

# ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT



**Applicant:** ASUSTeK COMPUTER INC.  
1F., No. 15, Lide Rd., Beitou Dist., Taipei City 112, Taiwan

**Product Name:** ASUS Phone (Mobile Phone)

**Brand Name:** ASUS

**Model No.:** ASUS\_I006D

**Model Difference:** N/A

**Report Number:** ER/2021/20010

**FCC ID** MSQI006D

**IC:** 3568A-I006D

**FCC Rule Part:** 2, 22H & 24E & 27 C & 90S

**ISED Rule:** RSS-Gen, 130, 132, 133, 139, 195, 199

**Issue Date:** April 14, 2021

**Date of Test:** January 26, 2021 - April 9, 2021

**Date of EUT Received:** January 26, 2021

**We hereby certify that:**

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab. 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.

**Approved By:**

**Blue Yang / Asst. Manager**

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

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## Revision History

Report Number	Revision	Description	Issue Date	Revised By
ER/2021/20010	Rev.00	Original.	April 14, 2021	Karen Huang

**Note:**

- 1、Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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## 1 GENERAL PRODUCT INFORMATION

### 1.1 Product Description

General:

Product Name:	ASUS Phone (Mobile Phone)
Brand Name:	ASUS
Model No.:	ASUS_I006D
Model Difference:	N/A
Hardware Version:	V4
Software Version:	Android 11
Power Supply:	3.87Vdc from Rechargeable Li-Polymer Battery Pack or 5 / 9 / 12 / 15 / 20Vdc from AC/DC adapter
IMEI:	004400152020000

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## 1.2 Operation Frequency Range

Operating Frequency (MHz)		
GSM/GPRS/EDGE 850	824.2	- 848.8
GSM/GPRS/EDGE 1900	1850.2	- 1909.8

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

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

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

LTE Band 25		
BW (MHz)	Operation Frequency (MHz)	
1.4	1850.7	- 1914.3
3	1851.5	- 1913.5
5	1852.5	- 1912.5
10	1855.0	- 1910.0
15	1857.5	- 1907.5
20	1860.0	- 1905.0

LTE Band 4		
BW (MHz)	Operation Frequency (MHz)	
1.4	1710.7	- 1754.3
3	1711.5	- 1753.5
5	1712.5	- 1752.5
10	1715.0	- 1750.0
15	1717.5	- 1747.5
20	1720.0	- 1745.0

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

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

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

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LTE Band 26 Part 90			
BW (MHz)	Operation Frequency (MHz)		
1.4	814.7	-	823.3
3	815.5	-	822.5
5	816.5	-	821.5
10	819.0		
LTE Band 38			
BW (MHz)	Operation Frequency (MHz)		
5	2572.5	-	2617.5
10	2575.0	-	2615.0
15	2577.5	-	2612.5
20	2580.0	-	2610.0
LTE Band 66			
BW (MHz)	Operation Frequency (MHz)		
1.4	1710.7	-	1779.3
3	1711.5	-	1778.5
5	1712.5	-	1777.5
10	1715.0	-	1775.0
15	1717.5	-	1772.5
20	1720.0	-	1770.0

LTE Band 30			
BW (MHz)	Operation Frequency (MHz)		
5	2307.5	-	2312.5
10	2310.0		
LTE Band 41			
BW (MHz)	Operation Frequency (MHz)		
5	2498.5	-	2687.5
10	2501.0	-	2685.0
15	2503.5	-	2682.5
20	2506.0	-	2680.0

LTE Band 71			
BW (MHz)	Operation Frequency (MHz)		
5	665.5	-	695.5
10	688.0	-	693.0
15	670.5	-	690.5
20	673.0	-	688.0

*Note: Operation frequency 814~824MHz is disabled in Canada.*

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### 1.3 Antenna Designation

Antenna Type	Antenna Model No.
PIFA	Ant1
	Ant2
	Ant3
	Ant4
<b>Note:</b> The EUT equipped with multiple antennas, however, transmission of 4G LTE bands are available by the above antenna model numbers.	

Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)			
		Ant1	Ant2	Ant3	Ant4
GSM / GPRS / EDGE 1900 WCDMA / HSPA Band II	1850 ~ 1910	-	0.36	-	-
WCDMA / HSPA Band IV	1710 ~ 1755	-	-1.24	-	-
GSM / GPRS / EDGE 850 WCDMA / HSPA Band V	824 ~ 849	-5.70	-	-5.80	-
LTE-Band 2	1850 ~ 1910	-	0.36	-	-
LTE-Band 4	1710 ~ 1755	-	-1.24	-	-
LTE-Band 5	824 ~ 849	-5.70	-	-5.80	-
LTE-Band 7	2500 ~ 2570	-3.60	0.03	-4.30	-2.21
LTE-Band 12	699 ~ 716	-3.90	-	-6.10	-
LTE-Band 17	704 ~ 716	-4.40	-	-7.20	-
LTE-Band 25	1850 ~ 1915	-	0.36	-	-
LTE-Band 26	824 ~ 849	-5.70	-	-5.80	-
LTE-Band 26 Part 90	814 ~ 824	-7.20	-	-5.80	-
LTE-Band 30	2305 ~ 2315	-	-1.61	-	-
LTE-Band 38	2570 ~ 2620	-	-0.79	-	-
LTE-Band 41	2496 ~ 2690	-	0.03	-	-
LTE-Band 66	1710 ~ 1780	-	-0.09	-	-
LTE-Band 71	663 ~ 698	-2.80	-	-5.60	-

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

	ERP / EIRP (dBm)		W	99%	Type of Emission
GSM 850	25.23	ERP	0.333	0.2463	246KGXW
GPRS 850	25.30	ERP	0.339	0.2490	249KGXW
EDGE 850	19.41	ERP	0.087	0.2483	248KG7W
GSM 1900	29.80	EIRP	0.955	0.2457	246KGXW
GPRS 1900	29.63	EIRP	0.918	0.2445	244KGXW
EDGE 1900	26.17	EIRP	0.414	0.2460	246KG7W
	ERP / EIRP (dBm)		W	99%	Type of Emission
WCDMA Band II	23.45	EIRP	0.221	4.1412	4M14F9W
HSDPA Band II	22.36	EIRP	0.172	4.1393	4M14F9W
HSUPA Band II	22.45	EIRP	0.176	4.1443	4M14F9W
WCDMA Band IV	22.23	EIRP	0.167	4.1428	4M14F9W
HSDPA Band IV	21.18	EIRP	0.131	4.1464	4M15F9W
HSUPA Band IV	21.20	EIRP	0.132	4.1445	4M14F9W
WCDMA Band V	16.04	ERP	0.040	4.1571	4M16F9W
HSDPA Band V	14.95	ERP	0.031	4.1536	4M15F9W
HSUPA Band V	14.99	ERP	0.032	4.1549	4M15F9W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
2	1.4	QPSK	22.65	EIRP	0.184	1.0864	1M09G7D
		16QAM	21.69	EIRP	0.148	1.0857	1M09D7W
		64QAM	20.69	EIRP	0.117	1.0857	1M09D7W
2	3	QPSK	22.74	EIRP	0.188	2.6873	2M69G7D
		16QAM	21.64	EIRP	0.146	2.6882	2M69D7W
		64QAM	20.64	EIRP	0.116	2.6908	2M69D7W
2	5	QPSK	22.75	EIRP	0.188	4.4774	4M48G7D
		16QAM	21.68	EIRP	0.147	4.4826	4M48D7W
		64QAM	20.71	EIRP	0.118	4.4883	4M49D7W
2	10	QPSK	22.70	EIRP	0.186	8.9646	8M96G7D
		16QAM	21.74	EIRP	0.149	8.9360	8M94D7W
		64QAM	20.71	EIRP	0.118	8.9526	8M95D7W
2	15	QPSK	22.75	EIRP	0.188	13.437	13M4G7D
		16QAM	21.70	EIRP	0.148	13.428	13M4D7W
		64QAM	20.70	EIRP	0.117	13.418	13M4D7W
2	20	QPSK	22.78	EIRP	0.190	17.895	17M9G7D
		16QAM	21.75	EIRP	0.150	17.911	17M9D7W
		64QAM	20.71	EIRP	0.118	17.869	17M9D7W
4	1.4	QPSK	21.18	EIRP	0.131	1.0852	1M09G7D
		16QAM	20.21	EIRP	0.105	1.0865	1M09D7W
		64QAM	19.23	EIRP	0.084	1.1001	1M10D7W
4	3	QPSK	21.24	EIRP	0.133	2.6839	2M68G7D
		16QAM	20.25	EIRP	0.106	2.6915	2M69D7W
		64QAM	19.23	EIRP	0.084	2.6900	2M69D7W
4	5	QPSK	21.24	EIRP	0.133	4.4756	4M48G7D
		16QAM	20.18	EIRP	0.104	4.4777	4M48D7W
		64QAM	19.23	EIRP	0.084	4.4946	4M49D7W
4	10	QPSK	21.23	EIRP	0.133	8.9645	8M96G7D
		16QAM	20.20	EIRP	0.105	8.9379	8M94D7W
		64QAM	19.18	EIRP	0.083	8.9373	8M94D7W
4	15	QPSK	21.21	EIRP	0.132	13.6010	13M6G7D
		16QAM	20.19	EIRP	0.104	13.4350	13M4D7W
		64QAM	19.24	EIRP	0.084	13.4110	13M4D7W
4	20	QPSK	21.27	EIRP	0.134	17.9090	17M9G7D
		16QAM	20.12	EIRP	0.103	18.0760	18M1D7W
		64QAM	19.22	EIRP	0.084	17.8840	17M9D7W

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
5	1.4	QPSK	15.32	ERP	0.034	1.0853	1M09G7D
		16QAM	14.28	ERP	0.027	1.0859	1M09D7W
		64QAM	13.32	ERP	0.021	1.0847	1M08D7W
5	3	QPSK	15.26	ERP	0.034	2.6913	2M69G7D
		16QAM	14.31	ERP	0.027	2.6900	2M69D7W
		64QAM	13.24	ERP	0.021	2.6939	2M69D7W
5	5	QPSK	15.26	ERP	0.034	4.4830	4M48G7D
		16QAM	14.26	ERP	0.027	4.4822	4M48D7W
		64QAM	13.24	ERP	0.021	4.4957	4M50D7W
5	10	QPSK	15.35	ERP	0.034	8.9649	8M96G7D
		16QAM	14.31	ERP	0.027	8.9388	8M94D7W
		64QAM	13.33	ERP	0.022	8.9424	8M94D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
7	5	QPSK	22.60	EIRP	0.182	4.4801	4M48G7D
		16QAM	21.60	EIRP	0.145	4.4790	4M48D7W
		64QAM	20.60	EIRP	0.115	4.4894	4M49D7W
7	10	QPSK	22.65	EIRP	0.184	8.9526	8M95G7D
		16QAM	21.58	EIRP	0.144	8.9310	8M93D7W
		64QAM	20.59	EIRP	0.115	8.9551	8M96D7W
7	15	QPSK	22.62	EIRP	0.183	13.4600	13M5G7D
		16QAM	21.55	EIRP	0.143	13.5430	13M5D7W
		64QAM	20.55	EIRP	0.114	13.4120	13M4D7W
7	20	QPSK	22.80	EIRP	0.191	17.8800	17M9G7D
		16QAM	21.65	EIRP	0.146	17.9190	17M9D7W
		64QAM	20.60	EIRP	0.115	18.0600	18M1D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
12	1.4	QPSK	17.10	ERP	0.051	1.0852	1M09G7D
		16QAM	16.16	ERP	0.041	1.0851	1M09D7W
		64QAM	15.11	ERP	0.032	1.0847	1M08D7W
12	3	QPSK	17.16	ERP	0.052	2.6878	2M69G7D
		16QAM	16.04	ERP	0.040	2.6916	2M69D7W
		64QAM	15.09	ERP	0.032	2.6943	2M69D7W
12	5	QPSK	17.15	ERP	0.052	4.4756	4M48G7D
		16QAM	16.10	ERP	0.041	4.4815	4M48D7W
		64QAM	15.11	ERP	0.032	4.4845	4M48D7W
12	10	QPSK	17.18	ERP	0.052	8.9697	8M97G7D
		16QAM	16.08	ERP	0.041	8.9292	8M93D7W
		64QAM	15.07	ERP	0.032	8.9414	8M94D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
17	5	QPSK	16.54	ERP	0.045	4.4796	4M48G7D
		16QAM	15.57	ERP	0.036	4.4819	4M48D7W
		64QAM	14.53	ERP	0.028	4.4882	4M49D7W
17	10	QPSK	16.62	ERP	0.046	8.9439	8M94G7D
		16QAM	15.54	ERP	0.036	8.9312	8M93D7W
		64QAM	14.58	ERP	0.029	8.9391	8M94D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
25	1.4	QPSK	22.82	EIRP	0.191	1.0858	1M09G7D
		16QAM	21.76	EIRP	0.150	1.0852	1M09D7W
		64QAM	20.73	EIRP	0.118	1.0840	1M08D7W
25	3	QPSK	22.77	EIRP	0.189	2.6880	2M69G7D
		16QAM	21.74	EIRP	0.149	2.6886	2M69D7W
		64QAM	20.70	EIRP	0.117	2.6917	2M69D7W
25	5	QPSK	22.76	EIRP	0.189	4.4802	4M48G7D
		16QAM	21.79	EIRP	0.151	4.4796	4M48D7W
		64QAM	20.75	EIRP	0.119	4.4986	4M50D7W
25	10	QPSK	22.75	EIRP	0.188	8.9684	8M97G7D
		16QAM	21.69	EIRP	0.148	8.9316	8M93D7W
		64QAM	20.78	EIRP	0.120	8.9476	8M95D7W
25	15	QPSK	22.74	EIRP	0.188	13.4480	13M4G7D
		16QAM	21.79	EIRP	0.151	13.4300	13M4D7W
		64QAM	20.75	EIRP	0.119	13.4190	13M4D7W
25	20	QPSK	22.82	EIRP	0.191	17.8770	17M9G7D
		16QAM	21.80	EIRP	0.151	17.9010	17M9D7W
		64QAM	20.78	EIRP	0.120	17.9100	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
26	1.4	QPSK	15.43	ERP	0.035	1.0855	1M09G7D
		16QAM	14.72	ERP	0.030	1.0853	1M09D7W
		64QAM	13.51	ERP	0.022	1.0841	1M08D7W
26	3	QPSK	15.49	ERP	0.035	2.6898	2M69G7D
		16QAM	14.98	ERP	0.031	2.6909	2M69D7W
		64QAM	13.75	ERP	0.024	2.6917	2M69D7W
26	5	QPSK	15.48	ERP	0.035	4.4805	4M48G7D
		16QAM	14.84	ERP	0.030	4.4869	4M49D7W
		64QAM	13.60	ERP	0.023	4.4903	4M49D7W
26	10	QPSK	15.45	ERP	0.035	8.9709	8M97G7D
		16QAM	14.89	ERP	0.031	8.9449	8M94D7W
		64QAM	13.59	ERP	0.023	8.9516	8M95D7W
26	15	QPSK	15.39	ERP	0.035	13.4410	13M4G7D
		16QAM	14.73	ERP	0.030	13.4200	13M4D7W
		64QAM	13.56	ERP	0.023	13.4250	13M4D7W

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LTE Band	BW	Modulation	Conducted (dBm)		(W)	99%	Type of Emission
26 Part90	1.4	QPSK	23.35	ERP	0.216	1.0849	1M08G7D
		16QAM	22.75	ERP	0.188	1.0864	1M09D7W
		64QAM	21.69	ERP	<b>0.148</b>	1.0837	1M08D7W
26 Part90	3	QPSK	20.65	ERP	0.116	2.6895	2M69G7D
		16QAM	22.83	ERP	<b>0.192</b>	2.6916	2M69D7W
		64QAM	21.62	ERP	0.145	2.6914	2M69D7W
26 Part90	5	QPSK	23.45	ERP	<b>0.221</b>	4.4780	4M48G7D
		16QAM	22.77	ERP	0.189	4.4842	4M48D7W
		64QAM	21.61	ERP	0.145	4.4895	4M49D7W
26 Part90	10	QPSK	23.44	ERP	0.221	8.9654	8M97G7D
		16QAM	22.77	ERP	0.189	8.9312	8M93D7W
		64QAM	21.41	ERP	0.138	8.9470	8M95D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm/5MHz)		(W)	99%	Type of Emission
30	5	QPSK	20.65	EIRP	0.116	4.4757	4M48G7D
		16QAM	19.64	EIRP	<b>0.092</b>	4.4822	4M48D7W
		64QAM	18.64	EIRP	<b>0.073</b>	4.4946	4M49D7W
30	10	QPSK	20.68	EIRP	<b>0.117</b>	8.9527	8M95G7D
		16QAM	19.62	EIRP	0.092	8.9231	8M92D7W
		64QAM	18.64	EIRP	<b>0.073</b>	8.9387	8M94D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
38	5	QPSK	22.13	EIRP	0.163	4.4790	4M48G7D
		16QAM	21.13	EIRP	0.130	4.4839	4M48D7W
		64QAM	20.12	EIRP	0.103	4.4811	4M48D7W
38	10	QPSK	22.12	EIRP	0.163	8.9712	8M97G7D
		16QAM	21.13	EIRP	0.130	8.9427	8M94D7W
		64QAM	20.09	EIRP	0.102	8.9571	8M96D7W
38	15	QPSK	22.14	EIRP	0.164	13.4430	13M4G7D
		16QAM	21.08	EIRP	0.128	13.4340	13M4D7W
		64QAM	20.13	EIRP	<b>0.103</b>	13.4100	13M4D7W
38	20	QPSK	22.16	EIRP	<b>0.164</b>	17.8770	17M9G7D
		16QAM	21.13	EIRP	<b>0.130</b>	17.9070	17M9D7W
		64QAM	20.13	EIRP	<b>0.103</b>	17.8810	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
41	5	QPSK	22.85	EIRP	0.193	4.4812	4M48G7D
		16QAM	21.87	EIRP	<b>0.154</b>	4.4815	4M48D7W
		64QAM	20.82	EIRP	0.121	4.4847	4M48D7W
41	10	QPSK	22.85	EIRP	0.193	8.9760	8M98G7D
		16QAM	21.79	EIRP	0.151	8.9529	8M95D7W
		64QAM	20.83	EIRP	0.121	8.9648	8M96D7W
41	15	QPSK	22.87	EIRP	0.194	13.4690	13M5G7D
		16QAM	21.81	EIRP	0.152	13.4560	13M5D7W
		64QAM	20.88	EIRP	<b>0.122</b>	13.4160	13M4D7W
41	20	QPSK	22.91	EIRP	<b>0.195</b>	17.8860	17M9G7D
		16QAM	21.85	EIRP	0.153	17.8860	17M9D7W
		64QAM	20.84	EIRP	0.121	17.8690	17M9D7W

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
66	1.4	QPSK	22.14	EIRP	0.164	1.0866	1M09G7D
		16QAM	21.13	EIRP	0.130	1.0864	1M09D7W
		64QAM	20.11	EIRP	<b>0.103</b>	1.0841	1M08D7W
66	3	QPSK	22.12	EIRP	0.163	2.6873	2M69G7D
		16QAM	21.11	EIRP	0.129	2.6918	2M69D7W
		64QAM	20.05	EIRP	0.101	2.6918	2M69D7W
66	5	QPSK	22.05	EIRP	0.160	4.4785	4M48G7D
		16QAM	21.14	EIRP	<b>0.130</b>	4.4802	4M48D7W
		64QAM	20.09	EIRP	0.102	4.4902	4M49D7W
66	10	QPSK	22.04	EIRP	0.160	8.9531	8M95G7D
		16QAM	21.08	EIRP	0.128	8.9266	8M93D7W
		64QAM	20.07	EIRP	0.102	8.9394	8M94D7W
66	15	QPSK	22.10	EIRP	0.162	13.4410	13M4G7D
		16QAM	21.12	EIRP	0.129	13.4320	13M4D7W
		64QAM	20.10	EIRP	0.102	13.4090	13M4D7W
66	20	QPSK	22.16	EIRP	<b>0.164</b>	17.8840	17M9G7D
		16QAM	21.05	EIRP	0.127	17.9010	17M9D7W
		64QAM	20.10	EIRP	0.102	17.8610	17M9D7W
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission
71	5	QPSK	22.80	EIRP	0.191	4.4855	4M49G7D
		16QAM	21.86	EIRP	0.153	4.4849	4M48D7W
		64QAM	20.83	EIRP	0.121	4.4922	4M49D7W
71	10	QPSK	22.83	EIRP	0.192	8.9621	8M96G7D
		16QAM	21.88	EIRP	0.154	8.9329	8M93D7W
		64QAM	20.85	EIRP	<b>0.122</b>	8.9434	8M94D7W
71	15	QPSK	22.85	EIRP	0.193	13.4370	13M4G7D
		16QAM	21.89	EIRP	<b>0.155</b>	13.4510	13M5D7W
		64QAM	20.83	EIRP	0.121	13.4360	13M4D7W
71	20	QPSK	22.91	EIRP	<b>0.195</b>	17.9140	17M9G7D
		16QAM	21.86	EIRP	0.153	17.8870	17M9D7W
		64QAM	20.82	EIRP	0.121	17.9000	17M9D7W

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## 1.5 Test Methodology of Applied Standards

FCC 47 CFR Part 2, 22H, 24E, 27C, Part 90

ISED RSS-130 Issue 2 Feb. 2019,

ISED RSS-132 Issue 3 Jan. 2013

ISED RSS-133 Issue 6, Amendment 1 Jan. 18, 2018, ISED RSS-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016,

ISED RSS-139 Issue 3 July 16, 2015

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

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

KDB412172 D01 Determining ERP and EIRP v01r01

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

## 1.6 Test Facility

Laboratory	Test Site Address	Test Site Name	FCC Designation number	IC CAB identifier
SGS Taiwan Ltd. Central RF Lab. (TAF code 3702)	No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan.	SAC 1	TW0027	TW3702
		SAC 3		
		Conduction 1		
		Conducted 1		
		Conducted 2		
		Conducted 3		
		Conducted 4		
		Conducted 5		
		Conducted 6		
	No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333	Conduction A	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
		Conducted G		
<b>Note:</b> Test site name is remarked on the equipment list in each section of this report as an indication where measurements occurred in specific test site and address.				

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### 1.7 Special Accessories

No special accessories were used during testing.

### 1.8 Equipment Modifications

There was no modifications incorporated into the EUT.

### 1.9 Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz

Radiated emission below 30MHz is measured in a 9m\*9m\*6m semi-anechoic chamber, the measurements correspond to those obtained at an open-field test site.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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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

The EUT is placed on a 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)

The EUT is placed on a 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.

### 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.

#### Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation in physical test.

Frequency	RF Cable loss (dB)	Attenuation (dB)	Offset (dB)
LB(1GHz below)	4.44	10	14.44
MB(1GHz - 2GHz)	4.68	10	14.68
MB(2GHz - 3GHz)	5.2	10	15.2

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**2.5 Final Amplifier Voltage and Current Information:**

Test Mode	DC voltage (V)	DC current (mA)
GSM 850	3.87	636
GSM 1900		548
WCDMA B2		612
WCDMA B4		592
WCDMA B5		579
LTE Band 2		659
LTE Band 4		588
LTE Band 5		633
LTE Band 7		603
LTE Band 12		667
LTE Band 17		572
LTE Band 25		641
LTE Band 26		653
LTE Band 26 (Part 90S)		634
LTE Band 30		611
LTE Band 38		593
LTE Band 41		589
LTE Band 66		622
LTE Band 71		605

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## 2.6 Configuration of Tested System

Fig. 2-1 Configuration of Tested System (Condcuted)

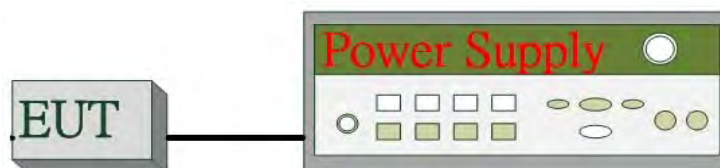


Fig. 2-2 Configuration of Tested System (Radiated)



Table 2-1 Equipment Used in

Item	Equipment	Mfr/Brand	Model/ Type No.	Series No.	Data Cable	Power Cord
1.	Radio Communication Analyser	Anritsu	MT8815A	6200429620	shielded	Un-shielded
2.	Radio Communication Analyser	Anritsu	MT8821C	6261786084	shielded	Un-shielded
3.	DC Power Supply	Agilent	E3640A	MY40005907	N/A	N/A

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### 3 SUMMARY OF TEST RESULTS

FCC Rules	IC Rules	Description Of Test	Result
§2.1046(a)	RSS-GEN §6.12	RF Power Output	Compliant
§22.913(a)(5) §24.232(c) §27.50(a)(3)(i) §27.50(h)(2) §27.50(d)(4) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.635	RSS-130 §4.6    RSS-132 §5.4 RSS-133 §6.4    RSS-139 §6.5 RSS-195 §5.5    RSS-199 §4.4	ERP/ EIRP measurement	Compliant
§2.1049(h)	RSS-GEN §6.7	99% & 26dB Occupied Bandwidth	Compliant
§2.1051 §22.917(a)(b) §24.238(a) §27.53(a)(4) §27.53(g) §27.53(h) §27.53(m) §90.691	RSS-GEN §6.13 RSS-130 §4.7    RSS-132 §5.5 RSS-133 §6.5    RSS-139 §6.6 RSS-195 §5.6    RSS-199 §4.5	Out of Band Emissions at Antenna Terminals and Band Edge / Emission mask requirements	Compliant
§2.1053 §22.917(a) §24.238(a) §27.53(a) §27.53(g) §27.53(h) §27.53(m)(2) §90.691	RSS-GEN §6.13 RSS-130 §4.7    RSS-132 §5.5 RSS-133 §6.5    RSS-139 §6.6 RSS-195 §5.6    RSS-199 §4.5	Field Strength of Spurious Radiation	Compliant
§24.232(d) §27.50(a)(1)(B)	RSS-130 §4.6.1    RSS-132 §5.4 RSS-133 §6.4    RSS-139 §6.4 RSS-195 §5.5    RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54	RSS-130 §4.5    RSS-132 §5.3 RSS-133 §6.3    RSS-139 §6.5 RSS-195 §5.4    RSS-199 §4.3	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	PLAN			Available Antennas				Worst Case Antenna			
	H	E1	E2	Ant1	Ant2	Ant3	Ant4	Ant1	Ant2	Ant3	Ant4
GSM/GPRS/EDGE 850	V			V		V		V			
GSM/GPRS/EDGE 1900	V				V				V		
WCDMA/HSPA Band II	V				V				V		
WCDMA/HSPA Band IV	V				V				V		
WCDMA/HSPA Band V	V			V		V		V			
LTE Band 2	V				V				V		
LTE Band 4	V				V				V		
LTE Band 5	V			V		V		V			
LTE Band 7	V			V	V	V	V		V		
LTE Band 12	V			V		V		V			
LTE Band 17	V			V		V		V			
LTE Band 25	V				V				V		
LTE Band 26	V			V		V		V			
LTE Band 26 (Part 90S)	V			V		V		V			
LTE Band 30	V				V				V		
LTE Bnad 38	V				V				V		
LTE Band 41	V				V				V		
LTE Band 66	V				V				V		
LTE Band 71	V			V		V		V			

EUT	Serial Number	Note
ASUS Phone (Mobile Phone)	M1AIB7N00062C68	

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## 4.2 Measurement Configuration

Test Items	GSM Bands	Test Channel		
		L	M	H
ERP	850	v	v	v
EIRP	1900	v	v	v
FREQUENCY STABILITY	850	-	v	-
	1900	-	v	-
OCCUPIED BANDWIDTH	850	v	v	v
	1900	v	v	v
PEAK TO AVERAGE RATIO	850	v	v	v
	1900	v	v	v
BAND EDGE	850	v	-	v
	1900	v	-	v
CONDCUDED EMISSION	850	v	v	v
	1900	v	v	v
RADIATED EMISSION	850	v	v	v
	1900	v	v	v

Test Items	WCDMA / HSPA Bands	Test Channel		
		L	M	H
ERP	Band V	v	v	v
EIRP	Bnad II	v	v	v
	Band IV	v	v	v
FREQUENCY STABILITY	Bnad II	-	v	-
	Band IV	-	v	-
	Band V	-	v	-
OCCUPIED BANDWIDTH	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
PEAK TO AVERAGE RATIO	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
BAND EDGE	Bnad II	v	-	v
	Band IV	v	-	v
	Band V	v	-	v
CONDCUDED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v
RADIATED EMISSION	Bnad II	v	v	v
	Band IV	v	v	v
	Band V	v	v	v

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Max. Output Power	2	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	5	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	7	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	17	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
	25	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	26	V	V	V	V	V	V	V	V	-	V	V	V	V	V	V	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V	V	V	V	V	V
	30	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
	38	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	41	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
	71	V	V	V	-	-	V	V	V	V	V	V	V	V	V	V	V
Frequency Stability	2	-	V	-				V			V	-	-	-	-	-	V
	4	-	V	-				V			V	-	-	-	-	-	V
	5	-	V	-				V	-	-	V	-	-	-	-	-	V
	7	-	V	-	-	-		V			V	-	-	-	-	-	V
	12	-	V	-				V	-	-	V	-	-	-	-	-	V
	17	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
	25	-	V	-				V			V	-	-	-	-	-	V
	26	-	V	-				V		-	V	-	-	-	-	-	V
	26 P90	-	V	-				V	-	-	V	-	-	-	-	-	V
	30	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
	38	-	V	-	-	-		V			V	-	-	-	-	-	V
	41	-	V	-	-	-		V			V	-	-	-	-	-	V
	66	-	V	-				V			V	-	-	-	-	-	V
	71	-	V	-	-	-		V			V	-	-	-	-	-	V

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	1	Half	Full
26dB and 99% Bandwidth	2	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	4	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	5	V	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	7	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	12	V	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	17	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	25	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
	26	V	V	V	V	V	V	V	V	-	V	V	V	V	-	-	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V	V	V	-	-	V
	30	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	38	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	41	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	66	V	V	V	V	V	V	V	V	V	V	V	V	V	-	-	V
Peak-to-Average Ratio	71	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V
	2	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	4	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	5	V	V	V	V	V	V	V	-	-	-	-	-	V	-	-	V
	7	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	12	V	V	V	V	V	V	V	-	-	-	-	-	V	-	-	V
	17	V	V	V	-	-	V	V	-	-	-	-	-	V	-	-	V
	25	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	26	V	V	V	V	V	V	V	V	-	-	-	-	V	-	-	V
	26 P90	V	V	V	V	V	V	V	-	-	-	-	-	V	-	-	V
	30	V	V	V	-	-	V	V	-	-	-	-	-	V	-	-	V
	38	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	41	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V
	66	V	V	V	V	V	V	V	V	V	-	-	-	V	-	-	V
	71	V	V	V	-	-	V	V	V	V	-	-	-	V	-	-	V

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Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	64QAM	1	Half	Full
Emission Mask	7	V	V	V	-	-	V	V	V	V	V	-	-	-	V	V	V
	26 P90	V	V	V	V	V	V	V	-	-	V	-	-	-	V	V	V
	30	V	V	V	-	-	V	V	-	-	V	-	-	-	V	V	V
	38	V	V	V	-	-	V	V	V	V	V	-	-	-	V	V	V
	41	V	V	V	-	-	V	V	V	V	V	-	-	-	V	V	V
Band Edge	2	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	4	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	5	V	-	V	-	-	-	V	-	-	V	-	-	-	V	V	V
	12	V	-	V	-	-	-	V	-	-	V	-	-	-	V	V	V
	17	V	-	V	-	-	-	V	-	-	V	-	-	-	V	V	V
	25	V	-	V	V	-	-	-	-	V	V	-	-	-	V	V	V
	26	V	-	V	-	V	-	-	V	-	V	-	-	-	V	V	V
	66	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
Conducted Emission	71	V	-	V	-	-	-	-	-	V	V	-	-	-	V	V	V
	2	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	4	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	5	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	7	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	12	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	17	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	25	V	V	V	V	-	-	-	-	V	V	-	-	-	V	-	-
	26	V	V	V	-	V	-	-	-	-	V	-	-	-	V	-	-
	26 P90	V	V	V	-	-	V	-	-	-	V	-	-	-	V	-	-
	30	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	38	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	41	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	66	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
	71	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
Test Items	Band	Test Channel			Bandwidth (MHz)						Modulation				RB #		
		L	M	H	1.4	3	5	10	15	20	QPSK	16QAM	64QAM	256QAM	1	Half	Full
Radiated Emission	2	V	V	V						V	V				V		
	4	V	V	V						V	V				V		
	5	V	V	V				V	-	-	V				V		
	7	V	V	V	-	-				V	V				V		
	12	V	V	V				V	-	-	V				V		
	17	V	V	V	-	-		V	-	-	V				V		
	25	V	V	V	V						V					V	
	26	V	V	V		V				-	V				V		
	26 P90	V	V	V			V		-	-	V				V		
	30	V	V	V	-	-		V	-	-	V				V		
	38	V	V	V	-	-				V	V				V		
	41	V	V	V	-	-				V	V				V		
	66	V	V	V						V	V				V		
	71	V	V	V	-	-				V	V				V		

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## 5 MEASUREMENT UNCERTAINTY

Test Items	Uncertainty
RF Power Output	+/- 1 dB
ERP/ EIRP measurement	Vertical Polarization = +/- 3dB Horizontal Polarization = +/- 3dB
99% Occupied Bandwidth	+/- 1.54 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.54 Hz
Frequency Stability vs. Voltage	+/- 1.54 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	DC= +/- 1%, AC= +/- 1%

Radiated Spurious Emission Measurement Uncertainty			
Polarization: Vertical	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB	
	+/- 4.93 dB	30MHz - 1000MHz: +/- 3.37dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.04dB	
	+/- 4.52 dB	18GHz - 40GHz: +/- 4.04dB	
Polarization: Horizontal	+/- 2.64 dB	9kHz~30MHz: +/- 2.3dB	
	+/- 4.45 dB	30MHz - 1000MHz: +/- 4.22dB	
	+/- 4.81 dB	1GHz - 18GHz: +/- 4.08dB	
	+/- 4.52 dB	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.

