

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

**Applicant:** HP Inc.  
1501 Page Mill Road Palo Alto, CA 94304  
**Product Name:** Notebook Computer  
**Brand Name:** HP  
**Model No.:** HSN-I22C  
**Model Difference:** N/A  
**FCC ID:** B94HNI22CPK  
**Report Number:** E2/2018/B0069  
**FCC Rule Part:** 2, 22H & 24E & 27B, C & L & 90 R,S  
**Issue Date:** Jan. 08, 2019  
**Date of Test:** Nov. 26, 2018 ~ Dec. 24, 2018  
**Date of EUT Received:** Nov. 26, 2018

**We hereby certify that:**

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

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

**Tested By:**

Aken Huang

**Aken Huang / Engineer**

**Approved By:**

Vito. Pei

**Jazz Huang / Sr. Engineer**



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## Revision History

Report Number	Revision	Description	Effectuated Page	Issue Date	Revised By
E2/2018/B0069	Rev.00	Initial creation of document	All	Jan. 08, 2019	Tiffany Kao

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# 1. GENERAL PRODUCT INFORMATION

## 1.1. Product Description

General:

Product Name:	Notebook Computer	
Brand Name:	HP	
Model No.:	HSN-I22C	
Model Difference:	N/A	
Hardware Version:	N/A	
Software Version:	N/A	
Power Supply:	7.7Vdc from Rechargeable Li-polymer Battery or 19.5Vdc from AC/DC Adapter	
	Battery:	1. Model No.: HSTNN-DB9C, Supplier: Dynapack 2. Model No.: HSTNN-IB8U, Supplier: Simplo
	Adapter:	1. Model No.: TPN-CA17, Supplier: Chicony
IMEI:	352279100011560	

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## 1.2. WCDMA / LTE: Cellular Phone Standards Frequency Range

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

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

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LTE Band	BW (MHz)	Operation Frequency (MHz)	LTE Band	BW (MHz)	Operation Frequency (MHz)
41	5	2502.5 - 2687.5	66	1.4	1710.7 - 1779.3
	10	2501.0 - 2685.0		3	1711.5 - 1778.5
	15	2503.5 - 2682.5		5	1712.5 - 1777.5
	20	2506.0 - 2680.0		10	1715.0 - 1775.0
				15	1717.5 - 1772.5
				20	1720.0 - 1770.0

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## Antenna Designation

Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Awan	PIFA	Main	6036B0232901 (ANP6Y-100277)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	-0.87
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.9
				WCDMA / HSPA Band V	826.4 ~ 846.6	-1.73
				LTE Band 2	1850 ~ 1910	-0.87
				LTE Band 4	1710 ~ 1755	-0.66
				LTE Band 5	824 ~ 849	-1.73
				LTE Band 7	2503 ~ 2560	-0.53
				LTE Band 12	699 ~ 716	-1.14
				LTE Band 13	777 ~ 787	-0.23
				LTE Band 14	788 ~ 798	-0.58
				LTE Band 17	704 ~ 716	-1.14
				LTE Band 25	1850 ~ 1915	-0.87
				LTE Band 26	824 ~ 849	-1.77
				LTE Band 26 Part 90S	814.7 ~ 823.3	-1.79
				LTE Band 30	2305 ~ 2315	1.92
				LTE Band 38	2570 ~ 2620	0.03
				LTE Band 41	2496 ~ 2690	0.03
				LTE Band 66	1710 ~ 1780	-0.66
	PIFA	Aux	6036B0232801 (ANP6Y-100278)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.76
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.76
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 14	788 ~ 798	-2.02
				LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	-0.43
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 Part 90S	814.7 ~ 823.3	-2.6
				LTE Band 30	2305 ~ 2315	1.23
				LTE Band 38	2570 ~ 2620	-0.33
				LTE Band 41	2496 ~ 2690	-0.33
				LTE Band 66	1710 ~ 1780	N/A

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Vendor	Type	Main / Aux	Antenna Part No.	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
HONG-BO	PIFA	Main	6036B0233801 (260-27270)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.79
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	-0.27
				WCDMA / HSPA Band V	826.4 ~ 846.6	-2.06
				LTE Band 2	1850 ~ 1910	0.85
				LTE Band 4	1710 ~ 1755	-0.27
				LTE Band 5	824 ~ 849	-2.06
				LTE Band 7	2503 ~ 2560	1.25
				LTE Band 12	699 ~ 716	-0.63
				LTE Band 13	777 ~ 787	0.01
				LTE Band 14	788 ~ 798	-0.5
				LTE Band 17	704 ~ 716	-0.97
				LTE Band 25	1850 ~ 1915	0.85
				LTE Band 26	824 ~ 849	-2.06
				LTE Band 26 Part 90S	814.7 ~ 823.3	-2.06
				LTE Band 30	2305 ~ 2315	3.37
				LTE Band 38	2570 ~ 2620	2.96
				LTE Band 41	2496 ~ 2690	2.96
				LTE Band 66	1710 ~ 1780	-0.27
	PIFA	Aux	6036B0233901 (260-27271)	WCDMA / HSPA Band II	1852.4 ~ 1907.6	0.97
				WCDMA / HSPA Band IV	1712.4 ~ 1752.6	N/A
				WCDMA / HSPA Band V	826.4 ~ 846.6	N/A
				LTE Band 2	1850 ~ 1910	0.97
				LTE Band 4	1710 ~ 1755	N/A
				LTE Band 5	824 ~ 849	N/A
				LTE Band 7	2503 ~ 2560	N/A
				LTE Band 12	699 ~ 716	N/A
				LTE Band 13	777 ~ 787	N/A
				LTE Band 14	788 ~ 798	-5.25
				LTE Band 17	704 ~ 716	N/A
				LTE Band 25	1850 ~ 1915	0.79
				LTE Band 26	824 ~ 849	N/A
				LTE Band 26 Part 90S	814.7 ~ 823.3	-5.57
				LTE Band 30	2305 ~ 2315	-1.28
				LTE Band 38	2570 ~ 2620	-4.32
				LTE Band 41	2496 ~ 2690	-0.95
				LTE Band 66	1710 ~ 1780	N/A

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

	ERP / EIRP (dBm)		(W)	Type of Emission
WCDMA Band II	25.26	EIRP	0.336	4M08F9W
HSDPA Band II	25.20	EIRP	0.331	4M08F9W
HSUPA Band II	24.72	EIRP	0.296	4M08F9W
WCDMA Band IV	23.98	EIRP	0.250	4M10F9W
HSDPA Band IV	23.94	EIRP	0.248	4M09F9W
HSUPA Band IV	23.37	EIRP	0.217	4M09F9W
WCDMA Band V	22.41	ERP	0.174	4M09F9W
HSDPA Band V	22.38	ERP	0.173	4M10F9W
HSUPA Band V	21.86	ERP	0.153	4M09F9W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
2	1.4	QPSK	24.51	EIRP	0.282	1M13G7D
	1.4	16QAM	23.90	EIRP	0.245	1M13D7W
	1.4	64QAM	22.81	EIRP	0.191	1M11D7W
	3	QPSK	24.18	EIRP	0.262	2M77G7D
	3	16QAM	23.67	EIRP	0.233	2M73D7W
	3	64QAM	22.58	EIRP	0.181	2M72D7W
	5	QPSK	24.27	EIRP	0.267	4M57G7D
	5	16QAM	23.78	EIRP	0.239	4M52D7W
	5	64QAM	22.75	EIRP	0.188	4M54D7W
	10	QPSK	24.36	EIRP	0.273	9M10G7D
	10	16QAM	23.87	EIRP	0.244	9M08D7W
	10	64QAM	22.84	EIRP	0.192	9M06D7W
	15	QPSK	24.42	EIRP	0.277	13M6G7D
	15	16QAM	23.97	EIRP	0.249	13M6D7W
	15	64QAM	22.93	EIRP	0.196	13M6D7W
	20	QPSK	24.66	EIRP	0.292	18M0G7D
	20	16QAM	23.95	EIRP	0.248	18M0D7W
	20	64QAM	22.92	EIRP	0.196	18M1D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
4	1.4	QPSK	23.43	EIRP	0.220	1M10G7D
	1.4	16QAM	22.63	EIRP	0.183	1M11D7W
	1.4	64QAM	21.62	EIRP	0.145	1M11D7W
	3	QPSK	23.17	EIRP	0.207	2M72G7D
	3	16QAM	22.34	EIRP	0.171	2M71D7W
	3	64QAM	21.26	EIRP	0.134	2M73D7W
	5	QPSK	23.34	EIRP	0.216	4M52G7D
	5	16QAM	22.51	EIRP	0.178	4M52D7W
	5	64QAM	21.48	EIRP	0.141	4M51D7W
	10	QPSK	23.36	EIRP	0.217	9M08G7D
	10	16QAM	22.55	EIRP	0.180	9M11D7W
	10	64QAM	21.54	EIRP	0.143	9M07D7W
	15	QPSK	23.45	EIRP	0.221	13M5G7D
	15	16QAM	22.71	EIRP	0.187	13M6D7W
	15	64QAM	21.62	EIRP	0.145	13M6D7W
	20	QPSK	23.72	EIRP	0.236	18M1G7D
	20	16QAM	22.73	EIRP	0.187	18M1D7W
	20	64QAM	21.70	EIRP	0.148	18M1D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
5	1.4	QPSK	21.74	ERP	0.149	1M11G7D
	1.4	16QAM	20.95	ERP	0.124	1M12D7W
	1.4	64QAM	19.93	ERP	0.098	1M11D7W
	3	QPSK	21.78	ERP	0.151	2M72G7D
	3	16QAM	21.12	ERP	0.129	2M73D7W
	3	64QAM	20.08	ERP	0.102	2M72D7W
	5	QPSK	21.88	ERP	0.154	4M53G7D
	5	16QAM	21.20	ERP	0.132	4M52D7W
	5	64QAM	20.12	ERP	0.103	4M53D7W
	10	QPSK	21.98	ERP	0.158	9M16G7D
	10	16QAM	21.25	ERP	0.133	9M16D7W
	10	64QAM	20.17	ERP	0.104	9M12D7W
7	5	QPSK	26.06	EIRP	0.404	4M55G7D
	5	16QAM	25.02	EIRP	0.318	4M52D7W
	5	64QAM	24.00	EIRP	0.251	4M53D7W
	10	QPSK	25.85	EIRP	0.385	9M13G7D
	10	16QAM	24.83	EIRP	0.304	9M11D7W
	10	64QAM	23.83	EIRP	0.242	9M08D7W
	15	QPSK	25.93	EIRP	0.392	13M6G7D
	15	16QAM	24.92	EIRP	0.310	13M6D7W
	15	64QAM	23.85	EIRP	0.243	13M6D7W
	20	QPSK	26.07	EIRP	0.405	18M1G7D
	20	16QAM	25.04	EIRP	0.319	18M1D7W
	20	64QAM	24.03	EIRP	0.253	18M1D7W
12	1.4	QPSK	22.50	ERP	0.178	1M11G7D
	1.4	16QAM	21.77	ERP	0.150	1M11D7W
	1.4	64QAM	20.76	ERP	0.119	1M11D7W
	3	QPSK	22.47	ERP	0.177	2M72G7D
	3	16QAM	21.71	ERP	0.148	2M72D7W
	3	64QAM	20.68	ERP	0.117	2M72D7W
	5	QPSK	22.56	ERP	0.180	4M53G7D
	5	16QAM	21.87	ERP	0.154	4M52D7W
	5	64QAM	20.86	ERP	0.122	4M54D7W
	10	QPSK	22.76	ERP	0.189	9M12G7D
	10	16QAM	21.96	ERP	0.157	9M11D7W
	10	64QAM	20.96	ERP	0.125	9M14D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
13	5	QPSK	23.68	ERP	0.233	4M55G7D
	5	16QAM	23.00	ERP	0.200	4M54D7W
	5	64QAM	22.00	ERP	0.158	4M53D7W
	10	QPSK	23.75	ERP	0.237	9M01G7D
	10	16QAM	22.96	ERP	0.198	9M02D7W
	10	64QAM	21.87	ERP	0.154	9M03D7W
14	5	QPSK	23.28	ERP	0.213	4M52G7D
	5	16QAM	22.50	ERP	0.178	4M56D7W
	5	64QAM	21.47	ERP	0.140	4M95D7W
	10	QPSK	23.32	ERP	0.215	8M99G7D
	10	16QAM	22.44	ERP	0.175	9M00D7W
	10	64QAM	21.43	ERP	0.139	9M33D7W
17	5	QPSK	22.71	ERP	0.187	4M51G7D
	5	16QAM	21.97	ERP	0.157	4M52D7W
	5	64QAM	20.85	ERP	0.122	4M53D7W
	10	QPSK	22.75	ERP	0.188	9M04G7D
	10	16QAM	21.95	ERP	0.157	9M03D7W
	10	64QAM	20.88	ERP	0.122	9M03D7W
25	1.4	QPSK	24.44	EIRP	0.278	1M11G7D
	1.4	16QAM	23.72	EIRP	0.236	1M12D7W
	1.4	64QAM	22.52	EIRP	0.179	1M11D7W
	3	QPSK	24.43	EIRP	0.277	2M74G7D
	3	16QAM	23.67	EIRP	0.233	2M73D7W
	3	64QAM	22.57	EIRP	0.181	2M73D7W
	5	QPSK	24.48	EIRP	0.281	4M52G7D
	5	16QAM	23.82	EIRP	0.241	4M51D7W
	5	64QAM	22.52	EIRP	0.179	4M53D7W
	10	QPSK	24.52	EIRP	0.283	9M08G7D
	10	16QAM	23.73	EIRP	0.236	9M09D7W
	10	64QAM	22.56	EIRP	0.180	9M13D7W
	15	QPSK	24.30	EIRP	0.269	13M6G7D
	15	16QAM	23.61	EIRP	0.230	13M6D7W
	15	64QAM	22.55	EIRP	0.180	13M6D7W
	20	QPSK	24.26	EIRP	0.267	18M0G7D
	20	16QAM	23.60	EIRP	0.229	18M0D7W
	20	64QAM	22.60	EIRP	0.182	18M0D7W

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LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
26	1.4	QPSK	21.78	ERP	0.151	1M12G7D
	1.4	16QAM	21.04	ERP	0.127	1M12D7W
	1.4	64QAM	20.06	ERP	0.101	1M12D7W
	3	QPSK	21.65	ERP	0.146	2M72G7D
	3	16QAM	20.86	ERP	0.122	2M73D7W
	3	64QAM	20.05	ERP	0.101	2M73D7W
	5	QPSK	21.76	ERP	0.150	4M52G7D
	5	16QAM	21.03	ERP	0.127	4M52D7W
	5	64QAM	20.00	ERP	0.100	4M53D7W
	10	QPSK	21.83	ERP	0.152	9M13G7D
	10	16QAM	21.09	ERP	0.129	9M13D7W
	10	64QAM	20.00	ERP	0.100	9M15D7W
	15	QPSK	21.87	ERP	0.154	13M6G7D
	15	16QAM	21.11	ERP	0.129	13M6D7W
	15	64QAM	20.06	ERP	0.101	13M6D7W
26 90S	1.4	QPSK	21.86	ERP	0.153	1M11G7D
	1.4	16QAM	21.24	ERP	0.133	1M11D7W
	1.4	64QAM	20.20	ERP	0.105	1M11D7W
	3	QPSK	21.60	ERP	0.145	2M72G7D
	3	16QAM	21.01	ERP	0.126	2M72D7W
	3	64QAM	20.02	ERP	0.100	2M72D7W
	5	QPSK	21.93	ERP	0.156	4M51G7D
	5	16QAM	21.08	ERP	0.128	4M52D7W
	5	64QAM	20.00	ERP	0.100	4M52D7W
	10	QPSK	21.80	ERP	0.151	9M02G7D
	10	16QAM	20.97	ERP	0.125	9M00D7W
	10	64QAM	19.88	ERP	0.097	9M01D7W
30	5	QPSK	23.30	EIRP	0.214	4M53G7D
	5	16QAM	22.36	EIRP	0.172	4M52D7W
	5	64QAM	21.28	EIRP	0.134	4M53D7W
	10	QPSK	23.35	EIRP	0.216	9M05G7D
	10	16QAM	22.35	EIRP	0.172	9M05D7W
	10	64QAM	21.35	EIRP	0.136	9M09D7W

LTE Band	BW (MHz)	Modulation	ERP / EIRP (dBm)		(W)	Type of Emission
38	5	QPSK	26.70	EIRP	0.468	4M53G7D
	5	16QAM	25.79	EIRP	0.379	4M52D7W
	5	64QAM	24.24	EIRP	0.265	4M54D7W
	10	QPSK	26.88	EIRP	0.488	9M05G7D
	10	16QAM	25.78	EIRP	0.378	9M06D7W
	10	64QAM	24.17	EIRP	0.261	9M05D7W
	15	QPSK	26.74	EIRP	0.472	13M5G7D
	15	16QAM	25.79	EIRP	0.379	13M6D7W
	15	64QAM	24.24	EIRP	0.265	13M5D7W
	20	QPSK	26.89	EIRP	0.489	18M0G7D
	20	16QAM	25.94	EIRP	0.393	18M0D7W
	20	64QAM	24.34	EIRP	0.272	18M0D7W
41	5	QPSK	27.89	EIRP	0.615	4M53G7D
	5	16QAM	25.97	EIRP	0.395	4M51D7W
	5	64QAM	24.95	EIRP	0.313	4M54D7W
	10	QPSK	27.83	EIRP	0.607	9M06G7D
	10	16QAM	25.97	EIRP	0.395	9M06D7W
	10	64QAM	25.02	EIRP	0.318	9M07D7W
	15	QPSK	27.85	EIRP	0.610	13M6G7D
	15	16QAM	25.96	EIRP	0.394	13M5D7W
	15	64QAM	24.97	EIRP	0.314	13M6D7W
	20	QPSK	27.92	EIRP	0.619	18M0G7D
	20	16QAM	25.98	EIRP	0.396	18M1D7W
	20	64QAM	25.03	EIRP	0.318	18M0D7W

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66	1.4	QPSK	23.58	EIRP	0.228	1M11G7D
	1.4	16QAM	22.71	EIRP	0.187	1M11D7W
	1.4	64QAM	21.62	EIRP	0.145	1M11D7W
	3	QPSK	23.31	EIRP	0.214	2M72G7D
	3	16QAM	22.36	EIRP	0.172	2M72D7W
	3	64QAM	21.27	EIRP	0.134	2M72D7W
	5	QPSK	23.37	EIRP	0.217	4M53G7D
	5	16QAM	22.38	EIRP	0.173	4M53D7W
	5	64QAM	21.22	EIRP	0.132	4M53D7W
	10	QPSK	23.44	EIRP	0.221	9M11G7D
	10	16QAM	22.50	EIRP	0.178	9M09D7W
	10	64QAM	21.47	EIRP	0.140	9M09D7W
	15	QPSK	23.53	EIRP	0.225	13M6G7D
	15	16QAM	22.59	EIRP	0.182	13M6D7W
	15	64QAM	21.47	EIRP	0.140	13M6D7W
	20	QPSK	23.63	EIRP	0.231	18M0G7D
	20	16QAM	22.73	EIRP	0.187	18M1D7W
	20	64QAM	21.66	EIRP	0.147	18M1D7W

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#### 1.4. Test Methodology of Applied Standards

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

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03

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

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

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

#### 1.5. Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 code 0513)

FCC Registration Numbers are: 735305 / TW0002

#### 1.6. Special Accessories

No special accessories were used during testing.

#### 1.7. Equipment Modifications

There were no modifications incorporated into the EUT.

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## 2. SYSTEM TEST CONFIGURATION

### 2.1. EUT Configuration

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

### 2.2. EUT Exercise

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

### 2.3. Test Procedure

#### 2.3.1 Conducted Measurement at Antenna Port

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

#### 2.3.2 Radiated Emissions (ERP/EIRP)

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

### 2.4. Measurement Results Explanation Example

#### For all conducted test items:

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

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**Note:**

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

Following shows an offset computation in physical test.

	RF cable loss (dB)	Attenuation factor(dB)	offset(dB)
Low Band (Below 1GHz)	3.6	10	13.6
High Band (Above 1 GHz)	3.9	10	13.9

## 2.5. Final Amplifier Voltage and Current Information:

Test Mode	DC voltage (V)	DC current (mA)
WCDMA B2	11.55	708
WCDMA B4		695
WCDMA B5		664
LTE Band 2		838
LTE Band 4		873
LTE Band 5		669
LTE Band 7		661
LTE Band 12		673
LTE Band 13		655
LTE Band 14		669
LTE Band 17		669
LTE Band 25		666
LTE Band 26		700
LTE Band 26 (Part 90S)		674
LTE Band 30		843
LTE Band 38		836
LTE Band 41		818
LTE Band 66		833

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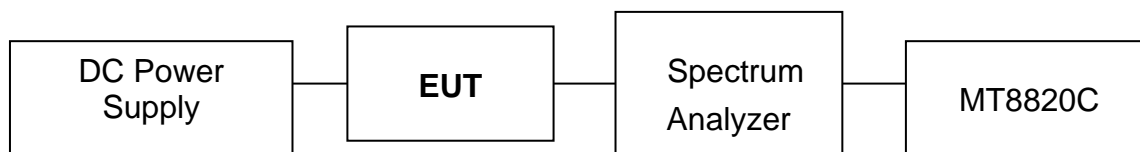
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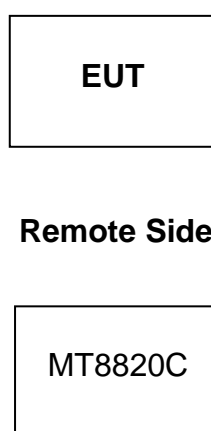


## 2.6. Configuration of Tested System

**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.	Universal Radio Communication Tester	Anritsu	MT8820C	6200307563	shielded	Un-shielded

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### 3. SUMMARY OF TEST RESULTS

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

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## 4. DESCRIPTION OF TEST MODES

### 4.1. The Worst Test Modes and Channel Details

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

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

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WCDMA/HSPA MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	MODE
ERP	4132 to 4233	4132, 4183, 4233	WCDMA/HSPA Band V
EIRP	9262 to 9538 1312 to 1513	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
PEAK TO AVERAGE RATIO	20470 to 20643	20470, 20525, 20643	1.4MHz	64QAM	Full RB
	20415 to 20635	20415, 20525, 20635	3MHz	64QAM	Full RB
	20425 to 20625	20425, 20525, 20625	5MHz	64QAM	Full RB
	20450 to 20600	20450, 20525, 20600	10MHz	64QAM	Full RB
BAND EDGE	20470 to 20643	20470, 20643	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	20415 to 20635	20415, 20635	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	20425 to 20625	20425, 20625	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	20450 to 20600	20450, 20600	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED EMISSION	20470 to 20643	20470, 20525, 20643	1.4MHz	QPSK,	1 RB, 0 RB Offest
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK,	1 RB, 0 RB Offest
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK,	1 RB, 0 RB Offest
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1 RB, 0 RB Offest

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## LTE Band 7 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	20800 to 21400	21100	10MHz	QPSK	Full RB
OCCUPIED BANDWIDTH	20775 to 21425	20775, 21100, 21425	5MHz	QPSK, 16QAM, 64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK, 16QAM, 64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	20775 to 21425	20775, 21100, 21425	5MHz	64QAM	Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	64QAM	Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	64QAM	Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	64QAM	Full RB
BAND EDGE	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB/ 0,24 RB Offest Full RB
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB/ 0,49 RB Offest Full RB
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB/ 0,74 RB Offest Full RB
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB/ 0,99 RB Offest Full RB
CONDUCTED EMISSION	20775 to 21425	20775, 21100, 21425	5MHz	QPSK	1 RB, 0 RB Offest
	20800 to 21400	20800, 21100, 21400	10MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21375	20850, 21100, 21375	15MHz	QPSK	1 RB, 0 RB Offest
	20850 to 21350	20850, 21100, 21350	20MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	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 BAND-WIDTH	MODULATION	MODE
ERP	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
FREQUENCY STABILITY	23060 to 23130	23095	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK, 16QAM, 64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK, 16QAM, 64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	23017 to 23173	23017, 23095, 23173	1.4MHz	64QAM	Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	64QAM	Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	64QAM	Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	64QAM	Full RB
BAND EDGE	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCU-DETED EMIS-ION	23017 to 23173	23017, 23095, 23173	1.4MHz	QPSK,	1 RB, 0 RB Offest
	23025 to 23165	23025, 23095, 23165	3MHz	QPSK,	1 RB, 0 RB Offest
	23035 to 23155	23035, 23095, 23155	5MHz	QPSK,	1 RB, 0 RB Offest
	23060 to 23130	23060, 23095, 23130	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	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
CONDCUDED 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,	1 RB/ 0,24 RB Offest
	23330	23330	10MHz	QPSK, 16QAM,	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,	Full RB
	23330	23330	10MHz	QPSK, 16QAM,	Full RB
PEAK TO AVERAGE RATIO	23305 to 23355	23305,23330,23355	5MHz	16QAM	Full RB
	23330	23330	10MHz	16QAM	Full RB
BAND EDGE	23305 to 23355	23305, 23355	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	23330	23330	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUDED 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/ 49 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
CONDCUDED EMISSION	23755 to 23825	23755, 23790, 23825	5MHz	QPSK,	1 RB, 0 RB Offest
	23780 to 23800	23780, 23790, 23800	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	23780 to 23800	23780, 23800	10MHz	QPSK,	1 RB/ 0 RB Offest

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# LTE Band 25 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK, 16QAM, 64QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	26047 to 26683	26047, 26365, 26683	1.4MHz	16QAM	Full RB
	26055 to 26675	26055, 26365, 26675	3MHz	16QAM	Full RB
	26065 to 26665	26065, 26365, 26665	5MHz	16QAM	Full RB
	26090 to 26640	26090, 26365, 26640	10MHz	16QAM	Full RB
	26115 to 26615	26115, 26365, 26615	15MHz	16QAM	Full RB
	26140 to 26590	26140, 26365, 26590	20MHz	16QAM	Full RB
BAND EDGE	26047 to 26683	26047, 26683	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26055 to 26675	26055, 26675	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26065 to 26665	26065, 26665	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26090 to 26640	26090, 26640	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26115 to 26615	26115, 26615	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	26140 to 26590	26140, 26590	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB
CONDCUETED EMISSION	26047 to 26683	26047, 26365, 26683	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26055 to 26675	26055, 26365, 26675	3MHz	QPSK,	1 RB, 0 RB Offest
	26065 to 26665	26065, 26365, 26665	5MHz	QPSK,	1 RB, 0 RB Offest
	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 0 RB Offest
	26115 to 26615	26115, 26365, 26615	15MHz	QPSK,	1 RB, 0 RB Offest
	26140 to 26590	26140, 26365, 26590	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26090 to 26640	26090, 26365, 26640	10MHz	QPSK,	1 RB, 49 RB Offest

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## LTE Band 26 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM, 64QAM	1 RB/ 0,5 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
FREQUENCY STABILITY	26865 to 26965	26915	15MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK, 16QAM, 64QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	26797 to 27033	26797, 26915, 27033	1.4MHz	16QAM	Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	16QAM	Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	16QAM	Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	16QAM	Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	16QAM	Full RB
BAND EDGE	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB/ 0,74 RB Offest
CONDCUDED EMISSION	26797 to 27033	26797, 26915, 27033	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26805 to 27025	26805, 26915, 27025	3MHz	QPSK,	1 RB, 0 RB Offest
	26815 to 27015	26815, 26915, 27015	5MHz	QPSK,	1 RB, 0 RB Offest
	26840 to 26990	26840, 26915, 26990	10MHz	QPSK,	1 RB, 0 RB Offest
	26865 to 26965	26865, 26915, 26965	15MHz	QPSK	1 RB, 0 RB Offest
RADIATED EMISSION	26865 to 26965	26865, 26915, 26965	15MHz	QPSK,	1 RB, 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 STA-BILITY	26697 to 26783	26740	1.4MHz	QPSK,	Full RB
OCCUPIED BAND-WIDTH	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK, 16QAM, 64QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK, 16QAM, 64QAM	Full RB
	26740	26740	10MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVER-AGE RATIO	26697 to 26783	26697, 26740, 26783	1.4MHz	16QAM	Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	16QAM	Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	16QAM	Full RB
	26740	26740	10MHz	16QAM	Full RB
EMISSION MASK	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	26740	26740	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
CONDCUETED EMISSION	26697 to 26783	26697, 26740, 26783	1.4MHz	QPSK,	1 RB, 0 RB Offest
	26705 to 26775	26705, 26740, 26775	3MHz	QPSK,	1 RB, 0 RB Offest
	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 0 RB Offest
	26740	26740	10MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMIS-SION	26715 to 26765	26715, 26740, 26765	5MHz	QPSK,	1 RB, 24 RB Offest

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# LTE Band 30 MODE

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

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## LTE Band 38 MODE

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

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# LTE Band 41 MODE

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

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# LTE Band 66 MODE

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
EIRP	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,5 RB Offest
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,14 RB Offest
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,24 RB Offest
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,49 RB Offest
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,74 RB Offest
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	1 RB/ 0,99 RB Offest
FREQUENCY STABILITY	18650 to 19150	18900	10MHz	QPSK,	Full RB
OCCUPIED BANDWIDTH	131979 to 132665	131979, 132322, 132665	1.4MHz	QPSK, 16QAM, 64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	QPSK, 16QAM, 64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	QPSK, 16QAM, 64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	QPSK, 16QAM, 64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	QPSK, 16QAM, 64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	QPSK, 16QAM, 64QAM	Full RB
PEAK TO AVERAGE RATIO	131979 to 132665	131979, 132322, 132665	1.4MHz	64QAM	Full RB
	131987 to 132657	131987, 132322, 132657	3MHz	64QAM	Full RB
	131997 to 132647	131997, 132322, 132647	5MHz	64QAM	Full RB
	132022 to 132622	132022, 132322, 132622	10MHz	64QAM	Full RB
	132047 to 132597	132047, 132322, 132597	15MHz	64QAM	Full RB
	132072 to 132572	132072, 132322, 132572	20MHz	64QAM	Full RB
BAND EDGE	18607 to 19193	18607, 19193	1.4MHz	QPSK,	1 RB/ 0,5 RB Offes Full RB
	18615 to 19185	18615, 19185	3MHz	QPSK,	1 RB/ 0,14 RB Offest Full RB
	18625 to 19175	18625, 19175	5MHz	QPSK,	1 RB/ 0,24 RB Offest Full RB
	18650 to 19150	18650, 19150	10MHz	QPSK,	1 RB/ 0,49 RB Offest Full RB
	18675 to 19125	18675, 19125	15MHz	QPSK,	1 RB/ 0,74 RB Offest Full RB
	18700 to 19100	18700, 19100	20MHz	QPSK,	1 RB/ 0,99 RB Offest Full RB

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CONDCUDED EMISSION	18607 to 19193	18607, 18900, 19193	1.4MHz	QPSK,	1 RB, 0 RB Offest
	18615 to 19185	18615, 18900, 19185	3MHz	QPSK,	1 RB, 0 RB Offest
	18625 to 19175	18625, 18900, 19175	5MHz	QPSK,	1 RB, 0 RB Offest
	18650 to 19150	18650, 18900, 19150	10MHz	QPSK,	1 RB, 0 RB Offest
	18675 to 19125	18675, 18900, 19125	15MHz	QPSK,	1 RB, 0 RB Offest
	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest
RADIATED EMISSION	18700 to 19100	18700, 18900, 19100	20MHz	QPSK,	1 RB, 0 RB Offest

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## 5. MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1.10 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 4.74dB Horizontal Polarization = +/- 4.62dB
99% Occupied Bandwidth	+/- 5.19 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 0.70 dB
Peak to Average Ratio	+/- 0.70 dB
Frequency Stability vs. Temperature	+/- 5.19 Hz
Frequency Stability vs. Voltage	+/- 5.19 Hz
Temperature	+/- 0.65 °C
Humidity	+/- 4.6 %
DC / AC Power Source	DC= +/- 0.13%, AC= +/- 0.2%

### Radiated Spurious Emission:

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

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

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

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## 6. MAXMUM OUTPUT POWER

### 6.1. Standard Applicable

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

#### ERP/EIRP LIMIT

According to FCC §2.1046

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

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

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

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

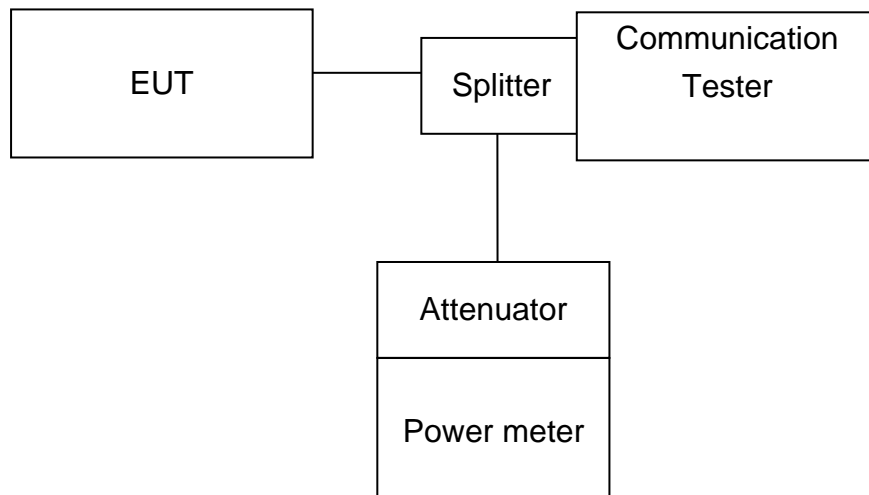
FCC 27.50(d)(4) Fixed, mobile, and portable (hand-held) stations are limited to 1W EIRP.

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

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

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

### 6.2. Test Set-up



**Note:** Measurement setup for testing on Antenna connector

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### 6.3. Measurement Procedure

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

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

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

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

#### TEST PROCEDURE:

ANSI C63.26:2015

KDB 971168 Section 5.6

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

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

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

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

LC = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

For devices utilizing multiple antennas, KDB 662911 provides guidance for determining the effective array transmit antenna gain term to be used in the above equation.

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#### 6.4. Measurement Equipment Used

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

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## 6.5. Measurement Result

### RF Conducted Output Power

#### WCDMA MODE:

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

#### Results:

##### WCDMA/HSUPA/HSDPA Band II Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	24.08	0.97	25.05	33.00	-7.95
	1880.0	9400	24.29	0.97	25.26	33.00	-7.74
	1907.6	9538	24.09	0.97	25.06	33.00	-7.94
HSDPA	1852.4	9262	24.04	0.97	25.01	33.00	-7.99
	1880.0	9400	24.23	0.97	25.20	33.00	-7.80
	1907.6	9538	24.05	0.97	25.02	33.00	-7.98
HSUPA	1852.4	9262	23.54	0.97	24.51	33.00	-8.49
	1880.0	9400	23.75	0.97	24.72	33.00	-8.28
	1907.6	9538	23.57	0.97	24.54	33.00	-8.46

##### WCDMA/HSUPA/HSDPA Band IV Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	24.25	-0.27	23.98	30.00	-6.02
	1732.6	1413	24.19	-0.27	23.92	30.00	-6.08
	1752.6	1513	24.18	-0.27	23.91	30.00	-6.09
HSDPA	1712.4	1312	24.21	-0.27	23.94	30.00	-6.06
	1732.6	1413	24.11	-0.27	23.84	30.00	-6.16
	1752.6	1513	24.13	-0.27	23.86	30.00	-6.14
HSUPA	1712.4	1312	23.64	-0.27	23.37	30.00	-6.63
	1732.6	1413	23.55	-0.27	23.28	30.00	-6.72
	1752.6	1513	23.63	-0.27	23.36	30.00	-6.64

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## WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	24.09	-1.73	22.36	38.50	-16.14
	836.6	4183	24.14	-1.73	<b>22.41</b>	38.50	-16.09
	846.6	4233	24.08	-1.73	22.35	38.50	-16.15
HSDPA	826.4	4132	24.06	-1.73	22.33	38.50	-16.17
	836.6	4183	24.11	-1.73	<b>22.38</b>	38.50	-16.12
	846.6	4233	24.06	-1.73	22.33	38.50	-16.17
HSUPA	826.4	4132	23.56	-1.73	21.83	38.50	-16.67
	836.6	4183	23.59	-1.73	<b>21.86</b>	38.50	-16.64
	846.6	4233	23.48	-1.73	21.75	38.50	-16.75

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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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH(FOR HSDPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$ (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:  $\beta$  values for transmitter characteristics tests with HS-DPCCH and E-DCH(FOR HSUPA)

Sub-test	$\beta_c$	$\beta_d$	$\beta_d$ (SF)	$\beta_c/\beta_d$	$\beta_{HS}$	$\beta_{ec}$	$\beta_{ed}$	$\beta_{ed}$ (SF)	$\beta_{ed}$ (Code s)	CM (dB)	MPR (dB)	AG Index	E-TFCI	RMC (Kbps)
1	11/15 (Note 3)	15/15 (Note 3)	64	11/15 (Note 3)	22/15	209/225	1309/225	4	1	1.0	0.0	20	75	12.2
2	6/15	15/15	64	6/15	12/15	12/15	94/75	4	1	3.0	2.0	12	67	12.2
3	15/15	9/15	64	15/9	30/15	30/15	$\beta_{ed1}$ : 47/15 $\beta_{ed2}$ : 47/15	4 4	2	2.0	1.0	15	92	12.2
4	2/15	15/15	64	2/15	4/15	2/15	56/75	4	1	3.0	2.0	17	71	12.2
5	15/15 (Note 4)	15/15 (Note 4)	64	15/15 (Note 4)	30/15	24/15	134/15	4	1	1.0	0.0	21	81	12.2

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

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## Results:

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	24.04	24.23	24.05
	2	23.02	23.21	23.06
	3	22.48	22.69	22.52
	4	22.22	22.41	22.27

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	24.21	24.11	24.13
	2	23.16	23.03	23.12
	3	22.61	22.47	22.66
	4	22.39	22.18	22.38

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	24.06	24.11	24.06
	2	23.03	23.06	22.92
	3	22.52	22.54	22.34
	4	22.21	22.26	22.04

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	23.54	23.75	23.57
	2	24.02	24.21	24.03
	3	22.49	22.71	22.57
	4	23.98	24.22	24.01
	5	23.01	23.21	23.05

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	23.64	23.55	23.63
	2	24.18	24.15	24.11
	3	22.63	22.46	22.65
	4	24.13	24.11	24.10
	5	23.17	22.99	23.11

Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	23.56	23.59	23.48
	2	24.03	24.07	24.01
	3	22.51	22.54	22.36
	4	23.97	24.01	23.91
	5	23.03	23.05	22.89

## WCDMA/HSDPA/HSUPA band II, IV, V

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

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# LTE Result:

Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	23.35	24.32	33	-8.68
				1	5	23.37	24.34	33	-8.66
				3	2	22.84	23.81	33	-9.19
				6	0	22.34	23.31	33	-9.69
	18900	1880	QPSK	1	0	23.54	24.51	33	-8.49
				1	5	23.43	24.40	33	-8.6
				3	2	22.89	23.86	33	-9.14
				6	0	22.64	23.61	33	-9.39
	19193	1909.3	QPSK	1	0	23.17	24.14	33	-8.86
				1	5	23.05	24.02	33	-8.98
				3	2	22.54	23.51	33	-9.49
				6	0	22.15	23.12	33	-9.88
	18607	1850.7	16QAM	1	0	22.56	23.53	33	-9.47
				1	5	22.55	23.52	33	-9.48
				3	2	22.54	23.51	33	-9.49
				6	0	21.62	22.59	33	-10.41
	18900	1880	16QAM	1	0	22.93	23.90	33	-9.1
				1	5	22.82	23.79	33	-9.21
				3	2	22.91	23.88	33	-9.12
				6	0	21.87	22.84	33	-10.16
	19193	1909.3	16QAM	1	0	22.36	23.33	33	-9.67
				1	5	22.46	23.43	33	-9.57
				3	2	22.31	23.28	33	-9.72
				6	0	21.42	22.39	33	-10.61
	18607	1850.7	64QAM	1	0	21.51	22.48	33	-10.52
				1	5	21.52	22.49	33	-10.51
				3	2	21.53	22.50	33	-10.5
				6	0	20.59	21.56	33	-11.44
	18900	1880	64QAM	1	0	21.84	22.81	33	-10.19
				1	5	21.79	22.76	33	-10.24
				3	2	21.81	22.78	33	-10.22
				6	0	20.80	21.77	33	-11.23
	19193	1909.3	64QAM	1	0	21.34	22.31	33	-10.69
				1	5	21.40	22.37	33	-10.63
				3	2	21.24	22.21	33	-10.79
				6	0	20.39	21.36	33	-11.64

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	23.04	24.01	33	-8.99
				1	14	23.21	24.18	33	-8.82
				8	4	21.96	22.93	33	-10.07
				15	0	22.05	23.02	33	-9.98
	18900	1880	QPSK	1	0	23.08	24.05	33	-8.95
				1	14	23.17	24.14	33	-8.86
				8	4	22.26	23.23	33	-9.77
				15	0	22.24	23.21	33	-9.79
	19185	1908.5	QPSK	1	0	22.92	23.89	33	-9.11
				1	14	22.68	23.65	33	-9.35
				8	4	22.38	23.35	33	-9.65
				15	0	22.27	23.24	33	-9.76
	18615	1851.5	16QAM	1	0	22.24	23.21	33	-9.79
				1	14	22.42	23.39	33	-9.61
				8	4	21.00	21.97	33	-11.03
				15	0	21.44	22.41	33	-10.59
	18900	1880	16QAM	1	0	22.70	23.67	33	-9.33
				1	14	22.63	23.60	33	-9.4
				8	4	21.36	22.33	33	-10.67
				15	0	21.26	22.23	33	-10.77
	19185	1908.5	16QAM	1	0	22.62	23.59	33	-9.41
				1	14	22.17	23.14	33	-9.86
				8	4	21.42	22.39	33	-10.61
				15	0	21.35	22.32	33	-10.68
	18615	1851.5	64QAM	1	0	21.19	22.16	33	-10.84
				1	14	21.41	22.38	33	-10.62
				8	4	19.92	20.89	33	-12.11
				15	0	20.35	21.32	33	-11.68
	18900	1880	64QAM	1	0	21.61	22.58	33	-10.42
				1	14	21.55	22.52	33	-10.48
				8	4	20.36	21.33	33	-11.67
				15	0	20.16	21.13	33	-11.87
	19185	1908.5	64QAM	1	0	21.52	22.49	33	-10.51
				1	14	21.13	22.10	33	-10.9
				8	4	20.33	21.30	33	-11.7
				15	0	20.25	21.22	33	-11.78

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	23.22	24.19	33	-8.81
				1	24	23.30	24.27	33	-8.73
				12	6	22.16	23.13	33	-9.87
				25	0	22.22	23.19	33	-9.81
	18900	1880	QPSK	1	0	23.13	24.10	33	-8.9
				1	24	23.19	24.16	33	-8.84
				12	6	22.34	23.31	33	-9.69
				25	0	22.43	23.40	33	-9.6
	19175	1907.5	QPSK	1	0	23.08	24.05	33	-8.95
				1	24	22.81	23.78	33	-9.22
				12	6	22.42	23.39	33	-9.61
				25	0	22.44	23.41	33	-9.59
	18625	1852.5	16QAM	1	0	22.38	23.35	33	-9.65
				1	24	22.47	23.44	33	-9.56
				12	6	21.07	22.04	33	-10.96
				25	0	21.50	22.47	33	-10.53
	18900	1880	16QAM	1	0	22.81	23.78	33	-9.22
				1	24	22.74	23.71	33	-9.29
				12	6	21.41	22.38	33	-10.62
				25	0	21.47	22.44	33	-10.56
	19175	1907.5	16QAM	1	0	22.68	23.65	33	-9.35
				1	24	22.23	23.20	33	-9.8
				12	6	21.58	22.55	33	-10.45
				25	0	21.56	22.53	33	-10.47
	18625	1852.5	64QAM	1	0	21.36	22.33	33	-10.67
				1	24	21.46	22.43	33	-10.57
				12	6	20.02	20.99	33	-12.01
				25	0	20.42	21.39	33	-11.61
	18900	1880	64QAM	1	0	21.78	22.75	33	-10.25
				1	24	21.66	22.63	33	-10.37
				12	6	20.31	21.28	33	-11.72
				25	0	20.43	21.40	33	-11.6
	19175	1907.5	64QAM	1	0	21.58	22.55	33	-10.45
				1	24	21.16	22.13	33	-10.87
				12	6	20.54	21.51	33	-11.49
				25	0	20.49	21.46	33	-11.54

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	23.31	24.28	33	-8.72
				1	49	23.39	<b>24.36</b>	33	-8.64
				25	12	22.28	23.25	33	-9.75
				50	0	22.36	23.33	33	-9.67
	18900	1880	QPSK	1	0	23.24	24.21	33	-8.79
				1	49	23.31	24.28	33	-8.72
				25	12	22.54	23.51	33	-9.49
				50	0	22.51	23.48	33	-9.52
	19150	1905	QPSK	1	0	23.24	24.21	33	-8.79
				1	49	22.91	23.88	33	-9.12
				25	12	22.49	23.46	33	-9.54
				50	0	22.61	23.58	33	-9.42
	18650	1855	16QAM	1	0	22.46	23.43	33	-9.57
				1	49	22.68	23.65	33	-9.35
				25	12	21.28	22.25	33	-10.75
				50	0	21.56	22.53	33	-10.47
	18900	1880	16QAM	1	0	22.90	<b>23.87</b>	33	-9.13
				1	49	22.89	23.86	33	-9.14
				25	12	21.62	22.59	33	-10.41
				50	0	21.65	22.62	33	-10.38
	19150	1905	16QAM	1	0	22.76	23.73	33	-9.27
				1	49	22.40	23.37	33	-9.63
				25	12	21.68	22.65	33	-10.35
				50	0	21.64	22.61	33	-10.39
	18650	1855	64QAM	1	0	21.46	22.43	33	-10.57
				1	49	21.59	22.56	33	-10.44
				25	12	20.23	21.20	33	-11.8
				50	0	20.52	21.49	33	-11.51
	18900	1880	64QAM	1	0	21.87	<b>22.84</b>	33	-10.16
				1	49	21.80	22.77	33	-10.23
				25	12	20.59	21.56	33	-11.44
				50	0	20.64	21.61	33	-11.39
	19150	1905	64QAM	1	0	21.74	22.71	33	-10.29
				1	49	21.35	22.32	33	-10.68
				25	12	20.67	21.64	33	-11.36
				50	0	20.60	21.57	33	-11.43

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Antenna gain (dBi) 0.97

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	23.34	24.31	33	-8.69
				1	74	23.42	24.39	33	-8.61
				36	18	22.37	23.34	33	-9.66
				75	0	22.47	23.44	33	-9.56
	18900	1880	QPSK	1	0	23.45	24.42	33	-8.58
				1	74	23.40	24.37	33	-8.63
				36	18	22.69	23.66	33	-9.34
				75	0	22.66	23.63	33	-9.37
	19125	1902.5	QPSK	1	0	23.43	24.40	33	-8.6
				1	74	23.12	24.09	33	-8.91
				36	18	22.68	23.65	33	-9.35
				75	0	22.72	23.69	33	-9.31
	18675	1857.5	16QAM	1	0	22.65	23.62	33	-9.38
				1	74	22.85	23.82	33	-9.18
				36	18	21.47	22.44	33	-10.56
				75	0	21.58	22.55	33	-10.45
	18900	1880	16QAM	1	0	23.00	23.97	33	-9.03
				1	74	22.96	23.93	33	-9.07
				36	18	21.77	22.74	33	-10.26
				75	0	21.77	22.74	33	-10.26
	19125	1902.5	16QAM	1	0	22.79	23.76	33	-9.24
				1	74	22.54	23.51	33	-9.49
				36	18	21.70	22.67	33	-10.33
				75	0	21.70	22.67	33	-10.33
	18675	1857.5	64QAM	1	0	21.64	22.61	33	-10.39
				1	74	21.83	22.80	33	-10.2
				36	18	20.44	21.41	33	-11.59
				75	0	20.58	21.55	33	-11.45
	18900	1880	64QAM	1	0	21.90	22.87	33	-10.13
				1	74	21.96	22.93	33	-10.07
				36	18	20.70	21.67	33	-11.33
				75	0	20.71	21.68	33	-11.32
	19125	1902.5	64QAM	1	0	21.72	22.69	33	-10.31
				1	74	21.50	22.47	33	-10.53
				36	18	20.66	21.63	33	-11.37
				75	0	20.61	21.58	33	-11.42

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Antenna gain (dBi) 0.97

LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	23.38	24.35	33	-8.65
				1	99	23.62	24.59	33	-8.41
				50	25	22.54	23.51	33	-9.49
				100	0	22.59	23.56	33	-9.44
	18900	1880	QPSK	1	0	23.69	24.66	33	-8.34
				1	99	23.56	24.53	33	-8.47
				50	25	22.79	23.76	33	-9.24
				100	0	22.81	23.78	33	-9.22
	19100	1900	QPSK	1	0	23.60	24.57	33	-8.43
				1	99	23.32	24.29	33	-8.71
				50	25	22.73	23.70	33	-9.3
				100	0	22.80	23.77	33	-9.23
	18700	1860	16QAM	1	0	22.73	23.70	33	-9.3
				1	99	22.96	23.93	33	-9.07
				50	25	21.57	22.54	33	-10.46
				100	0	21.61	22.58	33	-10.42
	18900	1880	16QAM	1	0	22.98	23.95	33	-9.05
				1	99	22.95	23.92	33	-9.08
				50	25	21.84	22.81	33	-10.19
				100	0	21.87	22.84	33	-10.16
	19100	1900	16QAM	1	0	22.82	23.79	33	-9.21
				1	99	22.68	23.65	33	-9.35
				50	25	21.76	22.73	33	-10.27
				100	0	21.82	22.79	33	-10.21
	18700	1860	64QAM	1	0	21.68	22.65	33	-10.35
				1	99	21.91	22.88	33	-10.12
				50	25	20.57	21.54	33	-11.46
				100	0	20.56	21.53	33	-11.47
	18900	1880	64QAM	1	0	21.95	22.92	33	-10.08
				1	99	21.91	22.88	33	-10.12
				50	25	20.78	21.75	33	-11.25
				100	0	20.87	21.84	33	-11.16
	19100	1900	64QAM	1	0	21.74	22.71	33	-10.29
				1	99	21.62	22.59	33	-10.41
				50	25	20.74	21.71	33	-11.29
				100	0	20.72	21.69	33	-11.31

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	19957	1710.7	QPSK	1	0	23.54	23.27	30	-6.73
				1	5	23.59	23.32	30	-6.68
				3	2	22.92	22.65	30	-7.35
				6	0	22.58	22.31	30	-7.69
	20175	1732.5	QPSK	1	0	23.59	23.32	30	-6.68
				1	5	23.57	23.30	30	-6.7
				3	2	22.95	22.68	30	-7.32
				6	0	22.60	22.33	30	-7.67
	20393	1754.3	QPSK	1	0	23.63	23.36	30	-6.64
				1	5	23.70	23.43	30	-6.57
				3	2	22.86	22.59	30	-7.41
				6	0	22.71	22.44	30	-7.56
	19957	1710.7	16QAM	1	0	22.90	22.63	30	-7.37
				1	5	22.90	22.63	30	-7.37
				3	2	22.67	22.40	30	-7.6
				6	0	21.69	21.42	30	-8.58
	20175	1732.5	16QAM	1	0	22.88	22.61	30	-7.39
				1	5	22.88	22.61	30	-7.39
				3	2	22.65	22.38	30	-7.62
				6	0	21.68	21.41	30	-8.59
	20393	1754.3	16QAM	1	0	22.84	22.57	30	-7.43
				1	5	22.82	22.55	30	-7.45
				3	2	22.79	22.52	30	-7.48
				6	0	21.78	21.51	30	-8.49
	19957	1710.7	64QAM	1	0	21.86	21.59	30	-8.41
				1	5	21.89	21.62	30	-8.38
				3	2	21.64	21.37	30	-8.63
				6	0	20.60	20.33	30	-9.67
	20175	1732.5	64QAM	1	0	21.88	21.61	30	-8.39
				1	5	21.83	21.56	30	-8.44
				3	2	21.58	21.31	30	-8.69
				6	0	20.60	20.33	30	-9.67
	20393	1754.3	64QAM	1	0	21.83	21.56	30	-8.44
				1	5	21.80	21.53	30	-8.47
				3	2	21.74	21.47	30	-8.53
				6	0	20.69	20.42	30	-9.58

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	19965	1711.5	QPSK	1	0	23.11	22.84	30	-7.16
				1	14	23.18	22.91	30	-7.09
				8	4	22.15	21.88	30	-8.12
				15	0	22.27	22.00	30	-8
	20175	1732.5	QPSK	1	0	23.44	23.17	30	-6.83
				1	14	23.28	23.01	30	-6.99
				8	4	22.10	21.83	30	-8.17
				15	0	22.14	21.87	30	-8.13
	20385	1753.5	QPSK	1	0	23.10	22.83	30	-7.17
				1	14	23.08	22.81	30	-7.19
				8	4	22.08	21.81	30	-8.19
				15	0	21.98	21.71	30	-8.29
	19965	1711.5	16QAM	1	0	22.46	22.19	30	-7.81
				1	14	22.51	22.24	30	-7.76
				8	4	21.37	21.10	30	-8.9
				15	0	21.22	20.95	30	-9.05
	20175	1732.5	16QAM	1	0	22.58	22.31	30	-7.69
				1	14	22.57	22.30	30	-7.7
				8	4	21.24	20.97	30	-9.03
				15	0	21.09	20.82	30	-9.18
	20385	1753.5	16QAM	1	0	22.35	22.08	30	-7.92
				1	14	22.61	22.34	30	-7.66
				8	4	21.00	20.73	30	-9.27
				15	0	21.21	20.94	30	-9.06
	19965	1711.5	64QAM	1	0	21.36	21.09	30	-8.91
				1	14	21.50	21.23	30	-8.77
				8	4	20.36	20.09	30	-9.91
				15	0	20.15	19.88	30	-10.12
	20175	1732.5	64QAM	1	0	21.49	21.22	30	-8.78
				1	14	21.47	21.20	30	-8.8
				8	4	20.19	19.92	30	-10.08
				15	0	20.02	19.75	30	-10.25
	20385	1753.5	64QAM	1	0	21.34	21.07	30	-8.93
				1	14	21.53	21.26	30	-8.74
				8	4	19.92	19.65	30	-10.35
				15	0	20.17	19.90	30	-10.1

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	19975	1712.5	QPSK	1	0	23.27	23.00	30	-7
				1	24	23.29	23.02	30	-6.98
				12	6	22.31	22.04	30	-7.96
				25	0	22.38	22.11	30	-7.89
	20175	1732.5	QPSK	1	0	23.61	23.34	30	-6.66
				1	24	23.45	23.18	30	-6.82
				12	6	22.28	22.01	30	-7.99
				25	0	22.21	21.94	30	-8.06
	20375	1752.5	QPSK	1	0	23.31	23.04	30	-6.96
				1	24	23.18	22.91	30	-7.09
				12	6	22.27	22.00	30	-8
				25	0	22.18	21.91	30	-8.09
	19975	1712.5	16QAM	1	0	22.57	22.30	30	-7.7
				1	24	22.55	22.28	30	-7.72
				12	6	21.49	21.22	30	-8.78
				25	0	21.40	21.13	30	-8.87
	20175	1732.5	16QAM	1	0	22.61	22.34	30	-7.66
				1	24	22.78	22.51	30	-7.49
				12	6	21.34	21.07	30	-8.93
				25	0	21.19	20.92	30	-9.08
	20375	1752.5	16QAM	1	0	22.54	22.27	30	-7.73
				1	24	22.76	22.49	30	-7.51
				12	6	21.21	20.94	30	-9.06
				25	0	21.37	21.10	30	-8.9
	19975	1712.5	64QAM	1	0	21.50	21.23	30	-8.77
				1	24	21.52	21.25	30	-8.75
				12	6	20.44	20.17	30	-9.83
				25	0	20.40	20.13	30	-9.87
	20175	1732.5	64QAM	1	0	21.52	21.25	30	-8.75
				1	24	21.68	21.41	30	-8.59
				12	6	20.27	20.00	30	-10
				25	0	20.12	19.85	30	-10.15
	20375	1752.5	64QAM	1	0	21.44	21.17	30	-8.83
				1	24	21.75	21.48	30	-8.52
				12	6	20.12	19.85	30	-10.15
				25	0	20.35	20.08	30	-9.92

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20000	1715	QPSK	1	0	23.42	23.15	30	-6.85
				1	49	23.35	23.08	30	-6.92
				25	12	22.49	22.22	30	-7.78
				50	0	22.57	22.30	30	-7.7
	20175	1732.5	QPSK	1	0	23.63	23.36	30	-6.64
				1	49	23.57	23.30	30	-6.7
				25	12	22.35	22.08	30	-7.92
				50	0	22.32	22.05	30	-7.95
	20375	1750	QPSK	1	0	23.51	23.24	30	-6.76
				1	49	23.39	23.12	30	-6.88
				25	12	22.37	22.10	30	-7.9
				50	0	22.37	22.10	30	-7.9
	20000	1715	16QAM	1	0	22.75	22.48	30	-7.52
				1	49	22.74	22.47	30	-7.53
				25	12	21.60	21.33	30	-8.67
				50	0	21.53	21.26	30	-8.74
	20175	1732.5	16QAM	1	0	22.80	22.53	30	-7.47
				1	49	22.82	22.55	30	-7.45
				25	12	21.42	21.15	30	-8.85
				50	0	21.31	21.04	30	-8.96
	20375	1750	16QAM	1	0	22.65	22.38	30	-7.62
				1	49	22.78	22.51	30	-7.49
				25	12	21.41	21.14	30	-8.86
				50	0	21.39	21.12	30	-8.88
	20000	1715	64QAM	1	0	21.65	21.38	30	-8.62
				1	49	21.70	21.43	30	-8.57
				25	12	20.56	20.29	30	-9.71
				50	0	20.46	20.19	30	-9.81
	20175	1732.5	64QAM	1	0	21.78	21.51	30	-8.49
				1	49	21.81	21.54	30	-8.46
				25	12	20.34	20.07	30	-9.93
				50	0	20.31	20.04	30	-9.96
	20375	1750	64QAM	1	0	21.55	21.28	30	-8.72
				1	49	21.72	21.45	30	-8.55
				25	12	20.39	20.12	30	-9.88
				50	0	20.38	20.11	30	-9.89

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20025	1717.5	QPSK	1	0	23.55	23.28	30	-6.72
				1	74	23.44	23.17	30	-6.83
				36	18	22.63	22.36	30	-7.64
				75	0	22.72	22.45	30	-7.55
	20175	1732.5	QPSK	1	0	23.66	23.39	30	-6.61
				1	74	23.69	23.42	30	-6.58
				36	18	22.44	22.17	30	-7.83
				75	0	22.47	22.20	30	-7.8
	20325	1747.5	QPSK	1	0	23.72	23.45	30	-6.55
				1	74	23.57	23.30	30	-6.7
				36	18	22.44	22.17	30	-7.83
				75	0	22.50	22.23	30	-7.77
	20025	1717.5	16QAM	1	0	22.90	22.63	30	-7.37
				1	74	22.88	22.61	30	-7.39
				36	18	21.66	21.39	30	-8.61
				75	0	21.55	21.28	30	-8.72
	20175	1732.5	16QAM	1	0	22.91	22.64	30	-7.36
				1	74	22.85	22.58	30	-7.42
				36	18	21.51	21.24	30	-8.76
				75	0	21.45	21.18	30	-8.82
	20325	1747.5	16QAM	1	0	22.77	22.50	30	-7.5
				1	74	22.98	22.71	30	-7.29
				36	18	21.61	21.34	30	-8.66
				75	0	21.58	21.31	30	-8.69
	20025	1717.5	64QAM	1	0	21.89	21.62	30	-8.38
				1	74	21.85	21.58	30	-8.42
				36	18	20.57	20.30	30	-9.7
				75	0	20.52	20.25	30	-9.75
	20175	1732.5	64QAM	1	0	21.88	21.61	30	-8.39
				1	74	21.77	21.50	30	-8.5
				36	18	20.43	20.16	30	-9.84
				75	0	20.45	20.18	30	-9.82
	20325	1747.5	64QAM	1	0	21.73	21.46	30	-8.54
				1	74	21.89	21.62	30	-8.38
				36	18	20.60	20.33	30	-9.67
				75	0	20.54	20.27	30	-9.73

