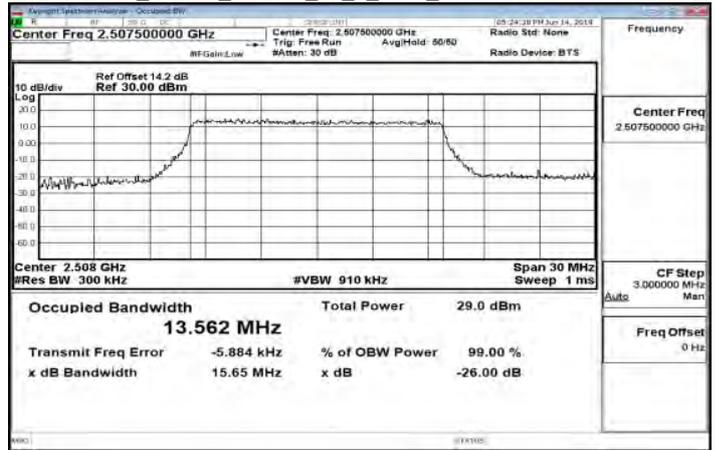
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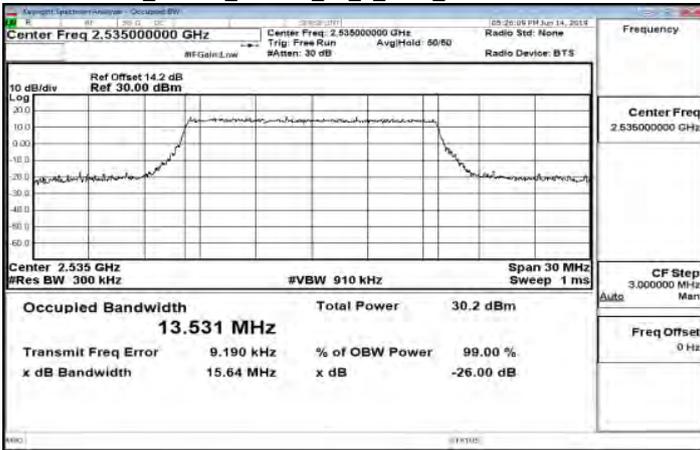
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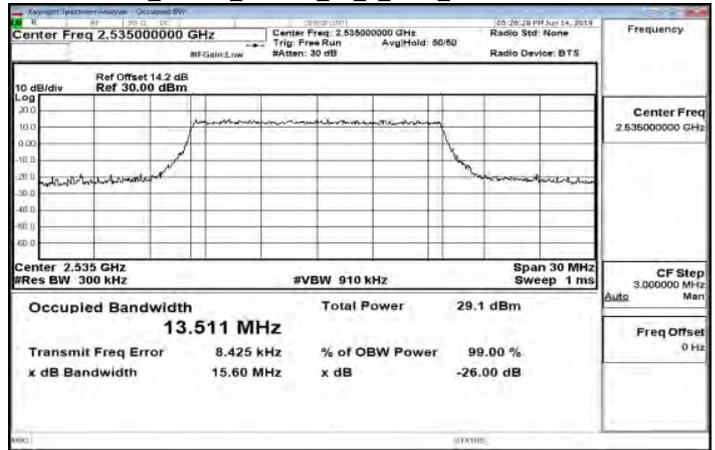
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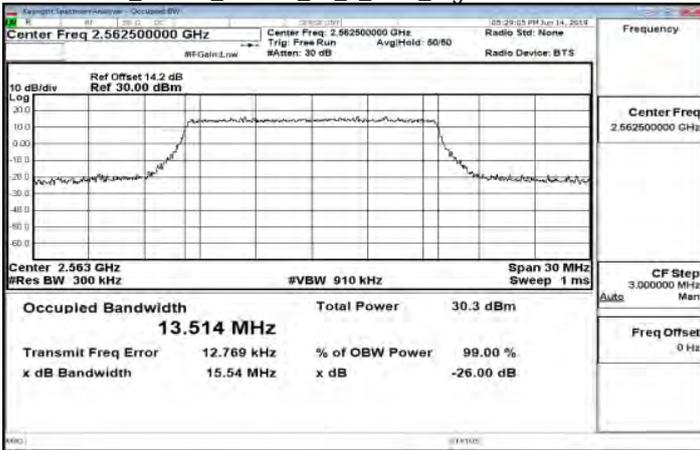
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Band7_15MHz_64QAM_75_0_Main_MidCH21100-2535



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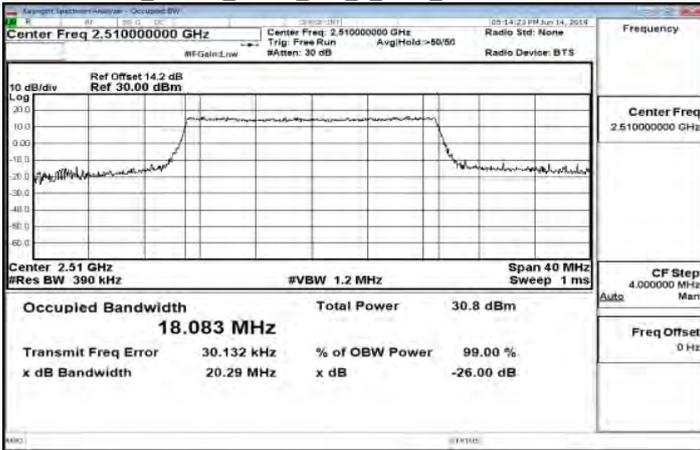


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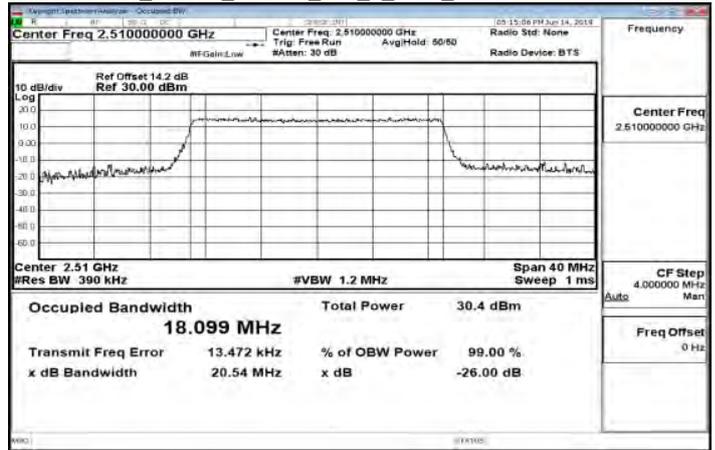
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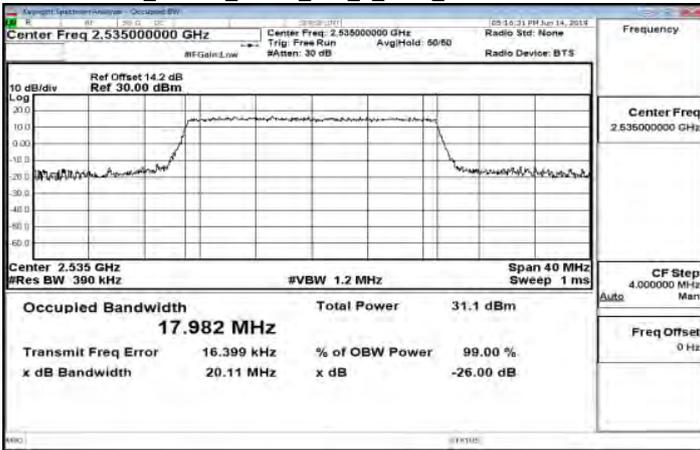
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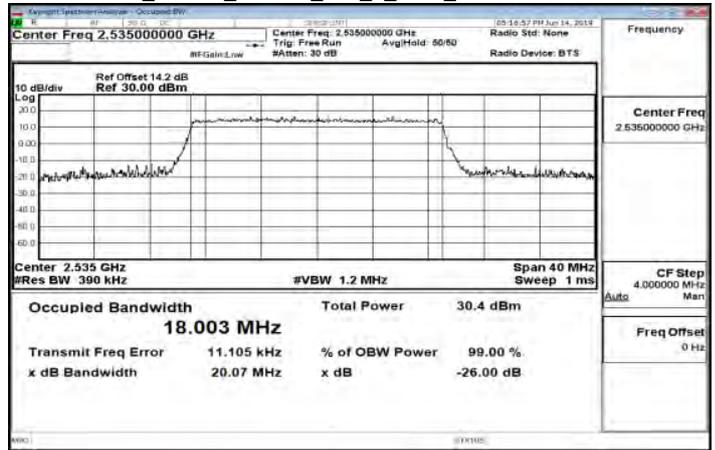
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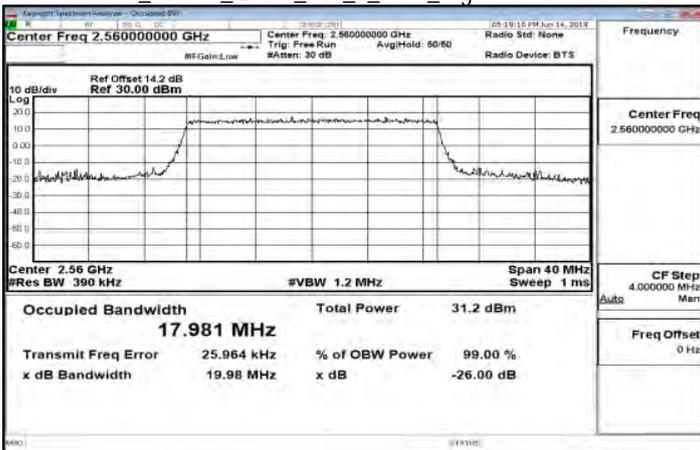
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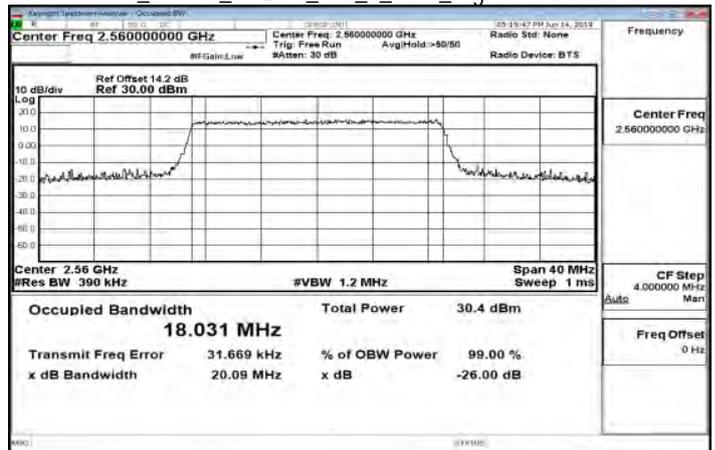