#### 6.1.1 ERP/EIRP LIMIT

According to FCC §2.1046

##### FCC 22.913(a)

(5) mobile transmitters and auxiliary test transmitters must not exceed 7 watts.

##### FCC 24.232(c)

Mobile and portable stations are limited to 2 W EIRP.

##### FCC 27.50 (a)

(3) for mobile and portable stations compliant with 3GPP LTE standards transmitting in the 2305-2315 MHz band or the 2350-2360 MHz band are limited to 250 mW/ 5MHz EIRP but may exceed 50 milliwatts within any 1 megahertz of authorized bandwidth.

##### FCC 27.50(c)

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

##### FCC 27.50(d)

(4) Mobile, and portable (hand-held) stations operating in the 1710-1755 MHz, 1695-1710 MHz and 1755-1780 MHz bands are limited to 1W EIRP.

##### FCC 27, 50(h)

(2) Mobile and other user stations transmitting in the BRS and EBS bands are limited to 2 W EIRP.

##### FCC 90.635(b)

Mobile station is limited to 100W ERP

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**RSS-130 §4.6**

The e.r.p. shall not exceed 3 watts for mobile equipment, fixed subscriber equipment and portable equipment operating in the Band 617-652 and 663-698MHz.

The e.r.p. shall not exceed 3 watts for portable equipment and indoor fixed subscriber equipment operating in 698-756 and 777-787 MHz.

**RSS-132 §5.4**

The equivalent isotropically radiated power (e.i.r.p.) for mobile equipment in operating in the Bands 824-849 and 869-894MHz shall not exceed 11.5 watts.

**RSS-133 §6.4**

The equivalent isotropically radiated power (e.i.r.p.) for transmitters shall not exceed the limits given in SRSP-510.

According to section 5.1.2 of SRSP-510, Mobile stations and hand-held portables are limited to 2 watts maximum e.i.r.p. The equipment shall employ means to limit the power to the minimum necessary for successful communication.

**RSS-139 §6.5**

The equivalent isotropically radiated power (e.i.r.p.) for mobile and portable transmitters in the Bands 1710-1780MHz shall not exceed one watt.

**RSS-195 §5.5**

The e.i.r.p. of mobile or portable equipment transmitting in the band 2305-2315 MHz or the band 2350-2360 MHz, employing 3GPP LTE (Third Generation Partnership Project Long Term Evolution) standards, shall not exceed 250 mW within any 5 MHz bandwidth. For other technologies, the e.i.r.p. shall not exceed 50 mW within any 1 MHz bandwidth.

**RSS-199 §4.4**

For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

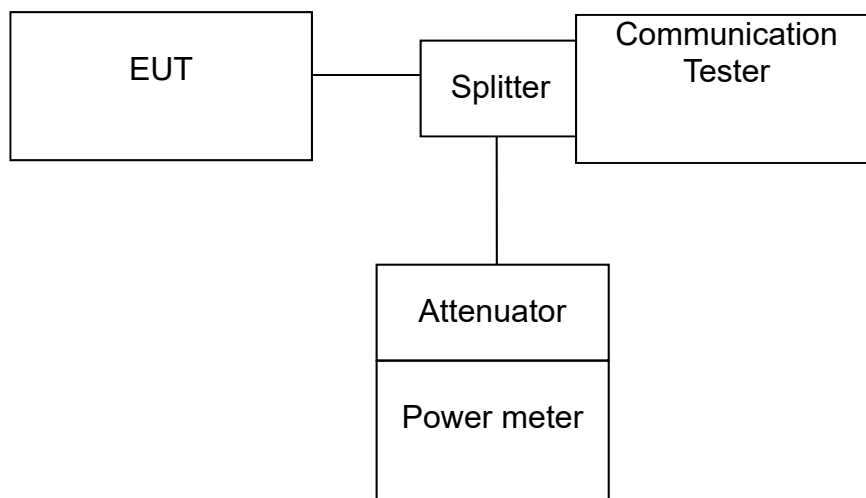
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## 6.2 Test Set-up



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

## 6.3 Output Power Measurement Applicable Guidance

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

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

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

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## 6.4 Determining ERP and/or EIRP from conducted RF output power measurements

According to KDB 412172 D01 Power Approach,

$$EIRP = P_T + G_T - L_C,$$

$$ERP = EIRP - 2.15,$$

Where:

- ERP or EIRP = effective radiated power or equivalent isotropically radiated power (expressed in the same units as  $P_T$ , typically dBW, dBm, or power spectral density (PSD)<sup>2</sup>), relative to either a dipole antenna (ERP) or an isotropic antenna (EIRP);
- $P_T$  = transmitter output power, expressed in dBW, dBm, or PSD;
- $G_T$  = gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP);
- $L_C$  = signal attenuation in the connecting cable between the transmitter and antenna, in dB.

## 6.5 Measurement Equipment Used

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Radio Communication Analyser	Anritsu	MT8815A	6200429620	01/15/2021	01/14/2022
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
Radio Communication Analyser	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Power Divider	RF-LAMBDA	RFLT2W1G18G	11-JSPF412-018	12/16/2020	12/15/2021

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## 6.6 GSM Measurement Results

GSM/GPRS/EDGE (GMSK; 8-PSK) Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
GSM 850	824.2	128	32.56	-5.70	24.71	26.86	38.50	-13.79
	836.6	190	33.08	-5.70	25.23	27.38	38.50	-13.27
	848.8	251	32.92	-5.70	25.07	27.22	38.50	-13.43
GSM 1900	1850.2	512	29.27	0.36	27.48	29.63	33.00	-3.37
	1880.0	661	29.44	0.36	27.65	29.80	33.00	-3.20
	1909.8	810	29.17	0.36	27.38	29.53	33.00	-3.47
GPRS 850	824.2	128	32.71	-5.70	24.86	27.01	38.50	-13.64
	836.6	190	33.15	-5.70	25.30	27.45	38.50	-13.20
	848.8	251	32.96	-5.70	25.11	27.26	38.50	-13.39
GPRS 1900	1850.2	512	29.04	0.36	27.25	29.40	33.00	-3.60
	1880.0	661	29.27	0.36	27.48	29.63	33.00	-3.37
	1909.8	810	28.96	0.36	27.17	29.32	33.00	-3.68
EDGE 850	824.2	128	27.02	-5.70	19.17	21.32	38.50	-19.33
	836.6	190	27.26	-5.70	19.41	21.56	38.50	-19.09
	848.8	251	27.13	-5.70	19.28	21.43	38.50	-19.22
EDGE 1900	1850.2	512	25.67	0.36	23.88	26.03	33.00	-6.97
	1880.0	661	25.81	0.36	24.02	26.17	33.00	-6.83
	1909.8	810	25.79	0.36	24.00	26.15	33.00	-6.85

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EUT Mode	Frequency (MHz)	CH	Average Burst Power (1DN 1UP) Class 8 (dBm)	Average Burst Power (1DN 2UP) Class 10 (dBm)
GPRS 850	824.2	128	32.71	32.23
	836.6	190	33.15	32.84
	848.8	251	32.96	32.70
GPRS 1900	1850.2	512	29.04	29.20
	1880.0	661	29.27	29.41
	1909.8	810	28.96	29.14
EDGE 850	824.2	128	27.02	26.67
	836.6	190	27.26	26.61
	848.8	251	27.13	26.56
EDGE 1900	1850.2	512	25.67	25.61
	1880.0	661	25.81	25.88
	1909.8	810	25.79	25.78

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## 6.7 WCDMA & HSPA Measurement Results:

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. RMC 12.2kps is used for this testing.

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

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1852.4	9262	22.54	0.36	20.75	22.90	33.00	-10.10
	1880.0	9400	22.73	0.36	20.94	23.09	33.00	-9.91
	1907.6	9538	23.09	0.36	21.30	23.45	33.00	-9.55
HSDPA	1852.4	9262	21.45	0.36	19.66	21.81	33.00	-11.19
	1880.0	9400	21.67	0.36	19.88	22.03	33.00	-10.97
	1907.6	9538	22.00	0.36	20.21	22.36	33.00	-10.64
HSUPA	1852.4	9262	21.47	0.36	19.68	21.83	33.00	-11.17
	1880.0	9400	21.65	0.36	19.86	22.01	33.00	-10.99
	1907.6	9538	22.09	0.36	20.30	22.45	33.00	-10.55

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

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	1712.4	1312	23.31	-1.24	19.92	22.07	30.00	-7.93
	1732.6	1413	23.03	-1.24	19.64	21.79	30.00	-8.21
	1752.6	1513	23.47	-1.24	20.08	22.23	30.00	-7.77
HSDPA	1712.4	1312	22.24	-1.24	18.85	21.00	30.00	-9.00
	1732.6	1413	22.00	-1.24	18.61	20.76	30.00	-9.24
	1752.6	1513	22.42	-1.24	19.03	21.18	30.00	-8.82
HSUPA	1712.4	1312	22.29	-1.24	18.90	21.05	30.00	-8.95
	1732.6	1413	22.01	-1.24	18.62	20.77	30.00	-9.23
	1752.6	1513	22.44	-1.24	19.05	21.20	30.00	-8.80

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## WCDMA/HSUPA/HSDPA Band V Result:

EUT Mode	Freq. (MHz)	CH	Conducted Avg. Power (dBm)	Antenna Gain (dBi)	ERP (dBm)	EIRP (dBm)	Limit (dBm)	Margin (dB)
WCDMA	826.4	4132	23.74	-5.70	15.89	18.04	38.50	-22.61
	836.6	4183	23.89	-5.70	16.04	18.19	38.50	-22.46
	846.6	4233	23.68	-5.70	15.83	17.98	38.50	-22.67
HSDPA	826.4	4132	22.65	-5.70	14.80	16.95	38.50	-23.70
	836.6	4183	22.80	-5.70	14.95	17.10	38.50	-23.55
	846.6	4233	22.67	-5.70	14.82	16.97	38.50	-23.68
HSUPA	826.4	4132	22.71	-5.70	14.86	17.01	38.50	-23.64
	836.6	4183	22.84	-5.70	14.99	17.14	38.50	-23.51
	846.6	4233	22.61	-5.70	14.76	16.91	38.50	-23.74

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### 6.7.1 HSPA (HSDPA & HSUPA) Release 6:

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.

### 6.7.2 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.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSDPA II	1	21.45	21.67	22.00
	2	21.46	21.67	22.09
	3	20.98	21.23	21.56
	4	20.98	21.18	21.56
Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSDPA IV	1	22.24	22.00	22.42
	2	22.26	22.03	22.44
	3	21.74	21.53	21.89
	4	21.77	21.44	21.89

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSDPA V	1	22.65	22.80	22.67
	2	22.72	22.85	22.62
	3	22.24	22.30	22.13
	4	22.22	22.33	22.12

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### 6.7.3 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.

Mode	Sub test	Avg. Power (dBm) Channel		
		9262.00	9400.00	9538.00
HSUPA II	1	21.47	21.65	22.09
	2	21.00	21.16	21.50
	3	21.46	21.68	22.00
	4	20.98	21.18	21.57
	5	21.48	21.71	22.09
Mode	Sub test	Avg. Power (dBm) Channel		
		1312.00	1413.00	1513.00
HSUPA IV	1	22.29	22.01	22.44
	2	21.75	21.44	21.94
	3	22.24	21.99	22.39
	4	21.78	21.46	21.88
	5	22.30	22.02	22.38

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Mode	Sub test	Avg. Power (dBm)		
		Channel		
		4132.00	4183.00	4233.00
HSUPA V	1	22.71	22.84	22.61
	2	22.24	22.34	22.15
	3	22.71	22.80	22.65
	4	22.17	22.31	22.09
	5	22.74	22.86	22.60

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

The EUT output power was controlled by simulator and enter max rated power 24dBm. The EUT is going to be set to max output power to 24dBm then record the read. 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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## 6.8 LTE Measurement Results:

Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	18607	1850.7	QPSK	1	0	22.29	22.65	33	-10.35
				1	5	22.22	22.58	33	-10.42
				3	2	21.45	21.81	33	-11.19
				6	0	21.33	21.69	33	-11.31
	18900	1880	QPSK	1	0	22.23	22.59	33	-10.41
				1	5	22.28	22.64	33	-10.36
				3	2	21.32	21.68	33	-11.32
				6	0	21.36	21.72	33	-11.28
	19193	1909.3	QPSK	1	0	22.28	22.64	33	-10.36
				1	5	22.24	22.60	33	-10.4
				3	2	21.59	21.95	33	-11.05
				6	0	21.34	21.70	33	-11.3
1.4	18607	1850.7	16QAM	1	0	21.11	21.47	33	-11.53
				1	5	20.99	21.35	33	-11.65
				3	2	20.04	20.40	33	-12.6
				6	0	20.03	20.39	33	-12.61
	18900	1880	16QAM	1	0	21.21	21.57	33	-11.43
				1	5	21.31	21.67	33	-11.33
				3	2	20.19	20.55	33	-12.45
				6	0	20.11	20.47	33	-12.53
	19193	1909.3	16QAM	1	0	21.33	21.69	33	-11.31
				1	5	21.22	21.58	33	-11.42
				3	2	20.26	20.62	33	-12.38
				6	0	20.26	20.62	33	-12.38
1.4	18607	1850.7	64QAM	1	0	20.03	20.39	33	-12.61
				1	5	20.00	20.36	33	-12.64
				3	2	19.07	19.43	33	-13.57
				6	0	19.01	19.37	33	-13.63
	18900	1880	64QAM	1	0	20.29	20.65	33	-12.35
				1	5	20.33	20.69	33	-12.31
				3	2	19.20	19.56	33	-13.44
				6	0	19.17	19.53	33	-13.47
	19193	1909.3	64QAM	1	0	20.10	20.46	33	-12.54
				1	5	20.26	20.62	33	-12.38
				3	2	19.27	19.63	33	-13.37
				6	0	19.34	19.70	33	-13.3

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Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	18615	1851.5	QPSK	1	0	22.27	22.63	33	-10.37
				1	14	22.35	22.71	33	-10.29
				8	4	21.34	21.70	33	-11.3
				15	0	21.24	21.60	33	-11.4
	18900	1880	QPSK	1	0	22.35	22.71	33	-10.29
				1	14	22.27	22.63	33	-10.37
				8	4	21.34	21.70	33	-11.3
				15	0	21.29	21.65	33	-11.35
	19185	1908.5	QPSK	1	0	22.38	22.74	33	-10.26
				1	14	22.32	22.68	33	-10.32
				8	4	21.53	21.89	33	-11.11
				15	0	21.43	21.79	33	-11.21
3	18615	1851.5	16QAM	1	0	21.02	21.38	33	-11.62
				1	14	20.89	21.25	33	-11.75
				8	4	20.04	20.40	33	-12.6
				15	0	19.95	20.31	33	-12.69
	18900	1880	16QAM	1	0	21.28	21.64	33	-11.36
				1	14	21.20	21.56	33	-11.44
				8	4	20.16	20.52	33	-12.48
				15	0	20.19	20.55	33	-12.45
	19185	1908.5	16QAM	1	0	21.24	21.60	33	-11.4
				1	14	21.24	21.60	33	-11.4
				8	4	20.26	20.62	33	-12.38
				15	0	20.24	20.60	33	-12.4
3	18615	1851.5	64QAM	1	0	20.03	20.39	33	-12.61
				1	14	20.07	20.43	33	-12.57
				8	4	19.08	19.44	33	-13.56
				15	0	18.94	19.30	33	-13.7
	18900	1880	64QAM	1	0	20.27	20.63	33	-12.37
				1	14	20.28	20.64	33	-12.36
				8	4	19.18	19.54	33	-13.46
				15	0	19.21	19.57	33	-13.43
	19185	1908.5	64QAM	1	0	20.14	20.50	33	-12.5
				1	14	20.28	20.64	33	-12.36
				8	4	19.23	19.59	33	-13.41
				15	0	19.26	19.62	33	-13.38

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Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	18625	1852.5	QPSK	1	0	22.03	22.39	33	-10.61
				1	24	22.10	22.46	33	-10.54
				12	6	21.02	21.38	33	-11.62
				25	0	21.02	21.38	33	-11.62
	18900	1880	QPSK	1	0	22.35	22.71	33	-10.29
				1	24	22.26	22.62	33	-10.38
				12	6	21.29	21.65	33	-11.35
				25	0	21.22	21.58	33	-11.42
	19175	1907.5	QPSK	1	0	22.32	22.68	33	-10.32
				1	24	22.39	22.75	33	-10.25
				12	6	21.31	21.67	33	-11.33
				25	0	21.31	21.67	33	-11.33
5	18625	1852.5	16QAM	1	0	21.04	21.40	33	-11.6
				1	24	21.13	21.49	33	-11.51
				12	6	20.03	20.39	33	-12.61
				25	0	20.09	20.45	33	-12.55
	18900	1880	16QAM	1	0	21.28	21.64	33	-11.36
				1	24	21.28	21.64	33	-11.36
				12	6	20.28	20.64	33	-12.36
				25	0	20.27	20.63	33	-12.37
	19175	1907.5	16QAM	1	0	21.28	21.64	33	-11.36
				1	24	21.32	21.68	33	-11.32
				12	6	20.31	20.67	33	-12.33
				25	0	20.40	20.76	33	-12.24
5	18625	1852.5	64QAM	1	0	20.06	20.42	33	-12.58
				1	24	20.04	20.40	33	-12.6
				12	6	19.09	19.45	33	-13.55
				25	0	19.04	19.40	33	-13.6
	18900	1880	64QAM	1	0	20.25	20.61	33	-12.39
				1	24	20.35	20.71	33	-12.29
				12	6	19.28	19.64	33	-13.36
				25	0	19.28	19.64	33	-13.36
	19175	1907.5	64QAM	1	0	20.28	20.64	33	-12.36
				1	24	20.28	20.64	33	-12.36
				12	6	19.32	19.68	33	-13.32
				25	0	19.35	19.71	33	-13.29

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Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	18650	1855	QPSK	1	0	22.15	22.51	33	-10.49
				1	49	22.13	22.49	33	-10.51
				25	12	21.16	21.52	33	-11.48
				50	0	21.14	21.50	33	-11.5
	18900	1880	QPSK	1	0	22.28	22.64	33	-10.36
				1	49	22.34	22.70	33	-10.3
				25	12	21.36	21.72	33	-11.28
				50	0	21.27	21.63	33	-11.37
	19150	1905	QPSK	1	0	22.32	22.68	33	-10.32
				1	49	22.30	22.66	33	-10.34
				25	12	21.26	21.62	33	-11.38
				50	0	21.30	21.66	33	-11.34
10	18650	1855	16QAM	1	0	21.15	21.51	33	-11.49
				1	49	21.13	21.49	33	-11.51
				25	12	20.14	20.50	33	-12.5
				50	0	20.16	20.52	33	-12.48
	18900	1880	16QAM	1	0	21.31	21.67	33	-11.33
				1	49	21.36	21.72	33	-11.28
				25	12	20.33	20.69	33	-12.31
				50	0	20.34	20.70	33	-12.3
	19150	1905	16QAM	1	0	21.38	21.74	33	-11.26
				1	49	21.27	21.63	33	-11.37
				25	12	20.35	20.71	33	-12.29
				50	0	20.38	20.74	33	-12.26
10	18650	1855	64QAM	1	0	20.03	20.39	33	-12.61
				1	49	20.02	20.38	33	-12.62
				25	12	19.09	19.45	33	-13.55
				50	0	19.08	19.44	33	-13.56
	18900	1880	64QAM	1	0	20.22	20.58	33	-12.42
				1	49	20.27	20.63	33	-12.37
				25	12	19.30	19.66	33	-13.34
				50	0	19.32	19.68	33	-13.32
	19150	1905	64QAM	1	0	20.26	20.62	33	-12.38
				1	49	20.35	20.71	33	-12.29
				25	12	19.29	19.65	33	-13.35
				50	0	19.36	19.72	33	-13.28

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Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	18675	1857.5	QPSK	1	0	22.14	22.50	33	-10.5
				1	74	22.10	22.46	33	-10.54
				36	18	21.04	21.40	33	-11.6
				75	0	21.06	21.42	33	-11.58
	18900	1880	QPSK	1	0	22.31	22.67	33	-10.33
				1	74	22.22	22.58	33	-10.42
				36	18	21.33	21.69	33	-11.31
				75	0	21.29	21.65	33	-11.35
	19125	1902.5	QPSK	1	0	22.39	22.75	33	-10.25
				1	74	22.29	22.65	33	-10.35
				36	18	21.37	21.73	33	-11.27
				75	0	21.31	21.67	33	-11.33
15	18675	1857.5	16QAM	1	0	21.07	21.43	33	-11.57
				1	74	21.11	21.47	33	-11.53
				36	18	20.10	20.46	33	-12.54
				75	0	20.05	20.41	33	-12.59
	18900	1880	16QAM	1	0	21.31	21.67	33	-11.33
				1	74	21.30	21.66	33	-11.34
				36	18	20.29	20.65	33	-12.35
				75	0	20.28	20.64	33	-12.36
	19125	1902.5	16QAM	1	0	21.30	21.66	33	-11.34
				1	74	21.34	21.70	33	-11.3
				36	18	20.30	20.66	33	-12.34
				75	0	20.37	20.73	33	-12.27
15	18675	1857.5	64QAM	1	0	20.02	20.38	33	-12.62
				1	74	20.09	20.45	33	-12.55
				36	18	19.11	19.47	33	-13.53
				75	0	19.13	19.49	33	-13.51
	18900	1880	64QAM	1	0	20.31	20.67	33	-12.33
				1	74	20.32	20.68	33	-12.32
				36	18	19.32	19.68	33	-13.32
				75	0	19.33	19.69	33	-13.31
	19125	1902.5	64QAM	1	0	20.29	20.65	33	-12.35
				1	74	20.34	20.70	33	-12.3
				36	18	19.30	19.66	33	-13.34
				75	0	19.30	19.66	33	-13.34

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Antenna gain (dBi)		0.36							
LTE Band 2_Uplink frequency band : 1850 to 1910 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	18700	1860	QPSK	1	0	22.18	22.54	33	-10.46
				1	99	22.37	22.73	33	-10.27
				50	25	21.48	21.84	33	-11.16
				100	0	21.39	21.75	33	-11.25
	18900	1880	QPSK	1	0	22.38	22.74	33	-10.26
				1	99	22.36	22.72	33	-10.28
				50	25	21.44	21.80	33	-11.2
				100	0	21.44	21.80	33	-11.2
	19100	1900	QPSK	1	0	22.42	22.78	33	-10.22
				1	99	22.42	22.78	33	-10.22
				50	25	21.62	21.98	33	-11.02
				100	0	21.49	21.85	33	-11.15
20	18700	1860	16QAM	1	0	21.13	21.49	33	-11.51
				1	99	21.05	21.41	33	-11.59
				50	25	20.09	20.45	33	-12.55
				100	0	20.06	20.42	33	-12.58
	18900	1880	16QAM	1	0	21.31	21.67	33	-11.33
				1	99	21.33	21.69	33	-11.31
				50	25	20.23	20.59	33	-12.41
				100	0	20.25	20.61	33	-12.39
	19100	1900	16QAM	1	0	21.39	21.75	33	-11.25
				1	99	21.34	21.70	33	-11.3
				50	25	20.31	20.67	33	-12.33
				100	0	20.36	20.72	33	-12.28
20	18700	1860	64QAM	1	0	20.12	20.48	33	-12.52
				1	99	20.09	20.45	33	-12.55
				50	25	19.16	19.52	33	-13.48
				100	0	19.03	19.39	33	-13.61
	18900	1880	64QAM	1	0	20.32	20.68	33	-12.32
				1	99	20.35	20.71	33	-12.29
				50	25	19.33	19.69	33	-13.31
				100	0	19.32	19.68	33	-13.32
	19100	1900	64QAM	1	0	20.26	20.62	33	-12.38
				1	99	20.35	20.71	33	-12.29
				50	25	19.33	19.69	33	-13.31
				100	0	19.36	19.72	33	-13.28

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Antenna gain (dBi)		-1.24							
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	22.32	21.08	30	-8.92
				1	5	22.30	21.06	30	-8.94
				3	2	22.24	21.00	30	-9
				6	0	21.27	20.03	30	-9.97
	20175	1732.5	QPSK	1	0	22.14	20.90	30	-9.1
				1	5	22.25	21.01	30	-8.99
				3	2	22.24	21.00	30	-9
				6	0	21.21	19.97	30	-10.03
	20393	1754.3	QPSK	1	0	22.38	21.14	30	-8.86
				1	5	22.42	21.18	30	-8.82
				3	2	22.36	21.12	30	-8.88
				6	0	21.47	20.23	30	-9.77
1.4	19957	1710.7	16QAM	1	0	21.28	20.04	30	-9.96
				1	5	21.19	19.95	30	-10.05
				3	2	21.29	20.05	30	-9.95
				6	0	20.29	19.05	30	-10.95
	20175	1732.5	16QAM	1	0	21.18	19.94	30	-10.06
				1	5	21.20	19.96	30	-10.04
				3	2	21.26	20.02	30	-9.98
				6	0	20.21	18.97	30	-11.03
	20393	1754.3	16QAM	1	0	21.36	20.12	30	-9.88
				1	5	21.45	20.21	30	-9.79
				3	2	21.38	20.14	30	-9.86
				6	0	20.46	19.22	30	-10.78
1.4	19957	1710.7	64QAM	1	0	20.24	19.00	30	-11
				1	5	20.18	18.94	30	-11.06
				3	2	20.28	19.04	30	-10.96
				6	0	19.19	17.95	30	-12.05
	20175	1732.5	64QAM	1	0	20.12	18.88	30	-11.12
				1	5	20.25	19.01	30	-10.99
				3	2	20.14	18.90	30	-11.1
				6	0	19.25	18.01	30	-11.99
	20393	1754.3	64QAM	1	0	20.47	19.23	30	-10.77
				1	5	20.42	19.18	30	-10.82
				3	2	20.41	19.17	30	-10.83
				6	0	19.40	18.16	30	-11.84

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Antenna gain (dBi)		-1.24							
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	22.22	20.98	30	-9.02
				1	14	22.28	21.04	30	-8.96
				8	4	21.20	19.96	30	-10.04
				15	0	21.27	20.03	30	-9.97
	20175	1732.5	QPSK	1	0	22.16	20.92	30	-9.08
				1	14	22.25	21.01	30	-8.99
				8	4	21.23	19.99	30	-10.01
				15	0	21.12	19.88	30	-10.12
	20385	1753.5	QPSK	1	0	22.48	21.24	30	-8.76
				1	14	22.45	21.21	30	-8.79
				8	4	21.37	20.13	30	-9.87
				15	0	21.48	20.24	30	-9.76
3	19965	1711.5	16QAM	1	0	21.21	19.97	30	-10.03
				1	14	21.22	19.98	30	-10.02
				8	4	20.28	19.04	30	-10.96
				15	0	20.25	19.01	30	-10.99
	20175	1732.5	16QAM	1	0	21.19	19.95	30	-10.05
				1	14	21.24	20.00	30	-10
				8	4	20.25	19.01	30	-10.99
				15	0	20.23	18.99	30	-11.01
	20385	1753.5	16QAM	1	0	21.49	20.25	30	-9.75
				1	14	21.44	20.20	30	-9.8
				8	4	20.48	19.24	30	-10.76
				15	0	20.47	19.23	30	-10.77
3	19965	1711.5	64QAM	1	0	20.31	19.07	30	-10.93
				1	14	20.30	19.06	30	-10.94
				8	4	19.28	18.04	30	-11.96
				15	0	19.24	18.00	30	-12
	20175	1732.5	64QAM	1	0	20.19	18.95	30	-11.05
				1	14	20.12	18.88	30	-11.12
				8	4	19.21	17.97	30	-12.03
				15	0	19.19	17.95	30	-12.05
	20385	1753.5	64QAM	1	0	20.47	19.23	30	-10.77
				1	14	20.39	19.15	30	-10.85
				8	4	19.36	18.12	30	-11.88
				15	0	19.49	18.25	30	-11.75

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Antenna gain (dBi)		-1.24							
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	22.24	21.00	30	-9
				1	24	22.22	20.98	30	-9.02
				12	6	21.26	20.02	30	-9.98
				25	0	21.22	19.98	30	-10.02
	20175	1732.5	QPSK	1	0	22.13	20.89	30	-9.11
				1	24	22.12	20.88	30	-9.12
				12	6	21.26	20.02	30	-9.98
				25	0	21.16	19.92	30	-10.08
	20375	1752.5	QPSK	1	0	22.48	21.24	30	-8.76
				1	24	22.45	21.21	30	-8.79
				12	6	21.44	20.20	30	-9.8
				25	0	21.38	20.14	30	-9.86
5	19975	1712.5	16QAM	1	0	21.20	19.96	30	-10.04
				1	24	21.22	19.98	30	-10.02
				12	6	20.29	19.05	30	-10.95
				25	0	20.19	18.95	30	-11.05
	20175	1732.5	16QAM	1	0	21.12	19.88	30	-10.12
				1	24	21.24	20.00	30	-10
				12	6	20.20	18.96	30	-11.04
				25	0	20.16	18.92	30	-11.08
	20375	1752.5	16QAM	1	0	21.42	20.18	30	-9.82
				1	24	21.42	20.18	30	-9.82
				12	6	20.46	19.22	30	-10.78
				25	0	20.42	19.18	30	-10.82
5	19975	1712.5	64QAM	1	0	20.19	18.95	30	-11.05
				1	24	20.19	18.95	30	-11.05
				12	6	19.28	18.04	30	-11.96
				25	0	19.28	18.04	30	-11.96
	20175	1732.5	64QAM	1	0	20.17	18.93	30	-11.07
				1	24	20.24	19.00	30	-11
				12	6	19.23	17.99	30	-12.01
				25	0	19.26	18.02	30	-11.98
	20375	1752.5	64QAM	1	0	20.47	19.23	30	-10.77
				1	24	20.41	19.17	30	-10.83
				12	6	19.49	18.25	30	-11.75
				25	0	19.38	18.14	30	-11.86

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Antenna gain (dBi)		-1.24							
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	22.24	21.00	30	-9
				1	49	22.20	20.96	30	-9.04
				25	12	21.29	20.05	30	-9.95
				50	0	21.20	19.96	30	-10.04
	20175	1732.5	QPSK	1	0	22.17	20.93	30	-9.07
				1	49	22.12	20.88	30	-9.12
				25	12	21.24	20.00	30	-10
				50	0	21.19	19.95	30	-10.05
	20350	1750	QPSK	1	0	22.42	21.18	30	-8.82
				1	49	22.47	21.23	30	-8.77
				25	12	21.40	20.16	30	-9.84
				50	0	21.43	20.19	30	-9.81
10	20000	1715	16QAM	1	0	21.23	19.99	30	-10.01
				1	49	21.20	19.96	30	-10.04
				25	12	20.23	18.99	30	-11.01
				50	0	20.18	18.94	30	-11.06
	20175	1732.5	16QAM	1	0	21.17	19.93	30	-10.07
				1	49	21.13	19.89	30	-10.11
				25	12	20.24	19.00	30	-11
				50	0	20.19	18.95	30	-11.05
	20350	1750	16QAM	1	0	21.42	20.18	30	-9.82
				1	49	21.44	20.20	30	-9.8
				25	12	20.37	19.13	30	-10.87
				50	0	20.42	19.18	30	-10.82
10	20000	1715	64QAM	1	0	20.26	19.02	30	-10.98
				1	49	20.27	19.03	30	-10.97
				25	12	19.22	17.98	30	-12.02
				50	0	19.27	18.03	30	-11.97
	20175	1732.5	64QAM	1	0	20.26	19.02	30	-10.98
				1	49	20.22	18.98	30	-11.02
				25	12	19.25	18.01	30	-11.99
				50	0	19.16	17.92	30	-12.08
	20350	1750	64QAM	1	0	20.42	19.18	30	-10.82
				1	49	20.41	19.17	30	-10.83
				25	12	19.35	18.11	30	-11.89
				50	0	19.41	18.17	30	-11.83

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Antenna gain (dBi)		-1.24							
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	22.25	21.01	30	-8.99
				1	74	22.18	20.94	30	-9.06
				36	18	21.23	19.99	30	-10.01
				75	0	21.18	19.94	30	-10.06
	20175	1732.5	QPSK	1	0	22.16	20.92	30	-9.08
				1	74	22.16	20.92	30	-9.08
				36	18	21.21	19.97	30	-10.03
				75	0	21.22	19.98	30	-10.02
	20325	1747.5	QPSK	1	0	22.42	21.18	30	-8.82
				1	74	22.45	21.21	30	-8.79
				36	18	21.42	20.18	30	-9.82
				75	0	21.40	20.16	30	-9.84
15	20025	1717.5	16QAM	1	0	21.32	20.08	30	-9.92
				1	74	21.19	19.95	30	-10.05
				36	18	20.18	18.94	30	-11.06
				75	0	20.19	18.95	30	-11.05
	20175	1732.5	16QAM	1	0	21.15	19.91	30	-10.09
				1	74	21.20	19.96	30	-10.04
				36	18	20.23	18.99	30	-11.01
				75	0	20.16	18.92	30	-11.08
	20325	1747.5	16QAM	1	0	21.37	20.13	30	-9.87
				1	74	21.43	20.19	30	-9.81
				36	18	20.43	19.19	30	-10.81
				75	0	20.40	19.16	30	-10.84
15	20025	1717.5	64QAM	1	0	20.18	18.94	30	-11.06
				1	74	20.21	18.97	30	-11.03
				36	18	19.29	18.05	30	-11.95
				75	0	19.28	18.04	30	-11.96
	20175	1732.5	64QAM	1	0	20.12	18.88	30	-11.12
				1	74	20.24	19.00	30	-11
				36	18	19.22	17.98	30	-12.02
				75	0	19.20	17.96	30	-12.04
	20325	1747.5	64QAM	1	0	20.41	19.17	30	-10.83
				1	74	20.48	19.24	30	-10.76
				36	18	19.45	18.21	30	-11.79
				75	0	19.36	18.12	30	-11.88