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Antenna gain (dBi) -0.27

LTE Band 4_Uplink frequency band : 1710 to 1755 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20050	1720	QPSK	1	0	23.94	23.67	30	-6.33
				1	99	23.90	23.63	30	-6.37
				50	25	22.97	22.70	30	-7.3
				100	0	22.99	22.72	30	-7.28
	20175	1732.5	QPSK	1	0	23.96	23.69	30	-6.31
				1	99	23.97	23.70	30	-6.3
				50	25	22.81	22.54	30	-7.46
				100	0	22.87	22.60	30	-7.4
	20300	1745	QPSK	1	0	23.99	23.72	30	-6.28
				1	99	23.93	23.66	30	-6.34
				50	25	22.89	22.62	30	-7.38
				100	0	22.92	22.65	30	-7.35
	20050	1720	16QAM	1	0	22.97	22.70	30	-7.3
				1	99	23.00	22.73	30	-7.27
				50	25	21.74	21.47	30	-8.53
				100	0	21.75	21.48	30	-8.52
	20175	1732.5	16QAM	1	0	22.93	22.66	30	-7.34
				1	99	22.94	22.67	30	-7.33
				50	25	21.61	21.34	30	-8.66
				100	0	21.66	21.39	30	-8.61
	20300	1745	16QAM	1	0	22.94	22.67	30	-7.33
				1	99	23.00	22.73	30	-7.27
				50	25	21.71	21.44	30	-8.56
				100	0	21.71	21.44	30	-8.56
	20050	1720	64QAM	1	0	21.97	21.70	30	-8.3
				1	99	21.96	21.69	30	-8.31
				50	25	20.67	20.40	30	-9.6
				100	0	20.65	20.38	30	-9.62
	20175	1732.5	64QAM	1	0	21.90	21.63	30	-8.37
				1	99	21.89	21.62	30	-8.38
				50	25	20.52	20.25	30	-9.75
				100	0	20.63	20.36	30	-9.64
	20300	1745	64QAM	1	0	21.93	21.66	30	-8.34
				1	99	21.95	21.68	30	-8.32
				50	25	20.70	20.43	30	-9.57
				100	0	20.64	20.37	30	-9.63

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.30	19.42	21.57	38.45	-16.88
				1	5	23.30	19.42	21.57	38.45	-16.88
				3	2	23.26	19.38	21.53	38.45	-16.92
				6	0	22.27	18.39	20.54	38.45	-17.91
	20525	836.5	QPSK	1	0	23.37	19.49	21.64	38.45	-16.81
				1	5	23.38	19.50	21.65	38.45	-16.8
				3	2	23.34	19.46	21.61	38.45	-16.84
				6	0	22.37	18.49	20.64	38.45	-17.81
	20643	848.3	QPSK	1	0	23.47	19.59	21.74	38.45	-16.71
				1	5	23.44	19.56	21.71	38.45	-16.74
				3	2	23.38	19.50	21.65	38.45	-16.8
				6	0	22.43	18.55	20.70	38.45	-17.75
	20407	824.7	16QAM	1	0	22.58	18.70	20.85	38.45	-17.6
				1	5	22.58	18.70	20.85	38.45	-17.6
				3	2	22.36	18.48	20.63	38.45	-17.82
				6	0	21.33	17.45	19.60	38.45	-18.85
	20525	836.5	16QAM	1	0	22.64	18.76	20.91	38.45	-17.54
				1	5	22.65	18.77	20.92	38.45	-17.53
				3	2	22.40	18.52	20.67	38.45	-17.78
				6	0	21.41	17.53	19.68	38.45	-18.77
	20643	848.3	16QAM	1	0	22.68	18.80	20.95	38.45	-17.5
				1	5	22.58	18.70	20.85	38.45	-17.6
				3	2	22.40	18.52	20.67	38.45	-17.78
				6	0	21.40	17.52	19.67	38.45	-18.78
	20407	824.7	64QAM	1	0	21.52	17.64	19.79	38.45	-18.66
				1	5	21.50	17.62	19.77	38.45	-18.68
				3	2	21.34	17.46	19.61	38.45	-18.84
				6	0	20.32	16.44	18.59	38.45	-19.86
	20525	836.5	64QAM	1	0	21.57	17.69	19.84	38.45	-18.61
				1	5	21.64	17.76	19.91	38.45	-18.54
				3	2	21.40	17.52	19.67	38.45	-18.78
				6	0	20.41	16.53	18.68	38.45	-19.77
	20643	848.3	64QAM	1	0	21.66	17.78	19.93	38.45	-18.52
				1	5	21.49	17.61	19.76	38.45	-18.69
				3	2	21.34	17.46	19.61	38.45	-18.84
				6	0	20.31	16.43	18.58	38.45	-19.87

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.21	19.33	21.48	38.45	-16.97
				1	14	23.31	19.43	21.58	38.45	-16.87
				8	4	22.32	18.44	20.59	38.45	-17.86
				15	0	22.28	18.40	20.55	38.45	-17.9
	20525	836.5	QPSK	1	0	23.27	19.39	21.54	38.45	-16.91
				1	14	23.32	19.44	21.59	38.45	-16.86
				8	4	22.55	18.67	20.82	38.45	-17.63
				15	0	22.38	18.50	20.65	38.45	-17.8
	20635	847.5	QPSK	1	0	23.19	19.31	21.46	38.45	-16.99
				1	14	23.51	19.63	21.78	38.45	-16.67
				8	4	22.36	18.48	20.63	38.45	-17.82
				15	0	22.45	18.57	20.72	38.45	-17.73
	20415	825.5	16QAM	1	0	22.48	18.60	20.75	38.45	-17.7
				1	14	22.85	18.97	21.12	38.45	-17.33
				8	4	21.35	17.47	19.62	38.45	-18.83
				15	0	21.39	17.51	19.66	38.45	-18.79
	20525	836.5	16QAM	1	0	22.81	18.93	21.08	38.45	-17.37
				1	14	22.63	18.75	20.90	38.45	-17.55
				8	4	21.53	17.65	19.80	38.45	-18.65
				15	0	21.57	17.69	19.84	38.45	-18.61
	20635	847.5	16QAM	1	0	22.51	18.63	20.78	38.45	-17.67
				1	14	22.70	18.82	20.97	38.45	-17.48
				8	4	21.64	17.76	19.91	38.45	-18.54
				15	0	21.43	17.55	19.70	38.45	-18.75
	20415	825.5	64QAM	1	0	21.44	17.56	19.71	38.45	-18.74
				1	14	21.75	17.87	20.02	38.45	-18.43
				8	4	20.26	16.38	18.53	38.45	-19.92
				15	0	20.36	16.48	18.63	38.45	-19.82
	20525	836.5	64QAM	1	0	21.81	17.93	20.08	38.45	-18.37
				1	14	21.61	17.73	19.88	38.45	-18.57
				8	4	20.53	16.65	18.80	38.45	-19.65
				15	0	20.48	16.60	18.75	38.45	-19.7
	20635	847.5	64QAM	1	0	21.41	17.53	19.68	38.45	-18.77
				1	14	21.61	17.73	19.88	38.45	-18.57
				8	4	20.63	16.75	18.90	38.45	-19.55
				15	0	20.41	16.53	18.68	38.45	-19.77

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.39	19.51	21.66	38.45	-16.79
				1	24	23.48	19.60	21.75	38.45	-16.7
				12	6	22.40	18.52	20.67	38.45	-17.78
				25	0	22.36	18.48	20.63	38.45	-17.82
	20525	836.5	QPSK	1	0	23.43	19.55	21.70	38.45	-16.75
				1	24	23.50	19.62	21.77	38.45	-16.68
				12	6	22.62	18.74	20.89	38.45	-17.56
				25	0	22.54	18.66	20.81	38.45	-17.64
	20625	846.5	QPSK	1	0	23.38	19.50	21.65	38.45	-16.8
				1	24	23.61	19.73	21.88	38.45	-16.57
				12	6	22.49	18.61	20.76	38.45	-17.69
				25	0	22.58	18.70	20.85	38.45	-17.6
	20425	826.5	16QAM	1	0	22.62	18.74	20.89	38.45	-17.56
				1	24	22.93	19.05	21.20	38.45	-17.25
				12	6	21.41	17.53	19.68	38.45	-18.77
				25	0	21.50	17.62	19.77	38.45	-18.68
	20525	836.5	16QAM	1	0	22.84	18.96	21.11	38.45	-17.34
				1	24	22.81	18.93	21.08	38.45	-17.37
				12	6	21.72	17.84	19.99	38.45	-18.46
				25	0	21.61	17.73	19.88	38.45	-18.57
	20625	846.5	16QAM	1	0	22.62	18.74	20.89	38.45	-17.56
				1	24	22.87	18.99	21.14	38.45	-17.31
				12	6	21.70	17.82	19.97	38.45	-18.48
				25	0	21.49	17.61	19.76	38.45	-18.69
	20425	826.5	64QAM	1	0	21.52	17.64	19.79	38.45	-18.66
				1	24	21.85	17.97	20.12	38.45	-18.33
				12	6	20.36	16.48	18.63	38.45	-19.82
				25	0	20.49	16.61	18.76	38.45	-19.69
	20525	836.5	64QAM	1	0	21.79	17.91	20.06	38.45	-18.39
				1	24	21.76	17.88	20.03	38.45	-18.42
				12	6	20.65	16.77	18.92	38.45	-19.53
				25	0	20.58	16.70	18.85	38.45	-19.6
	20625	846.5	64QAM	1	0	21.62	17.74	19.89	38.45	-18.56
				1	24	21.82	17.94	20.09	38.45	-18.36
				12	6	20.61	16.73	18.88	38.45	-19.57
				25	0	20.41	16.53	18.68	38.45	-19.77

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Antenna gain (dBi) -1.73

LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.68	19.80	21.95	38.45	-16.5
				1	49	23.59	19.71	21.86	38.45	-16.59
				25	12	22.50	18.62	20.77	38.45	-17.68
				50	0	22.51	18.63	20.78	38.45	-17.67
	20525	836.5	QPSK	1	0	23.62	19.74	21.89	38.45	-16.56
				1	49	23.62	19.74	21.89	38.45	-16.56
				25	12	22.65	18.77	20.92	38.45	-17.53
				50	0	22.64	18.76	20.91	38.45	-17.54
	20600	844	QPSK	1	0	23.71	19.83	21.98	38.45	-16.47
				1	49	23.55	19.67	21.82	38.45	-16.63
				25	12	22.66	18.78	20.93	38.45	-17.52
				50	0	22.65	18.77	20.92	38.45	-17.53
	20450	829	16QAM	1	0	22.78	18.90	21.05	38.45	-17.4
				1	49	22.98	19.10	21.25	38.45	-17.2
				25	12	21.59	17.71	19.86	38.45	-18.59
				50	0	21.57	17.69	19.84	38.45	-18.61
	20525	836.5	16QAM	1	0	22.96	19.08	21.23	38.45	-17.22
				1	49	22.89	19.01	21.16	38.45	-17.29
				25	12	21.76	17.88	20.03	38.45	-18.42
				50	0	21.69	17.81	19.96	38.45	-18.49
	20600	844	16QAM	1	0	22.81	18.93	21.08	38.45	-17.37
				1	49	22.90	19.02	21.17	38.45	-17.28
				25	12	21.73	17.85	20.00	38.45	-18.45
				50	0	21.67	17.79	19.94	38.45	-18.51
	20450	829	64QAM	1	0	21.72	17.84	19.99	38.45	-18.46
				1	49	21.89	18.01	20.16	38.45	-18.29
				25	12	20.55	16.67	18.82	38.45	-19.63
				50	0	20.53	16.65	18.80	38.45	-19.65
	20525	836.5	64QAM	1	0	21.87	17.99	20.14	38.45	-18.31
				1	49	21.80	17.92	20.07	38.45	-18.38
				25	12	20.75	16.87	19.02	38.45	-19.43
				50	0	20.68	16.80	18.95	38.45	-19.5
	20600	844	64QAM	1	0	21.79	17.91	20.06	38.45	-18.39
				1	49	21.90	18.02	20.17	38.45	-18.28
				25	12	20.65	16.77	18.92	38.45	-19.53
				50	0	20.59	16.71	18.86	38.45	-19.59

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Antenna gain (dBi) 2.07

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	20775	2502.5	QPSK	1	0	23.31	25.38	33	-7.62
				1	24	23.47	25.54	33	-7.46
				12	6	22.28	24.35	33	-8.65
				25	0	22.30	24.37	33	-8.63
	21100	2535	QPSK	1	0	23.80	25.87	33	-7.13
				1	24	23.90	25.97	33	-7.03
				12	6	22.80	24.87	33	-8.13
				25	0	22.81	24.88	33	-8.12
	21375	2567.5	QPSK	1	0	23.84	25.91	33	-7.09
				1	24	23.99	26.06	33	-6.94
				12	6	22.78	24.85	33	-8.15
				25	0	22.80	24.87	33	-8.13
	20775	2502.5	16QAM	1	0	22.69	24.76	33	-8.24
				1	24	22.51	24.58	33	-8.42
				12	6	21.28	23.35	33	-9.65
				25	0	21.25	23.32	33	-9.68
	21100	2535	16QAM	1	0	22.88	24.95	33	-8.05
				1	24	22.85	24.92	33	-8.08
				12	6	21.80	23.87	33	-9.13
				25	0	21.78	23.85	33	-9.15
	21375	2567.5	16QAM	1	0	22.82	24.89	33	-8.11
				1	24	22.95	25.02	33	-7.98
				12	6	21.84	23.91	33	-9.09
				25	0	21.82	23.89	33	-9.11
	20775	2502.5	64QAM	1	0	21.64	23.71	33	-9.29
				1	24	21.45	23.52	33	-9.48
				12	6	20.25	22.32	33	-10.68
				25	0	20.23	22.30	33	-10.7
	21100	2535	64QAM	1	0	21.83	23.90	33	-9.1
				1	24	21.93	24.00	33	-9
				12	6	20.73	22.80	33	-10.2
				25	0	20.73	22.80	33	-10.2
	21375	2567.5	64QAM	1	0	21.79	23.86	33	-9.14
				1	24	21.90	23.97	33	-9.03
				12	6	20.84	22.91	33	-10.09
				25	0	20.73	22.80	33	-10.2

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Antenna gain (dBi) 2.07

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	20800	2505	QPSK	1	0	23.13	25.20	33	-7.8
				1	49	23.44	25.51	33	-7.49
				25	12	22.21	24.28	33	-8.72
				50	0	22.19	24.26	33	-8.74
	21100	2535	QPSK	1	0	23.71	25.78	33	-7.22
				1	49	23.78	25.85	33	-7.15
				25	12	22.53	24.60	33	-8.4
				50	0	22.54	24.61	33	-8.39
	21350	2565	QPSK	1	0	23.68	25.75	33	-7.25
				1	49	23.57	25.64	33	-7.36
				25	12	22.70	24.77	33	-8.23
				50	0	22.64	24.71	33	-8.29
	20800	2505	16QAM	1	0	22.20	24.27	33	-8.73
				1	49	22.61	24.68	33	-8.32
				25	12	21.24	23.31	33	-9.69
				50	0	21.33	23.40	33	-9.6
	21100	2535	16QAM	1	0	22.69	24.76	33	-8.24
				1	49	22.76	24.83	33	-8.17
				25	12	21.61	23.68	33	-9.32
				50	0	21.56	23.63	33	-9.37
	21350	2565	16QAM	1	0	22.66	24.73	33	-8.27
				1	49	22.67	24.74	33	-8.26
				25	12	21.66	23.73	33	-9.27
				50	0	21.57	23.64	33	-9.36
	20800	2505	64QAM	1	0	21.19	23.26	33	-9.74
				1	49	21.54	23.61	33	-9.39
				25	12	20.24	22.31	33	-10.69
				50	0	20.32	22.39	33	-10.61
	21100	2535	64QAM	1	0	21.69	23.76	33	-9.24
				1	49	21.76	23.83	33	-9.17
				25	12	20.59	22.66	33	-10.34
				50	0	20.56	22.63	33	-10.37
	21350	2565	64QAM	1	0	21.62	23.69	33	-9.31
				1	49	21.60	23.67	33	-9.33
				25	12	20.58	22.65	33	-10.35
				50	0	20.51	22.58	33	-10.42

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Antenna gain (dBi) 2.07

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	20825	2507.5	QPSK	1	0	23.27	25.34	33	-7.66
				1	74	23.53	25.60	33	-7.4
				36	18	22.23	24.30	33	-8.7
				75	0	22.24	24.31	33	-8.69
	21100	2535	QPSK	1	0	23.74	25.81	33	-7.19
				1	74	23.85	25.92	33	-7.08
				36	18	22.58	24.65	33	-8.35
				75	0	22.73	24.80	33	-8.2
	21375	2562.5	QPSK	1	0	23.86	25.93	33	-7.07
				1	74	23.68	25.75	33	-7.25
				36	18	22.88	24.95	33	-8.05
				75	0	22.77	24.84	33	-8.16
	20825	2507.5	16QAM	1	0	22.36	24.43	33	-8.57
				1	74	22.80	24.87	33	-8.13
				36	18	21.44	23.51	33	-9.49
				75	0	21.41	23.48	33	-9.52
	21100	2535	16QAM	1	0	22.84	24.91	33	-8.09
				1	74	22.83	24.90	33	-8.1
				36	18	21.77	23.84	33	-9.16
				75	0	21.67	23.74	33	-9.26
	21375	2562.5	16QAM	1	0	22.79	24.86	33	-8.14
				1	74	22.85	24.92	33	-8.08
				36	18	21.85	23.92	33	-9.08
				75	0	21.70	23.77	33	-9.23
	20825	2507.5	64QAM	1	0	21.30	23.37	33	-9.63
				1	74	21.78	23.85	33	-9.15
				36	18	20.39	22.46	33	-10.54
				75	0	20.39	22.46	33	-10.54
	21100	2535	64QAM	1	0	21.75	23.82	33	-9.18
				1	74	21.78	23.85	33	-9.15
				36	18	20.69	22.76	33	-10.24
				75	0	20.57	22.64	33	-10.36
	21375	2562.5	64QAM	1	0	21.76	23.83	33	-9.17
				1	74	21.77	23.84	33	-9.16
				36	18	20.75	22.82	33	-10.18
				75	0	20.67	22.74	33	-10.26

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Antenna gain (dBi) 2.07

LTE Band 7_Uplink frequency band : 2500 to 2570 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	20850	2510	QPSK	1	0	23.70	25.77	33	-7.23
				1	99	23.44	25.51	33	-7.49
				50	25	22.38	24.45	33	-8.55
				100	0	22.40	24.47	33	-8.53
	21100	2535	QPSK	1	0	24.00	26.07	33	-6.93
				1	99	23.90	25.97	33	-7.03
				50	25	22.77	24.84	33	-8.16
				100	0	22.80	24.87	33	-8.13
	21350	2560	QPSK	1	0	23.88	25.95	33	-7.05
				1	99	23.97	26.04	33	-6.96
				50	25	22.90	24.97	33	-8.03
				100	0	22.95	25.02	33	-7.98
	20850	2510	16QAM	1	0	22.40	24.47	33	-8.53
				1	99	22.93	25.00	33	-8
				50	25	21.49	23.56	33	-9.44
				100	0	21.48	23.55	33	-9.45
	21100	2535	16QAM	1	0	22.88	24.95	33	-8.05
				1	99	22.95	25.02	33	-7.98
				50	25	21.82	23.89	33	-9.11
				100	0	21.86	23.93	33	-9.07
	21350	2560	16QAM	1	0	22.97	25.04	33	-7.96
				1	99	22.96	25.03	33	-7.97
				50	25	21.98	24.05	33	-8.95
				100	0	21.89	23.96	33	-9.04
	20850	2510	64QAM	1	0	21.38	23.45	33	-9.55
				1	99	21.83	23.90	33	-9.1
				50	25	20.44	22.51	33	-10.49
				100	0	20.48	22.55	33	-10.45
	21100	2535	64QAM	1	0	21.85	23.92	33	-9.08
				1	99	21.86	23.93	33	-9.07
				50	25	20.76	22.83	33	-10.17
				100	0	20.81	22.88	33	-10.12
	21350	2560	64QAM	1	0	21.96	24.03	33	-8.97
				1	99	21.96	24.03	33	-8.97
				50	25	20.94	23.01	33	-9.99
				100	0	20.84	22.91	33	-10.09

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.56	19.78	21.93	34.77	-12.84
				1	5	22.66	19.88	22.03	34.77	-12.74
				3	2	22.62	19.84	21.99	34.77	-12.78
				6	0	21.65	18.87	21.02	34.77	-13.75
	23095	707.5	QPSK	1	0	22.95	20.17	22.32	34.77	-12.45
				1	5	22.94	20.16	22.31	34.77	-12.46
				3	2	22.90	20.12	22.27	34.77	-12.5
				6	0	21.93	19.15	21.30	34.77	-13.47
	23173	715.5	QPSK	1	0	23.07	20.29	22.44	34.77	-12.33
				1	5	23.13	20.35	22.50	34.77	-12.27
				3	2	23.00	20.22	22.37	34.77	-12.4
				6	0	22.07	19.29	21.44	34.77	-13.33
	23017	699.7	16QAM	1	0	21.88	19.10	21.25	34.77	-13.52
				1	5	21.93	19.15	21.30	34.77	-13.47
				3	2	21.74	18.96	21.11	34.77	-13.66
				6	0	20.71	17.93	20.08	34.77	-14.69
	23095	707.5	16QAM	1	0	22.19	19.41	21.56	34.77	-13.21
				1	5	22.22	19.44	21.59	34.77	-13.18
				3	2	21.95	19.17	21.32	34.77	-13.45
				6	0	21.01	18.23	20.38	34.77	-14.39
	23173	715.5	16QAM	1	0	22.26	19.48	21.63	34.77	-13.14
				1	5	22.40	19.62	21.77	34.77	-13
				3	2	21.93	19.15	21.30	34.77	-13.47
				6	0	21.12	18.34	20.49	34.77	-14.28
	23017	699.7	64QAM	1	0	20.85	18.07	20.22	34.77	-14.55
				1	5	20.92	18.14	20.29	34.77	-14.48
				3	2	20.72	17.94	20.09	34.77	-14.68
				6	0	19.61	16.83	18.98	34.77	-15.79
	23095	707.5	64QAM	1	0	21.16	18.38	20.53	34.77	-14.24
				1	5	21.17	18.39	20.54	34.77	-14.23
				3	2	20.89	18.11	20.26	34.77	-14.51
				6	0	19.95	17.17	19.32	34.77	-15.45
	23173	715.5	64QAM	1	0	21.20	18.42	20.57	34.77	-14.2
				1	5	21.39	18.61	20.76	34.77	-14.01
				3	2	20.91	18.13	20.28	34.77	-14.49
				6	0	20.02	17.24	19.39	34.77	-15.38

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	22.65	19.87	22.02	34.77	-12.75
				1	14	23.10	20.32	22.47	34.77	-12.3
				8	4	22.03	19.25	21.40	34.77	-13.37
				15	0	21.86	19.08	21.23	34.77	-13.54
	23095	707.5	QPSK	1	0	22.87	20.09	22.24	34.77	-12.53
				1	14	22.93	20.15	22.30	34.77	-12.47
				8	4	21.92	19.14	21.29	34.77	-13.48
				15	0	21.95	19.17	21.32	34.77	-13.45
	23165	714.5	QPSK	1	0	23.02	20.24	22.39	34.77	-12.38
				1	14	23.04	20.26	22.41	34.77	-12.36
				8	4	21.93	19.15	21.30	34.77	-13.47
				15	0	21.99	19.21	21.36	34.77	-13.41
	23025	700.5	16QAM	1	0	21.88	19.10	21.25	34.77	-13.52
				1	14	22.27	19.49	21.64	34.77	-13.13
				8	4	20.94	18.16	20.31	34.77	-14.46
				15	0	20.81	18.03	20.18	34.77	-14.59
	23095	707.5	16QAM	1	0	22.23	19.45	21.60	34.77	-13.17
				1	14	22.23	19.45	21.60	34.77	-13.17
				8	4	20.92	18.14	20.29	34.77	-14.48
				15	0	21.00	18.22	20.37	34.77	-14.4
	23165	714.5	16QAM	1	0	22.26	19.48	21.63	34.77	-13.14
				1	14	22.34	19.56	21.71	34.77	-13.06
				8	4	20.89	18.11	20.26	34.77	-14.51
				15	0	21.14	18.36	20.51	34.77	-14.26
	23025	700.5	64QAM	1	0	20.84	18.06	20.21	34.77	-14.56
				1	14	21.19	18.41	20.56	34.77	-14.21
				8	4	19.85	17.07	19.22	34.77	-15.55
				15	0	19.80	17.02	19.17	34.77	-15.6
	23095	707.5	64QAM	1	0	21.19	18.41	20.56	34.77	-14.21
				1	14	21.20	18.42	20.57	34.77	-14.2
				8	4	19.91	17.13	19.28	34.77	-15.49
				15	0	19.92	17.14	19.29	34.77	-15.48
	23165	714.5	64QAM	1	0	21.19	18.41	20.56	34.77	-14.21
				1	14	21.31	18.53	20.68	34.77	-14.09
				8	4	19.85	17.07	19.22	34.77	-15.55
				15	0	20.06	17.28	19.43	34.77	-15.34

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.79	20.01	22.16	34.77	-12.61
				1	24	23.19	20.41	<b>22.56</b>	34.77	-12.21
				12	6	22.08	19.30	21.45	34.77	-13.32
				25	0	21.92	19.14	21.29	34.77	-13.48
	23095	707.5	QPSK	1	0	22.99	20.21	22.36	34.77	-12.41
				1	24	23.11	20.33	22.48	34.77	-12.29
				12	6	22.08	19.30	21.45	34.77	-13.32
				25	0	21.99	19.21	21.36	34.77	-13.41
	23155	713.5	QPSK	1	0	23.08	20.30	22.45	34.77	-12.32
				1	24	23.19	20.41	<b>22.56</b>	34.77	-12.21
				12	6	22.07	19.29	21.44	34.77	-13.33
				25	0	22.12	19.34	21.49	34.77	-13.28
	23035	701.5	16QAM	1	0	21.99	19.21	21.36	34.77	-13.41
				1	24	22.42	19.64	21.79	34.77	-12.98
				12	6	21.15	18.37	20.52	34.77	-14.25
				25	0	20.97	18.19	20.34	34.77	-14.43
	23095	707.5	16QAM	1	0	22.30	19.52	21.67	34.77	-13.1
				1	24	22.38	19.60	21.75	34.77	-13.02
				12	6	21.13	18.35	20.50	34.77	-14.27
				25	0	21.13	18.35	20.50	34.77	-14.27
	23155	713.5	16QAM	1	0	22.34	19.56	21.71	34.77	-13.06
				1	24	22.50	19.72	<b>21.87</b>	34.77	-12.9
				12	6	21.09	18.31	20.46	34.77	-14.31
				25	0	21.24	18.46	20.61	34.77	-14.16
	23035	701.5	64QAM	1	0	20.92	18.14	20.29	34.77	-14.48
				1	24	21.42	18.64	20.79	34.77	-13.98
				12	6	20.14	17.36	19.51	34.77	-15.26
				25	0	19.96	17.18	19.33	34.77	-15.44
	23095	707.5	64QAM	1	0	21.25	18.47	20.62	34.77	-14.15
				1	24	21.37	18.59	20.74	34.77	-14.03
				12	6	20.06	17.28	19.43	34.77	-15.34
				25	0	20.10	17.32	19.47	34.77	-15.3
	23155	713.5	64QAM	1	0	21.24	18.46	20.61	34.77	-14.16
				1	24	21.49	18.71	<b>20.86</b>	34.77	-13.91
				12	6	20.02	17.24	19.39	34.77	-15.38
				25	0	20.23	17.45	19.60	34.77	-15.17

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Antenna gain (dBi) -0.63

LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.22	20.44	22.59	34.77	-12.18
				1	49	22.81	20.03	22.18	34.77	-12.59
				25	12	22.10	19.32	21.47	34.77	-13.3
				50	0	22.06	19.28	21.43	34.77	-13.34
	23095	707.5	QPSK	1	0	23.28	20.50	22.65	34.77	-12.12
				1	49	23.01	20.23	22.38	34.77	-12.39
				25	12	22.16	19.38	21.53	34.77	-13.24
				50	0	22.16	19.38	21.53	34.77	-13.24
	23130	711	QPSK	1	0	23.39	20.61	22.76	34.77	-12.01
				1	49	23.14	20.36	22.51	34.77	-12.26
				25	12	22.16	19.38	21.53	34.77	-13.24
				50	0	22.22	19.44	21.59	34.77	-13.18
	23060	704	16QAM	1	0	22.05	19.27	21.42	34.77	-13.35
				1	49	22.51	19.73	21.88	34.77	-12.89
				25	12	21.17	18.39	20.54	34.77	-14.23
				50	0	21.13	18.35	20.50	34.77	-14.27
	23095	707.5	16QAM	1	0	22.35	19.57	21.72	34.77	-13.05
				1	49	22.59	19.81	21.96	34.77	-12.81
				25	12	21.29	18.51	20.66	34.77	-14.11
				50	0	21.21	18.43	20.58	34.77	-14.19
	23130	711	16QAM	1	0	22.39	19.61	21.76	34.77	-13.01
				1	49	22.57	19.79	21.94	34.77	-12.83
				25	12	21.28	18.50	20.65	34.77	-14.12
				50	0	21.29	18.51	20.66	34.77	-14.11
	23060	704	64QAM	1	0	21.00	18.22	20.37	34.77	-14.4
				1	49	21.48	18.70	20.85	34.77	-13.92
				25	12	20.10	17.32	19.47	34.77	-15.3
				50	0	20.04	17.26	19.41	34.77	-15.36
	23095	707.5	64QAM	1	0	21.27	18.49	20.64	34.77	-14.13
				1	49	21.59	18.81	20.96	34.77	-13.81
				25	12	20.21	17.43	19.58	34.77	-15.19
				50	0	20.17	17.39	19.54	34.77	-15.23
	23130	711	64QAM	1	0	21.37	18.59	20.74	34.77	-14.03
				1	49	21.47	18.69	20.84	34.77	-13.93
				25	12	20.26	17.48	19.63	34.77	-15.14
				50	0	20.28	17.50	19.65	34.77	-15.12

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Antenna gain (dBi) 0.01

LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	23.22	21.08	23.23	34.77	-11.54
				1	24	23.54	21.40	23.55	34.77	-11.22
				12	6	22.36	20.22	22.37	34.77	-12.4
				25	0	22.38	20.24	22.39	34.77	-12.38
	23230	782	QPSK	1	0	23.39	21.25	23.40	34.77	-11.37
				1	24	23.67	21.53	23.68	34.77	-11.09
				12	6	22.45	20.31	22.46	34.77	-12.31
				25	0	22.55	20.41	22.56	34.77	-12.21
	23255	784.5	QPSK	1	0	23.59	21.45	23.60	34.77	-11.17
				1	24	23.63	21.49	23.64	34.77	-11.13
				12	6	22.62	20.48	22.63	34.77	-12.14
				25	0	22.63	20.49	22.64	34.77	-12.13
	23205	779.5	16QAM	1	0	22.44	20.30	22.45	34.77	-12.32
				1	24	22.80	20.66	22.81	34.77	-11.96
				12	6	21.50	19.36	21.51	34.77	-13.26
				25	0	21.47	19.33	21.48	34.77	-13.29
	23230	782	16QAM	1	0	22.77	20.63	22.78	34.77	-11.99
				1	24	22.93	20.79	22.94	34.77	-11.83
				12	6	21.53	19.39	21.54	34.77	-13.23
				25	0	21.59	19.45	21.60	34.77	-13.17
	23255	784.5	16QAM	1	0	22.84	20.70	22.85	34.77	-11.92
				1	24	22.99	20.85	23.00	34.77	-11.77
				12	6	21.60	19.46	21.61	34.77	-13.16
				25	0	21.63	19.49	21.64	34.77	-13.13
	23205	779.5	64QAM	1	0	21.38	19.24	21.39	34.77	-13.38
				1	24	21.70	19.56	21.71	34.77	-13.06
				12	6	20.40	18.26	20.41	34.77	-14.36
				25	0	20.39	18.25	20.40	34.77	-14.37
	23230	782	64QAM	1	0	21.76	19.62	21.77	34.77	-13
				1	24	21.89	19.75	21.90	34.77	-12.87
				12	6	20.47	18.33	20.48	34.77	-14.29
				25	0	20.56	18.42	20.57	34.77	-14.2
	23255	784.5	64QAM	1	0	21.77	19.63	21.78	34.77	-12.99
				1	24	21.99	19.85	22.00	34.77	-12.77
				12	6	20.60	18.46	20.61	34.77	-14.16
				25	0	20.63	18.49	20.64	34.77	-14.13

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10	23230	782	QPSK	1	0	23.33	21.19	23.34	34.77	-11.43
				1	49	23.74	21.60	23.75	34.77	-11.02
				25	12	22.62	20.48	22.63	34.77	-12.14
				50	0	22.69	20.55	22.70	34.77	-12.07
	23230	782	16QAM	1	0	22.65	20.51	22.66	34.77	-12.11
				1	49	22.95	20.81	22.96	34.77	-11.81
				25	12	21.76	19.62	21.77	34.77	-13
				50	0	21.76	19.62	21.77	34.77	-13
	23230	782	64QAM	1	0	21.57	19.43	21.58	34.77	-13.19
				1	49	21.86	19.72	21.87	34.77	-12.9
				25	12	20.68	18.54	20.69	34.77	-14.08
				50	0	20.71	18.57	20.72	34.77	-14.05

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Antenna gain (dBi) -0.5

LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	23.57	20.92	23.07	34.77	-11.7
				1	24	23.67	21.02	23.17	34.77	-11.6
				12	6	22.63	19.98	22.13	34.77	-12.64
				25	0	22.64	19.99	22.14	34.77	-12.63
	23330	793	QPSK	1	0	23.69	21.04	23.19	34.77	-11.58
				1	24	23.78	21.13	23.28	34.77	-11.49
				12	6	22.71	20.06	22.21	34.77	-12.56
				25	0	22.72	20.07	22.22	34.77	-12.55
	23355	795.5	QPSK	1	0	23.73	21.08	23.23	34.77	-11.54
				1	24	23.76	21.11	23.26	34.77	-11.51
				12	6	22.77	20.12	22.27	34.77	-12.5
				25	0	22.79	20.14	22.29	34.77	-12.48
	23305	790.5	16QAM	1	0	22.84	20.19	22.34	34.77	-12.43
				1	24	22.86	20.21	22.36	34.77	-12.41
				12	6	21.67	19.02	21.17	34.77	-13.6
				25	0	21.65	19.00	21.15	34.77	-13.62
	23330	793	16QAM	1	0	22.91	20.26	22.41	34.77	-12.36
				1	24	23.00	20.35	22.50	34.77	-12.27
				12	6	21.71	19.06	21.21	34.77	-13.56
				25	0	21.70	19.05	21.20	34.77	-13.57
	23355	795.5	16QAM	1	0	22.90	20.25	22.40	34.77	-12.37
				1	24	22.99	20.34	22.49	34.77	-12.28
				12	6	21.82	19.17	21.32	34.77	-13.45
				25	0	21.78	19.13	21.28	34.77	-13.49
	23305	790.5	64QAM	1	0	21.84	19.19	21.34	34.77	-13.43
				1	24	21.76	19.11	21.26	34.77	-13.51
				12	6	20.67	18.02	20.17	34.77	-14.6
				25	0	20.61	17.96	20.11	34.77	-14.66
	23330	793	64QAM	1	0	21.85	19.20	21.35	34.77	-13.42
				1	24	21.97	19.32	21.47	34.77	-13.3
				12	6	20.70	18.05	20.20	34.77	-14.57
				25	0	20.62	17.97	20.12	34.77	-14.65
	23355	795.5	64QAM	1	0	21.90	19.25	21.40	34.77	-13.37
				1	24	21.93	19.28	21.43	34.77	-13.34
				12	6	20.72	18.07	20.22	34.77	-14.55
				25	0	20.68	18.03	20.18	34.77	-14.59

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Antenna gain (dBi) -0.5

LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	23.63	20.98	23.13	34.77	-11.64
				1	49	23.82	21.17	23.32	34.77	-11.45
				25	12	22.84	20.19	22.34	34.77	-12.43
				50	0	22.78	20.13	22.28	34.77	-12.49
	23330	793	16QAM	1	0	22.92	20.27	22.42	34.77	-12.35
				1	49	22.94	20.29	22.44	34.77	-12.33
				25	12	21.91	19.26	21.41	34.77	-13.36
				50	0	21.88	19.23	21.38	34.77	-13.39
	23330	793	64QAM	1	0	21.56	18.91	21.06	34.77	-13.71
				1	49	21.93	19.28	21.43	34.77	-13.34
				25	12	20.67	18.02	20.17	34.77	-14.6
				50	0	20.73	18.08	20.23	34.77	-14.54

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Antenna gain (dBi) -0.63

LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.98	20.20	22.35	34.77	-12.42
				1	24	23.02	20.24	22.39	34.77	-12.38
				12	6	22.18	19.40	21.55	34.77	-13.22
				25	0	22.17	19.39	21.54	34.77	-13.23
	23790	710	QPSK	1	0	23.03	20.25	22.40	34.77	-12.37
				1	24	23.13	20.35	22.50	34.77	-12.27
				12	6	22.07	19.29	21.44	34.77	-13.33
				25	0	22.14	19.36	21.51	34.77	-13.26
	23825	713.5	QPSK	1	0	23.07	20.29	22.44	34.77	-12.33
				1	24	23.34	20.56	22.71	34.77	-12.06
				12	6	22.20	19.42	21.57	34.77	-13.2
				25	0	22.22	19.44	21.59	34.77	-13.18
	23755	706.5	16QAM	1	0	22.26	19.48	21.63	34.77	-13.14
				1	24	22.37	19.59	21.74	34.77	-13.03
				12	6	21.26	18.48	20.63	34.77	-14.14
				25	0	21.28	18.50	20.65	34.77	-14.12
	23790	710	16QAM	1	0	22.36	19.58	21.73	34.77	-13.04
				1	24	22.41	19.63	21.78	34.77	-12.99
				12	6	21.16	18.38	20.53	34.77	-14.24
				25	0	21.25	18.47	20.62	34.77	-14.15
	23825	713.5	16QAM	1	0	22.37	19.59	21.74	34.77	-13.03
				1	24	22.60	19.82	21.97	34.77	-12.8
				12	6	21.28	18.50	20.65	34.77	-14.12
				25	0	21.30	18.52	20.67	34.77	-14.1
	23755	706.5	64QAM	1	0	21.12	18.34	20.49	34.77	-14.28
				1	24	21.48	18.70	20.85	34.77	-13.92
				12	6	19.99	17.21	19.36	34.77	-15.41
				25	0	20.11	17.33	19.48	34.77	-15.29
	23790	710	64QAM	1	0	21.24	18.46	20.61	34.77	-14.16
				1	24	21.38	18.60	20.75	34.77	-14.02
				12	6	20.18	17.40	19.55	34.77	-15.22
				25	0	20.20	17.42	19.57	34.77	-15.2
	23825	713.5	64QAM	1	0	21.44	18.66	20.81	34.77	-13.96
				1	24	21.43	18.65	20.80	34.77	-13.97
				12	6	20.20	17.42	19.57	34.77	-15.2
				25	0	20.17	17.39	19.54	34.77	-15.23

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Antenna gain (dBi) -0.63

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	23.27	20.49	22.64	34.77	-12.13
				1	49	23.01	20.23	22.38	34.77	-12.39
				25	12	22.03	19.25	21.40	34.77	-13.37
				50	0	22.10	19.32	21.47	34.77	-13.3
	23790	710	QPSK	1	0	23.30	20.52	22.67	34.77	-12.1
				1	49	22.98	20.20	22.35	34.77	-12.42
				25	12	22.08	19.30	21.45	34.77	-13.32
				50	0	22.15	19.37	21.52	34.77	-13.25
	23800	711	QPSK	1	0	23.38	20.60	22.75	34.77	-12.02
				1	49	23.10	20.32	22.47	34.77	-12.3
				25	12	22.13	19.35	21.50	34.77	-13.27
				50	0	22.20	19.42	21.57	34.77	-13.2
	23780	709	16QAM	1	0	22.30	19.52	21.67	34.77	-13.1
				1	49	22.49	19.71	21.86	34.77	-12.91
				25	12	21.14	18.36	20.51	34.77	-14.26
				50	0	21.15	18.37	20.52	34.77	-14.25
	23790	710	16QAM	1	0	22.34	19.56	21.71	34.77	-13.06
				1	49	22.51	19.73	21.88	34.77	-12.89
				25	12	21.21	18.43	20.58	34.77	-14.19
				50	0	21.22	18.44	20.59	34.77	-14.18
	23800	711	16QAM	1	0	22.47	19.69	21.84	34.77	-12.93
				1	49	22.58	19.80	21.95	34.77	-12.82
				25	12	21.25	18.47	20.62	34.77	-14.15
				50	0	21.25	18.47	20.62	34.77	-14.15
	23780	709	64QAM	1	0	21.20	18.42	20.57	34.77	-14.2
				1	49	21.49	18.71	20.86	34.77	-13.91
				25	12	20.04	17.26	19.41	34.77	-15.36
				50	0	20.11	17.33	19.48	34.77	-15.29
	23790	710	64QAM	1	0	21.24	18.46	20.61	34.77	-14.16
				1	49	21.42	18.64	20.79	34.77	-13.98
				25	12	20.19	17.41	19.56	34.77	-15.21
				50	0	20.20	17.42	19.57	34.77	-15.2
	23800	711	64QAM	1	0	21.47	18.69	20.84	34.77	-13.93
				1	49	21.51	18.73	20.88	34.77	-13.89
				25	12	20.22	17.44	19.59	34.77	-15.18
				50	0	20.17	17.39	19.54	34.77	-15.23

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Antenna gain (dBi) 0.97

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	23.14	24.11	33	-8.89
				1	5	23.21	24.18	33	-8.82
				3	2	23.09	24.06	33	-8.94
				6	0	22.10	23.07	33	-9.93
	26365	1882.5	QPSK	1	0	23.45	24.42	33	-8.58
				1	5	23.47	24.44	33	-8.56
				3	2	23.39	24.36	33	-8.64
				6	0	22.36	23.33	33	-9.67
	26683	1914.3	QPSK	1	0	23.23	24.20	33	-8.8
				1	5	23.21	24.18	33	-8.82
				3	2	23.09	24.06	33	-8.94
				6	0	22.10	23.07	33	-9.93
	26047	1850.7	16QAM	1	0	22.45	23.42	33	-9.58
				1	5	22.55	23.52	33	-9.48
				3	2	22.16	23.13	33	-9.87
				6	0	21.10	22.07	33	-10.93
	26365	1882.5	16QAM	1	0	22.75	23.72	33	-9.28
				1	5	22.65	23.62	33	-9.38
				3	2	22.45	23.42	33	-9.58
				6	0	21.41	22.38	33	-10.62
	26683	1914.3	16QAM	1	0	22.44	23.41	33	-9.59
				1	5	22.45	23.42	33	-9.58
				3	2	22.10	23.07	33	-9.93
				6	0	21.07	22.04	33	-10.96
	26047	1850.7	64QAM	1	0	21.55	22.52	33	-10.48
				1	5	21.51	22.48	33	-10.52
				3	2	21.43	22.40	33	-10.6
				6	0	20.37	21.34	33	-11.66
	26365	1882.5	64QAM	1	0	21.34	22.31	33	-10.69
				1	5	21.41	22.38	33	-10.62
				3	2	21.50	22.47	33	-10.53
				6	0	20.48	21.45	33	-11.55
	26683	1914.3	64QAM	1	0	21.30	22.27	33	-10.73
				1	5	21.51	22.48	33	-10.52
				3	2	21.31	22.28	33	-10.72
				6	0	20.36	21.33	33	-11.67

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Antenna gain (dBi) 0.97

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26055	1851.5	QPSK	1	0	23.10	24.07	33	-8.93
				1	14	23.24	24.21	33	-8.79
				8	4	22.09	23.06	33	-9.94
				15	0	22.11	23.08	33	-9.92
	26365	1882.5	QPSK	1	0	23.37	24.34	33	-8.66
				1	14	23.46	24.43	33	-8.57
				8	4	22.35	23.32	33	-9.68
				15	0	22.36	23.33	33	-9.67
	26675	1913.5	QPSK	1	0	23.04	24.01	33	-8.99
				1	14	23.11	24.08	33	-8.92
				8	4	22.08	23.05	33	-9.95
				15	0	22.12	23.09	33	-9.91
	26055	1851.5	16QAM	1	0	22.47	23.44	33	-9.56
				1	14	22.52	23.49	33	-9.51
				8	4	21.07	22.04	33	-10.96
				15	0	21.08	22.05	33	-10.95
	26365	1882.5	16QAM	1	0	22.55	23.52	33	-9.48
				1	14	22.70	23.67	33	-9.33
				8	4	21.33	22.30	33	-10.7
				15	0	21.27	22.24	33	-10.76
	26675	1913.5	16QAM	1	0	22.19	23.16	33	-9.84
				1	14	22.32	23.29	33	-9.71
				8	4	21.04	22.01	33	-10.99
				15	0	21.03	22.00	33	-11
	26055	1851.5	64QAM	1	0	21.60	22.57	33	-10.43
				1	14	21.48	22.45	33	-10.55
				8	4	20.38	21.35	33	-11.65
				15	0	20.41	21.38	33	-11.62
	26365	1882.5	64QAM	1	0	21.42	22.39	33	-10.61
				1	14	21.36	22.33	33	-10.67
				8	4	20.51	21.48	33	-11.52
				15	0	20.48	21.45	33	-11.55
	26675	1913.5	64QAM	1	0	21.34	22.31	33	-10.69
				1	14	21.52	22.49	33	-10.51
				8	4	20.28	21.25	33	-11.75
				15	0	20.29	21.26	33	-11.74

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Antenna gain (dBi) 0.97

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	23.22	24.19	33	-8.81
				1	24	23.36	24.33	33	-8.67
				12	6	22.29	23.26	33	-9.74
				25	0	22.29	23.26	33	-9.74
	26365	1882.5	QPSK	1	0	23.48	24.45	33	-8.55
				1	24	23.51	24.48	33	-8.52
				12	6	22.46	23.43	33	-9.57
				25	0	22.46	23.43	33	-9.57
	26665	1912.5	QPSK	1	0	23.08	24.05	33	-8.95
				1	24	23.28	24.25	33	-8.75
				12	6	22.15	23.12	33	-9.88
				25	0	22.18	23.15	33	-9.85
	26065	1852.5	16QAM	1	0	22.51	23.48	33	-9.52
				1	24	22.66	23.63	33	-9.37
				12	6	21.31	22.28	33	-10.72
				25	0	21.30	22.27	33	-10.73
	26365	1882.5	16QAM	1	0	22.85	23.82	33	-9.18
				1	24	22.73	23.70	33	-9.3
				12	6	21.47	22.44	33	-10.56
				25	0	21.45	22.42	33	-10.58
	26665	1912.5	16QAM	1	0	22.31	23.28	33	-9.72
				1	24	22.46	23.43	33	-9.57
				12	6	21.12	22.09	33	-10.91
				25	0	21.15	22.12	33	-10.88
	26065	1852.5	64QAM	1	0	21.53	22.50	33	-10.5
				1	24	21.43	22.40	33	-10.6
				12	6	20.44	21.41	33	-11.59
				25	0	20.40	21.37	33	-11.63
	26365	1882.5	64QAM	1	0	21.40	22.37	33	-10.63
				1	24	21.34	22.31	33	-10.69
				12	6	20.48	21.45	33	-11.55
				25	0	20.48	21.45	33	-11.55
	26665	1912.5	64QAM	1	0	21.28	22.25	33	-10.75
				1	24	21.55	22.52	33	-10.48
				12	6	20.28	21.25	33	-11.75
				25	0	20.37	21.34	33	-11.66

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Antenna gain (dBi) 0.97

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	23.22	24.19	33	-8.81
				1	49	23.44	24.41	33	-8.59
				25	12	22.49	23.46	33	-9.54
				50	0	22.46	23.43	33	-9.57
	26365	1882.5	QPSK	1	0	23.40	24.37	33	-8.63
				1	49	23.55	24.52	33	-8.48
				25	12	22.61	23.58	33	-9.42
				50	0	22.59	23.56	33	-9.44
	26640	1910	QPSK	1	0	23.39	24.36	33	-8.64
				1	49	23.30	24.27	33	-8.73
				25	12	22.30	23.27	33	-9.73
				50	0	22.36	23.33	33	-9.67
	26090	1855	16QAM	1	0	22.56	23.53	33	-9.47
				1	49	22.70	23.67	33	-9.33
				25	12	21.59	22.56	33	-10.44
				50	0	21.54	22.51	33	-10.49
	26365	1882.5	16QAM	1	0	22.76	23.73	33	-9.27
				1	49	22.73	23.70	33	-9.3
				25	12	21.68	22.65	33	-10.35
				50	0	21.63	22.60	33	-10.4
	26640	1910	16QAM	1	0	22.71	23.68	33	-9.32
				1	49	22.55	23.52	33	-9.48
				25	12	21.39	22.36	33	-10.64
				50	0	21.42	22.39	33	-10.61
	26090	1855	64QAM	1	0	21.59	22.56	33	-10.44
				1	49	21.48	22.45	33	-10.55
				25	12	20.44	21.41	33	-11.59
				50	0	20.37	21.34	33	-11.66
	26365	1882.5	64QAM	1	0	21.37	22.34	33	-10.66
				1	49	21.35	22.32	33	-10.68
				25	12	20.53	21.50	33	-11.5
				50	0	20.50	21.47	33	-11.53
	26640	1910	64QAM	1	0	21.31	22.28	33	-10.72
				1	49	21.53	22.50	33	-10.5
				25	12	20.35	21.32	33	-11.68
				50	0	20.35	21.32	33	-11.68

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Antenna gain (dBi) 0.97

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	23.22	24.19	33	-8.81
				1	74	23.24	24.21	33	-8.79
				36	18	22.50	23.47	33	-9.53
				75	0	22.47	23.44	33	-9.56
	26365	1882.5	QPSK	1	0	23.22	24.19	33	-8.81
				1	74	23.33	24.30	33	-8.7
				36	18	22.57	23.54	33	-9.46
				75	0	22.54	23.51	33	-9.49
	26615	1907.5	QPSK	1	0	23.26	24.23	33	-8.77
				1	74	23.29	24.26	33	-8.74
				36	18	22.42	23.39	33	-9.61
				75	0	22.42	23.39	33	-9.61
	26115	1857.5	16QAM	1	0	22.51	23.48	33	-9.52
				1	74	22.64	23.61	33	-9.39
				36	18	21.59	22.56	33	-10.44
				75	0	21.54	22.51	33	-10.49
	26365	1882.5	16QAM	1	0	22.60	23.57	33	-9.43
				1	74	22.63	23.60	33	-9.4
				36	18	21.63	22.60	33	-10.4
				75	0	21.59	22.56	33	-10.44
	26615	1907.5	16QAM	1	0	22.57	23.54	33	-9.46
				1	74	22.56	23.53	33	-9.47
				36	18	21.47	22.44	33	-10.56
				75	0	21.44	22.41	33	-10.59
	26115	1857.5	64QAM	1	0	21.58	22.55	33	-10.45
				1	74	21.45	22.42	33	-10.58
				36	18	20.43	21.40	33	-11.6
				75	0	20.35	21.32	33	-11.68
	26365	1882.5	64QAM	1	0	21.35	22.32	33	-10.68
				1	74	21.43	22.40	33	-10.6
				36	18	20.54	21.51	33	-11.49
				75	0	20.46	21.43	33	-11.57
	26615	1907.5	64QAM	1	0	21.31	22.28	33	-10.72
				1	74	21.48	22.45	33	-10.55
				36	18	20.33	21.30	33	-11.7
				75	0	20.31	21.28	33	-11.72

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Antenna gain (dBi) 0.97

LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	23.18	24.15	33	-8.85
				1	99	23.26	24.23	33	-8.77
				50	25	22.40	23.37	33	-9.63
				100	0	22.41	23.38	33	-9.62
	26365	1882.5	QPSK	1	0	23.26	24.23	33	-8.77
				1	99	23.20	24.17	33	-8.83
				50	25	22.50	23.47	33	-9.53
				100	0	22.48	23.45	33	-9.55
	26590	1905	QPSK	1	0	23.11	24.08	33	-8.92
				1	99	23.29	24.26	33	-8.74
				50	25	22.39	23.36	33	-9.64
				100	0	22.41	23.38	33	-9.62
	26140	1860	16QAM	1	0	22.63	23.60	33	-9.4
				1	99	22.56	23.53	33	-9.47
				50	25	21.50	22.47	33	-10.53
				100	0	21.48	22.45	33	-10.55
	26365	1882.5	16QAM	1	0	22.50	23.47	33	-9.53
				1	99	22.52	23.49	33	-9.51
				50	25	21.54	22.51	33	-10.49
				100	0	21.56	22.53	33	-10.47
	26590	1905	16QAM	1	0	22.45	23.42	33	-9.58
				1	99	22.60	23.57	33	-9.43
				50	25	21.43	22.40	33	-10.6
				100	0	21.43	22.40	33	-10.6
	26140	1860	64QAM	1	0	21.63	22.60	33	-10.4
				1	99	21.53	22.50	33	-10.5
				50	25	20.45	21.42	33	-11.58
				100	0	20.43	21.40	33	-11.6
	26365	1882.5	64QAM	1	0	21.43	22.40	33	-10.6
				1	99	21.43	22.40	33	-10.6
				50	25	20.54	21.51	33	-11.49
				100	0	20.53	21.50	33	-11.5
	26590	1905	64QAM	1	0	21.38	22.35	33	-10.65
				1	99	21.55	22.52	33	-10.48
				50	25	20.37	21.34	33	-11.66
				100	0	20.37	21.34	33	-11.66

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.50	19.58	21.73	38.45	-16.72
				1	5	23.52	19.60	21.75	38.45	-16.7
				3	2	23.47	19.55	21.70	38.45	-16.75
				6	0	22.49	18.57	20.72	38.45	-17.73
	26915	836.5	QPSK	1	0	23.46	19.54	21.69	38.45	-16.76
				1	5	23.47	19.55	21.70	38.45	-16.75
				3	2	23.45	19.53	21.68	38.45	-16.77
				6	0	22.48	18.56	20.71	38.45	-17.74
	27033	848.3	QPSK	1	0	23.55	19.63	21.78	38.45	-16.67
				1	5	23.49	19.57	21.72	38.45	-16.73
				3	2	23.51	19.59	21.74	38.45	-16.71
				6	0	22.56	18.64	20.79	38.45	-17.66
	26797	824.7	16QAM	1	0	22.76	18.84	20.99	38.45	-17.46
				1	5	22.80	18.88	21.03	38.45	-17.42
				3	2	22.56	18.64	20.79	38.45	-17.66
				6	0	21.54	17.62	19.77	38.45	-18.68
	26915	836.5	16QAM	1	0	22.78	18.86	21.01	38.45	-17.44
				1	5	22.81	18.89	21.04	38.45	-17.41
				3	2	22.54	18.62	20.77	38.45	-17.68
				6	0	21.57	17.65	19.80	38.45	-18.65
	27033	848.3	16QAM	1	0	22.74	18.82	20.97	38.45	-17.48
				1	5	22.74	18.82	20.97	38.45	-17.48
				3	2	22.56	18.64	20.79	38.45	-17.66
				6	0	21.52	17.60	19.75	38.45	-18.7
	26797	824.7	64QAM	1	0	21.83	17.91	20.06	38.45	-18.39
				1	5	21.71	17.79	19.94	38.45	-18.51
				3	2	21.50	17.58	19.73	38.45	-18.72
				6	0	20.45	16.53	18.68	38.45	-19.77
	26915	836.5	64QAM	1	0	21.57	17.65	19.80	38.45	-18.65
				1	5	21.75	17.83	19.98	38.45	-18.47
				3	2	21.41	17.49	19.64	38.45	-18.81
				6	0	20.44	16.52	18.67	38.45	-19.78
	27033	848.3	64QAM	1	0	21.64	17.72	19.87	38.45	-18.58
				1	5	21.75	17.83	19.98	38.45	-18.47
				3	2	21.39	17.47	19.62	38.45	-18.83
				6	0	20.48	16.56	18.71	38.45	-19.74

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.13	19.21	21.36	38.45	-17.09
				1	14	23.21	19.29	21.44	38.45	-17.01
				8	4	22.18	18.26	20.41	38.45	-18.04
				15	0	22.07	18.15	20.30	38.45	-18.15
	26915	836.5	QPSK	1	0	23.14	19.22	21.37	38.45	-17.08
				1	14	23.42	19.50	21.65	38.45	-16.8
				8	4	22.03	18.11	20.26	38.45	-18.19
				15	0	22.26	18.34	20.49	38.45	-17.96
	27025	847.5	QPSK	1	0	23.20	19.28	21.43	38.45	-17.02
				1	14	23.36	19.44	21.59	38.45	-16.86
				8	4	22.07	18.15	20.30	38.45	-18.15
				15	0	22.16	18.24	20.39	38.45	-18.06
	26805	825.5	16QAM	1	0	22.63	18.71	20.86	38.45	-17.59
				1	14	22.39	18.47	20.62	38.45	-17.83
				8	4	21.31	17.39	19.54	38.45	-18.91
				15	0	21.37	17.45	19.60	38.45	-18.85
	26915	836.5	16QAM	1	0	22.41	18.49	20.64	38.45	-17.81
				1	14	22.54	18.62	20.77	38.45	-17.68
				8	4	21.28	17.36	19.51	38.45	-18.94
				15	0	21.18	17.26	19.41	38.45	-19.04
	27025	847.5	16QAM	1	0	22.48	18.56	20.71	38.45	-17.74
				1	14	22.43	18.51	20.66	38.45	-17.79
				8	4	21.27	17.35	19.50	38.45	-18.95
				15	0	21.02	17.10	19.25	38.45	-19.2
	26805	825.5	64QAM	1	0	21.82	17.90	20.05	38.45	-18.4
				1	14	21.63	17.71	19.86	38.45	-18.59
				8	4	20.49	16.57	18.72	38.45	-19.73
				15	0	20.48	16.56	18.71	38.45	-19.74
	26915	836.5	64QAM	1	0	21.55	17.63	19.78	38.45	-18.67
				1	14	21.74	17.82	19.97	38.45	-18.48
				8	4	20.41	16.49	18.64	38.45	-19.81
				15	0	20.46	16.54	18.69	38.45	-19.76
	27025	847.5	64QAM	1	0	21.71	17.79	19.94	38.45	-18.51
				1	14	21.72	17.80	19.95	38.45	-18.5
				8	4	20.37	16.45	18.60	38.45	-19.85
				15	0	20.43	16.51	18.66	38.45	-19.79

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.19	19.27	21.42	38.45	-17.03
				1	24	23.31	19.39	21.54	38.45	-16.91
				12	6	22.24	18.32	20.47	38.45	-17.98
				25	0	22.27	18.35	20.50	38.45	-17.95
	26915	836.5	QPSK	1	0	23.24	19.32	21.47	38.45	-16.98
				1	24	23.47	19.55	21.70	38.45	-16.75
				12	6	22.19	18.27	20.42	38.45	-18.03
				25	0	22.32	18.40	20.55	38.45	-17.9
	27015	846.5	QPSK	1	0	23.30	19.38	21.53	38.45	-16.92
				1	24	23.53	19.61	21.76	38.45	-16.69
				12	6	22.09	18.17	20.32	38.45	-18.13
				25	0	22.26	18.34	20.49	38.45	-17.96
	26815	826.5	16QAM	1	0	22.80	18.88	21.03	38.45	-17.42
				1	24	22.48	18.56	20.71	38.45	-17.74
				12	6	21.43	17.51	19.66	38.45	-18.79
				25	0	21.42	17.50	19.65	38.45	-18.8
	26915	836.5	16QAM	1	0	22.62	18.70	20.85	38.45	-17.6
				1	24	22.59	18.67	20.82	38.45	-17.63
				12	6	21.39	17.47	19.62	38.45	-18.83
				25	0	21.38	17.46	19.61	38.45	-18.84
	27015	846.5	16QAM	1	0	22.50	18.58	20.73	38.45	-17.72
				1	24	22.62	18.70	20.85	38.45	-17.6
				12	6	21.30	17.38	19.53	38.45	-18.92
				25	0	21.23	17.31	19.46	38.45	-18.99
	26815	826.5	64QAM	1	0	21.75	17.83	19.98	38.45	-18.47
				1	24	21.65	17.73	19.88	38.45	-18.57
				12	6	20.47	16.55	18.70	38.45	-19.75
				25	0	20.45	16.53	18.68	38.45	-19.77
	26915	836.5	64QAM	1	0	21.62	17.70	19.85	38.45	-18.6
				1	24	21.77	17.85	20.00	38.45	-18.45
				12	6	20.37	16.45	18.60	38.45	-19.85
				25	0	20.45	16.53	18.68	38.45	-19.77
	27015	846.5	64QAM	1	0	21.68	17.76	19.91	38.45	-18.54
				1	24	21.76	17.84	19.99	38.45	-18.46
				12	6	20.35	16.43	18.58	38.45	-19.87
				25	0	20.49	16.57	18.72	38.45	-19.73