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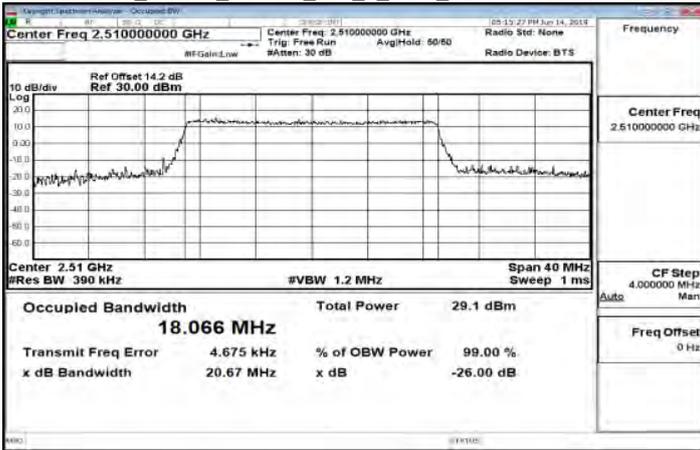


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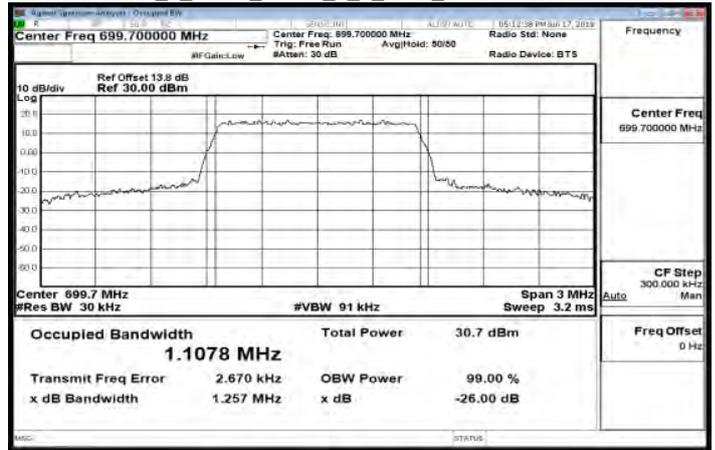
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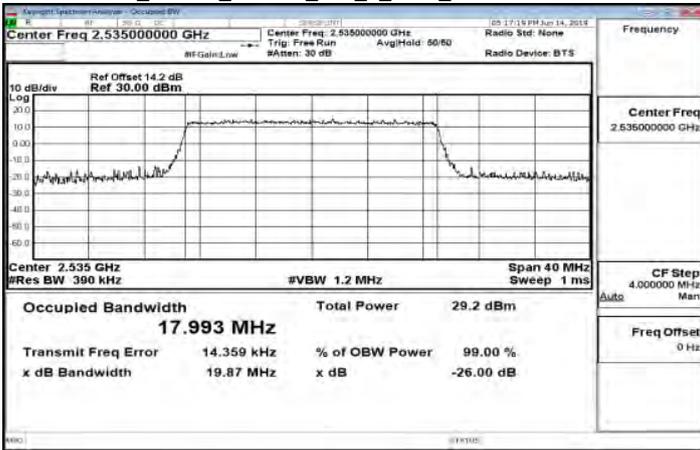
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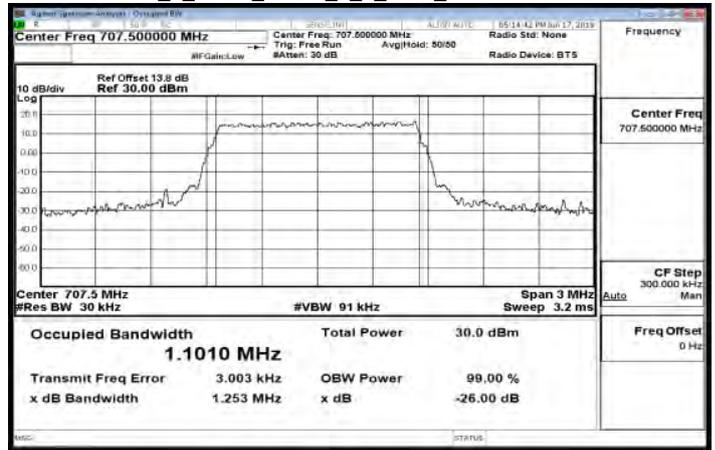
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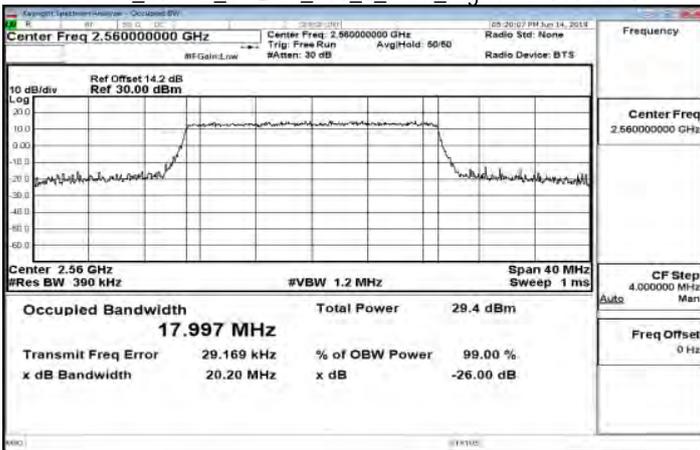
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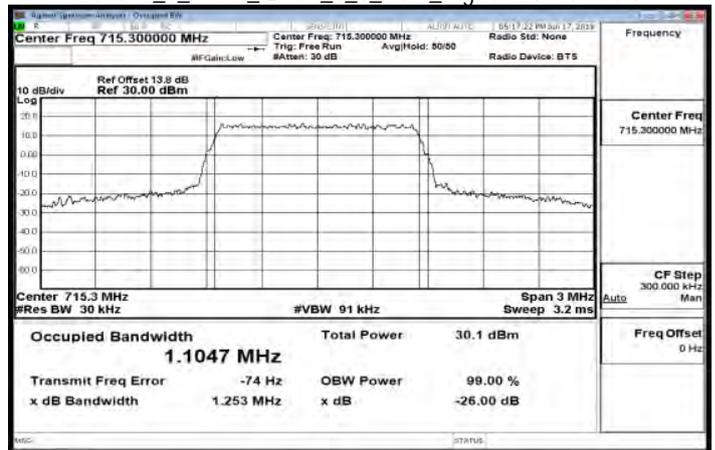
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Band7_20MHz_64QAM_100_0_Main_HighCH21350-2560



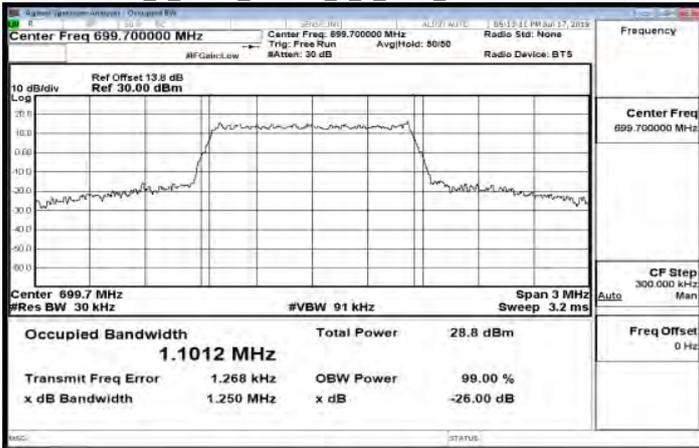
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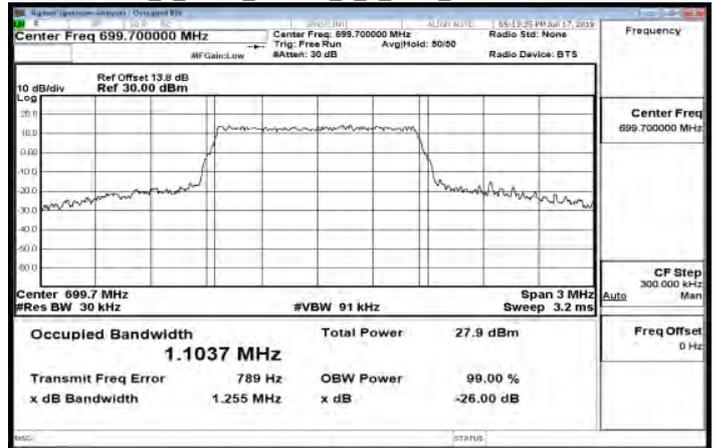
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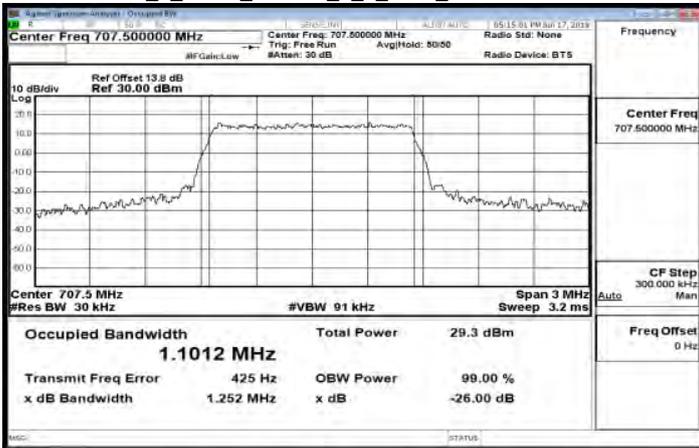