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Antenna gain (dBi)		-1.24							
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	22.34	21.10	30	-8.9
				1	99	22.34	21.10	30	-8.9
				50	25	21.32	20.08	30	-9.92
				100	0	21.34	20.10	30	-9.9
	20175	1732.5	QPSK	1	0	22.28	21.04	30	-8.96
				1	99	22.24	21.00	30	-9
				50	25	21.57	20.33	30	-9.67
				100	0	21.44	20.20	30	-9.8
	20300	1745	QPSK	1	0	22.51	21.27	30	-8.73
				1	99	22.17	20.93	30	-9.07
				50	25	21.28	20.04	30	-9.96
				100	0	21.31	20.07	30	-9.93
20	20050	1720	16QAM	1	0	21.18	19.94	30	-10.06
				1	99	21.28	20.04	30	-9.96
				50	25	20.25	19.01	30	-10.99
				100	0	20.24	19.00	30	-11
	20175	1732.5	16QAM	1	0	21.18	19.94	30	-10.06
				1	99	21.13	19.89	30	-10.11
				50	25	20.23	18.99	30	-11.01
				100	0	20.22	18.98	30	-11.02
	20300	1745	16QAM	1	0	21.36	20.12	30	-9.88
				1	99	21.36	20.12	30	-9.88
				50	25	20.43	19.19	30	-10.81
				100	0	20.46	19.22	30	-10.78
20	20050	1720	64QAM	1	0	20.29	19.05	30	-10.95
				1	99	20.23	18.99	30	-11.01
				50	25	19.21	17.97	30	-12.03
				100	0	19.27	18.03	30	-11.97
	20175	1732.5	64QAM	1	0	20.25	19.01	30	-10.99
				1	99	20.16	18.92	30	-11.08
				50	25	19.12	17.88	30	-12.12
				100	0	19.23	17.99	30	-12.01
	20300	1745	64QAM	1	0	20.42	19.18	30	-10.82
				1	99	20.46	19.22	30	-10.78
				50	25	19.45	18.21	30	-11.79
				100	0	19.41	18.17	30	-11.83

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Antenna gain (dBi)		-5.7								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	20407	824.7	QPSK	1	0	23.08	15.23	17.38	38.45	-23.22
				1	5	23.12	15.27	17.42	38.45	-23.18
				3	2	23.17	15.32	17.47	38.45	-23.13
				6	0	22.13	14.28	16.43	38.45	-24.17
	20525	836.5	QPSK	1	0	22.92	15.07	17.22	38.45	-23.38
				1	5	22.89	15.04	17.19	38.45	-23.41
				3	2	23.02	15.17	17.32	38.45	-23.28
				6	0	21.92	14.07	16.22	38.45	-24.38
	20643	848.3	QPSK	1	0	22.85	15.00	17.15	38.45	-23.45
				1	5	22.91	15.06	17.21	38.45	-23.39
				3	2	22.89	15.04	17.19	38.45	-23.41
				6	0	21.84	13.99	16.14	38.45	-24.46
1.4	20407	824.7	16QAM	1	0	22.06	14.21	16.36	38.45	-24.24
				1	5	22.13	14.28	16.43	38.45	-24.17
				3	2	22.05	14.20	16.35	38.45	-24.25
				6	0	21.07	13.22	15.37	38.45	-25.23
	20525	836.5	16QAM	1	0	21.96	14.11	16.26	38.45	-24.34
				1	5	21.95	14.10	16.25	38.45	-24.35
				3	2	22.00	14.15	16.30	38.45	-24.30
				6	0	20.93	13.08	15.23	38.45	-25.37
	20643	848.3	16QAM	1	0	21.85	14.00	16.15	38.45	-24.45
				1	5	21.86	14.01	16.16	38.45	-24.44
				3	2	21.93	14.08	16.23	38.45	-24.37
				6	0	20.90	13.05	15.20	38.45	-25.40
1.4	20407	824.7	64QAM	1	0	21.17	13.32	15.47	38.45	-25.13
				1	5	21.17	13.32	15.47	38.45	-25.13
				3	2	21.13	13.28	15.43	38.45	-25.17
				6	0	20.13	12.28	14.43	38.45	-26.17
	20525	836.5	64QAM	1	0	20.92	13.07	15.22	38.45	-25.38
				1	5	20.92	13.07	15.22	38.45	-25.38
				3	2	20.95	13.10	15.25	38.45	-25.35
				6	0	20.00	12.15	14.30	38.45	-26.30
	20643	848.3	64QAM	1	0	20.89	13.04	15.19	38.45	-25.41
				1	5	20.81	12.96	15.11	38.45	-25.49
				3	2	20.92	13.07	15.22	38.45	-25.38
				6	0	19.80	11.95	14.10	38.45	-26.50

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Antenna gain (dBi)		-5.7								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	20415	825.5	QPSK	1	0	23.11	15.26	17.41	38.45	-23.19
				1	14	23.10	15.25	17.40	38.45	-23.20
				8	4	22.04	14.19	16.34	38.45	-24.26
				15	0	22.15	14.30	16.45	38.45	-24.15
	20525	836.5	QPSK	1	0	22.91	15.06	17.21	38.45	-23.39
				1	14	22.98	15.13	17.28	38.45	-23.32
				8	4	21.89	14.04	16.19	38.45	-24.41
				15	0	21.97	14.12	16.27	38.45	-24.33
	20635	847.5	QPSK	1	0	22.84	14.99	17.14	38.45	-23.46
				1	14	22.87	15.02	17.17	38.45	-23.43
				8	4	21.86	14.01	16.16	38.45	-24.44
				15	0	21.87	14.02	16.17	38.45	-24.43
3	20415	825.5	16QAM	1	0	22.16	14.31	16.46	38.45	-24.14
				1	14	22.09	14.24	16.39	38.45	-24.21
				8	4	21.11	13.26	15.41	38.45	-25.19
				15	0	21.15	13.30	15.45	38.45	-25.15
	20525	836.5	16QAM	1	0	21.91	14.06	16.21	38.45	-24.39
				1	14	22.00	14.15	16.30	38.45	-24.30
				8	4	21.01	13.16	15.31	38.45	-25.29
				15	0	20.89	13.04	15.19	38.45	-25.41
	20635	847.5	16QAM	1	0	21.88	14.03	16.18	38.45	-24.42
				1	14	21.87	14.02	16.17	38.45	-24.43
				8	4	20.92	13.07	15.22	38.45	-25.38
				15	0	20.86	13.01	15.16	38.45	-25.44
3	20415	825.5	64QAM	1	0	21.04	13.19	15.34	38.45	-25.26
				1	14	21.09	13.24	15.39	38.45	-25.21
				8	4	20.15	12.30	14.45	38.45	-26.15
				15	0	20.13	12.28	14.43	38.45	-26.17
	20525	836.5	64QAM	1	0	20.92	13.07	15.22	38.45	-25.38
				1	14	20.96	13.11	15.26	38.45	-25.34
				8	4	20.01	12.16	14.31	38.45	-26.29
				15	0	19.94	12.09	14.24	38.45	-26.36
	20635	847.5	64QAM	1	0	20.80	12.95	15.10	38.45	-25.50
				1	14	20.79	12.94	15.09	38.45	-25.51
				8	4	19.90	12.05	14.20	38.45	-26.40
				15	0	19.83	11.98	14.13	38.45	-26.47

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Antenna gain (dBi)		-5.7								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	20425	826.5	QPSK	1	0	23.07	15.22	17.37	38.45	-23.23
				1	24	23.11	15.26	17.41	38.45	-23.19
				12	6	22.04	14.19	16.34	38.45	-24.26
				25	0	22.14	14.29	16.44	38.45	-24.16
	20525	836.5	QPSK	1	0	22.96	15.11	17.26	38.45	-23.34
				1	24	22.90	15.05	17.20	38.45	-23.40
				12	6	21.96	14.11	16.26	38.45	-24.34
				25	0	21.93	14.08	16.23	38.45	-24.37
	20625	846.5	QPSK	1	0	22.90	15.05	17.20	38.45	-23.40
				1	24	22.88	15.03	17.18	38.45	-23.42
				12	6	21.85	14.00	16.15	38.45	-24.45
				25	0	21.84	13.99	16.14	38.45	-24.46
5	20425	826.5	16QAM	1	0	22.10	14.25	16.40	38.45	-24.20
				1	24	22.11	14.26	16.41	38.45	-24.19
				12	6	21.04	13.19	15.34	38.45	-25.26
				25	0	21.15	13.30	15.45	38.45	-25.15
	20525	836.5	16QAM	1	0	21.97	14.12	16.27	38.45	-24.33
				1	24	21.90	14.05	16.20	38.45	-24.40
				12	6	20.89	13.04	15.19	38.45	-25.41
				25	0	20.92	13.07	15.22	38.45	-25.38
	20625	846.5	16QAM	1	0	21.84	13.99	16.14	38.45	-24.46
				1	24	21.81	13.96	16.11	38.45	-24.49
				12	6	20.82	12.97	15.12	38.45	-25.48
				25	0	20.86	13.01	15.16	38.45	-25.44
5	20425	826.5	64QAM	1	0	21.05	13.20	15.35	38.45	-25.25
				1	24	21.09	13.24	15.39	38.45	-25.21
				12	6	20.18	12.33	14.48	38.45	-26.12
				25	0	20.10	12.25	14.40	38.45	-26.20
	20525	836.5	64QAM	1	0	20.97	13.12	15.27	38.45	-25.33
				1	24	20.98	13.13	15.28	38.45	-25.32
				12	6	19.93	12.08	14.23	38.45	-26.37
				25	0	20.03	12.18	14.33	38.45	-26.27
	20625	846.5	64QAM	1	0	20.88	13.03	15.18	38.45	-25.42
				1	24	20.79	12.94	15.09	38.45	-25.51
				12	6	19.92	12.07	14.22	38.45	-26.38
				25	0	19.93	12.08	14.23	38.45	-26.37

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Antenna gain (dBi)		-5.7								
LTE Band 5_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	20450	829	QPSK	1	0	23.20	15.35	17.50	38.45	-23.10
				1	49	23.04	15.19	17.34	38.45	-23.26
				25	12	22.21	14.36	16.51	38.45	-24.09
				50	0	22.23	14.38	16.53	38.45	-24.07
	20525	836.5	QPSK	1	0	23.05	15.20	17.35	38.45	-23.25
				1	49	22.82	14.97	17.12	38.45	-23.48
				25	12	22.03	14.18	16.33	38.45	-24.27
				50	0	22.07	14.22	16.37	38.45	-24.23
	20600	844	QPSK	1	0	22.95	15.10	17.25	38.45	-23.35
				1	49	22.74	14.89	17.04	38.45	-23.56
				25	12	21.99	14.14	16.29	38.45	-24.31
				50	0	21.97	14.12	16.27	38.45	-24.33
10	20450	829	16QAM	1	0	22.16	14.31	16.46	38.45	-24.14
				1	49	22.08	14.23	16.38	38.45	-24.22
				25	12	21.18	13.33	15.48	38.45	-25.12
				50	0	21.05	13.20	15.35	38.45	-25.25
	20525	836.5	16QAM	1	0	21.90	14.05	16.20	38.45	-24.40
				1	49	21.91	14.06	16.21	38.45	-24.39
				25	12	20.96	13.11	15.26	38.45	-25.34
				50	0	20.92	13.07	15.22	38.45	-25.38
	20600	844	16QAM	1	0	21.90	14.05	16.20	38.45	-24.40
				1	49	21.92	14.07	16.22	38.45	-24.38
				25	12	20.91	13.06	15.21	38.45	-25.39
				50	0	20.88	13.03	15.18	38.45	-25.42
10	20450	829	64QAM	1	0	21.05	13.20	15.35	38.45	-25.25
				1	49	21.18	13.33	15.48	38.45	-25.12
				25	12	20.14	12.29	14.44	38.45	-26.16
				50	0	20.17	12.32	14.47	38.45	-26.13
	20525	836.5	64QAM	1	0	20.91	13.06	15.21	38.45	-25.39
				1	49	21.02	13.17	15.32	38.45	-25.28
				25	12	19.96	12.11	14.26	38.45	-26.34
				50	0	19.92	12.07	14.22	38.45	-26.38
	20600	844	64QAM	1	0	20.80	12.95	15.10	38.45	-25.50
				1	49	20.83	12.98	15.13	38.45	-25.47
				25	12	19.80	11.95	14.10	38.45	-26.50
				50	0	19.84	11.99	14.14	38.45	-26.46

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Antenna gain (dBi)		0.03							
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	22.20	22.23	33	-10.77
				1	24	22.14	22.17	33	-10.83
				12	6	21.09	21.12	33	-11.88
				25	0	21.14	21.17	33	-11.83
	21100	2535	QPSK	1	0	22.16	22.19	33	-10.81
				1	24	22.23	22.26	33	-10.74
				12	6	21.27	21.30	33	-11.7
				25	0	21.16	21.19	33	-11.81
	21425	2567.5	QPSK	1	0	22.57	22.60	33	-10.4
				1	24	22.51	22.54	33	-10.46
				12	6	21.55	21.58	33	-11.42
				25	0	21.56	21.59	33	-11.41
5	20775	2502.5	16QAM	1	0	21.17	21.20	33	-11.8
				1	24	21.20	21.23	33	-11.77
				12	6	20.14	20.17	33	-12.83
				25	0	20.10	20.13	33	-12.87
	21100	2535	16QAM	1	0	21.29	21.32	33	-11.68
				1	24	21.16	21.19	33	-11.81
				12	6	20.21	20.24	33	-12.76
				25	0	20.28	20.31	33	-12.69
	21425	2567.5	16QAM	1	0	21.48	21.51	33	-11.49
				1	24	21.57	21.60	33	-11.4
				12	6	20.48	20.51	33	-12.49
				25	0	20.61	20.64	33	-12.36
5	20775	2502.5	64QAM	1	0	20.07	20.10	33	-12.9
				1	24	20.08	20.11	33	-12.89
				12	6	19.10	19.13	33	-13.87
				25	0	19.12	19.15	33	-13.85
	21100	2535	64QAM	1	0	20.19	20.22	33	-12.78
				1	24	20.23	20.26	33	-12.74
				12	6	19.29	19.32	33	-13.68
				25	0	19.25	19.28	33	-13.72
	21425	2567.5	64QAM	1	0	20.57	20.60	33	-12.4
				1	24	20.50	20.53	33	-12.47
				12	6	19.50	19.53	33	-13.47
				25	0	19.49	19.52	33	-13.48

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Antenna gain (dBi)		0.03							
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	22.15	22.18	33	-10.82
				1	49	22.18	22.21	33	-10.79
				25	12	21.16	21.19	33	-11.81
				50	0	21.08	21.11	33	-11.89
	21100	2535	QPSK	1	0	22.21	22.24	33	-10.76
				1	49	22.27	22.30	33	-10.7
				25	12	21.16	21.19	33	-11.81
				50	0	21.23	21.26	33	-11.74
	21400	2565	QPSK	1	0	22.59	22.62	33	-10.38
				1	49	22.62	22.65	33	-10.35
				25	12	21.49	21.52	33	-11.48
				50	0	21.56	21.59	33	-11.41
10	20800	2505	16QAM	1	0	21.13	21.16	33	-11.84
				1	49	21.16	21.19	33	-11.81
				25	12	20.10	20.13	33	-12.87
				50	0	20.15	20.18	33	-12.82
	21100	2535	16QAM	1	0	21.19	21.22	33	-11.78
				1	49	21.17	21.20	33	-11.8
				25	12	20.25	20.28	33	-12.72
				50	0	20.29	20.32	33	-12.68
	21400	2565	16QAM	1	0	21.53	21.56	33	-11.44
				1	49	21.55	21.58	33	-11.42
				25	12	20.51	20.54	33	-12.46
				50	0	20.50	20.53	33	-12.47
10	20800	2505	64QAM	1	0	20.20	20.23	33	-12.77
				1	49	20.12	20.15	33	-12.85
				25	12	19.19	19.22	33	-13.78
				50	0	19.19	19.22	33	-13.78
	21100	2535	64QAM	1	0	20.19	20.22	33	-12.78
				1	49	20.15	20.18	33	-12.82
				25	12	19.26	19.29	33	-13.71
				50	0	19.29	19.32	33	-13.68
	21400	2565	64QAM	1	0	20.50	20.53	33	-12.47
				1	49	20.56	20.59	33	-12.41
				25	12	19.56	19.59	33	-13.41
				50	0	19.50	19.53	33	-13.47

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Antenna gain (dBi)		0.03							
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	22.14	22.17	33	-10.83
				1	74	22.14	22.17	33	-10.83
				36	18	21.06	21.09	33	-11.91
				75	0	21.14	21.17	33	-11.83
	21100	2535	QPSK	1	0	22.15	22.18	33	-10.82
				1	74	22.23	22.26	33	-10.74
				36	18	21.19	21.22	33	-11.78
				75	0	21.23	21.26	33	-11.74
	21375	2562.5	QPSK	1	0	22.59	22.62	33	-10.38
				1	74	22.49	22.52	33	-10.48
				36	18	21.50	21.53	33	-11.47
				75	0	21.57	21.60	33	-11.4
15	20825	2507.5	16QAM	1	0	21.15	21.18	33	-11.82
				1	74	21.06	21.09	33	-11.91
				36	18	20.10	20.13	33	-12.87
				75	0	20.07	20.10	33	-12.9
	21100	2535	16QAM	1	0	21.28	21.31	33	-11.69
				1	74	21.24	21.27	33	-11.73
				36	18	20.21	20.24	33	-12.76
				75	0	20.26	20.29	33	-12.71
	21375	2562.5	16QAM	1	0	21.52	21.55	33	-11.45
				1	74	21.50	21.53	33	-11.47
				36	18	20.61	20.64	33	-12.36
				75	0	20.55	20.58	33	-12.42
15	20825	2507.5	64QAM	1	0	20.20	20.23	33	-12.77
				1	74	20.07	20.10	33	-12.9
				36	18	19.20	19.23	33	-13.77
				75	0	19.16	19.19	33	-13.81
	21100	2535	64QAM	1	0	20.18	20.21	33	-12.79
				1	74	20.29	20.32	33	-12.68
				36	18	19.27	19.30	33	-13.7
				75	0	19.23	19.26	33	-13.74
	21375	2562.5	64QAM	1	0	20.52	20.55	33	-12.45
				1	74	20.50	20.53	33	-12.47
				36	18	19.58	19.61	33	-13.39
				75	0	19.58	19.61	33	-13.39

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Antenna gain (dBi)		0.03							
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	22.22	22.25	33	-10.75
				1	99	21.94	21.97	33	-11.03
				50	25	21.14	21.17	33	-11.83
				100	0	21.16	21.19	33	-11.81
	21100	2535	QPSK	1	0	22.31	22.34	33	-10.66
				1	99	22.77	22.80	33	-10.2
				50	25	21.93	21.96	33	-11.04
				100	0	21.83	21.86	33	-11.14
	21350	2560	QPSK	1	0	22.64	22.67	33	-10.33
				1	99	22.65	22.68	33	-10.32
				50	25	21.76	21.79	33	-11.21
				100	0	21.76	21.79	33	-11.21
20	20850	2510	QPSK	1	0	21.10	21.13	33	-11.87
				1	99	21.17	21.20	33	-11.8
				50	25	20.16	20.19	33	-12.81
				100	0	20.13	20.16	33	-12.84
	21100	2535	QPSK	1	0	21.18	21.21	33	-11.79
				1	99	21.16	21.19	33	-11.81
				50	25	20.25	20.28	33	-12.72
				100	0	20.17	20.20	33	-12.8
	21350	2560	QPSK	1	0	21.55	21.58	33	-11.42
				1	99	21.62	21.65	33	-11.35
				50	25	20.48	20.51	33	-12.49
				100	0	20.62	20.65	33	-12.35
20	20850	2510	QPSK	1	0	20.17	20.20	33	-12.8
				1	99	20.20	20.23	33	-12.77
				50	25	19.18	19.21	33	-13.79
				100	0	19.14	19.17	33	-13.83
	21100	2535	QPSK	1	0	20.19	20.22	33	-12.78
				1	99	20.16	20.19	33	-12.81
				50	25	19.24	19.27	33	-13.73
				100	0	19.16	19.19	33	-13.81
	21350	2560	QPSK	1	0	20.57	20.60	33	-12.4
				1	99	20.49	20.52	33	-12.48
				50	25	19.53	19.56	33	-13.44
				100	0	19.58	19.61	33	-13.39

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Antenna gain (dBi)		-3.9								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	23017	699.7	QPSK	1	0	22.98	16.93	19.08	34.77	-17.84
				1	5	22.92	16.87	19.02	34.77	-17.90
				3	2	22.94	16.89	19.04	34.77	-17.88
				6	0	21.94	15.89	18.04	34.77	-18.88
	23095	707.5	QPSK	1	0	23.13	17.08	19.23	34.77	-17.69
				1	5	23.15	17.10	19.25	34.77	-17.67
				3	2	23.02	16.97	19.12	34.77	-17.80
				6	0	22.13	16.08	18.23	34.77	-18.69
	23173	715.5	QPSK	1	0	23.15	17.10	19.25	34.77	-17.67
				1	5	23.10	17.05	19.20	34.77	-17.72
				3	2	23.11	17.06	19.21	34.77	-17.71
				6	0	22.09	16.04	18.19	34.77	-18.73
1.4	23017	699.7	16QAM	1	0	21.96	15.91	18.06	34.77	-18.86
				1	5	21.96	15.91	18.06	34.77	-18.86
				3	2	22.01	15.96	18.11	34.77	-18.81
				6	0	20.98	14.93	17.08	34.77	-19.84
	23095	707.5	16QAM	1	0	22.08	16.03	18.18	34.77	-18.74
				1	5	22.06	16.01	18.16	34.77	-18.76
				3	2	22.15	16.10	18.25	34.77	-18.67
				6	0	21.10	15.05	17.20	34.77	-19.72
	23173	715.5	16QAM	1	0	22.16	16.11	18.26	34.77	-18.66
				1	5	22.21	16.16	18.31	34.77	-18.61
				3	2	22.12	16.07	18.22	34.77	-18.70
				6	0	21.07	15.02	17.17	34.77	-19.75
1.4	23017	699.7	64QAM	1	0	20.98	14.93	17.08	34.77	-19.84
				1	5	21.06	15.01	17.16	34.77	-19.76
				3	2	20.92	14.87	17.02	34.77	-19.90
				6	0	20.02	13.97	16.12	34.77	-20.80
	23095	707.5	64QAM	1	0	21.16	15.11	17.26	34.77	-19.66
				1	5	21.12	15.07	17.22	34.77	-19.70
				3	2	21.07	15.02	17.17	34.77	-19.75
				6	0	20.16	14.11	16.26	34.77	-20.66
	23173	715.5	64QAM	1	0	21.14	15.09	17.24	34.77	-19.68
				1	5	21.12	15.07	17.22	34.77	-19.70
				3	2	21.16	15.11	17.26	34.77	-19.66
				6	0	20.12	14.07	16.22	34.77	-20.70

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Antenna gain (dBi)		-3.9								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	23025	700.5	QPSK	1	0	23.05	17.00	19.15	34.77	-17.77
				1	14	23.03	16.98	19.13	34.77	-17.79
				8	4	21.92	15.87	18.02	34.77	-18.90
				15	0	21.99	15.94	18.09	34.77	-18.83
	23095	707.5	QPSK	1	0	23.06	17.01	19.16	34.77	-17.76
				1	14	23.02	16.97	19.12	34.77	-17.80
				8	4	22.03	15.98	18.13	34.77	-18.79
				15	0	22.03	15.98	18.13	34.77	-18.79
	23165	714.5	QPSK	1	0	23.21	17.16	19.31	34.77	-17.61
				1	14	23.07	17.02	19.17	34.77	-17.75
				8	4	22.13	16.08	18.23	34.77	-18.69
				15	0	22.16	16.11	18.26	34.77	-18.66
3	23025	700.5	16QAM	1	0	21.98	15.93	18.08	34.77	-18.84
				1	14	21.94	15.89	18.04	34.77	-18.88
				8	4	20.98	14.93	17.08	34.77	-19.84
				15	0	21.06	15.01	17.16	34.77	-19.76
	23095	707.5	16QAM	1	0	22.03	15.98	18.13	34.77	-18.79
				1	14	22.04	15.99	18.14	34.77	-18.78
				8	4	21.07	15.02	17.17	34.77	-19.75
				15	0	21.13	15.08	17.23	34.77	-19.69
	23165	714.5	16QAM	1	0	22.09	16.04	18.19	34.77	-18.73
				1	14	22.08	16.03	18.18	34.77	-18.74
				8	4	21.20	15.15	17.30	34.77	-19.62
				15	0	21.12	15.07	17.22	34.77	-19.70
3	23025	700.5	64QAM	1	0	20.95	14.90	17.05	34.77	-19.87
				1	14	21.02	14.97	17.12	34.77	-19.80
				8	4	20.01	13.96	16.11	34.77	-20.81
				15	0	19.96	13.91	16.06	34.77	-20.86
	23095	707.5	64QAM	1	0	21.07	15.02	17.17	34.77	-19.75
				1	14	21.03	14.98	17.13	34.77	-19.79
				8	4	20.06	14.01	16.16	34.77	-20.76
				15	0	20.05	14.00	16.15	34.77	-20.77
	23165	714.5	64QAM	1	0	21.14	15.09	17.24	34.77	-19.68
				1	14	21.12	15.07	17.22	34.77	-19.70
				8	4	20.20	14.15	16.30	34.77	-20.62
				15	0	20.12	14.07	16.22	34.77	-20.70

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Antenna gain (dBi)		-3.9								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23035	701.5	QPSK	1	0	22.94	16.89	19.04	34.77	-17.88
				1	24	22.98	16.93	19.08	34.77	-17.84
				12	6	21.94	15.89	18.04	34.77	-18.88
				25	0	22.00	15.95	18.10	34.77	-18.82
	23095	707.5	QPSK	1	0	23.16	17.11	19.26	34.77	-17.66
				1	24	23.09	17.04	19.19	34.77	-17.73
				12	6	22.06	16.01	18.16	34.77	-18.76
				25	0	22.03	15.98	18.13	34.77	-18.79
	23155	713.5	QPSK	1	0	23.10	17.05	19.20	34.77	-17.72
				1	24	23.20	17.15	19.30	34.77	-17.62
				12	6	22.12	16.07	18.22	34.77	-18.70
				25	0	22.21	16.16	18.31	34.77	-18.61
5	23035	701.5	16QAM	1	0	22.04	15.99	18.14	34.77	-18.78
				1	24	21.93	15.88	18.03	34.77	-18.89
				12	6	21.02	14.97	17.12	34.77	-19.80
				25	0	20.92	14.87	17.02	34.77	-19.90
	23095	707.5	16QAM	1	0	22.07	16.02	18.17	34.77	-18.75
				1	24	22.03	15.98	18.13	34.77	-18.79
				12	6	21.05	15.00	17.15	34.77	-19.77
				25	0	21.14	15.09	17.24	34.77	-19.68
	23155	713.5	16QAM	1	0	22.15	16.10	18.25	34.77	-18.67
				1	24	22.08	16.03	18.18	34.77	-18.74
				12	6	21.21	15.16	17.31	34.77	-19.61
				25	0	21.19	15.14	17.29	34.77	-19.63
5	23035	701.5	64QAM	1	0	20.95	14.90	17.05	34.77	-19.87
				1	24	21.05	15.00	17.15	34.77	-19.77
				12	6	20.04	13.99	16.14	34.77	-20.78
				25	0	19.92	13.87	16.02	34.77	-20.90
	23095	707.5	64QAM	1	0	21.12	15.07	17.22	34.77	-19.70
				1	24	21.16	15.11	17.26	34.77	-19.66
				12	6	20.04	13.99	16.14	34.77	-20.78
				25	0	20.08	14.03	16.18	34.77	-20.74
	23155	713.5	64QAM	1	0	21.09	15.04	17.19	34.77	-19.73
				1	24	21.15	15.10	17.25	34.77	-19.67
				12	6	20.20	14.15	16.30	34.77	-20.62
				25	0	20.15	14.10	16.25	34.77	-20.67

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Antenna gain (dBi)		-3.9								
LTE Band 12_Uplink frequency band : 699 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23060	704	QPSK	1	0	23.08	17.03	19.18	34.77	-17.74
				1	49	23.04	16.99	19.14	34.77	-17.78
				25	12	22.11	16.06	18.21	34.77	-18.71
				50	0	22.22	16.17	18.32	34.77	-18.60
	23095	707.5	QPSK	1	0	23.18	17.13	19.28	34.77	-17.64
				1	49	23.17	17.12	19.27	34.77	-17.65
				25	12	22.21	16.16	18.31	34.77	-18.61
				50	0	22.18	16.13	18.28	34.77	-18.64
	23130	711	QPSK	1	0	23.23	17.18	19.33	34.77	-17.59
				1	49	23.14	17.09	19.24	34.77	-17.68
				25	12	22.22	16.17	18.32	34.77	-18.60
				50	0	22.22	16.17	18.32	34.77	-18.60
10	23060	704	16QAM	1	0	22.03	15.98	18.13	34.77	-18.79
				1	49	22.06	16.01	18.16	34.77	-18.76
				25	12	21.01	14.96	17.11	34.77	-19.81
				50	0	20.95	14.90	17.05	34.77	-19.87
	23095	707.5	16QAM	1	0	22.09	16.04	18.19	34.77	-18.73
				1	49	22.13	16.08	18.23	34.77	-18.69
				25	12	21.06	15.01	17.16	34.77	-19.76
				50	0	21.14	15.09	17.24	34.77	-19.68
	23130	711	16QAM	1	0	22.13	16.08	18.23	34.77	-18.69
				1	49	22.09	16.04	18.19	34.77	-18.73
				25	12	21.07	15.02	17.17	34.77	-19.75
				50	0	21.18	15.13	17.28	34.77	-19.64
10	23060	704	64QAM	1	0	20.92	14.87	17.02	34.77	-19.90
				1	49	20.99	14.94	17.09	34.77	-19.83
				25	12	19.96	13.91	16.06	34.77	-20.86
				50	0	19.95	13.90	16.05	34.77	-20.87
	23095	707.5	64QAM	1	0	21.05	15.00	17.15	34.77	-19.77
				1	49	21.07	15.02	17.17	34.77	-19.75
				25	12	20.03	13.98	16.13	34.77	-20.79
				50	0	20.02	13.97	16.12	34.77	-20.80
	23130	711	64QAM	1	0	21.10	15.05	17.20	34.77	-19.72
				1	49	21.12	15.07	17.22	34.77	-19.70
				25	12	20.08	14.03	16.18	34.77	-20.74
				50	0	20.14	14.09	16.24	34.77	-20.68

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Antenna gain (dBi)		-4.4								
LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23755	706.5	QPSK	1	0	22.99	16.44	18.59	34.77	-18.33
				1	24	23.09	16.54	18.69	34.77	-18.23
				12	6	22.09	15.54	17.69	34.77	-19.23
				25	0	22.07	15.52	17.67	34.77	-19.25
	23790	710	QPSK	1	0	23.09	16.54	18.69	34.77	-18.23
				1	24	23.09	16.54	18.69	34.77	-18.23
				12	6	22.14	15.59	17.74	34.77	-19.18
				25	0	22.05	15.50	17.65	34.77	-19.27
	23825	713.5	QPSK	1	0	23.04	16.49	18.64	34.77	-18.28
				1	24	23.08	16.53	18.68	34.77	-18.24
				12	6	22.07	15.52	17.67	34.77	-19.25
				25	0	22.04	15.49	17.64	34.77	-19.28
5	23755	706.5	16QAM	1	0	22.12	15.57	17.72	34.77	-19.20
				1	24	22.01	15.46	17.61	34.77	-19.31
				12	6	21.02	14.47	16.62	34.77	-20.30
				25	0	21.07	14.52	16.67	34.77	-20.25
	23790	710	16QAM	1	0	22.11	15.56	17.71	34.77	-19.21
				1	24	22.09	15.54	17.69	34.77	-19.23
				12	6	21.07	14.52	16.67	34.77	-20.25
				25	0	21.08	14.53	16.68	34.77	-20.24
	23825	713.5	16QAM	1	0	22.03	15.48	17.63	34.77	-19.29
				1	24	22.00	15.45	17.60	34.77	-19.32
				12	6	21.07	14.52	16.67	34.77	-20.25
				25	0	21.06	14.51	16.66	34.77	-20.26
5	23755	706.5	64QAM	1	0	21.06	14.51	16.66	34.77	-20.26
				1	24	21.00	14.45	16.60	34.77	-20.32
				12	6	20.02	13.47	15.62	34.77	-21.30
				25	0	20.08	13.53	15.68	34.77	-21.24
	23790	710	64QAM	1	0	21.08	14.53	16.68	34.77	-20.24
				1	24	21.08	14.53	16.68	34.77	-20.24
				12	6	20.09	13.54	15.69	34.77	-21.23
				25	0	20.14	13.59	15.74	34.77	-21.18
	23825	713.5	64QAM	1	0	21.01	14.46	16.61	34.77	-20.31
				1	24	21.04	14.49	16.64	34.77	-20.28
				12	6	20.00	13.45	15.60	34.77	-21.32
				25	0	20.07	13.52	15.67	34.77	-21.25