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.38	19.46	21.61	38.45	-16.84
				1	49	23.39	19.47	21.62	38.45	-16.83
				25	12	22.33	18.41	20.56	38.45	-17.89
				50	0	22.44	18.52	20.67	38.45	-17.78
	26915	836.5	QPSK	1	0	23.32	19.40	21.55	38.45	-16.9
				1	49	23.49	19.57	21.72	38.45	-16.73
				25	12	22.30	18.38	20.53	38.45	-17.92
				50	0	22.34	18.42	20.57	38.45	-17.88
	26990	844	QPSK	1	0	23.43	19.51	21.66	38.45	-16.79
				1	49	23.60	19.68	21.83	38.45	-16.62
				25	12	22.28	18.36	20.51	38.45	-17.94
				50	0	22.37	18.45	20.60	38.45	-17.85
	26840	829	16QAM	1	0	22.86	18.94	21.09	38.45	-17.36
				1	49	22.61	18.69	20.84	38.45	-17.61
				25	12	21.54	17.62	19.77	38.45	-18.68
				50	0	21.44	17.52	19.67	38.45	-18.78
	26915	836.5	16QAM	1	0	22.65	18.73	20.88	38.45	-17.57
				1	49	22.77	18.85	21.00	38.45	-17.45
				25	12	21.50	17.58	19.73	38.45	-18.72
				50	0	21.45	17.53	19.68	38.45	-18.77
	26990	844	16QAM	1	0	22.67	18.75	20.90	38.45	-17.55
				1	49	22.66	18.74	20.89	38.45	-17.56
				25	12	21.48	17.56	19.71	38.45	-18.74
				50	0	21.36	17.44	19.59	38.45	-18.86
	26840	829	64QAM	1	0	21.77	17.85	20.00	38.45	-18.45
				1	49	21.64	17.72	19.87	38.45	-18.58
				25	12	20.48	16.56	18.71	38.45	-19.74
				50	0	20.43	16.51	18.66	38.45	-19.79
	26915	836.5	64QAM	1	0	21.54	17.62	19.77	38.45	-18.68
				1	49	21.70	17.78	19.93	38.45	-18.52
				25	12	20.45	16.53	18.68	38.45	-19.77
				50	0	20.43	16.51	18.66	38.45	-19.79
	26990	844	64QAM	1	0	21.67	17.75	19.90	38.45	-18.55
				1	49	21.71	17.79	19.94	38.45	-18.51
				25	12	20.39	16.47	18.62	38.45	-19.83
				50	0	20.50	16.58	18.73	38.45	-19.72

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Antenna gain (dBi) -1.77

LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	23.47	19.55	21.70	38.45	-16.75
				1	74	23.51	19.59	21.74	38.45	-16.71
				36	18	22.50	18.58	20.73	38.45	-17.72
				75	0	22.53	18.61	20.76	38.45	-17.69
	26915	836.5	QPSK	1	0	23.52	19.60	21.75	38.45	-16.7
				1	74	23.43	19.51	21.66	38.45	-16.79
				36	18	22.47	18.55	20.70	38.45	-17.75
				75	0	22.52	18.60	20.75	38.45	-17.7
	26965	841.5	QPSK	1	0	23.64	19.72	21.87	38.45	-16.58
				1	74	23.50	19.58	21.73	38.45	-16.72
				36	18	22.44	18.52	20.67	38.45	-17.78
				75	0	22.54	18.62	20.77	38.45	-17.68
	26865	831.5	16QAM	1	0	22.88	18.96	21.11	38.45	-17.34
				1	74	22.78	18.86	21.01	38.45	-17.44
				36	18	21.57	17.65	19.80	38.45	-18.65
				75	0	21.56	17.64	19.79	38.45	-18.66
	26915	836.5	16QAM	1	0	22.68	18.76	20.91	38.45	-17.54
				1	74	22.80	18.88	21.03	38.45	-17.42
				36	18	21.55	17.63	19.78	38.45	-18.67
				75	0	21.55	17.63	19.78	38.45	-18.67
	26965	841.5	16QAM	1	0	22.77	18.85	21.00	38.45	-17.45
				1	74	22.84	18.92	21.07	38.45	-17.38
				36	18	21.50	17.58	19.73	38.45	-18.72
				75	0	21.55	17.63	19.78	38.45	-18.67
	26865	831.5	64QAM	1	0	21.83	17.91	20.06	38.45	-18.39
				1	74	21.71	17.79	19.94	38.45	-18.51
				36	18	20.53	16.61	18.76	38.45	-19.69
				75	0	20.48	16.56	18.71	38.45	-19.74
	26915	836.5	64QAM	1	0	21.62	17.70	19.85	38.45	-18.6
				1	74	21.78	17.86	20.01	38.45	-18.44
				36	18	20.46	16.54	18.69	38.45	-19.76
				75	0	20.46	16.54	18.69	38.45	-19.76
	26965	841.5	64QAM	1	0	21.73	17.81	19.96	38.45	-18.49
				1	74	21.79	17.87	20.02	38.45	-18.43
				36	18	20.44	16.52	18.67	38.45	-19.78
				75	0	20.51	16.59	18.74	38.45	-19.71

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.29	19.35	21.50	50	-28.5
				1	5	23.35	19.41	21.56	50	-28.44
				3	2	23.65	19.71	21.86	50	-28.14
				6	0	22.61	18.67	20.82	50	-29.18
	26740	819	QPSK	1	0	23.36	19.42	21.57	50	-28.43
				1	5	23.27	19.33	21.48	50	-28.52
				3	2	23.59	19.65	21.80	50	-28.2
				6	0	22.54	18.60	20.75	50	-29.25
	26783	823.3	QPSK	1	0	23.56	19.62	21.77	50	-28.23
				1	5	23.61	19.67	21.82	50	-28.18
				3	2	23.31	19.37	21.52	50	-28.48
				6	0	22.39	18.45	20.60	50	-29.4
	26697	814.7	16QAM	1	0	22.92	18.98	21.13	50	-28.87
				1	5	23.03	19.09	21.24	50	-28.76
				3	2	22.75	18.81	20.96	50	-29.04
				6	0	21.35	17.41	19.56	50	-30.44
	26740	819	16QAM	1	0	23.03	19.09	21.24	50	-28.76
				1	5	22.67	18.73	20.88	50	-29.12
				3	2	22.47	18.53	20.68	50	-29.32
				6	0	21.37	17.43	19.58	50	-30.42
	26783	823.3	16QAM	1	0	22.66	18.72	20.87	50	-29.13
				1	5	22.86	18.92	21.07	50	-28.93
				3	2	22.42	18.48	20.63	50	-29.37
				6	0	21.62	17.68	19.83	50	-30.17
	26697	814.7	64QAM	1	0	21.75	17.81	19.96	50	-30.04
				1	5	21.79	17.85	20.00	50	-30
				3	2	21.52	17.58	19.73	50	-30.27
				6	0	20.56	16.62	18.77	50	-31.23
	26740	819	64QAM	1	0	21.61	17.67	19.82	50	-30.18
				1	5	21.87	17.93	20.08	50	-29.92
				3	2	21.42	17.48	19.63	50	-30.37
				6	0	20.30	16.36	18.51	50	-31.49
	26783	823.3	64QAM	1	0	21.58	17.64	19.79	50	-30.21
				1	5	21.99	18.05	20.20	50	-29.8
				3	2	21.29	17.35	19.50	50	-30.5
				6	0	20.33	16.39	18.54	50	-31.46

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	22.93	18.99	21.14	50	-28.86
				1	14	23.10	19.16	21.31	50	-28.69
				8	4	22.32	18.38	20.53	50	-29.47
				15	0	21.86	17.92	20.07	50	-29.93
	26740	819	QPSK	1	0	23.39	19.45	21.60	50	-28.4
				1	14	23.25	19.31	21.46	50	-28.54
				8	4	21.96	18.02	20.17	50	-29.83
				15	0	22.44	18.50	20.65	50	-29.35
	26775	822.5	QPSK	1	0	22.99	19.05	21.20	50	-28.8
				1	14	23.33	19.39	21.54	50	-28.46
				8	4	21.89	17.95	20.10	50	-29.9
				15	0	22.26	18.32	20.47	50	-29.53
	26705	815.5	16QAM	1	0	22.80	18.86	21.01	50	-28.99
				1	14	22.25	18.31	20.46	50	-29.54
				8	4	21.37	17.43	19.58	50	-30.42
				15	0	21.23	17.29	19.44	50	-30.56
	26740	819	16QAM	1	0	22.56	18.62	20.77	50	-29.23
				1	14	22.47	18.53	20.68	50	-29.32
				8	4	21.48	17.54	19.69	50	-30.31
				15	0	21.25	17.31	19.46	50	-30.54
	26775	822.5	16QAM	1	0	22.38	18.44	20.59	50	-29.41
				1	14	22.51	18.57	20.72	50	-29.28
				8	4	21.36	17.42	19.57	50	-30.43
				15	0	20.87	16.93	19.08	50	-30.92
	26705	815.5	64QAM	1	0	21.59	17.65	19.80	50	-30.2
				1	14	21.77	17.83	19.98	50	-30.02
				8	4	20.65	16.71	18.86	50	-31.14
				15	0	20.58	16.64	18.79	50	-31.21
	26740	819	64QAM	1	0	21.41	17.47	19.62	50	-30.38
				1	14	21.66	17.72	19.87	50	-30.13
				8	4	20.19	16.25	18.40	50	-31.6
				15	0	20.33	16.39	18.54	50	-31.46
	26775	822.5	64QAM	1	0	21.73	17.79	19.94	50	-30.06
				1	14	21.81	17.87	20.02	50	-29.98
				8	4	20.40	16.46	18.61	50	-31.39
				15	0	20.36	16.42	18.57	50	-31.43

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	23.33	19.39	21.54	50	-28.46
				1	24	23.40	19.46	21.61	50	-28.39
				12	6	22.14	18.20	20.35	50	-29.65
				25	0	22.49	18.55	20.70	50	-29.3
	26740	819	QPSK	1	0	23.25	19.31	21.46	50	-28.54
				1	24	23.72	19.78	21.93	50	-28.07
				12	6	22.10	18.16	20.31	50	-29.69
				25	0	22.43	18.49	20.64	50	-29.36
	26765	821.5	QPSK	1	0	23.52	19.58	21.73	50	-28.27
				1	24	23.54	19.60	21.75	50	-28.25
				12	6	21.93	17.99	20.14	50	-29.86
				25	0	22.19	18.25	20.40	50	-29.6
	26715	816.5	16QAM	1	0	22.75	18.81	20.96	50	-29.04
				1	24	22.70	18.76	20.91	50	-29.09
				12	6	21.25	17.31	19.46	50	-30.54
				25	0	21.35	17.41	19.56	50	-30.44
	26740	819	16QAM	1	0	22.87	18.93	21.08	50	-28.92
				1	24	22.52	18.58	20.73	50	-29.27
				12	6	21.15	17.21	19.36	50	-30.64
				25	0	21.34	17.40	19.55	50	-30.45
	26765	821.5	16QAM	1	0	22.61	18.67	20.82	50	-29.18
				1	24	22.69	18.75	20.90	50	-29.1
				12	6	21.19	17.25	19.40	50	-30.6
				25	0	21.22	17.28	19.43	50	-30.57
	26715	816.5	64QAM	1	0	21.75	17.81	19.96	50	-30.04
				1	24	21.49	17.55	19.70	50	-30.3
				12	6	20.66	16.72	18.87	50	-31.13
				25	0	20.44	16.50	18.65	50	-31.35
	26740	819	64QAM	1	0	21.78	17.84	19.99	50	-30.01
				1	24	21.79	17.85	20.00	50	-30
				12	6	20.30	16.36	18.51	50	-31.49
				25	0	20.33	16.39	18.54	50	-31.46
	26765	821.5	64QAM	1	0	21.64	17.70	19.85	50	-30.15
				1	24	21.63	17.69	19.84	50	-30.16
				12	6	20.36	16.42	18.57	50	-31.43
				25	0	20.58	16.64	18.79	50	-31.21

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Antenna gain (dBi) -1.79

Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	23.35	19.41	21.56	50	-28.44
				1	49	23.59	19.65	21.80	50	-28.2
				25	12	22.22	18.28	20.43	50	-29.57
				50	0	22.23	18.29	20.44	50	-29.56
	26740	819	16QAM	1	0	22.62	18.68	20.83	50	-29.17
				1	49	22.76	18.82	20.97	50	-29.03
				25	12	21.60	17.66	19.81	50	-30.19
				50	0	21.50	17.56	19.71	50	-30.29
	26740	819	64QAM	1	0	20.36	16.42	18.57	50	-31.43
				1	49	21.67	17.73	19.88	50	-30.12
				25	12	20.33	16.39	18.54	50	-31.46
				50	0	20.63	16.69	18.84	50	-31.16

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Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	27685	2307.5	QPSK	1	0	19.91	23.28	24	-0.72
				1	24	19.80	23.17	24	-0.83
				12	6	18.57	21.94	24	-2.06
				25	0	18.65	22.02	24	-1.98
	27710	2310	QPSK	1	0	19.87	23.24	24	-0.76
				1	24	19.76	23.13	24	-0.87
				12	6	18.66	22.03	24	-1.97
				25	0	18.73	22.10	24	-1.9
	27735	2312.5	QPSK	1	0	19.90	23.27	24	-0.73
				1	24	19.93	23.30	24	-0.7
				12	6	18.55	21.92	24	-2.08
				25	0	18.60	21.97	24	-2.03
	27685	2307.5	16QAM	1	0	18.99	22.36	24	-1.64
				1	24	18.73	22.10	24	-1.9
				12	6	17.65	21.02	24	-2.98
				25	0	17.68	21.05	24	-2.95
	27710	2310	16QAM	1	0	18.84	22.21	24	-1.79
				1	24	18.72	22.09	24	-1.91
				12	6	17.75	21.12	24	-2.88
				25	0	17.72	21.09	24	-2.91
	27735	2312.5	16QAM	1	0	18.94	22.31	24	-1.69
				1	24	18.82	22.19	24	-1.81
				12	6	17.60	20.97	24	-3.03
				25	0	17.62	20.99	24	-3.01
	27685	2307.5	64QAM	1	0	17.91	21.28	24	-2.72
				1	24	17.64	21.01	24	-2.99
				12	6	16.56	19.93	24	-4.07
				25	0	16.63	20.00	24	-4
	27710	2310	64QAM	1	0	17.83	21.20	24	-2.8
				1	24	17.71	21.08	24	-2.92
				12	6	16.69	20.06	24	-3.94
				25	0	16.62	19.99	24	-4.01
	27735	2312.5	64QAM	1	0	17.89	21.26	24	-2.74
				1	24	17.82	21.19	24	-2.81
				12	6	16.54	19.91	24	-4.09
				25	0	16.57	19.94	24	-4.06

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Antenna gain (dBi) 3.37

LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	27710	2310	QPSK	1	0	19.98	23.35	24	-0.65
				1	49	19.87	23.24	24	-0.76
				25	12	18.73	22.10	24	-1.9
				50	0	18.83	22.20	24	-1.8
	27710	2310	16QAM	1	0	18.98	22.35	24	-1.65
				1	49	18.90	22.27	24	-1.73
				25	12	17.39	20.76	24	-3.24
				50	0	17.43	20.80	24	-3.2
	27710	2310	64QAM	1	0	17.91	21.28	24	-2.72
				1	49	17.98	21.35	24	-2.65
				25	12	16.61	19.98	24	-4.02
				50	0	16.43	19.80	24	-4.2

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	37775	2572.5	QPSK	1	0	23.58	26.54	33	-6.46
				1	24	23.63	26.59	33	-6.41
				12	6	22.60	25.56	33	-7.44
				25	0	22.48	25.44	33	-7.56
	38000	2595	QPSK	1	0	23.36	26.32	33	-6.68
				1	24	23.74	26.70	33	-6.3
				12	6	22.41	25.37	33	-7.63
				25	0	22.56	25.52	33	-7.48
	38225	2617.5	QPSK	1	0	23.48	26.44	33	-6.56
				1	24	23.64	26.60	33	-6.4
				12	6	22.56	25.52	33	-7.48
				25	0	22.75	25.71	33	-7.29
	37775	2572.5	16QAM	1	0	22.64	25.60	33	-7.4
				1	24	22.74	25.70	33	-7.3
				12	6	21.62	24.58	33	-8.42
				25	0	21.52	24.48	33	-8.52
	38000	2595	16QAM	1	0	22.60	25.56	33	-7.44
				1	24	22.83	25.79	33	-7.21
				12	6	21.49	24.45	33	-8.55
				25	0	21.58	24.54	33	-8.46
	38225	2617.5	16QAM	1	0	22.75	25.71	33	-7.29
				1	24	22.66	25.62	33	-7.38
				12	6	21.65	24.61	33	-8.39
				25	0	21.70	24.66	33	-8.34
	37775	2572.5	64QAM	1	0	21.03	23.99	33	-9.01
				1	24	21.03	23.99	33	-9.01
				12	6	19.85	22.81	33	-10.19
				25	0	20.03	22.99	33	-10.01
	38000	2595	64QAM	1	0	20.99	23.95	33	-9.05
				1	24	21.28	24.24	33	-8.76
				12	6	20.01	22.97	33	-10.03
				25	0	19.93	22.89	33	-10.11
	38225	2617.5	64QAM	1	0	21.12	24.08	33	-8.92
				1	24	21.04	24.00	33	-9
				12	6	20.03	22.99	33	-10.01
				25	0	20.07	23.03	33	-9.97

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	37800	2575	QPSK	1	0	23.67	26.63	33	-6.37
				1	49	23.60	26.56	33	-6.44
				25	12	22.52	25.48	33	-7.52
				50	0	22.48	25.44	33	-7.56
	38000	2595	QPSK	1	0	23.35	26.31	33	-6.69
				1	49	23.92	26.88	33	-6.12
				25	12	22.40	25.36	33	-7.64
				50	0	22.53	25.49	33	-7.51
	38200	2615	QPSK	1	0	23.43	26.39	33	-6.61
				1	49	23.76	26.72	33	-6.28
				25	12	22.74	25.70	33	-7.3
				50	0	22.75	25.71	33	-7.29
	37800	2575	16QAM	1	0	22.75	25.71	33	-7.29
				1	49	22.76	25.72	33	-7.28
				25	12	21.60	24.56	33	-8.44
				50	0	21.56	24.52	33	-8.48
	38000	2595	16QAM	1	0	22.64	25.60	33	-7.4
				1	49	22.82	25.78	33	-7.22
				25	12	21.52	24.48	33	-8.52
				50	0	21.57	24.53	33	-8.47
	38200	2615	16QAM	1	0	22.67	25.63	33	-7.37
				1	49	22.67	25.63	33	-7.37
				25	12	21.59	24.55	33	-8.45
				50	0	21.59	24.55	33	-8.45
	37800	2575	64QAM	1	0	21.09	24.05	33	-8.95
				1	49	21.18	24.14	33	-8.86
				25	12	19.99	22.95	33	-10.05
				50	0	20.04	23.00	33	-10
	38000	2595	64QAM	1	0	21.00	23.96	33	-9.04
				1	49	21.21	24.17	33	-8.83
				25	12	19.96	22.92	33	-10.08
				50	0	19.83	22.79	33	-10.21
	38200	2615	64QAM	1	0	21.06	24.02	33	-8.98
				1	49	21.06	24.02	33	-8.98
				25	12	20.02	22.98	33	-10.02
				50	0	20.02	22.98	33	-10.02

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	37825	2577.5	QPSK	1	0	23.76	26.72	33	-6.28
				1	74	23.53	26.49	33	-6.51
				36	19	22.61	25.57	33	-7.43
				75	0	22.60	25.56	33	-7.44
	38000	2595	QPSK	1	0	23.45	26.41	33	-6.59
				1	74	23.78	26.74	33	-6.26
				36	19	22.41	25.37	33	-7.63
				75	0	22.53	25.49	33	-7.51
	38175	2612.5	QPSK	1	0	23.46	26.42	33	-6.58
				1	74	23.69	26.65	33	-6.35
				36	19	22.61	25.57	33	-7.43
				75	0	22.56	25.52	33	-7.48
	37825	2577.5	16QAM	1	0	22.73	25.69	33	-7.31
				1	74	22.64	25.60	33	-7.4
				36	19	21.50	24.46	33	-8.54
				75	0	21.57	24.53	33	-8.47
	38000	2595	16QAM	1	0	22.71	25.67	33	-7.33
				1	74	22.83	25.79	33	-7.21
				36	19	21.52	24.48	33	-8.52
				75	0	21.60	24.56	33	-8.44
	38175	2612.5	16QAM	1	0	22.65	25.61	33	-7.39
				1	74	22.65	25.61	33	-7.39
				36	19	21.74	24.70	33	-8.3
				75	0	21.60	24.56	33	-8.44
	37825	2577.5	64QAM	1	0	21.16	24.12	33	-8.88
				1	74	21.20	24.16	33	-8.84
				36	19	19.88	22.84	33	-10.16
				75	0	20.01	22.97	33	-10.03
	38000	2595	64QAM	1	0	21.01	23.97	33	-9.03
				1	74	21.28	24.24	33	-8.76
				36	19	19.95	22.91	33	-10.09
				75	0	19.92	22.88	33	-10.12
	38175	2612.5	64QAM	1	0	21.07	24.03	33	-8.97
				1	74	21.15	24.11	33	-8.89
				36	19	20.14	23.10	33	-9.9
				75	0	20.06	23.02	33	-9.98

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Antenna gain (dBi) 2.96

LTE Band 38_Uplink frequency band : 2570 to 2620 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	37850	2580	QPSK	1	0	23.77	26.73	33	-6.27
				1	99	23.65	26.61	33	-6.39
				50	25	22.63	25.59	33	-7.41
				100	0	22.67	25.63	33	-7.37
	38000	2595	QPSK	1	0	23.53	26.49	33	-6.51
				1	99	23.93	26.89	33	-6.11
				50	25	22.60	25.56	33	-7.44
				100	0	22.66	25.62	33	-7.38
	38150	2610	QPSK	1	0	23.60	26.56	33	-6.44
				1	99	23.77	26.73	33	-6.27
				50	25	22.75	25.71	33	-7.29
				100	0	22.76	25.72	33	-7.28
	37850	2580	16QAM	1	0	22.83	25.79	33	-7.21
				1	99	22.83	25.79	33	-7.21
				50	25	21.64	24.60	33	-8.4
				100	0	21.69	24.65	33	-8.35
	38000	2595	16QAM	1	0	22.76	25.72	33	-7.28
				1	99	22.98	25.94	33	-7.06
				50	25	21.63	24.59	33	-8.41
				100	0	21.63	24.59	33	-8.41
	38150	2610	16QAM	1	0	22.76	25.72	33	-7.28
				1	99	22.82	25.78	33	-7.22
				50	25	21.77	24.73	33	-8.27
				100	0	21.74	24.70	33	-8.3
	37850	2580	64QAM	1	0	21.23	24.19	33	-8.81
				1	99	21.23	24.19	33	-8.81
				50	25	20.04	23.00	33	-10
				100	0	20.09	23.05	33	-9.95
	38000	2595	64QAM	1	0	21.16	24.12	33	-8.88
				1	99	21.38	24.34	33	-8.66
				50	25	20.03	22.99	33	-10.01
				100	0	20.03	22.99	33	-10.01
	38150	2610	64QAM	1	0	21.16	24.12	33	-8.88
				1	99	21.22	24.18	33	-8.82
				50	25	20.17	23.13	33	-9.87
				100	0	20.14	23.10	33	-9.9

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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	24.93	27.89	33	-5.11
				1	24	24.75	27.71	33	-5.29
				12	6	23.87	26.83	33	-6.17
				25	0	23.79	26.75	33	-6.25
	40620	2593	QPSK	1	0	24.56	27.52	33	-5.48
				1	24	24.40	27.36	33	-5.64
				12	6	23.57	26.53	33	-6.47
				25	0	23.60	26.56	33	-6.44
	41565	2687.5	QPSK	1	0	24.26	27.22	33	-5.78
				1	24	24.27	27.23	33	-5.77
				12	6	23.19	26.15	33	-6.85
				25	0	23.24	26.20	33	-6.8
	39675	2498.5	16QAM	1	0	22.89	25.85	33	-7.15
				1	24	23.01	25.97	33	-7.03
				12	6	21.96	24.92	33	-8.08
				25	0	21.95	24.91	33	-8.09
	40620	2593	16QAM	1	0	22.40	25.36	33	-7.64
				1	24	22.16	25.12	33	-7.88
				12	6	21.53	24.49	33	-8.51
				25	0	21.46	24.42	33	-8.58
	41565	2687.5	16QAM	1	0	22.16	25.12	33	-7.88
				1	24	22.09	25.05	33	-7.95
				12	6	21.05	24.01	33	-8.99
				25	0	21.24	24.20	33	-8.8
	39675	2498.5	64QAM	1	0	20.95	23.91	33	-9.09
				1	24	21.99	24.95	33	-8.05
				12	6	21.11	24.07	33	-8.93
				25	0	20.90	23.86	33	-9.14
	40620	2593	64QAM	1	0	21.42	24.38	33	-8.62
				1	24	21.29	24.25	33	-8.75
				12	6	20.61	23.57	33	-9.43
				25	0	20.57	23.53	33	-9.47
	41565	2687.5	64QAM	1	0	21.23	24.19	33	-8.81
				1	24	21.30	24.26	33	-8.74
				12	6	20.14	23.10	33	-9.9
				25	0	20.23	23.19	33	-9.81

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10	39700	2501	QPSK	1	0	24.87	27.83	33	-5.17
				1	49	24.78	27.74	33	-5.26
				25	12	23.87	26.83	33	-6.17
				50	0	23.81	26.77	33	-6.23
	40620	2593	QPSK	1	0	24.57	27.53	33	-5.47
				1	49	24.36	27.32	33	-5.68
				25	12	23.63	26.59	33	-6.41
				50	0	23.56	26.52	33	-6.48
	41540	2685	QPSK	1	0	24.22	27.18	33	-5.82
				1	49	24.27	27.23	33	-5.77
				25	12	23.16	26.12	33	-6.88
				50	0	23.23	26.19	33	-6.81
	39700	2501	16QAM	1	0	22.92	25.88	33	-7.12
				1	49	23.01	25.97	33	-7.03
				25	12	22.01	24.97	33	-8.03
				50	0	21.88	24.84	33	-8.16
	40620	2593	16QAM	1	0	22.35	25.31	33	-7.69
				1	49	22.19	25.15	33	-7.85
				25	12	21.51	24.47	33	-8.53
				50	0	21.47	24.43	33	-8.57
	41540	2685	16QAM	1	0	22.10	25.06	33	-7.94
				1	49	22.11	25.07	33	-7.93
				25	12	21.10	24.06	33	-8.94
				50	0	21.17	24.13	33	-8.87
	39700	2501	64QAM	1	0	22.06	25.02	33	-7.98
				1	49	22.02	24.98	33	-8.02
				25	12	21.10	24.06	33	-8.94
				50	0	20.90	23.86	33	-9.14
	40620	2593	64QAM	1	0	21.42	24.38	33	-8.62
				1	49	21.24	24.20	33	-8.8
				25	12	20.56	23.52	33	-9.48
				50	0	20.55	23.51	33	-9.49
	41540	2685	64QAM	1	0	21.26	24.22	33	-8.78
				1	49	21.29	24.25	33	-8.75
				25	12	20.13	23.09	33	-9.91
				50	0	20.27	23.23	33	-9.77

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	24.89	27.85	33	-5.15
				1	74	24.72	27.68	33	-5.32
				36	18	23.94	26.90	33	-6.1
				75	0	23.77	26.73	33	-6.27
	40620	2593	QPSK	1	0	24.57	27.53	33	-5.47
				1	74	24.38	27.34	33	-5.66
				36	18	23.62	26.58	33	-6.42
				75	0	23.64	26.60	33	-6.4
	41515	2682.5	QPSK	1	0	24.25	27.21	33	-5.79
				1	74	24.23	27.19	33	-5.81
				36	18	23.19	26.15	33	-6.85
				75	0	23.19	26.15	33	-6.85
	39725	2503.5	16QAM	1	0	22.96	25.92	33	-7.08
				1	74	23.00	25.96	33	-7.04
				36	18	21.95	24.91	33	-8.09
				75	0	21.90	24.86	33	-8.14
	40620	2593	16QAM	1	0	22.40	25.36	33	-7.64
				1	74	22.22	25.18	33	-7.82
				36	18	21.49	24.45	33	-8.55
				75	0	21.43	24.39	33	-8.61
	41515	2682.5	16QAM	1	0	22.12	25.08	33	-7.92
				1	74	22.08	25.04	33	-7.96
				36	18	21.09	24.05	33	-8.95
				75	0	21.23	24.19	33	-8.81
	39725	2503.5	64QAM	1	0	22.00	24.96	33	-8.04
				1	74	22.01	24.97	33	-8.03
				36	18	21.13	24.09	33	-8.91
				75	0	20.97	23.93	33	-9.07
	40620	2593	64QAM	1	0	21.41	24.37	33	-8.63
				1	74	21.27	24.23	33	-8.77
				36	18	20.58	23.54	33	-9.46
				75	0	20.55	23.51	33	-9.49
	41515	2682.5	64QAM	1	0	21.32	24.28	33	-8.72
				1	74	21.37	24.33	33	-8.67
				36	18	20.10	23.06	33	-9.94
				75	0	20.23	23.19	33	-9.81

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Antenna gain (dBi) 2.96

LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	39750	2506	QPSK	1	0	24.96	27.92	33	-5.08
				1	99	24.82	27.78	33	-5.22
				50	25	23.95	26.91	33	-6.09
				100	0	23.86	26.82	33	-6.18
	40620	2593	QPSK	1	0	24.61	27.57	33	-5.43
				1	99	24.42	27.38	33	-5.62
				50	25	23.64	26.60	33	-6.4
				100	0	23.66	26.62	33	-6.38
	41490	2680	QPSK	1	0	24.30	27.26	33	-5.74
				1	99	24.29	27.25	33	-5.75
				50	25	23.25	26.21	33	-6.79
				100	0	23.28	26.24	33	-6.76
	39750	2506	16QAM	1	0	22.98	25.94	33	-7.06
				1	99	23.02	25.98	33	-7.02
				50	25	22.03	24.99	33	-8.01
				100	0	21.97	24.93	33	-8.07
	40620	2593	16QAM	1	0	22.44	25.40	33	-7.6
				1	99	22.24	25.20	33	-7.8
				50	25	21.57	24.53	33	-8.47
				100	0	21.48	24.44	33	-8.56
	41490	2680	16QAM	1	0	22.20	25.16	33	-7.84
				1	99	22.18	25.14	33	-7.86
				50	25	21.13	24.09	33	-8.91
				100	0	21.25	24.21	33	-8.79
	39750	2506	64QAM	1	0	22.07	25.03	33	-7.97
				1	99	22.06	25.02	33	-7.98
				50	25	21.15	24.11	33	-8.89
				100	0	21.00	23.96	33	-9.04
	40620	2593	64QAM	1	0	21.48	24.44	33	-8.56
				1	99	21.33	24.29	33	-8.71
				50	25	20.63	23.59	33	-9.41
				100	0	20.62	23.58	33	-9.42
	41490	2680	64QAM	1	0	21.33	24.29	33	-8.71
				1	99	21.38	24.34	33	-8.66
				50	25	20.20	23.16	33	-9.84
				100	0	20.30	23.26	33	-9.74

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	23.50	23.23	30	-6.77
				1	5	23.53	23.26	30	-6.74
				3	2	22.68	22.41	30	-7.59
				6	0	22.56	22.29	30	-7.71
	132322	1745	QPSK	1	0	23.60	23.33	30	-6.67
				1	5	23.62	23.35	30	-6.65
				3	2	22.78	22.51	30	-7.49
				6	0	22.66	22.39	30	-7.61
	132665	1779.3	QPSK	1	0	23.85	23.58	30	-6.42
				1	5	23.82	23.55	30	-6.45
				3	2	22.91	22.64	30	-7.36
				6	0	22.89	22.62	30	-7.38
	131979	1710.7	16QAM	1	0	22.82	22.55	30	-7.45
				1	5	22.81	22.54	30	-7.46
				3	2	22.60	22.33	30	-7.67
				6	0	21.62	21.35	30	-8.65
	132322	1745	16QAM	1	0	22.94	22.67	30	-7.33
				1	5	22.88	22.61	30	-7.39
				3	2	22.65	22.38	30	-7.62
				6	0	21.74	21.47	30	-8.53
	132665	1779.3	16QAM	1	0	22.98	22.71	30	-7.29
				1	5	22.91	22.64	30	-7.36
				3	2	22.91	22.64	30	-7.36
				6	0	21.96	21.69	30	-8.31
	131979	1710.7	64QAM	1	0	21.67	21.40	30	-8.6
				1	5	21.73	21.46	30	-8.54
				3	2	21.43	21.16	30	-8.84
				6	0	20.51	20.24	30	-9.76
	132322	1745	64QAM	1	0	21.86	21.59	30	-8.41
				1	5	21.80	21.53	30	-8.47
				3	2	21.55	21.28	30	-8.72
				6	0	20.56	20.29	30	-9.71
	132665	1779.3	64QAM	1	0	21.83	21.56	30	-8.44
				1	5	21.89	21.62	30	-8.38
				3	2	21.89	21.62	30	-8.38
				6	0	20.83	20.56	30	-9.44

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	23.10	22.83	30	-7.17
				1	14	23.13	22.86	30	-7.14
				8	4	22.26	21.99	30	-8.01
				15	0	22.25	21.98	30	-8.02
	132322	1745	QPSK	1	0	23.40	23.13	30	-6.87
				1	14	23.31	23.04	30	-6.96
				8	4	22.02	21.75	30	-8.25
				15	0	22.44	22.17	30	-7.83
	132657	1778.5	QPSK	1	0	23.58	23.31	30	-6.69
				1	14	23.36	23.09	30	-6.91
				8	4	22.29	22.02	30	-7.98
				15	0	22.30	22.03	30	-7.97
	131987	1711.5	16QAM	1	0	22.63	22.36	30	-7.64
				1	14	22.51	22.24	30	-7.76
				8	4	21.25	20.98	30	-9.02
				15	0	21.33	21.06	30	-8.94
	132322	1745	16QAM	1	0	22.35	22.08	30	-7.92
				1	14	22.40	22.13	30	-7.87
				8	4	21.21	20.94	30	-9.06
				15	0	21.37	21.10	30	-8.9
	132657	1778.5	16QAM	1	0	22.39	22.12	30	-7.88
				1	14	22.18	21.91	30	-8.09
				8	4	21.64	21.37	30	-8.63
				15	0	21.49	21.22	30	-8.78
	131987	1711.5	64QAM	1	0	21.54	21.27	30	-8.73
				1	14	21.37	21.10	30	-8.9
				8	4	20.24	19.97	30	-10.03
				15	0	20.20	19.93	30	-10.07
	132322	1745	64QAM	1	0	21.24	20.97	30	-9.03
				1	14	21.28	21.01	30	-8.99
				8	4	20.02	19.75	30	-10.25
				15	0	20.35	20.08	30	-9.92
	132657	1778.5	64QAM	1	0	21.27	21.00	30	-9
				1	14	21.15	20.88	30	-9.12
				8	4	20.58	20.31	30	-9.69
				15	0	20.48	20.21	30	-9.79

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BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	23.28	23.01	30	-6.99
				1	24	23.24	22.97	30	-7.03
				12	6	22.47	22.20	30	-7.8
				25	0	22.44	22.17	30	-7.83
	132322	1745	QPSK	1	0	23.42	23.15	30	-6.85
				1	24	23.36	23.09	30	-6.91
				12	6	22.17	21.90	30	-8.1
				25	0	22.49	22.22	30	-7.78
	132647	1777.5	QPSK	1	0	23.64	23.37	30	-6.63
				1	24	23.50	23.23	30	-6.77
				12	6	22.44	22.17	30	-7.83
				25	0	22.51	22.24	30	-7.76
	131997	1712.5	16QAM	1	0	22.65	22.38	30	-7.62
				1	24	22.53	22.26	30	-7.74
				12	6	21.34	21.07	30	-8.93
				25	0	21.43	21.16	30	-8.84
	132322	1745	16QAM	1	0	22.45	22.18	30	-7.82
				1	24	22.46	22.19	30	-7.81
				12	6	21.41	21.14	30	-8.86
				25	0	21.39	21.12	30	-8.88
	132647	1777.5	16QAM	1	0	22.50	22.23	30	-7.77
				1	24	22.37	22.10	30	-7.9
				12	6	21.80	21.53	30	-8.47
				25	0	21.66	21.39	30	-8.61
	131997	1712.5	64QAM	1	0	21.49	21.22	30	-8.78
				1	24	21.38	21.11	30	-8.89
				12	6	20.15	19.88	30	-10.12
				25	0	20.24	19.97	30	-10.03
	132322	1745	64QAM	1	0	21.43	21.16	30	-8.84
				1	24	21.35	21.08	30	-8.92
				12	6	20.40	20.13	30	-9.87
				25	0	20.31	20.04	30	-9.96
	132647	1777.5	64QAM	1	0	21.42	21.15	30	-8.85
				1	24	21.36	21.09	30	-8.91
				12	6	20.69	20.42	30	-9.58
				25	0	20.63	20.36	30	-9.64

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	132022	1715	QPSK	1	0	23.42	23.15	30	-6.85
				1	49	23.31	23.04	30	-6.96
				25	12	22.59	22.32	30	-7.68
				50	0	22.49	22.22	30	-7.78
	132322	1745	QPSK	1	0	23.62	23.35	30	-6.65
				1	49	23.43	23.16	30	-6.84
				25	12	22.36	22.09	30	-7.91
				50	0	22.55	22.28	30	-7.72
	132622	1775	QPSK	1	0	23.71	23.44	30	-6.56
				1	49	23.60	23.33	30	-6.67
				25	12	22.65	22.38	30	-7.62
				50	0	22.62	22.35	30	-7.65
	132022	1715	16QAM	1	0	22.77	22.50	30	-7.5
				1	49	22.74	22.47	30	-7.53
				25	12	21.53	21.26	30	-8.74
				50	0	21.55	21.28	30	-8.72
	132322	1745	16QAM	1	0	22.59	22.32	30	-7.68
				1	49	22.58	22.31	30	-7.69
				25	12	21.56	21.29	30	-8.71
				50	0	21.55	21.28	30	-8.72
	132622	1775	16QAM	1	0	22.66	22.39	30	-7.61
				1	49	22.58	22.31	30	-7.69
				25	12	21.87	21.60	30	-8.4
				50	0	21.68	21.41	30	-8.59
	132022	1715	64QAM	1	0	21.69	21.42	30	-8.58
				1	49	21.74	21.47	30	-8.53
				25	12	20.50	20.23	30	-9.77
				50	0	20.44	20.17	30	-9.83
	132322	1745	64QAM	1	0	21.40	21.13	30	-8.87
				1	49	21.42	21.15	30	-8.85
				25	12	20.40	20.13	30	-9.87
				50	0	20.51	20.24	30	-9.76
	132622	1775	64QAM	1	0	21.54	21.27	30	-8.73
				1	49	21.44	21.17	30	-8.83
				25	12	20.79	20.52	30	-9.48
				50	0	20.66	20.39	30	-9.61

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	132047	1717.5	QPSK	1	0	23.55	23.28	30	-6.72
				1	74	23.46	23.19	30	-6.81
				36	18	22.67	22.40	30	-7.6
				75	0	22.65	22.38	30	-7.62
	132322	1745	QPSK	1	0	23.70	23.43	30	-6.57
				1	74	23.62	23.35	30	-6.65
				36	18	22.51	22.24	30	-7.76
				75	0	22.58	22.31	30	-7.69
	132597	1772.5	QPSK	1	0	23.77	23.50	30	-6.5
				1	74	23.80	23.53	30	-6.47
				36	18	22.71	22.44	30	-7.56
				75	0	22.75	22.48	30	-7.52
	132047	1717.5	16QAM	1	0	22.83	22.56	30	-7.44
				1	74	22.81	22.54	30	-7.46
				36	18	21.60	21.33	30	-8.67
				75	0	21.65	21.38	30	-8.62
	132322	1745	16QAM	1	0	22.69	22.42	30	-7.58
				1	74	22.79	22.52	30	-7.48
				36	18	21.68	21.41	30	-8.59
				75	0	21.62	21.35	30	-8.65
	132597	1772.5	16QAM	1	0	22.86	22.59	30	-7.41
				1	74	22.74	22.47	30	-7.53
				36	18	21.90	21.63	30	-8.37
				75	0	21.85	21.58	30	-8.42
	132047	1717.5	64QAM	1	0	21.70	21.43	30	-8.57
				1	74	21.74	21.47	30	-8.53
				36	18	20.49	20.22	30	-9.78
				75	0	20.56	20.29	30	-9.71
	132322	1745	64QAM	1	0	21.67	21.40	30	-8.6
				1	74	21.61	21.34	30	-8.66
				36	18	20.67	20.40	30	-9.6
				75	0	20.53	20.26	30	-9.74
	132597	1772.5	64QAM	1	0	21.70	21.43	30	-8.57
				1	74	21.63	21.36	30	-8.64
				36	18	20.84	20.57	30	-9.43
				75	0	20.70	20.43	30	-9.57

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Antenna gain (dBi) -0.27

LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	23.66	23.39	30	-6.61
				1	99	23.59	23.32	30	-6.68
				50	25	22.75	22.48	30	-7.52
				100	0	22.79	22.52	30	-7.48
	132322	1745	QPSK	1	0	23.71	23.44	30	-6.56
				1	99	23.74	23.47	30	-6.53
				50	25	22.65	22.38	30	-7.62
				100	0	22.69	22.42	30	-7.58
	132572	1770	QPSK	1	0	23.90	23.63	30	-6.37
				1	99	23.88	23.61	30	-6.39
				50	25	22.86	22.59	30	-7.41
				100	0	22.94	22.67	30	-7.33
	132072	1720	16QAM	1	0	22.92	22.65	30	-7.35
				1	99	22.89	22.62	30	-7.38
				50	25	21.76	21.49	30	-8.51
				100	0	21.78	21.51	30	-8.49
	132322	1745	16QAM	1	0	22.83	22.56	30	-7.44
				1	99	23.00	22.73	30	-7.27
				50	25	21.71	21.44	30	-8.56
				100	0	21.72	21.45	30	-8.55
	132572	1770	16QAM	1	0	22.99	22.72	30	-7.28
				1	99	22.88	22.61	30	-7.39
				50	25	21.92	21.65	30	-8.35
				100	0	21.98	21.71	30	-8.29
	132072	1720	64QAM	1	0	21.84	21.57	30	-8.43
				1	99	21.72	21.45	30	-8.55
				50	25	20.63	20.36	30	-9.64
				100	0	20.77	20.50	30	-9.5
	132322	1745	64QAM	1	0	21.70	21.43	30	-8.57
				1	99	21.93	21.66	30	-8.34
				50	25	20.62	20.35	30	-9.65
				100	0	20.70	20.43	30	-9.57
	132572	1770	64QAM	1	0	21.92	21.65	30	-8.35
				1	99	21.73	21.46	30	-8.54
				50	25	20.90	20.63	30	-9.37
				100	0	20.89	20.62	30	-9.38

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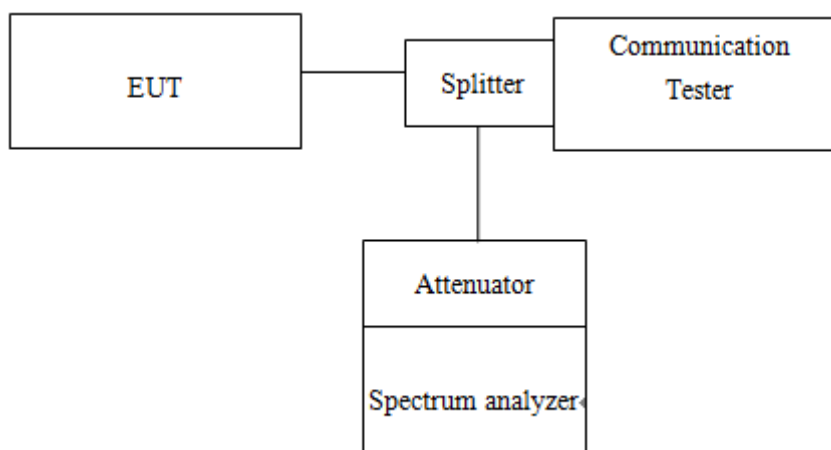
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## 7. OCCUPIED BANDWIDTH MEASUREMENT

### 7.1. Standard Applicable

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

### 7.2. Test Set-up



### 7.3. Measurement Procedure

#### **99% & 26dB Bandwidth with detector peak**

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

#### **99% Bandwidth with detector sample**

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

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#### 7.4. Measurement Equipment Used

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

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## 7.5. Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		WCDMA II	HSDPA II	HSUPA II	WCDMA II	HSDPA II	HSUPA II
1852.40	9262	4.07280	4.06940	4.07720	4.601	4.615	4.626
1880.00	9400	4.07760	4.08290	4.08330	4.700	4.704	4.667
1907.60	9538	4.07530	4.07470	4.07870	4.650	4.659	4.672

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	4.06880	4.06920	4.06890	4.630	4.628	4.634
1732.60	1413	4.09960	4.09150	4.08680	4.706	4.743	4.727
1752.60	1513	4.06370	4.06590	4.07420	4.610	4.620	4.623

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	4.09260	4.09100	4.08300	4.681	4.685	4.681
836.60	4183	4.06630	4.06590	4.06900	4.679	4.665	4.691
846.60	4233	4.09280	4.09930	4.09220	4.819	4.753	4.884

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	1.1129	1.1109	1.1061	1.272	1.258	1.256
1880.0	18900	1.1048	1.1132	1.1006	1.251	1.255	1.254
1909.3	19193	1.1278	1.1250	1.1069	1.800	1.526	1.251

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	2.7237	2.7268	2.7219	3.290	3.001	3.019
1880.0	18900	2.7330	2.7155	2.7207	3.004	3.004	3.008
1908.5	19185	2.7706	2.7273	2.7243	4.907	3.143	3.022

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	4.5298	4.5125	4.5093	5.650	4.965	5.372
1880.0	18900	4.5156	4.5093	4.5076	4.984	4.987	4.967
1907.5	19175	4.5678	4.5249	4.5360	5.974	4.951	5.011

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	9.0971	9.0784	9.0591	10.420	10.549	10.524
1880.0	18900	9.0587	9.0353	9.0522	10.509	10.451	10.413
1905.0	19150	9.1032	9.0391	9.0316	10.609	10.627	10.444

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	13.582	13.556	13.572	15.846	15.812	15.647
1880.0	18900	13.509	13.590	13.478	15.298	15.677	15.482
1902.5	19125	13.474	13.505	13.502	15.467	15.712	15.644

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	18.012	18.040	18.066	20.251	20.047	20.061
1880.0	18900	17.983	17.976	17.928	20.044	19.781	19.717
1900.0	19100	17.945	17.941	17.957	19.985	19.789	19.873

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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	1.1022	<b>1.1085</b>	1.1061	1.250	<b>1.262</b>	<b>1.258</b>
1732.5	20175	<b>1.1030</b>	1.1070	1.0990	<b>1.255</b>	1.257	1.254
1754.3	20393	1.0997	<b>1.1085</b>	<b>1.1076</b>	1.253	1.254	1.255

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	2.7188	2.7092	2.7187	2.999	3.003	3.008
1732.5	20175	<b>2.7227</b>	2.7086	<b>2.7266</b>	2.999	3.003	2.998
1753.5	20385	2.7182	<b>2.7141</b>	2.7162	<b>3.004</b>	<b>3.006</b>	<b>3.009</b>

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	<b>4.5222</b>	4.5112	<b>4.5144</b>	4.935	4.933	4.964
1732.5	20175	4.5170	<b>4.5170</b>	4.5137	<b>4.978</b>	<b>4.955</b>	<b>4.985</b>
1752.5	20375	4.5182	4.5002	4.5134	4.961	4.948	4.981

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	9.0483	<b>9.1071</b>	<b>9.0713</b>	<b>10.551</b>	<b>10.601</b>	<b>10.542</b>
1732.5	20175	9.0665	9.1023	9.0674	10.513	10.470	10.459
1750.0	20350	<b>9.0758</b>	9.0720	9.0555	10.525	10.534	10.454

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	13.509	13.491	13.501	15.366	15.587	<b>15.954</b>
1732.5	20175	13.533	<b>13.578</b>	<b>13.558</b>	15.466	<b>15.911</b>	15.868
1747.5	20325	<b>13.547</b>	13.522	13.538	<b>15.838</b>	15.883	15.550

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	17.954	17.912	17.948	19.855	19.932	19.838
1732.5	20175	<b>18.059</b>	18.013	18.025	<b>20.391</b>	<b>20.157</b>	20.138
1745.0	20300	18.010	<b>18.051</b>	<b>18.060</b>	20.272	20.079	<b>20.436</b>

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	1.1049	1.1124	1.1018	1.254	1.255	1.246
836.5	20525	1.1036	1.1112	1.0990	1.257	1.259	1.245
848.3	20643	<b>1.1133</b>	<b>1.1236</b>	<b>1.1071</b>	<b>1.350</b>	<b>1.937</b>	<b>1.273</b>

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	<b>2.7195</b>	2.7212	<b>2.7246</b>	3.010	3.007	3.001
836.5	20525	2.7116	2.7135	2.7090	2.993	2.996	3.004
847.5	20635	2.7176	<b>2.7272</b>	2.7222	<b>3.178</b>	<b>3.615</b>	<b>3.016</b>

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	<b>4.5329</b>	4.5065	4.5123	<b>4.993</b>	4.938	<b>5.016</b>
836.5	20525	4.5134	<b>4.5178</b>	4.5031	4.937	4.943	4.982
846.5	20625	4.5187	4.5115	<b>4.5276</b>	4.983	<b>5.021</b>	4.941

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	9.1026	9.1024	9.0909	10.578	10.508	<b>10.564</b>
836.5	20525	9.0071	9.0087	9.0113	10.415	10.385	10.467
844.0	20600	<b>9.1622</b>	<b>9.1570</b>	<b>9.1176</b>	<b>10.608</b>	<b>10.695</b>	10.558

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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	4.5207	4.5108	4.5141	5.031	4.938	4.979
2535.0	21100	<b>4.5451</b>	4.5012	<b>4.5288</b>	5.407	4.936	4.991
2567.5	21425	4.5329	<b>4.5208</b>	4.5252	<b>5.864</b>	<b>5.924</b>	<b>5.044</b>

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	9.0900	9.1003	9.0505	10.986	10.638	10.502
2535.0	21100	9.0724	9.0969	<b>9.0794</b>	10.680	10.635	<b>10.547</b>
2565.0	21400	<b>9.1318</b>	<b>9.1063</b>	9.0651	<b>14.866</b>	<b>13.756</b>	10.492

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	13.562	13.574	13.533	16.174	15.623	<b>16.033</b>
2535.0	21100	13.552	13.539	13.534	15.688	15.457	15.832
2562.5	21375	<b>13.604</b>	<b>13.583</b>	<b>13.556</b>	<b>17.791</b>	<b>19.580</b>	15.622

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	18.041	18.031	18.042	19.980	20.073	19.981
2535.0	21100	17.979	18.009	18.014	20.032	<b>23.013</b>	20.260
2560.0	21350	<b>18.067</b>	<b>18.060</b>	<b>18.059</b>	<b>22.521</b>	20.884	<b>20.565</b>

LTE BAND 12 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
699.7	23017	1.1059	<b>1.1138</b>	1.1027	<b>1.254</b>	<b>1.272</b>	1.251
707.5	23095	1.1004	1.1074	1.1042	1.253	1.252	1.250
715.3	23173	<b>1.1081</b>	1.1064	<b>1.1061</b>	1.249	1.256	<b>1.257</b>

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	2.7180	2.7124	2.7231	3.002	<b>3.003</b>	<b>3.015</b>
707.5	23095	2.7139	2.7087	<b>2.7243</b>	3.009	2.997	3.011
714.5	23165	<b>2.7243</b>	<b>2.7221</b>	2.7232	<b>3.013</b>	3.001	3.012

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	4.5154	4.5187	<b>4.5410</b>	4.979	4.955	4.960
707.5	23095	4.5205	4.4959	4.5269	4.954	4.930	4.964
713.5	23155	<b>4.5315</b>	<b>4.5221</b>	4.5235	<b>5.036</b>	<b>4.958</b>	<b>4.979</b>

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	<b>9.1235</b>	<b>9.1095</b>	<b>9.1387</b>	<b>10.577</b>	<b>10.623</b>	<b>10.493</b>
707.5	23095	9.0241	9.0420	9.0796	10.352	10.373	10.422
711.0	23130	9.0431	9.0198	9.0208	10.425	10.471	10.471

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	<b>4.5461</b>	<b>4.5421</b>	4.5227	5.834	6.050	4.995
782.0	23230	4.5138	4.5323	<b>4.5282</b>	5.170	<b>6.262</b>	<b>5.052</b>
784.5	23255	4.5004	4.5029	4.5008	5.405	5.291	4.927

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	<b>9.014</b>	<b>9.016</b>	<b>9.031</b>	<b>10.378</b>	<b>10.375</b>	<b>10.400</b>

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	<b>4.5219</b>	4.5184	4.6264	<b>4.994</b>	6.660	9.555
793.0	23330	4.5067	4.5425	4.6850	4.937	8.543	9.314
795.5	23355	4.5129	<b>4.5557</b>	<b>4.9500</b>	4.966	<b>8.888</b>	<b>9.809</b>

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	<b>8.993</b>	<b>8.999</b>	<b>9.334</b>	<b>10.290</b>	<b>10.440</b>	<b>18.850</b>

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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	4.5014	4.5047	4.5174	4.927	<b>4.960</b>	<b>4.996</b>
710.0	23790	4.5007	4.5173	4.5038	4.952	4.950	4.965
713.5	23825	<b>4.5142</b>	<b>4.5212</b>	<b>4.5286</b>	<b>5.043</b>	4.939	4.948

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	9.0253	9.0197	9.0245	<b>10.483</b>	10.359	<b>10.456</b>
710.0	23790	9.0139	8.9970	9.0221	10.482	10.384	10.253
711.0	23800	<b>9.0386</b>	<b>9.0263</b>	<b>9.0311</b>	10.448	<b>10.519</b>	10.425

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	1.1068	1.1111	1.1014	1.258	1.255	1.256
1882.5	26365	1.1032	<b>1.1156</b>	1.1032	1.253	1.255	1.250
1914.3	26683	1.1064	1.1103	<b>1.1084</b>	1.272	<b>1.302</b>	<b>1.260</b>

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	2.7118	2.7085	2.7174	2.990	3.007	2.998
1882.5	26365	2.7184	<b>2.7267</b>	<b>2.7306</b>	3.001	<b>3.013</b>	<b>3.005</b>
1913.5	26675	<b>2.7363</b>	2.7080	2.7172	<b>3.373</b>	3.004	3.004

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	<b>4.5213</b>	4.5099	4.5174	4.932	4.921	<b>5.005</b>
1882.5	26365	4.5075	<b>4.5110</b>	4.5214	4.931	4.934	4.962
1912.5	26665	4.5101	4.4974	<b>4.5343</b>	<b>5.122</b>	<b>4.937</b>	4.999

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	9.0499	9.0432	9.0167	10.455	10.455	10.400
1882.5	26365	9.0266	9.0298	9.0339	10.463	<b>10.538</b>	10.492
1910.0	26640	9.0830	<b>9.0938</b>	<b>9.1292</b>	<b>11.373</b>	10.523	<b>10.542</b>

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	13.521	13.504	13.518	15.558	15.317	15.475
1882.5	26365	13.454	13.489	13.488	15.698	<b>15.824</b>	15.515
1907.5	26615	<b>13.579</b>	<b>13.560</b>	<b>13.554</b>	<b>15.849</b>	15.803	<b>15.757</b>

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	<b>18.0370</b>	<b>17.9820</b>	17.9420	19.990	20.000	19.919
1882.5	26365	17.9420	17.9240	17.9150	20.041	20.002	19.923
1905.0	26590	18.0100	17.9760	<b>18.0190</b>	20.085	<b>20.903</b>	<b>20.089</b>

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	1.1026	1.1065	1.1057	1.251	1.259	1.251
836.5	26915	1.1034	1.1115	1.1084	1.254	1.262	1.256
848.3	27033	<b>1.1153</b>	<b>1.1227</b>	<b>1.1159</b>	<b>1.610</b>	<b>1.882</b>	<b>1.257</b>

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	2.7202	2.7167	2.7208	3.006	3.000	3.012
836.5	26915	2.7161	2.7147	<b>2.7288</b>	2.998	3.002	3.006
847.5	27025	<b>2.7231</b>	<b>2.7287</b>	2.7179	<b>3.153</b>	<b>3.577</b>	<b>3.016</b>

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	4.5187	4.5008	<b>4.5260</b>	<b>4.988</b>	4.896	4.969
836.5	26915	4.5044	4.4996	4.5086	4.947	<b>4.979</b>	4.964
846.5	27015	<b>4.5237</b>	<b>4.5199</b>	4.5252	4.976	4.949	<b>5.015</b>

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	<b>9.1258</b>	9.1046	9.0995	10.550	10.570	<b>10.631</b>
836.5	26915	9.0034	9.0136	9.0000	10.350	10.350	10.463
844.0	26990	9.1030	<b>9.1278</b>	<b>9.1456</b>	<b>10.570</b>	<b>10.610</b>	10.535

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	<b>13.603</b>	<b>13.602</b>	<b>13.593</b>	<b>15.970</b>	<b>15.730</b>	<b>15.833</b>
836.5	26915	13.434	13.489	13.464	15.280	15.210	15.297
841.5	26965	13.564	13.569	13.553	15.680	15.340	15.702

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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	1.1022	1.1071	<b>1.1080</b>	1.253	1.252	1.254
819.0	26740	<b>1.1117</b>	<b>1.1135</b>	1.1067	<b>1.255</b>	<b>1.408</b>	<b>1.259</b>
823.3	26783	1.1044	1.1114	1.1040	1.250	1.254	1.254

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	2.7162	2.7159	2.7117	2.995	2.997	<b>3.004</b>
819.0	26740	<b>2.7201</b>	<b>2.7212</b>	<b>2.7182</b>	3.005	<b>3.018</b>	2.999
822.5	26775	2.7193	2.7197	2.7155	<b>3.009</b>	3.004	2.992

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	<b>4.5103</b>	<b>4.5244</b>	<b>4.5232</b>	<b>4.962</b>	4.907	4.963
819.0	26740	4.4998	4.5104	4.4982	4.946	<b>4.937</b>	4.968
821.5	26765	4.5089	4.5048	4.5137	4.943	4.926	<b>4.977</b>

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	<b>9.0223</b>	<b>8.9982</b>	<b>9.0075</b>	<b>10.390</b>	<b>10.530</b>	<b>10.334</b>

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	4.5268	4.5174	4.5125	4.978	<b>5.202</b>	<b>4.959</b>
2310.0	27710	<b>4.5272</b>	4.5064	4.5084	4.979	4.963	4.945
2312.5	27735	4.5166	4.5038	<b>4.5345</b>	<b>5.000</b>	4.968	4.939

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
2310.0	27710	<b>9.0534</b>	9.0513	<b>9.0854</b>	<b>10.420</b>	<b>10.500</b>	10.410

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	<b>4.5304</b>	4.5046	4.4997	<b>5.170</b>	5.056	4.989
2595.0	38000	4.5232	4.5104	4.5153	5.147	<b>5.165</b>	4.966
2617.5	38225	4.5055	<b>4.5240</b>	<b>4.5416</b>	5.029	5.136	<b>5.145</b>

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	<b>9.0472</b>	9.0390	9.0287	10.370	<b>10.765</b>	10.409
2595.0	38000	9.0318	<b>9.0568</b>	9.0322	10.359	10.567	<b>10.437</b>
2615.0	38200	9.0375	9.0092	<b>9.0510</b>	<b>10.401</b>	10.303	10.414

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	<b>13.542</b>	<b>13.588</b>	13.524	15.388	15.931	<b>16.151</b>
2595.0	38000	13.519	13.564	<b>13.544</b>	<b>15.391</b>	<b>16.263</b>	16.081
2612.5	38175	13.522	13.529	13.508	15.371	15.997	15.664

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	<b>17.997</b>	<b>18.035</b>	17.986	<b>20.196</b>	20.040	19.949
2595.0	38000	17.991	18.012	<b>17.989</b>	19.748	20.150	20.003
2610.0	38150	17.989	18.000	17.961	19.883	<b>21.095</b>	<b>20.228</b>

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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	4.5152	4.5000	<b>4.5356</b>	<b>5.224</b>	4.917	<b>5.008</b>
2593.0	40620	4.5101	<b>4.5131</b>	4.5151	4.997	4.938	4.889
2687.5	41565	<b>4.5309</b>	4.5034	4.5096	4.917	<b>4.968</b>	4.969

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	9.0312	9.0110	9.0433	10.311	10.402	10.414
2593.0	40620	<b>9.0593</b>	<b>9.0645</b>	<b>9.0662</b>	<b>10.436</b>	10.487	10.331
2685.0	41540	9.0182	9.0477	9.0399	10.368	<b>10.523</b>	<b>10.563</b>

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	<b>13.570</b>	13.498	13.531	15.985	15.666	15.794
2593.0	40620	13.512	13.529	13.512	15.547	<b>15.863</b>	<b>15.905</b>
2682.5	41515	13.539	<b>13.538</b>	<b>13.566</b>	<b>16.147</b>	15.519	15.755

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	<b>18.017</b>	18.047	17.994	<b>20.217</b>	<b>21.248</b>	<b>20.062</b>
2593.0	40620	18.012	18.019	17.972	19.948	20.250	19.972
2680.0	41490	17.955	<b>18.090</b>	<b>18.006</b>	19.928	20.997	19.908

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	<b>1.1063</b>	<b>1.1101</b>	1.1054	<b>1.256</b>	1.249	<b>1.257</b>
1745.0	132322	1.1035	1.1062	1.1054	1.255	1.256	1.251
1779.3	132665	1.0989	1.1020	1.1022	1.250	1.256	1.251