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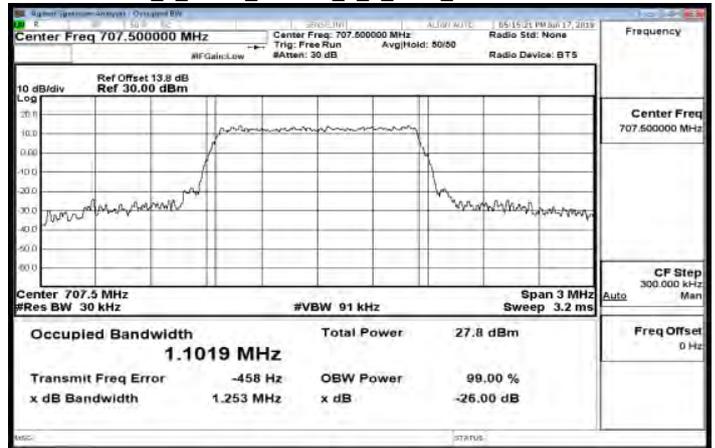
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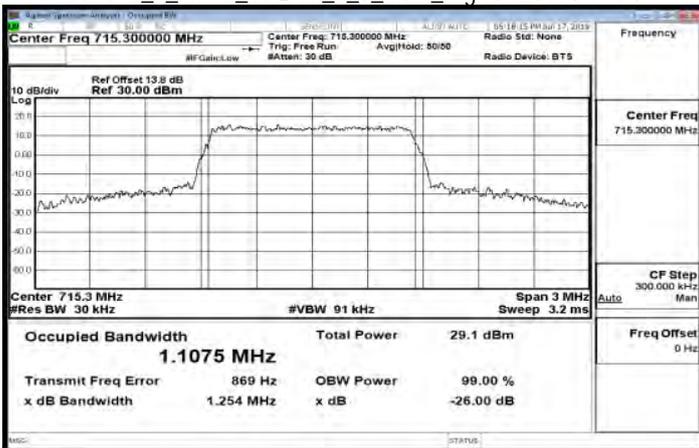
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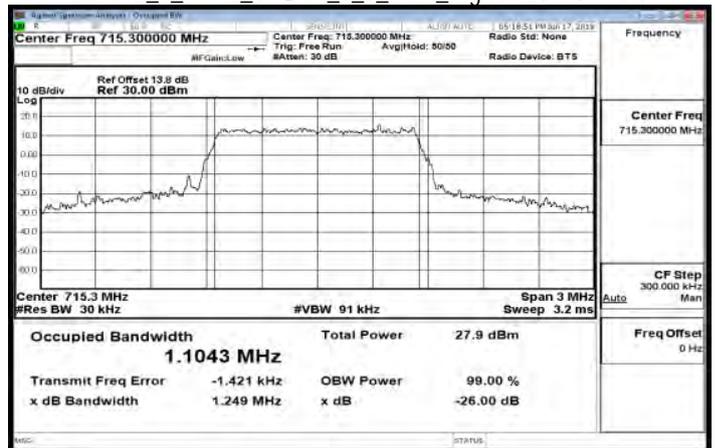
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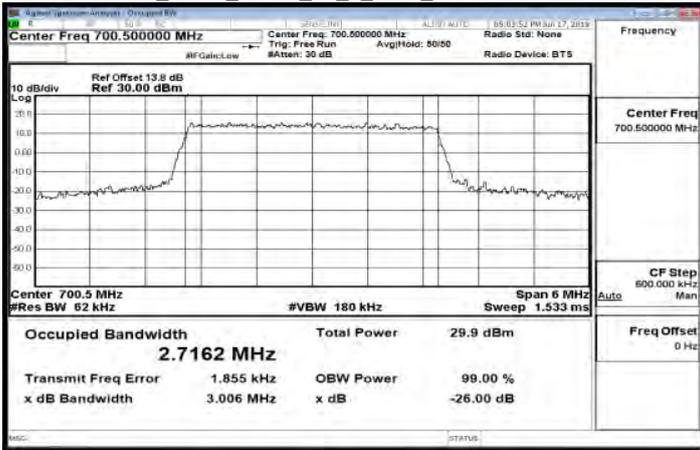
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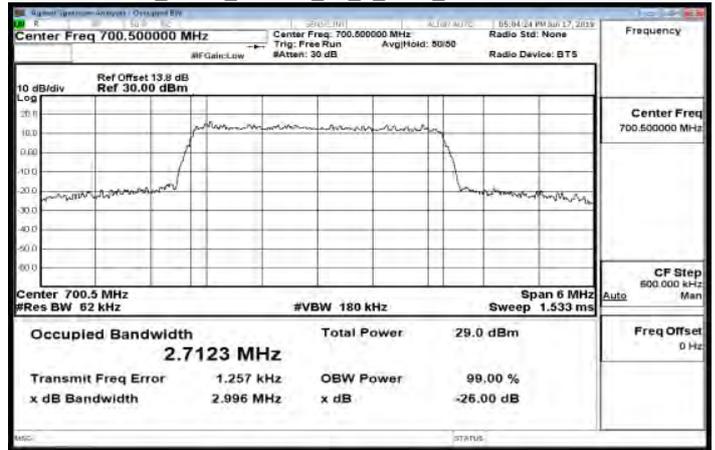
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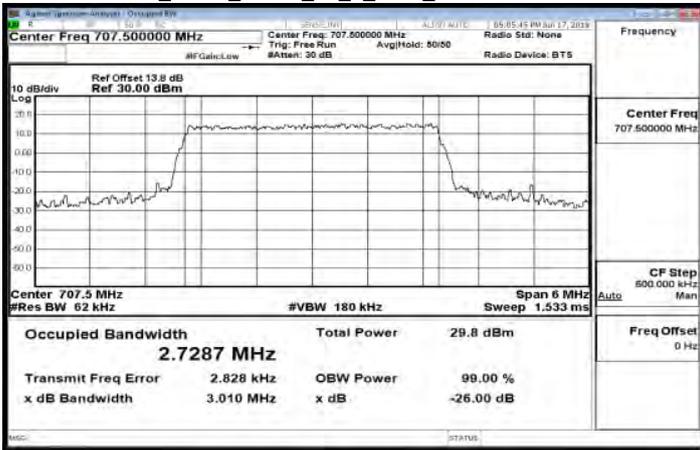
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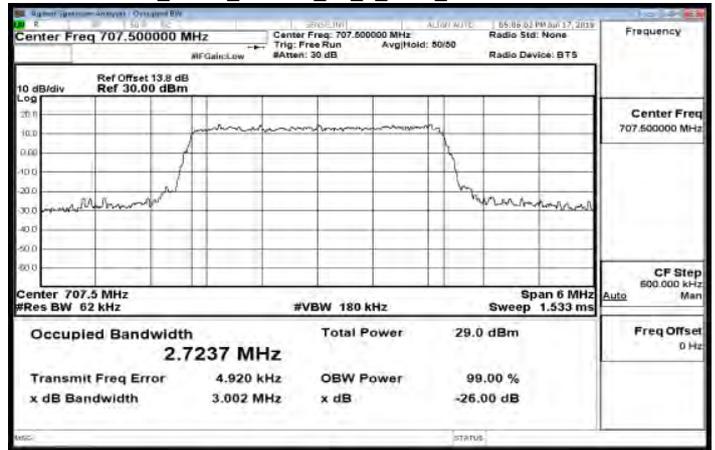
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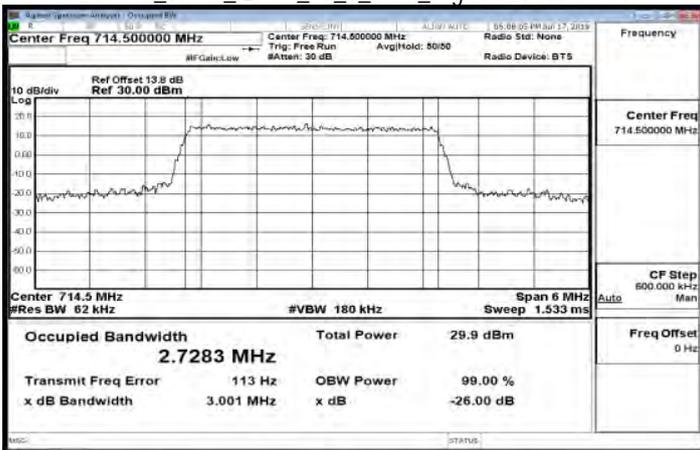
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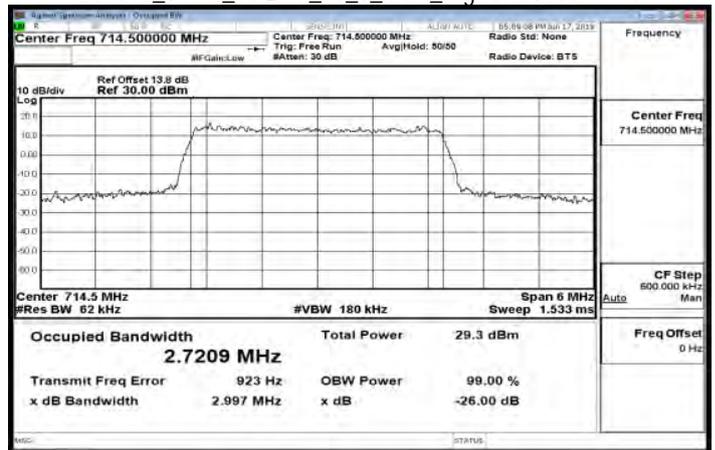
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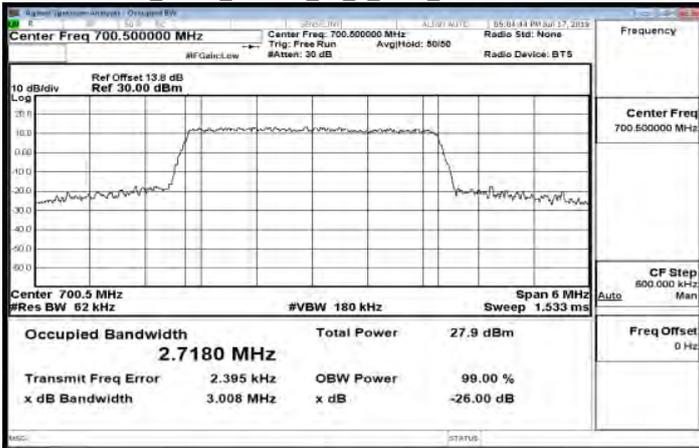