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Antenna gain (dBi)		-4.4								
LTE Band 17_Uplink frequency band : 704 to 716 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23780	709	QPSK	1	0	23.14	16.59	18.74	34.77	-18.18
				1	49	23.04	16.49	18.64	34.77	-18.28
				25	12	22.16	15.61	17.76	34.77	-19.16
				50	0	22.21	15.66	17.81	34.77	-19.11
	23790	710	QPSK	1	0	23.17	16.62	18.77	34.77	-18.15
				1	49	23.08	16.53	18.68	34.77	-18.24
				25	12	22.19	15.64	17.79	34.77	-19.13
				50	0	22.13	15.58	17.73	34.77	-19.19
	23800	711	QPSK	1	0	23.16	16.61	18.76	34.77	-18.16
				1	49	23.12	16.57	18.72	34.77	-18.20
				25	12	22.16	15.61	17.76	34.77	-19.16
				50	0	22.17	15.62	17.77	34.77	-19.15
10	23780	709	16QAM	1	0	22.02	15.47	17.62	34.77	-19.30
				1	49	22.04	15.49	17.64	34.77	-19.28
				25	12	21.06	14.51	16.66	34.77	-20.26
				50	0	21.00	14.45	16.60	34.77	-20.32
	23790	710	16QAM	1	0	22.03	15.48	17.63	34.77	-19.29
				1	49	22.08	15.53	17.68	34.77	-19.24
				25	12	21.05	14.50	16.65	34.77	-20.27
				50	0	21.11	14.56	16.71	34.77	-20.21
	23800	711	16QAM	1	0	22.09	15.54	17.69	34.77	-19.23
				1	49	22.06	15.51	17.66	34.77	-19.26
				25	12	21.13	14.58	16.73	34.77	-20.19
				50	0	21.00	14.45	16.60	34.77	-20.32
10	23780	709	64QAM	1	0	21.00	14.45	16.60	34.77	-20.32
				1	49	20.99	14.44	16.59	34.77	-20.33
				25	12	20.11	13.56	15.71	34.77	-21.21
				50	0	19.99	13.44	15.59	34.77	-21.33
	23790	710	64QAM	1	0	21.13	14.58	16.73	34.77	-20.19
				1	49	21.10	14.55	16.70	34.77	-20.22
				25	12	20.09	13.54	15.69	34.77	-21.23
				50	0	20.02	13.47	15.62	34.77	-21.30
	23800	711	64QAM	1	0	21.03	14.48	16.63	34.77	-20.29
				1	49	21.02	14.47	16.62	34.77	-20.30
				25	12	20.02	13.47	15.62	34.77	-21.30
				50	0	20.08	13.53	15.68	34.77	-21.24

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Antenna gain (dBi)		0.36							
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	22.09	22.45	33	-10.55
				1	5	22.14	22.50	33	-10.5
				3	2	22.02	22.38	33	-10.62
				6	0	21.02	21.38	33	-11.62
	26365	1882.5	QPSK	1	0	22.23	22.59	33	-10.41
				1	5	22.27	22.63	33	-10.37
				3	2	22.23	22.59	33	-10.41
				6	0	21.27	21.63	33	-11.37
	26683	1914.3	QPSK	1	0	22.35	22.71	33	-10.29
				1	5	22.33	22.69	33	-10.31
				3	2	22.46	22.82	33	-10.18
				6	0	21.38	21.74	33	-11.26
1.4	26047	1850.7	16QAM	1	0	21.03	21.39	33	-11.61
				1	5	21.01	21.37	33	-11.63
				3	2	21.00	21.36	33	-11.64
				6	0	20.03	20.39	33	-12.61
	26365	1882.5	16QAM	1	0	21.25	21.61	33	-11.39
				1	5	21.31	21.67	33	-11.33
				3	2	21.34	21.70	33	-11.3
				6	0	20.26	20.62	33	-12.38
	26683	1914.3	16QAM	1	0	21.36	21.72	33	-11.28
				1	5	21.40	21.76	33	-11.24
				3	2	21.37	21.73	33	-11.27
				6	0	20.37	20.73	33	-12.27
1.4	26047	1850.7	64QAM	1	0	20.12	20.48	33	-12.52
				1	5	20.03	20.39	33	-12.61
				3	2	20.01	20.37	33	-12.63
				6	0	19.02	19.38	33	-13.62
	26365	1882.5	64QAM	1	0	20.24	20.60	33	-12.4
				1	5	20.35	20.71	33	-12.29
				3	2	20.30	20.66	33	-12.34
				6	0	19.30	19.66	33	-13.34
	26683	1914.3	64QAM	1	0	20.37	20.73	33	-12.27
				1	5	20.37	20.73	33	-12.27
				3	2	20.33	20.69	33	-12.31
				6	0	19.36	19.72	33	-13.28

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Antenna gain (dBi)		0.36							
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	22.06	22.42	33	-10.58
				1	14	22.03	22.39	33	-10.61
				8	4	21.00	21.36	33	-11.64
				15	0	20.98	21.34	33	-11.66
	26365	1882.5	QPSK	1	0	22.21	22.57	33	-10.43
				1	14	22.33	22.69	33	-10.31
				8	4	21.20	21.56	33	-11.44
				15	0	21.29	21.65	33	-11.35
	26675	1913.5	QPSK	1	0	22.41	22.77	33	-10.23
				1	14	22.41	22.77	33	-10.23
				8	4	21.41	21.77	33	-11.23
				15	0	21.30	21.66	33	-11.34
3	26055	1851.5	16QAM	1	0	21.00	21.36	33	-11.64
				1	14	20.98	21.34	33	-11.66
				8	4	20.09	20.45	33	-12.55
				15	0	20.04	20.40	33	-12.6
	26365	1882.5	16QAM	1	0	21.32	21.68	33	-11.32
				1	14	21.31	21.67	33	-11.33
				8	4	20.24	20.60	33	-12.4
				15	0	20.33	20.69	33	-12.31
	26675	1913.5	16QAM	1	0	21.38	21.74	33	-11.26
				1	14	21.37	21.73	33	-11.27
				8	4	20.36	20.72	33	-12.28
				15	0	20.42	20.78	33	-12.22
3	26055	1851.5	64QAM	1	0	19.98	20.34	33	-12.66
				1	14	20.02	20.38	33	-12.62
				8	4	19.05	19.41	33	-13.59
				15	0	19.11	19.47	33	-13.53
	26365	1882.5	64QAM	1	0	20.19	20.55	33	-12.45
				1	14	20.25	20.61	33	-12.39
				8	4	19.26	19.62	33	-13.38
				15	0	19.19	19.55	33	-13.45
	26675	1913.5	64QAM	1	0	20.33	20.69	33	-12.31
				1	14	20.34	20.70	33	-12.3
				8	4	19.42	19.78	33	-13.22
				15	0	19.43	19.79	33	-13.21

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	26065	1852.5	QPSK	1	0	22.04	22.40	33	-10.6
				1	24	22.05	22.41	33	-10.59
				12	6	21.03	21.39	33	-11.61
				25	0	21.09	21.45	33	-11.55
	26365	1882.5	QPSK	1	0	22.25	22.61	33	-10.39
				1	24	22.26	22.62	33	-10.38
				12	6	21.33	21.69	33	-11.31
				25	0	21.29	21.65	33	-11.35
	26665	1912.5	QPSK	1	0	22.40	22.76	33	-10.24
				1	24	22.40	22.76	33	-10.24
				12	6	21.31	21.67	33	-11.33
				25	0	21.43	21.79	33	-11.21
5	26065	1852.5	16QAM	1	0	21.00	21.36	33	-11.64
				1	24	21.10	21.46	33	-11.54
				12	6	20.11	20.47	33	-12.53
				25	0	20.00	20.36	33	-12.64
	26365	1882.5	16QAM	1	0	21.31	21.67	33	-11.33
				1	24	21.28	21.64	33	-11.36
				12	6	20.27	20.63	33	-12.37
				25	0	20.25	20.61	33	-12.39
	26665	1912.5	16QAM	1	0	21.36	21.72	33	-11.28
				1	24	21.43	21.79	33	-11.21
				12	6	20.38	20.74	33	-12.26
				25	0	20.36	20.72	33	-12.28
5	26065	1852.5	64QAM	1	0	20.01	20.37	33	-12.63
				1	24	20.04	20.40	33	-12.6
				12	6	19.02	19.38	33	-13.62
				25	0	19.00	19.36	33	-13.64
	26365	1882.5	64QAM	1	0	20.25	20.61	33	-12.39
				1	24	20.20	20.56	33	-12.44
				12	6	19.31	19.67	33	-13.33
				25	0	19.20	19.56	33	-13.44
	26665	1912.5	64QAM	1	0	20.39	20.75	33	-12.25
				1	24	20.32	20.68	33	-12.32
				12	6	19.42	19.78	33	-13.22
				25	0	19.43	19.79	33	-13.21

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	26090	1855	QPSK	1	0	22.10	22.46	33	-10.54
				1	49	21.98	22.34	33	-10.66
				25	12	21.06	21.42	33	-11.58
				50	0	21.07	21.43	33	-11.57
	26365	1882.5	QPSK	1	0	22.25	22.61	33	-10.39
				1	49	22.27	22.63	33	-10.37
				25	12	21.26	21.62	33	-11.38
				50	0	21.33	21.69	33	-11.31
	26640	1910	QPSK	1	0	22.37	22.73	33	-10.27
				1	49	22.39	22.75	33	-10.25
				25	12	21.36	21.72	33	-11.28
				50	0	21.33	21.69	33	-11.31
10	26090	1855	16QAM	1	0	21.04	21.40	33	-11.6
				1	49	21.06	21.42	33	-11.58
				25	12	20.01	20.37	33	-12.63
				50	0	20.03	20.39	33	-12.61
	26365	1882.5	16QAM	1	0	21.27	21.63	33	-11.37
				1	49	21.29	21.65	33	-11.35
				25	12	20.27	20.63	33	-12.37
				50	0	20.20	20.56	33	-12.44
	26640	1910	16QAM	1	0	21.31	21.67	33	-11.33
				1	49	21.33	21.69	33	-11.31
				25	12	20.35	20.71	33	-12.29
				50	0	20.36	20.72	33	-12.28
10	26090	1855	64QAM	1	0	20.05	20.41	33	-12.59
				1	49	20.07	20.43	33	-12.57
				25	12	19.08	19.44	33	-13.56
				50	0	19.10	19.46	33	-13.54
	26365	1882.5	64QAM	1	0	20.19	20.55	33	-12.45
				1	49	20.28	20.64	33	-12.36
				25	12	19.33	19.69	33	-13.31
				50	0	19.32	19.68	33	-13.32
	26640	1910	64QAM	1	0	20.38	20.74	33	-12.26
				1	49	20.42	20.78	33	-12.22
				25	12	19.34	19.70	33	-13.3
				50	0	19.35	19.71	33	-13.29

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	26115	1857.5	QPSK	1	0	22.08	22.44	33	-10.56
				1	74	22.02	22.38	33	-10.62
				36	18	21.11	21.47	33	-11.53
				75	0	21.08	21.44	33	-11.56
	26365	1882.5	QPSK	1	0	22.19	22.55	33	-10.45
				1	74	22.21	22.57	33	-10.43
				36	18	21.23	21.59	33	-11.41
				75	0	21.28	21.64	33	-11.36
	26615	1907.5	QPSK	1	0	22.36	22.72	33	-10.28
				1	74	22.38	22.74	33	-10.26
				36	18	21.37	21.73	33	-11.27
				75	0	21.39	21.75	33	-11.25
15	26115	1857.5	16QAM	1	0	21.03	21.39	33	-11.61
				1	74	21.03	21.39	33	-11.61
				36	18	20.02	20.38	33	-12.62
				75	0	20.02	20.38	33	-12.62
	26365	1882.5	16QAM	1	0	21.19	21.55	33	-11.45
				1	74	21.33	21.69	33	-11.31
				36	18	20.19	20.55	33	-12.45
				75	0	20.24	20.60	33	-12.4
	26615	1907.5	16QAM	1	0	21.43	21.79	33	-11.21
				1	74	21.34	21.70	33	-11.3
				36	18	20.38	20.74	33	-12.26
				75	0	20.31	20.67	33	-12.33
15	26115	1857.5	64QAM	1	0	20.04	20.40	33	-12.6
				1	74	20.08	20.44	33	-12.56
				36	18	19.03	19.39	33	-13.61
				75	0	19.01	19.37	33	-13.63
	26365	1882.5	64QAM	1	0	20.30	20.66	33	-12.34
				1	74	20.32	20.68	33	-12.32
				36	18	19.27	19.63	33	-13.37
				75	0	19.21	19.57	33	-13.43
	26615	1907.5	64QAM	1	0	20.37	20.73	33	-12.27
				1	74	20.39	20.75	33	-12.25
				36	18	19.32	19.68	33	-13.32
				75	0	19.37	19.73	33	-13.27

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LTE Band 25_Uplink frequency band : 1850 to 1915 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	26140	1860	QPSK	1	0	22.14	22.50	33	-10.5
				1	99	22.16	22.52	33	-10.48
				50	25	21.29	21.65	33	-11.35
				100	0	21.28	21.64	33	-11.36
	26365	1882.5	QPSK	1	0	22.35	22.71	33	-10.29
				1	99	22.36	22.72	33	-10.28
				50	25	21.48	21.84	33	-11.16
				100	0	21.46	21.82	33	-11.18
	26590	1905	QPSK	1	0	22.46	22.82	33	-10.18
				1	99	22.39	22.75	33	-10.25
				50	25	21.59	21.95	33	-11.05
				100	0	21.52	21.88	33	-11.12
20	26140	1860	16QAM	1	0	21.00	21.36	33	-11.64
				1	99	21.01	21.37	33	-11.63
				50	25	20.07	20.43	33	-12.57
				100	0	20.02	20.38	33	-12.62
	26365	1882.5	16QAM	1	0	21.27	21.63	33	-11.37
				1	99	21.26	21.62	33	-11.38
				50	25	20.25	20.61	33	-12.39
				100	0	20.28	20.64	33	-12.36
	26590	1905	16QAM	1	0	21.44	21.80	33	-11.2
				1	99	21.40	21.76	33	-11.24
				50	25	20.42	20.78	33	-12.22
				100	0	20.38	20.74	33	-12.26
20	26140	1860	64QAM	1	0	20.00	20.36	33	-12.64
				1	99	20.12	20.48	33	-12.52
				50	25	19.04	19.40	33	-13.6
				100	0	19.03	19.39	33	-13.61
	26365	1882.5	64QAM	1	0	20.32	20.68	33	-12.32
				1	99	20.20	20.56	33	-12.44
				50	25	19.19	19.55	33	-13.45
				100	0	19.22	19.58	33	-13.42
	26590	1905	64QAM	1	0	20.38	20.74	33	-12.26
				1	99	20.42	20.78	33	-12.22
				50	25	19.34	19.70	33	-13.3
				100	0	19.38	19.74	33	-13.26

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Antenna gain (dBi)		-5.7								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26797	824.7	QPSK	1	0	23.22	15.37	17.52	38.45	-23.08
				1	5	23.20	15.35	17.50	38.45	-23.10
				3	2	23.28	15.43	17.58	38.45	-23.02
				6	0	22.29	14.44	16.59	38.45	-24.01
	26915	836.5	QPSK	1	0	23.10	15.25	17.40	38.45	-23.20
				1	5	23.01	15.16	17.31	38.45	-23.29
				3	2	23.17	15.32	17.47	38.45	-23.13
				6	0	22.21	14.36	16.51	38.45	-24.09
	27033	848.3	QPSK	1	0	22.81	14.96	17.11	38.45	-23.49
				1	5	22.76	14.91	17.06	38.45	-23.54
				3	2	22.78	14.93	17.08	38.45	-23.52
				6	0	21.92	14.07	16.22	38.45	-24.38
1.4	26797	824.7	16QAM	1	0	22.55	14.70	16.85	38.45	-23.75
				1	5	22.57	14.72	16.87	38.45	-23.73
				3	2	22.38	14.53	16.68	38.45	-23.92
				6	0	21.47	13.62	15.77	38.45	-24.83
	26915	836.5	16QAM	1	0	22.49	14.64	16.79	38.45	-23.81
				1	5	22.31	14.46	16.61	38.45	-23.99
				3	2	22.23	14.38	16.53	38.45	-24.07
				6	0	21.30	13.45	15.60	38.45	-25.00
	27033	848.3	16QAM	1	0	22.03	14.18	16.33	38.45	-24.27
				1	5	21.81	13.96	16.11	38.45	-24.49
				3	2	21.94	14.09	16.24	38.45	-24.36
				6	0	20.94	13.09	15.24	38.45	-25.36
1.4	26797	824.7	64QAM	1	0	21.32	13.47	15.62	38.45	-24.98
				1	5	20.21	12.36	14.51	38.45	-26.09
				3	2	20.50	12.65	14.80	38.45	-25.80
				6	0	18.32	10.47	12.62	38.45	-27.98
	26915	836.5	64QAM	1	0	21.36	13.51	15.66	38.45	-24.94
				1	5	20.27	12.42	14.57	38.45	-26.03
				3	2	20.18	12.33	14.48	38.45	-26.12
				6	0	18.21	10.36	12.51	38.45	-28.09
	27033	848.3	64QAM	1	0	21.12	13.27	15.42	38.45	-25.18
				1	5	21.03	13.18	15.33	38.45	-25.27
				3	2	21.09	13.24	15.39	38.45	-25.21
				6	0	19.95	12.10	14.25	38.45	-26.35

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Antenna gain (dBi)		-5.7								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26805	825.5	QPSK	1	0	23.34	15.49	17.64	38.45	-22.96
				1	14	23.29	15.44	17.59	38.45	-23.01
				8	4	22.47	14.62	16.77	38.45	-23.83
				15	0	22.37	14.52	16.67	38.45	-23.93
	26915	836.5	QPSK	1	0	23.23	15.38	17.53	38.45	-23.07
				1	14	23.14	15.29	17.44	38.45	-23.16
				8	4	22.27	14.42	16.57	38.45	-24.03
				15	0	22.24	14.39	16.54	38.45	-24.06
	27025	847.5	QPSK	1	0	23.00	15.15	17.30	38.45	-23.30
				1	14	22.90	15.05	17.20	38.45	-23.40
				8	4	22.00	14.15	16.30	38.45	-24.30
				15	0	22.02	14.17	16.32	38.45	-24.28
3	26805	825.5	16QAM	1	0	22.49	14.64	16.79	38.45	-23.81
				1	14	22.83	14.98	17.13	38.45	-23.47
				8	4	21.56	13.71	15.86	38.45	-24.74
				15	0	21.43	13.58	15.73	38.45	-24.87
	26915	836.5	16QAM	1	0	22.38	14.53	16.68	38.45	-23.92
				1	14	22.38	14.53	16.68	38.45	-23.92
				8	4	21.40	13.55	15.70	38.45	-24.90
				15	0	21.26	13.41	15.56	38.45	-25.04
	27025	847.5	16QAM	1	0	22.31	14.46	16.61	38.45	-23.99
				1	14	21.69	13.84	15.99	38.45	-24.61
				8	4	21.15	13.30	15.45	38.45	-25.15
				15	0	21.05	13.20	15.35	38.45	-25.25
3	26805	825.5	64QAM	1	0	21.60	13.75	15.90	38.45	-24.70
				1	14	21.38	13.53	15.68	38.45	-24.92
				8	4	20.44	12.59	14.74	38.45	-25.86
				15	0	20.37	12.52	14.67	38.45	-25.93
	26915	836.5	64QAM	1	0	21.52	13.67	15.82	38.45	-24.78
				1	14	20.99	13.14	15.29	38.45	-25.31
				8	4	20.27	12.42	14.57	38.45	-26.03
				15	0	20.16	12.31	14.46	38.45	-26.14
	27025	847.5	64QAM	1	0	21.01	13.16	15.31	38.45	-25.29
				1	14	20.95	13.10	15.25	38.45	-25.35
				8	4	20.12	12.27	14.42	38.45	-26.18
				15	0	20.12	12.27	14.42	38.45	-26.18

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Antenna gain (dBi)		-5.7								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26815	826.5	QPSK	1	0	23.33	15.48	17.63	38.45	-22.97
				1	24	23.32	15.47	17.62	38.45	-22.98
				12	6	22.46	14.61	16.76	38.45	-23.84
				25	0	22.42	14.57	16.72	38.45	-23.88
	26915	836.5	QPSK	1	0	23.18	15.33	17.48	38.45	-23.12
				1	24	23.07	15.22	17.37	38.45	-23.23
				12	6	22.30	14.45	16.60	38.45	-24.00
				25	0	22.20	14.35	16.50	38.45	-24.10
	27015	846.5	QPSK	1	0	23.05	15.20	17.35	38.45	-23.25
				1	24	22.92	15.07	17.22	38.45	-23.38
				12	6	22.10	14.25	16.40	38.45	-24.20
				25	0	22.03	14.18	16.33	38.45	-24.27
5	26815	826.5	16QAM	1	0	22.56	14.71	16.86	38.45	-23.74
				1	24	22.34	14.49	16.64	38.45	-23.96
				12	6	21.53	13.68	15.83	38.45	-24.77
				25	0	21.43	13.58	15.73	38.45	-24.87
	26915	836.5	16QAM	1	0	22.69	14.84	16.99	38.45	-23.61
				1	24	22.39	14.54	16.69	38.45	-23.91
				12	6	21.27	13.42	15.57	38.45	-25.03
				25	0	21.29	13.44	15.59	38.45	-25.01
	27015	846.5	16QAM	1	0	22.36	14.51	16.66	38.45	-23.94
				1	24	22.27	14.42	16.57	38.45	-24.03
				12	6	21.07	13.22	15.37	38.45	-25.23
				25	0	21.05	13.20	15.35	38.45	-25.25
5	26815	826.5	64QAM	1	0	20.84	12.99	15.14	38.45	-25.46
				1	24	21.36	13.51	15.66	38.45	-24.94
				12	6	20.54	12.69	14.84	38.45	-25.76
				25	0	20.36	12.51	14.66	38.45	-25.94
	26915	836.5	64QAM	1	0	21.45	13.60	15.75	38.45	-24.85
				1	24	21.29	13.44	15.59	38.45	-25.01
				12	6	20.37	12.52	14.67	38.45	-25.93
				25	0	20.23	12.38	14.53	38.45	-26.07
	27015	846.5	64QAM	1	0	21.21	13.36	15.51	38.45	-25.09
				1	24	21.33	13.48	15.63	38.45	-24.97
				12	6	20.10	12.25	14.40	38.45	-26.20
				25	0	20.07	12.22	14.37	38.45	-26.23

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Antenna gain (dBi)		-5.7								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26840	829	QPSK	1	0	23.29	15.44	17.59	38.45	-23.01
				1	49	23.18	15.33	17.48	38.45	-23.12
				25	12	22.43	14.58	16.73	38.45	-23.87
				50	0	22.40	14.55	16.70	38.45	-23.90
	26915	836.5	QPSK	1	0	23.27	15.42	17.57	38.45	-23.03
				1	49	23.30	15.45	17.60	38.45	-23.00
				25	12	22.26	14.41	16.56	38.45	-24.04
				50	0	22.35	14.50	16.65	38.45	-23.95
	26990	844	QPSK	1	0	22.98	15.13	17.28	38.45	-23.32
				1	49	22.86	15.01	17.16	38.45	-23.44
				25	12	22.09	14.24	16.39	38.45	-24.21
				50	0	22.15	14.30	16.45	38.45	-24.15
10	26840	829	16QAM	1	0	22.40	14.55	16.70	38.45	-23.90
				1	49	22.74	14.89	17.04	38.45	-23.56
				25	12	21.31	13.46	15.61	38.45	-24.99
				50	0	21.35	13.50	15.65	38.45	-24.95
	26915	836.5	16QAM	1	0	22.40	14.55	16.70	38.45	-23.90
				1	49	22.35	14.50	16.65	38.45	-23.95
				25	12	21.22	13.37	15.52	38.45	-25.08
				50	0	21.21	13.36	15.51	38.45	-25.09
	26990	844	16QAM	1	0	22.41	14.56	16.71	38.45	-23.89
				1	49	22.29	14.44	16.59	38.45	-24.01
				25	12	21.12	13.27	15.42	38.45	-25.18
				50	0	21.10	13.25	15.40	38.45	-25.20
10	26840	829	64QAM	1	0	21.37	13.52	15.67	38.45	-24.93
				1	49	21.44	13.59	15.74	38.45	-24.86
				25	12	20.48	12.63	14.78	38.45	-25.82
				50	0	20.42	12.57	14.72	38.45	-25.88
	26915	836.5	64QAM	1	0	21.41	13.56	15.71	38.45	-24.89
				1	49	21.23	13.38	15.53	38.45	-25.07
				25	12	20.32	12.47	14.62	38.45	-25.98
				50	0	20.29	12.44	14.59	38.45	-26.01
	26990	844	64QAM	1	0	21.20	13.35	15.50	38.45	-25.10
				1	49	21.17	13.32	15.47	38.45	-25.13
				25	12	20.09	12.24	14.39	38.45	-26.21
				50	0	20.06	12.21	14.36	38.45	-26.24

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Antenna gain (dBi)		-5.7								
LTE Band 26_Uplink frequency band : 824 to 849 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
15	26865	831.5	QPSK	1	0	23.21	15.36	17.51	38.45	-23.09
				1	74	22.83	14.98	17.13	38.45	-23.47
				36	18	22.28	14.43	16.58	38.45	-24.02
				75	0	22.26	14.41	16.56	38.45	-24.04
	26915	836.5	QPSK	1	0	23.11	15.26	17.41	38.45	-23.19
				1	74	22.83	14.98	17.13	38.45	-23.47
				36	18	22.23	14.38	16.53	38.45	-24.07
				75	0	22.17	14.32	16.47	38.45	-24.13
	26965	841.5	QPSK	1	0	23.24	15.39	17.54	38.45	-23.06
				1	74	22.73	14.88	17.03	38.45	-23.57
				36	18	22.11	14.26	16.41	38.45	-24.19
				75	0	22.10	14.25	16.40	38.45	-24.20
15	26865	831.5	16QAM	1	0	22.50	14.65	16.80	38.45	-23.80
				1	74	22.18	14.33	16.48	38.45	-24.12
				36	18	21.30	13.45	15.60	38.45	-25.00
				75	0	21.16	13.31	15.46	38.45	-25.14
	26915	836.5	16QAM	1	0	22.58	14.73	16.88	38.45	-23.72
				1	74	22.28	14.43	16.58	38.45	-24.02
				36	18	21.26	13.41	15.56	38.45	-25.04
				75	0	21.20	13.35	15.50	38.45	-25.10
	26965	841.5	16QAM	1	0	22.35	14.50	16.65	38.45	-23.95
				1	74	21.91	14.06	16.21	38.45	-24.39
				36	18	21.08	13.23	15.38	38.45	-25.22
				75	0	21.17	13.32	15.47	38.45	-25.13
15	26865	831.5	64QAM	1	0	21.28	13.43	15.58	38.45	-25.02
				1	74	21.10	13.25	15.40	38.45	-25.20
				36	18	20.35	12.50	14.65	38.45	-25.95
				75	0	20.21	12.36	14.51	38.45	-26.09
	26915	836.5	64QAM	1	0	21.41	13.56	15.71	38.45	-24.89
				1	74	21.05	13.20	15.35	38.45	-25.25
				36	18	20.24	12.39	14.54	38.45	-26.06
				75	0	20.20	12.35	14.50	38.45	-26.10
	26965	841.5	64QAM	1	0	21.20	13.35	15.50	38.45	-25.10
				1	74	20.98	13.13	15.28	38.45	-25.32
				36	18	20.16	12.31	14.46	38.45	-26.14
				75	0	20.11	12.26	14.41	38.45	-26.19

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Antenna gain (dBi)	-7.2
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## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
1.4	26697	814.7	QPSK	1	0	23.30	13.95	16.10	50	-36.05
				1	5	23.29	13.94	16.09	50	-36.06
				3	2	23.35	14.00	16.15	50	-36.00
				6	0	22.50	13.15	15.30	50	-36.85
	26740	819	QPSK	1	0	23.25	13.90	16.05	50	-36.10
				1	5	23.28	13.93	16.08	50	-36.07
				3	2	23.31	13.96	16.11	50	-36.04
				6	0	22.32	12.97	15.12	50	-37.03
	26783	823.3	QPSK	1	0	23.24	13.89	16.04	50	-36.11
				1	5	23.17	13.82	15.97	50	-36.18
				3	2	23.31	13.96	16.11	50	-36.04
				6	0	22.33	12.98	15.13	50	-37.02
1.4	26697	814.7	16QAM	1	0	22.75	13.40	15.55	50	-36.60
				1	5	22.63	13.28	15.43	50	-36.72
				3	2	22.39	13.04	15.19	50	-36.96
				6	0	21.54	12.19	14.34	50	-37.81
	26740	819	16QAM	1	0	22.30	12.95	15.10	50	-37.05
				1	5	22.70	13.35	15.50	50	-36.65
				3	2	22.41	13.06	15.21	50	-36.94
				6	0	21.45	12.10	14.25	50	-37.90
	26783	823.3	16QAM	1	0	22.56	13.21	15.36	50	-36.79
				1	5	22.44	13.09	15.24	50	-36.91
				3	2	22.27	12.92	15.07	50	-37.08
				6	0	21.46	12.11	14.26	50	-37.89
1.4	26697	814.7	64QAM	1	0	21.27	11.92	14.07	50	-38.08
				1	5	21.28	11.93	14.08	50	-38.07
				3	2	21.51	12.16	14.31	50	-37.84
				6	0	20.38	11.03	13.18	50	-38.97
	26740	819	64QAM	1	0	21.51	12.16	14.31	50	-37.84
				1	5	21.37	12.02	14.17	50	-37.98
				3	2	21.49	12.14	14.29	50	-37.86
				6	0	20.28	10.93	13.08	50	-39.07
	26783	823.3	64QAM	1	0	21.69	12.34	14.49	50	-37.66
				1	5	21.19	11.84	13.99	50	-38.16
				3	2	21.49	12.14	14.29	50	-37.86
				6	0	20.32	10.97	13.12	50	-39.03

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Antenna gain (dBi)	-7.2
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## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
3	26705	815.5	QPSK	1	0	23.39	14.04	16.19	50	-35.96
				1	14	23.32	13.97	16.12	50	-36.03
				8	4	22.40	13.05	15.20	50	-36.95
				15	0	22.55	13.20	15.35	50	-36.80
	26740	819	QPSK	1	0	23.41	14.06	16.21	50	-35.94
				1	14	23.32	13.97	16.12	50	-36.03
				8	4	22.48	13.13	15.28	50	-36.87
				15	0	22.49	13.14	15.29	50	-36.86
	26775	822.5	QPSK	1	0	23.27	13.92	16.07	50	-36.08
				1	14	23.30	13.95	16.10	50	-36.05
				8	4	22.50	13.15	15.30	50	-36.85
				15	0	22.48	13.13	15.28	50	-36.87
3	26705	815.5	16QAM	1	0	22.71	13.36	15.51	50	-36.64
				1	14	22.64	13.29	15.44	50	-36.71
				8	4	21.51	12.16	14.31	50	-37.84
				15	0	21.51	12.16	14.31	50	-37.84
	26740	819	16QAM	1	0	22.74	13.39	15.54	50	-36.61
				1	14	22.72	13.37	15.52	50	-36.63
				8	4	21.55	12.20	14.35	50	-37.80
				15	0	21.46	12.11	14.26	50	-37.89
	26775	822.5	16QAM	1	0	22.48	13.13	15.28	50	-36.87
				1	14	22.54	13.19	15.34	50	-36.81
				8	4	21.42	12.07	14.22	50	-37.93
				15	0	21.46	12.11	14.26	50	-37.89
3	26705	815.5	64QAM	1	0	21.37	12.02	14.17	50	-37.98
				1	14	21.45	12.10	14.25	50	-37.90
				8	4	20.60	11.25	13.40	50	-38.75
				15	0	20.59	11.24	13.39	50	-38.76
	26740	819	64QAM	1	0	21.64	12.29	14.44	50	-37.71
				1	14	21.65	12.30	14.45	50	-37.70
				8	4	20.57	11.22	13.37	50	-38.78
				15	0	20.52	11.17	13.32	50	-38.83
	26775	822.5	64QAM	1	0	20.66	11.31	13.46	50	-38.69
				1	14	21.62	12.27	14.42	50	-37.73
				8	4	20.52	11.17	13.32	50	-38.83
				15	0	20.42	11.07	13.22	50	-38.93