LTE BAND 66 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1711.5	131987	<b>2.7244</b>	2.7161	2.7165	3.005	3.005	2.999
1745.0	132322	2.7209	2.7168	2.7146	<b>3.012</b>	3.007	3.013
1778.5	132657	2.7176	2.7195	<b>2.7205</b>	2.992	<b>3.017</b>	3.007

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	4.5140	4.5025	4.5159	4.937	4.966	4.991
1745.0	132322	4.5199	4.5249	<b>4.5332</b>	5.043	<b>5.179</b>	4.974
1777.5	132647	4.5311	4.5255	4.5202	4.954	4.975	4.961

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	9.0602	9.0346	9.0402	10.433	10.471	10.485
1745.0	132322	<b>9.1139</b>	9.0792	9.0888	10.502	10.519	10.488
1775.0	132622	9.0784	9.0881	9.0703	10.524	<b>10.615</b>	10.476

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	13.4890	13.4990	13.5100	15.630	15.598	15.388
1745.0	132322	13.5480	<b>13.5860</b>	13.5500	15.953	15.706	15.893
1772.5	132597	13.5850	13.5790	13.5570	<b>16.084</b>	15.720	15.641

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	17.8960	17.9270	17.8920	19.897	20.069	19.885
1745.0	132322	18.0480	<b>18.0600</b>	18.0500	20.123	<b>20.421</b>	20.366
1770.0	132572	18.0170	18.0540	18.0000	20.047	20.331	19.931

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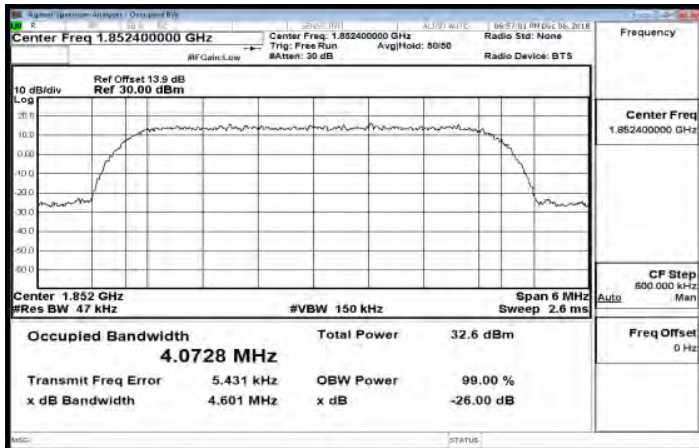
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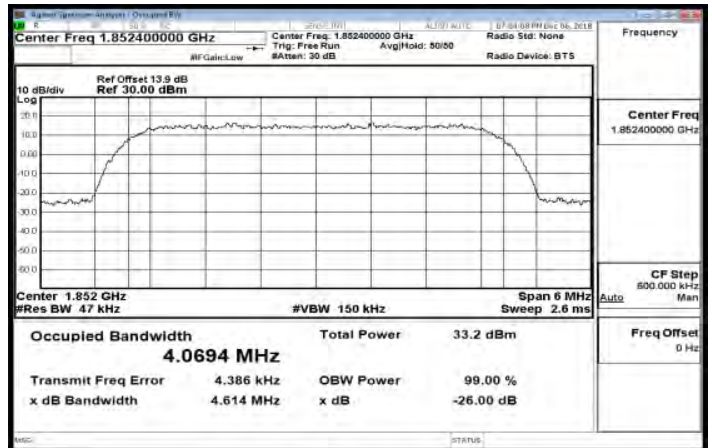
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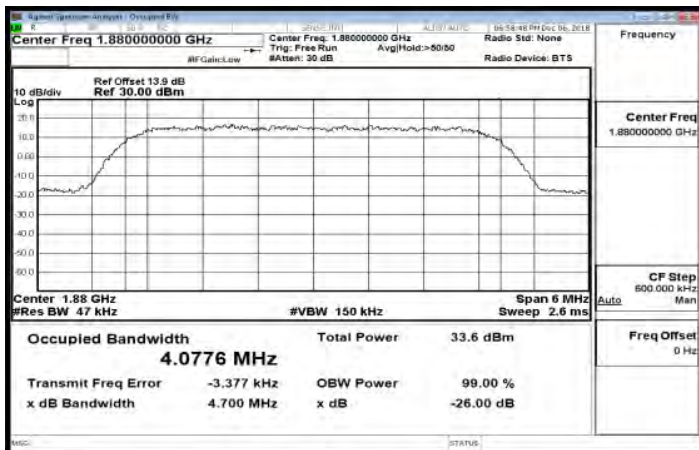
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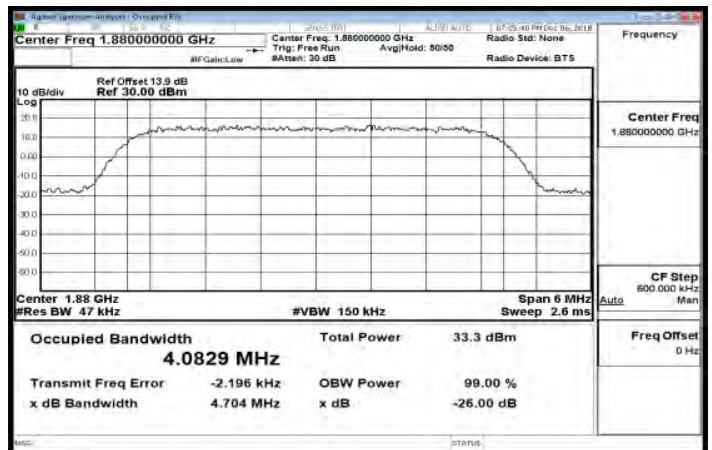
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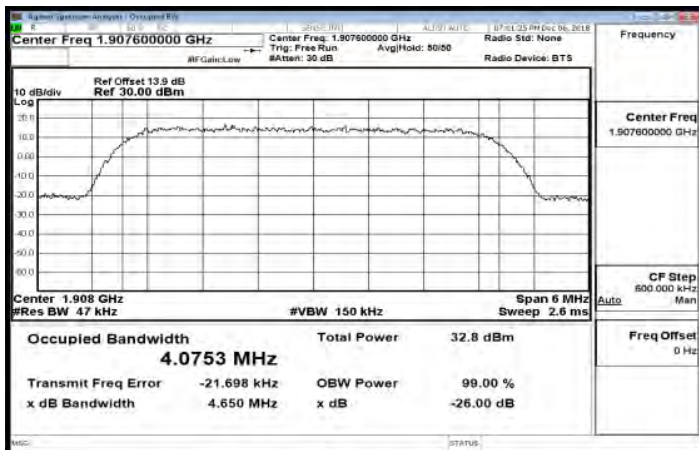
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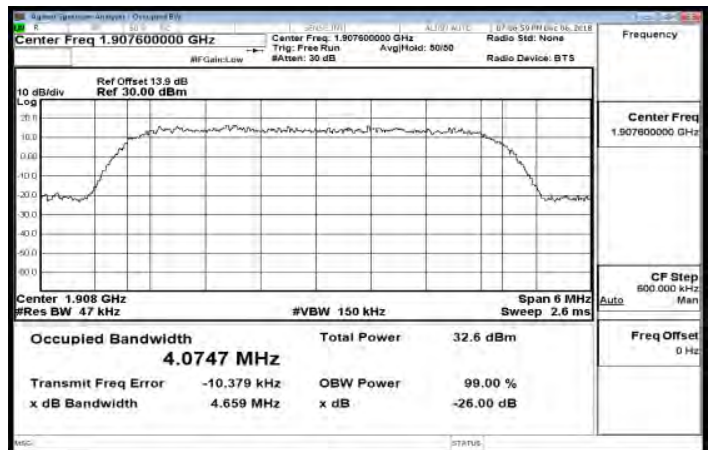
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## HSDPA\_B2\_HighCH9538-1907.6



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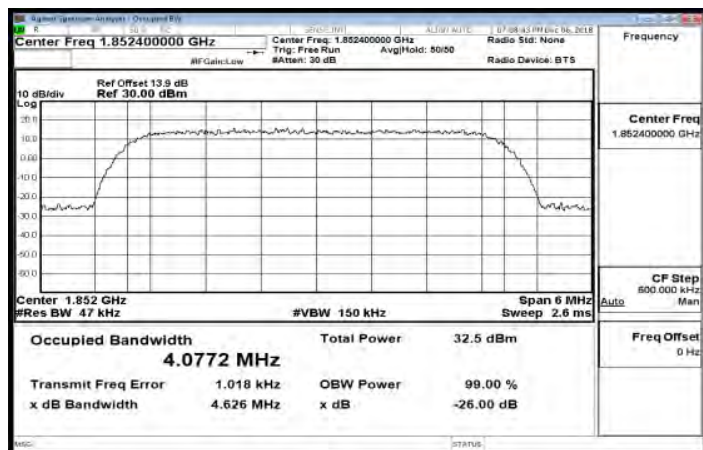
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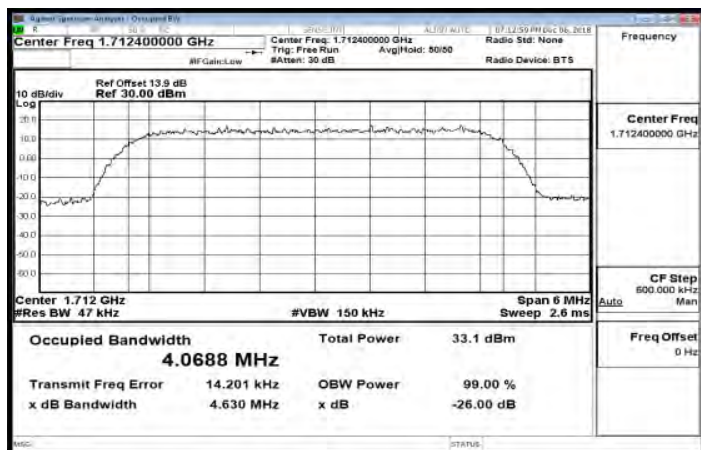
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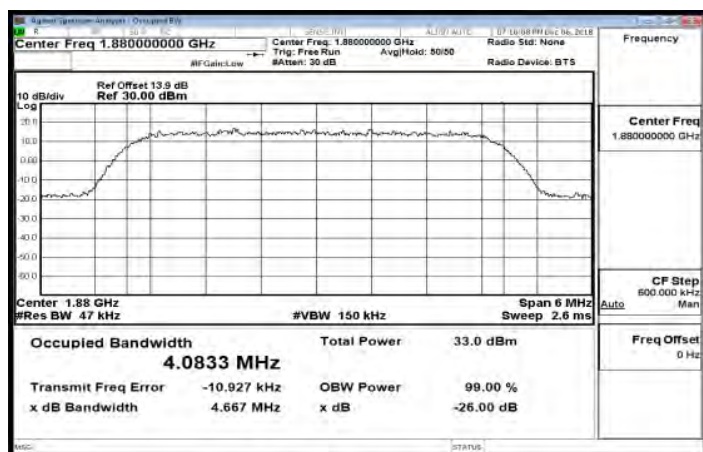
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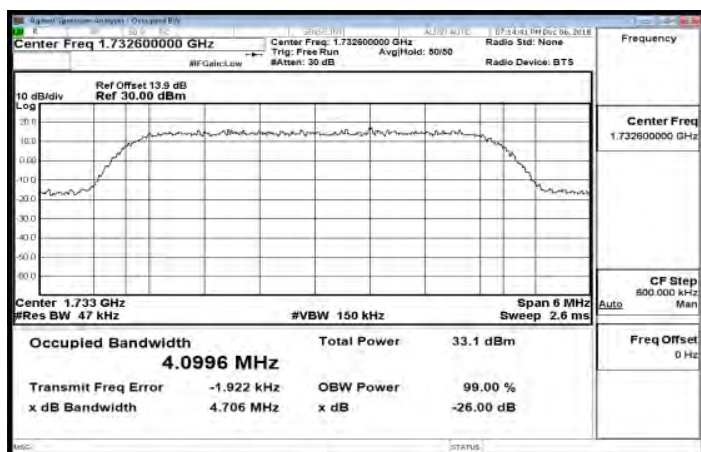
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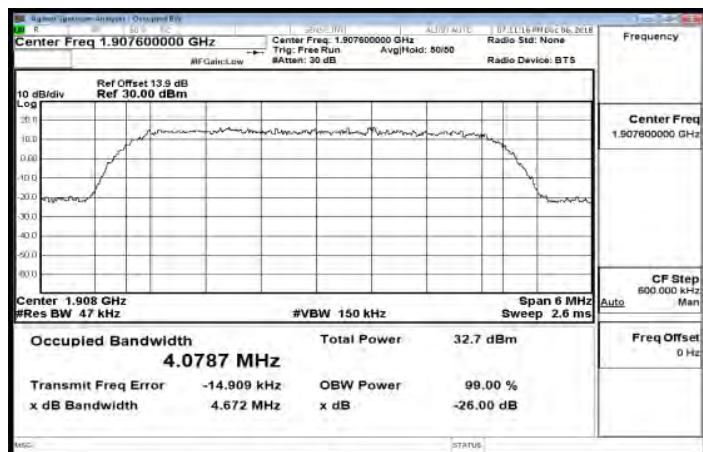
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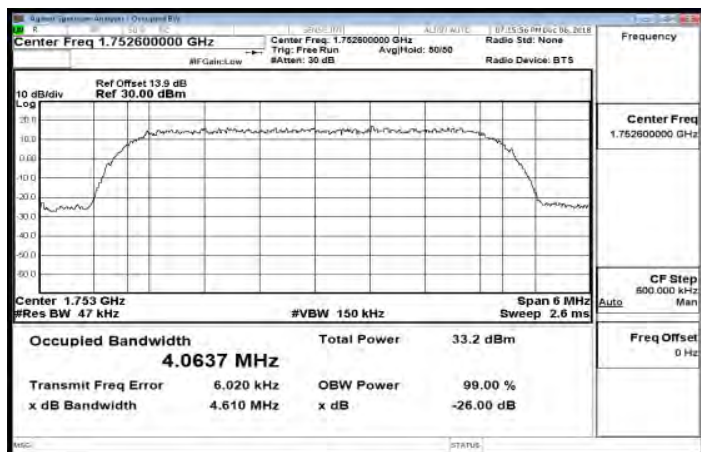
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## HSUPA\_B2\_HighCH9538-1907.6



## WCDMA\_B4\_HighCH1513-1752.6



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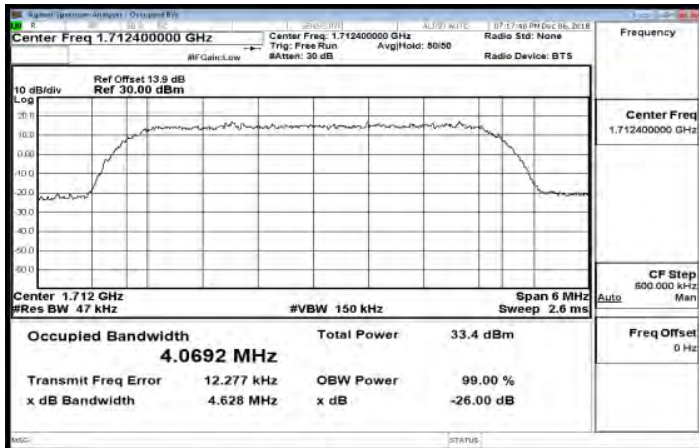
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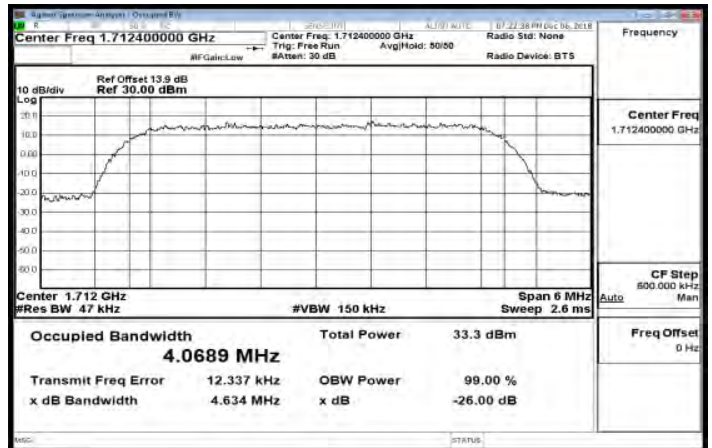
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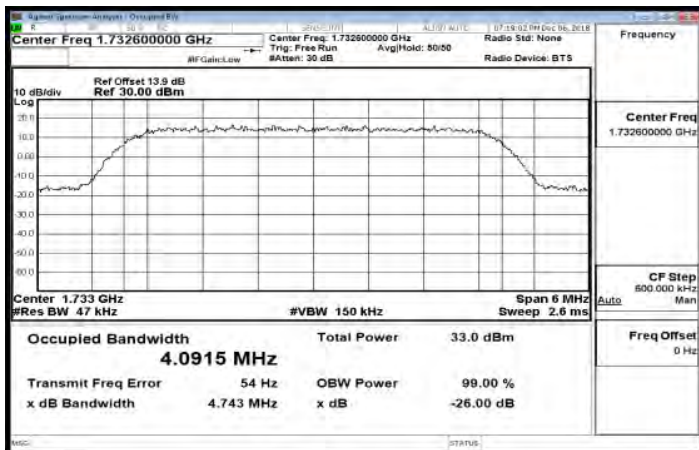
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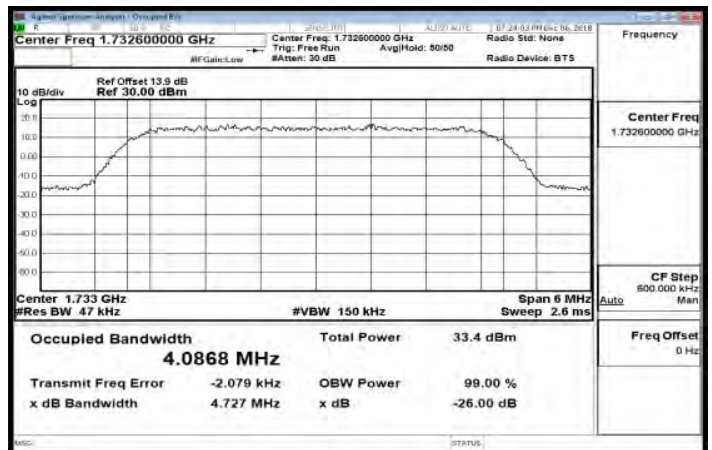
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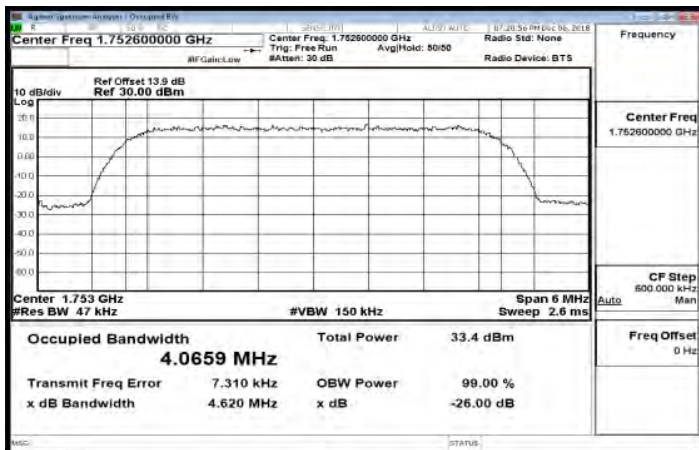
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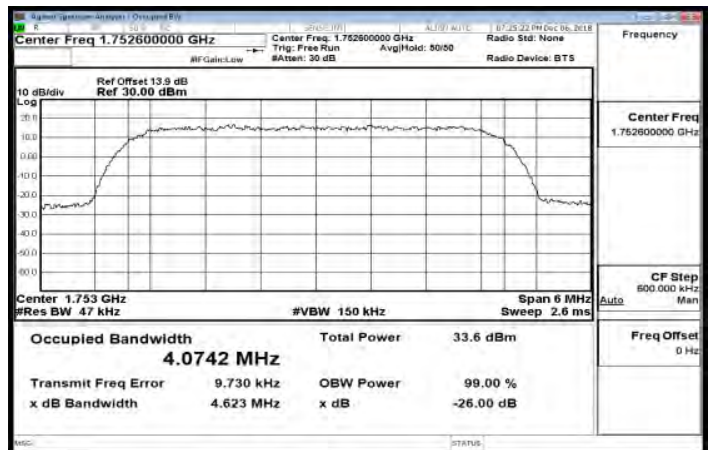
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### HSDPA\_B4\_HighCH1513-1752.6



### HSUPA\_B4\_HighCH1513-1752.6



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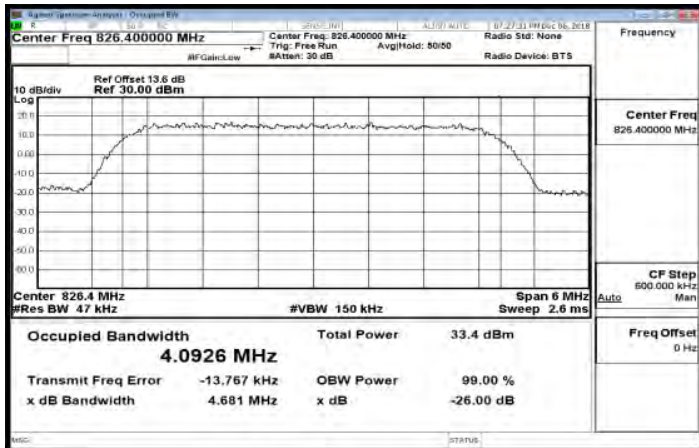
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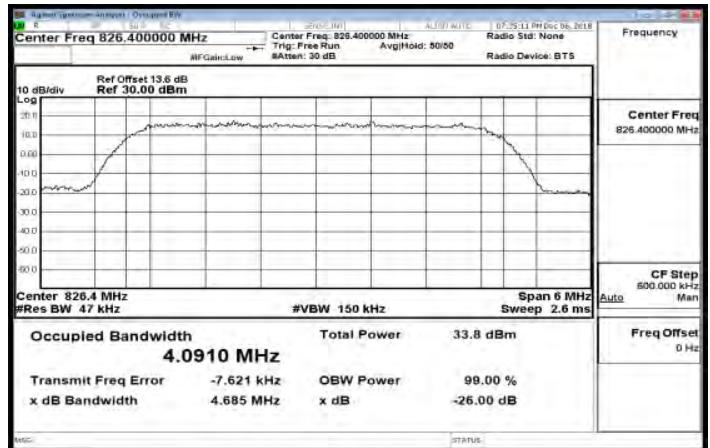
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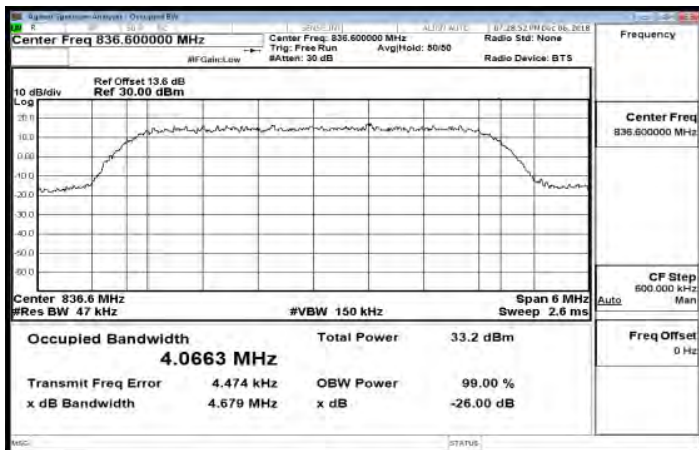
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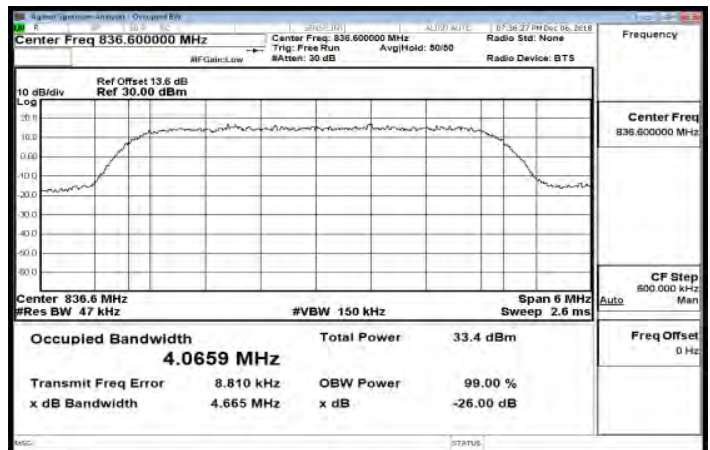
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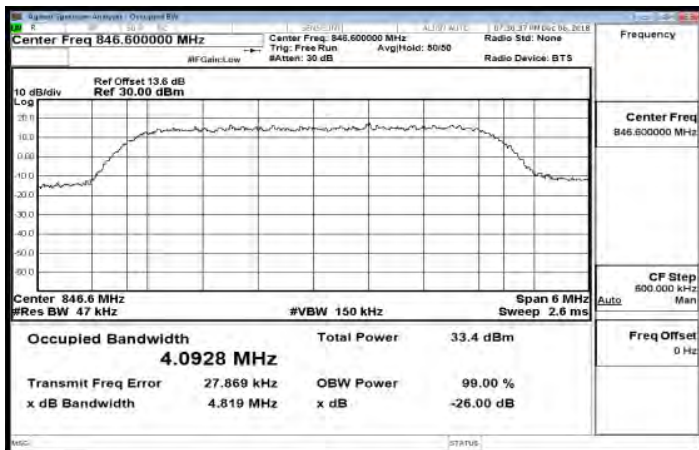
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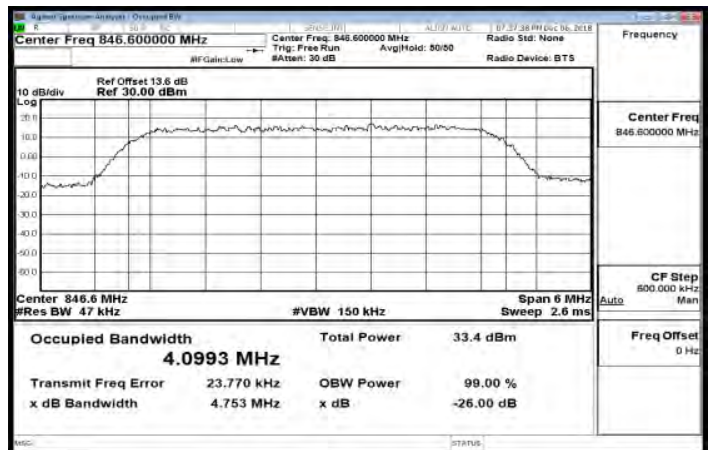
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### WCDMA\_B5\_HighCH4233-846.6



### HSDPA\_B5\_HighCH4233-846.6



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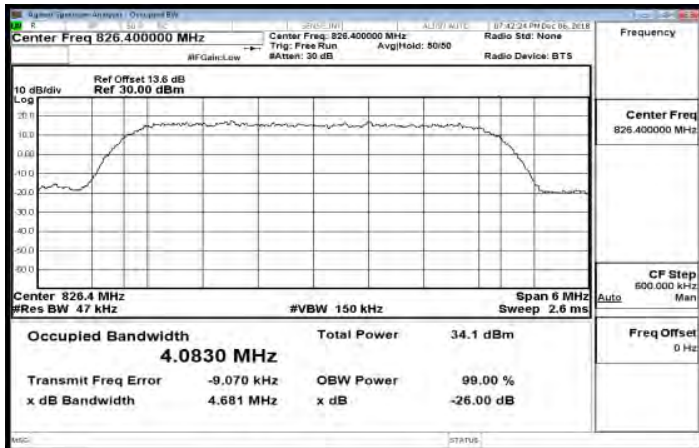
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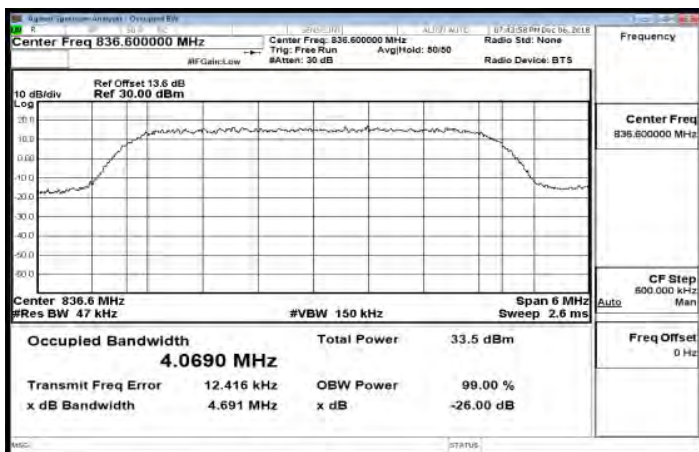
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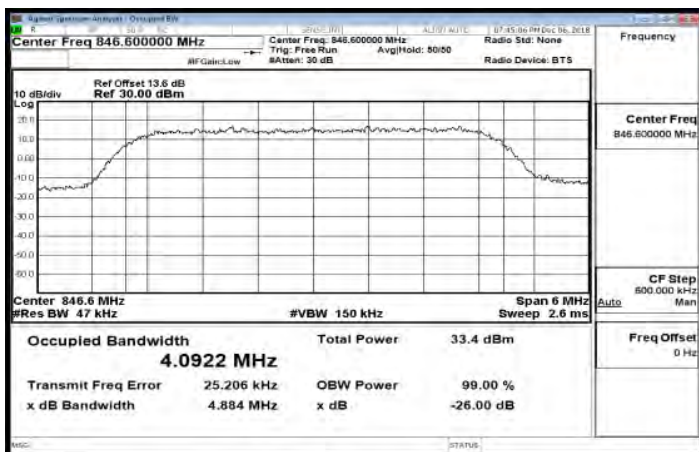
## HSUPA\_B5\_LowCH4132-826.4



## HSUPA\_B5\_MidCH4183-836.6



## HSUPA\_B5\_HighCH4233-846.6



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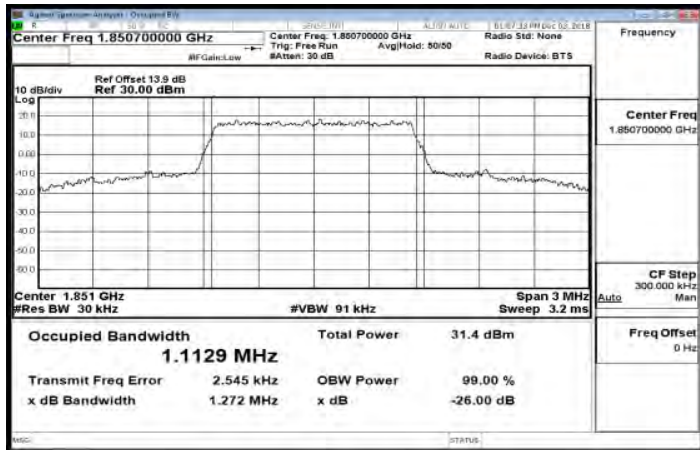
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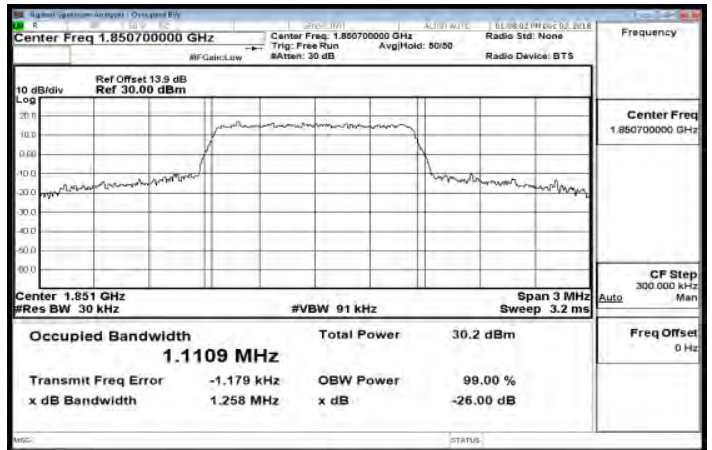
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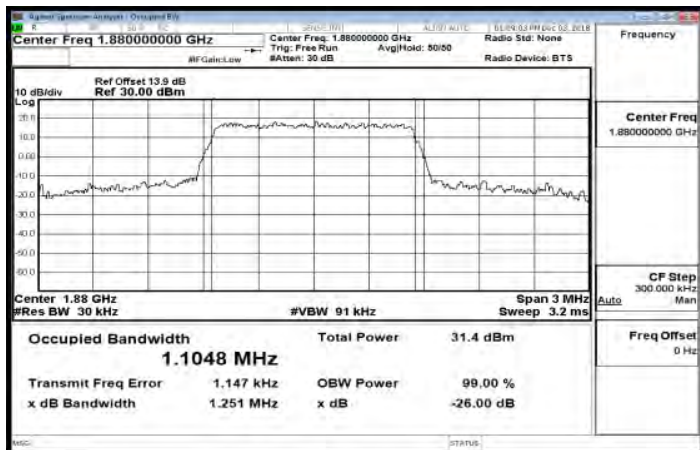
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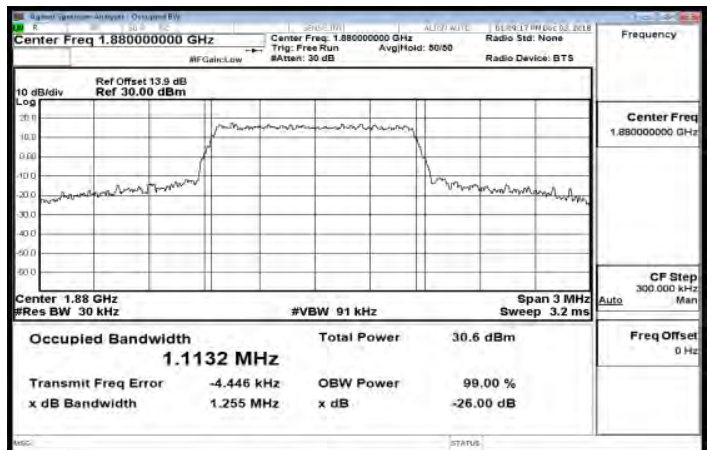
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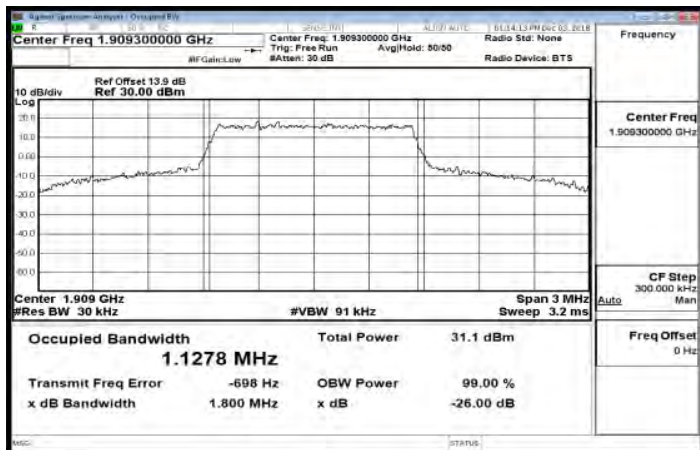
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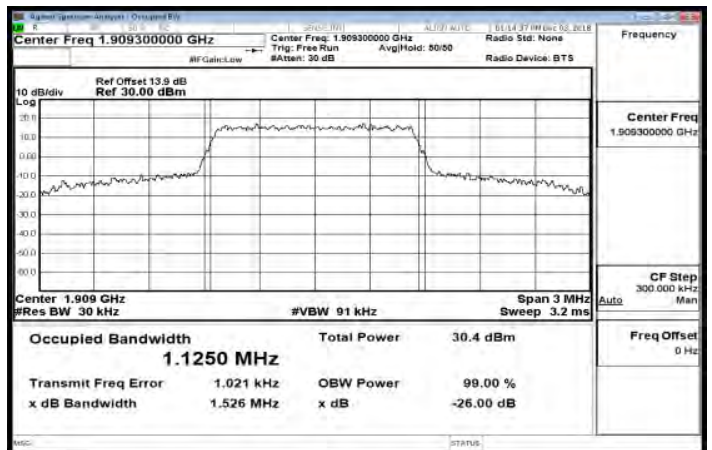
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Band2\_1\_4MHz\_QPSK\_6\_0\_HighCH19193-1909.3



Band2\_1\_4MHz\_16QAM\_6\_0\_HighCH19193-1909.3



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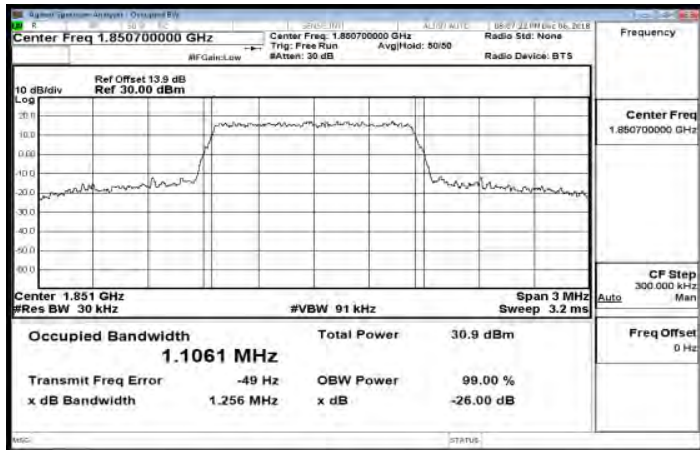
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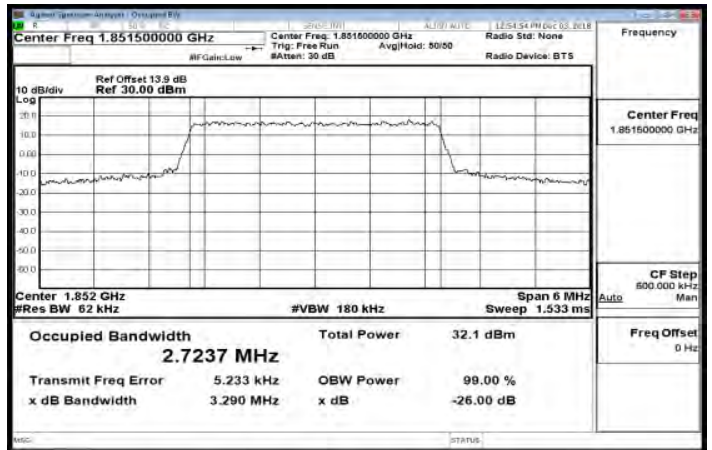
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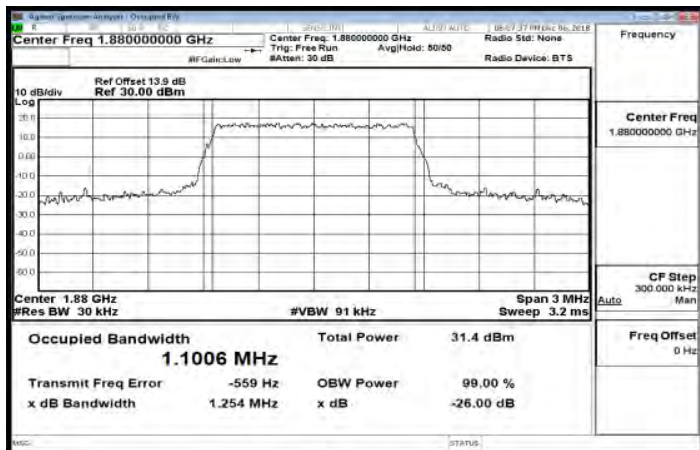
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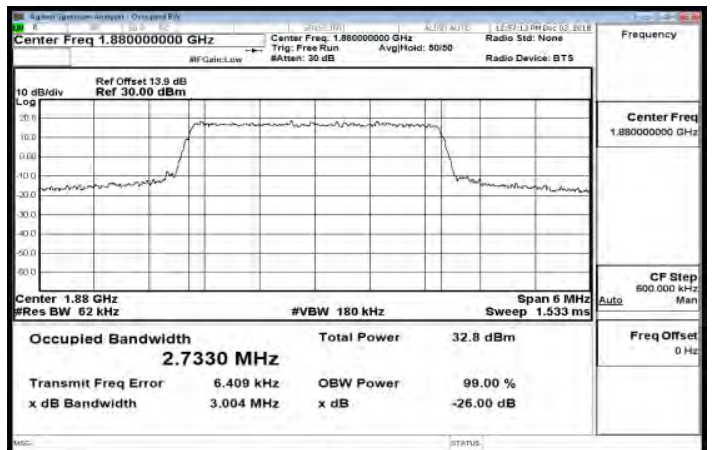
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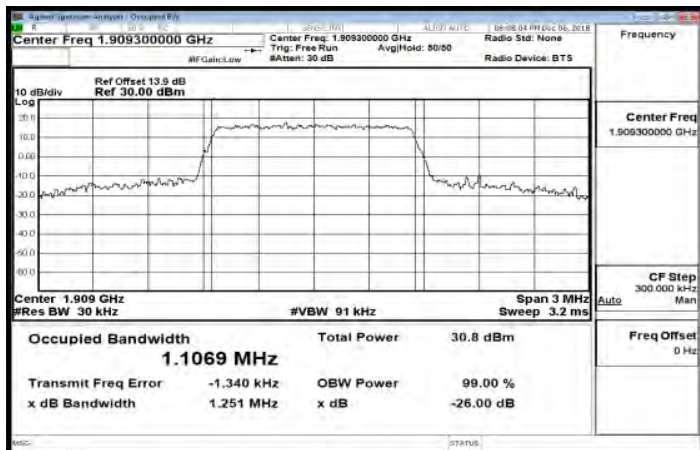
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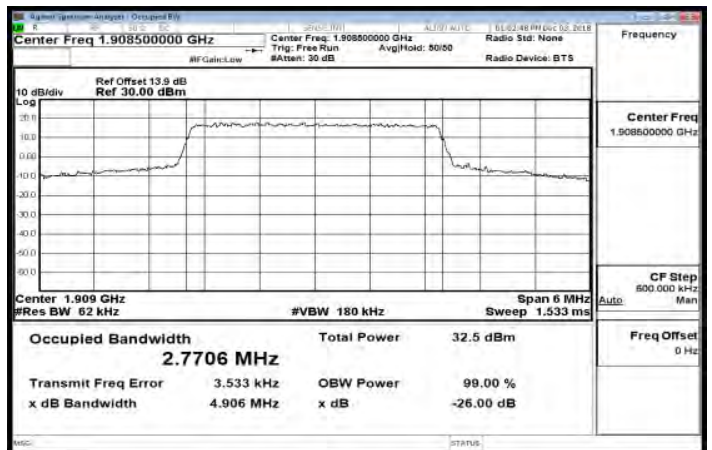
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Band2\_1\_4MHz\_64QAM\_6\_0\_HighCH19193-1909.3



Band2\_3MHz\_QPSK\_15\_0\_HighCH19185-1908.5



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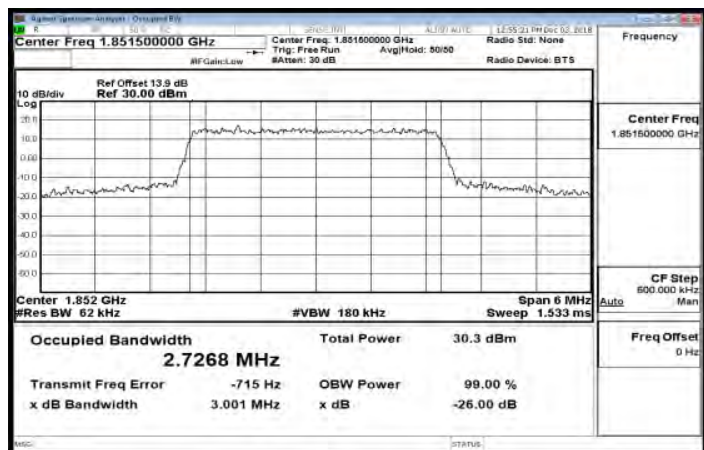
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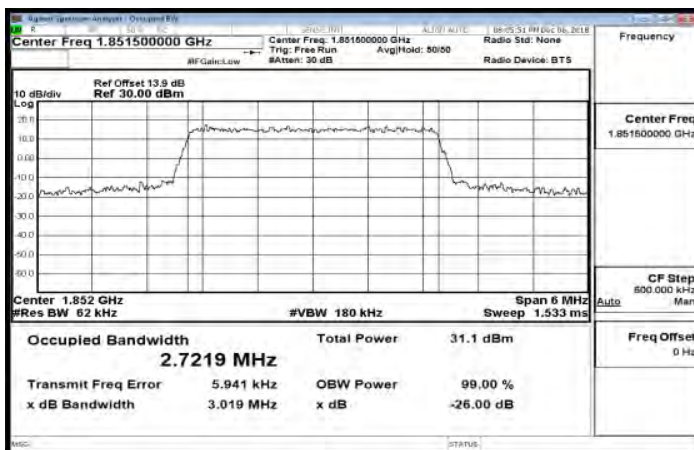
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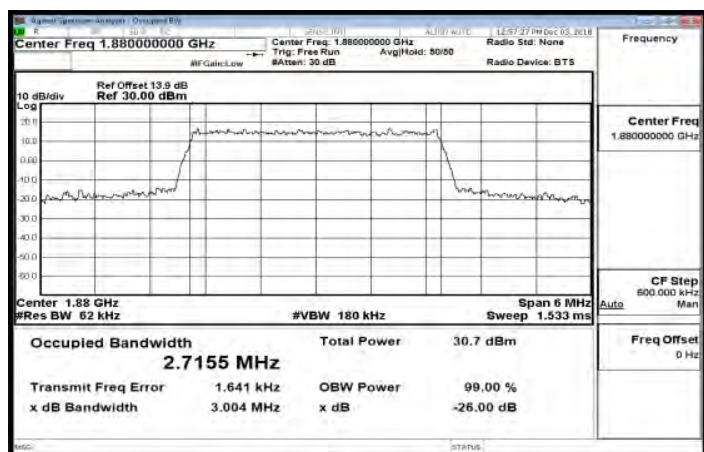
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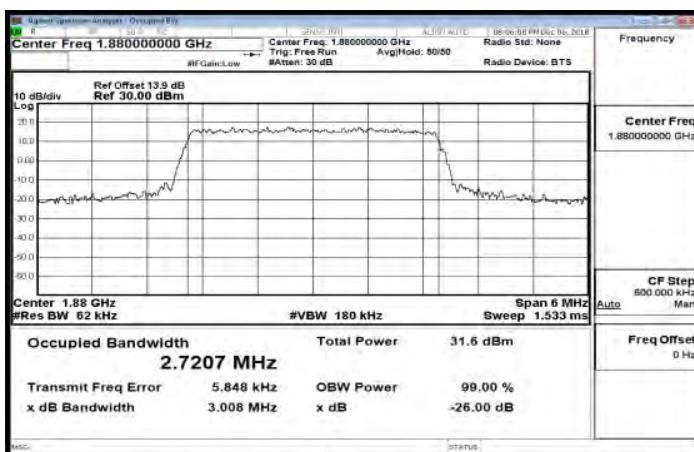
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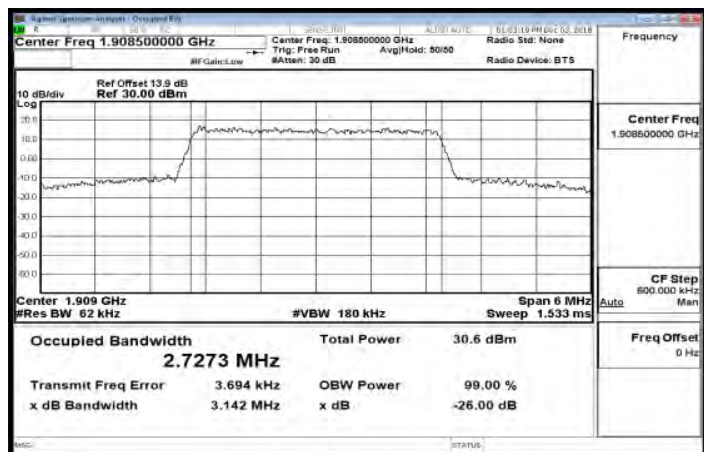
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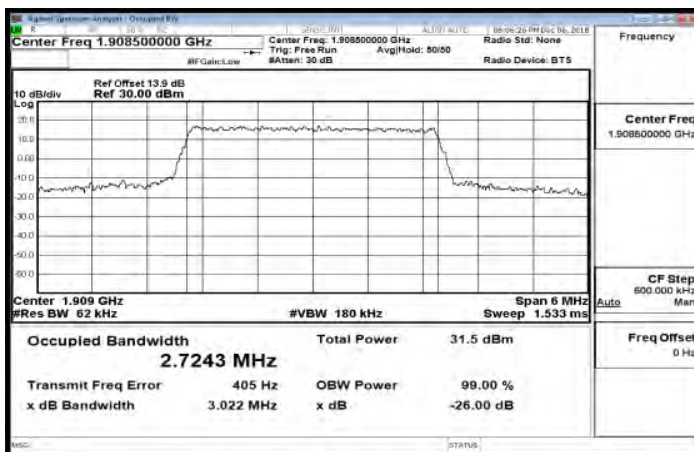
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Band2\_3MHz\_16QAM\_15\_0\_HighCH19185-1908.5



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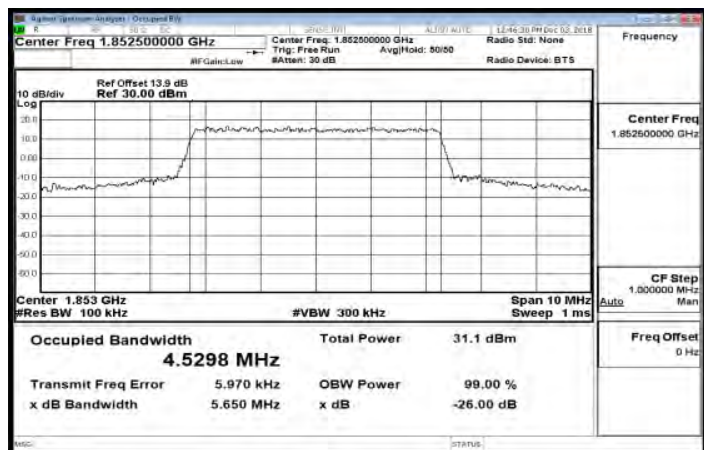
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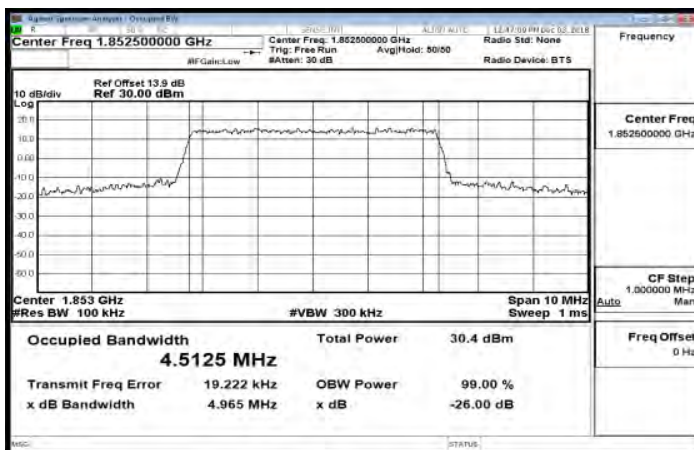
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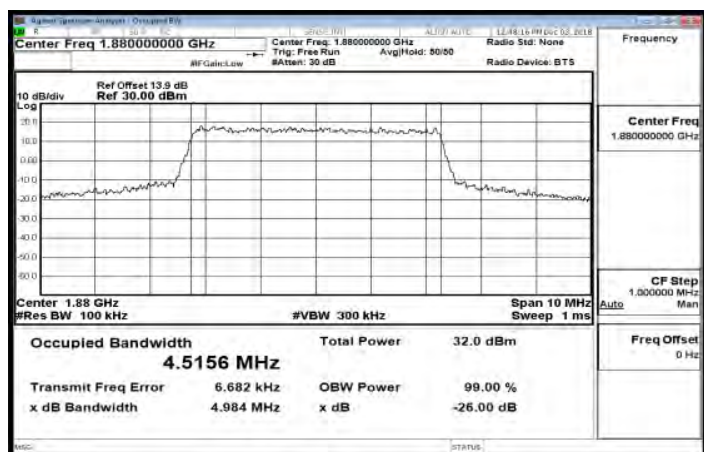
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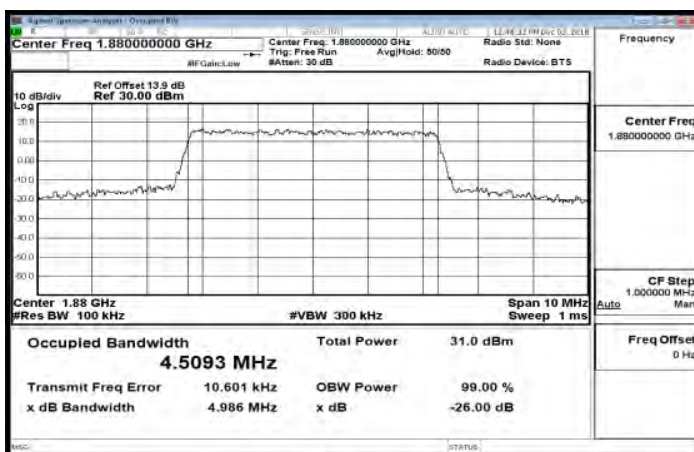
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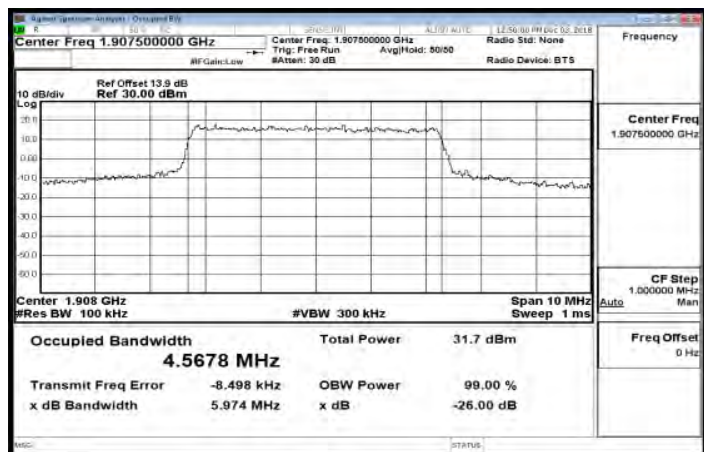
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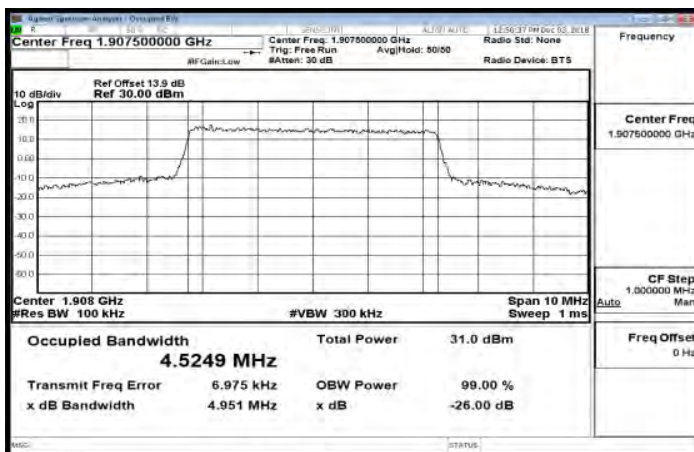
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Band2\_5MHz\_QPSK\_25\_0\_HighCH19175-1907.5



Band2\_5MHz\_16QAM\_25\_0\_HighCH19175-1907.5



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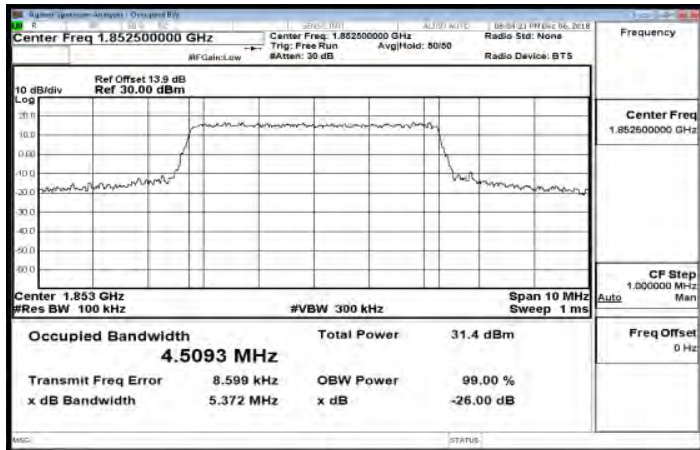
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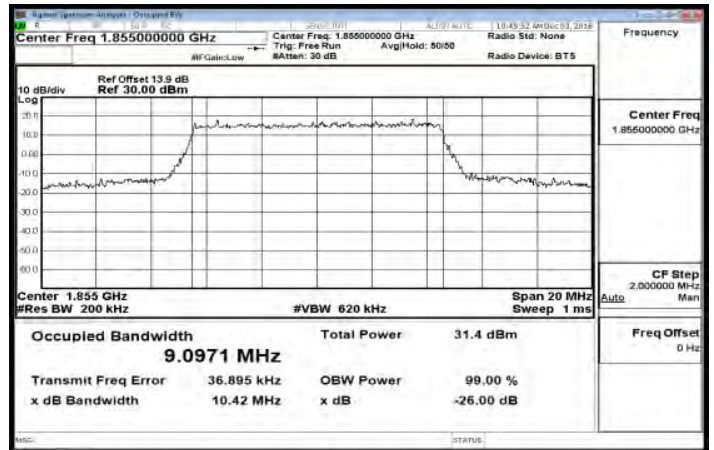
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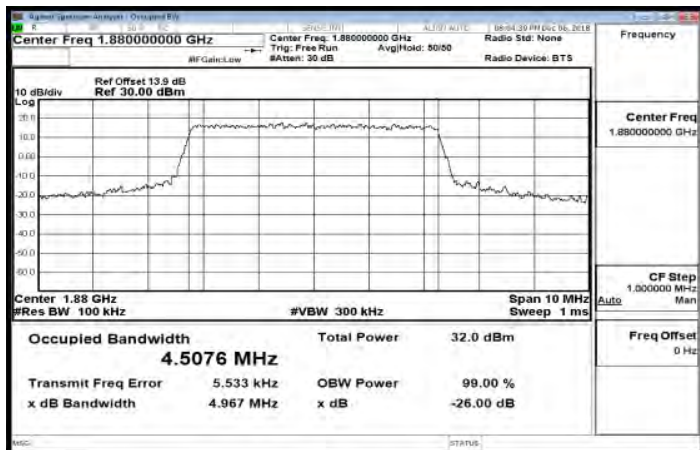
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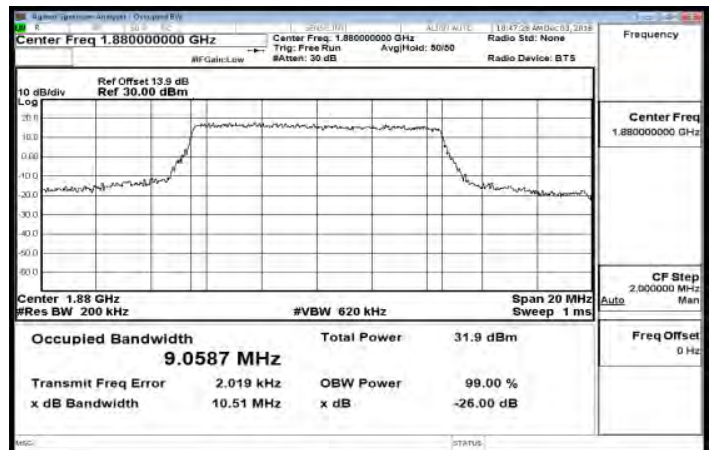
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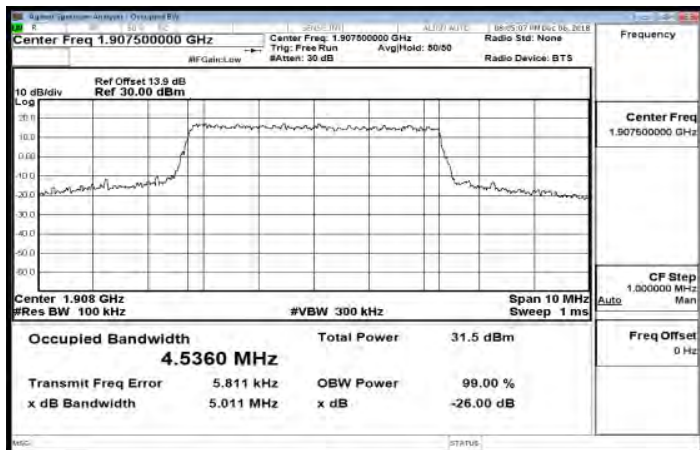
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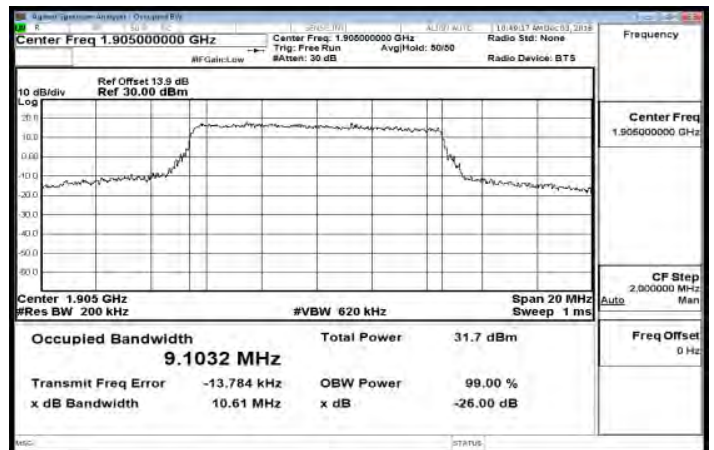
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Band2\_5MHz\_64QAM\_25\_0\_HighCH19175-1907.5