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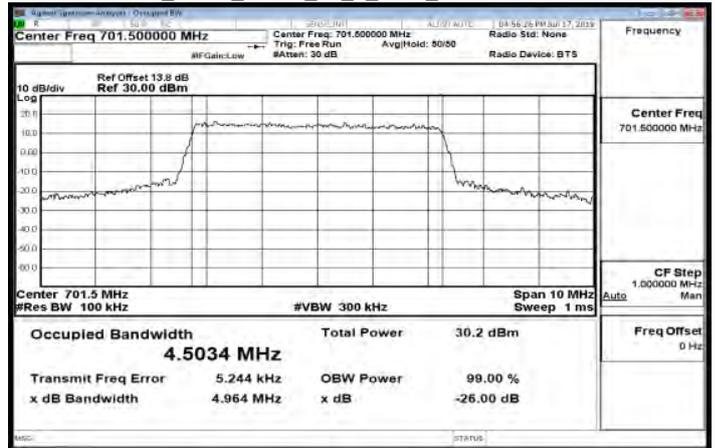
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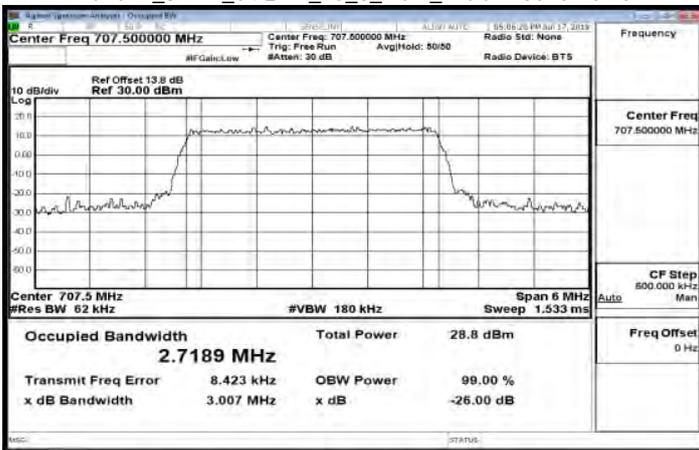
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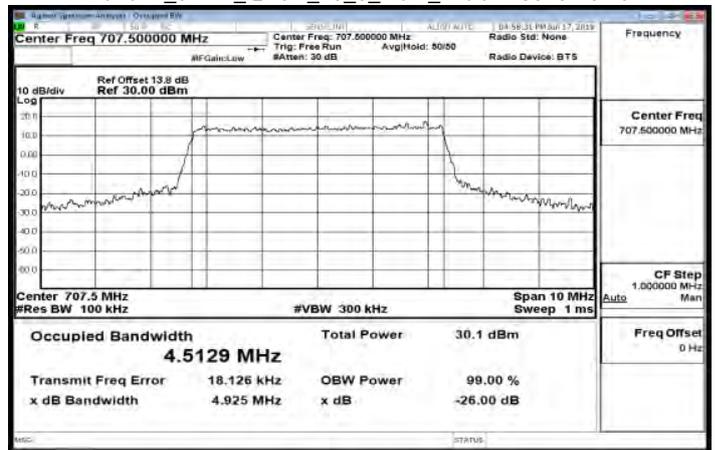
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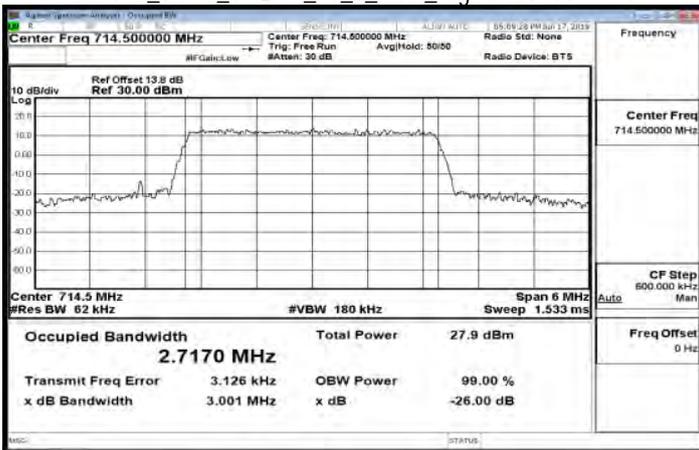
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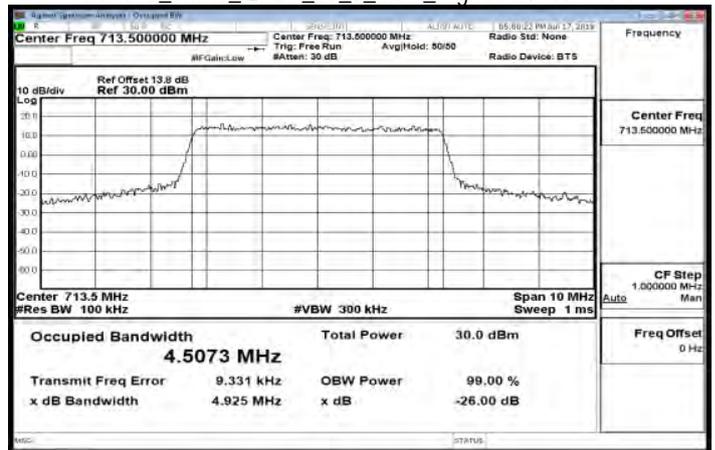
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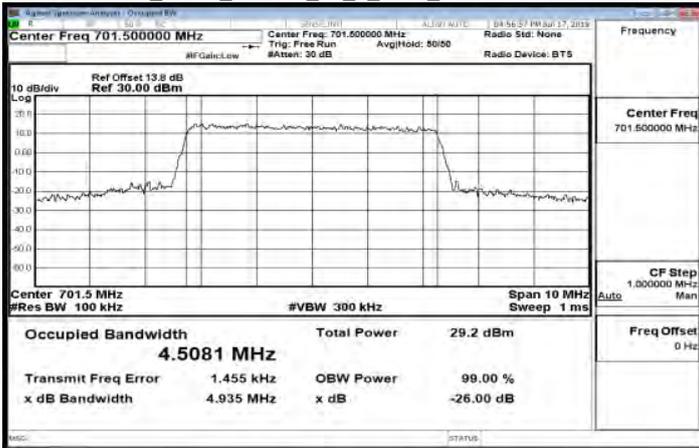
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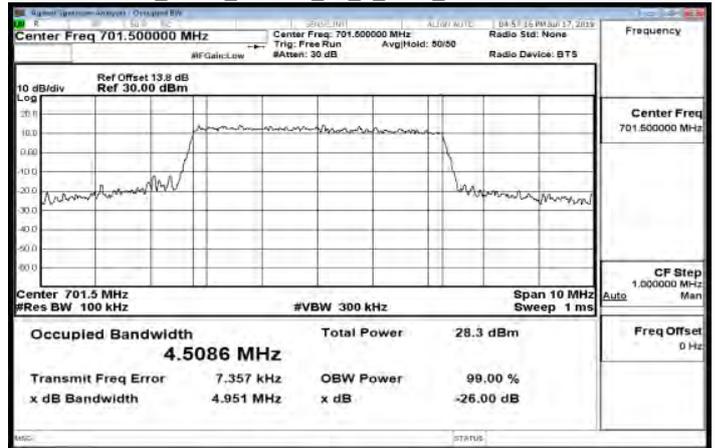
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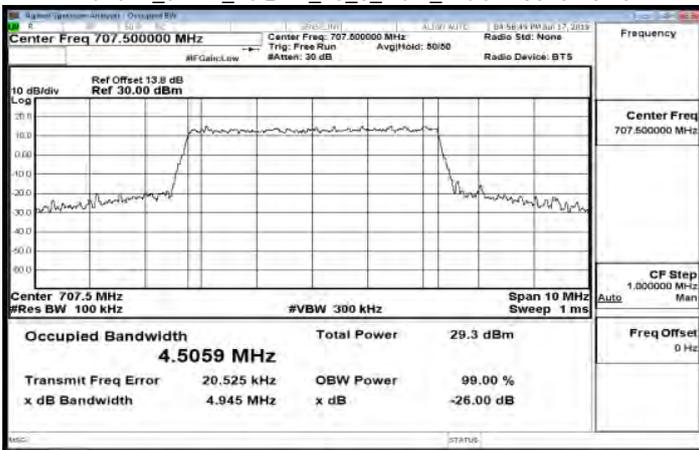
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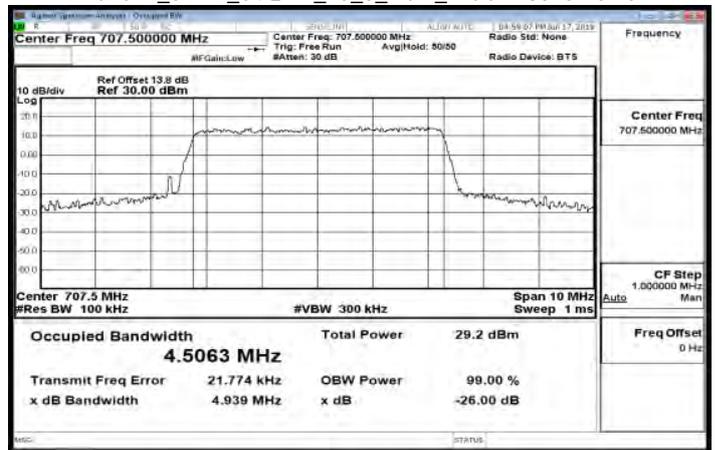
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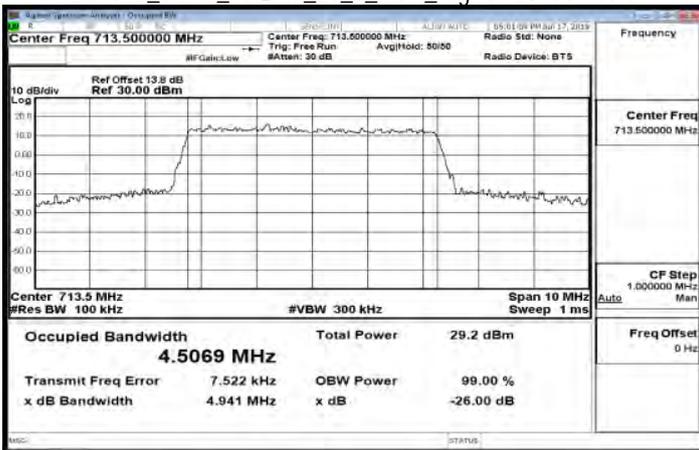