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Antenna gain (dBi)	-7.2
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## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	26715	816.5	QPSK	1	0	23.45	14.10	16.25	50	-35.90
				1	24	23.32	13.97	16.12	50	-36.03
				12	6	22.55	13.20	15.35	50	-36.80
				25	0	22.49	13.14	15.29	50	-36.86
	26740	819	QPSK	1	0	23.34	13.99	16.14	50	-36.01
				1	24	23.41	14.06	16.21	50	-35.94
				12	6	22.54	13.19	15.34	50	-36.81
				25	0	22.45	13.10	15.25	50	-36.90
	26765	821.5	QPSK	1	0	23.28	13.93	16.08	50	-36.07
				1	24	23.32	13.97	16.12	50	-36.03
				12	6	22.43	13.08	15.23	50	-36.92
				25	0	22.51	13.16	15.31	50	-36.84
5	26715	816.5	16QAM	1	0	22.77	13.42	15.57	50	-36.58
				1	24	22.61	13.26	15.41	50	-36.74
				12	6	21.58	12.23	14.38	50	-37.77
				25	0	21.60	12.25	14.40	50	-37.75
	26740	819	16QAM	1	0	22.72	13.37	15.52	50	-36.63
				1	24	22.59	13.24	15.39	50	-36.76
				12	6	21.45	12.10	14.25	50	-37.90
				25	0	21.46	12.11	14.26	50	-37.89
	26765	821.5	16QAM	1	0	22.68	13.33	15.48	50	-36.67
				1	24	22.75	13.40	15.55	50	-36.60
				12	6	21.47	12.12	14.27	50	-37.88
				25	0	21.30	11.95	14.10	50	-38.05
5	26715	816.5	64QAM	1	0	21.61	12.26	14.41	50	-37.74
				1	24	21.27	11.92	14.07	50	-38.08
				12	6	20.57	11.22	13.37	50	-38.78
				25	0	20.49	11.14	13.29	50	-38.86
	26740	819	64QAM	1	0	21.54	12.19	14.34	50	-37.81
				1	24	21.44	12.09	14.24	50	-37.91
				12	6	20.55	11.20	13.35	50	-38.80
				25	0	20.43	11.08	13.23	50	-38.92
	26765	821.5	64QAM	1	0	21.53	12.18	14.33	50	-37.82
				1	24	21.14	11.79	13.94	50	-38.21
				12	6	20.54	11.19	13.34	50	-38.81
				25	0	20.53	11.18	13.33	50	-38.82

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Antenna gain (dBi)	-7.2
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## Part 90S\_LTE Band 26\_Uplink frequency band : 814 to 824 MHz

BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	26740	819	QPSK	1	0	23.44	14.09	16.24	50	-35.91
				1	49	23.32	13.97	16.12	50	-36.03
				25	12	22.55	13.20	15.35	50	-36.80
				50	0	22.40	13.05	15.20	50	-36.95
10	26740	819	16QAM	1	0	22.58	13.23	15.38	50	-36.77
				1	49	22.77	13.42	15.57	50	-36.58
				25	12	21.55	12.20	14.35	50	-37.80
				50	0	21.48	12.13	14.28	50	-37.87
10	26740	819	64QAM	1	0	21.32	11.97	14.12	50	-38.03
				1	49	21.41	12.06	14.21	50	-37.94
				25	12	20.45	11.10	13.25	50	-38.90
				50	0	20.51	11.16	13.31	50	-38.84

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Antenna gain (dBi)		-1.61							
LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
5	27685	2307.5	QPSK	1	0	22.19	20.58	24	-3.42
				1	24	22.23	20.62	24	-3.38
				12	6	21.24	19.63	24	-4.37
				25	0	21.21	19.60	24	-4.4
	27710	2310	QPSK	1	0	22.23	20.62	24	-3.38
				1	24	22.15	20.54	24	-3.46
				12	6	21.26	19.65	24	-4.35
				25	0	21.21	19.60	24	-4.4
	27735	2312.5	QPSK	1	0	22.25	20.64	24	-3.36
				1	24	22.26	20.65	24	-3.35
				12	6	21.23	19.62	24	-4.38
				25	0	21.17	19.56	24	-4.44
5	27685	2307.5	16QAM	1	0	21.22	19.61	24	-4.39
				1	24	21.25	19.64	24	-4.36
				12	6	20.26	18.65	24	-5.35
				25	0	20.14	18.53	24	-5.47
	27710	2310	16QAM	1	0	21.18	19.57	24	-4.43
				1	24	21.23	19.62	24	-4.38
				12	6	20.18	18.57	24	-5.43
				25	0	20.25	18.64	24	-5.36
	27735	2312.5	16QAM	1	0	21.14	19.53	24	-4.47
				1	24	21.24	19.63	24	-4.37
				12	6	20.17	18.56	24	-5.44
				25	0	20.13	18.52	24	-5.48
5	27685	2307.5	64QAM	1	0	20.25	18.64	24	-5.36
				1	24	20.19	18.58	24	-5.42
				12	6	19.22	17.61	24	-6.39
				25	0	19.21	17.60	24	-6.4
	27710	2310	64QAM	1	0	20.17	18.56	24	-5.44
				1	24	20.14	18.53	24	-5.47
				12	6	19.23	17.62	24	-6.38
				25	0	19.19	17.58	24	-6.42
	27735	2312.5	64QAM	1	0	20.23	18.62	24	-5.38
				1	24	20.20	18.59	24	-5.41
				12	6	19.23	17.62	24	-6.38
				25	0	19.24	17.63	24	-6.37

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Antenna gain (dBi)		-1.61							
LTE Band 30_Uplink frequency band : 2305 to 2315 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm/5MHz)	EIRP Average (dBm/5MHz)	EIRP Limit (dBm/5MHz)	Margin (dB)
10	27710	2310	QPSK	1	0	22.29	20.68	24	-3.32
				1	49	22.22	20.61	24	-3.39
				25	12	21.31	19.70	24	-4.3
				50	0	21.32	19.71	24	-4.29
10	27710	2310	16QAM	1	0	21.13	19.52	24	-4.48
				1	49	21.23	19.62	24	-4.38
				25	12	20.22	18.61	24	-5.39
				50	0	20.19	18.58	24	-5.42
10	27710	2310	64QAM	1	0	20.16	18.55	24	-5.45
				1	49	20.25	18.64	24	-5.36
				25	12	19.19	17.58	24	-6.42
				50	0	19.16	17.55	24	-6.45

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Antenna gain (dBi)		-0.79							
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	22.92	22.13	33	-10.87
				1	24	22.92	22.13	33	-10.87
				12	6	21.83	21.04	33	-11.96
				25	0	21.80	21.01	33	-11.99
	38000	2595	QPSK	1	0	22.91	22.12	33	-10.88
				1	24	22.79	22.00	33	-11
				12	6	21.90	21.11	33	-11.89
				25	0	21.86	21.07	33	-11.93
	38225	2617.5	QPSK	1	0	22.66	21.87	33	-11.13
				1	24	22.61	21.82	33	-11.18
				12	6	21.59	20.80	33	-12.2
				25	0	21.73	20.94	33	-12.06
5	37775	2572.5	16QAM	1	0	21.92	21.13	33	-11.87
				1	24	21.83	21.04	33	-11.96
				12	6	20.87	20.08	33	-12.92
				25	0	20.87	20.08	33	-12.92
	38000	2595	16QAM	1	0	21.85	21.06	33	-11.94
				1	24	21.83	21.04	33	-11.96
				12	6	20.86	20.07	33	-12.93
				25	0	20.87	20.08	33	-12.92
	38225	2617.5	16QAM	1	0	21.72	20.93	33	-12.07
				1	24	21.69	20.90	33	-12.1
				12	6	20.59	19.80	33	-13.2
				25	0	20.73	19.94	33	-13.06
5	37775	2572.5	64QAM	1	0	20.85	20.06	33	-12.94
				1	24	20.91	20.12	33	-12.88
				12	6	19.82	19.03	33	-13.97
				25	0	19.81	19.02	33	-13.98
	38000	2595	64QAM	1	0	20.91	20.12	33	-12.88
				1	24	20.86	20.07	33	-12.93
				12	6	19.83	19.04	33	-13.96
				25	0	19.83	19.04	33	-13.96
	38225	2617.5	64QAM	1	0	20.59	19.80	33	-13.2
				1	24	20.62	19.83	33	-13.17
				12	6	19.73	18.94	33	-14.06
				25	0	19.69	18.90	33	-14.1

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Antenna gain (dBi)		-0.79							
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	22.91	22.12	33	-10.88
				1	49	22.84	22.05	33	-10.95
				25	12	21.88	21.09	33	-11.91
				50	0	21.90	21.11	33	-11.89
	38000	2595	QPSK	1	0	22.86	22.07	33	-10.93
				1	49	22.85	22.06	33	-10.94
				25	12	21.86	21.07	33	-11.93
				50	0	21.83	21.04	33	-11.96
	38200	2615	QPSK	1	0	22.73	21.94	33	-11.06
				1	49	22.73	21.94	33	-11.06
				25	12	21.63	20.84	33	-12.16
				50	0	21.71	20.92	33	-12.08
10	37800	2575	16QAM	1	0	21.92	21.13	33	-11.87
				1	49	21.88	21.09	33	-11.91
				25	12	20.80	20.01	33	-12.99
				50	0	20.80	20.01	33	-12.99
	38000	2595	16QAM	1	0	21.87	21.08	33	-11.92
				1	49	21.83	21.04	33	-11.96
				25	12	20.87	20.08	33	-12.92
				50	0	20.86	20.07	33	-12.93
	38200	2615	16QAM	1	0	21.72	20.93	33	-12.07
				1	49	21.61	20.82	33	-12.18
				25	12	20.67	19.88	33	-13.12
				50	0	20.70	19.91	33	-13.09
10	37800	2575	64QAM	1	0	20.82	20.03	33	-12.97
				1	49	20.82	20.03	33	-12.97
				25	12	19.79	19.00	33	-14
				50	0	19.87	19.08	33	-13.92
	38000	2595	64QAM	1	0	20.88	20.09	33	-12.91
				1	49	20.87	20.08	33	-12.92
				25	12	19.85	19.06	33	-13.94
				50	0	19.80	19.01	33	-13.99
	38200	2615	64QAM	1	0	20.65	19.86	33	-13.14
				1	49	20.67	19.88	33	-13.12
				25	12	19.59	18.80	33	-14.2
				50	0	19.61	18.82	33	-14.18

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Antenna gain (dBi)		-0.79							
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	22.91	22.12	33	-10.88
				1	74	22.93	22.14	33	-10.86
				36	19	21.82	21.03	33	-11.97
				75	0	21.81	21.02	33	-11.98
	38000	2595	QPSK	1	0	22.85	22.06	33	-10.94
				1	74	22.83	22.04	33	-10.96
				36	19	21.81	21.02	33	-11.98
				75	0	21.83	21.04	33	-11.96
	38175	2612.5	QPSK	1	0	22.59	21.80	33	-11.2
				1	74	22.65	21.86	33	-11.14
				36	19	21.59	20.80	33	-12.2
				75	0	21.72	20.93	33	-12.07
15	37825	2577.5	16QAM	1	0	21.79	21.00	33	-12
				1	74	21.87	21.08	33	-11.92
				36	19	20.93	20.14	33	-12.86
				75	0	20.92	20.13	33	-12.87
	38000	2595	16QAM	1	0	21.80	21.01	33	-11.99
				1	74	21.83	21.04	33	-11.96
				36	19	20.88	20.09	33	-12.91
				75	0	20.85	20.06	33	-12.94
	38175	2612.5	16QAM	1	0	21.65	20.86	33	-12.14
				1	74	21.72	20.93	33	-12.07
				36	19	20.69	19.90	33	-13.1
				75	0	20.72	19.93	33	-13.07
15	37825	2577.5	64QAM	1	0	20.83	20.04	33	-12.96
				1	74	20.92	20.13	33	-12.87
				36	19	19.87	19.08	33	-13.92
				75	0	19.80	19.01	33	-13.99
	38000	2595	64QAM	1	0	20.82	20.03	33	-12.97
				1	74	20.79	20.00	33	-13
				36	19	19.79	19.00	33	-14
				75	0	19.89	19.10	33	-13.9
	38175	2612.5	64QAM	1	0	20.73	19.94	33	-13.06
				1	74	20.62	19.83	33	-13.17
				36	19	19.67	18.88	33	-14.12
				75	0	19.60	18.81	33	-14.19

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Antenna gain (dBi)		-0.79							
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	22.95	22.16	33	-10.84
				1	99	22.94	22.15	33	-10.85
				50	25	22.13	21.34	33	-11.66
				100	0	22.11	21.32	33	-11.68
	38000	2595	QPSK	1	0	22.94	22.15	33	-10.85
				1	99	22.42	21.63	33	-11.37
				50	25	22.04	21.25	33	-11.75
				100	0	22.02	21.23	33	-11.77
	38150	2610	QPSK	1	0	22.75	21.96	33	-11.04
				1	99	22.73	21.94	33	-11.06
				50	25	22.09	21.30	33	-11.7
				100	0	22.01	21.22	33	-11.78
20	37850	2580	16QAM	1	0	21.81	21.02	33	-11.98
				1	99	21.88	21.09	33	-11.91
				50	25	20.81	20.02	33	-12.98
				100	0	20.86	20.07	33	-12.93
	38000	2595	16QAM	1	0	21.92	21.13	33	-11.87
				1	99	21.87	21.08	33	-11.92
				50	25	20.90	20.11	33	-12.89
				100	0	20.79	20.00	33	-13
	38150	2610	16QAM	1	0	21.70	20.91	33	-12.09
				1	99	21.64	20.85	33	-12.15
				50	25	20.68	19.89	33	-13.11
				100	0	20.60	19.81	33	-13.19
20	37850	2580	64QAM	1	0	20.80	20.01	33	-12.99
				1	99	20.92	20.13	33	-12.87
				50	25	19.89	19.10	33	-13.9
				100	0	19.92	19.13	33	-13.87
	38000	2595	64QAM	1	0	20.87	20.08	33	-12.92
				1	99	20.79	20.00	33	-13
				50	25	19.89	19.10	33	-13.9
				100	0	19.91	19.12	33	-13.88
	38150	2610	64QAM	1	0	20.73	19.94	33	-13.06
				1	99	20.72	19.93	33	-13.07
				50	25	19.62	18.83	33	-14.17
				100	0	19.59	18.80	33	-14.2

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Antenna gain (dBi)		0.03							
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	22.23	22.26	33	-10.74
				1	24	22.29	22.32	33	-10.68
				12	6	21.23	21.26	33	-11.74
				25	0	21.24	21.27	33	-11.73
	40620	2593	QPSK	1	0	22.82	22.85	33	-10.15
				1	24	22.76	22.79	33	-10.21
				12	6	21.78	21.81	33	-11.19
				25	0	21.76	21.79	33	-11.21
	41565	2687.5	QPSK	1	0	22.12	22.15	33	-10.85
				1	24	22.13	22.16	33	-10.84
				12	6	21.06	21.09	33	-11.91
				25	0	21.07	21.10	33	-11.9
5	39675	2498.5	16QAM	1	0	21.21	21.24	33	-11.76
				1	24	21.15	21.18	33	-11.82
				12	6	20.25	20.28	33	-12.72
				25	0	20.24	20.27	33	-12.73
	40620	2593	16QAM	1	0	21.77	21.80	33	-11.2
				1	24	21.84	21.87	33	-11.13
				12	6	20.73	20.76	33	-12.24
				25	0	20.73	20.76	33	-12.24
	41565	2687.5	16QAM	1	0	21.15	21.18	33	-11.82
				1	24	21.14	21.17	33	-11.83
				12	6	20.10	20.13	33	-12.87
				25	0	20.14	20.17	33	-12.83
5	39675	2498.5	64QAM	1	0	20.25	20.28	33	-12.72
				1	24	20.21	20.24	33	-12.76
				12	6	19.24	19.27	33	-13.73
				25	0	19.15	19.18	33	-13.82
	40620	2593	64QAM	1	0	20.77	20.80	33	-12.2
				1	24	20.79	20.82	33	-12.18
				12	6	19.84	19.87	33	-13.13
				25	0	19.80	19.83	33	-13.17
	41565	2687.5	64QAM	1	0	20.14	20.17	33	-12.83
				1	24	20.08	20.11	33	-12.89
				12	6	19.11	19.14	33	-13.86
				25	0	19.06	19.09	33	-13.91

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Antenna gain (dBi)		0.03							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
10	39700	2501	QPSK	1	0	22.15	22.18	33	-10.82
				1	49	22.22	22.25	33	-10.75
				25	12	21.21	21.24	33	-11.76
				50	0	21.27	21.30	33	-11.7
	40620	2593	QPSK	1	0	22.82	22.85	33	-10.15
				1	49	22.81	22.84	33	-10.16
				25	12	21.80	21.83	33	-11.17
				50	0	21.85	21.88	33	-11.12
	41540	2685	QPSK	1	0	22.05	22.08	33	-10.92
				1	49	22.18	22.21	33	-10.79
				25	12	21.10	21.13	33	-11.87
				50	0	21.09	21.12	33	-11.88
10	39700	2501	16QAM	1	0	21.23	21.26	33	-11.74
				1	49	21.23	21.26	33	-11.74
				25	12	20.24	20.27	33	-12.73
				50	0	20.15	20.18	33	-12.82
	40620	2593	16QAM	1	0	21.74	21.77	33	-11.23
				1	49	21.76	21.79	33	-11.21
				25	12	20.73	20.76	33	-12.24
				50	0	20.85	20.88	33	-12.12
	41540	2685	16QAM	1	0	21.10	21.13	33	-11.87
				1	49	21.06	21.09	33	-11.91
				25	12	20.18	20.21	33	-12.79
				50	0	20.18	20.21	33	-12.79
10	39700	2501	64QAM	1	0	20.18	20.21	33	-12.79
				1	49	20.15	20.18	33	-12.82
				25	12	19.18	19.21	33	-13.79
				50	0	19.27	19.30	33	-13.7
	40620	2593	64QAM	1	0	20.80	20.83	33	-12.17
				1	49	20.78	20.81	33	-12.19
				25	12	19.81	19.84	33	-13.16
				50	0	19.73	19.76	33	-13.24
	41540	2685	64QAM	1	0	20.18	20.21	33	-12.79
				1	49	20.18	20.21	33	-12.79
				25	12	19.09	19.12	33	-13.88
				50	0	19.18	19.21	33	-13.79

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Antenna gain (dBi)		0.03							
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	22.16	22.19	33	-10.81
				1	74	22.24	22.27	33	-10.73
				36	18	21.16	21.19	33	-11.81
				75	0	21.26	21.29	33	-11.71
	40620	2593	QPSK	1	0	22.84	22.87	33	-10.13
				1	74	22.76	22.79	33	-10.21
				36	18	21.72	21.75	33	-11.25
				75	0	21.73	21.76	33	-11.24
	41515	2682.5	QPSK	1	0	22.06	22.09	33	-10.91
				1	74	22.18	22.21	33	-10.79
				36	18	21.14	21.17	33	-11.83
				75	0	21.10	21.13	33	-11.87
15	39725	2503.5	16QAM	1	0	21.20	21.23	33	-11.77
				1	74	21.21	21.24	33	-11.76
				36	18	20.19	20.22	33	-12.78
				75	0	20.16	20.19	33	-12.81
	40620	2593	16QAM	1	0	21.78	21.81	33	-11.19
				1	74	21.74	21.77	33	-11.23
				36	18	20.79	20.82	33	-12.18
				75	0	20.75	20.78	33	-12.22
	41515	2682.5	16QAM	1	0	21.19	21.22	33	-11.78
				1	74	21.19	21.22	33	-11.78
				36	18	20.11	20.14	33	-12.86
				75	0	20.19	20.22	33	-12.78
15	39725	2503.5	64QAM	1	0	20.25	20.28	33	-12.72
				1	74	20.26	20.29	33	-12.71
				36	18	19.26	19.29	33	-13.71
				75	0	19.25	19.28	33	-13.72
	40620	2593	64QAM	1	0	20.85	20.88	33	-12.12
				1	74	20.74	20.77	33	-12.23
				36	18	19.77	19.80	33	-13.2
				75	0	19.82	19.85	33	-13.15
	41515	2682.5	64QAM	1	0	20.06	20.09	33	-12.91
				1	74	20.07	20.10	33	-12.9
				36	18	19.08	19.11	33	-13.89
				75	0	19.12	19.15	33	-13.85

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Antenna gain (dBi)		0.03							
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	22.31	22.34	33	-10.66
				1	99	22.59	22.62	33	-10.38
				50	25	21.51	21.54	33	-11.46
				100	0	21.58	21.61	33	-11.39
	40620	2593	QPSK	1	0	22.88	22.91	33	-10.09
				1	99	22.67	22.70	33	-10.3
				50	25	21.79	21.82	33	-11.18
				100	0	21.87	21.90	33	-11.1
	41490	2680	QPSK	1	0	22.21	22.24	33	-10.76
				1	99	22.31	22.34	33	-10.66
				50	25	21.14	21.17	33	-11.83
				100	0	21.38	21.41	33	-11.59
20	39750	2506	16QAM	1	0	21.29	21.32	33	-11.68
				1	99	21.28	21.31	33	-11.69
				50	25	20.26	20.29	33	-12.71
				100	0	20.24	20.27	33	-12.73
	40620	2593	16QAM	1	0	21.78	21.81	33	-11.19
				1	99	21.82	21.85	33	-11.15
				50	25	20.78	20.81	33	-12.19
				100	0	20.85	20.88	33	-12.12
	41490	2680	16QAM	1	0	21.15	21.18	33	-11.82
				1	99	21.18	21.21	33	-11.79
				50	25	20.13	20.16	33	-12.84
				100	0	20.09	20.12	33	-12.88
20	39750	2506	64QAM	1	0	20.28	20.31	33	-12.69
				1	99	20.29	20.32	33	-12.68
				50	25	19.23	19.26	33	-13.74
				100	0	19.18	19.21	33	-13.79
	40620	2593	64QAM	1	0	20.73	20.76	33	-12.24
				1	99	20.81	20.84	33	-12.16
				50	25	19.82	19.85	33	-13.15
				100	0	19.79	19.82	33	-13.18
	41490	2680	64QAM	1	0	20.18	20.21	33	-12.79
				1	99	20.09	20.12	33	-12.88
				50	25	19.05	19.08	33	-13.92
				100	0	19.17	19.20	33	-13.8

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Antenna gain (dBi)		-0.09							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
1.4	131979	1710.7	QPSK	1	0	22.14	22.05	30	-7.95
				1	5	22.13	22.04	30	-7.96
				3	2	22.04	21.95	30	-8.05
				6	0	21.03	20.94	30	-9.06
	132322	1745	QPSK	1	0	22.21	22.12	30	-7.88
				1	5	22.18	22.09	30	-7.91
				3	2	22.23	22.14	30	-7.86
				6	0	21.21	21.12	30	-8.88
	132665	1779.3	QPSK	1	0	22.00	21.91	30	-8.09
				1	5	22.03	21.94	30	-8.06
				3	2	22.11	22.02	30	-7.98
				6	0	21.01	20.92	30	-9.08
1.4	131979	1710.7	16QAM	1	0	21.02	20.93	30	-9.07
				1	5	21.14	21.05	30	-8.95
				3	2	21.11	21.02	30	-8.98
				6	0	20.13	20.04	30	-9.96
	132322	1745	16QAM	1	0	21.17	21.08	30	-8.92
				1	5	21.14	21.05	30	-8.95
				3	2	21.22	21.13	30	-8.87
				6	0	20.11	20.02	30	-9.98
	132665	1779.3	16QAM	1	0	21.10	21.01	30	-8.99
				1	5	21.03	20.94	30	-9.06
				3	2	21.06	20.97	30	-9.03
				6	0	20.09	20.00	30	-10
1.4	131979	1710.7	64QAM	1	0	20.08	19.99	30	-10.01
				1	5	20.12	20.03	30	-9.97
				3	2	20.15	20.06	30	-9.94
				6	0	19.12	19.03	30	-10.97
	132322	1745	64QAM	1	0	20.09	20.00	30	-10
				1	5	20.12	20.03	30	-9.97
				3	2	20.20	20.11	30	-9.89
				6	0	19.10	19.01	30	-10.99
	132665	1779.3	64QAM	1	0	20.08	19.99	30	-10.01
				1	5	20.07	19.98	30	-10.02
				3	2	20.03	19.94	30	-10.06
				6	0	19.02	18.93	30	-11.07

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Antenna gain (dBi)		-0.09							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
3	131987	1711.5	QPSK	1	0	22.04	21.95	30	-8.05
				1	14	22.01	21.92	30	-8.08
				8	4	21.09	21.00	30	-9
				15	0	21.05	20.96	30	-9.04
	132322	1745	QPSK	1	0	22.21	22.12	30	-7.88
				1	14	22.17	22.08	30	-7.92
				8	4	21.13	21.04	30	-8.96
				15	0	21.19	21.10	30	-8.9
	132657	1778.5	QPSK	1	0	22.02	21.93	30	-8.07
				1	14	22.03	21.94	30	-8.06
				8	4	21.11	21.02	30	-8.98
				15	0	21.00	20.91	30	-9.09
3	131987	1711.5	16QAM	1	0	21.03	20.94	30	-9.06
				1	14	21.09	21.00	30	-9
				8	4	20.07	19.98	30	-10.02
				15	0	20.14	20.05	30	-9.95
	132322	1745	16QAM	1	0	21.20	21.11	30	-8.89
				1	14	21.16	21.07	30	-8.93
				8	4	20.09	20.00	30	-10
				15	0	20.22	20.13	30	-9.87
	132657	1778.5	16QAM	1	0	21.09	21.00	30	-9
				1	14	21.14	21.05	30	-8.95
				8	4	20.00	19.91	30	-10.09
				15	0	20.05	19.96	30	-10.04
3	131987	1711.5	64QAM	1	0	20.04	19.95	30	-10.05
				1	14	20.01	19.92	30	-10.08
				8	4	19.04	18.95	30	-11.05
				15	0	19.12	19.03	30	-10.97
	132322	1745	64QAM	1	0	20.14	20.05	30	-9.95
				1	14	20.13	20.04	30	-9.96
				8	4	19.16	19.07	30	-10.93
				15	0	19.11	19.02	30	-10.98
	132657	1778.5	64QAM	1	0	20.13	20.04	30	-9.96
				1	14	20.13	20.04	30	-9.96
				8	4	19.07	18.98	30	-11.02
				15	0	19.08	18.99	30	-11.01

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Antenna gain (dBi)		-0.09							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	131997	1712.5	QPSK	1	0	22.05	21.96	30	-8.04
				1	24	22.13	22.04	30	-7.96
				12	6	21.04	20.95	30	-9.05
				25	0	21.10	21.01	30	-8.99
	132322	1745	QPSK	1	0	22.12	22.03	30	-7.97
				1	24	22.14	22.05	30	-7.95
				12	6	21.10	21.01	30	-8.99
				25	0	21.17	21.08	30	-8.92
	132647	1777.5	QPSK	1	0	22.01	21.92	30	-8.08
				1	24	22.10	22.01	30	-7.99
				12	6	21.08	20.99	30	-9.01
				25	0	21.09	21.00	30	-9
5	131997	1712.5	16QAM	1	0	21.07	20.98	30	-9.02
				1	24	21.04	20.95	30	-9.05
				12	6	20.15	20.06	30	-9.94
				25	0	20.08	19.99	30	-10.01
	132322	1745	16QAM	1	0	21.17	21.08	30	-8.92
				1	24	21.23	21.14	30	-8.86
				12	6	20.21	20.12	30	-9.88
				25	0	20.17	20.08	30	-9.92
	132647	1777.5	16QAM	1	0	21.02	20.93	30	-9.07
				1	24	21.03	20.94	30	-9.06
				12	6	20.05	19.96	30	-10.04
				25	0	20.13	20.04	30	-9.96
5	131997	1712.5	64QAM	1	0	20.12	20.03	30	-9.97
				1	24	20.14	20.05	30	-9.95
				12	6	19.02	18.93	30	-11.07
				25	0	19.08	18.99	30	-11.01
	132322	1745	64QAM	1	0	20.14	20.05	30	-9.95
				1	24	20.18	20.09	30	-9.91
				12	6	19.09	19.00	30	-11
				25	0	19.20	19.11	30	-10.89
	132647	1777.5	64QAM	1	0	20.12	20.03	30	-9.97
				1	24	20.06	19.97	30	-10.03
				12	6	19.02	18.93	30	-11.07
				25	0	19.07	18.98	30	-11.02

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Antenna gain (dBi)		-0.09							
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	22.03	21.94	30	-8.06
				1	49	22.09	22.00	30	-8
				25	12	21.05	20.96	30	-9.04
				50	0	21.14	21.05	30	-8.95
	132322	1745	QPSK	1	0	22.09	22.00	30	-8
				1	49	22.09	22.00	30	-8
				25	12	21.20	21.11	30	-8.89
				50	0	21.13	21.04	30	-8.96
	132622	1775	QPSK	1	0	22.10	22.01	30	-7.99
				1	49	22.13	22.04	30	-7.96
				25	12	21.04	20.95	30	-9.05
				50	0	21.11	21.02	30	-8.98
10	132022	1715	16QAM	1	0	21.07	20.98	30	-9.02
				1	49	21.14	21.05	30	-8.95
				25	12	20.10	20.01	30	-9.99
				50	0	20.07	19.98	30	-10.02
	132322	1745	16QAM	1	0	21.16	21.07	30	-8.93
				1	49	21.17	21.08	30	-8.92
				25	12	20.11	20.02	30	-9.98
				50	0	20.12	20.03	30	-9.97
	132622	1775	16QAM	1	0	21.01	20.92	30	-9.08
				1	49	21.09	21.00	30	-9
				25	12	20.09	20.00	30	-10
				50	0	20.04	19.95	30	-10.05
10	132022	1715	64QAM	1	0	20.04	19.95	30	-10.05
				1	49	20.01	19.92	30	-10.08
				25	12	19.13	19.04	30	-10.96
				50	0	19.13	19.04	30	-10.96
	132322	1745	64QAM	1	0	20.13	20.04	30	-9.96
				1	49	20.16	20.07	30	-9.93
				25	12	19.09	19.00	30	-11
				50	0	19.20	19.11	30	-10.89
	132622	1775	64QAM	1	0	20.14	20.05	30	-9.95
				1	49	20.07	19.98	30	-10.02
				25	12	19.06	18.97	30	-11.03
				50	0	19.06	18.97	30	-11.03

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Antenna gain (dBi)		-0.09							
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	22.11	22.02	30	-7.98
				1	74	22.01	21.92	30	-8.08
				36	18	21.03	20.94	30	-9.06
				75	0	21.05	20.96	30	-9.04
	132322	1745	QPSK	1	0	22.10	22.01	30	-7.99
				1	74	22.19	22.10	30	-7.9
				36	18	21.22	21.13	30	-8.87
				75	0	21.23	21.14	30	-8.86
	132597	1772.5	QPSK	1	0	22.01	21.92	30	-8.08
				1	74	22.02	21.93	30	-8.07
				36	18	21.03	20.94	30	-9.06
				75	0	21.10	21.01	30	-8.99
15	132047	1717.5	16QAM	1	0	21.08	20.99	30	-9.01
				1	74	21.14	21.05	30	-8.95
				36	18	20.09	20.00	30	-10
				75	0	20.11	20.02	30	-9.98
	132322	1745	16QAM	1	0	21.14	21.05	30	-8.95
				1	74	21.21	21.12	30	-8.88
				36	18	20.09	20.00	30	-10
				75	0	20.16	20.07	30	-9.93
	132597	1772.5	16QAM	1	0	21.09	21.00	30	-9
				1	74	21.09	21.00	30	-9
				36	18	20.14	20.05	30	-9.95
				75	0	20.12	20.03	30	-9.97
15	132047	1717.5	64QAM	1	0	20.11	20.02	30	-9.98
				1	74	20.12	20.03	30	-9.97
				36	18	19.02	18.93	30	-11.07
				75	0	19.01	18.92	30	-11.08
	132322	1745	64QAM	1	0	20.19	20.10	30	-9.9
				1	74	20.17	20.08	30	-9.92
				36	18	19.19	19.10	30	-10.9
				75	0	19.21	19.12	30	-10.88
	132597	1772.5	64QAM	1	0	20.09	20.00	30	-10
				1	74	20.12	20.03	30	-9.97
				36	18	19.08	18.99	30	-11.01
				75	0	19.03	18.94	30	-11.06

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Antenna gain (dBi)		-0.09							
LTE Band 66_Uplink frequency band : 1710 to 1780 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
20	132072	1720	QPSK	1	0	22.17	22.08	30	-7.92
				1	99	22.16	22.07	30	-7.93
				50	25	21.24	21.15	30	-8.85
				100	0	21.23	21.14	30	-8.86
	132322	1745	QPSK	1	0	22.25	22.16	30	-7.84
				1	99	22.15	22.06	30	-7.94
				50	25	21.26	21.17	30	-8.83
				100	0	21.24	21.15	30	-8.85
	132572	1770	QPSK	1	0	22.16	22.07	30	-7.93
				1	99	22.02	21.93	30	-8.07
				50	25	21.23	21.14	30	-8.86
				100	0	21.15	21.06	30	-8.94
20	132072	1720	16QAM	1	0	21.01	20.92	30	-9.08
				1	99	21.14	21.05	30	-8.95
				50	25	20.09	20.00	30	-10
				100	0	20.14	20.05	30	-9.95
	132322	1745	16QAM	1	0	21.13	21.04	30	-8.96
				1	99	21.11	21.02	30	-8.98
				50	25	20.22	20.13	30	-9.87
				100	0	20.15	20.06	30	-9.94
	132572	1770	16QAM	1	0	21.12	21.03	30	-8.97
				1	99	21.11	21.02	30	-8.98
				50	25	20.11	20.02	30	-9.98
				100	0	20.09	20.00	30	-10
20	132072	1720	64QAM	1	0	20.09	20.00	30	-10
				1	99	20.08	19.99	30	-10.01
				50	25	19.10	19.01	30	-10.99
				100	0	19.06	18.97	30	-11.03
	132322	1745	64QAM	1	0	20.19	20.10	30	-9.9
				1	99	20.13	20.04	30	-9.96
				50	25	19.12	19.03	30	-10.97
				100	0	19.10	19.01	30	-10.99
	132572	1770	64QAM	1	0	20.09	20.00	30	-10
				1	99	20.04	19.95	30	-10.05
				50	25	19.07	18.98	30	-11.02
				100	0	19.04	18.95	30	-11.05