Band2\_10MHz\_QPSK\_50\_0\_HighCH19150-1905



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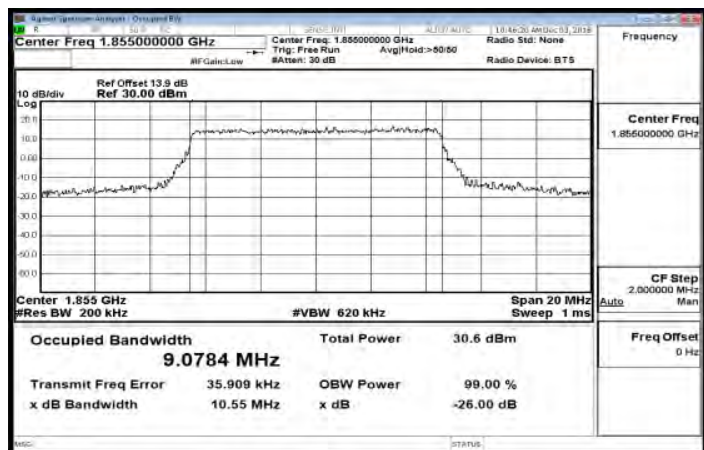
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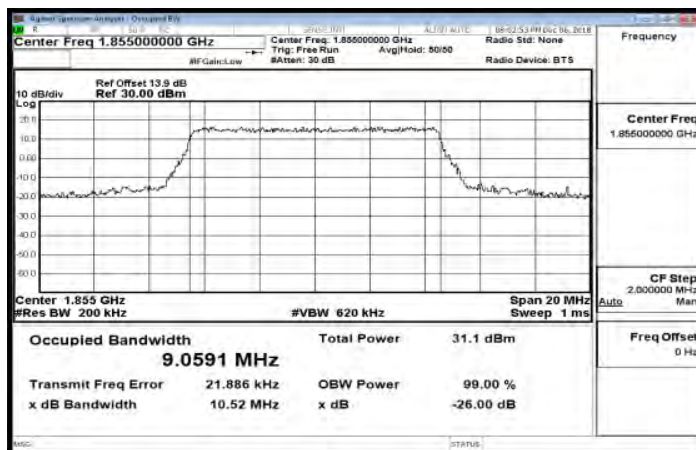
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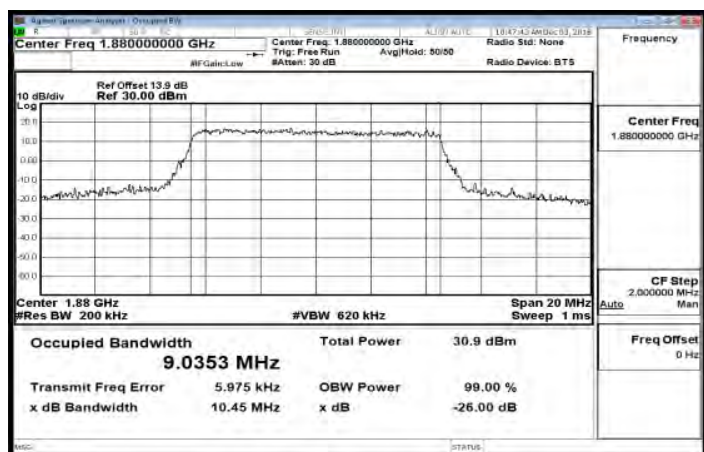
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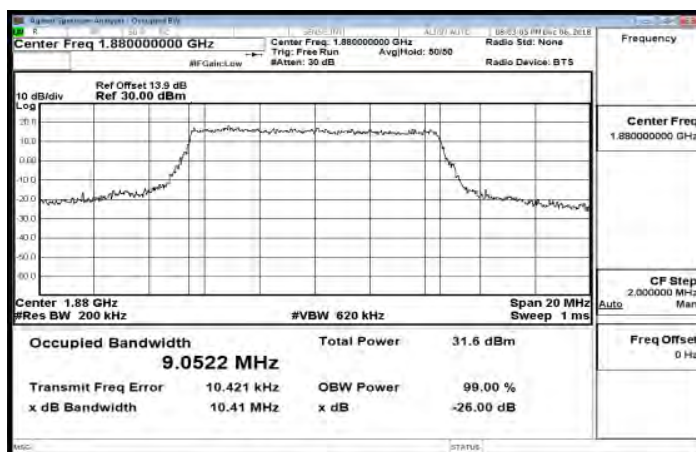
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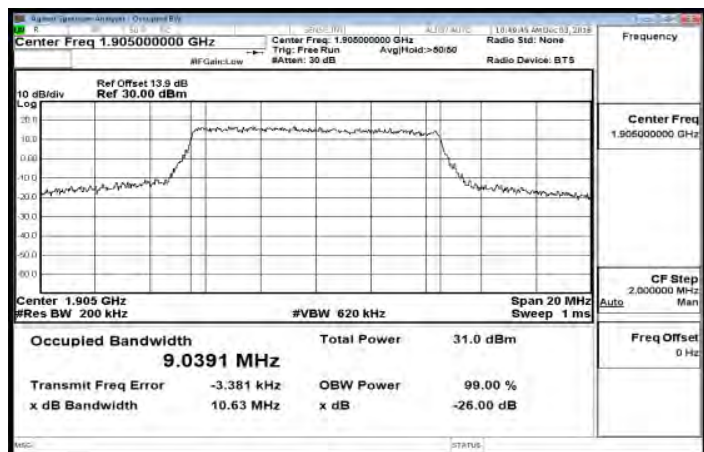
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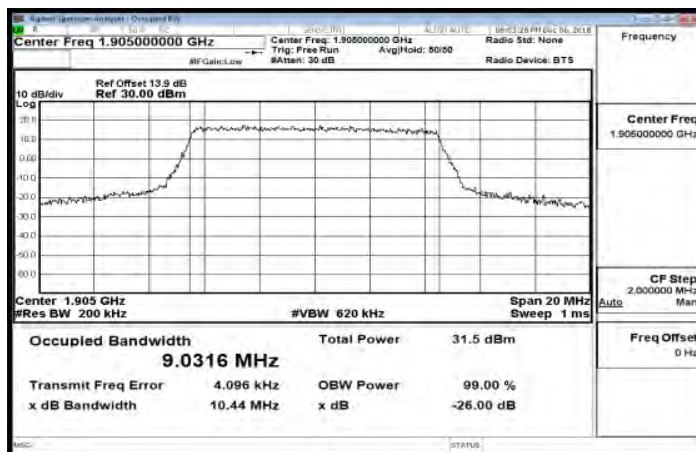
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Band2\_10MHz\_16QAM\_50\_0\_HighCH19150-1905



Band2\_10MHz\_64QAM\_50\_0\_HighCH19150-1905



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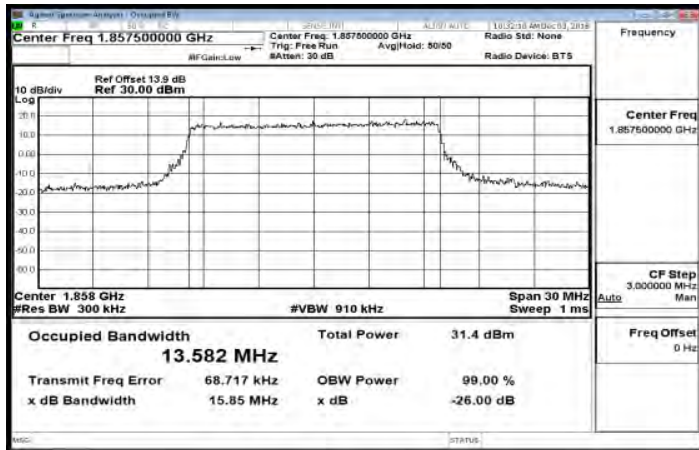
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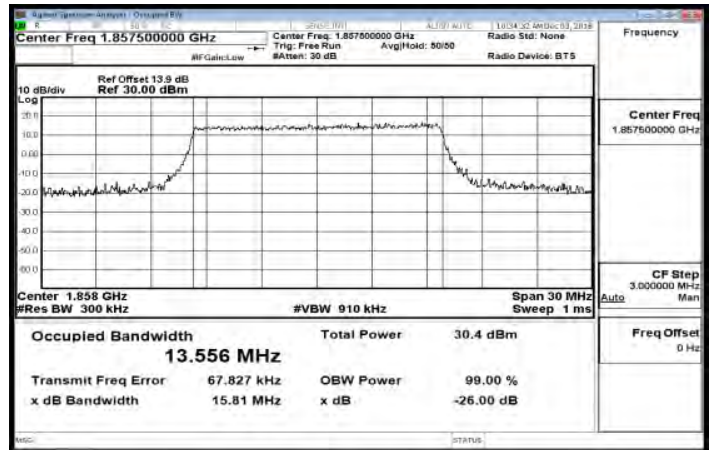
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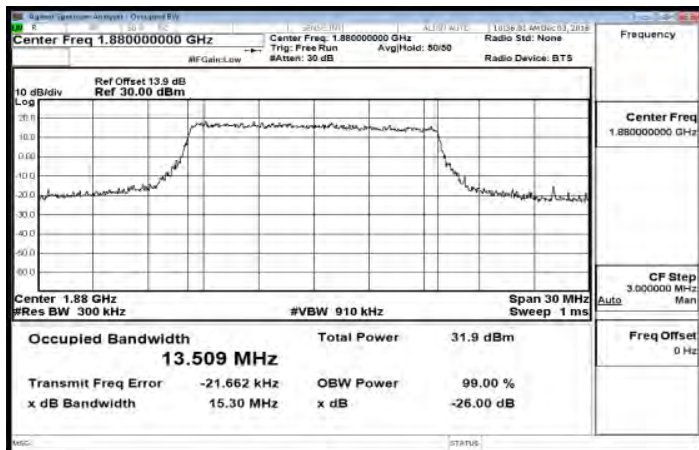
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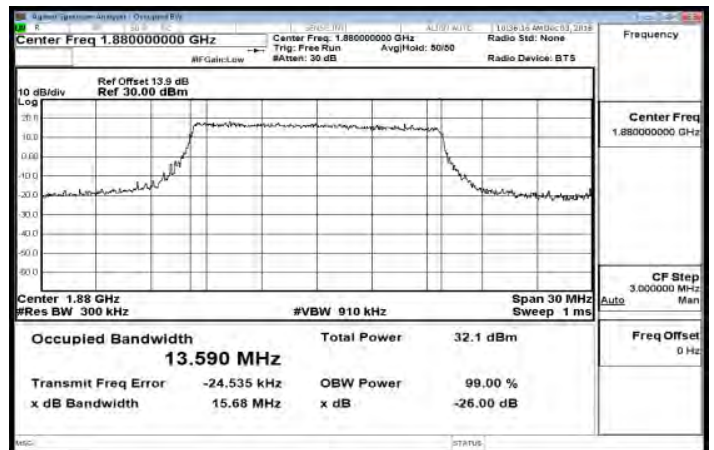
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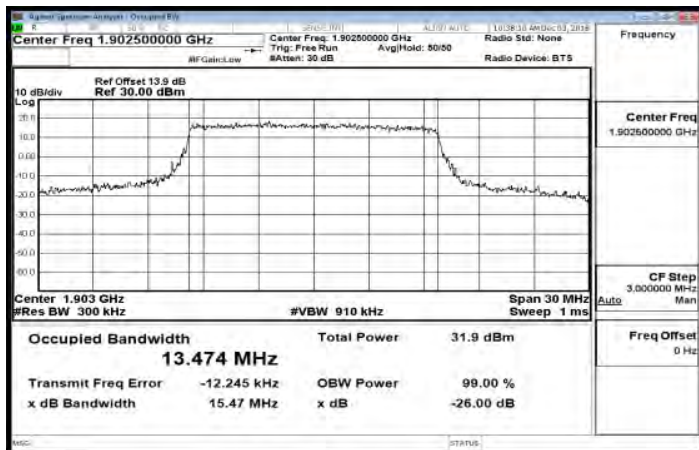
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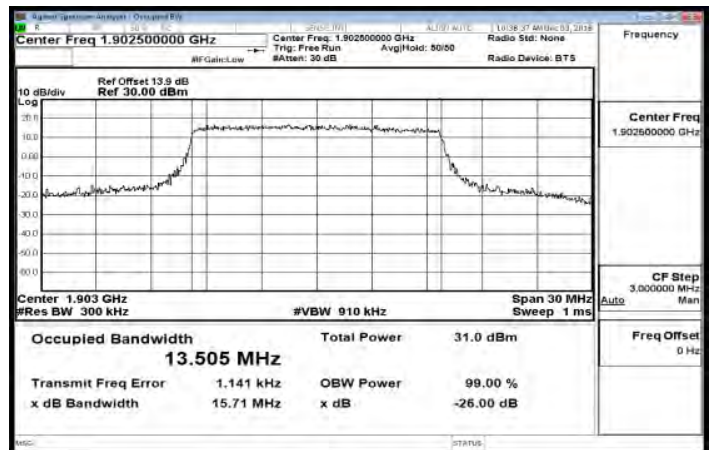
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Band2\_15MHz\_QPSK\_75\_0\_HighCH19125-1902.5



Band2\_15MHz\_16QAM\_75\_0\_HighCH19125-1902.5



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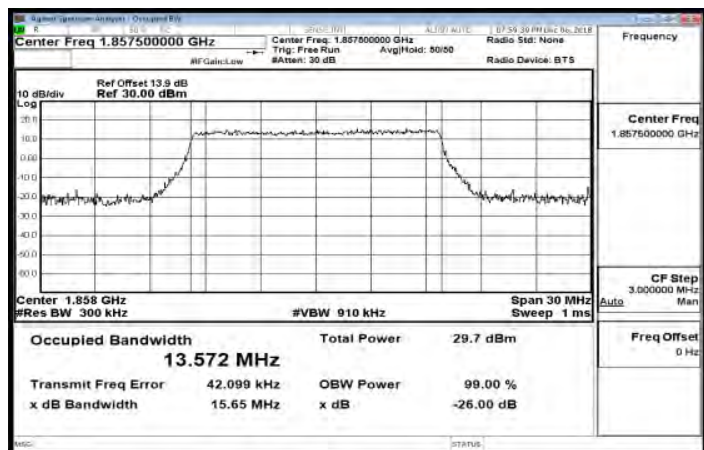
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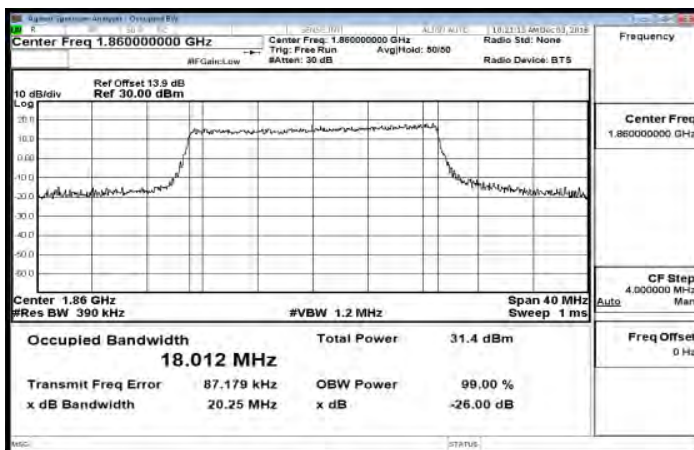
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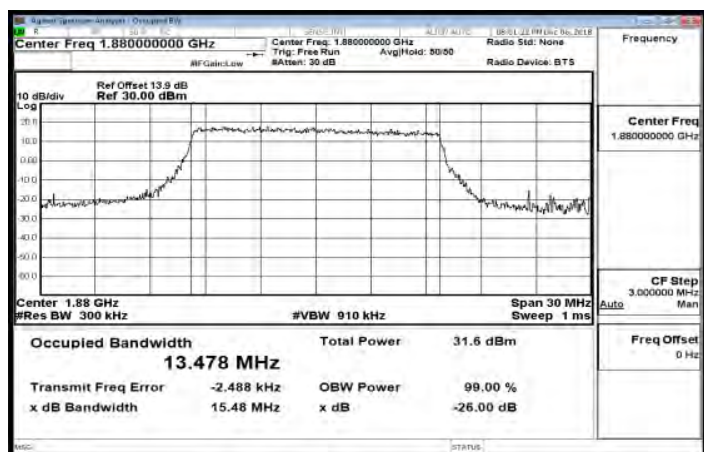
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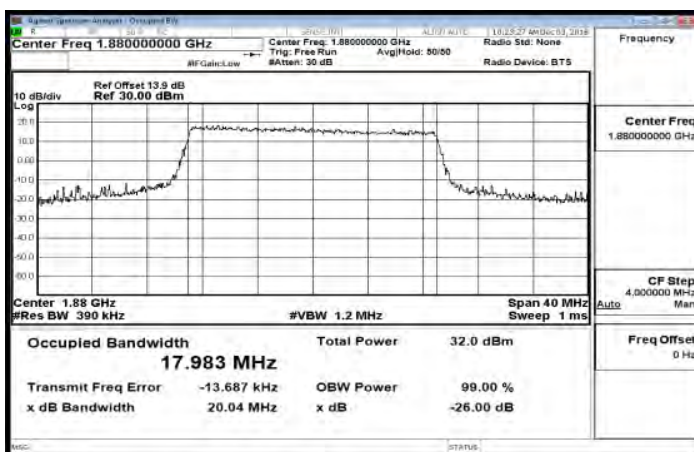
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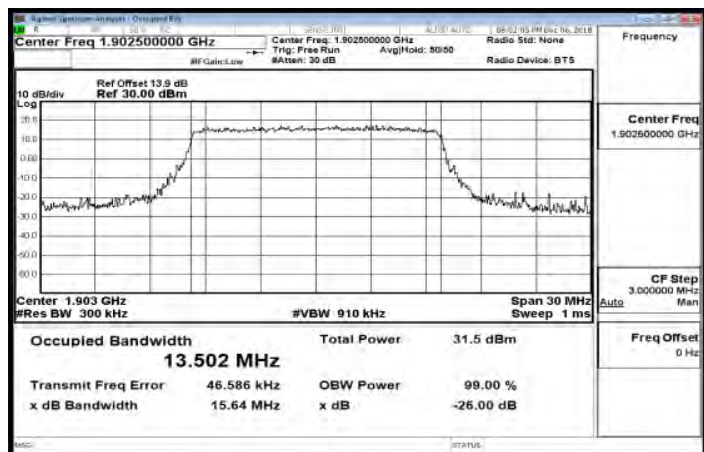
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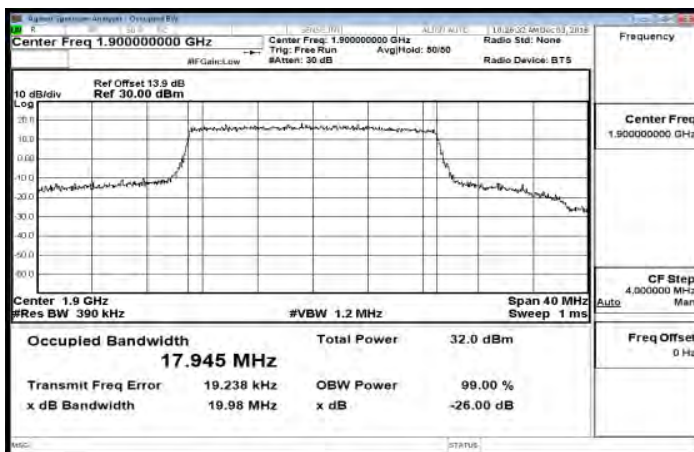
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Band2\_15MHz\_64QAM\_75\_0\_HighCH19125-1902.5



Band2\_20MHz\_QPSK\_100\_0\_HighCH19100-1900



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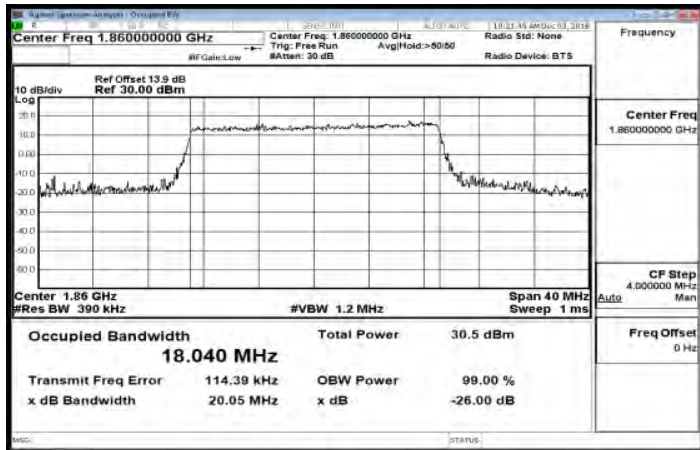
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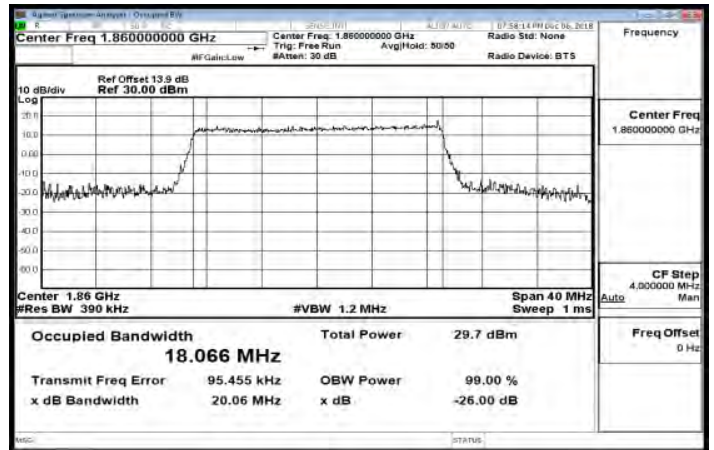
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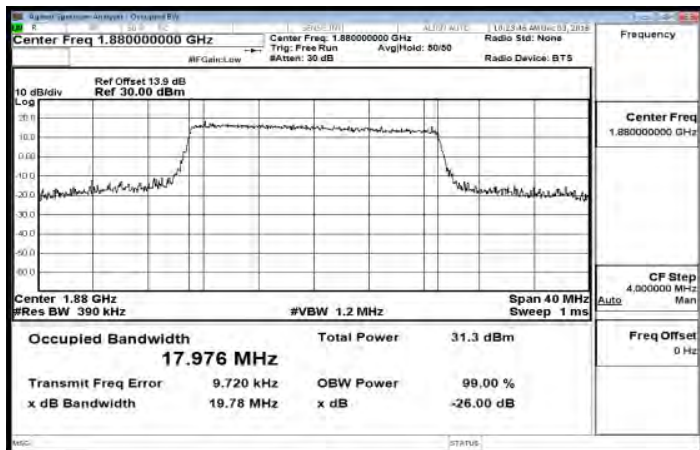
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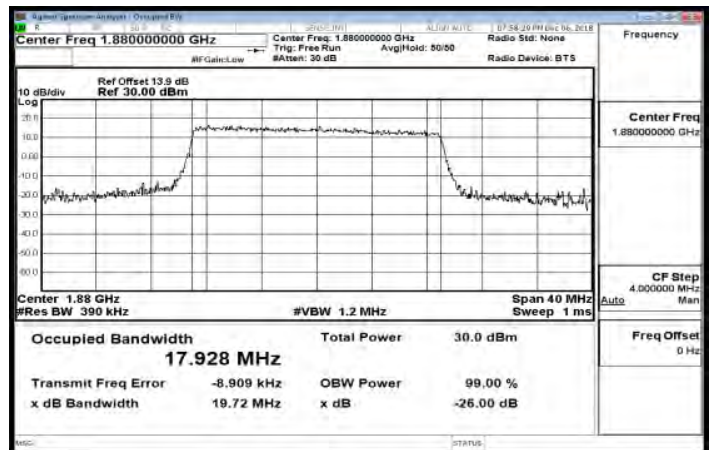
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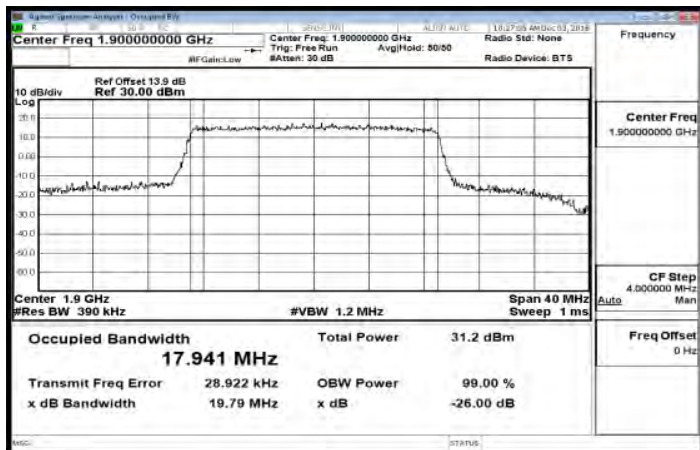
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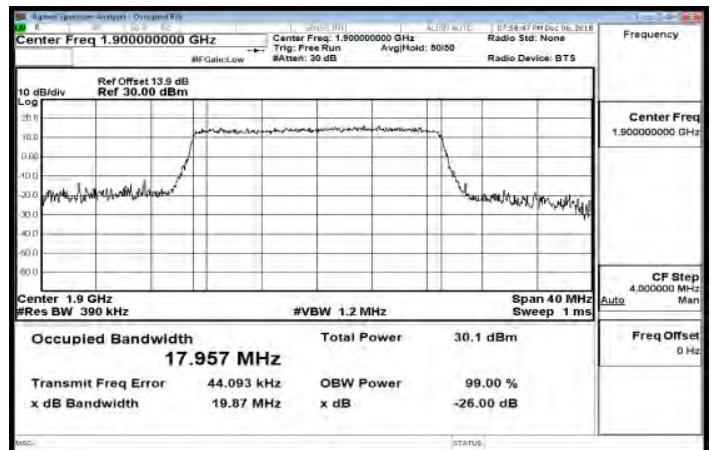
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Band2\_20MHz\_16QAM\_100\_0\_HighCH19100-1900



Band2\_20MHz\_64QAM\_100\_0\_HighCH19100-1900



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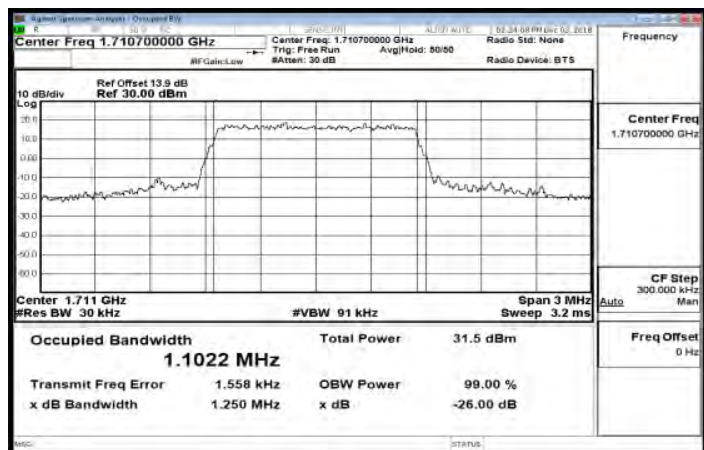
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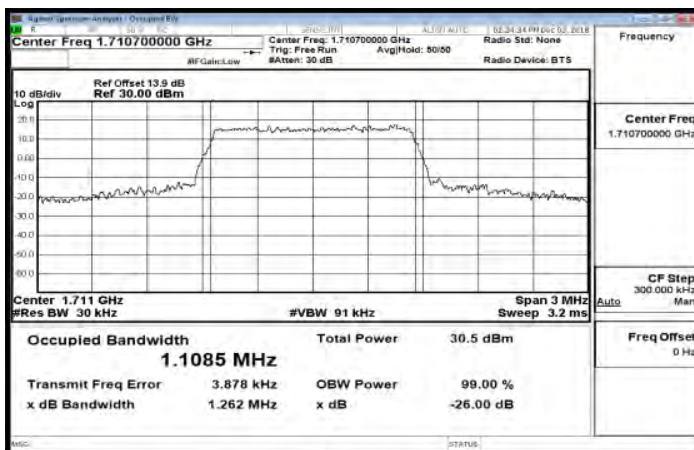
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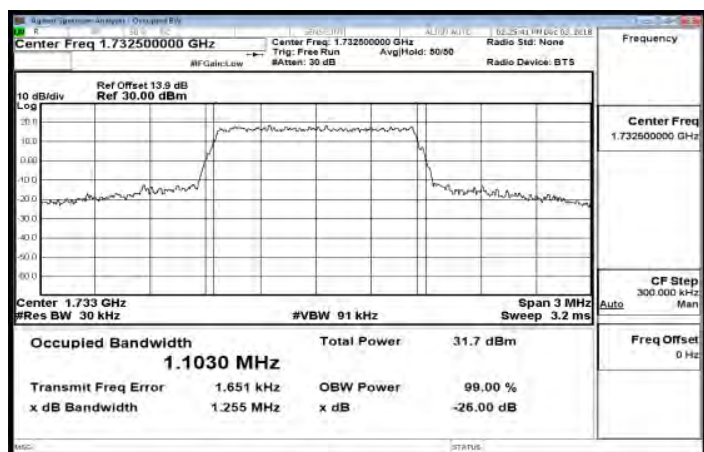
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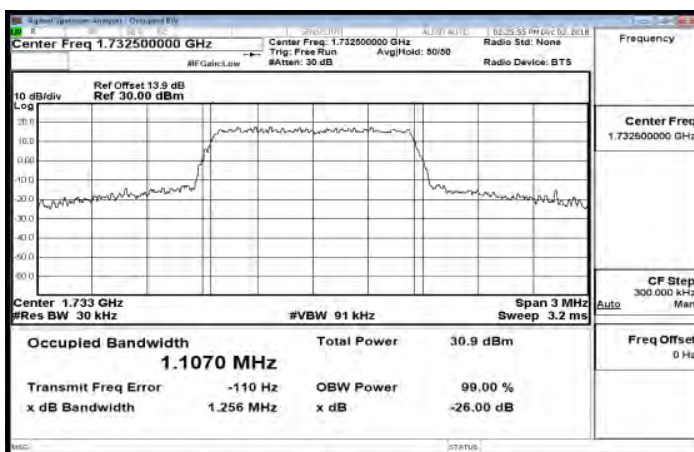
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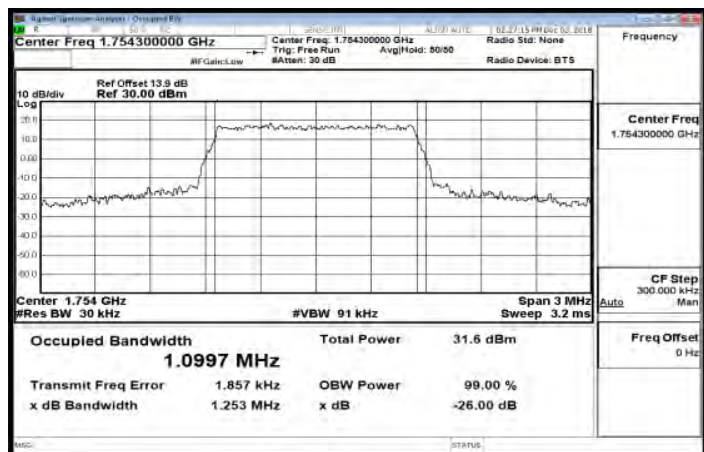
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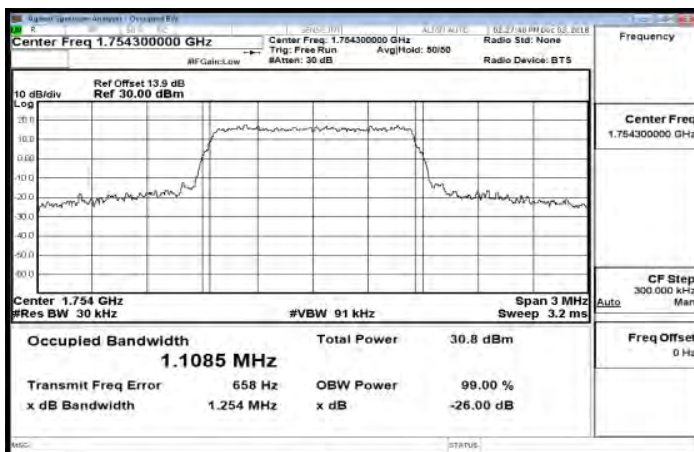
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Band4\_1\_4MHz\_QPSK\_6\_0\_HighCH20393-1754.3



Band4\_1\_4MHz\_16QAM\_6\_0\_HighCH20393-1754.3



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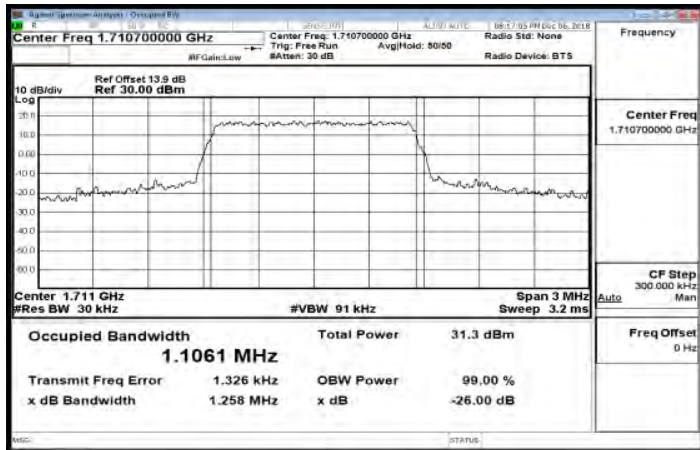
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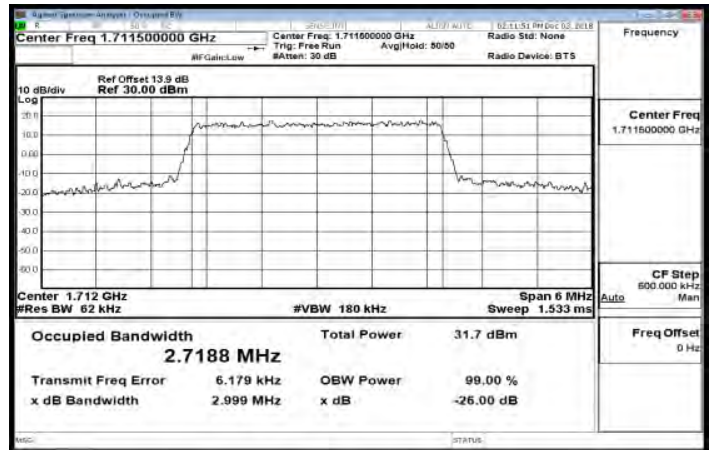
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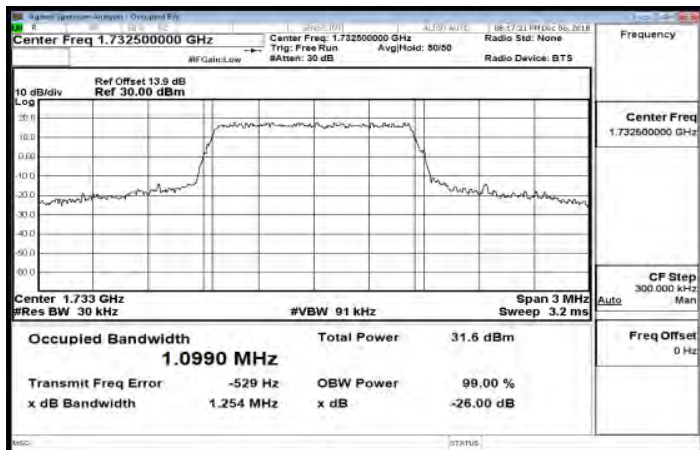
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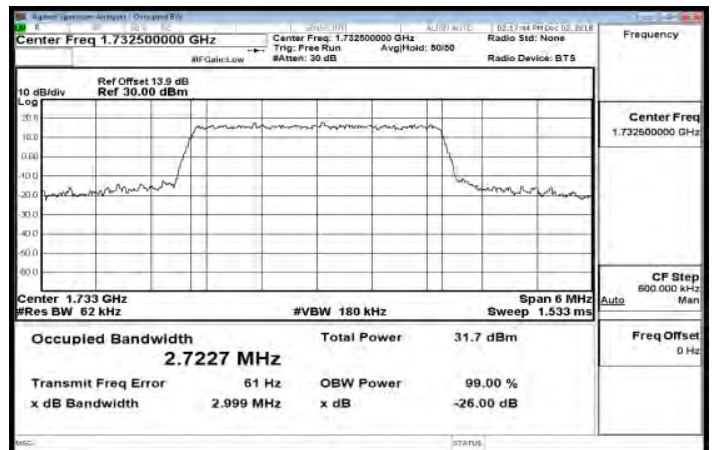
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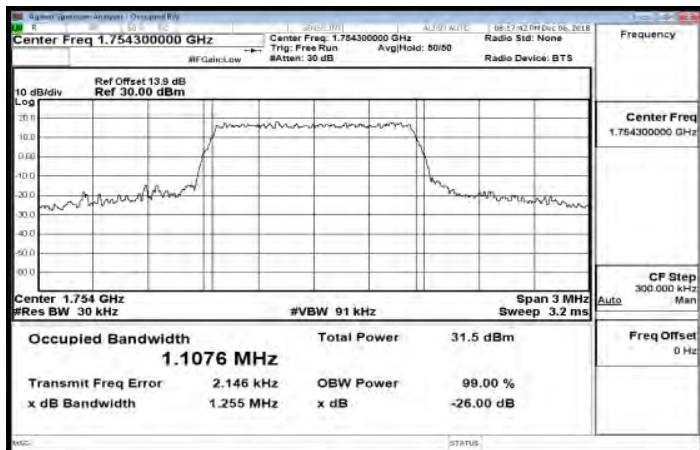
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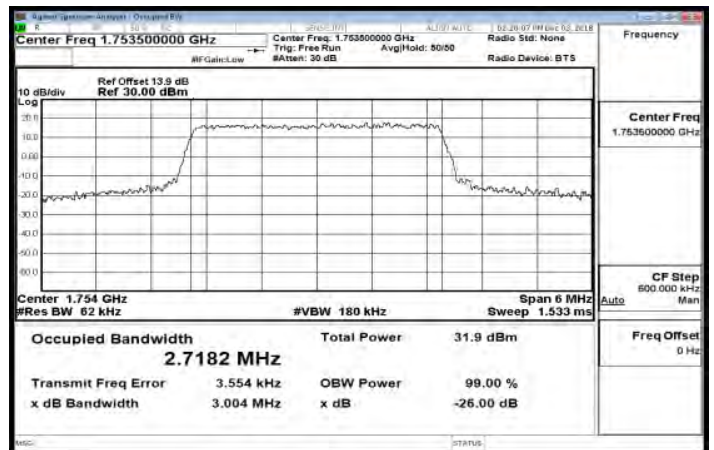
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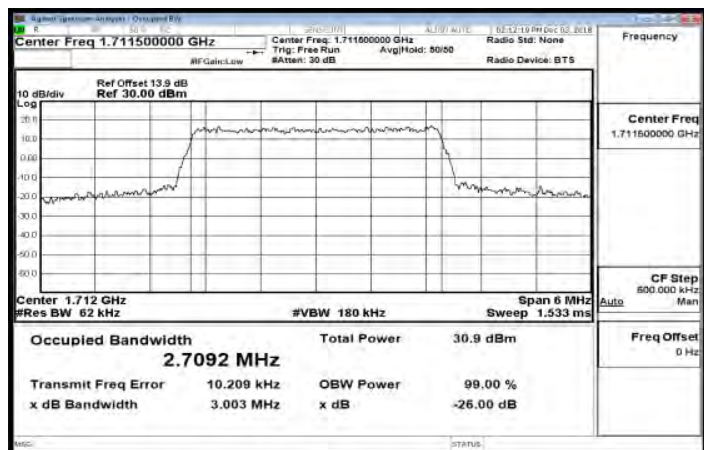
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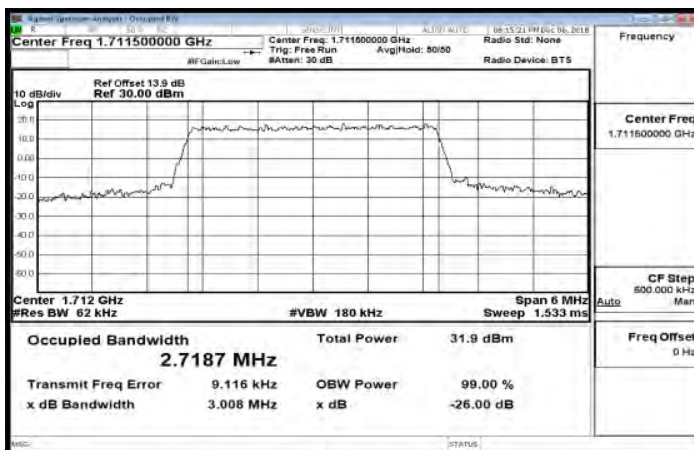
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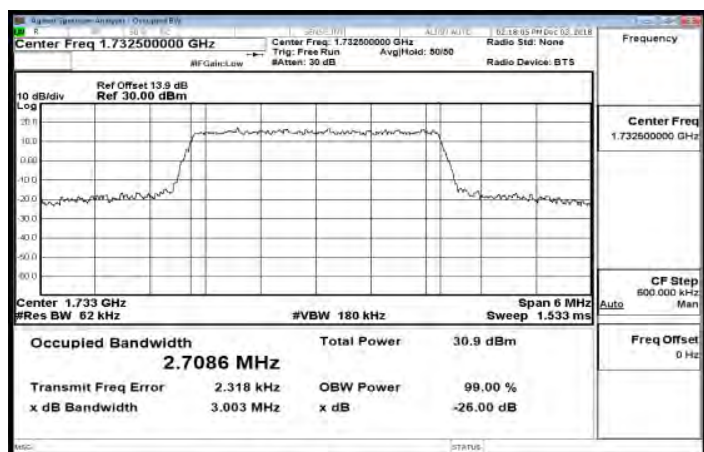
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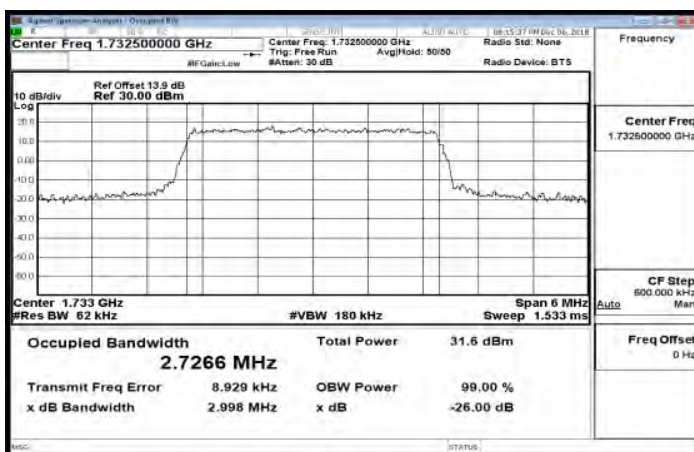
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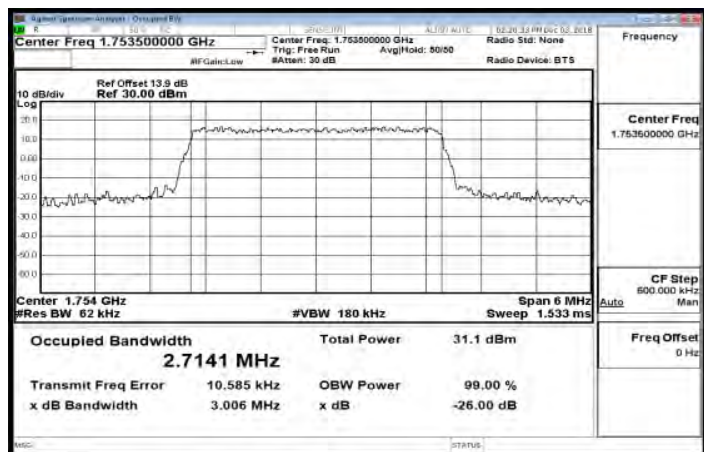
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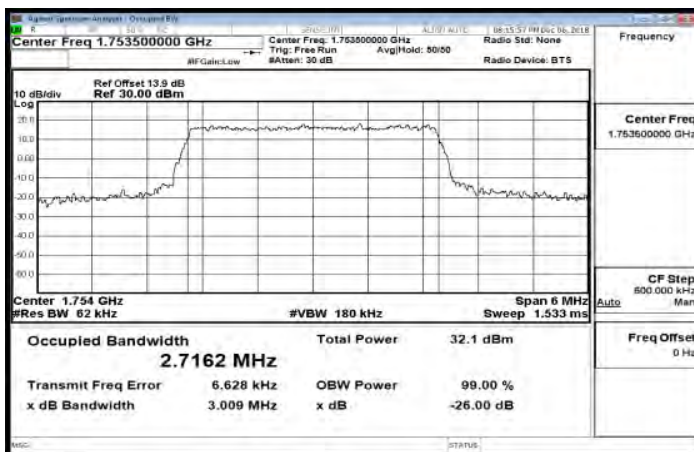
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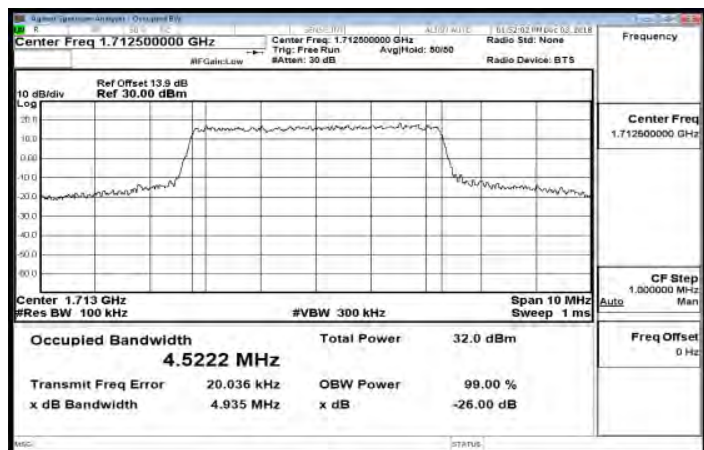
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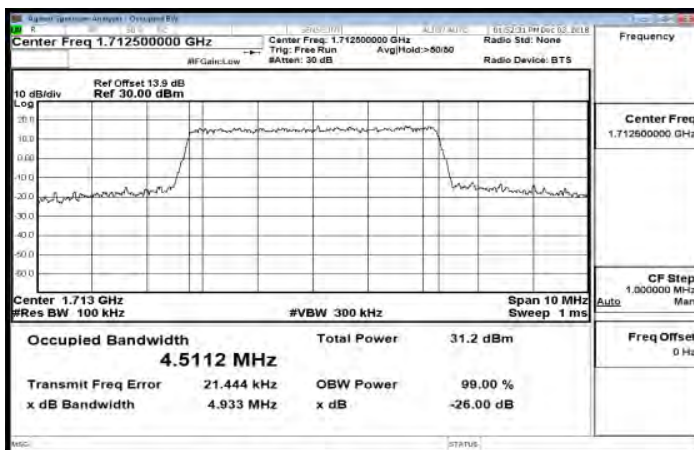
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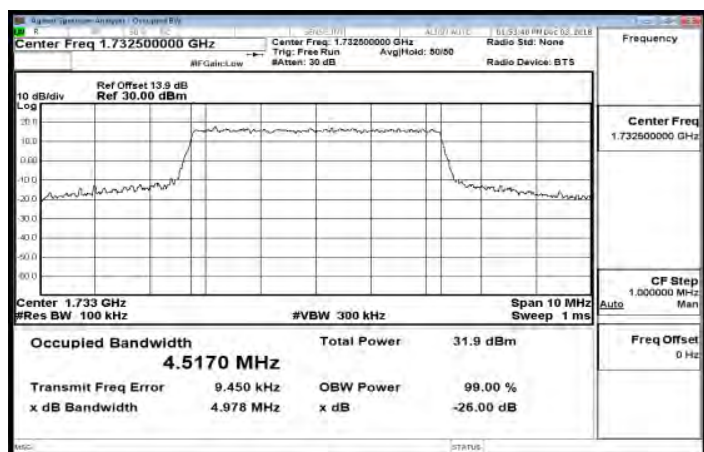
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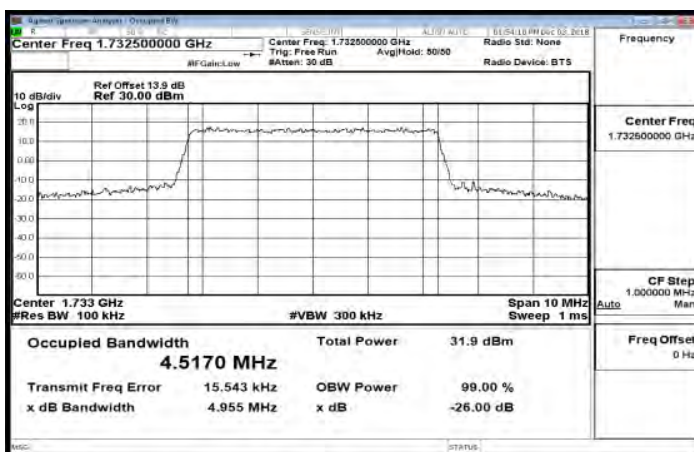
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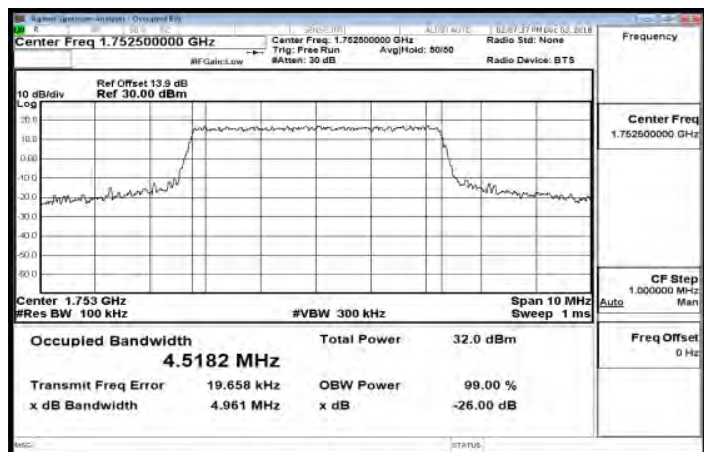
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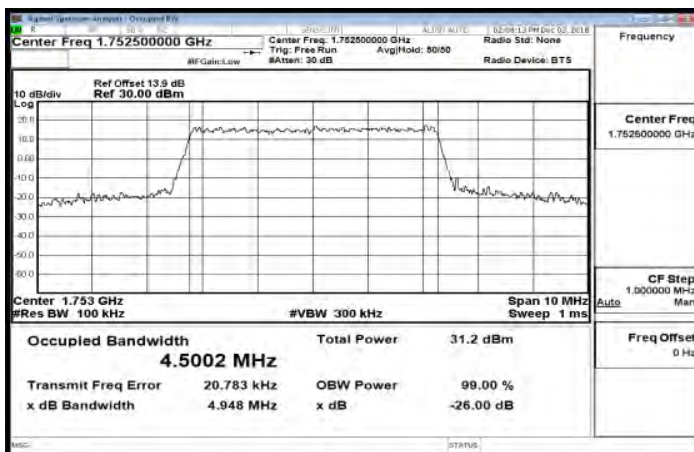
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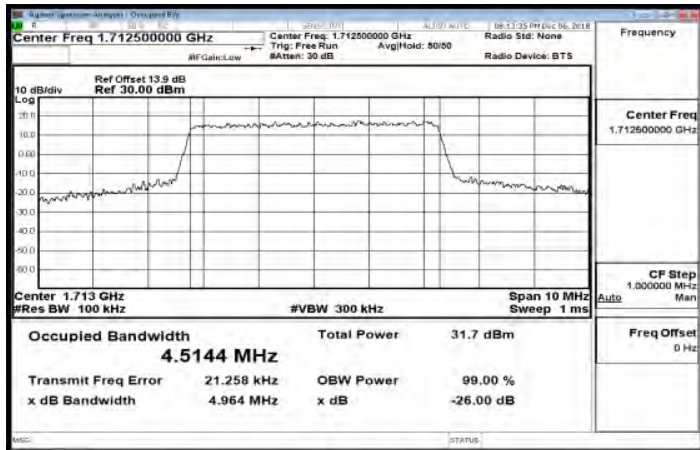
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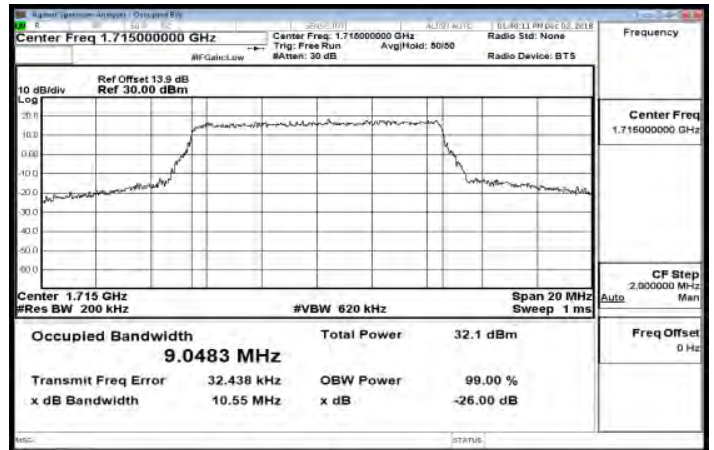
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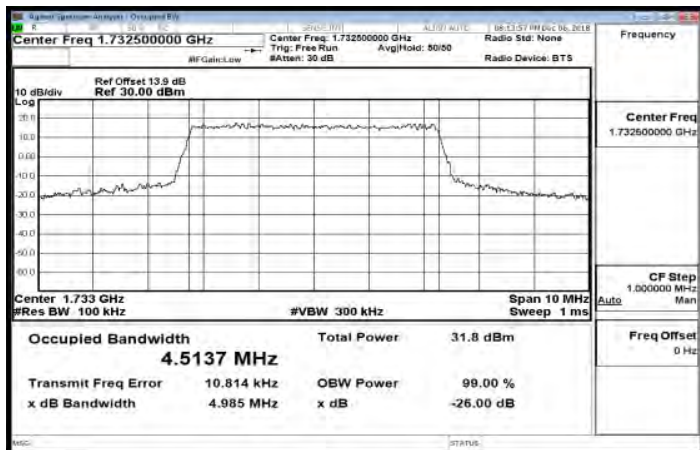
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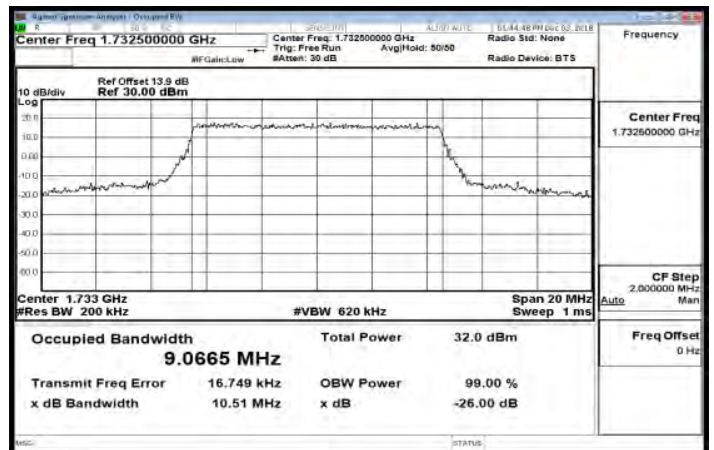
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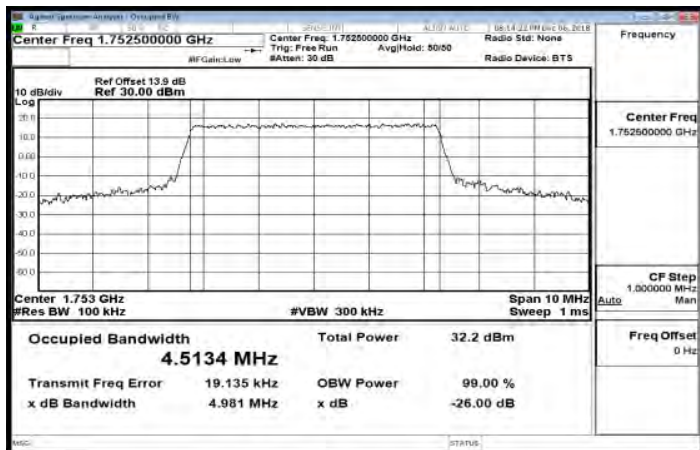
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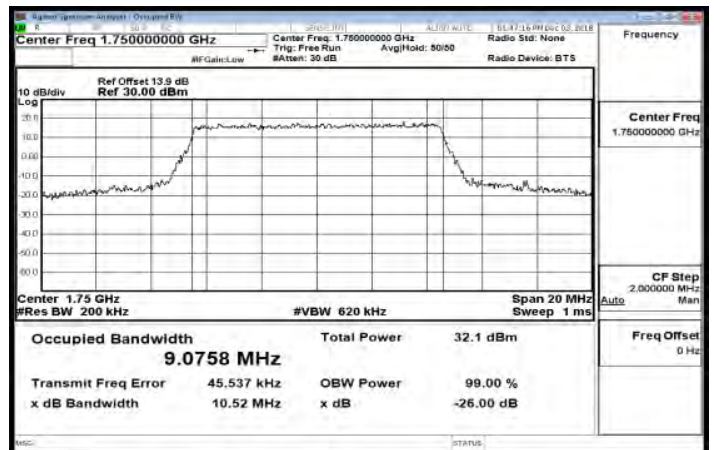
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Band4\_5MHz\_64QAM\_25\_0\_HighCH20375-1752.5