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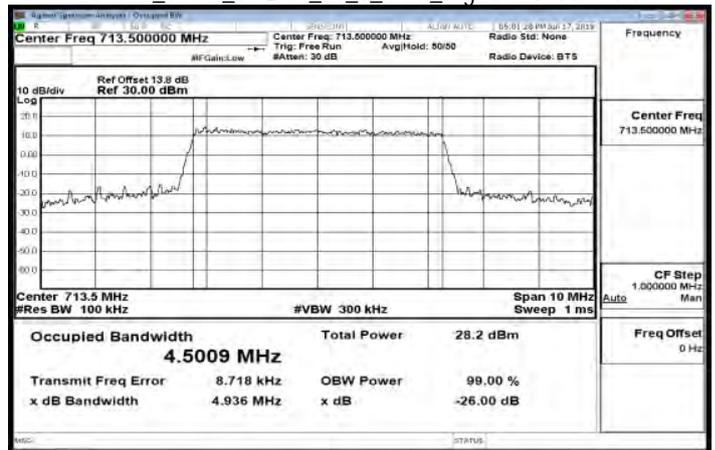
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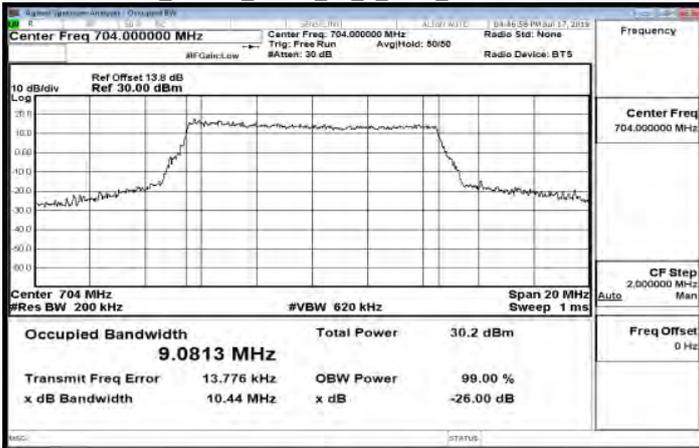


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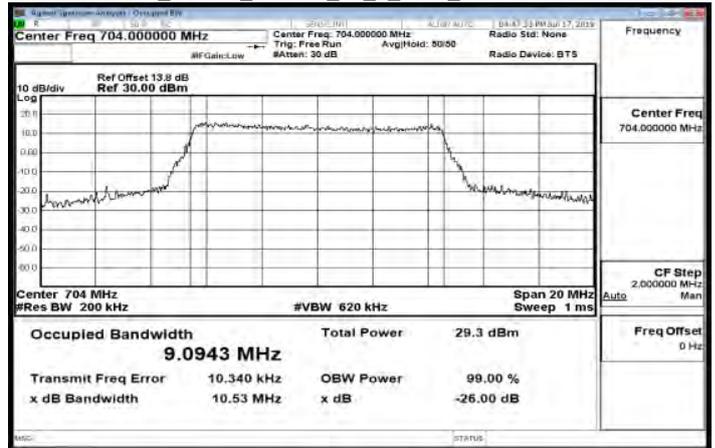
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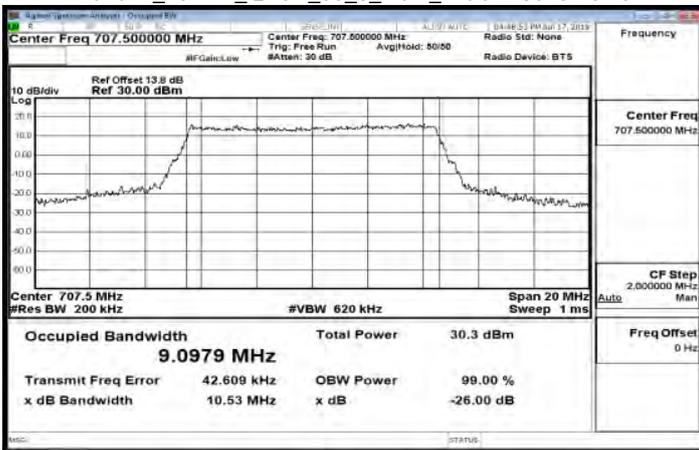
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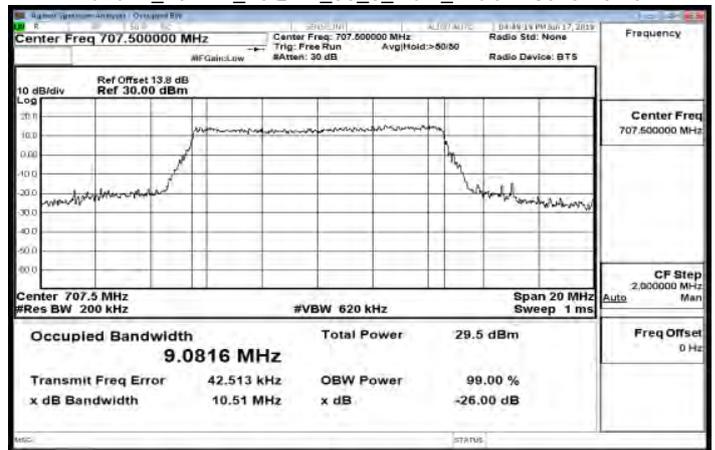
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Band12_10MHz_QPSK_50_0_Main_MidCH23095-707.5



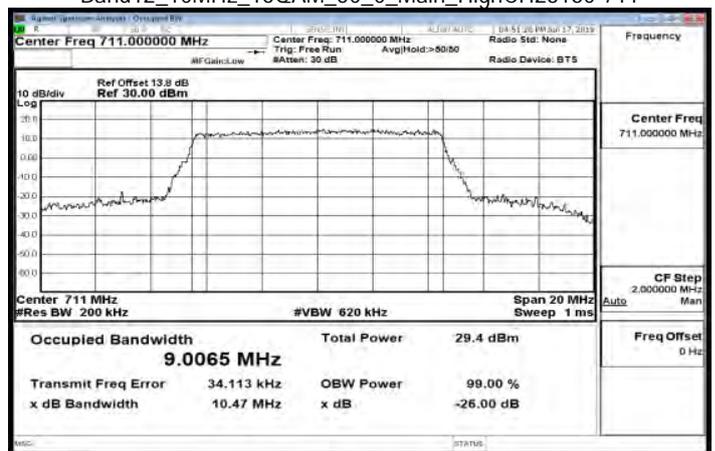
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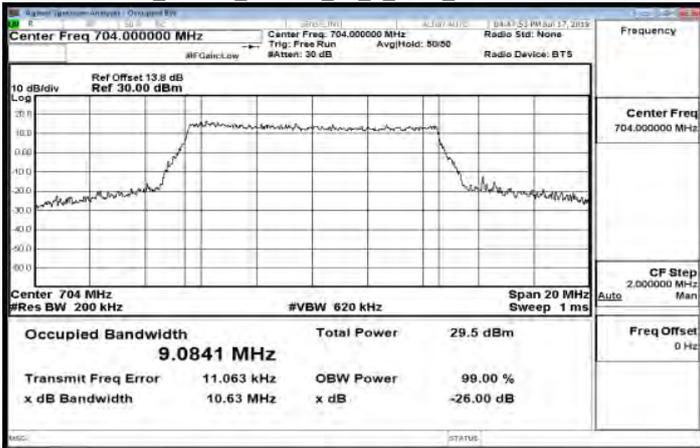


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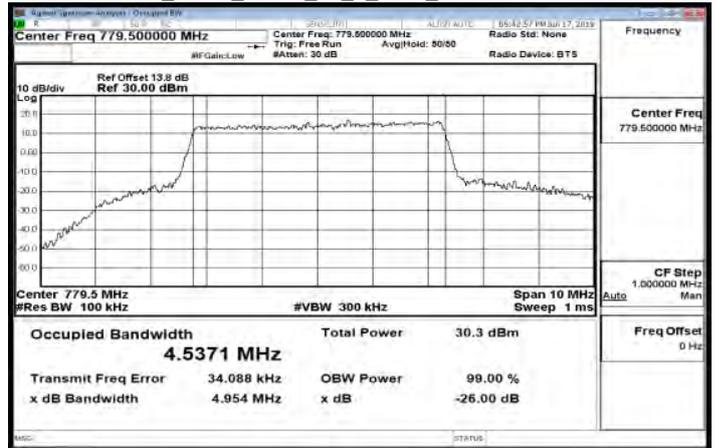
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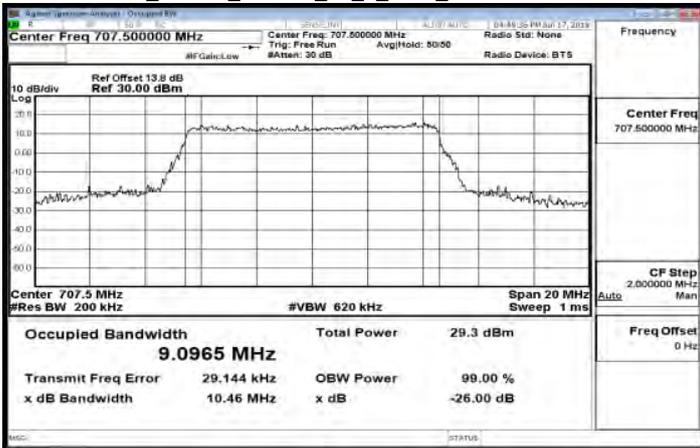
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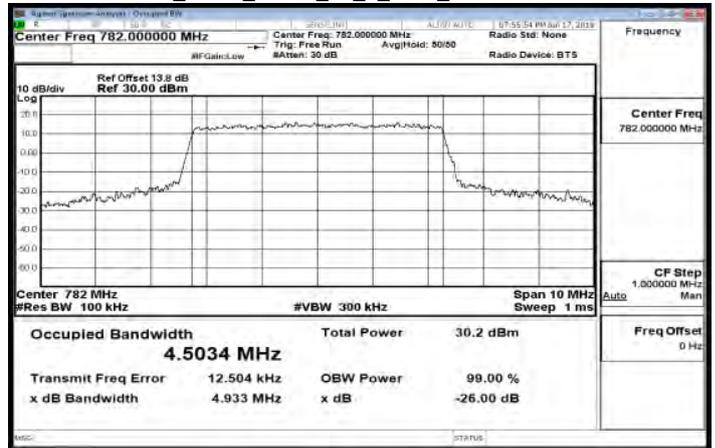