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Antenna gain (dBi)		-2.8							
LTE Band 71_Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	133147	665.5	QPSK	1	0	22.80	22.80	34.77	-11.97
				1	24	22.77	22.77	34.77	-12
				12	6	21.84	21.84	34.77	-12.93
				25	0	21.87	21.87	34.77	-12.9
	133297	680.5	QPSK	1	0	22.72	22.72	34.77	-12.05
				1	24	22.66	22.66	34.77	-12.11
				12	6	21.71	21.71	34.77	-13.06
				25	0	21.71	21.71	34.77	-13.06
	133447	695.5	QPSK	1	0	22.66	22.66	34.77	-12.11
				1	24	22.69	22.69	34.77	-12.08
				12	6	21.64	21.64	34.77	-13.13
				25	0	21.57	21.57	34.77	-13.2
5	133147	665.5	16QAM	1	0	21.82	21.82	34.77	-12.95
				1	24	21.86	21.86	34.77	-12.91
				12	6	20.81	20.81	34.77	-13.96
				25	0	20.88	20.88	34.77	-13.89
	133297	680.5	16QAM	1	0	21.67	21.67	34.77	-13.1
				1	24	21.73	21.73	34.77	-13.04
				12	6	20.73	20.73	34.77	-14.04
				25	0	20.72	20.72	34.77	-14.05
	133447	695.5	16QAM	1	0	21.65	21.65	34.77	-13.12
				1	24	21.70	21.70	34.77	-13.07
				12	6	20.68	20.68	34.77	-14.09
				25	0	20.63	20.63	34.77	-14.14
5	133147	665.5	64QAM	1	0	20.83	20.83	34.77	-13.94
				1	24	20.77	20.77	34.77	-14
				12	6	19.89	19.89	34.77	-14.88
				25	0	19.87	19.87	34.77	-14.9
	133297	680.5	64QAM	1	0	20.63	20.63	34.77	-14.14
				1	24	20.74	20.74	34.77	-14.03
				12	6	19.66	19.66	34.77	-15.11
				25	0	19.75	19.75	34.77	-15.02
	133447	695.5	64QAM	1	0	20.68	20.68	34.77	-14.09
				1	24	20.66	20.66	34.77	-14.11
				12	6	19.66	19.66	34.77	-15.11
				25	0	19.60	19.60	34.77	-15.17

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Antenna gain (dBi)		-2.8							
LTE Band 71_Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	133172	668	QPSK	1	0	22.79	22.79	34.77	-11.98
				1	49	22.83	22.83	34.77	-11.94
				25	12	21.82	21.82	34.77	-12.95
				50	0	21.87	21.87	34.77	-12.9
	133297	680.5	QPSK	1	0	22.67	22.67	34.77	-12.1
				1	49	22.61	22.61	34.77	-12.16
				25	12	21.73	21.73	34.77	-13.04
				50	0	21.70	21.70	34.77	-13.07
	133422	693	QPSK	1	0	22.63	22.63	34.77	-12.14
				1	49	22.68	22.68	34.77	-12.09
				25	12	21.65	21.65	34.77	-13.12
				50	0	21.57	21.57	34.77	-13.2
10	133172	668	16QAM	1	0	21.88	21.88	34.77	-12.89
				1	49	21.88	21.88	34.77	-12.89
				25	12	20.75	20.75	34.77	-14.02
				50	0	20.86	20.86	34.77	-13.91
	133297	680.5	16QAM	1	0	21.69	21.69	34.77	-13.08
				1	49	21.75	21.75	34.77	-13.02
				25	12	20.62	20.62	34.77	-14.15
				50	0	20.68	20.68	34.77	-14.09
	133422	693	16QAM	1	0	21.66	21.66	34.77	-13.11
				1	49	21.63	21.63	34.77	-13.14
				25	12	20.70	20.70	34.77	-14.07
				50	0	20.68	20.68	34.77	-14.09
10	133172	668	64QAM	1	0	20.81	20.81	34.77	-13.96
				1	49	20.85	20.85	34.77	-13.92
				25	12	19.86	19.86	34.77	-14.91
				50	0	19.81	19.81	34.77	-14.96
	133297	680.5	64QAM	1	0	20.71	20.71	34.77	-14.06
				1	49	20.73	20.73	34.77	-14.04
				25	12	19.72	19.72	34.77	-15.05
				50	0	19.68	19.68	34.77	-15.09
	133422	693	64QAM	1	0	20.60	20.60	34.77	-14.17
				1	49	20.66	20.66	34.77	-14.11
				25	12	19.59	19.59	34.77	-15.18
				50	0	19.61	19.61	34.77	-15.16

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Antenna gain (dBi)		-2.8							
LTE Band 71_Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
15	133197	670.5	QPSK	1	0	22.85	22.85	34.77	-11.92
				1	74	22.83	22.83	34.77	-11.94
				36	18	21.89	21.89	34.77	-12.88
				75	0	21.84	21.84	34.77	-12.93
	133297	680.5	QPSK	1	0	22.75	22.75	34.77	-12.02
				1	74	22.70	22.70	34.77	-12.07
				36	18	21.74	21.74	34.77	-13.03
				75	0	21.68	21.68	34.77	-13.09
	133397	690.5	QPSK	1	0	22.70	22.70	34.77	-12.07
				1	74	22.66	22.66	34.77	-12.11
				36	18	21.63	21.63	34.77	-13.14
				75	0	21.71	21.71	34.77	-13.06
15	133197	670.5	16QAM	1	0	21.76	21.76	34.77	-13.01
				1	74	21.89	21.89	34.77	-12.88
				36	18	20.77	20.77	34.77	-14
				75	0	20.80	20.80	34.77	-13.97
	133297	680.5	16QAM	1	0	21.70	21.70	34.77	-13.07
				1	74	21.72	21.72	34.77	-13.05
				36	18	20.72	20.72	34.77	-14.05
				75	0	20.67	20.67	34.77	-14.1
	133397	690.5	16QAM	1	0	21.64	21.64	34.77	-13.13
				1	74	21.66	21.66	34.77	-13.11
				36	18	20.57	20.57	34.77	-14.2
				75	0	20.70	20.70	34.77	-14.07
15	133197	670.5	64QAM	1	0	20.79	20.79	34.77	-13.98
				1	74	20.83	20.83	34.77	-13.94
				36	18	19.85	19.85	34.77	-14.92
				75	0	19.89	19.89	34.77	-14.88
	133297	680.5	64QAM	1	0	20.69	20.69	34.77	-14.08
				1	74	20.69	20.69	34.77	-14.08
				36	18	19.62	19.62	34.77	-15.15
				75	0	19.67	19.67	34.77	-15.1
	133397	690.5	64QAM	1	0	20.64	20.64	34.77	-14.13
				1	74	20.57	20.57	34.77	-14.2
				36	18	19.62	19.62	34.77	-15.15
				75	0	19.57	19.57	34.77	-15.2

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Antenna gain (dBi)		-2.8							
LTE Band 71_Uplink frequency band : 663 to 698 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	ERP Limit (dBm)	Margin (dB)
20	133222	673	QPSK	1	0	22.91	22.91	34.77	-11.86
				1	99	22.90	22.90	34.77	-11.87
				50	25	21.77	21.77	34.77	-13
				100	0	21.76	21.76	34.77	-13.01
	133297	680.5	QPSK	1	0	22.77	22.77	34.77	-12
				1	99	22.76	22.76	34.77	-12.01
				50	25	21.71	21.71	34.77	-13.06
				100	0	21.63	21.63	34.77	-13.14
	133372	688	QPSK	1	0	22.73	22.73	34.77	-12.04
				1	99	22.71	22.71	34.77	-12.06
				50	25	21.69	21.69	34.77	-13.08
				100	0	21.69	21.69	34.77	-13.08
20	133222	673	16QAM	1	0	21.86	21.86	34.77	-12.91
				1	99	21.79	21.79	34.77	-12.98
				50	25	20.75	20.75	34.77	-14.02
				100	0	20.79	20.79	34.77	-13.98
	133297	680.5	16QAM	1	0	21.68	21.68	34.77	-13.09
				1	99	21.64	21.64	34.77	-13.13
				50	25	20.73	20.73	34.77	-14.04
				100	0	20.71	20.71	34.77	-14.06
	133372	688	16QAM	1	0	21.71	21.71	34.77	-13.06
				1	99	21.68	21.68	34.77	-13.09
				50	25	20.67	20.67	34.77	-14.1
				100	0	20.57	20.57	34.77	-14.2
20	133222	673	64QAM	1	0	20.81	20.81	34.77	-13.96
				1	99	20.82	20.82	34.77	-13.95
				50	25	19.88	19.88	34.77	-14.89
				100	0	19.83	19.83	34.77	-14.94
	133297	680.5	64QAM	1	0	20.68	20.68	34.77	-14.09
				1	99	20.74	20.74	34.77	-14.03
				50	25	19.71	19.71	34.77	-15.06
				100	0	19.65	19.65	34.77	-15.12
	133372	688	64QAM	1	0	20.60	20.60	34.77	-14.17
				1	99	20.66	20.66	34.77	-14.11
				50	25	19.57	19.57	34.77	-15.2
				100	0	19.66	19.66	34.77	-15.11

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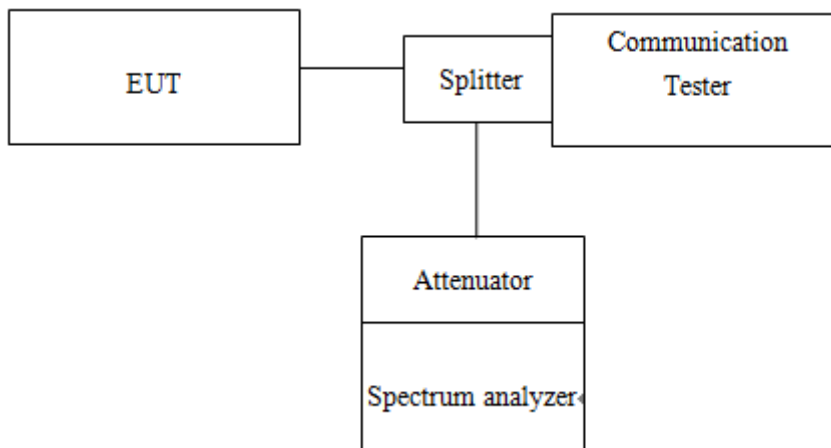
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## 7 OCCUPIED BANDWIDTH MEASUREMENT

### 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. Set 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 Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
PXA Spectrum Analyzer	Agilent	N9030A	MY53120760	04/21/2020	04/20/2021
DC Power Supply	Agilent	E3640A	MY40005907	10/29/2020	10/28/2021
Radio Communication Analyzer	Anritsu	MT8815A	6200429620	01/15/2021	01/14/2022
Radio Communication Analyzer	Anritsu	MT8821C	6261786084	01/20/2021	01/19/2022
Temperature Chamber	TERCHY	MHG-120LF	911009	05/20/2020	05/19/2021
Attenuator	Mini-Circuit	BW-S10W2+	2	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
Splitter	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-018	12/16/2020	12/15/2021

## 7.5 Measurement Result

Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		GSM 850	GPRS 850	EDGE 850	GSM 850	GPRS 850	EDGE 850
824.2	128	0.24631	0.24325	0.24831	0.3216	0.3190	0.3189
836.6	190	0.24307	0.24901	0.24822	0.3148	0.3212	0.3150
848.8	251	0.24438	0.24823	0.24536	0.3221	0.3192	0.3152
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		GSM 1900	GPRS 1900	EDGE 1900	GSM 1900	GPRS 1900	EDGE 1900
1850.2	512	0.24336	0.24448	0.24469	0.3068	0.3138	0.3123
1880.0	661	0.24573	0.24273	0.24596	0.3124	0.3145	0.3224
1909.8	810	0.24244	0.24370	0.24358	0.3184	0.3184	0.3200

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	4.14080	4.13930	4.13810	4.698	4.687	4.683
1880.00	9400	4.13480	4.13800	4.14270	4.698	4.683	4.669
1907.60	9538	4.14120	4.13890	4.14430	4.695	4.694	4.686

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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	4.14090	4.13680	4.14450	4.699	4.687	4.690
1732.60	1413	4.13570	4.14640	4.14300	4.701	4.688	4.686
1752.60	1513	4.14280	4.13250	4.13580	4.705	4.682	4.686
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	4.15710	4.15360	4.15490	4.718	4.699	4.694
836.60	4183	4.12950	4.13550	4.13200	4.688	4.677	4.699
846.60	4233	4.13320	4.12370	4.13420	4.695	4.689	4.685

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	1.0850	1.0847	1.0850	1.224	1.216	1.219
1880.0	18900	1.0856	1.0857	1.0833	1.219	1.218	1.220
1909.3	19193	1.0864	1.0836	1.0857	1.217	1.219	1.222

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	2.6863	2.6869	2.6880	2.937	2.969	2.942
1880.0	18900	2.6854	2.6882	2.6864	2.950	2.952	2.930
1908.5	19185	2.6873	2.6869	2.6908	2.940	2.956	2.940

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	4.4774	4.4815	4.4883	4.934	4.909	4.930
1880.0	18900	4.4766	4.4793	4.4843	4.923	4.911	4.920
1907.5	19175	4.4747	4.4826	4.4852	4.946	4.909	4.918

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	8.9442	8.9360	8.9517	9.686	9.648	9.742
1880.0	18900	8.9646	8.9315	8.9487	9.709	9.622	9.699
1905.0	19150	8.9505	8.9282	8.9526	9.709	9.640	9.717

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	13.436	13.428	13.418	14.45	14.47	14.50
1880.0	18900	13.437	13.424	13.412	14.52	14.51	14.61
1902.5	19125	13.408	13.403	13.412	14.42	14.58	14.46
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	1.0852	1.0852	1.0841	1.218	1.217	1.216
1732.5	20175	1.0846	1.0865	1.1001	1.183	1.211	1.221
1754.3	20393	1.0846	1.0857	1.0841	1.226	1.219	1.220

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	17.859	17.891	17.842	19.14	19.23	19.15
1880.0	18900	17.869	17.911	17.869	19.28	19.32	19.30
1900.0	19100	17.895	17.894	17.853	19.32	19.20	19.32
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	2.6812	2.6915	2.6900	2.953	2.962	2.948
1732.5	20175	2.6839	2.6906	2.6892	2.946	2.948	2.960
1753.5	20385	2.6835	2.6844	2.6879	2.946	2.961	2.946

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19975	4.4754	4.4777	4.4843	4.914	4.918	4.905
1732.5	20175	4.4756	4.4759	4.4858	4.920	4.947	4.917
1752.5	20375	4.4738	4.4771	4.4946	4.915	4.902	4.913

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	8.9455	8.9068	8.9373	9.647	9.725	9.660
1732.5	20175	8.9645	8.9379	8.9360	9.647	9.668	9.714
1750.0	20350	8.9548	8.9280	8.9336	9.642	9.629	9.728

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	13.414	13.406	13.400	14.49	14.48	14.55
1732.5	20175	13.411	13.435	13.411	14.49	14.50	14.48
1747.5	20325	13.601	13.421	13.381	14.06	14.50	14.51

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	17.860	17.880	17.843	19.29	19.18	19.18
1732.5	20175	17.892	18.076	17.884	19.27	18.57	19.41
1745.0	20300	17.909	17.893	17.869	18.54	19.28	19.25

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LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	1.0852	1.0843	1.0834	1.221	1.212	1.216
836.5	20525	1.0853	1.0859	1.0847	1.220	1.213	1.214
848.3	20643	1.0835	1.0846	1.0838	1.217	1.217	1.214

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	4.4830	4.4822	4.4957	4.916	4.968	4.917
836.5	20525	4.4751	4.4794	4.4867	4.928	4.906	4.933
846.5	20625	4.4753	4.4779	4.4825	4.923	4.924	4.922

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	4.4716	4.4790	4.4803	4.942	4.891	4.892
2535.0	21100	4.4801	4.4704	4.4894	5.260	4.922	4.927
2567.5	21425	4.4782	4.4723	4.4846	4.923	4.888	4.888

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	13.425	13.431	13.400	14.52	14.64	14.58
2535.0	21100	13.439	13.423	13.412	14.57	14.54	14.50
2562.5	21375	13.460	13.543	13.398	14.51	14.08	14.52

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	1.0844	1.0851	1.0831	1.216	1.223	1.218
707.5	23095	1.0852	1.0813	1.0847	1.223	1.214	1.224
715.3	23173	1.0832	1.0840	1.0843	1.213	1.211	1.220

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	4.4756	4.4815	4.4820	4.939	4.889	4.904
707.5	23095	4.4745	4.4800	4.4845	4.940	4.939	4.925
713.5	23155	4.4700	4.4798	4.4843	4.914	4.922	4.920

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	4.4770	4.4757	4.4797	4.948	4.929	4.925
710.0	23790	4.4796	4.4819	4.4882	4.920	4.904	4.870
713.5	23825	4.4794	4.4774	4.4847	4.936	4.920	4.925

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	2.6913	2.6849	2.6939	2.952	2.969	2.946
836.5	20525	2.6870	2.6846	2.6846	2.942	2.951	2.928
847.5	20635	2.6839	2.6900	2.6860	2.936	2.957	2.946

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	8.9555	8.9184	8.9423	9.719	9.622	9.692
836.5	20525	8.9428	8.9209	8.9322	9.628	9.667	9.690
844.0	20600	8.9649	8.9388	8.9424	9.661	9.696	9.643

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	8.9318	8.9273	8.9324	9.674	9.633	9.685
2535.0	21100	8.9526	8.9242	8.9551	9.700	9.679	9.701
2565.0	21400	8.9493	8.9310	8.9415	9.720	9.639	9.670

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	17.872	17.893	17.892	19.29	19.30	19.18
2535.0	21100	17.856	17.882	18.060	19.16	19.27	18.78
2560.0	21350	17.880	17.919	17.852	19.28	19.24	19.35

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	2.6855	2.6916	2.6943	2.941	2.970	2.973
707.5	23095	2.6878	2.6883	2.6912	2.946	2.975	2.943
714.5	23165	2.6861	2.6898	2.6853	2.941	2.950	2.936

LTE BAND 12 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
704.0	23060	8.9265	8.9206	8.9374	9.636	9.638	9.633
707.5	23095	8.9462	8.9175	8.9377	9.673	9.638	9.746
711.0	23130	8.9697	8.9292	8.9414	9.655	9.620	9.734

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	8.9428	8.9239	8.9336	9.656	9.679	9.729
710.0	23790	8.9413	8.9312	8.9391	9.678	9.748	9.674
711.0	23800	8.9439	8.9204	8.9363	9.638	9.572	9.661

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LTE BAND 25 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1850.7	26047	<b>1.0858</b>	1.0819	<b>1.0840</b>	1.221	1.213	1.219
1882.5	26365	1.0849	<b>1.0852</b>	1.0832	<b>1.222</b>	1.212	1.220
1914.3	26683	1.0825	1.0839	1.0836	1.212	<b>1.214</b>	<b>1.221</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	2.6870	2.6845	2.6909	2.946	2.955	2.940
1882.5	26365	<b>2.6880</b>	<b>2.6886</b>	<b>2.6917</b>	<b>2.962</b>	<b>2.976</b>	<b>2.947</b>
1913.5	26675	2.6822	2.6849	2.6866	2.953	2.972	2.943

LTE BAND 25 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	4.4743	<b>4.4796</b>	<b>4.4986</b>	4.920	4.919	4.932
1882.5	26365	<b>4.4802</b>	4.4710	4.4908	<b>4.927</b>	<b>4.931</b>	<b>4.945</b>
1912.5	26665	4.4786	4.4693	4.4831	4.908	4.893	4.908

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	8.9578	8.9309	8.9437	9.686	9.690	<b>9.702</b>
1882.5	26365	<b>8.9684</b>	<b>8.9316</b>	<b>8.9476</b>	9.667	<b>9.698</b>	9.682
1910.0	26640	8.9529	8.9255	8.9390	<b>9.688</b>	9.630	9.650

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	<b>13.448</b>	13.417	<b>13.419</b>	<b>14.57</b>	14.52	14.49
1882.5	26365	13.433	13.421	13.416	14.48	<b>14.61</b>	<b>14.50</b>
1907.5	26615	13.409	<b>13.430</b>	13.394	14.49	14.48	<b>14.50</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	17.861	17.868	17.838	19.22	<b>19.31</b>	19.36
1882.5	26365	17.865	17.878	<b>17.910</b>	19.20	19.24	<b>19.49</b>
1905.0	26590	<b>17.877</b>	<b>17.901</b>	17.896	<b>19.36</b>	19.23	19.34

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	<b>1.0855</b>	<b>1.0853</b>	<b>1.0841</b>	<b>1.220</b>	1.214	<b>1.218</b>
836.5	26915	1.0851	1.0845	1.0826	<b>1.220</b>	1.218	<b>1.218</b>
848.3	27033	1.0813	1.0842	1.0832	1.211	<b>1.219</b>	<b>1.218</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	<b>2.6898</b>	<b>2.6909</b>	2.6876	<b>2.944</b>	<b>2.961</b>	<b>2.952</b>
836.5	26915	2.6869	2.6842	2.6892	2.922	2.943	2.944
847.5	27025	2.6818	2.6886	<b>2.6917</b>	2.928	<b>2.961</b>	2.938

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	<b>4.4805</b>	<b>4.4869</b>	<b>4.4903</b>	<b>4.932</b>	4.902	<b>4.940</b>
836.5	26915	4.4784	4.4812	4.4840	4.912	<b>4.922</b>	4.938
846.5	27015	4.4746	4.4823	4.4860	4.913	<b>4.922</b>	4.917

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	8.9544	8.9447	8.9433	9.694	<b>9.652</b>	9.717
836.5	26915	8.9456	8.9122	8.9395	9.671	9.595	<b>9.754</b>
844.0	26990	<b>8.9709</b>	<b>8.9449</b>	<b>8.9516</b>	<b>9.731</b>	9.633	9.718

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>13.441</b>	<b>13.420</b>	<b>13.425</b>	14.47	<b>14.60</b>	<b>14.59</b>
836.5	26915	13.386	13.402	13.399	14.45	14.54	14.46
841.5	26965	13.405	13.415	13.412	<b>14.53</b>	14.56	14.55

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	1.0834	<b>1.0864</b>	1.0828	1.217	1.218	1.215
819.0	26740	<b>1.0849</b>	1.0850	<b>1.0837</b>	1.222	<b>1.221</b>	1.220
823.3	26783	1.0847	1.0838	1.0834	<b>1.228</b>	1.211	<b>1.221</b>

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	<b>2.6895</b>	<b>2.6916</b>	2.6814	2.935	<b>2.968</b>	<b>2.950</b>
819.0	26740	2.6843	2.6894	<b>2.6914</b>	2.943	2.967	2.945
822.5	26775	2.6844	2.6902	2.6899	<b>2.948</b>	2.967	2.936

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	4.4775	<b>4.4842</b>	<b>4.4895</b>	<b>4.950</b>	<b>4.909</b>	<b>4.920</b>
819.0	26740	4.4750	4.4736	4.4850	4.921	4.887	4.919
821.5	26765	<b>4.4780</b>	4.4775	4.4839	4.915	4.904	4.911

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>8.9654</b>	<b>8.9312</b>	<b>8.9470</b>	<b>9.682</b>	<b>9.680</b>	<b>9.730</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	<b>4.4757</b>	<b>4.4822</b>	<b>4.4946</b>	4.913	4.892	4.875
2310.0	27710	4.4711	4.4760	4.4882	4.916	4.895	4.888
2312.5	27735	4.4752	4.4781	4.4843	<b>4.952</b>	<b>4.921</b>	<b>4.907</b>

LTE BAND 30 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2310.0	27710	<b>8.9527</b>	<b>8.9231</b>	<b>8.9387</b>	<b>9.725</b>	<b>9.634</b>	<b>9.679</b>

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LTE BAND 38 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2572.5	37775	<b>4.4790</b>	4.4838	4.4800	4.897	4.888	<b>4.905</b>
2595.0	38000	4.4767	4.4769	4.4795	<b>4.912</b>	<b>4.900</b>	4.893
2617.5	38225	4.4787	<b>4.4839</b>	<b>4.4811</b>	4.884	4.888	4.897

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	8.9644	<b>8.9427</b>	<b>8.9571</b>	9.639	9.646	<b>9.750</b>
2595.0	38000	8.9550	8.9371	8.9521	9.619	<b>9.652</b>	9.676
2615.0	38200	<b>8.9712</b>	8.9417	8.9510	<b>9.704</b>	9.649	9.663

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>13.443</b>	13.415	13.394	14.44	<b>14.54</b>	14.40
2595.0	38000	13.421	<b>13.434</b>	<b>13.410</b>	<b>14.48</b>	14.48	<b>14.49</b>
2612.5	38175	13.421	13.421	13.407	14.42	14.41	14.46

LTE BAND 38 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2580.0	37850	17.865	17.900	<b>17.881</b>	19.18	19.20	19.35
2595.0	38000	17.857	17.859	17.861	<b>19.25</b>	19.14	<b>19.37</b>
2610.0	38150	<b>17.877</b>	<b>17.907</b>	17.838	19.14	<b>19.23</b>	19.34

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	4.4769	4.4792	<b>4.4847</b>	<b>4.940</b>	4.881	4.874
2593.0	40620	4.4741	4.4759	4.4747	4.931	4.890	<b>4.883</b>
2687.5	41565	<b>4.4812</b>	<b>4.4815</b>	4.4806	4.912	<b>4.891</b>	4.868

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	8.9416	8.9397	8.9552	<b>9.704</b>	9.643	<b>9.727</b>
2593.0	40620	8.9647	8.9433	8.9596	9.683	9.664	9.720
2685.0	41540	<b>8.9760</b>	<b>8.9529</b>	<b>8.9648</b>	9.685	<b>9.673</b>	9.699

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>13.469</b>	13.420	13.408	<b>14.55</b>	14.47	<b>14.51</b>
2593.0	40620	13.448	13.414	13.399	14.46	14.41	14.42
2682.5	41515	<b>13.469</b>	<b>13.456</b>	<b>13.416</b>	14.43	<b>14.54</b>	14.39

LTE BAND 41 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2506.0	39750	17.854	<b>17.886</b>	17.850	<b>19.26</b>	<b>19.20</b>	19.31
2593.0	40620	17.870	17.866	17.855	19.22	19.15	<b>19.34</b>
2680.0	41490	<b>17.886</b>	17.879	<b>17.869</b>	19.19	19.15	19.13

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>1.0866</b>	<b>1.0864</b>	1.0839	<b>1.230</b>	1.215	1.217
1745.0	132322	1.0855	1.0832	<b>1.0841</b>	1.212	1.219	1.220
1779.3	132665	<b>1.0866</b>	1.0836	1.0836	1.218	<b>1.221</b>	<b>1.223</b>

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>2.6873</b>	2.6873	2.6850	2.950	2.962	<b>2.945</b>
1745.0	132322	2.6846	2.6901	2.6855	<b>2.958</b>	<b>2.974</b>	2.925
1778.5	132657	2.6866	<b>2.6918</b>	<b>2.6918</b>	2.948	2.969	2.943

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	4.4729	4.4742	<b>4.4902</b>	<b>4.920</b>	<b>4.939</b>	4.914
1745.0	132322	4.4770	<b>4.4802</b>	4.4819	<b>4.920</b>	<b>4.939</b>	4.906
1777.5	132647	<b>4.4785</b>	4.4762	4.4829	4.915	4.916	<b>4.935</b>

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	8.9448	8.9240	8.9372	<b>9.715</b>	<b>9.706</b>	9.698
1745.0	132322	<b>8.9531</b>	<b>8.9266</b>	8.9351	9.699	9.663	<b>9.704</b>
1775.0	132622	8.9473	8.9178	<b>8.9394</b>	9.612	9.680	9.701

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	13.394	13.416	13.389	14.02	<b>14.52</b>	14.55
1745.0	132322	13.417	<b>13.432</b>	13.394	<b>14.57</b>	14.51	<b>14.56</b>
1772.5	132597	<b>13.441</b>	13.409	<b>13.409</b>	<b>14.57</b>	<b>14.52</b>	14.55

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	17.831	17.834	17.849	<b>19.25</b>	<b>20.40</b>	19.10
1745.0	132322	<b>17.884</b>	17.880	<b>17.861</b>	19.22	19.29	<b>19.26</b>
1770.0	132572	17.881	<b>17.901</b>	17.727	19.20	19.32	18.67

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LTE BAND 71 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
665.5	133147	4.4855	4.4849	4.4922	4.927	4.909	4.913
680.5	133297	4.4835	4.4728	4.4921	4.938	4.942	4.910
695.5	133447	4.4740	4.4780	4.4861	4.931	4.908	4.887

LTE BAND 71 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
670.5	133197	13.382	13.360	13.345	14.39	14.41	14.41
680.5	133297	13.437	13.451	13.436	14.47	14.58	14.49
690.5	133397	13.378	13.397	13.393	14.47	14.53	14.52

LTE BAND 71 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
688.0	133172	8.9441	8.9329	8.9425	9.664	9.611	9.676
680.5	133297	8.9621	8.9297	8.9434	9.758	9.684	9.725
693.0	133422	8.9516	8.9163	8.9253	9.637	9.614	9.668

LTE BAND 71 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
673.0	133222	17.762	17.804	17.771	19.06	19.15	19.26
680.5	133297	17.914	17.887	17.900	19.09	19.23	19.34
688.0	133372	17.837	17.837	17.829	19.11	19.16	19.36

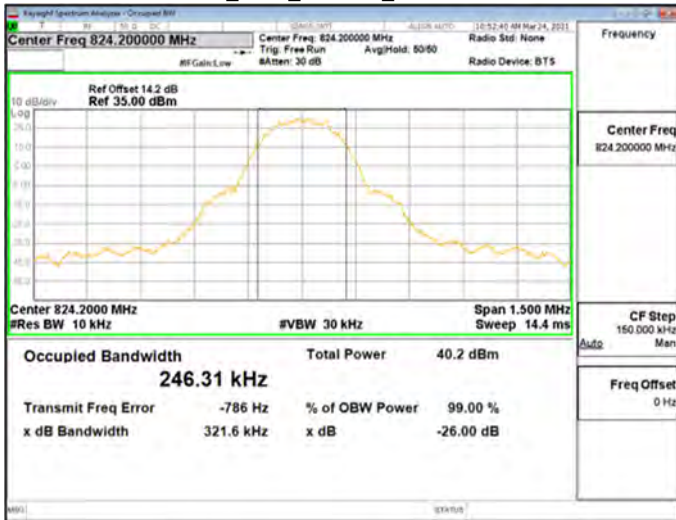
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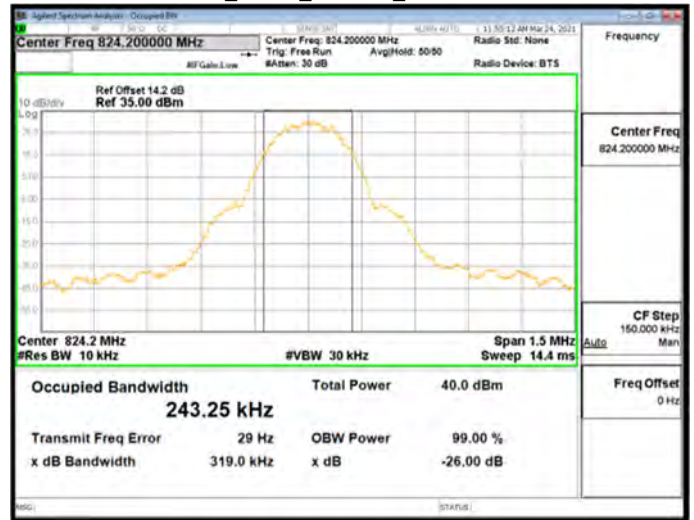
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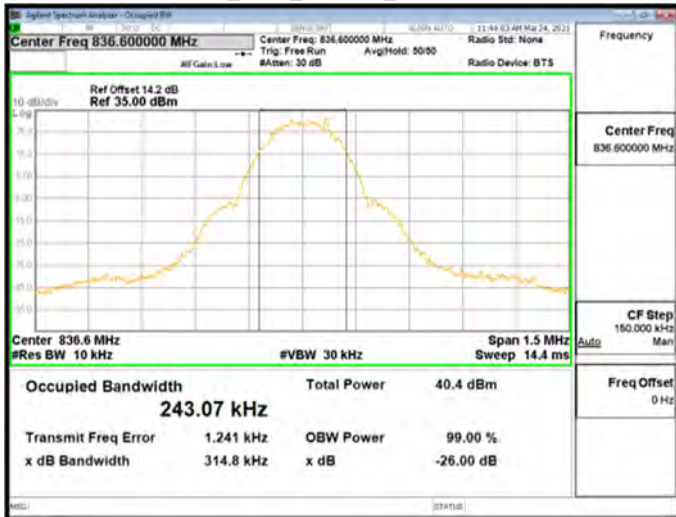
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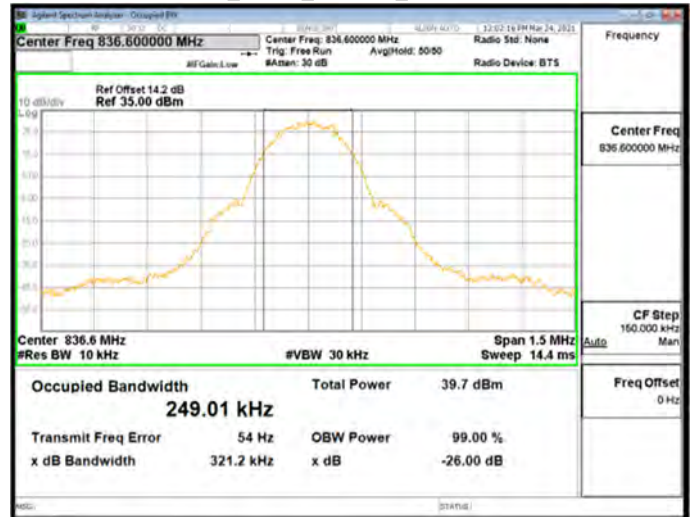
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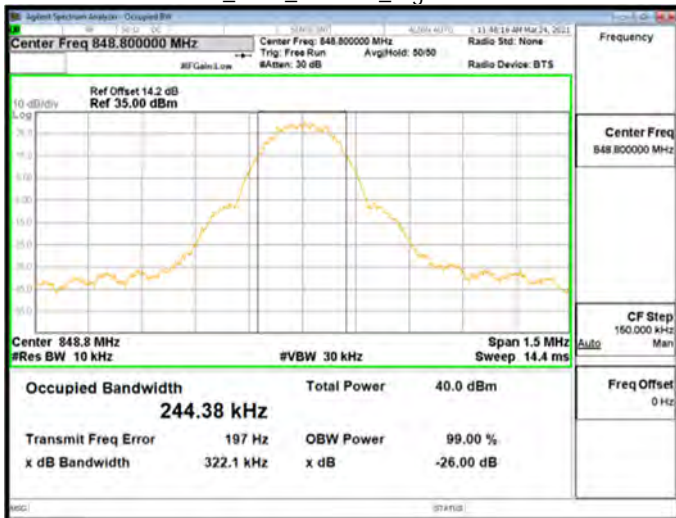
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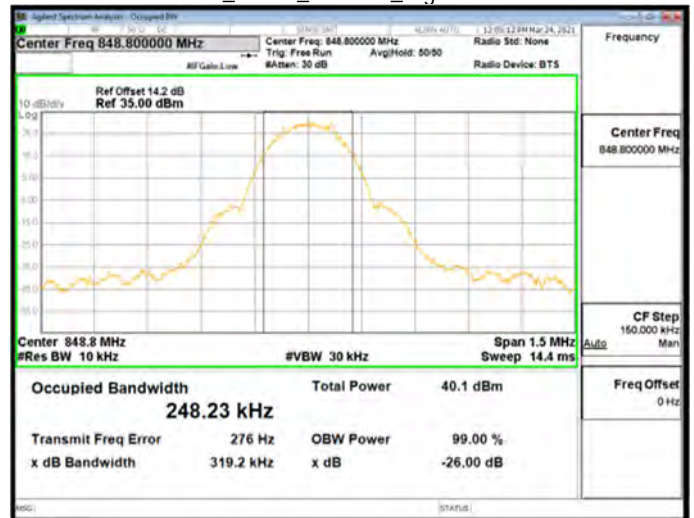
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OBW 99%\_GSM\_850MHz\_HighCH251-848.8