Band4\_10MHz\_QPSK\_50\_0\_HighCH20350-1750



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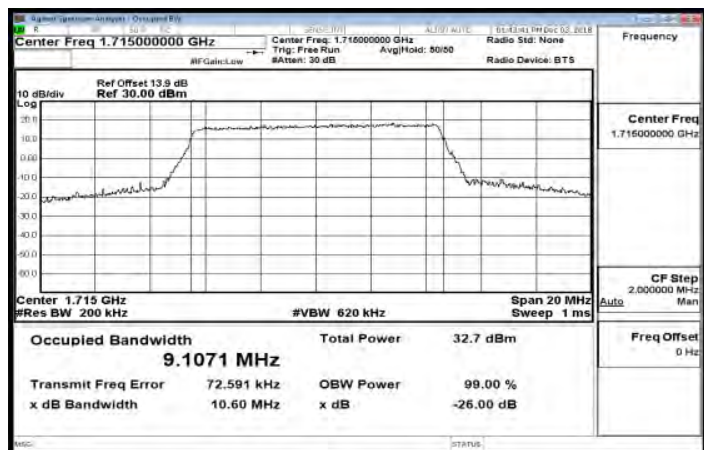
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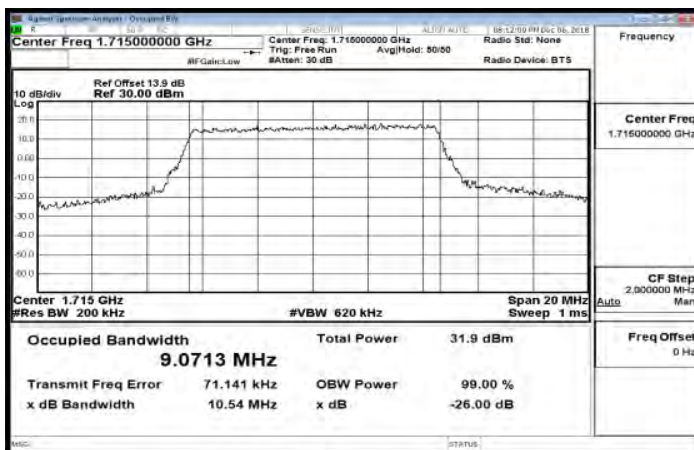
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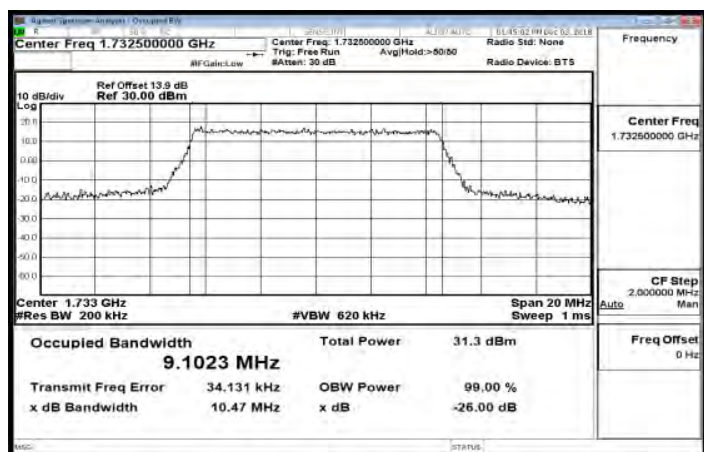
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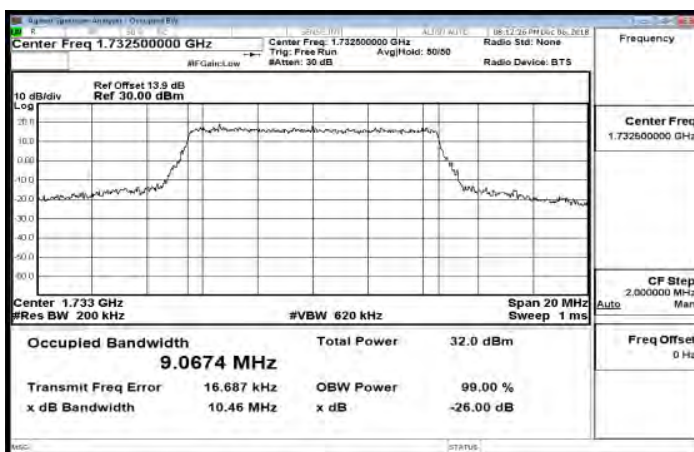
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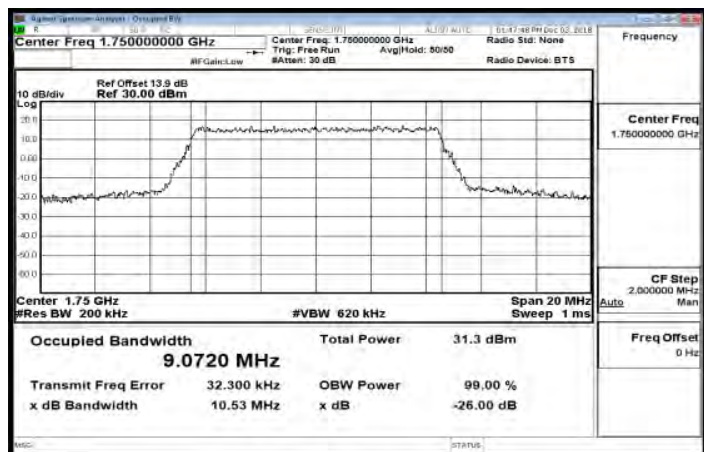
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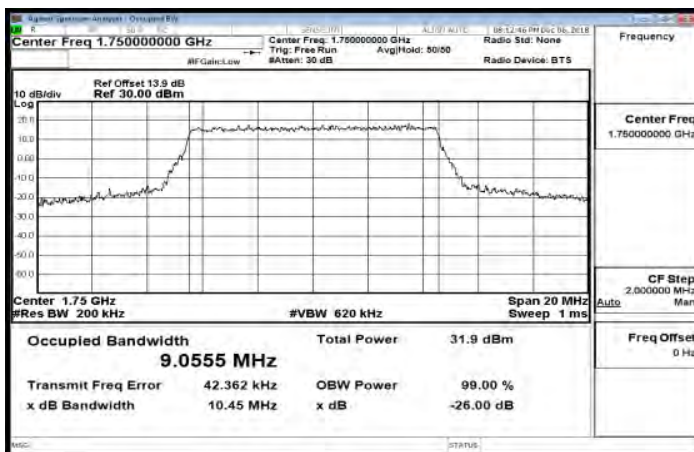
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Band4\_10MHz\_16QAM\_50\_0\_HighCH20350-1750



Band4\_10MHz\_64QAM\_50\_0\_HighCH20350-1750



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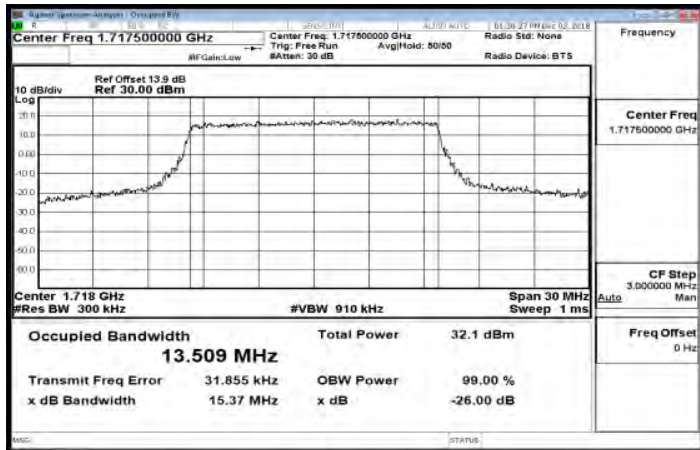
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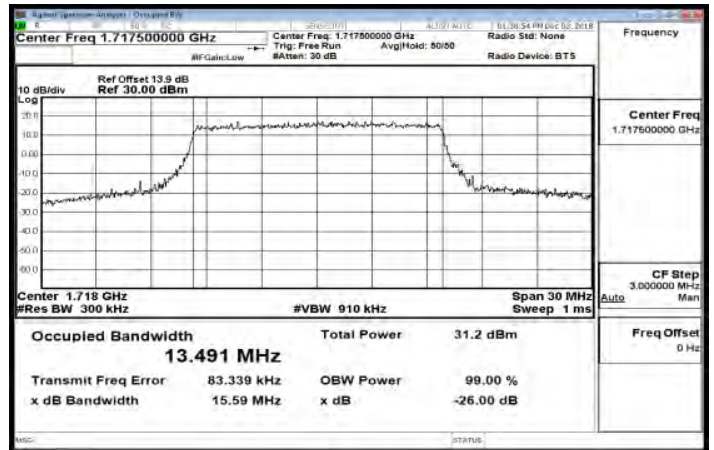
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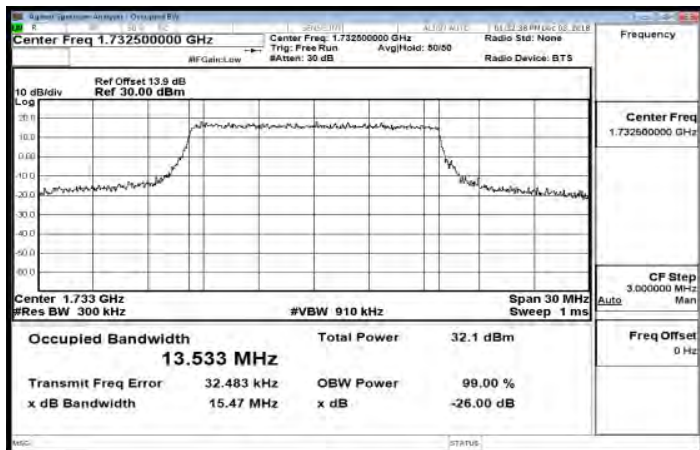
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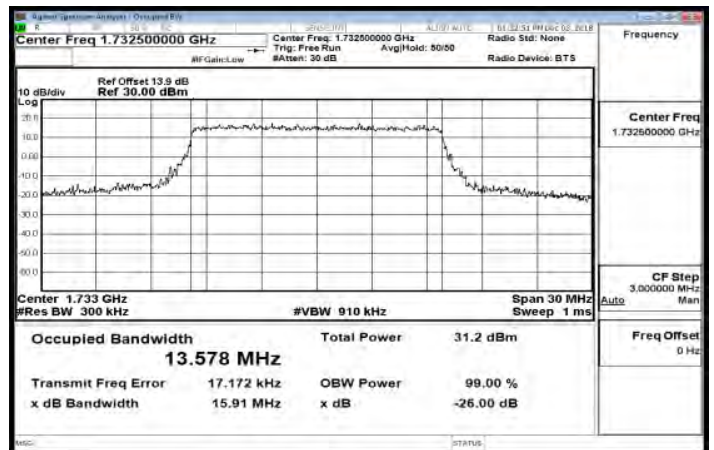
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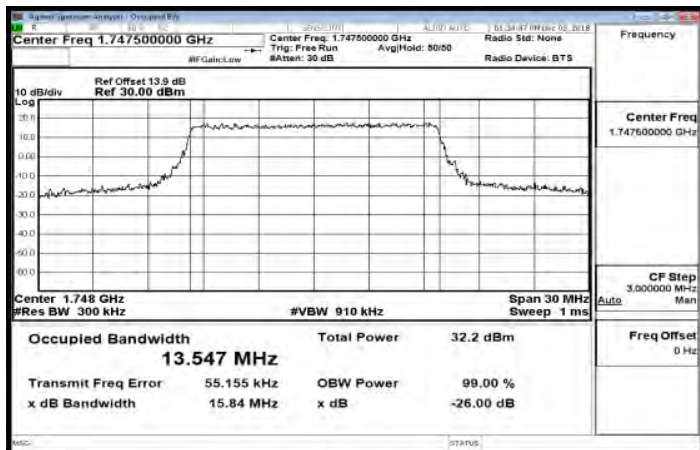
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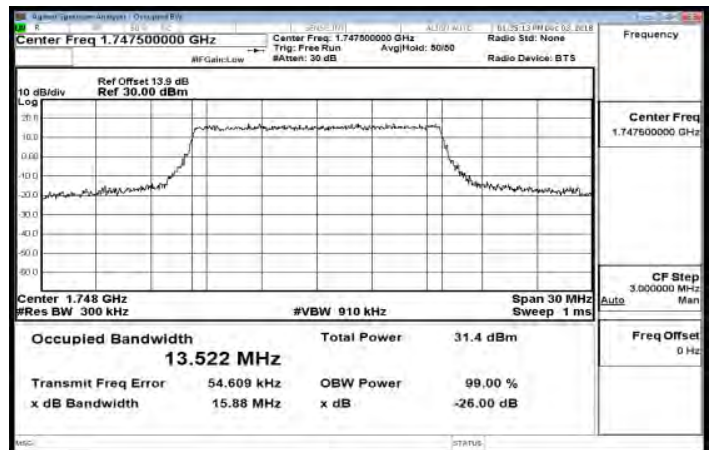
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Band4\_15MHz\_16QAM\_75\_0\_HighCH20325-1747.5



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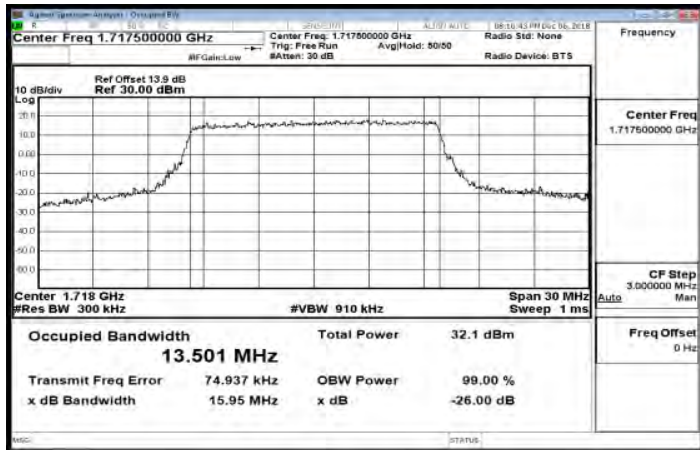
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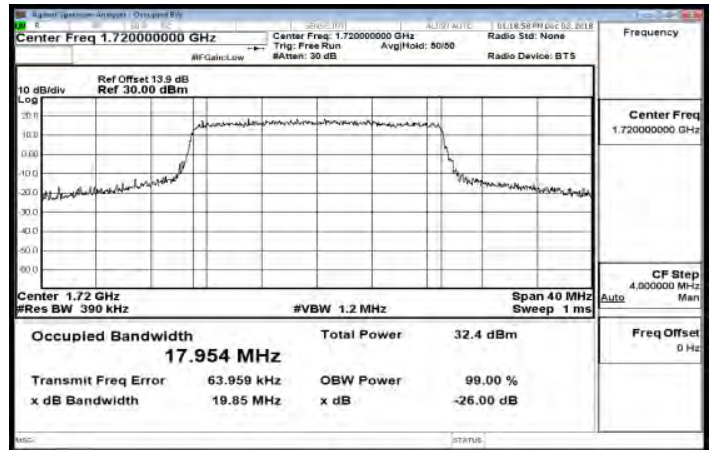
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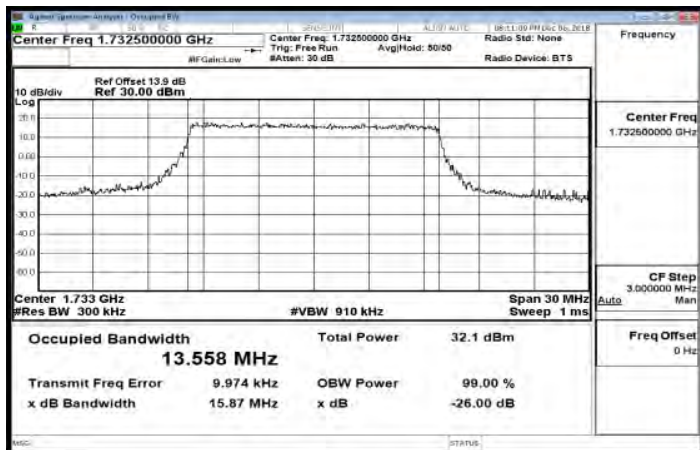
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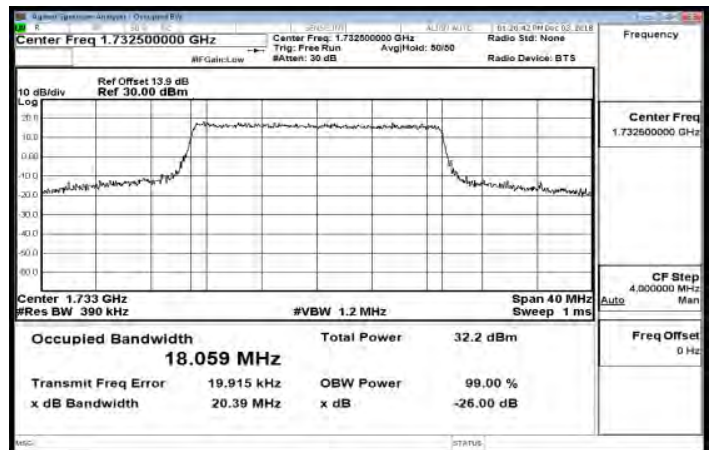
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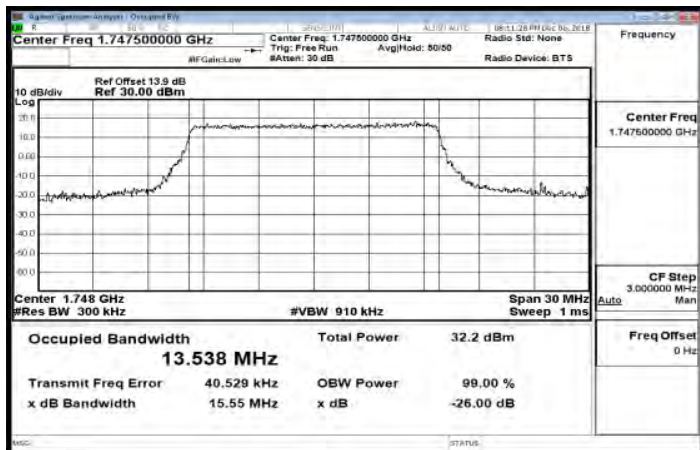
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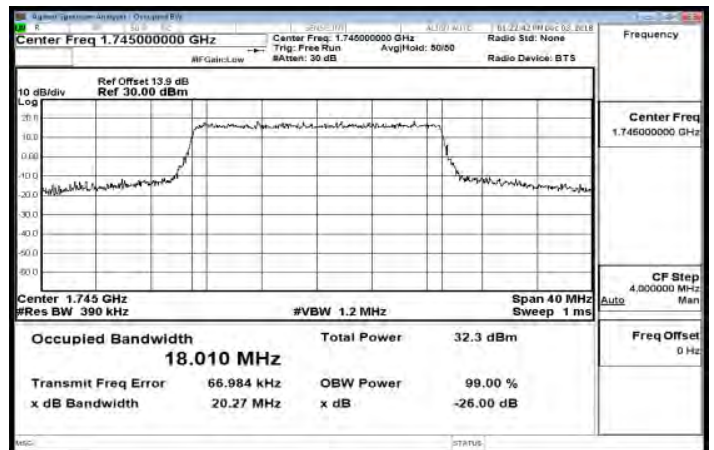
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Band4\_20MHz\_QPSK\_100\_0\_HighCH20300-1745



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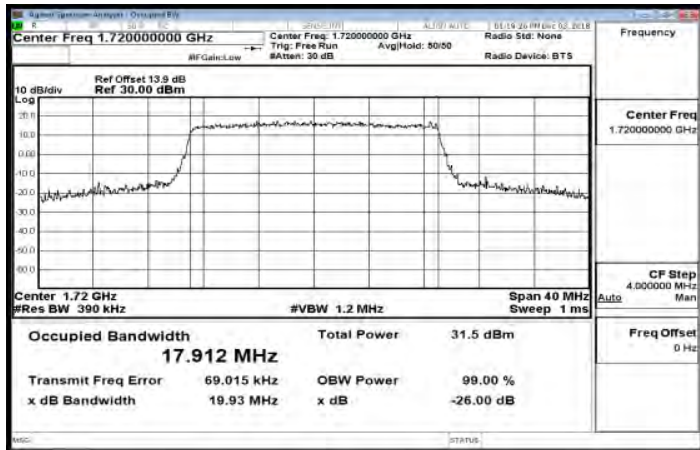
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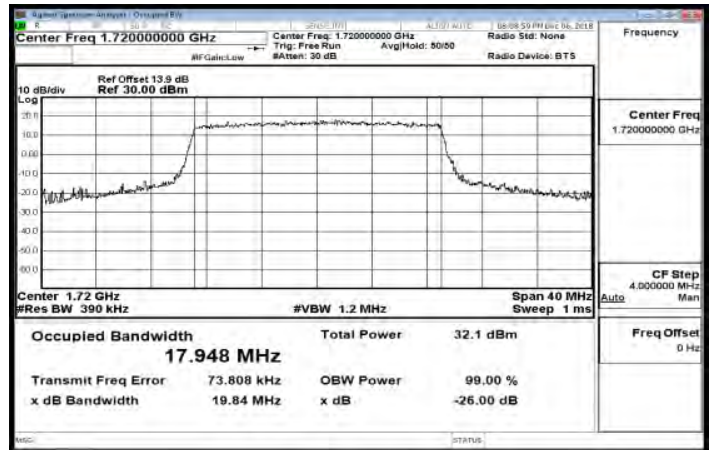
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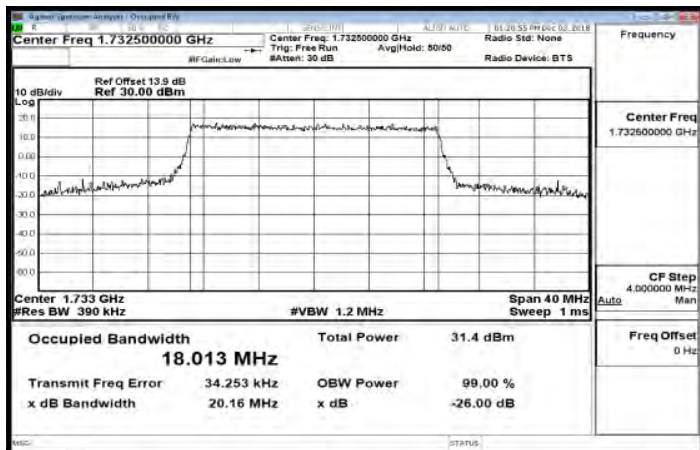
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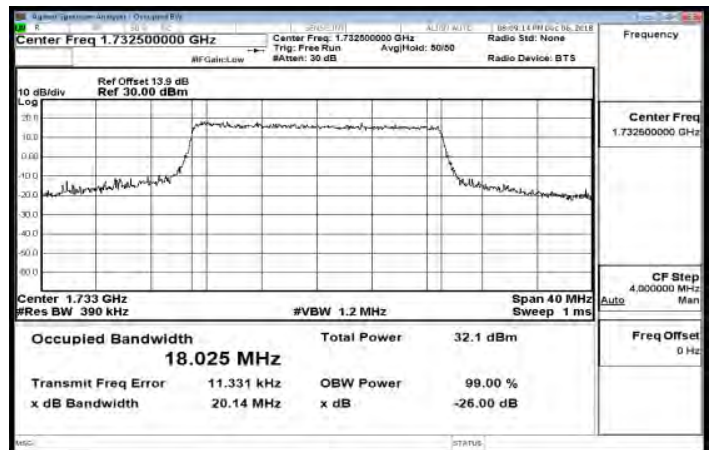
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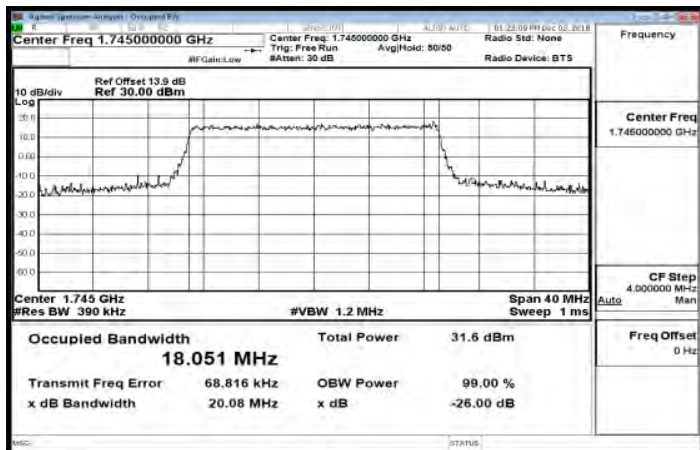
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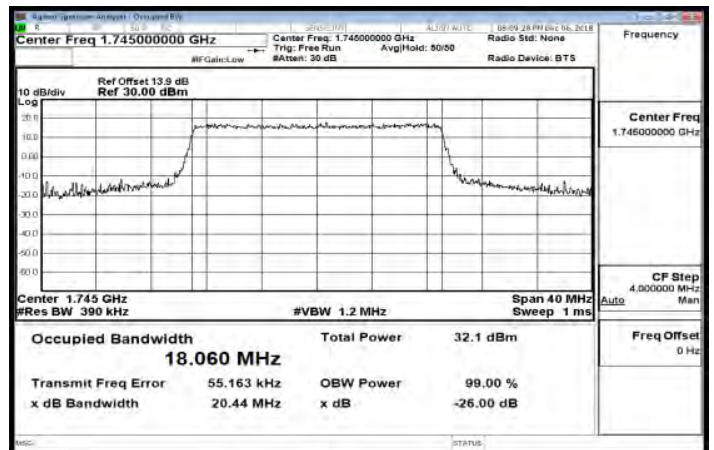
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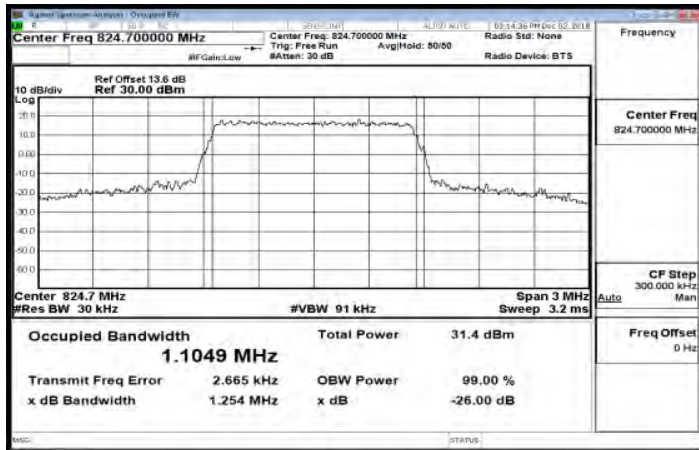
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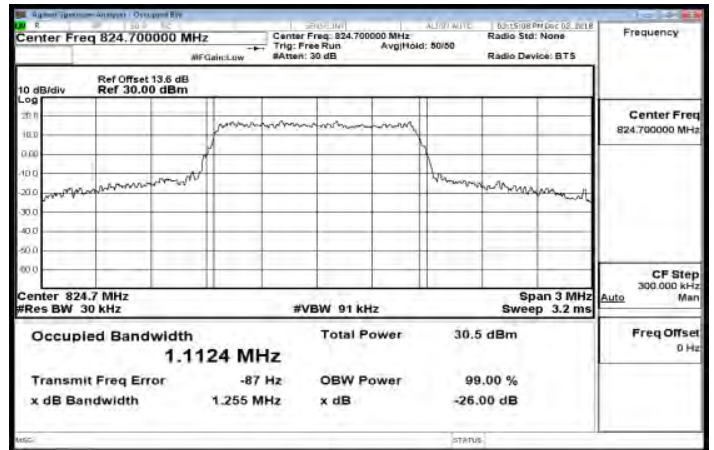
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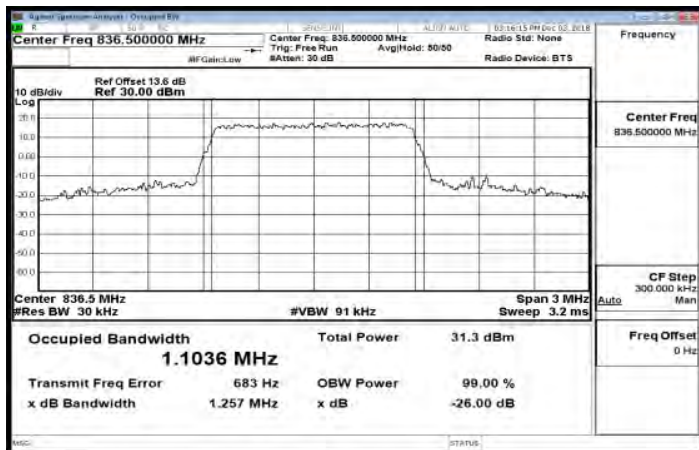
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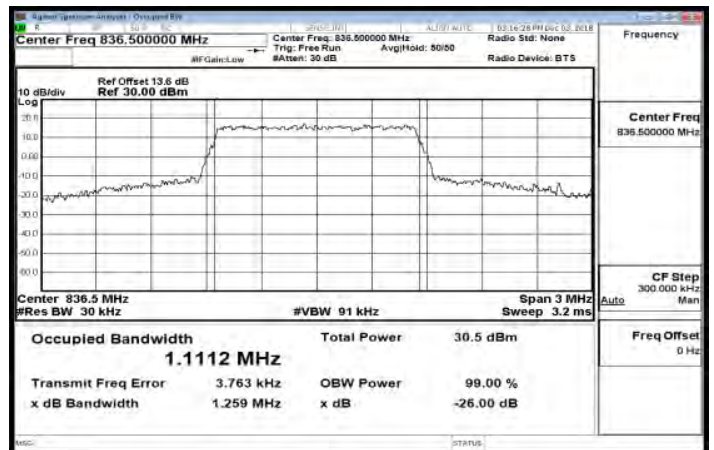
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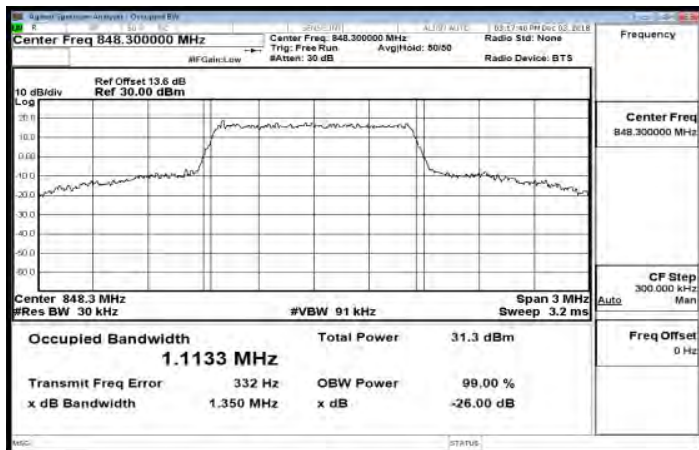
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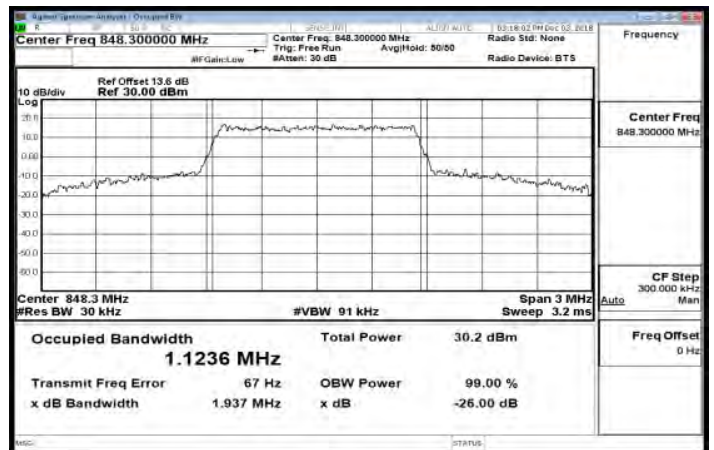
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Band5\_1\_4MHz\_QPSK\_6\_0\_HighCH20643-848.3



Band5\_1\_4MHz\_16QAM\_6\_0\_HighCH20643-848.3



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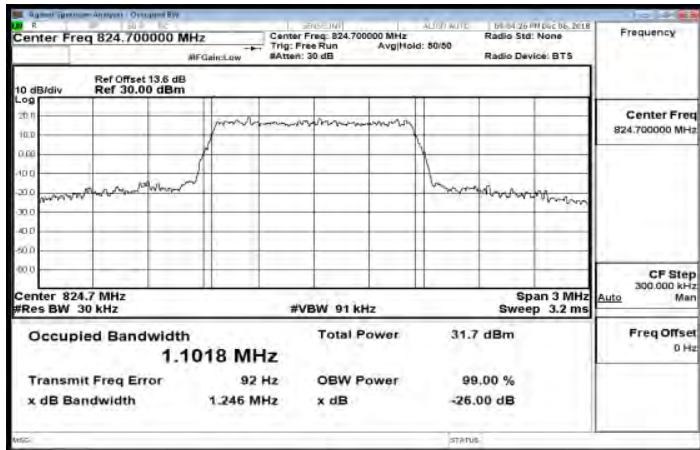
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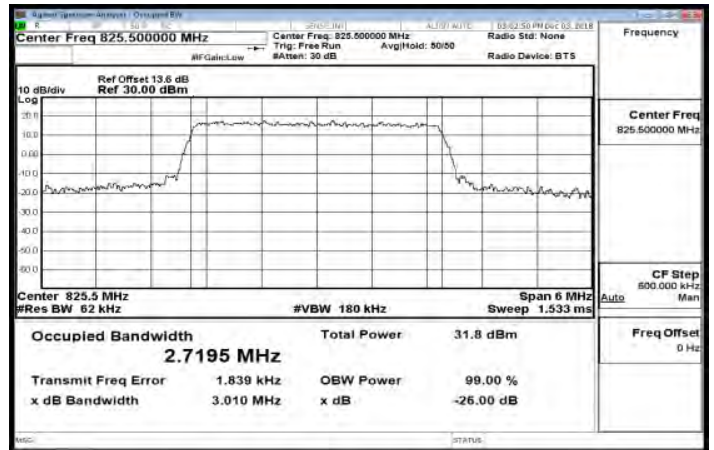
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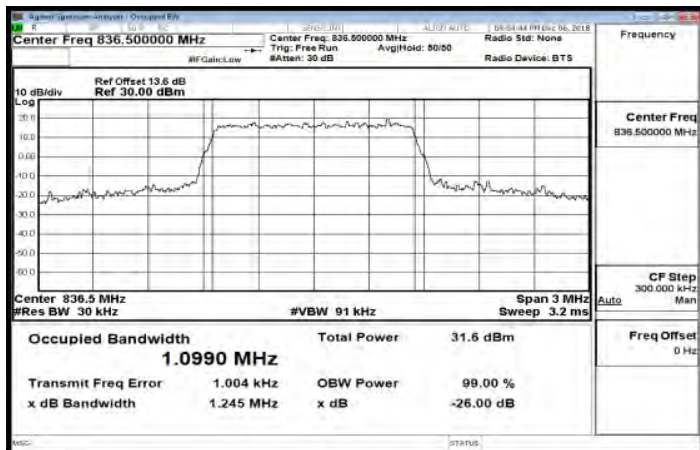
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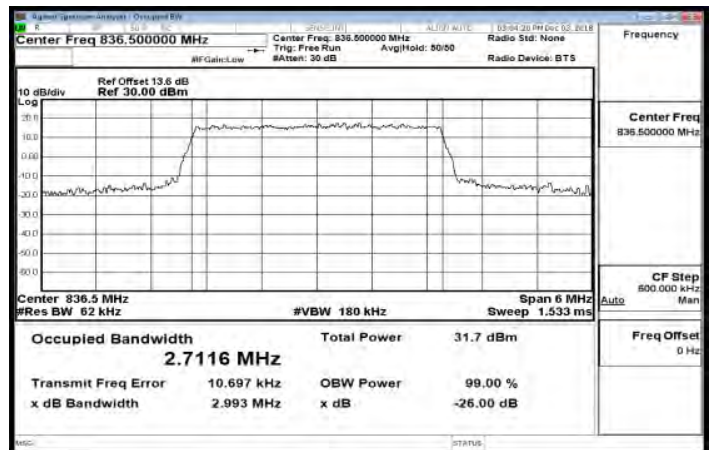
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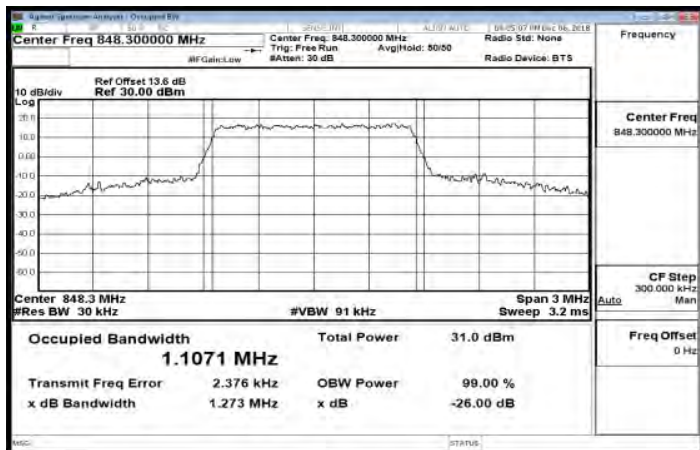
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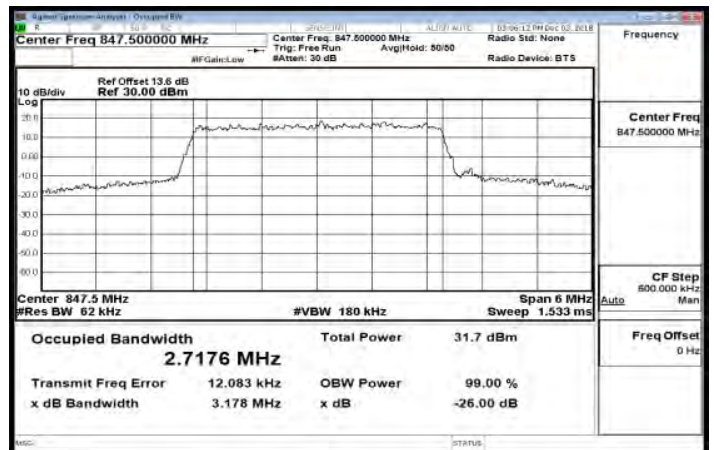
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Band5\_1\_4MHz\_64QAM\_6\_0\_HighCH20643-848.3



Band5\_3MHz\_QPSK\_15\_0\_HighCH20635-847.5



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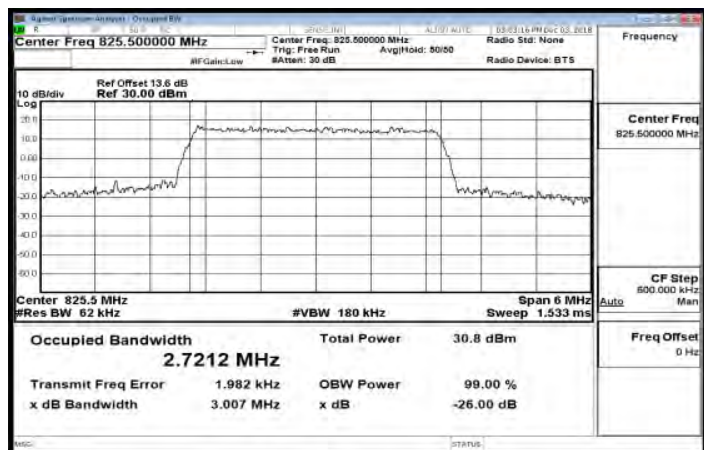
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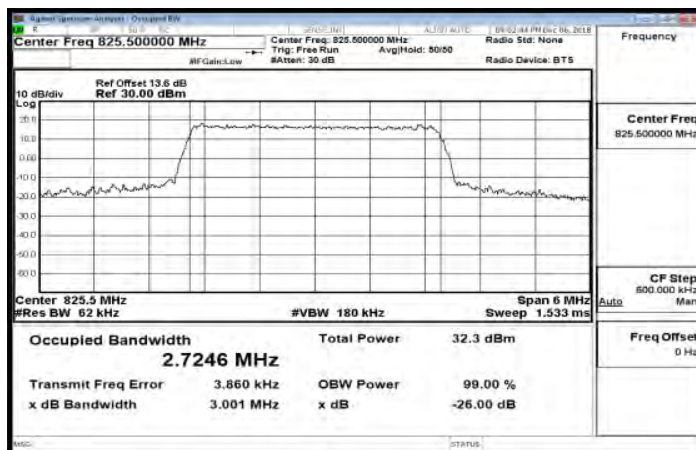
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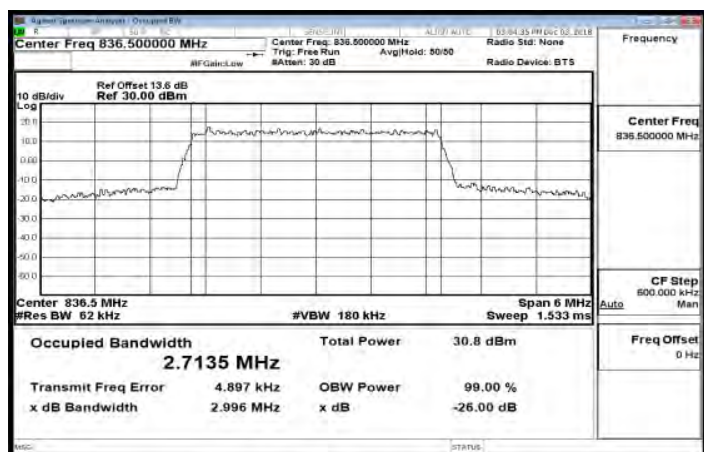
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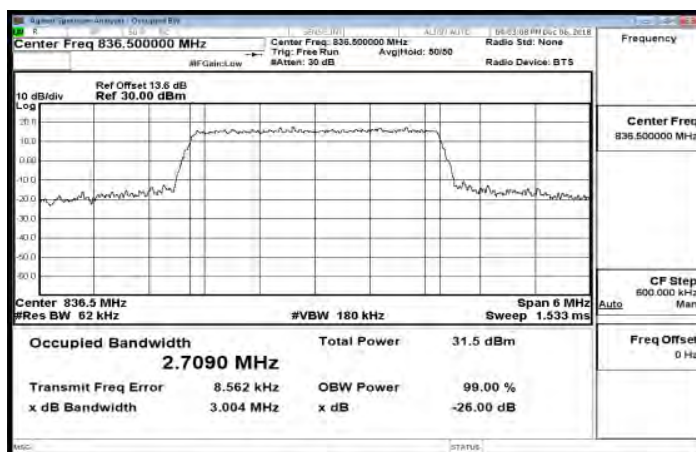
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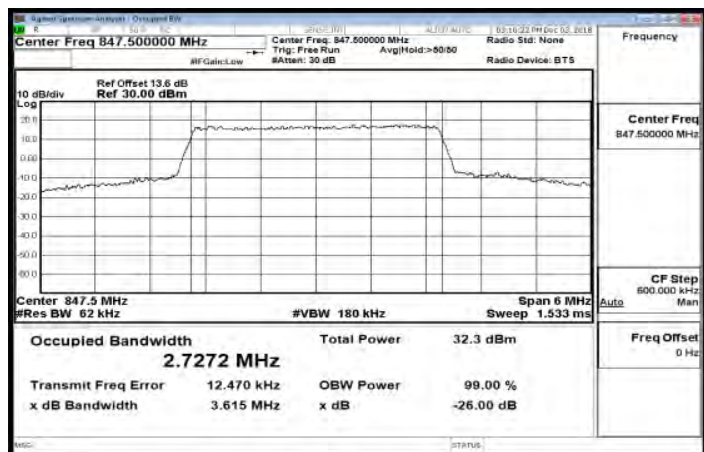
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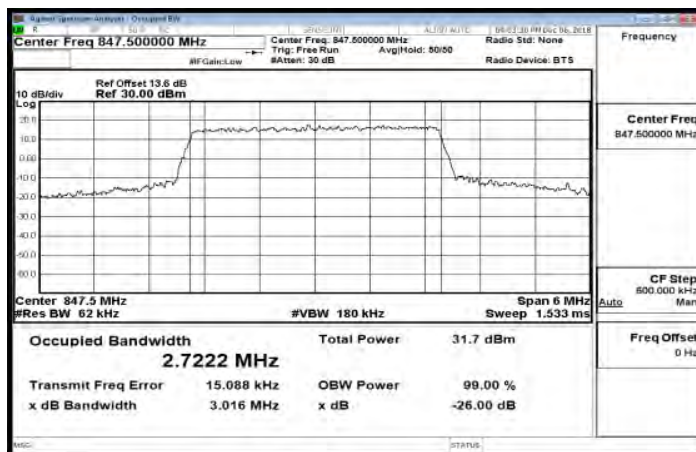
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Band5\_3MHz\_16QAM\_15\_0\_HighCH20635-847.5



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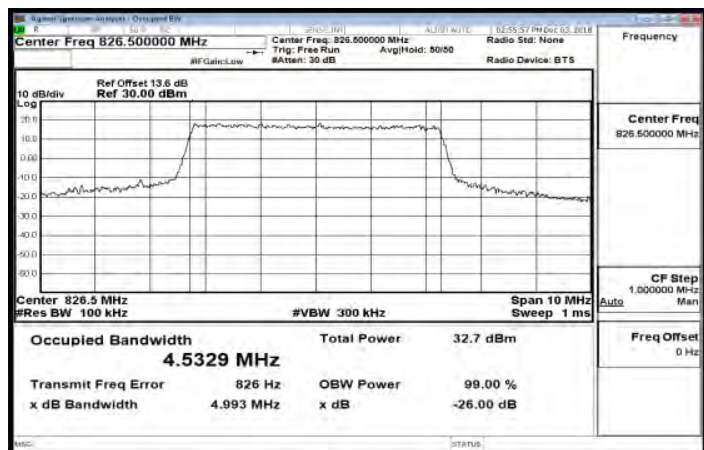
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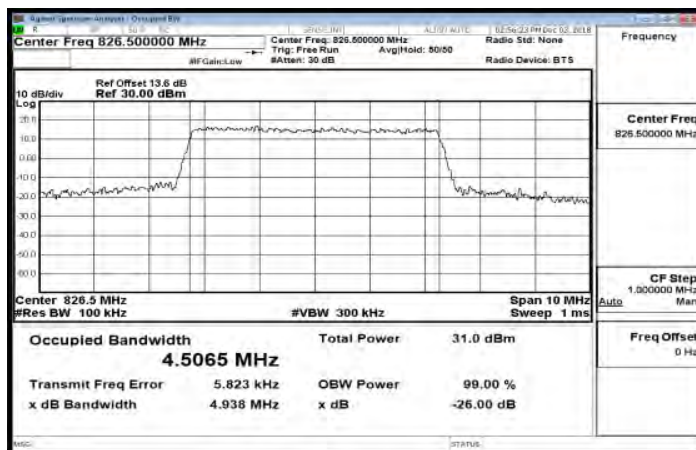
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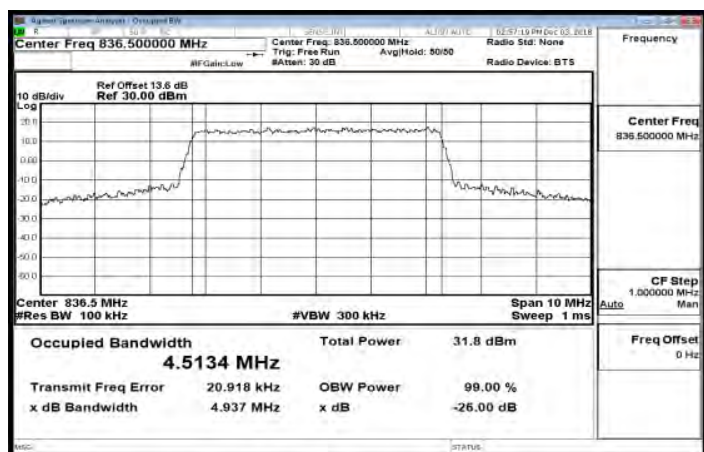
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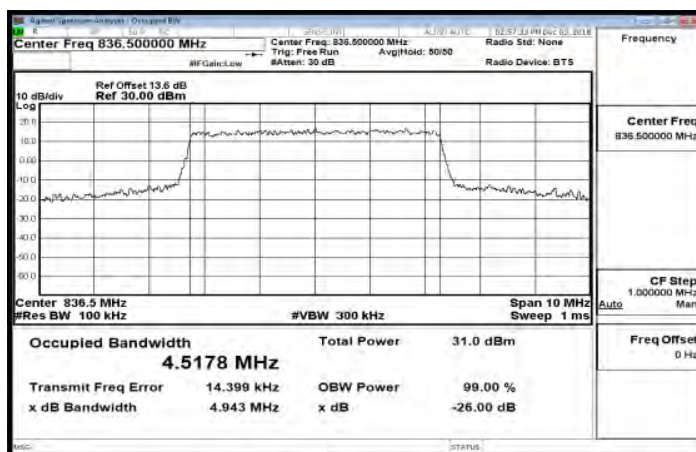
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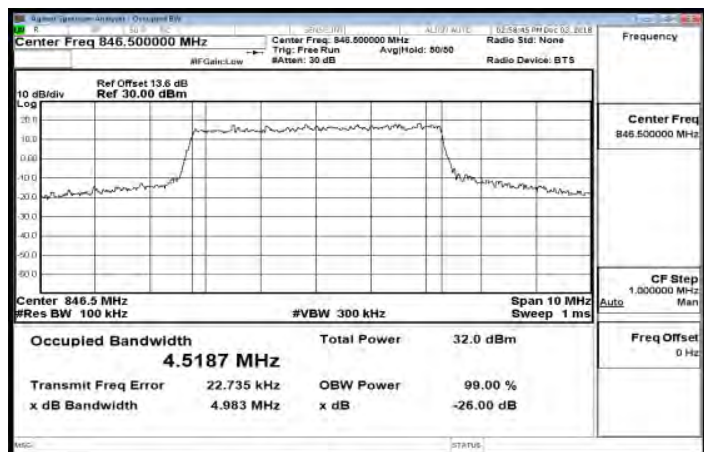
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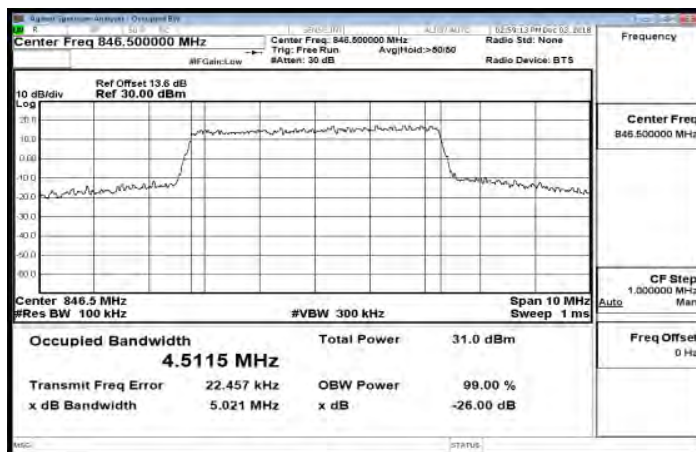
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Band5\_5MHz\_QPSK\_25\_0\_HighCH20625-846.5



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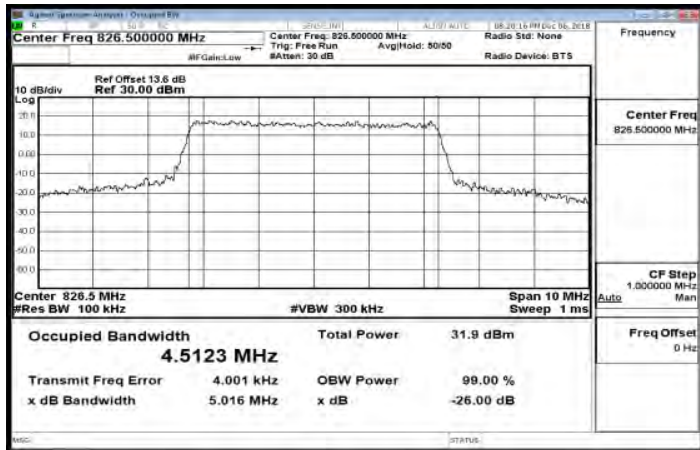
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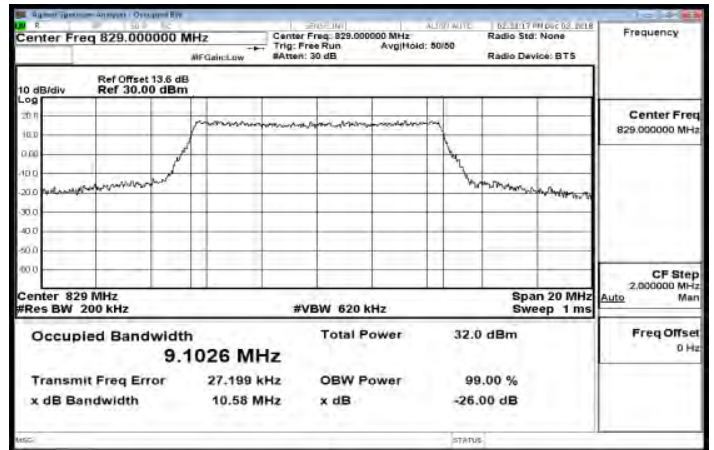
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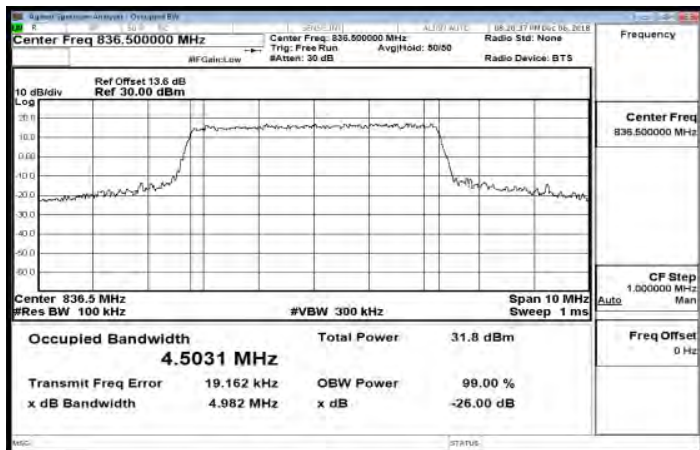
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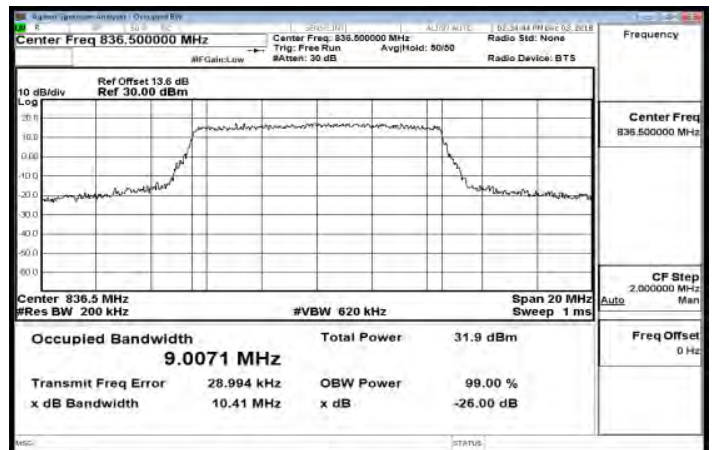
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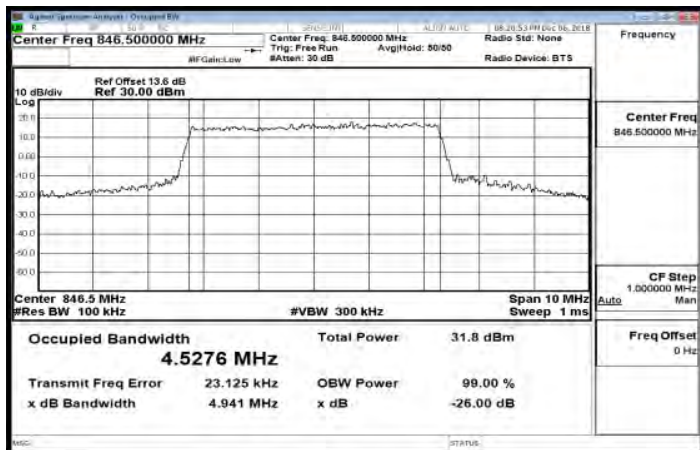
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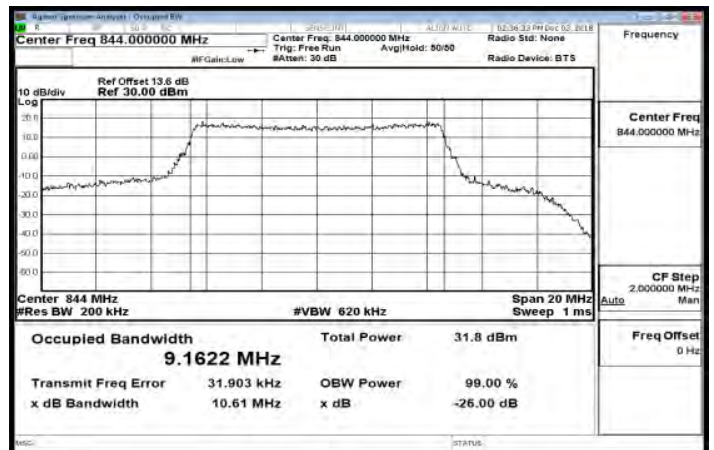
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Band5\_5MHz\_64QAM\_25\_0\_HighCH20625-846.5