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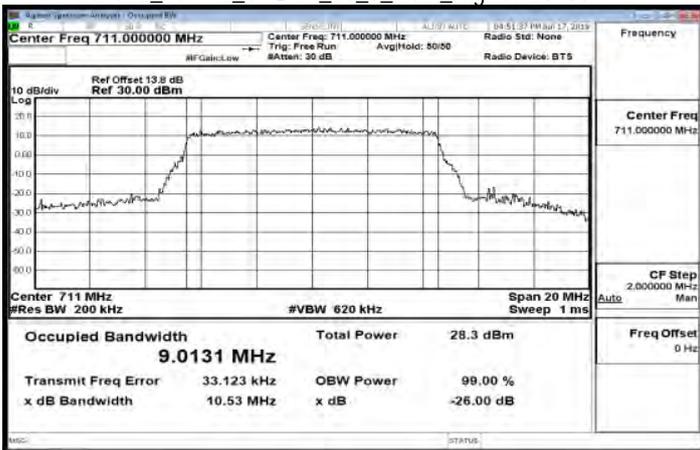
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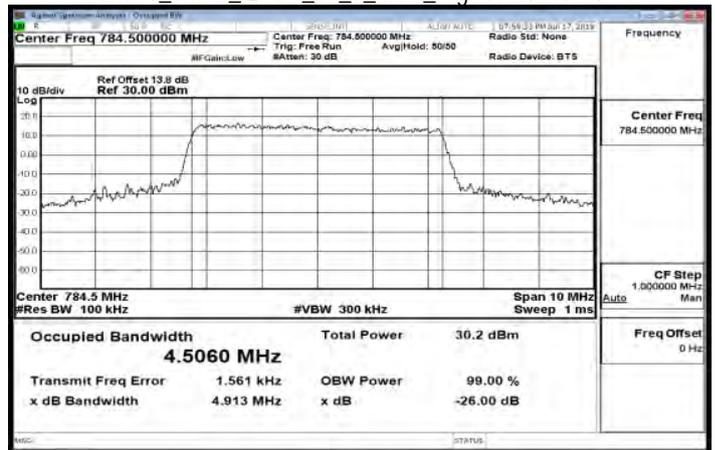
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Band12_10MHz_64QAM_50_0_Main_HighCH23130-711



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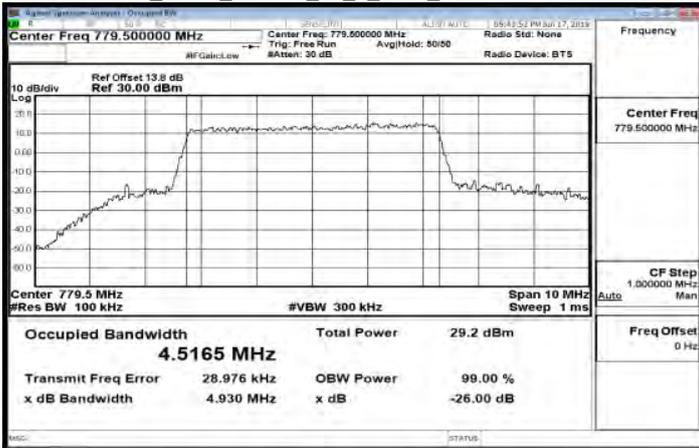


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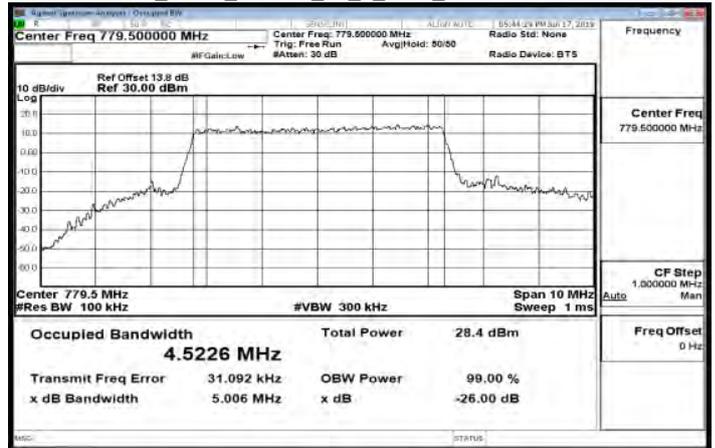
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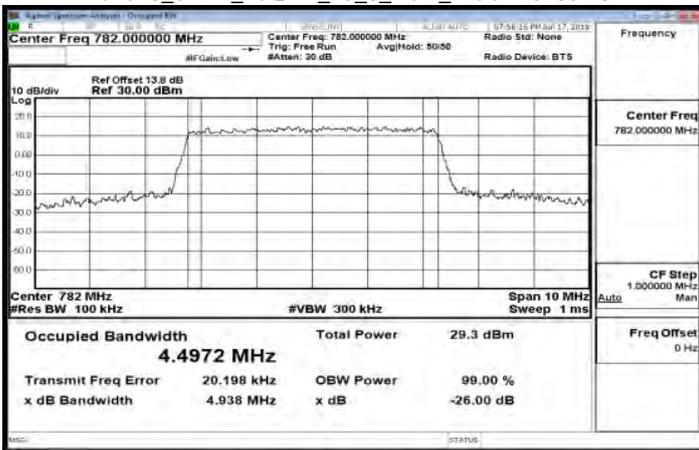
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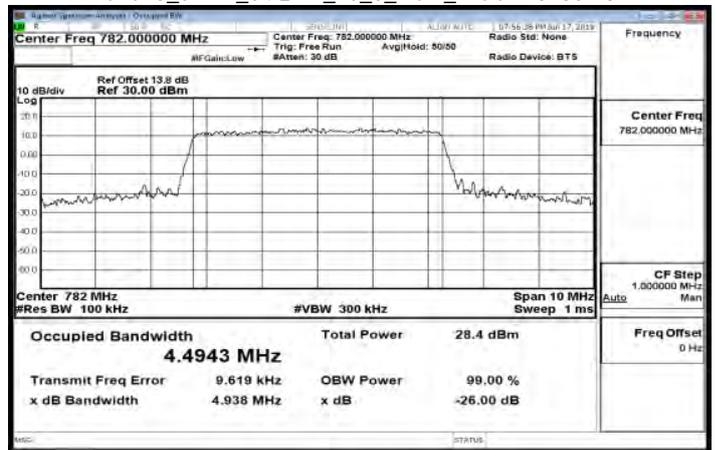
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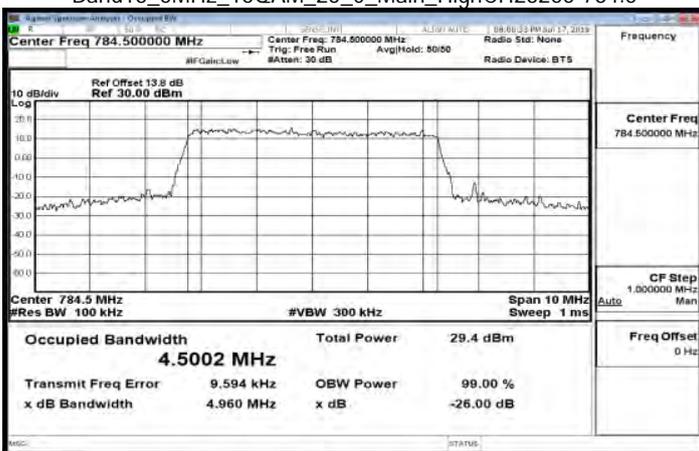
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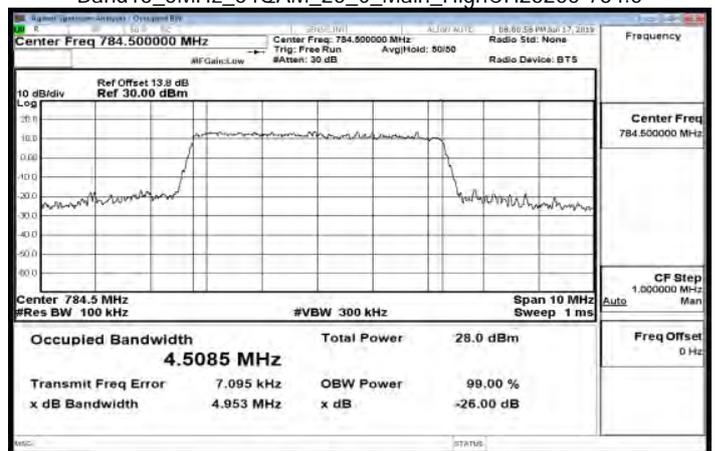
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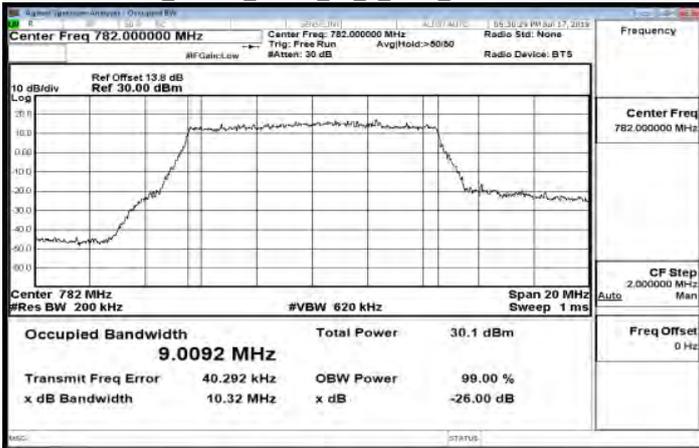