OBW 99%\_GPRS\_850MHz\_HighCH251-848.8

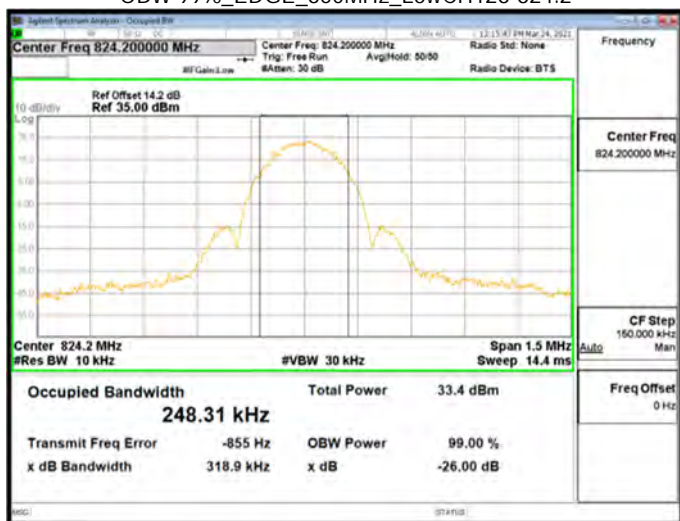


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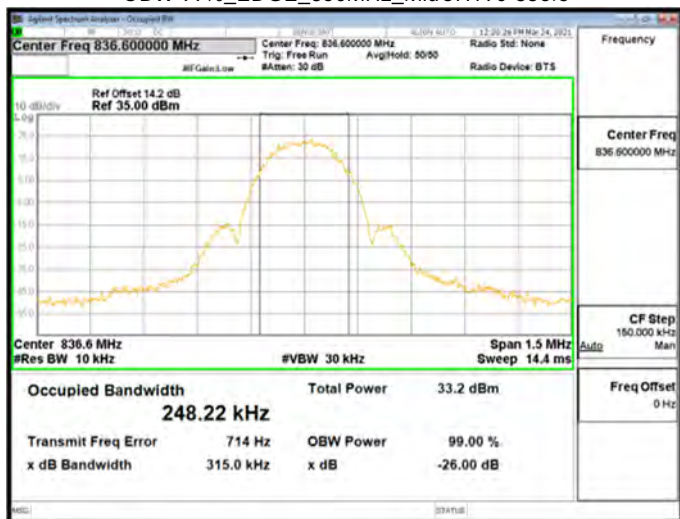
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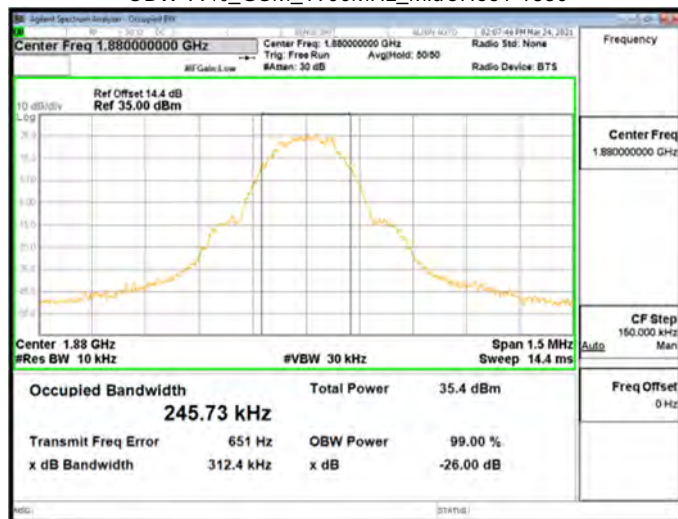
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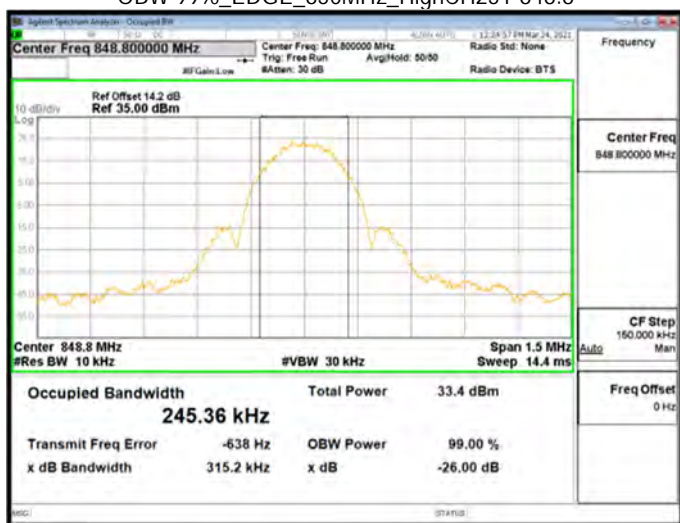
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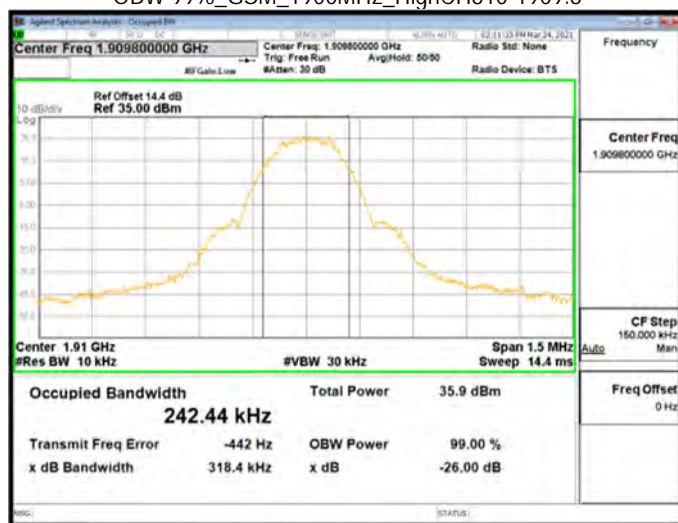
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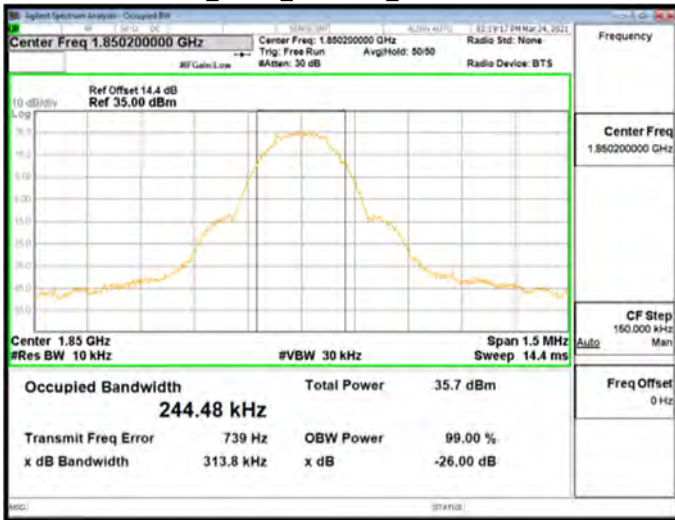
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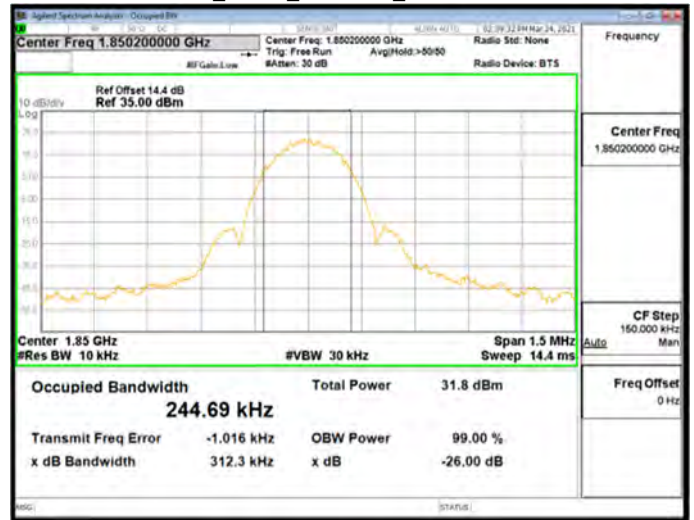
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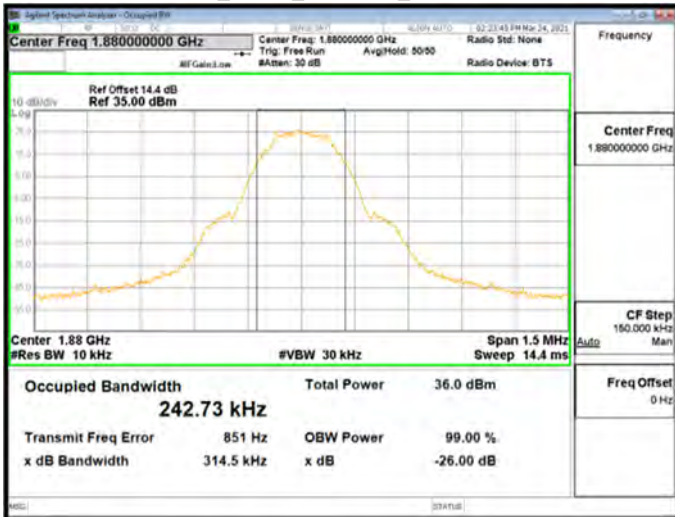
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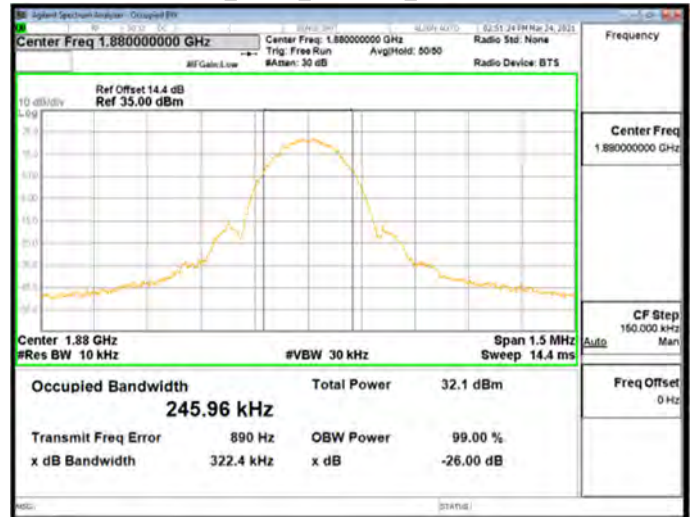
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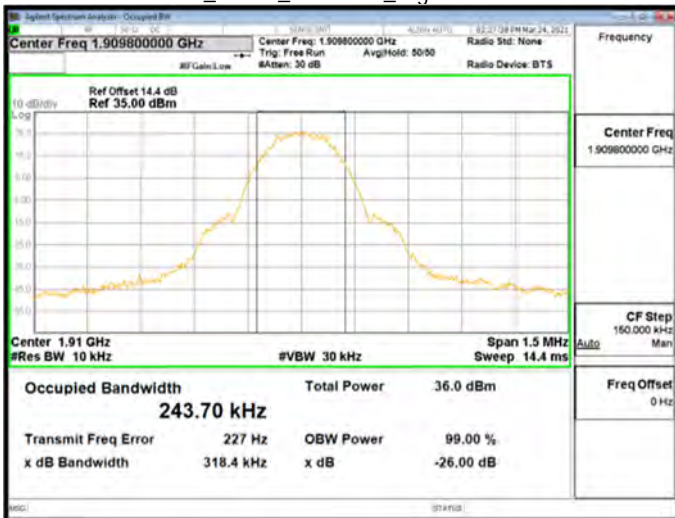
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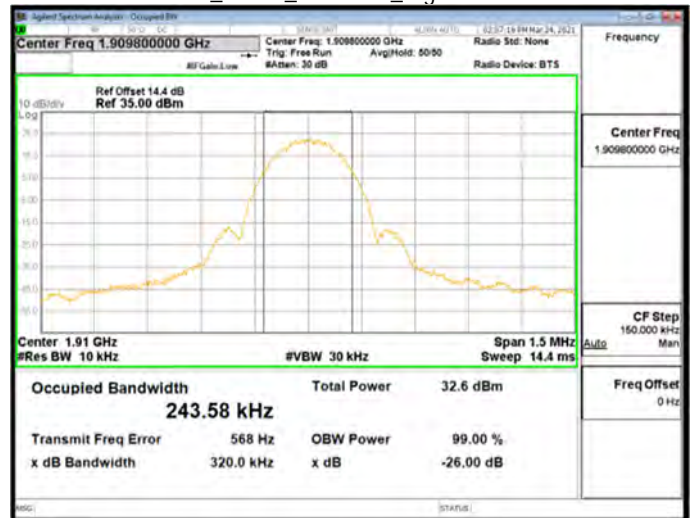
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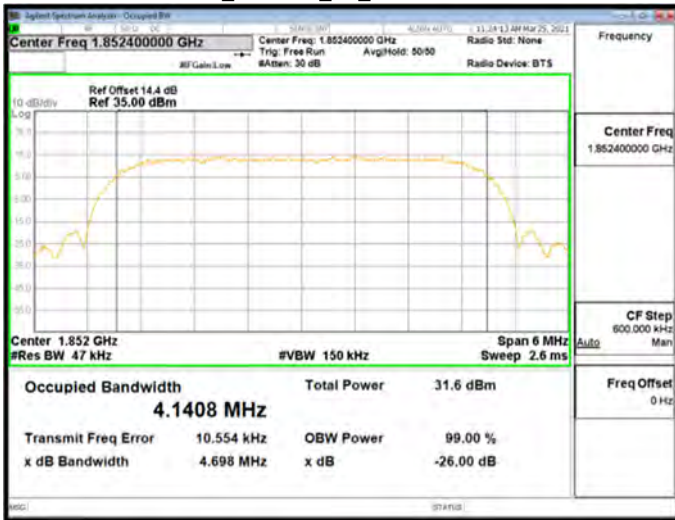


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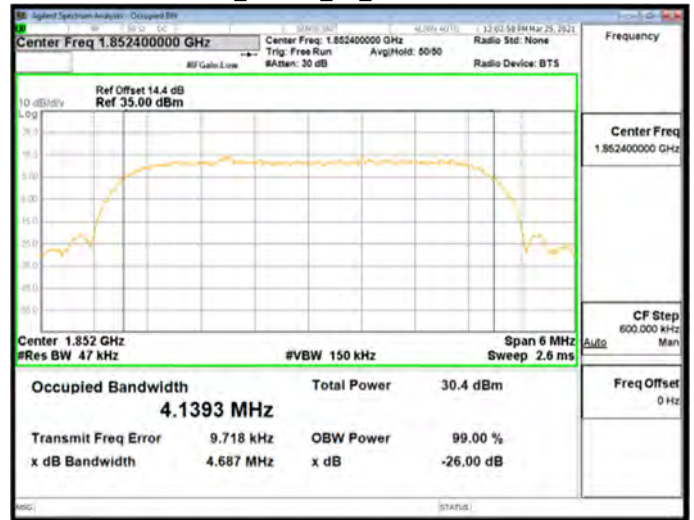
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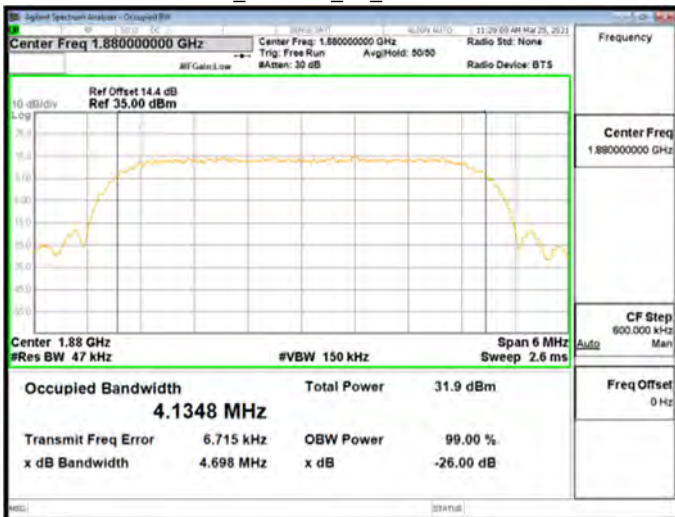
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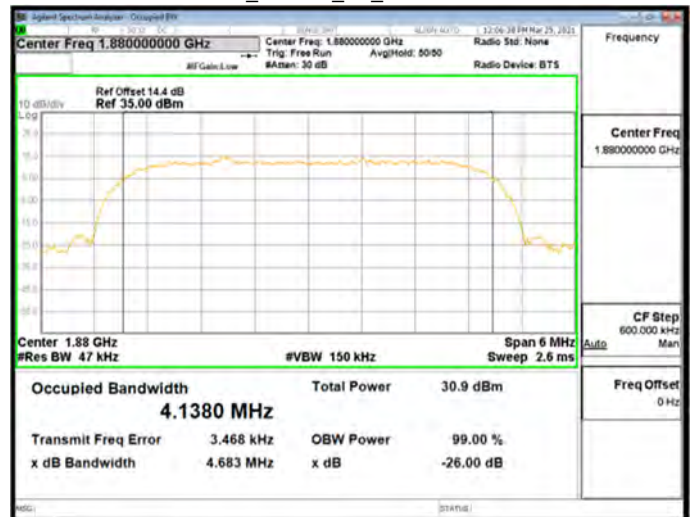
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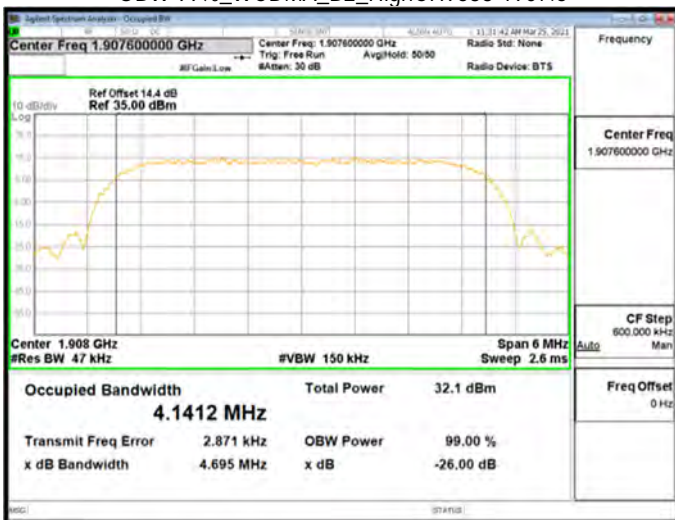
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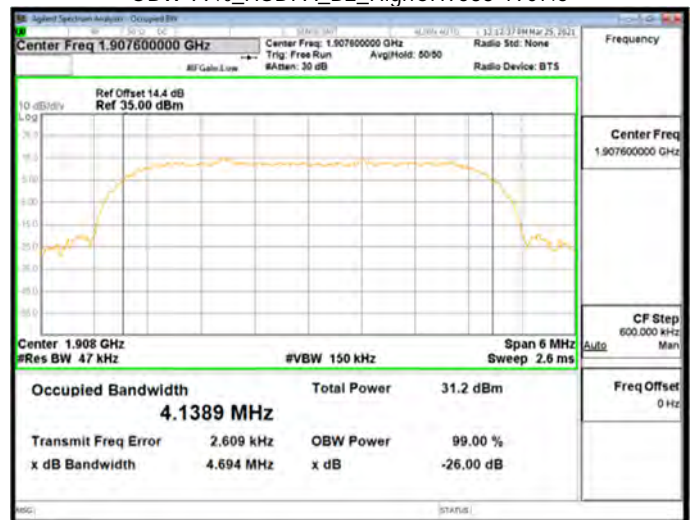
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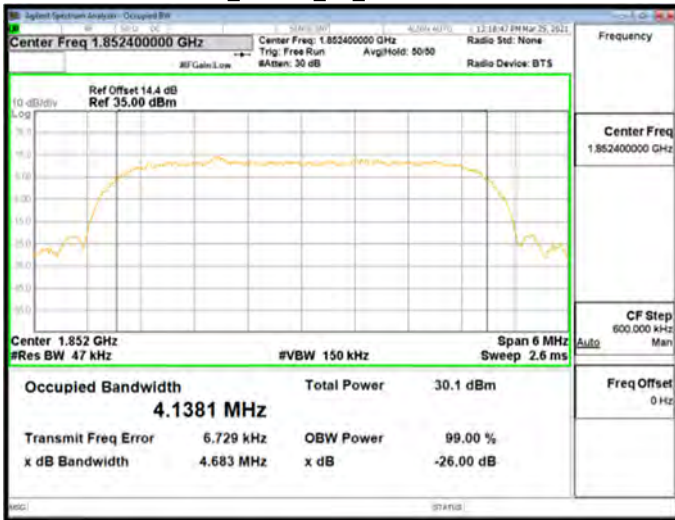
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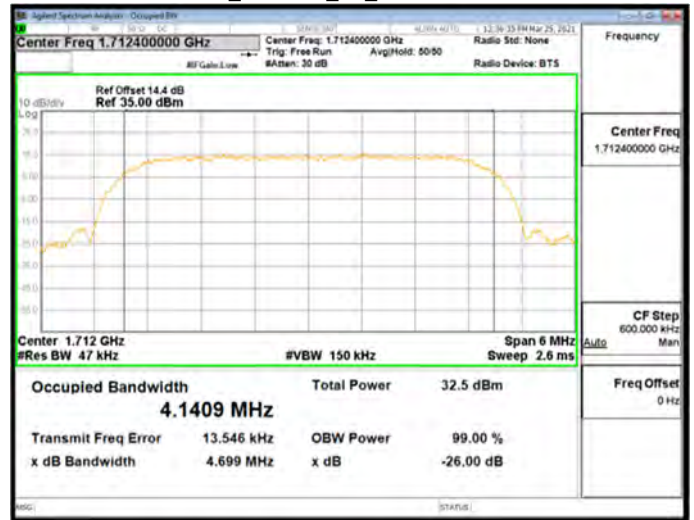
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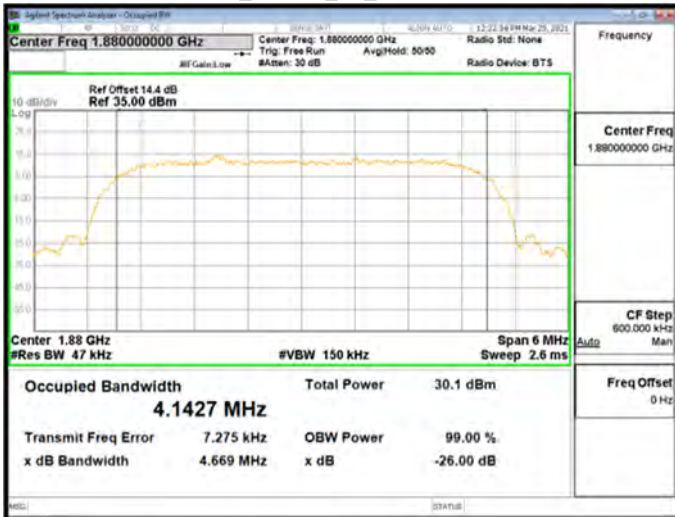
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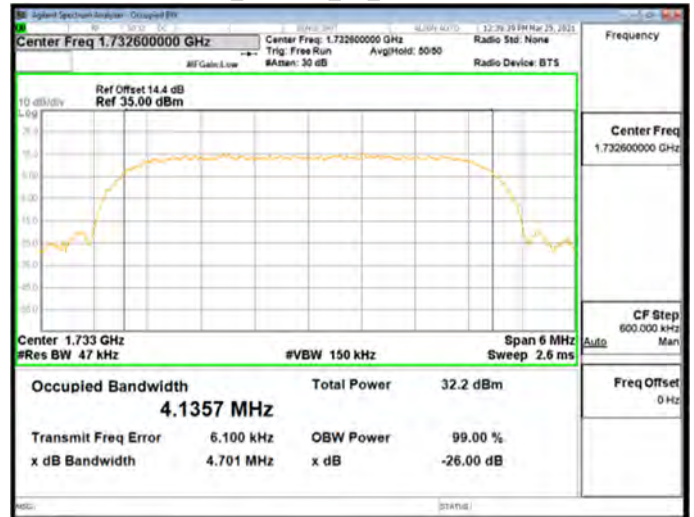
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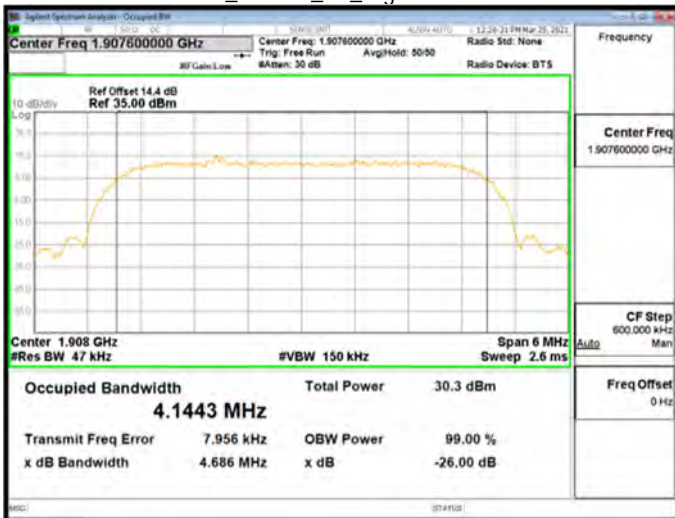
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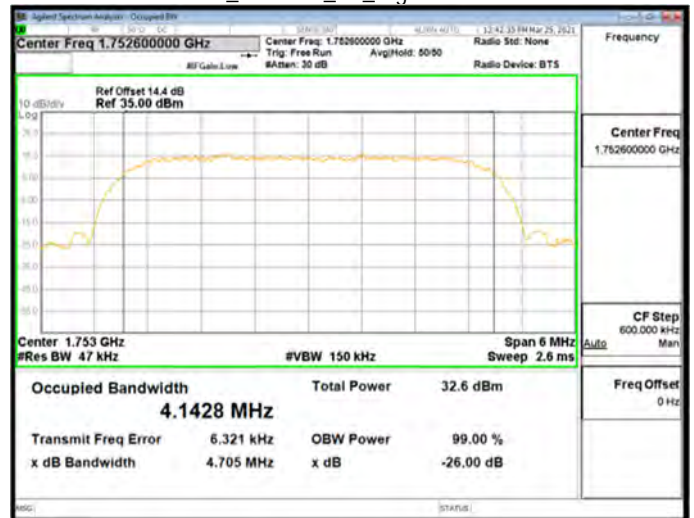
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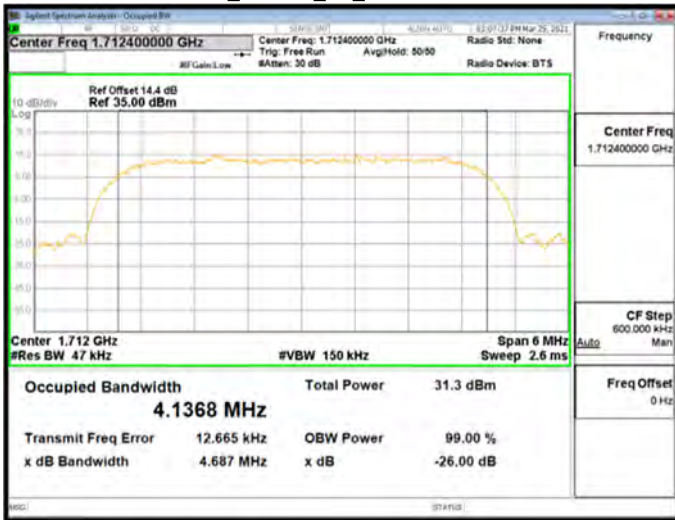


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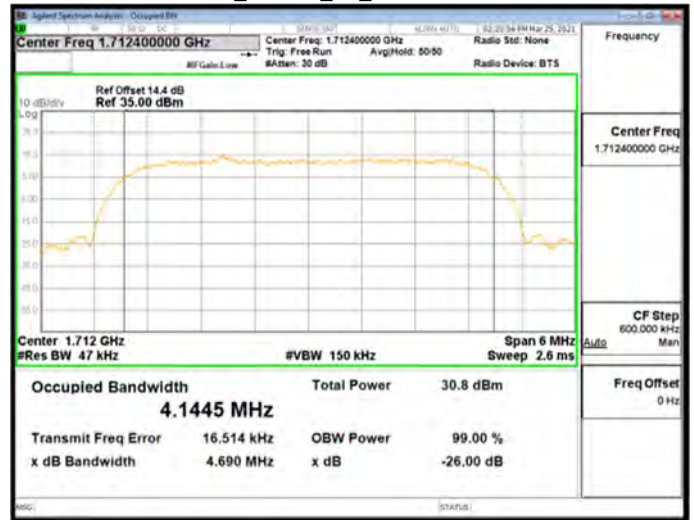
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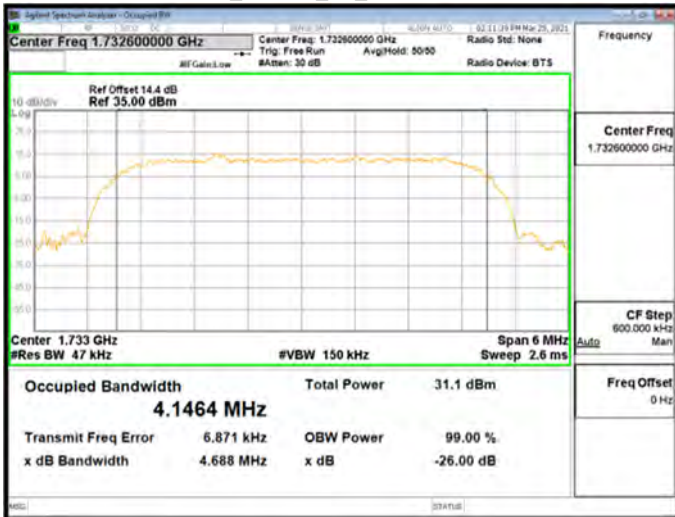
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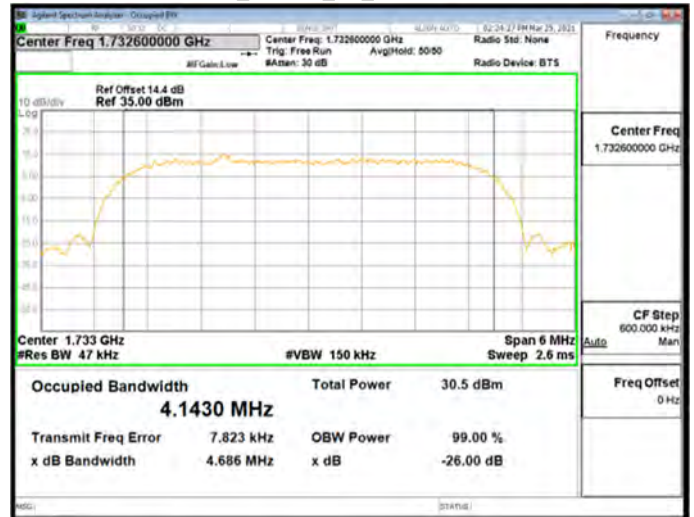
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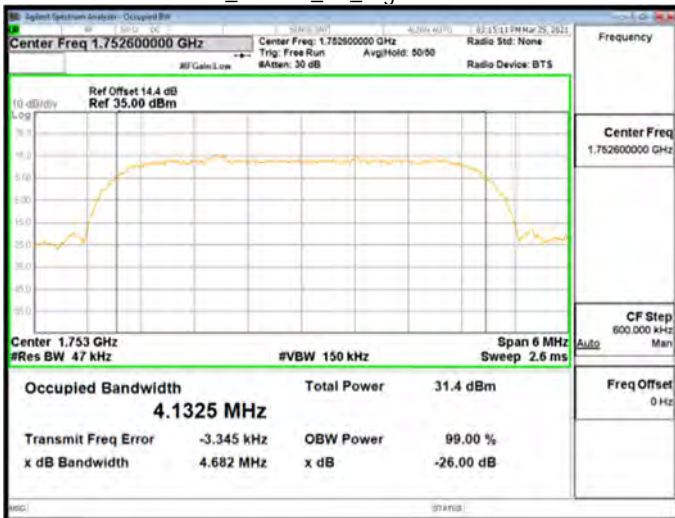
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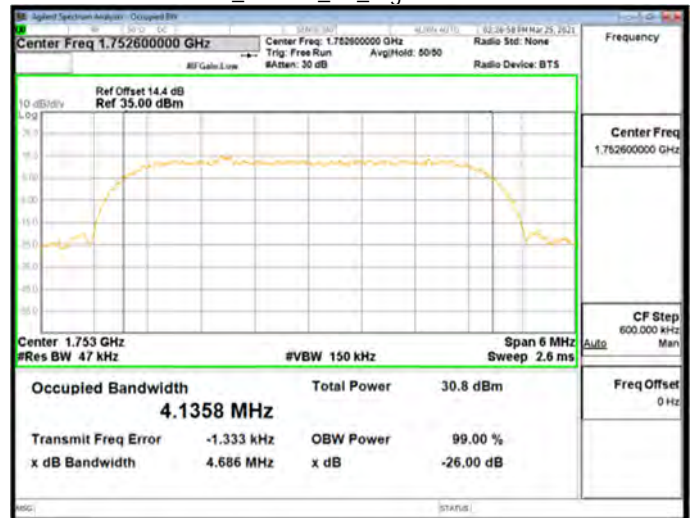
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OBW 99%\_HSDPA\_B4\_HighCH1513-1752.6