Band5\_10MHz\_QPSK\_50\_0\_HighCH20600-844



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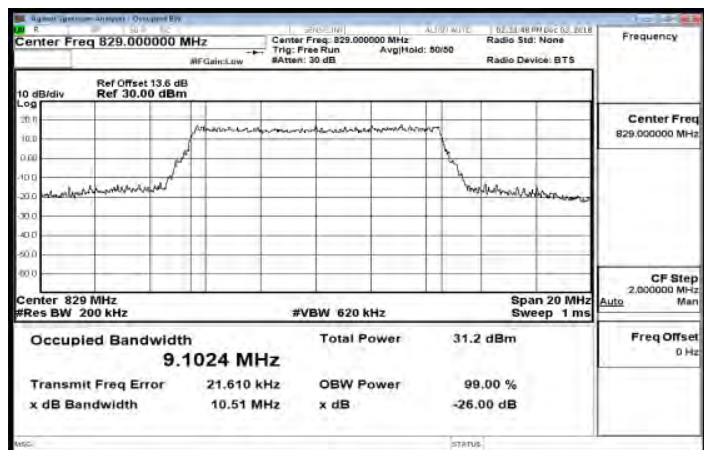
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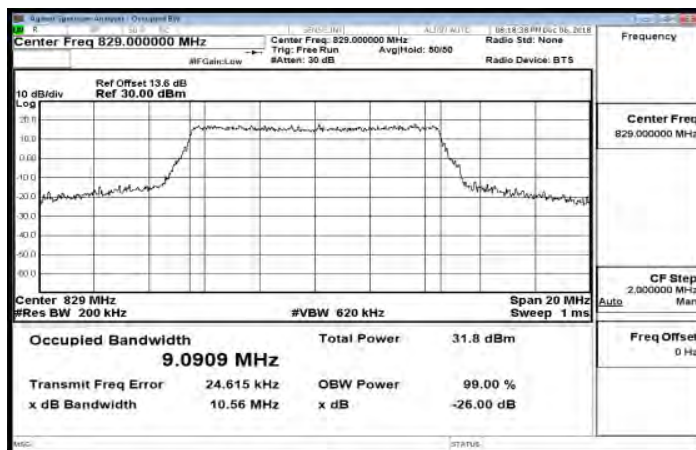
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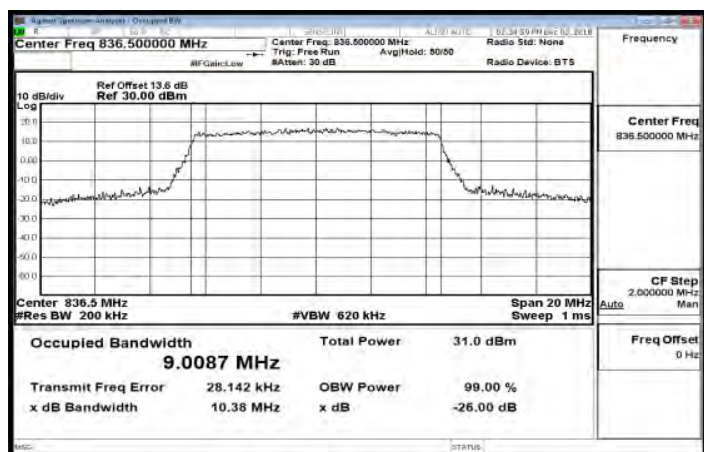
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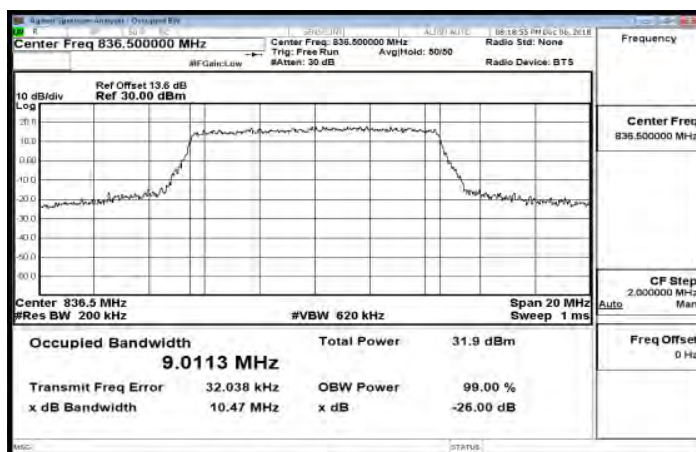
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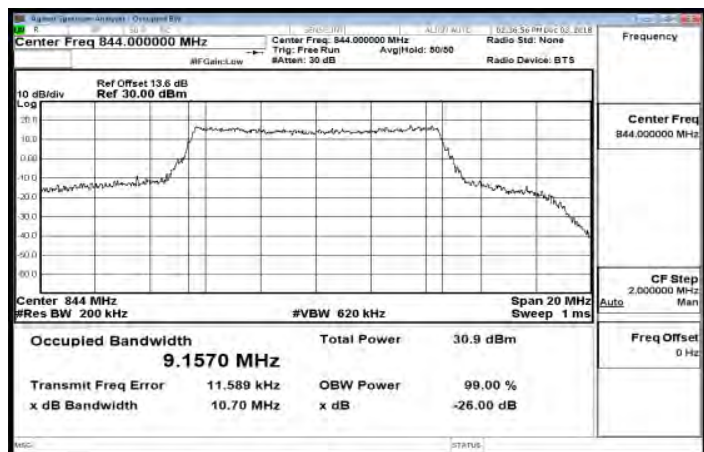
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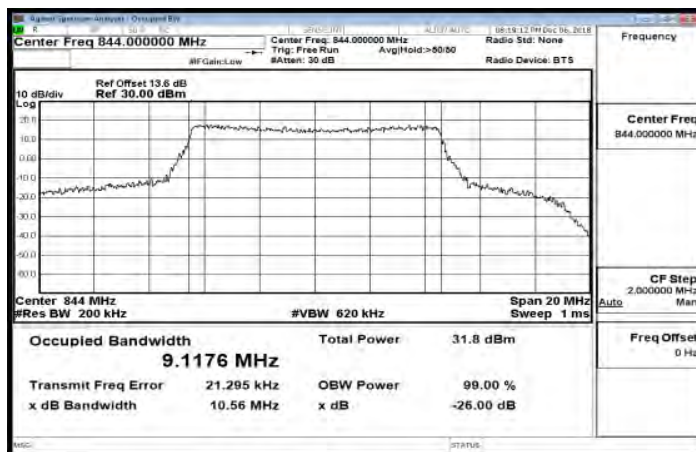
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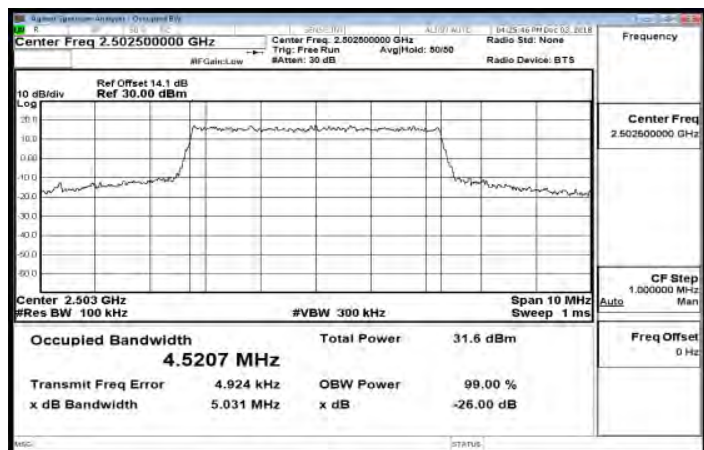
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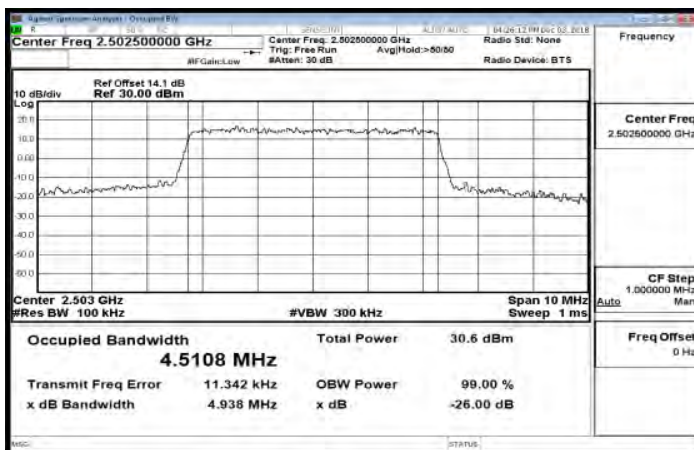
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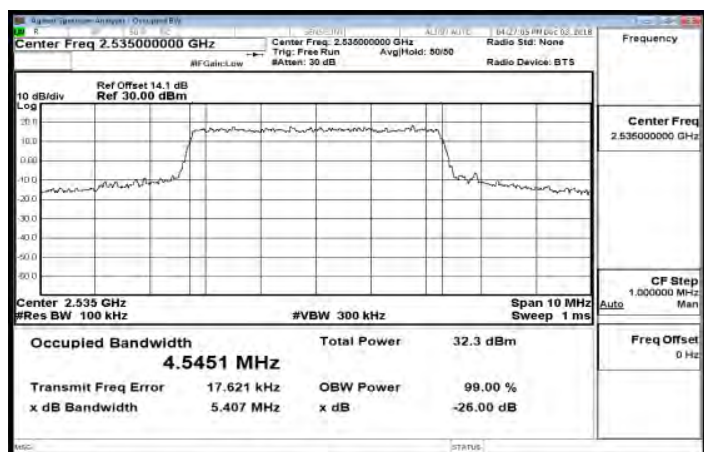
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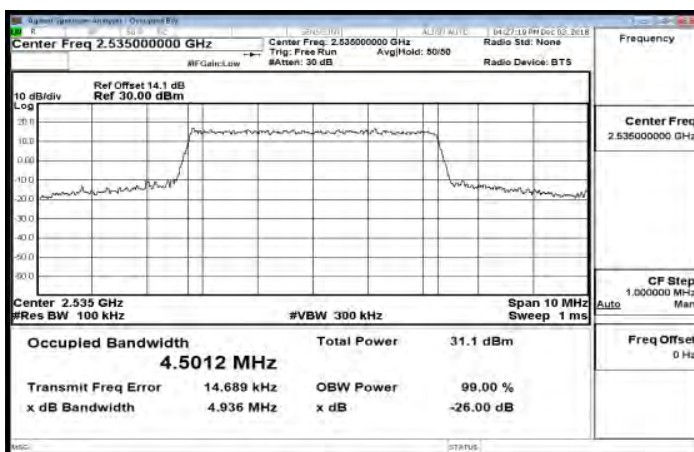
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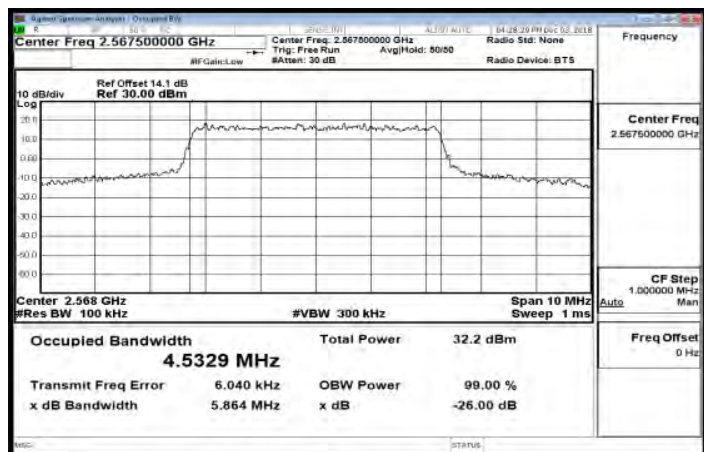
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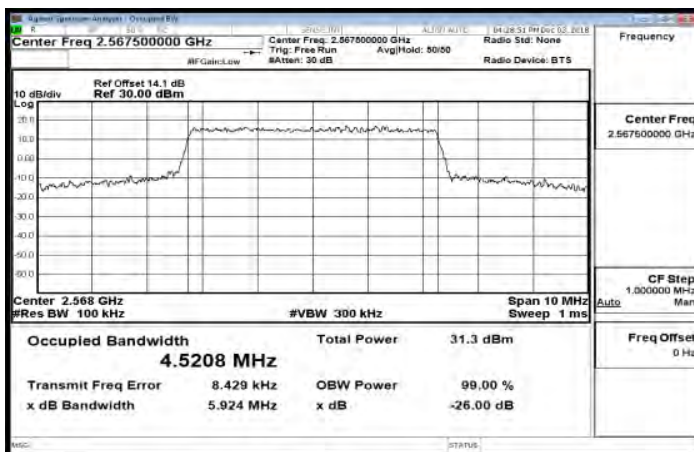
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Band7\_5MHz\_16QAM\_25\_0\_HighCH21425-2567.5



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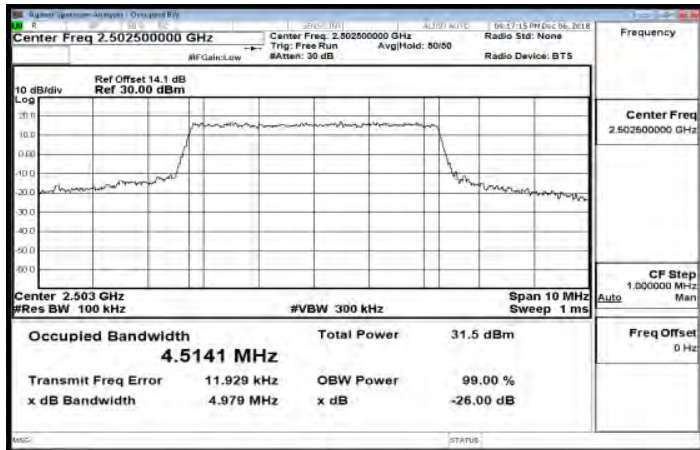
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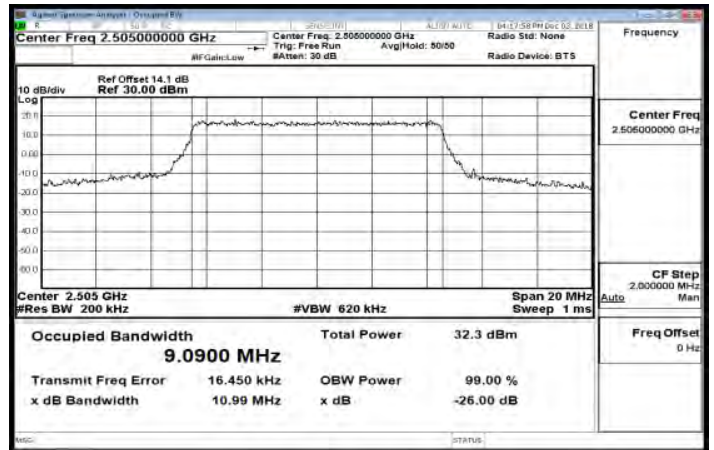
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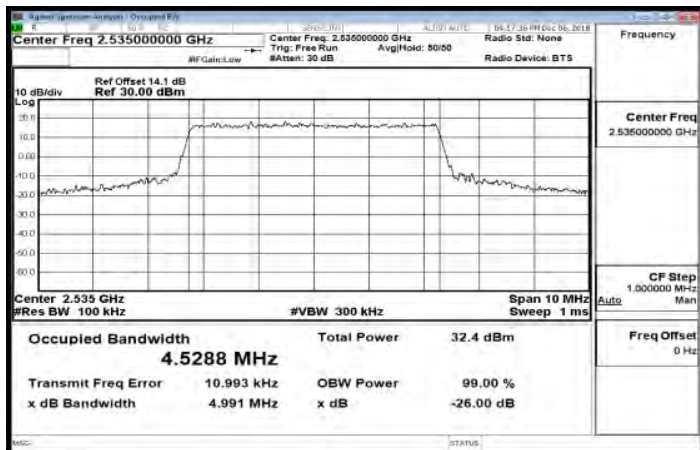
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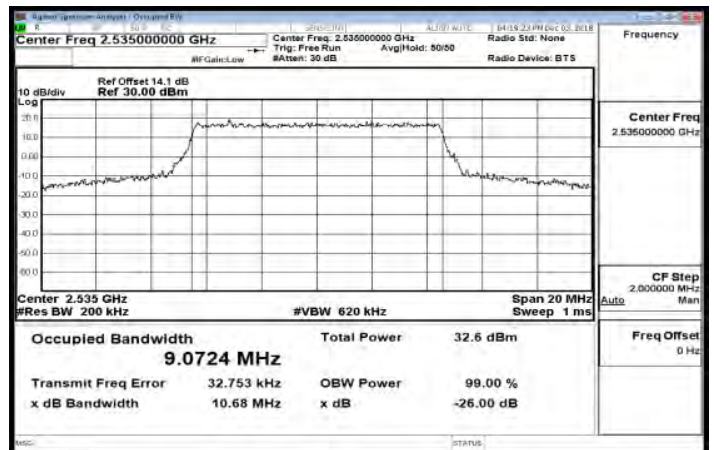
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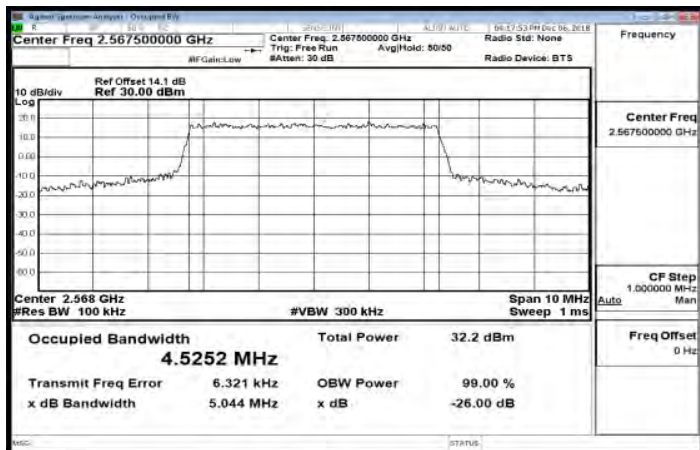
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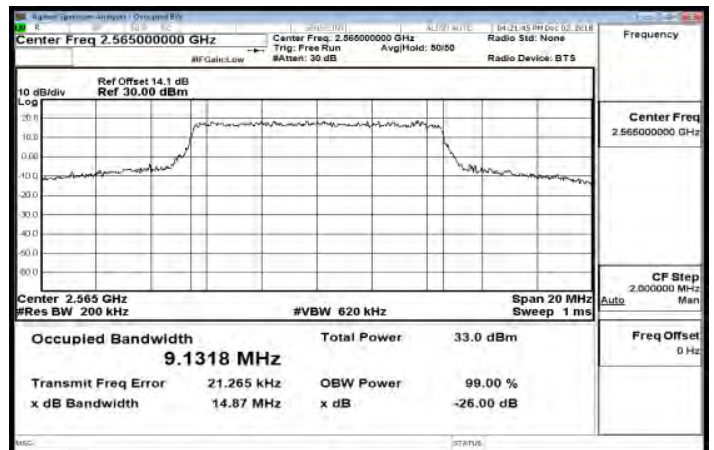
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Band7\_10MHz\_QPSK\_50\_0\_HighCH21400-2565



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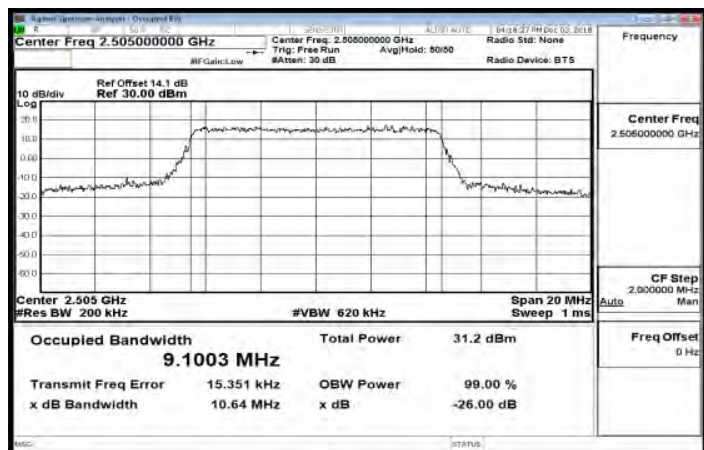
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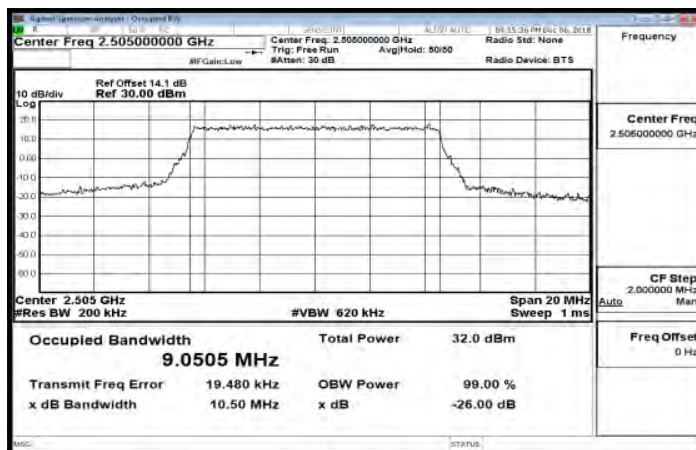
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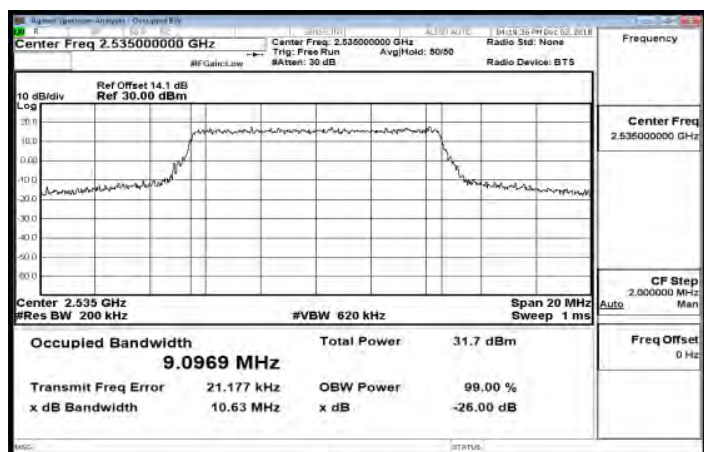
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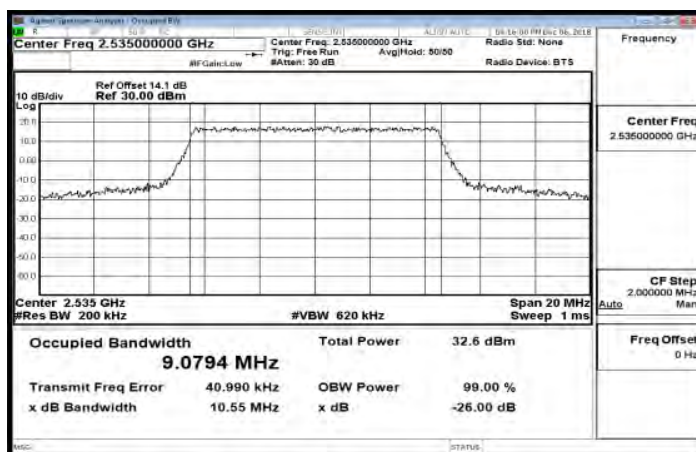
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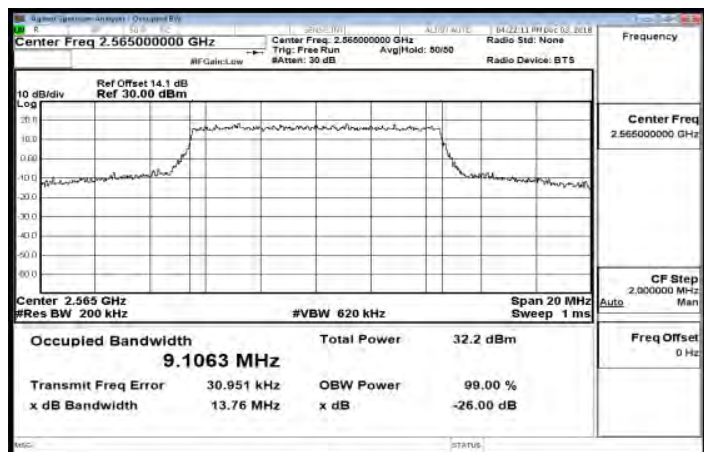
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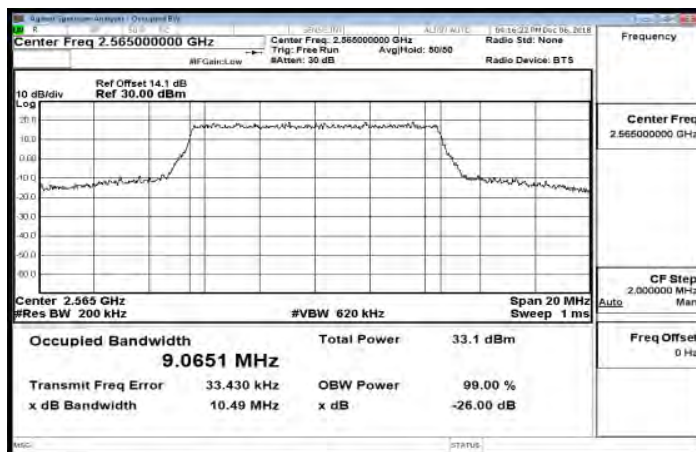
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Band7\_10MHz\_16QAM\_50\_0\_HighCH21400-2565



Band7\_10MHz\_64QAM\_50\_0\_HighCH21400-2565



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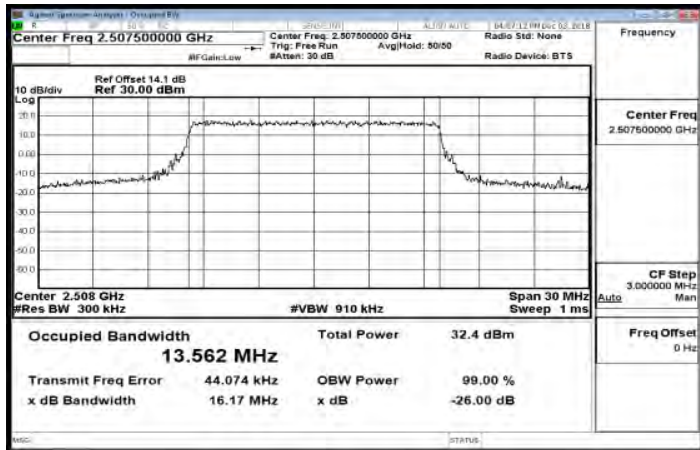
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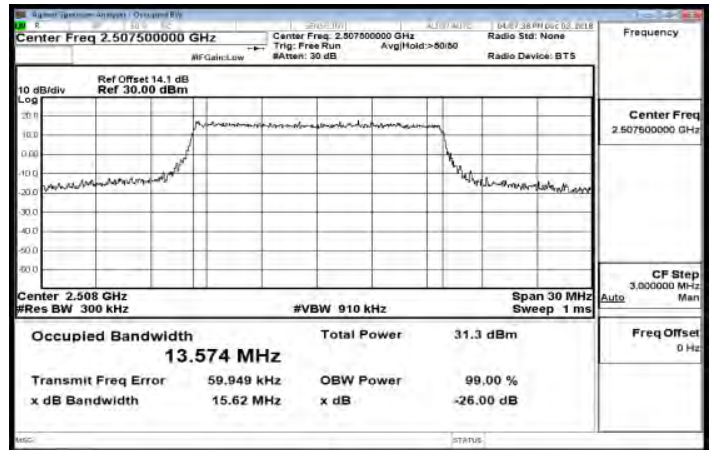
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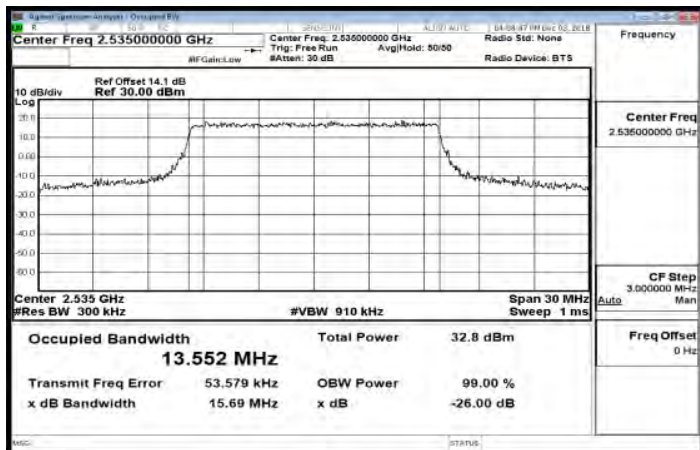
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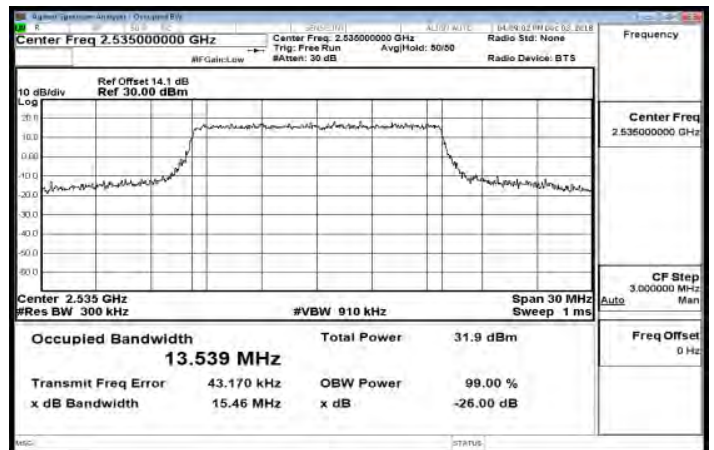
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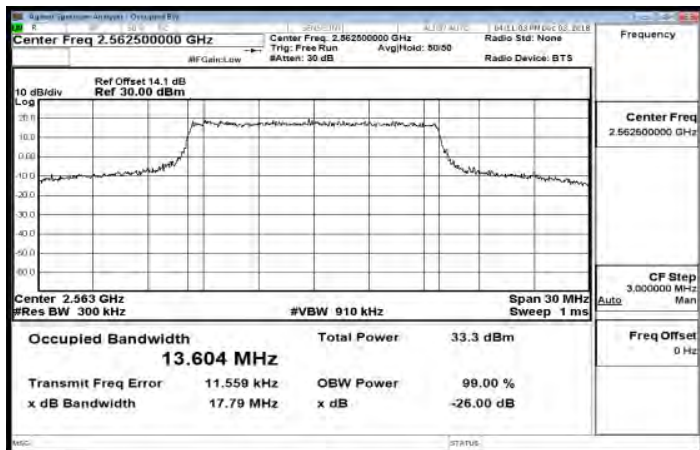
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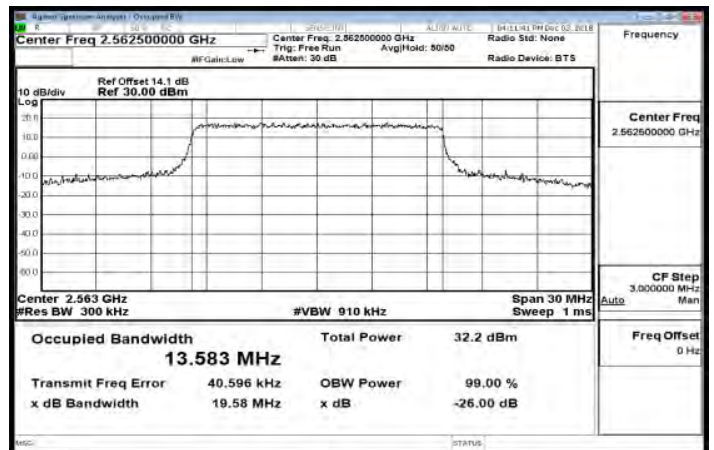
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Band7\_15MHz\_QPSK\_75\_0\_HighCH21375-2562.5



Band7\_15MHz\_16QAM\_75\_0\_HighCH21375-2562.5



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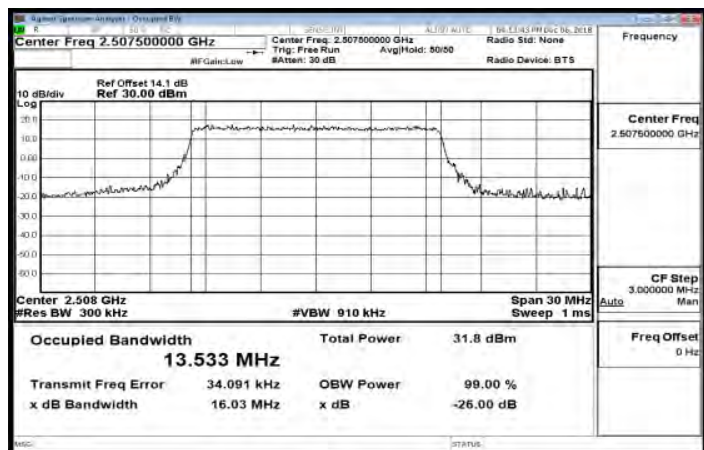
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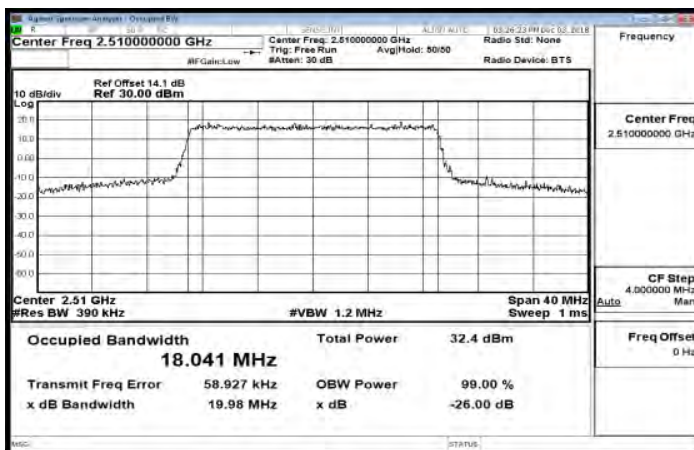
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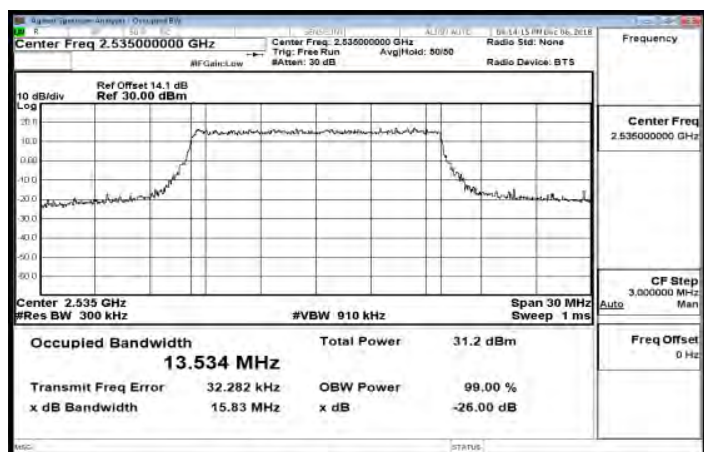
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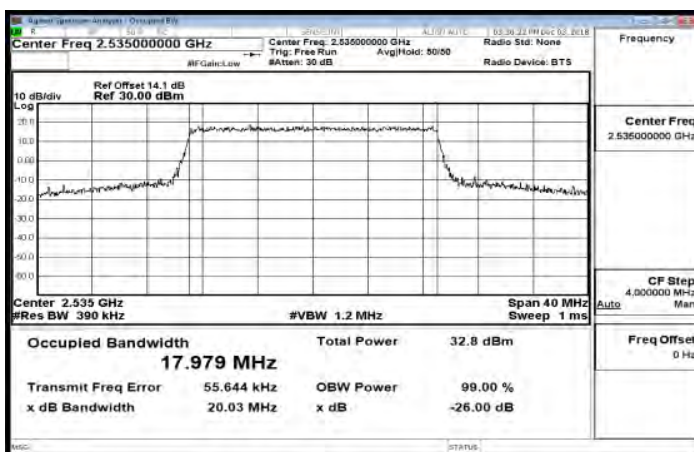
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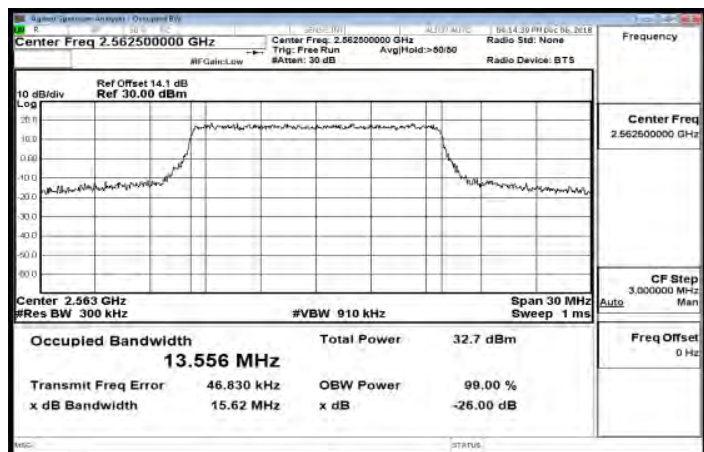
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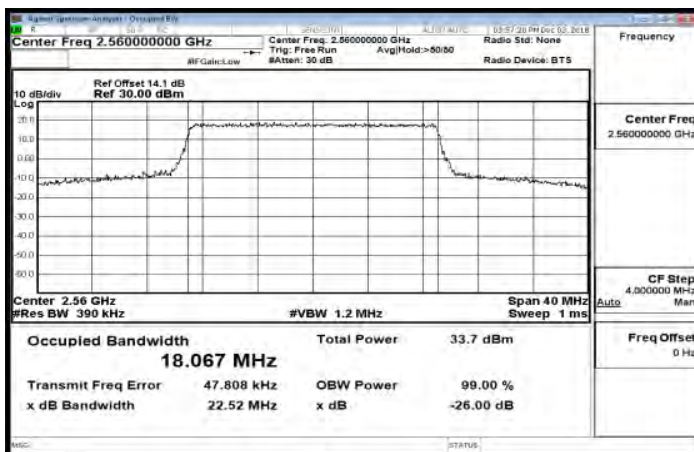
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Band7\_15MHz\_64QAM\_75\_0\_HighCH21375-2562.5



Band7\_20MHz\_QPSK\_100\_0\_HighCH21350-2560



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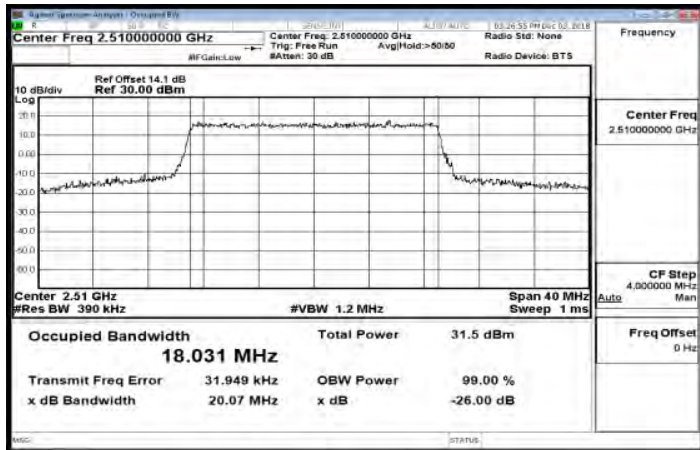
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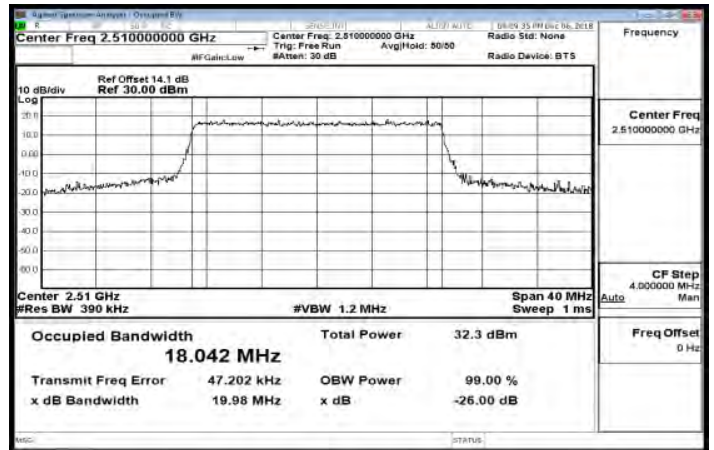
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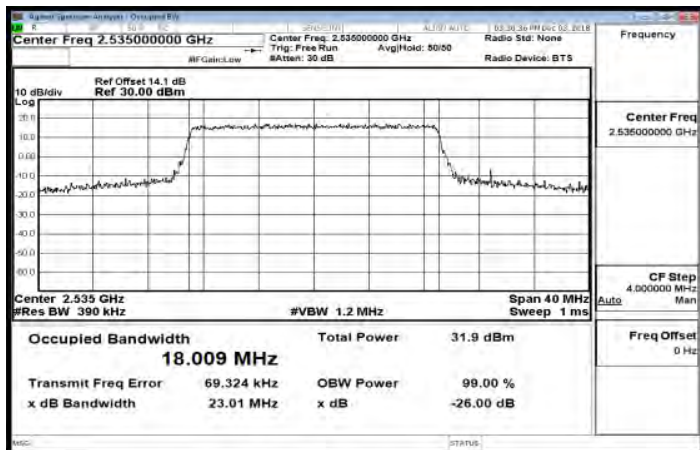
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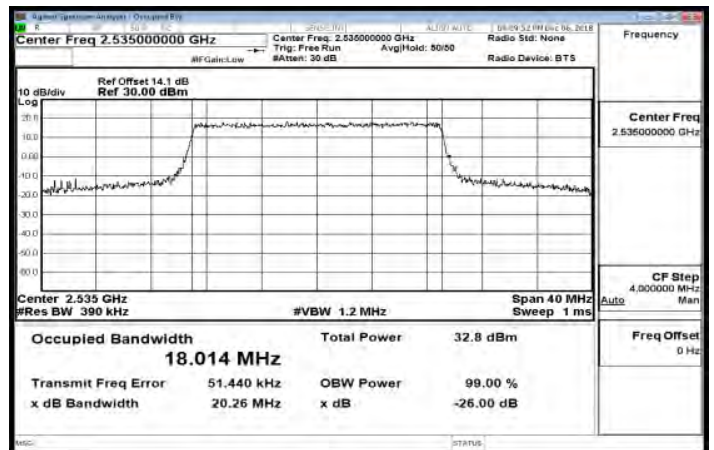
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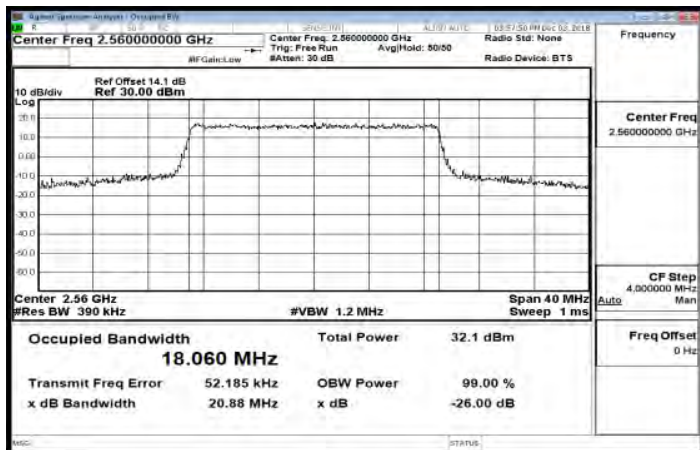
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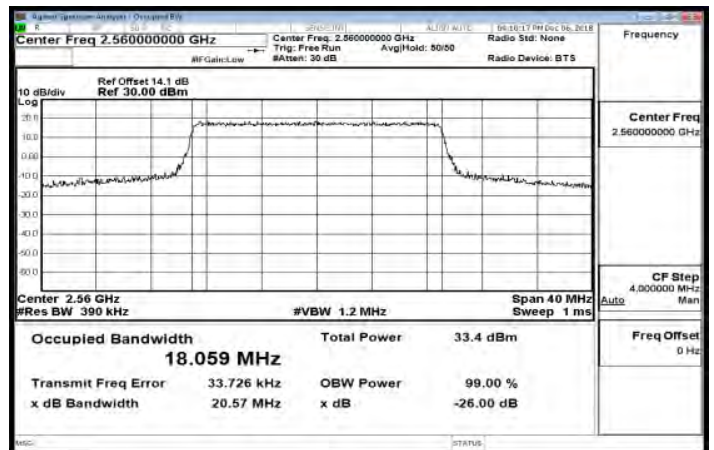
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Band7\_20MHz\_16QAM\_100\_0\_HighCH21350-2560



Band7\_20MHz\_64QAM\_100\_0\_HighCH21350-2560



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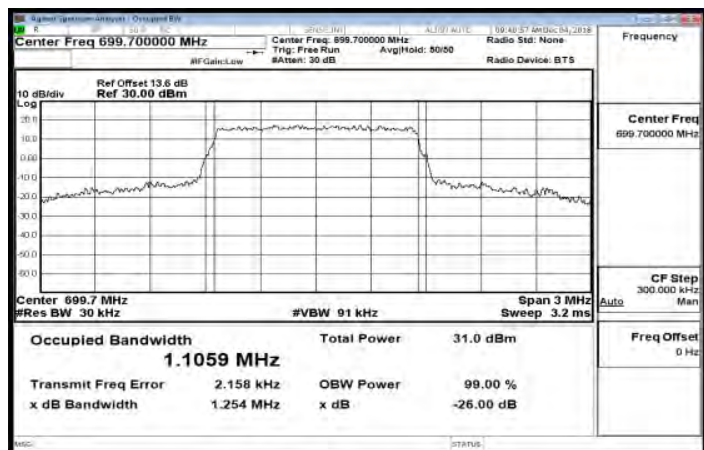
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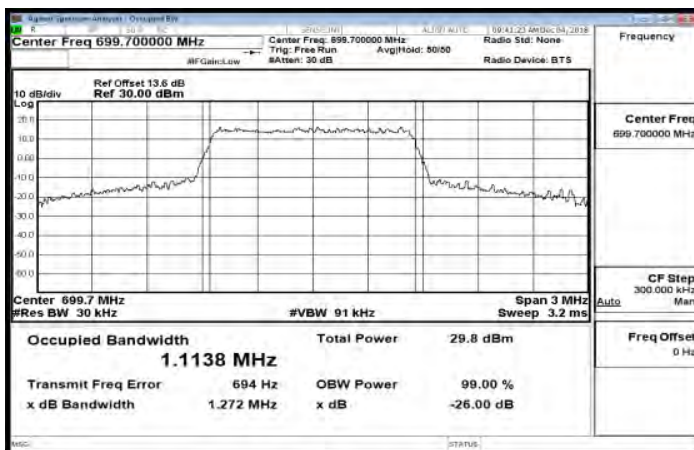
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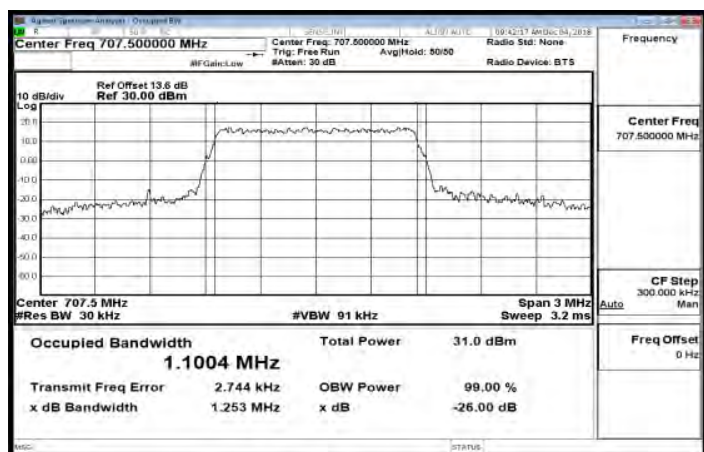
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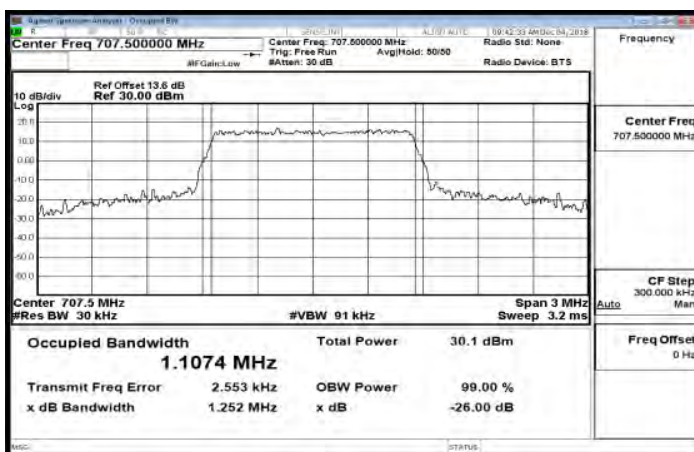
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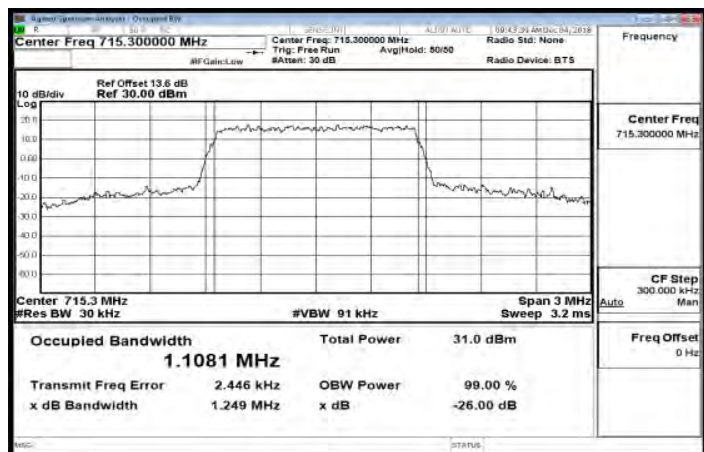
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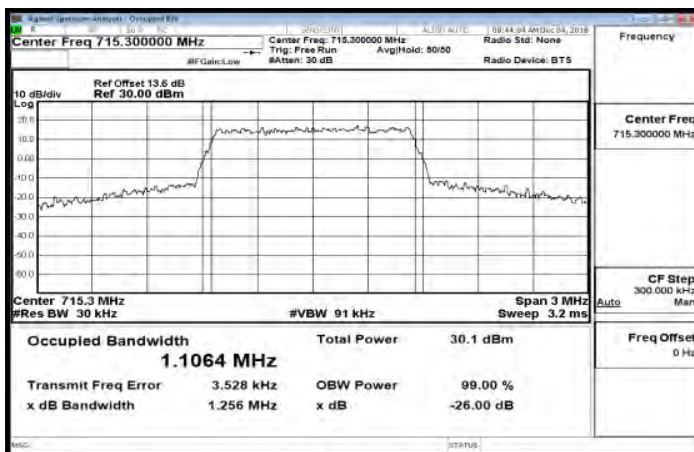
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Band12\_1\_4MHz\_QPSK\_6\_0\_HighCH23173-715.3



Band12\_1\_4MHz\_16QAM\_6\_0\_HighCH23173-715.3



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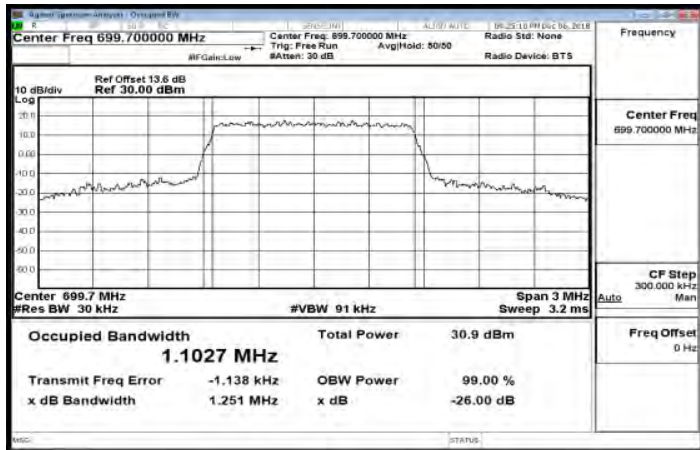
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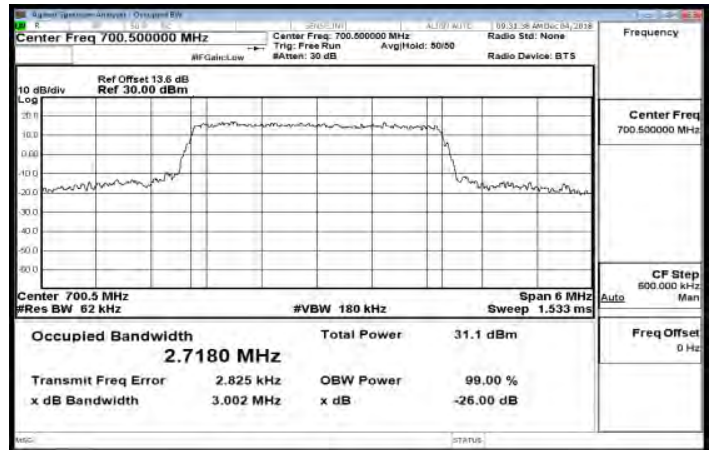
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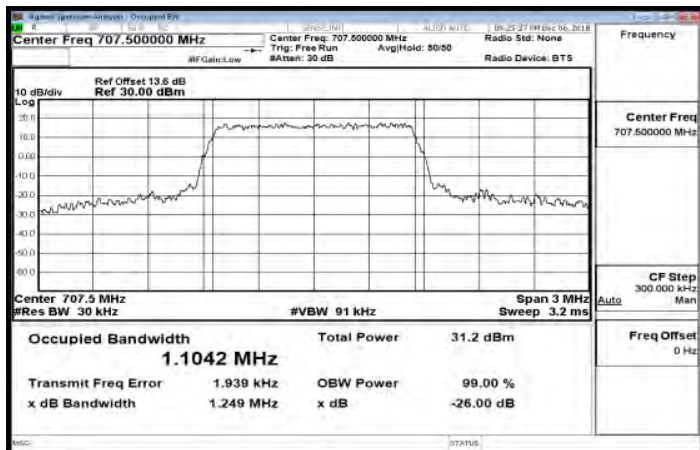
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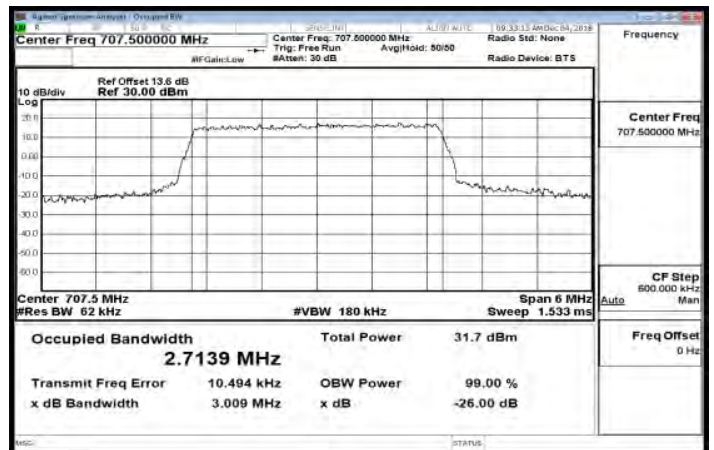
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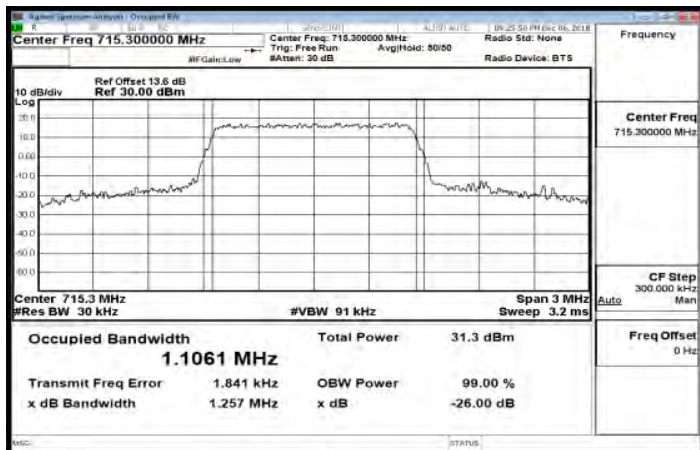
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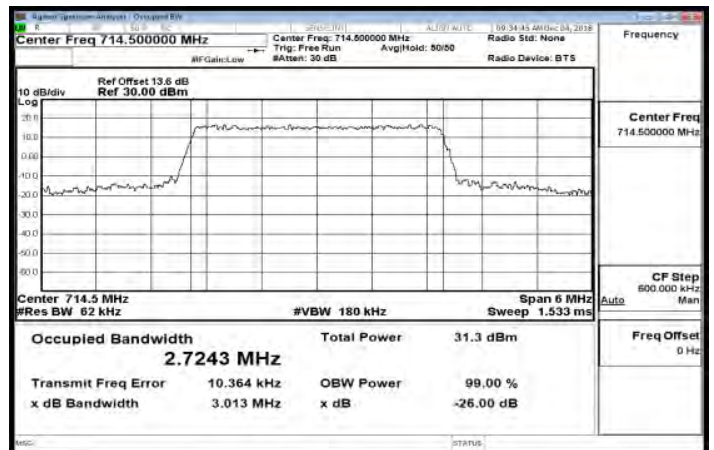
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Band12\_1\_4MHz\_64QAM\_6\_0\_HighCH23173-715.3



Band12\_3MHz\_QPSK\_15\_0\_HighCH23165-714.5



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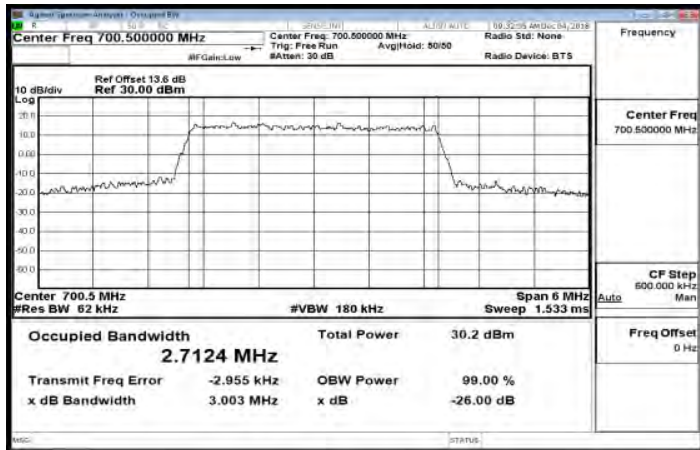
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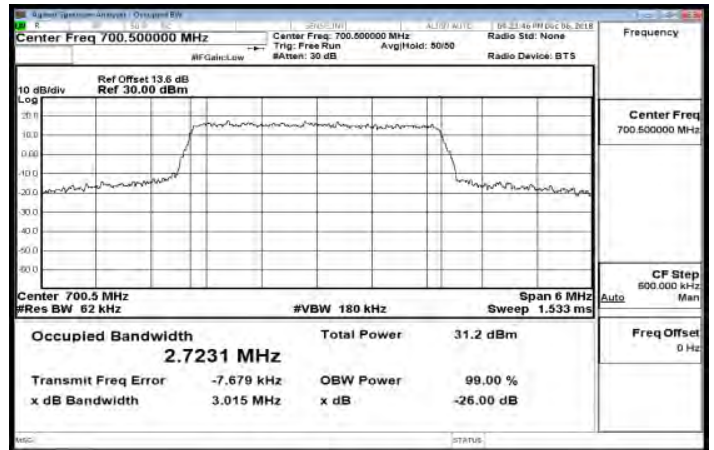
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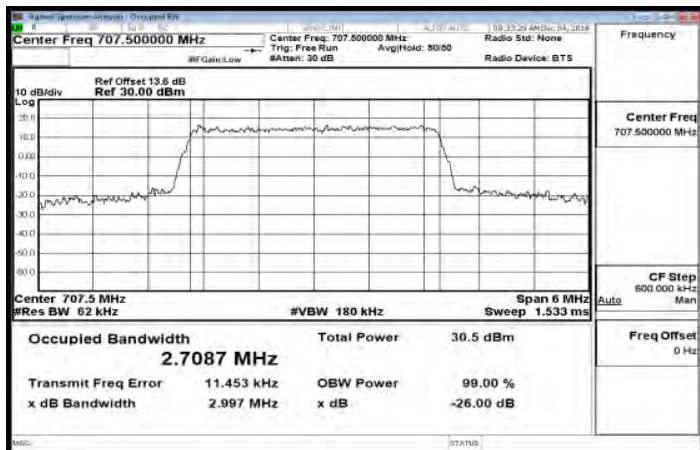
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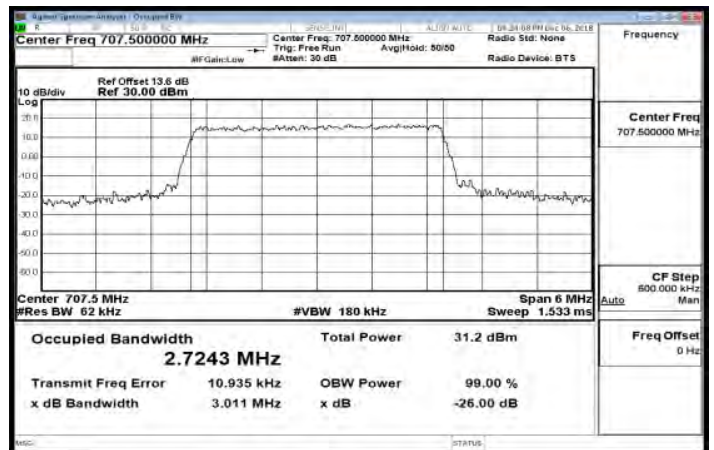
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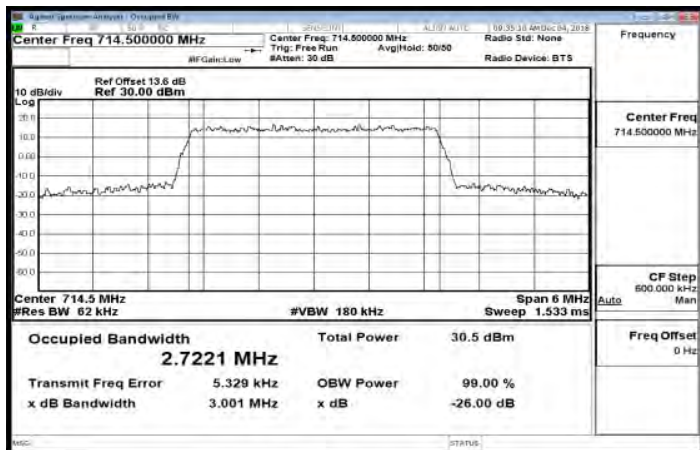
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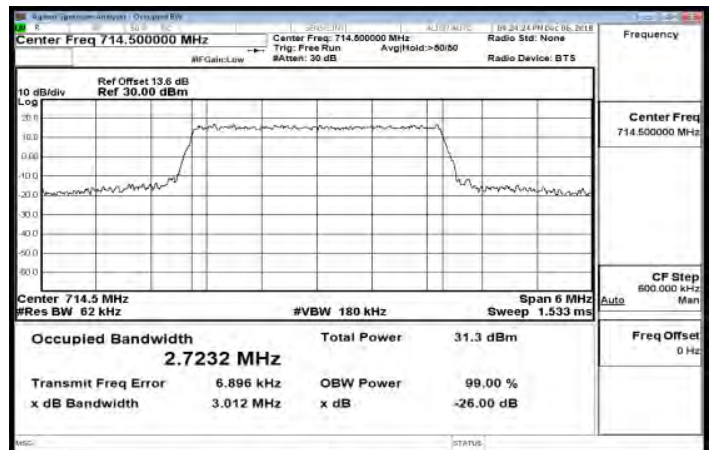
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Band12\_3MHz\_16QAM\_15\_0\_HighCH23165-714.5