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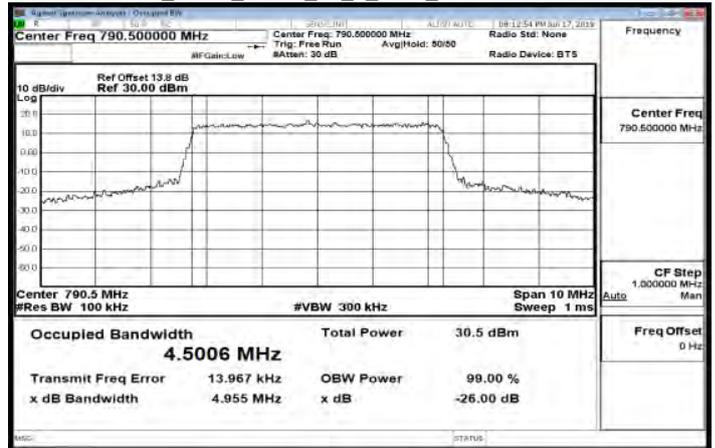
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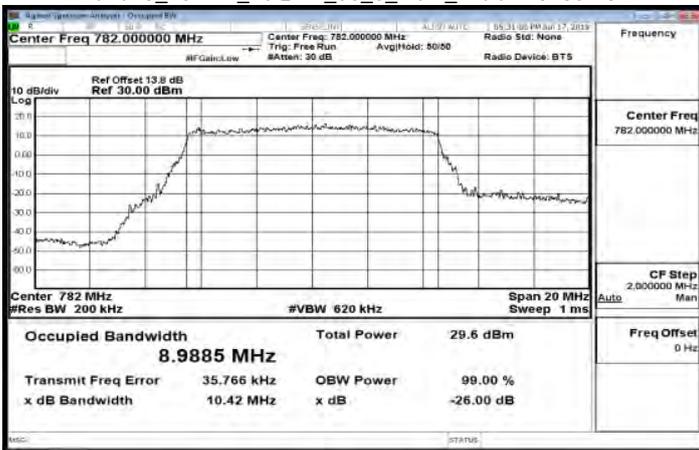
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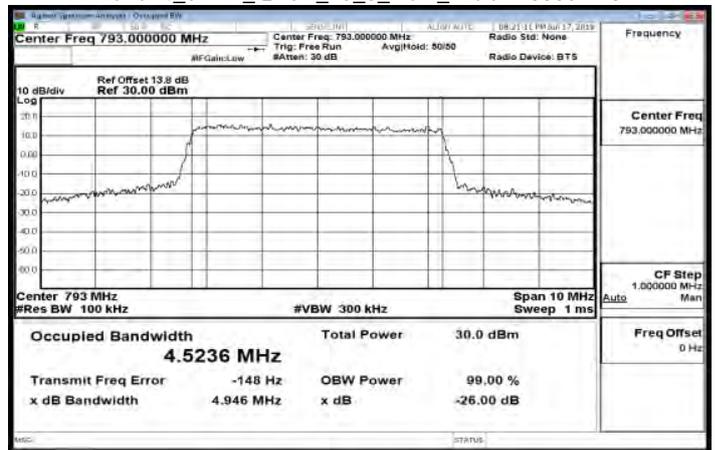
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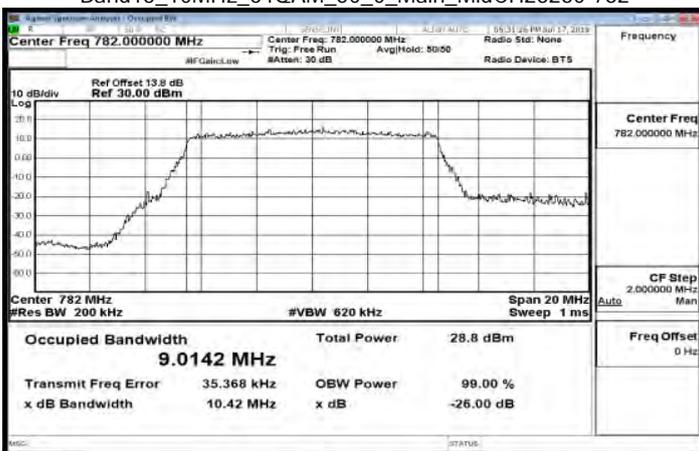
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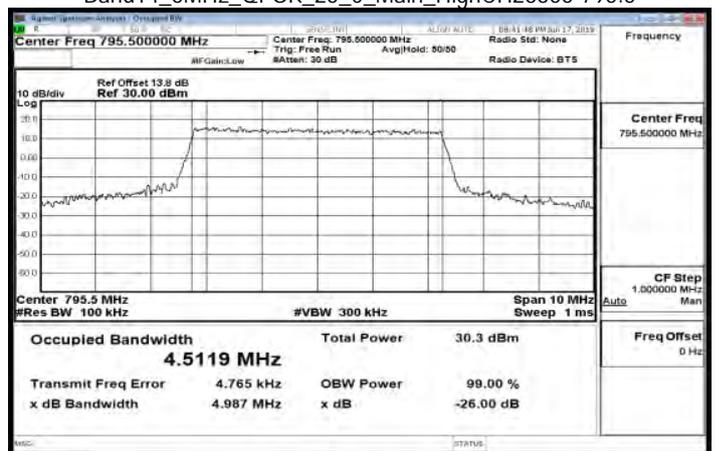
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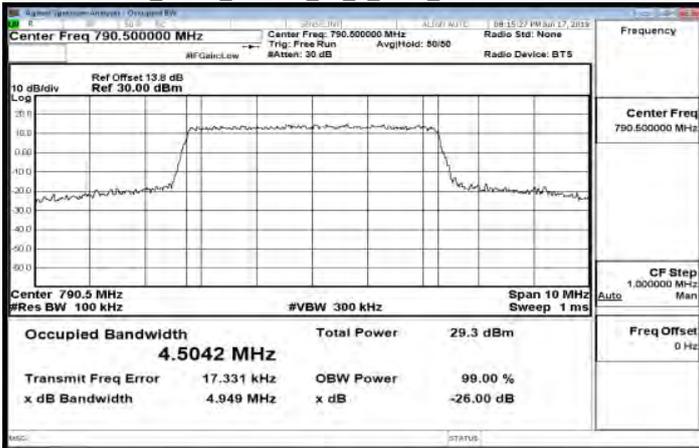
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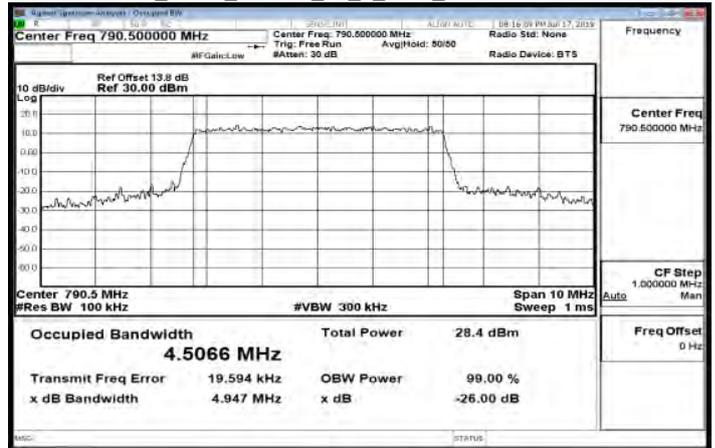
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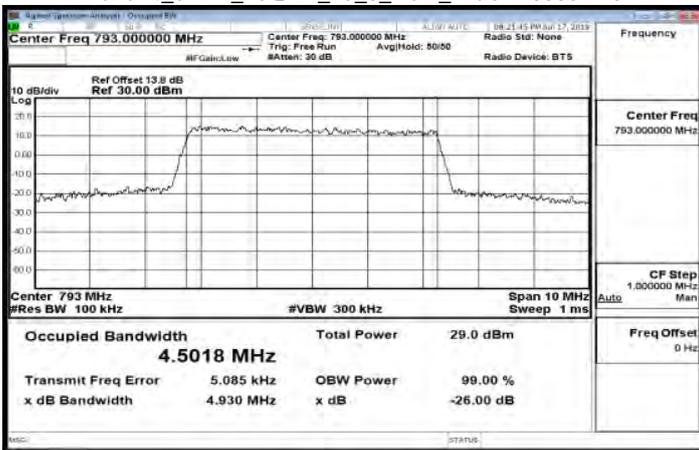
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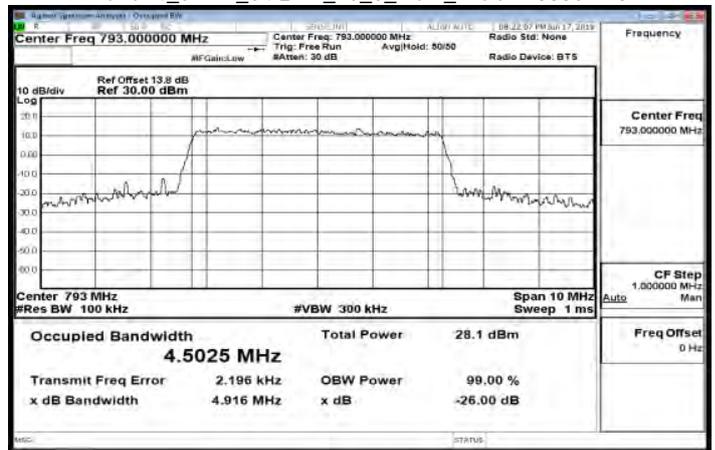
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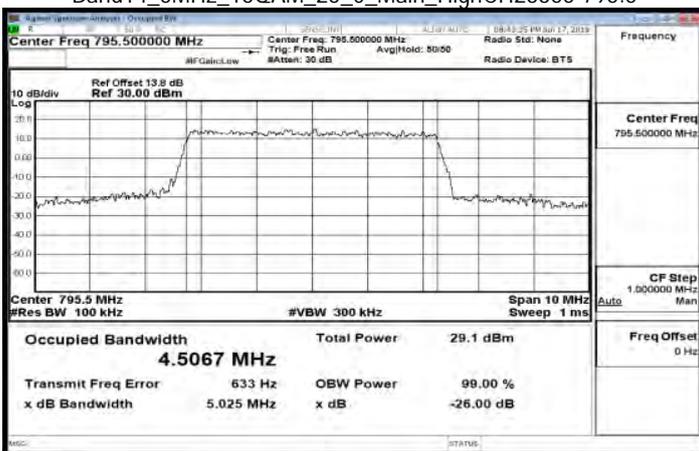