Band12\_3MHz\_64QAM\_15\_0\_HighCH23165-714.5



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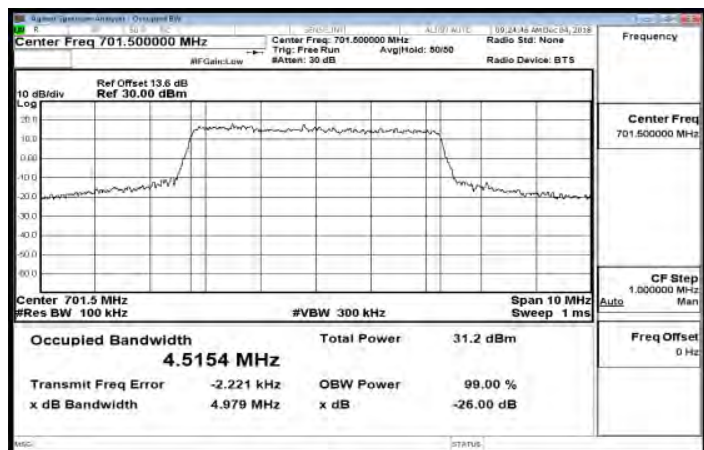
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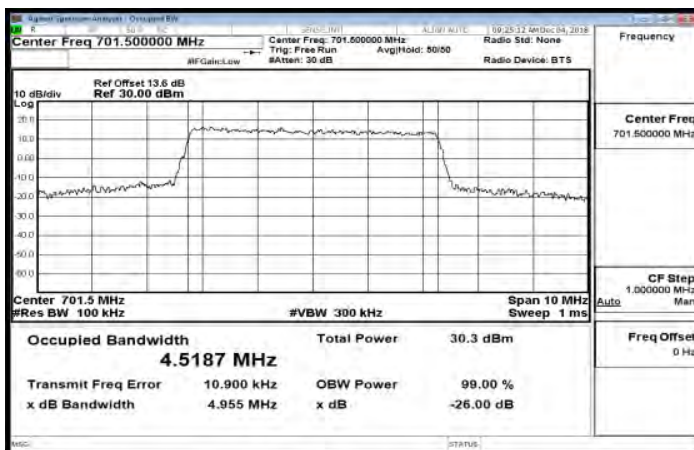
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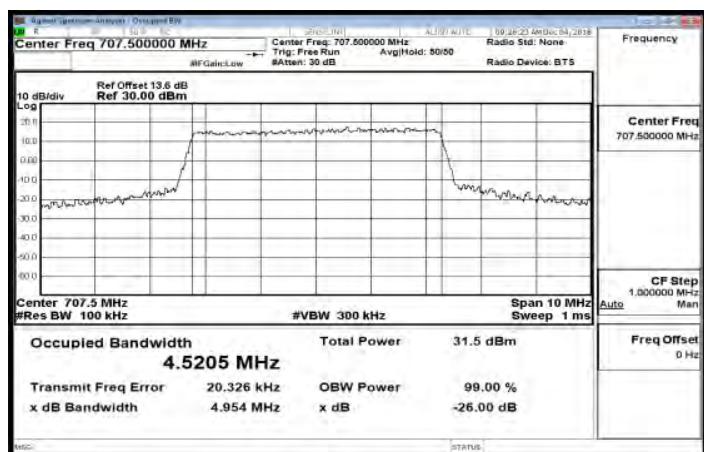
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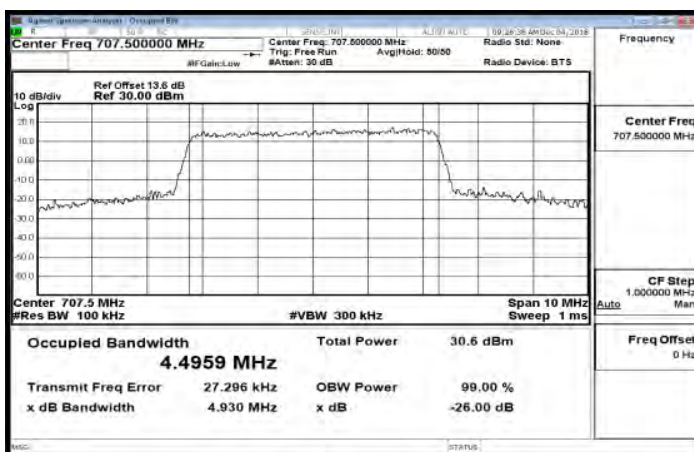
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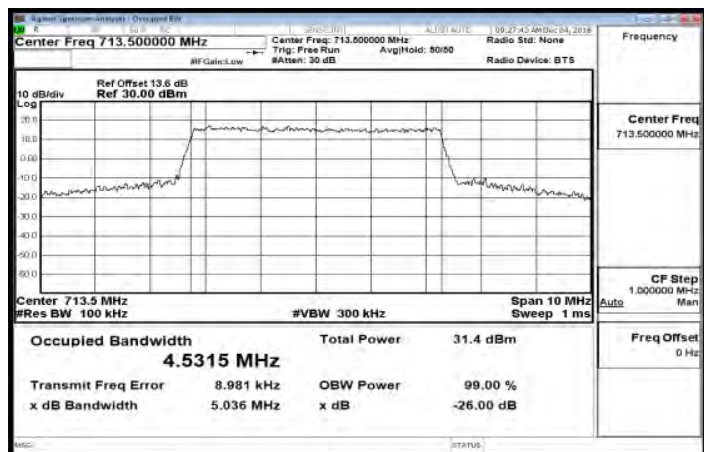
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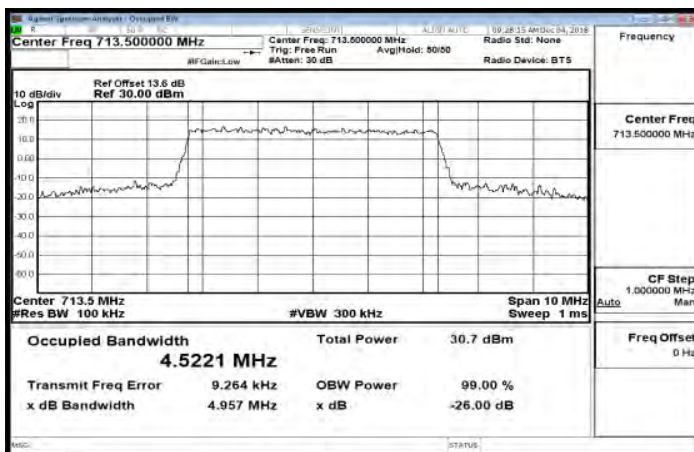
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Band12\_5MHz\_16QAM\_25\_0\_HighCH23155-713.5



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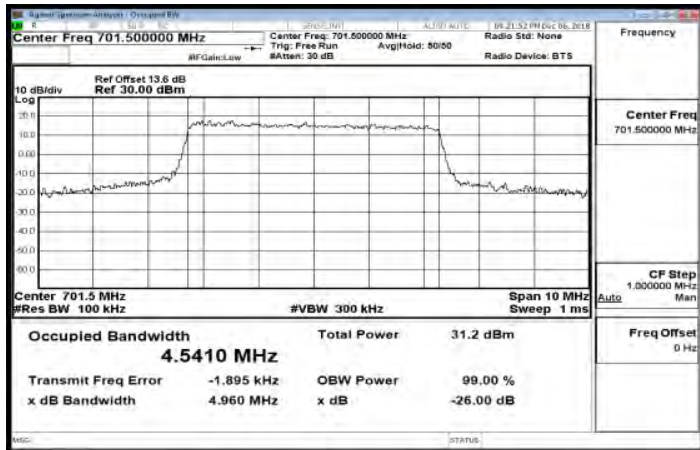
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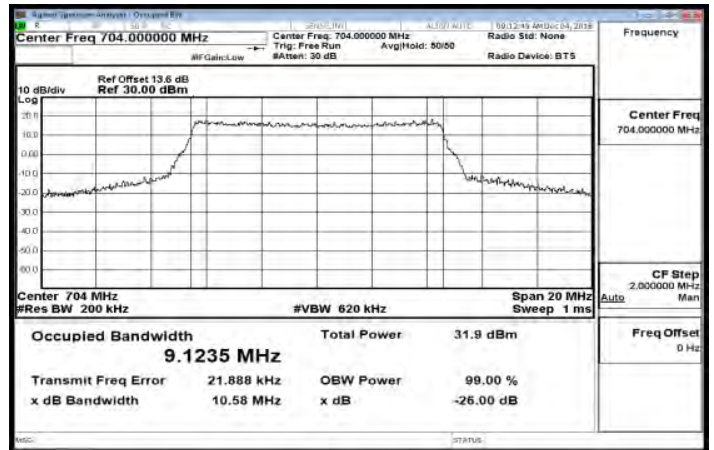
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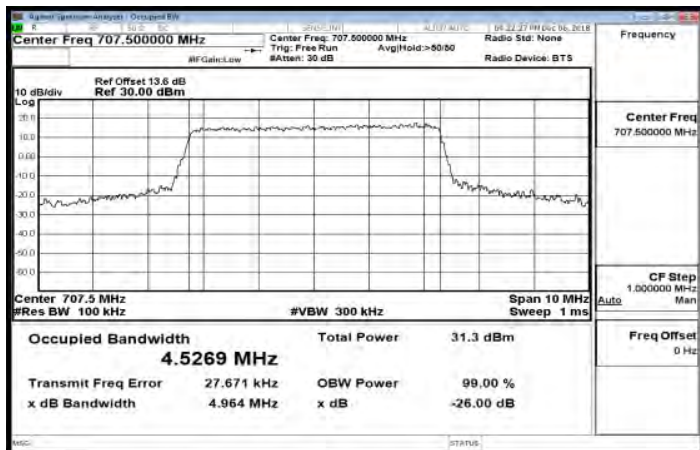
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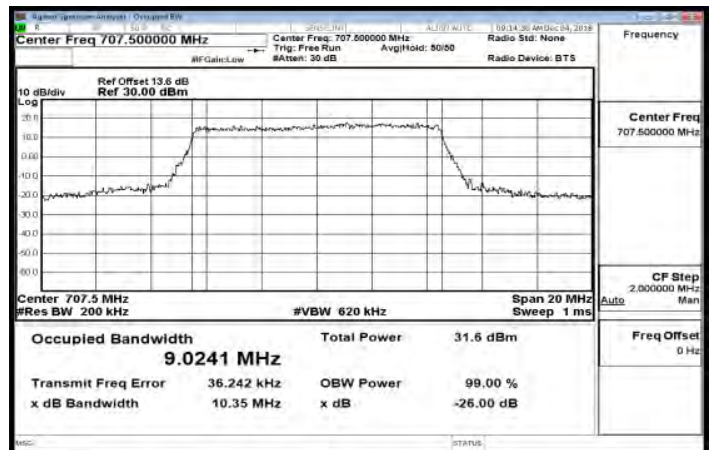
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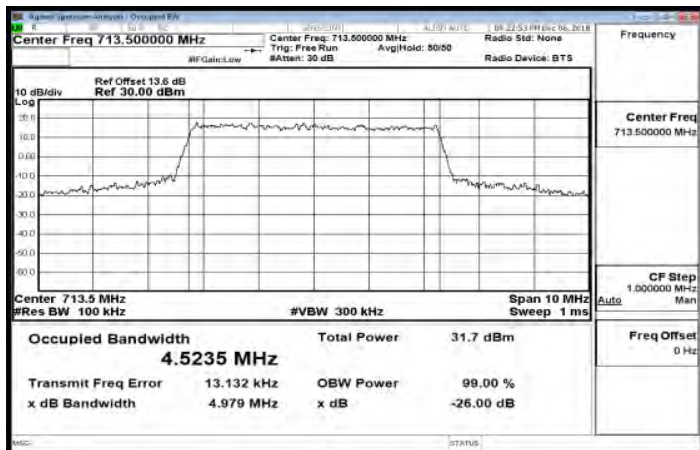
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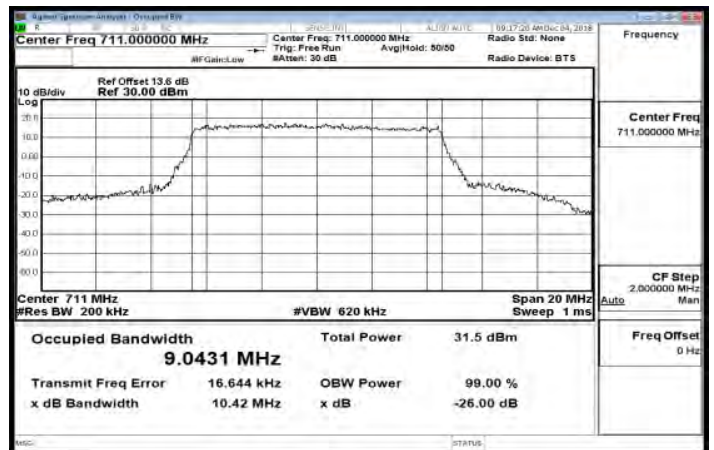
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Band12\_5MHz\_64QAM\_25\_0\_HighCH23155-713.5



Band12\_10MHz\_QPSK\_50\_0\_HighCH23130-711



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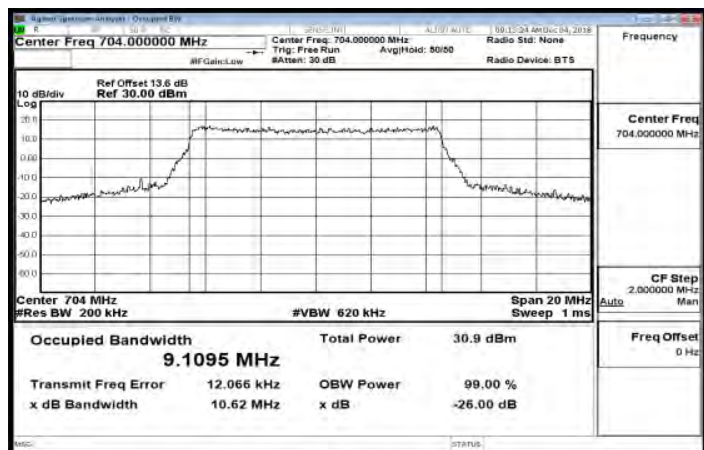
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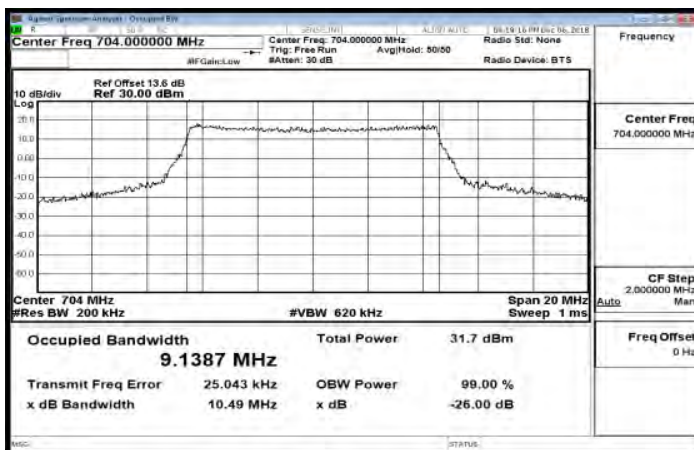
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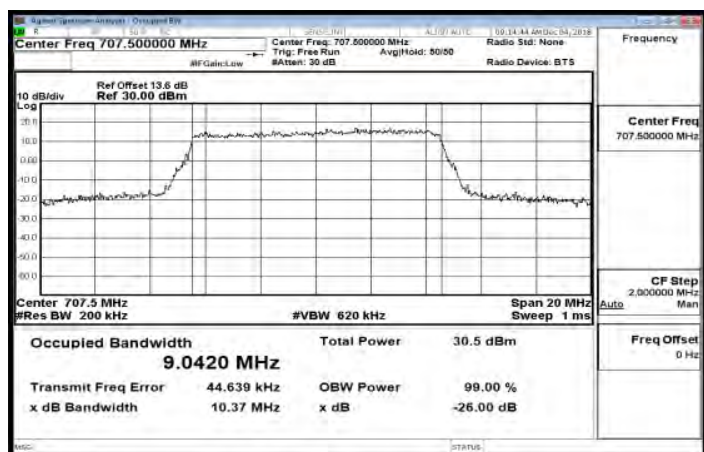
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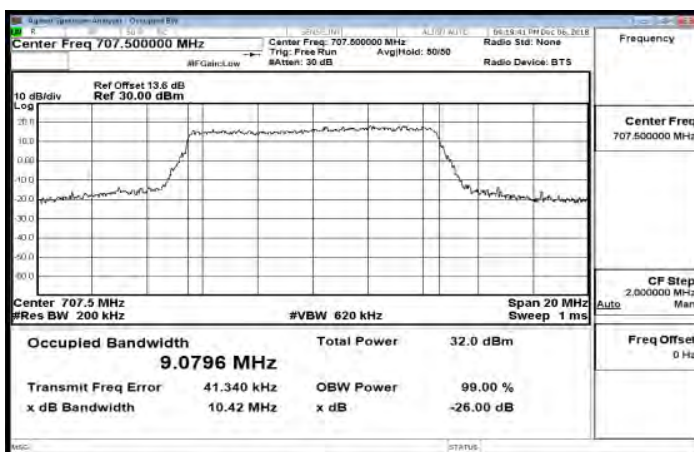
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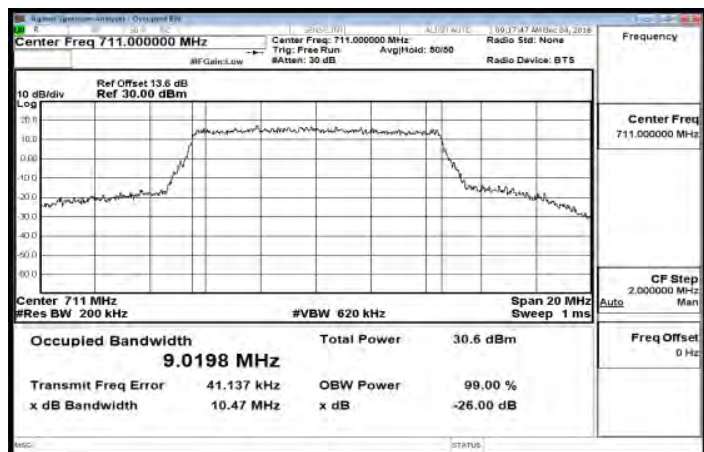
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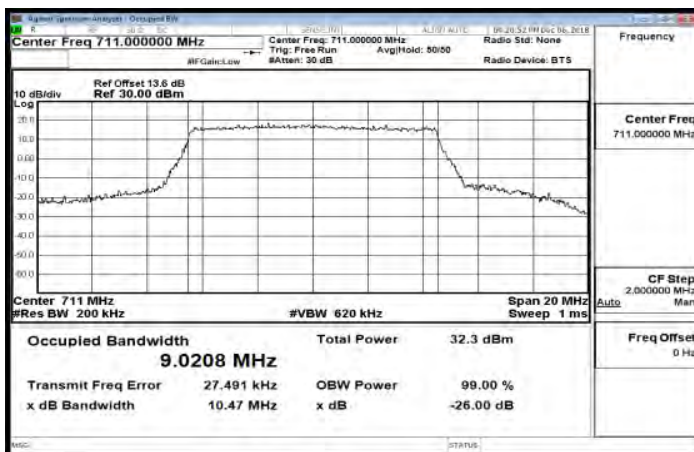
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Band12\_10MHz\_16QAM\_50\_0\_HighCH23130-711



Band12\_10MHz\_64QAM\_50\_0\_HighCH23130-711



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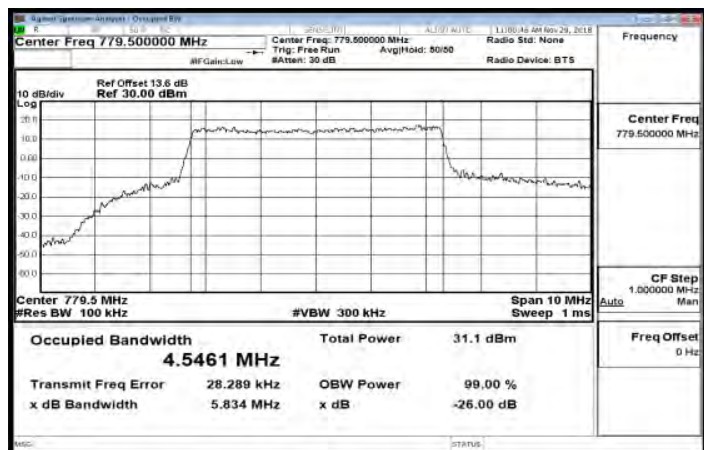
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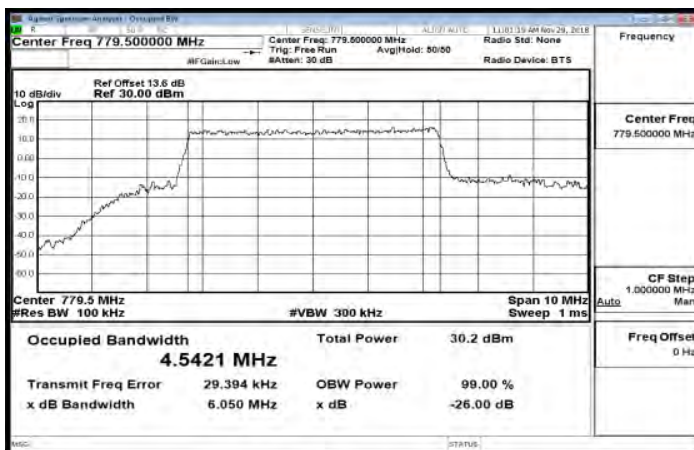
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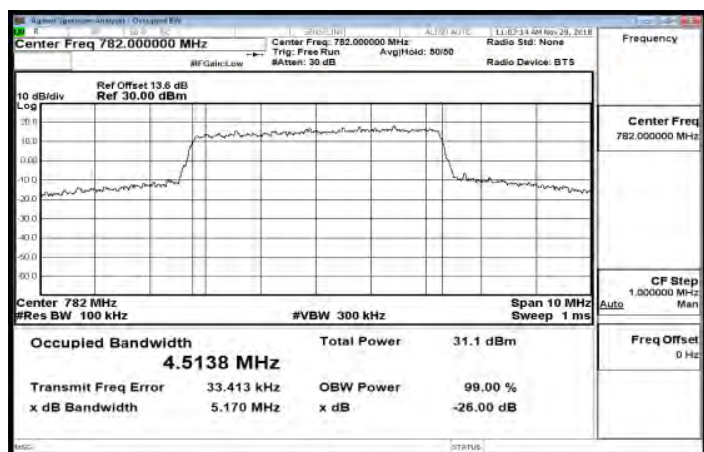
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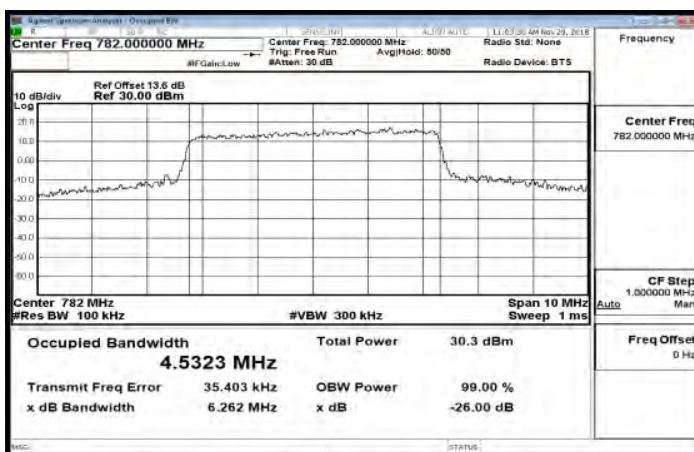
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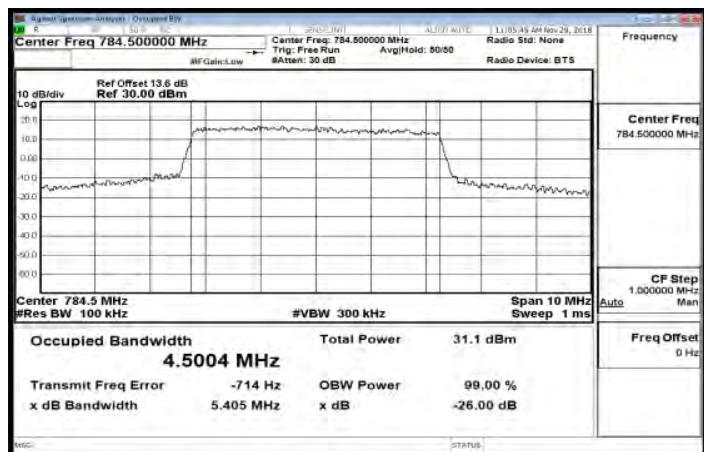
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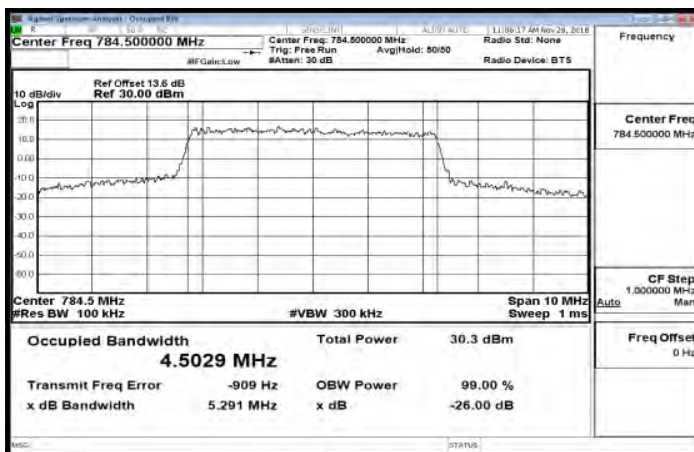
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Band13\_5MHz\_16QAM\_25\_0\_HighCH23255-784.5



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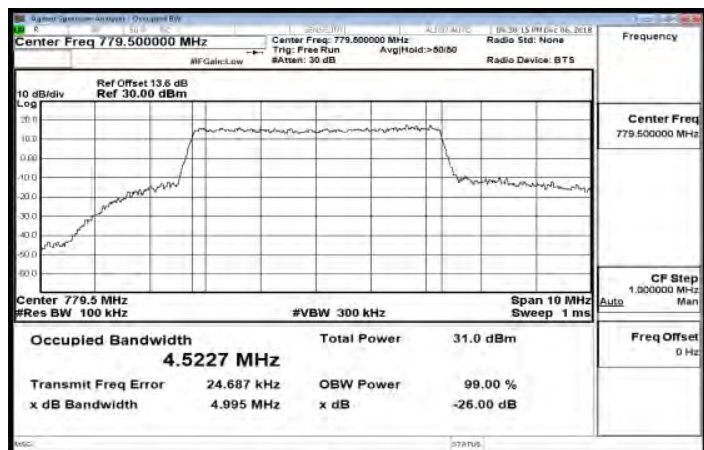
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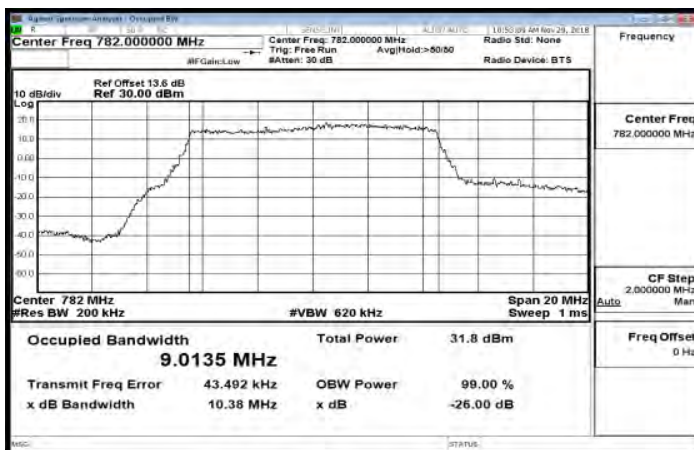
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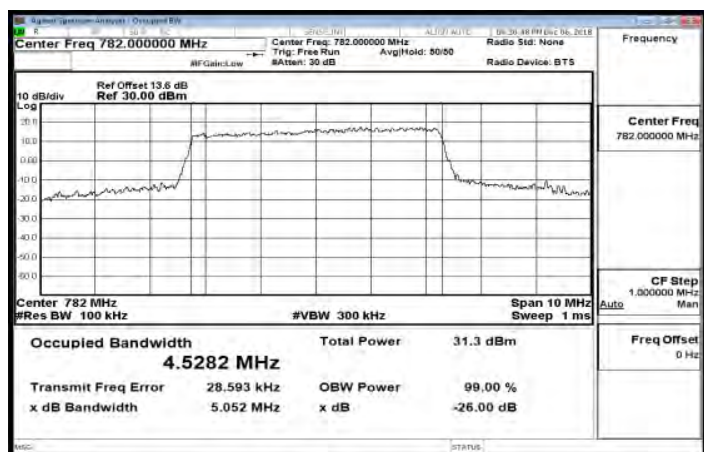
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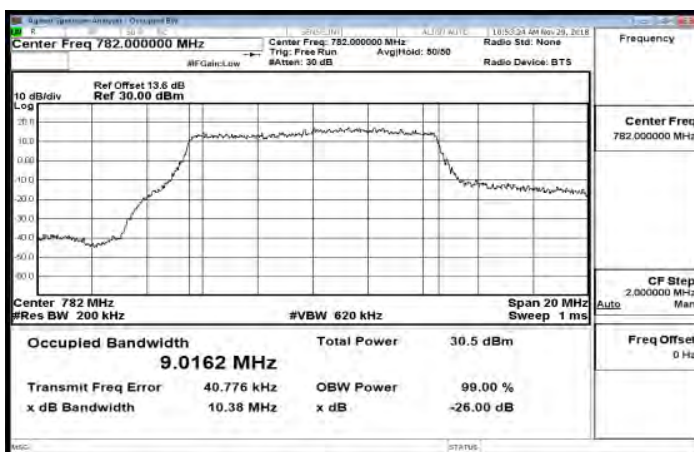
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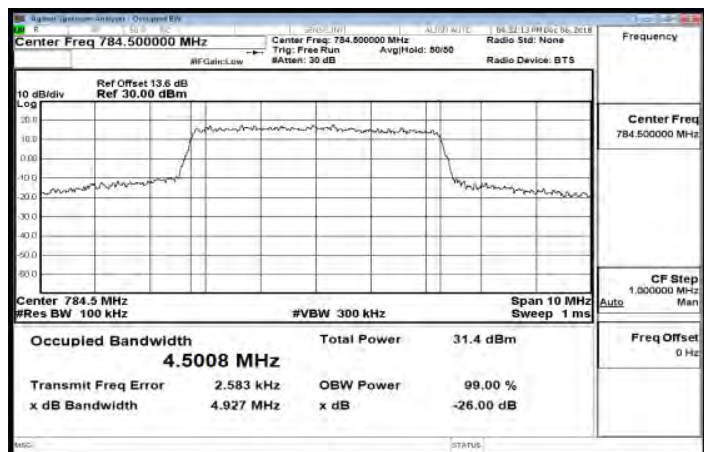
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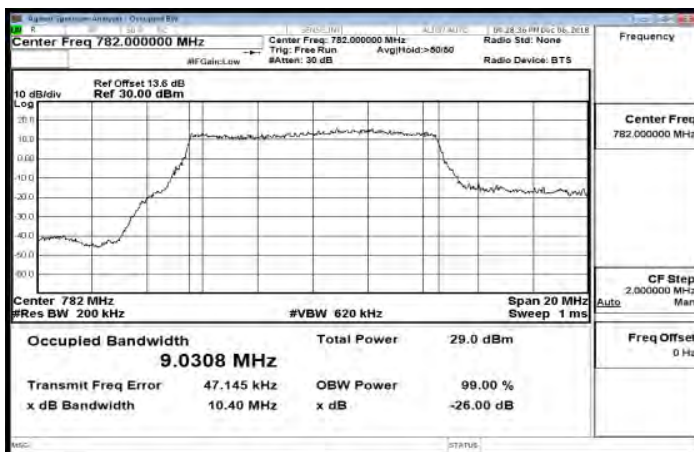
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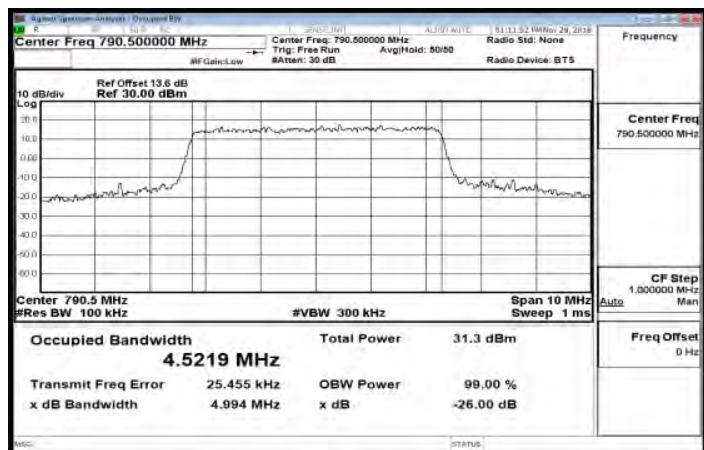
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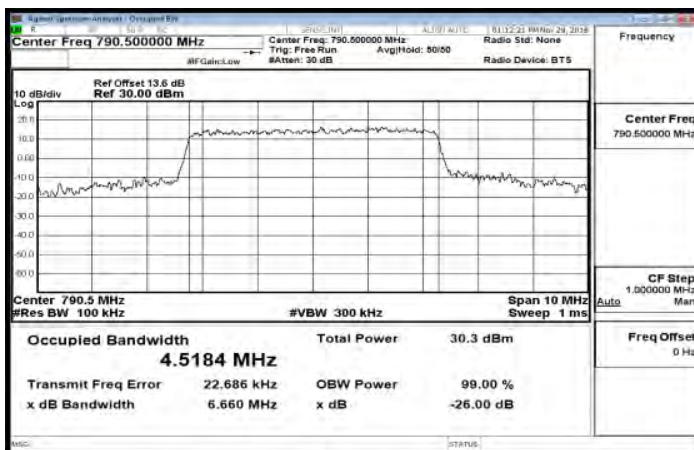
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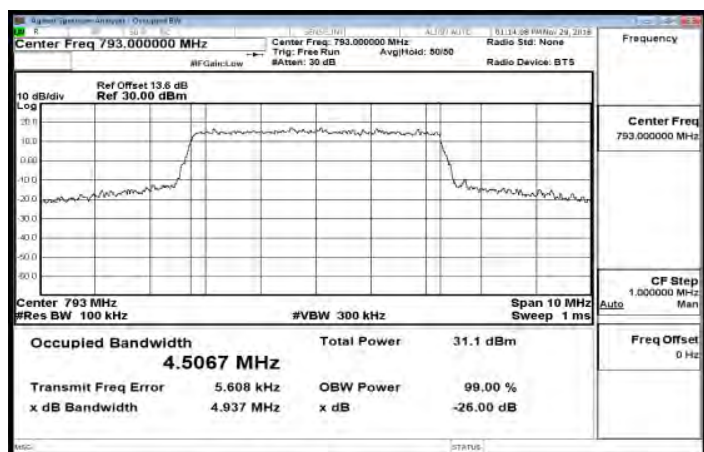
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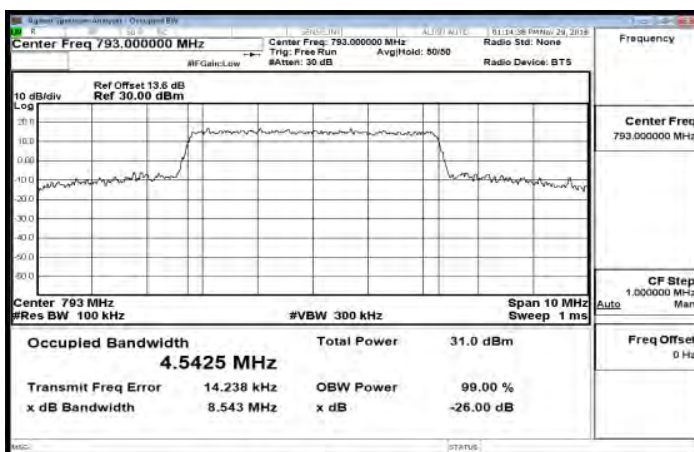
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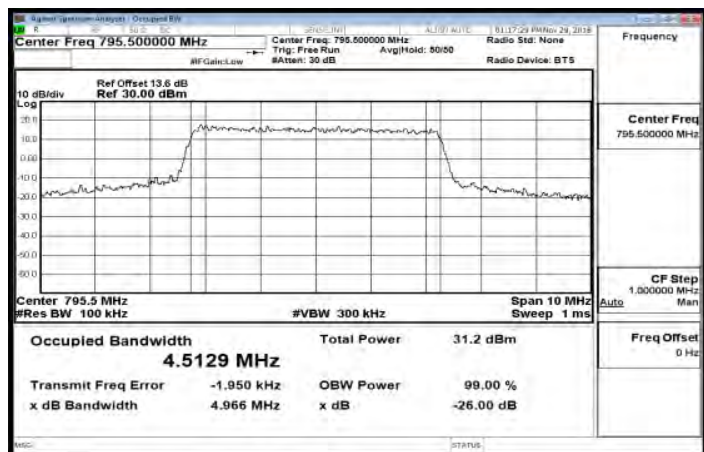
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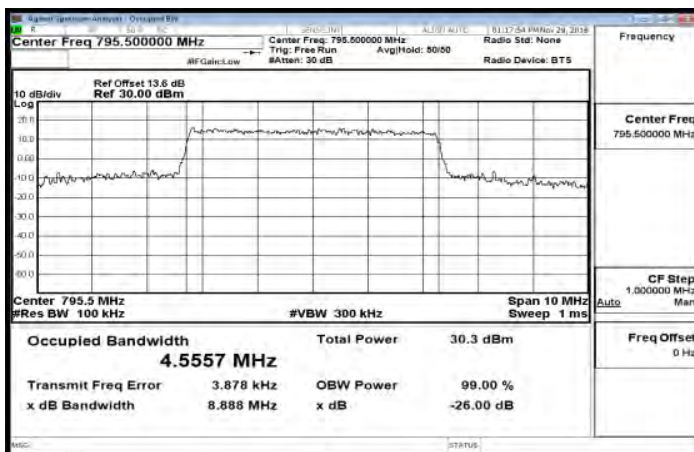
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Band14\_5MHz\_QPSK\_25\_0\_HighCH23355



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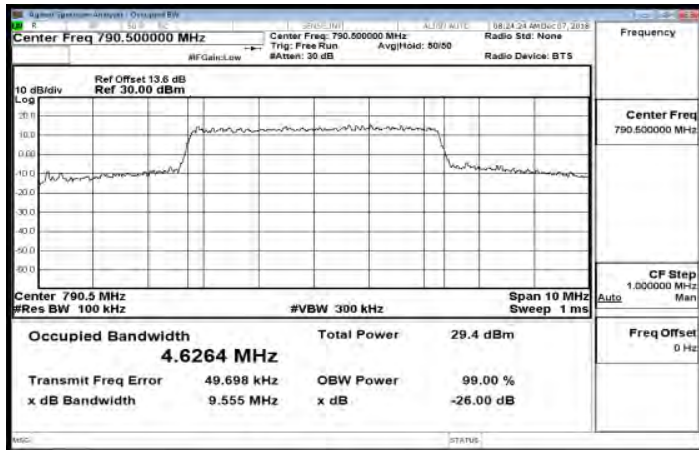
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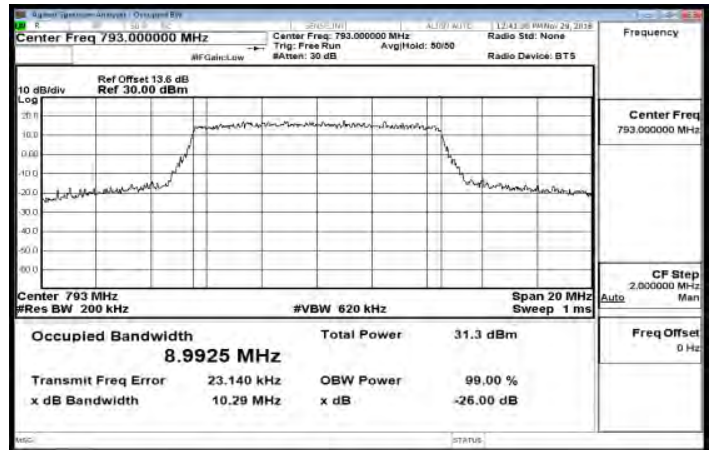
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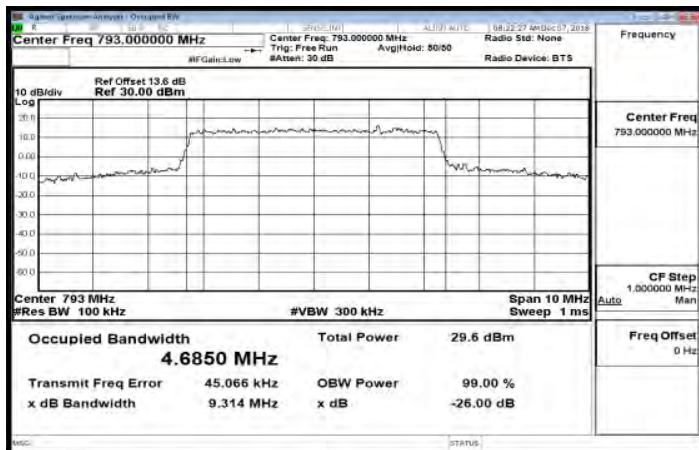
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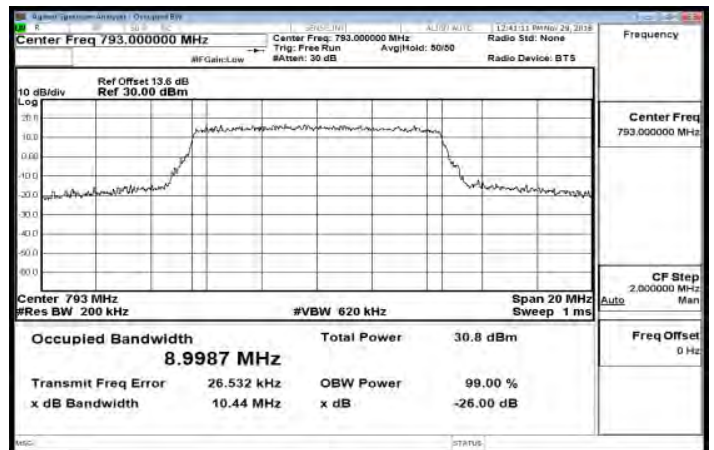
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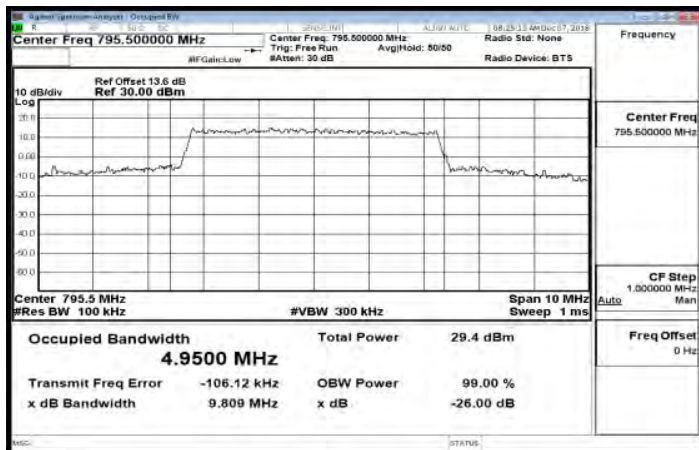
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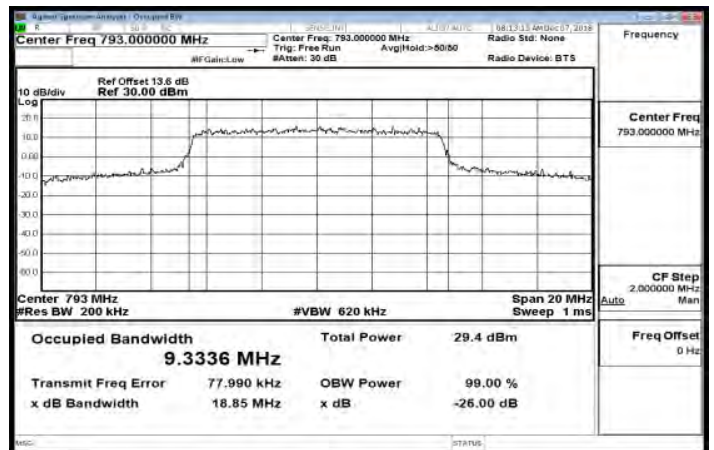
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Band14\_5MHz\_64QAM\_25\_0\_HighCH23355



Band14\_10MHz\_64QAM\_50\_0\_MidCH23330



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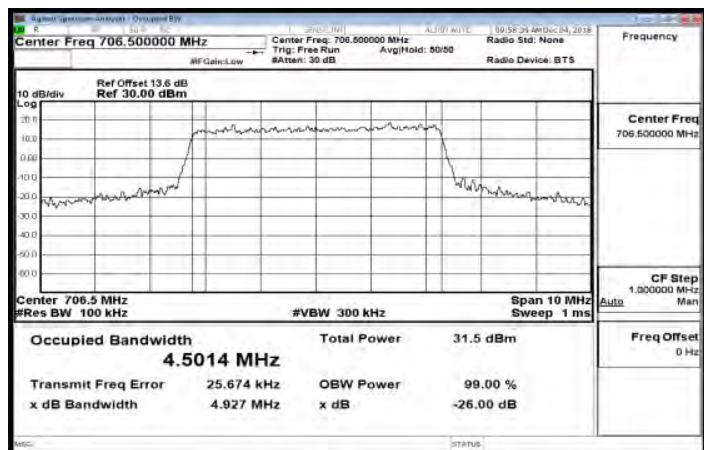
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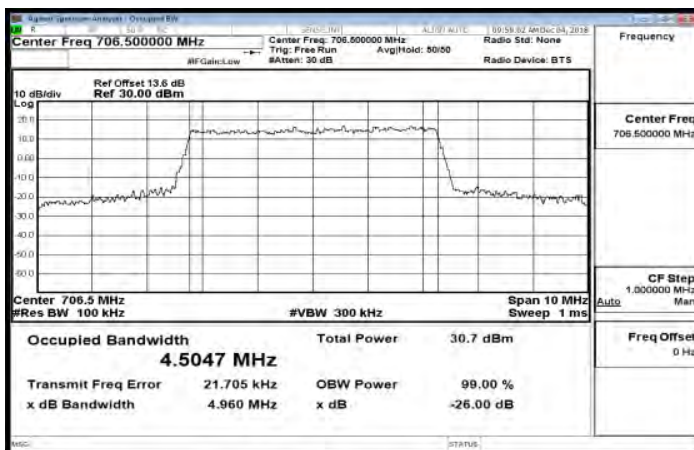
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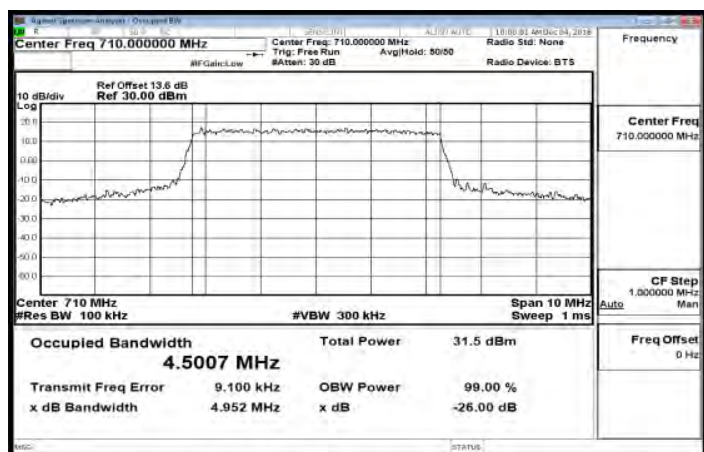
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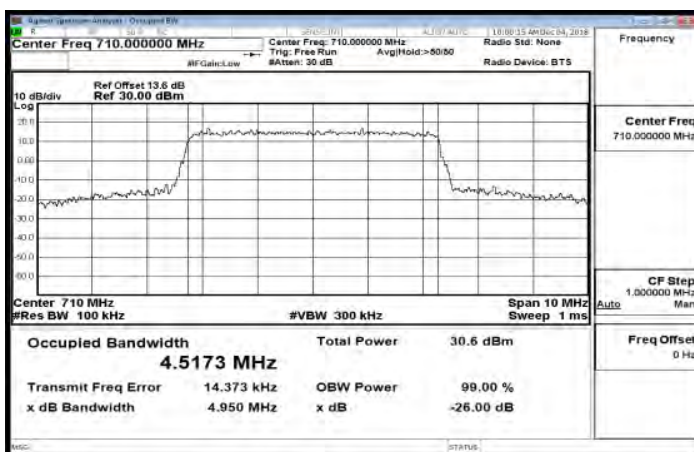
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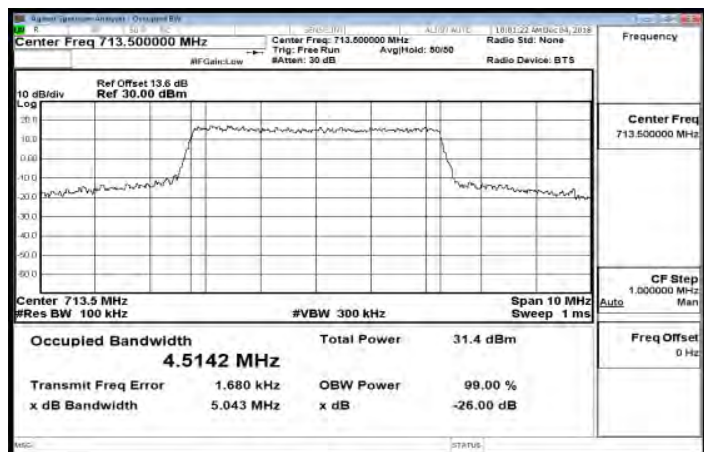
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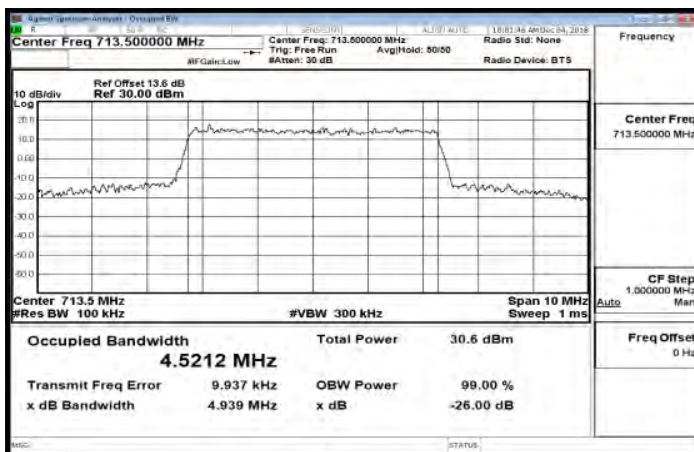
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Band17\_5MHz\_16QAM\_25\_0\_HighCH23825-713.5



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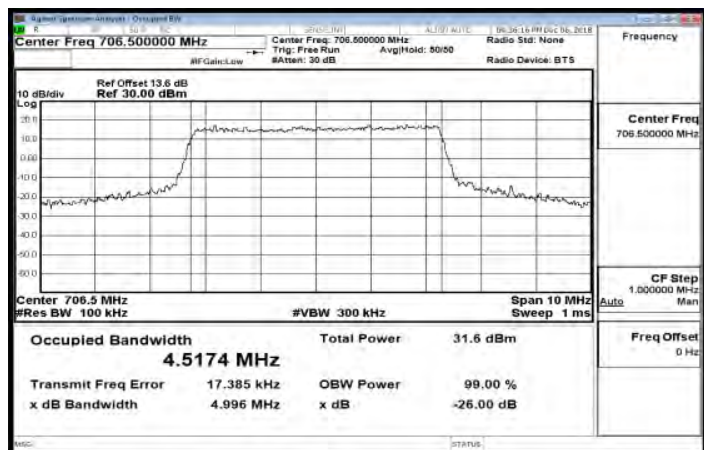
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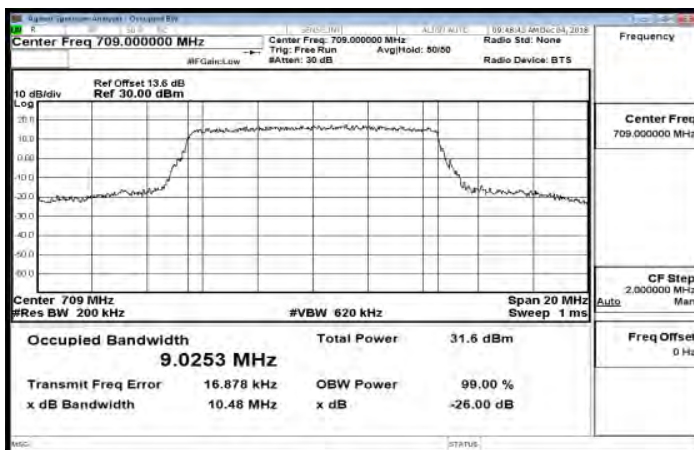
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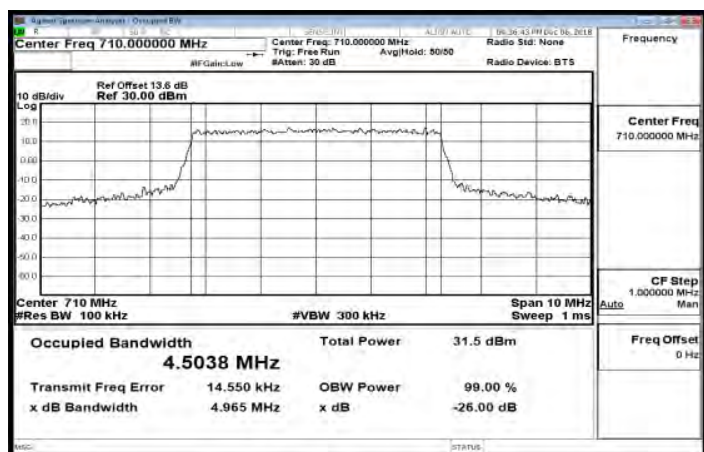
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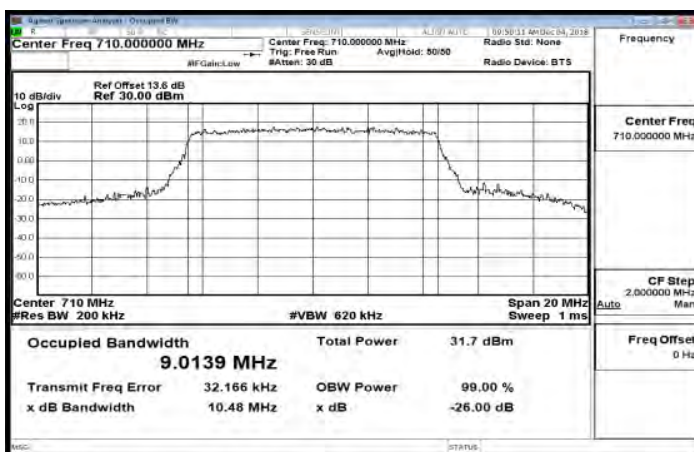
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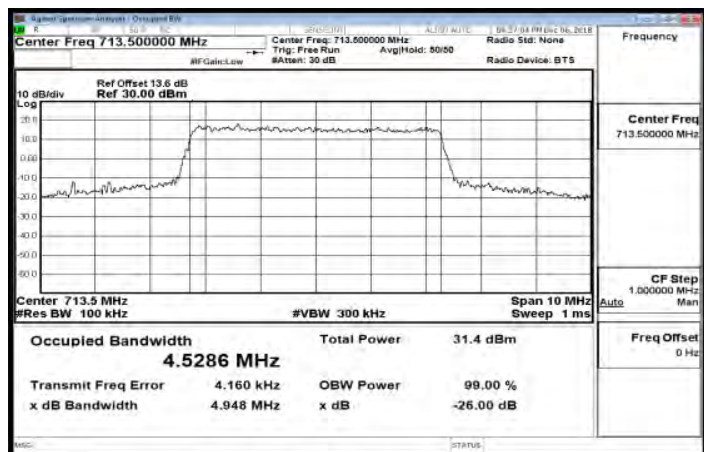
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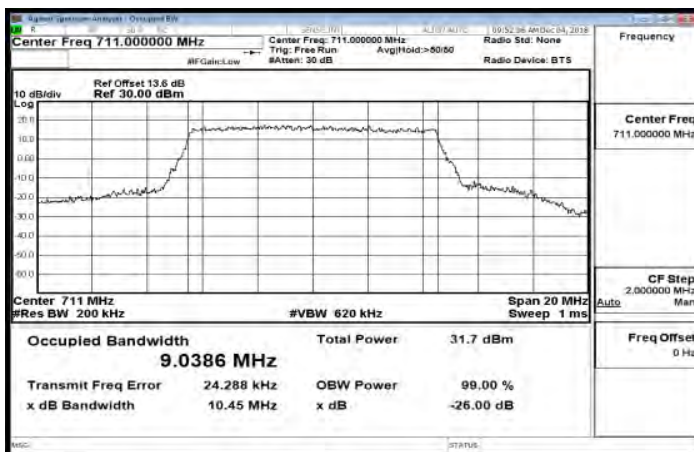
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Band17\_10MHz\_QPSK\_50\_0\_HighCH23800-711



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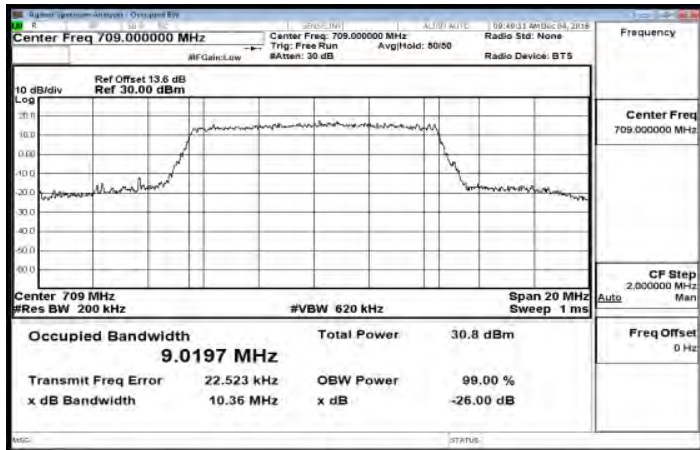
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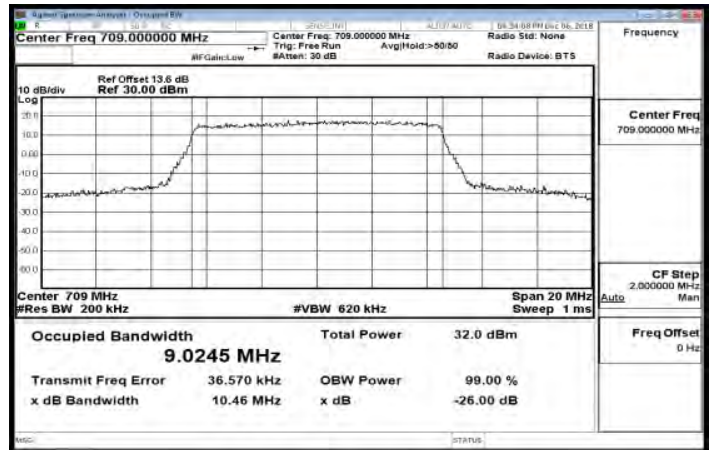
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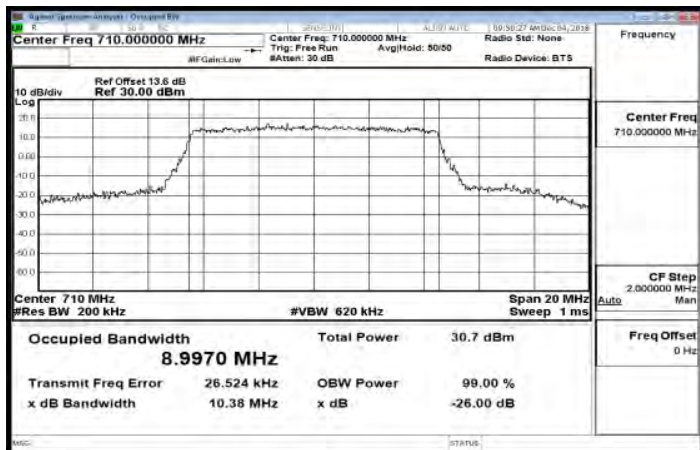
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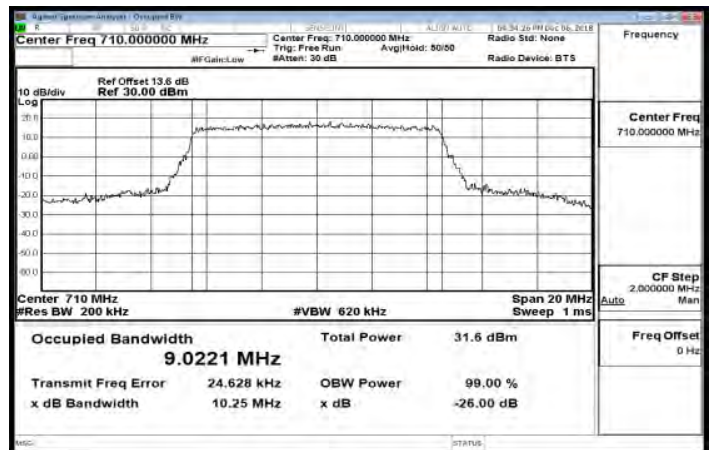
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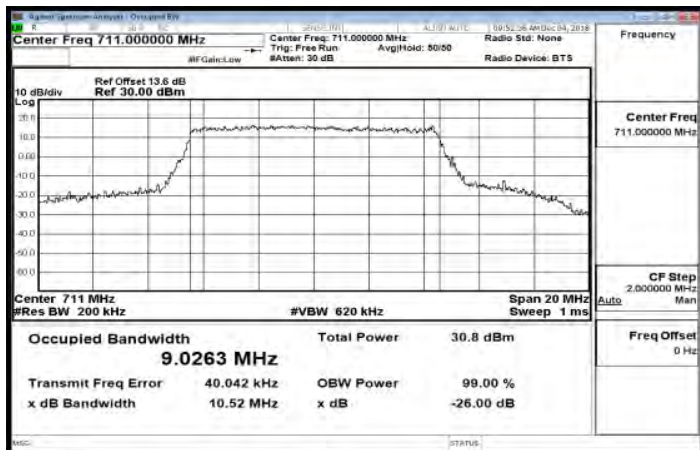
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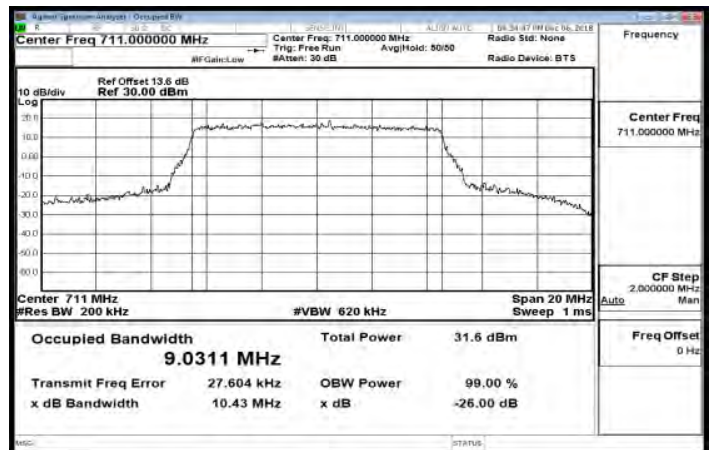
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Band17\_10MHz\_16QAM\_50\_0\_HighCH23800-711



Band17\_10MHz\_64QAM\_50\_0\_HighCH23800-711



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