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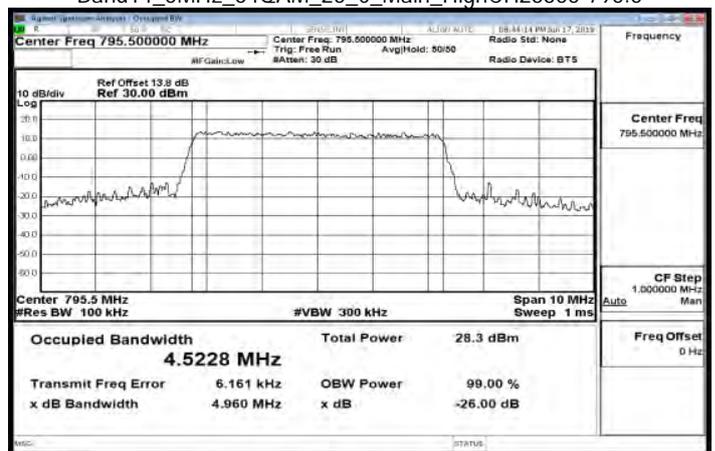
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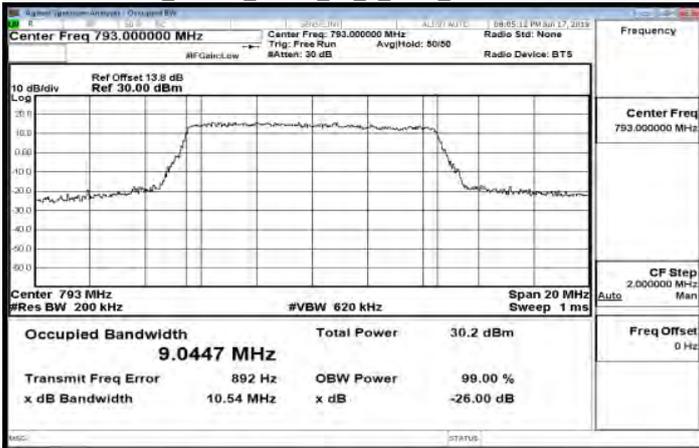


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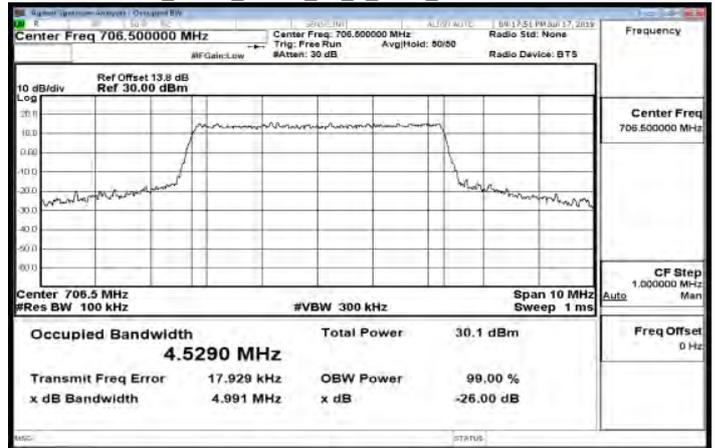
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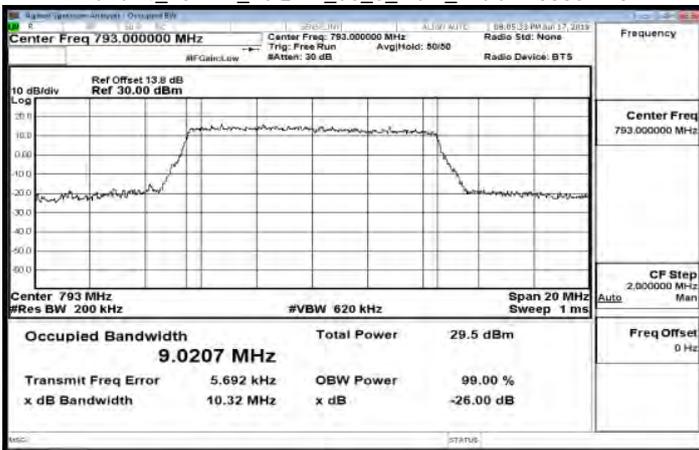
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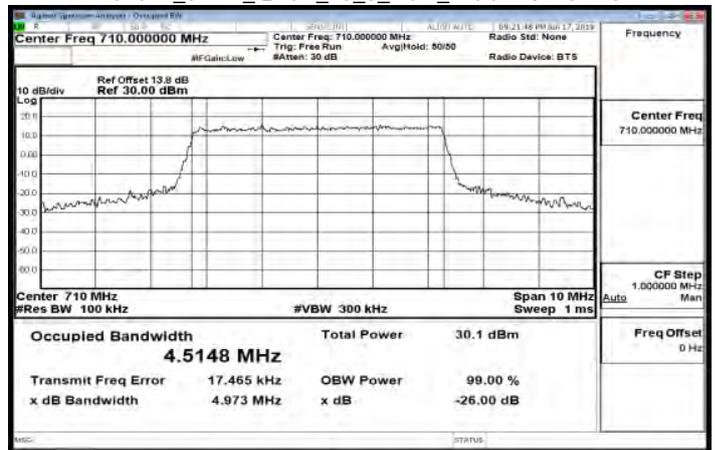
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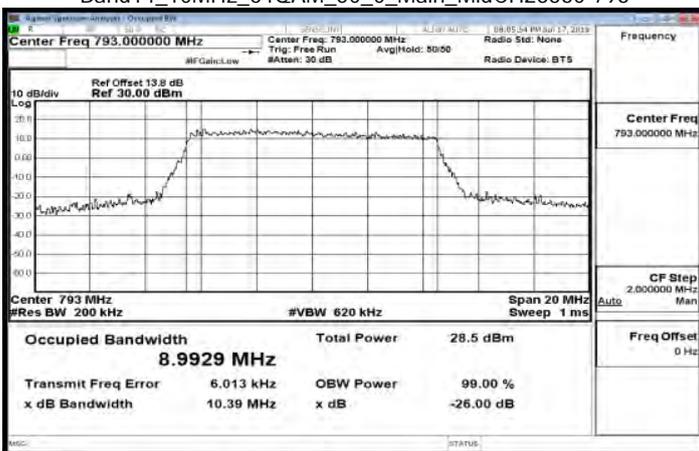
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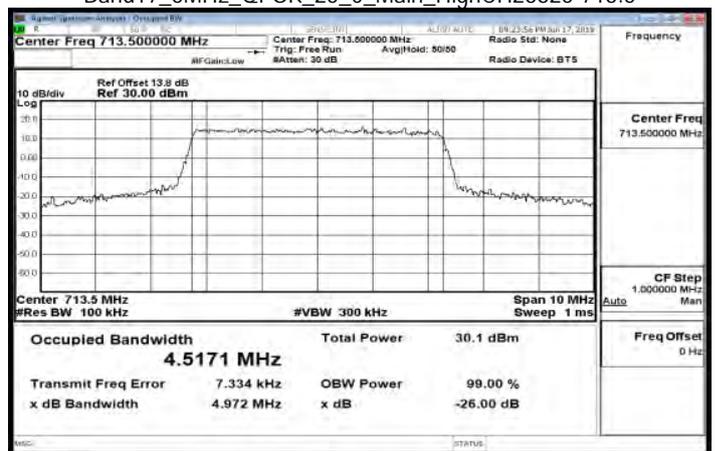
Band17_5MHz_QPSK_25_0_Main_MidCH23790-710



Band14_10MHz_64QAM_50_0_Main_MidCH23330-793



Band17_5MHz_QPSK_25_0_Main_HighCH23825-713.5



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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