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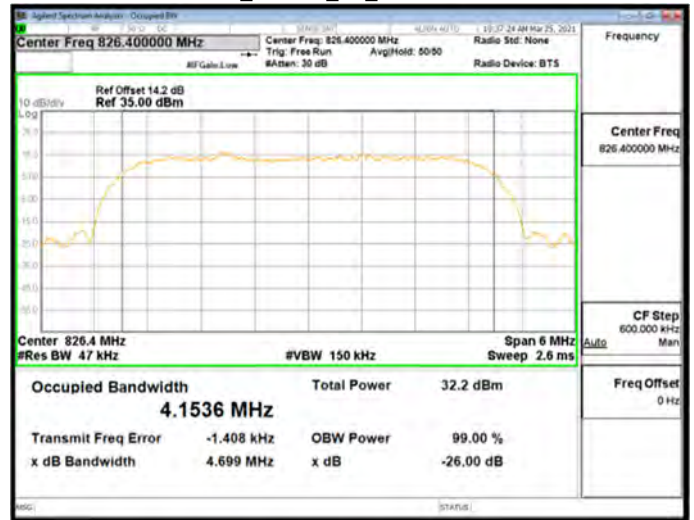
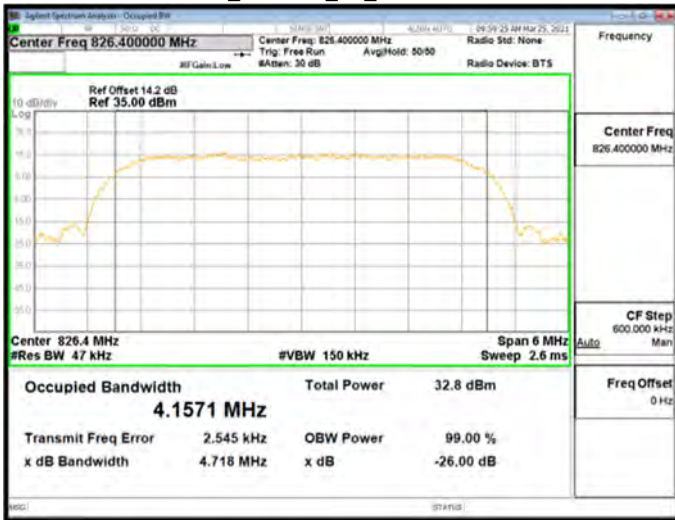
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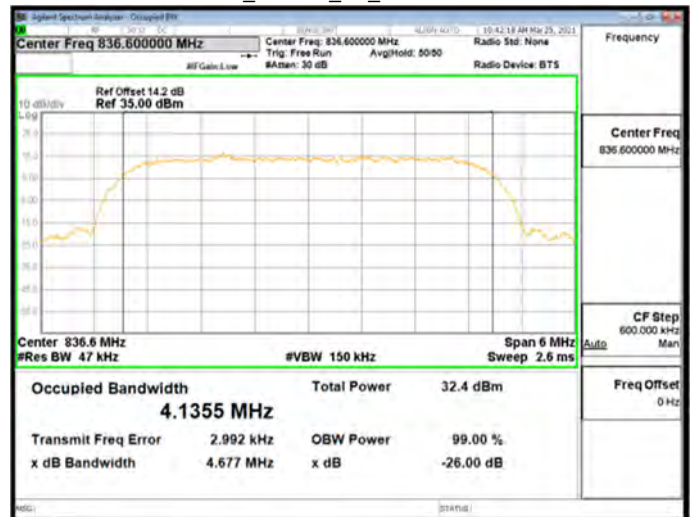
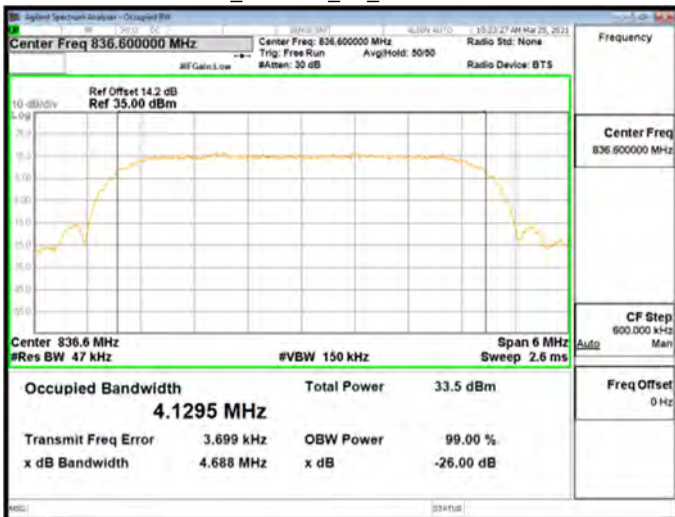
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OBW 99%\_HSDPA\_B5\_LowCH4132-826.4



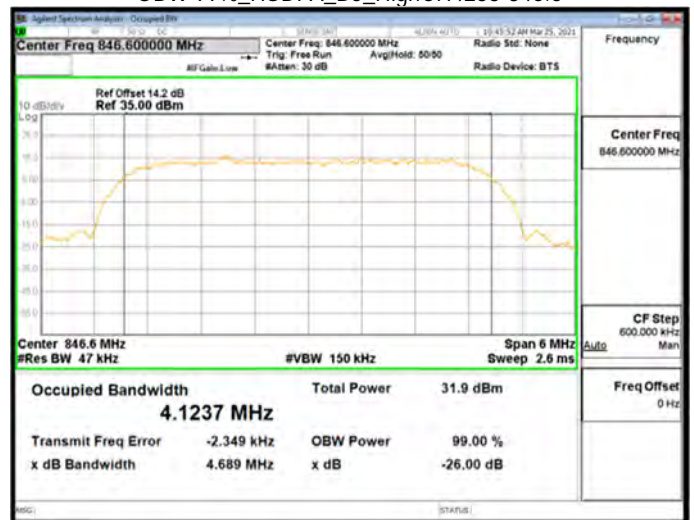
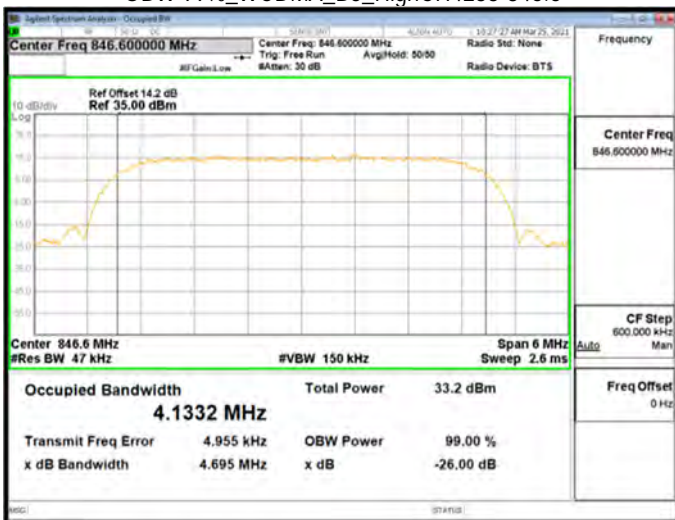
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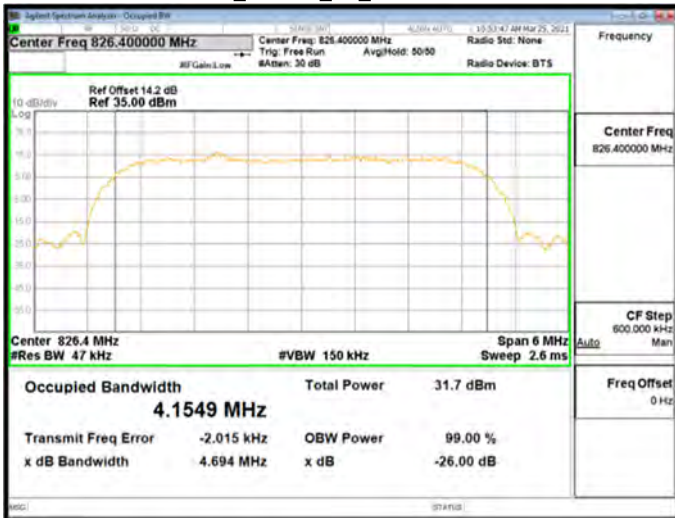


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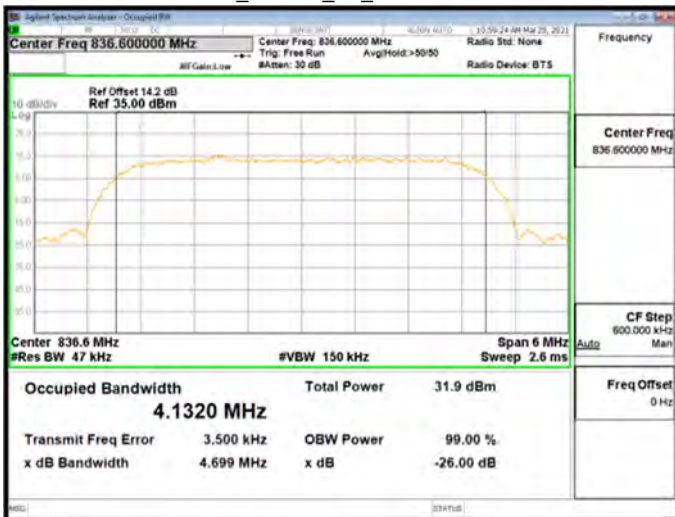
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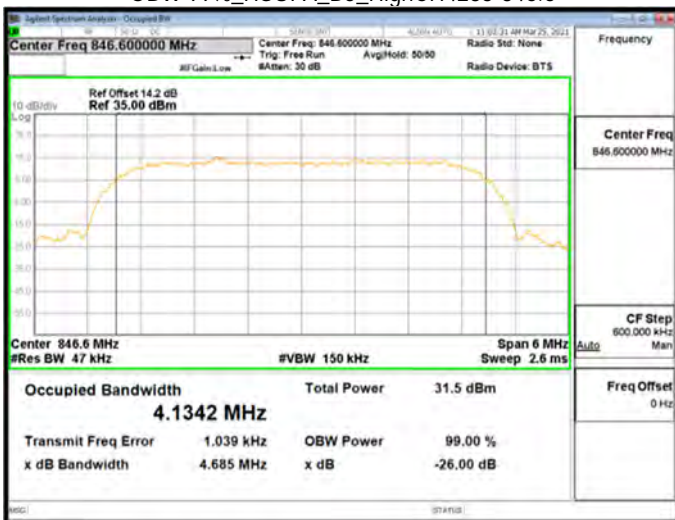
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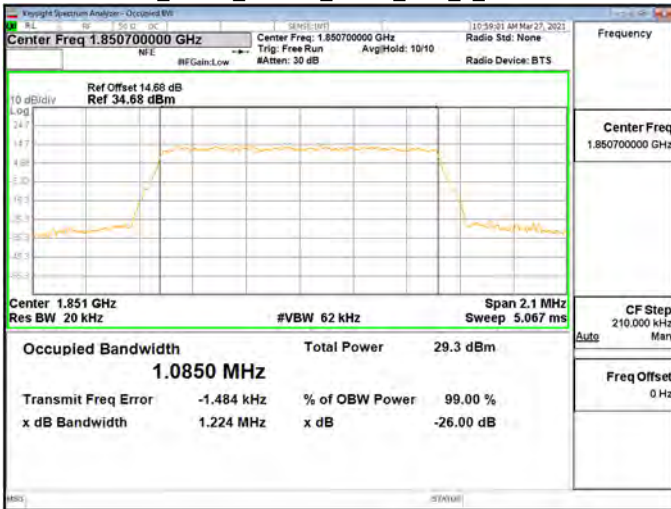
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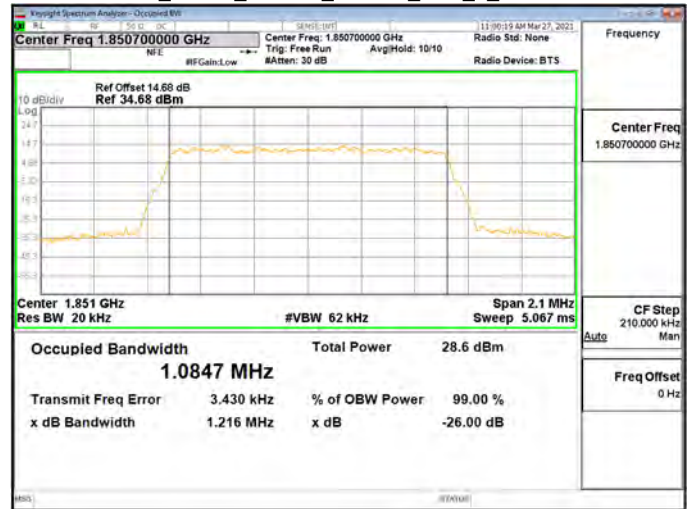
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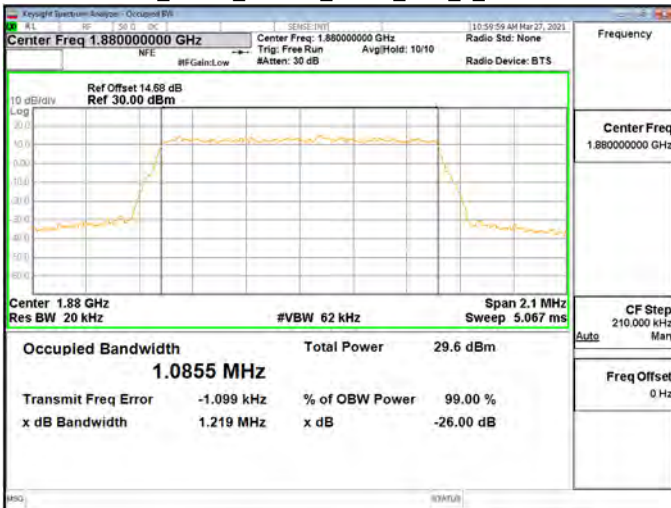
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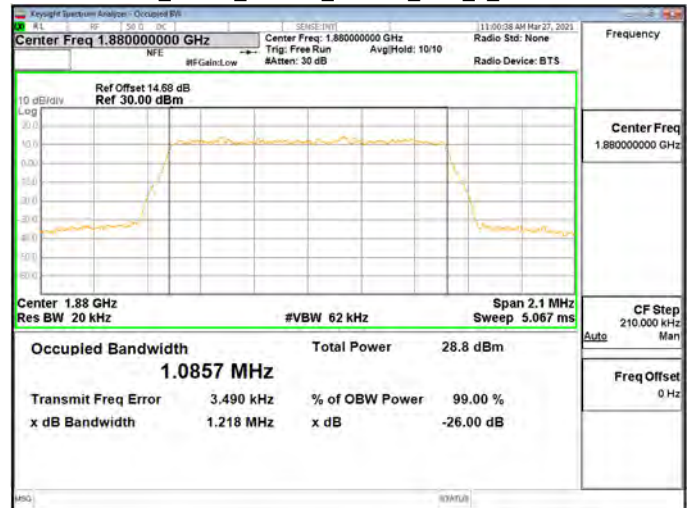
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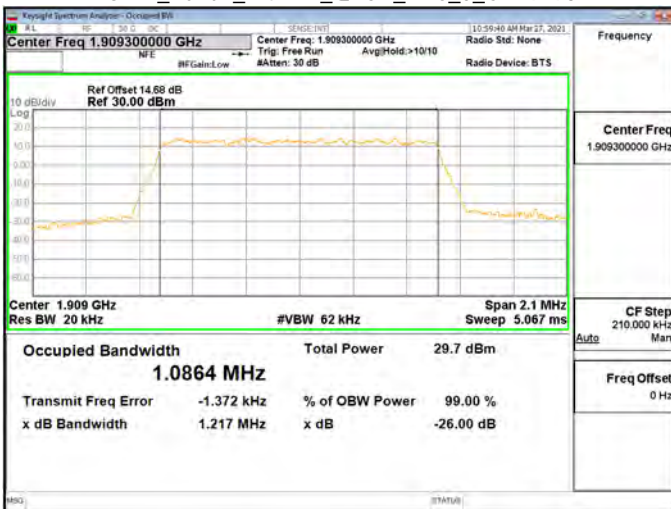
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OBW\_Band2\_1.4MHz\_16QAM\_RB6\_0\_CH18900



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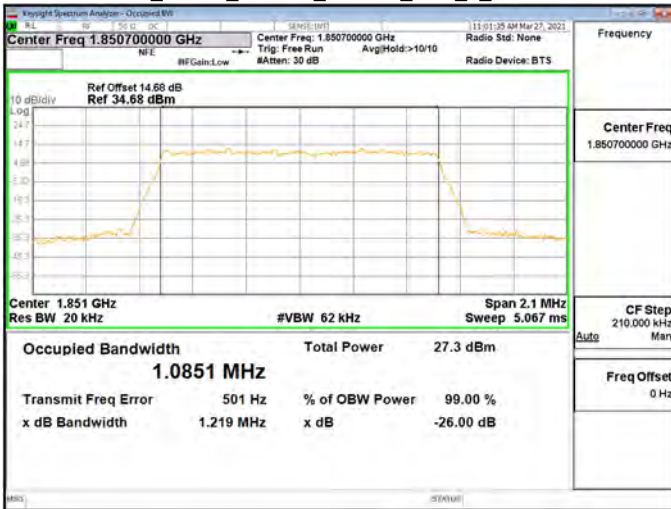


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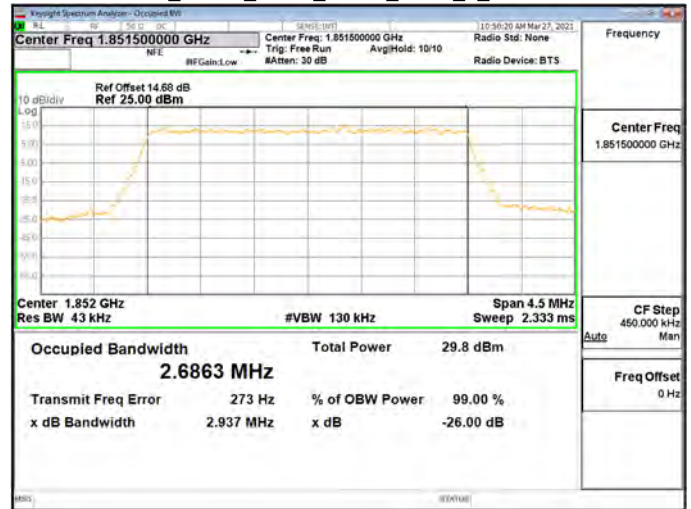
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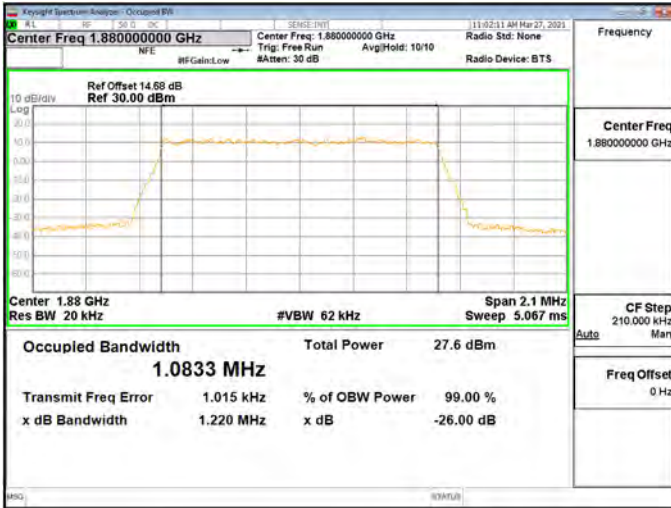
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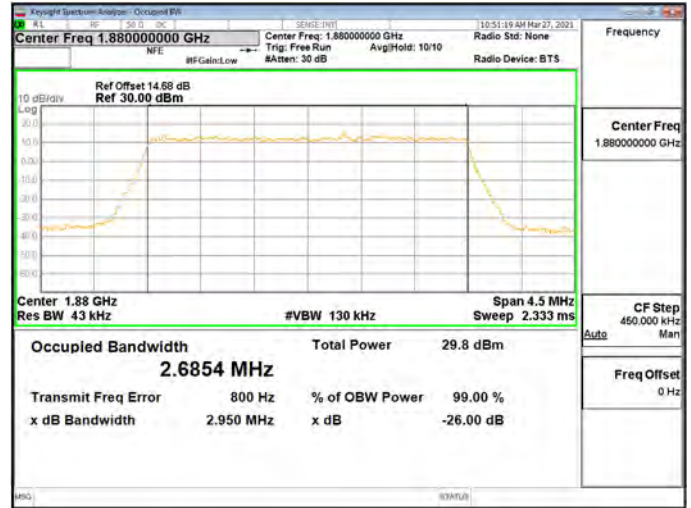
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OBW\_Band2\_1.4MHz\_64QAM\_RB6\_0\_CH18900



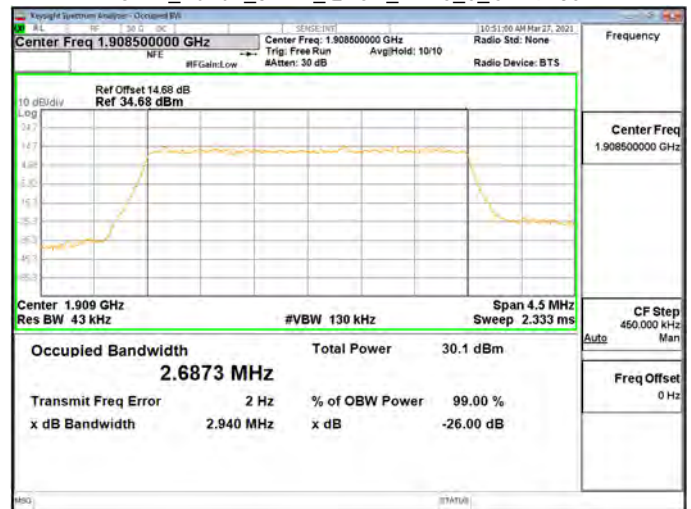
OBW\_Band2\_3MHz\_QPSK\_RB15\_0\_CH18900



OBW\_Band2\_1.4MHz\_64QAM\_RB6\_0\_CH19193



OBW\_Band2\_3MHz\_QPSK\_RB15\_0\_CH19185



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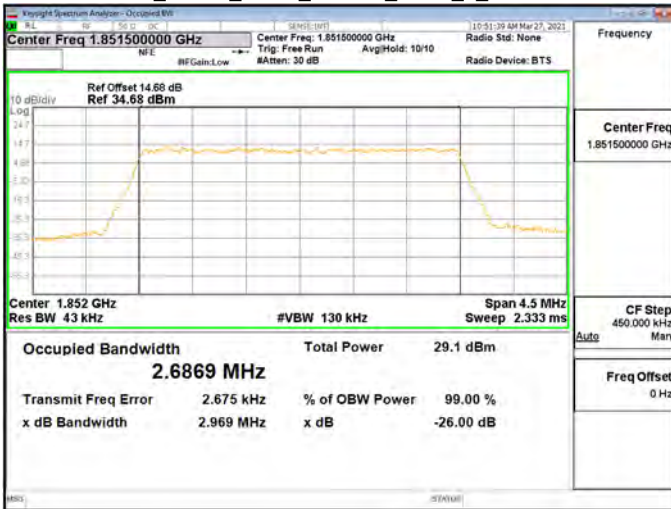
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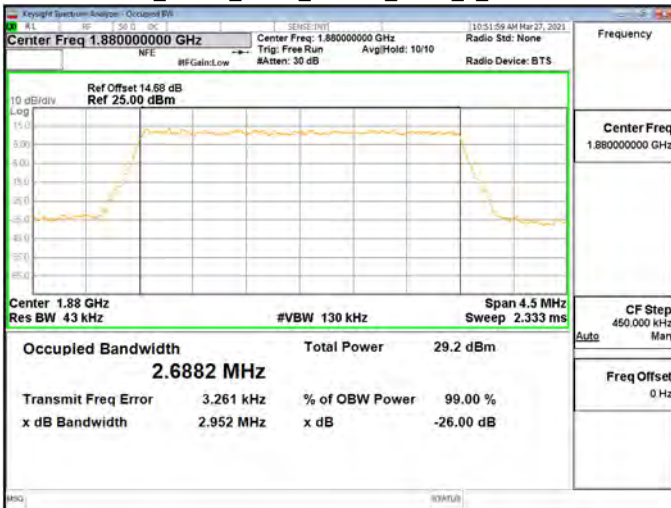
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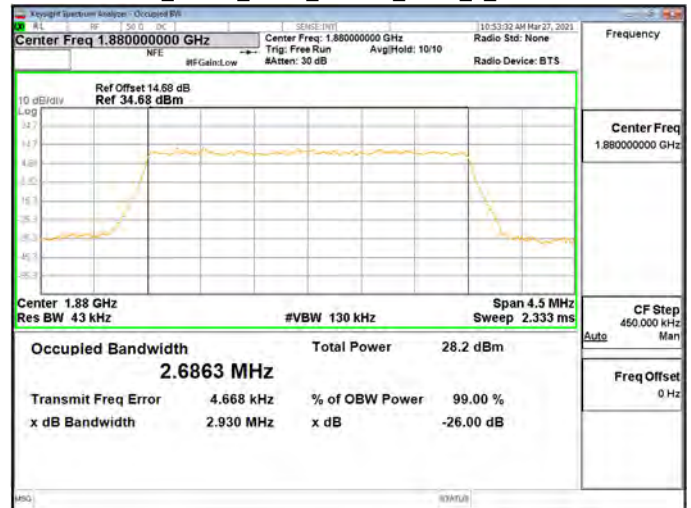
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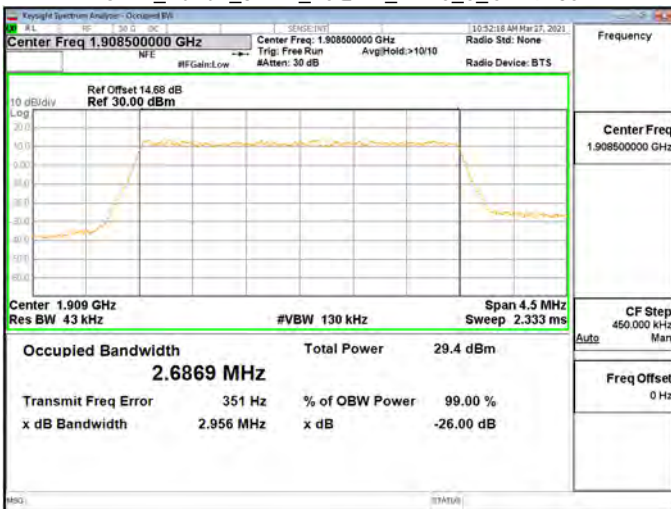
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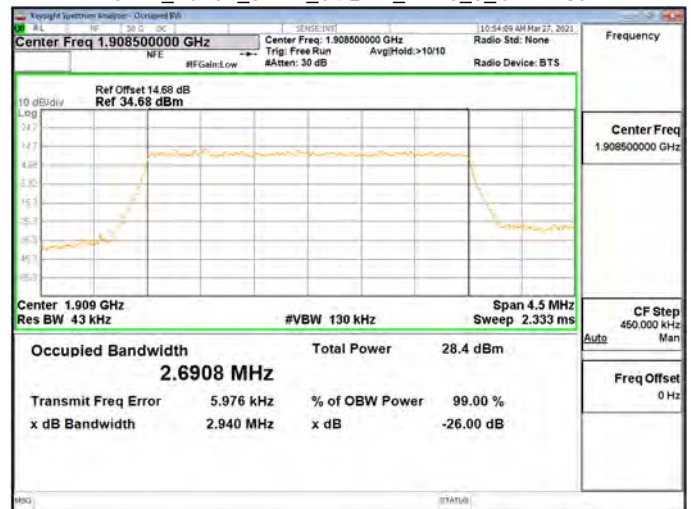
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OBW\_Band2\_3MHz\_16QAM\_RB15\_0\_CH19185



OBW\_Band2\_3MHz\_64QAM\_RB15\_0\_CH19185



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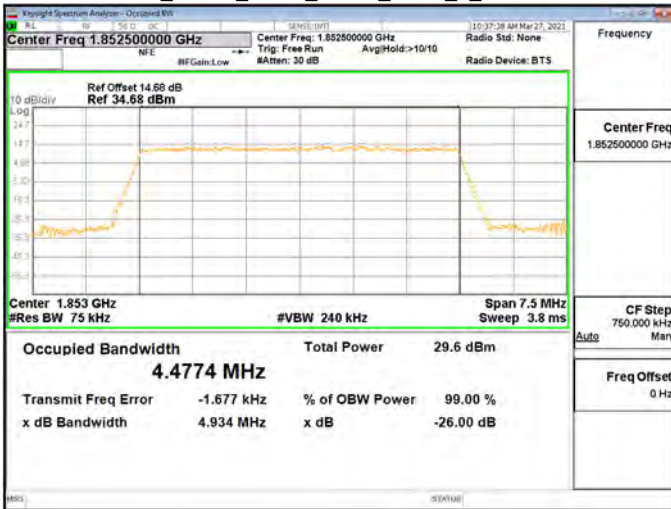
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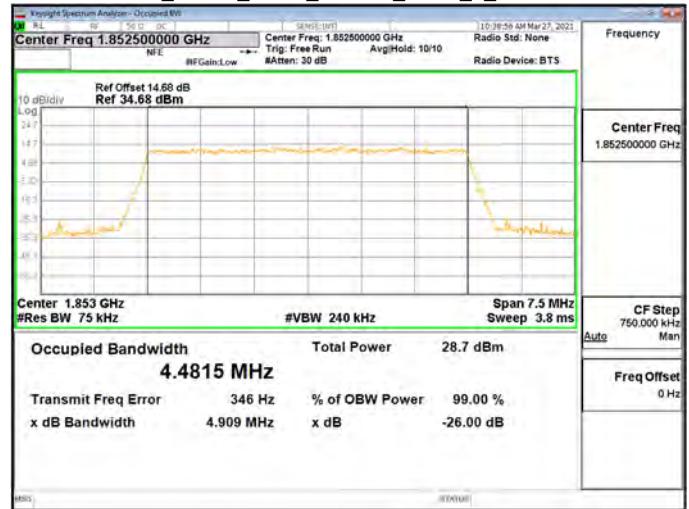
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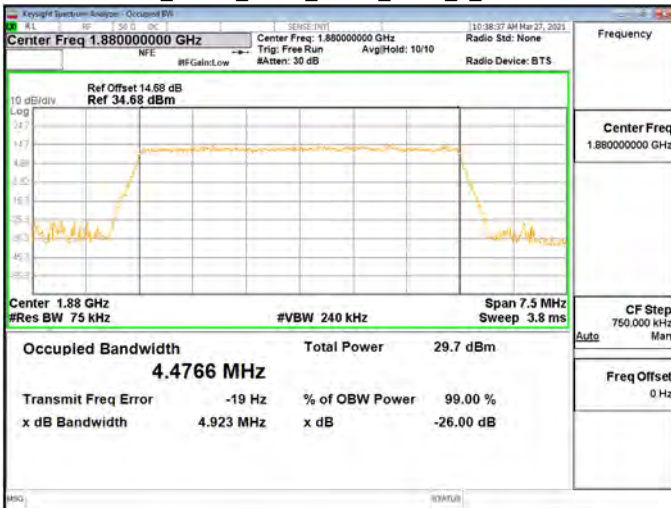
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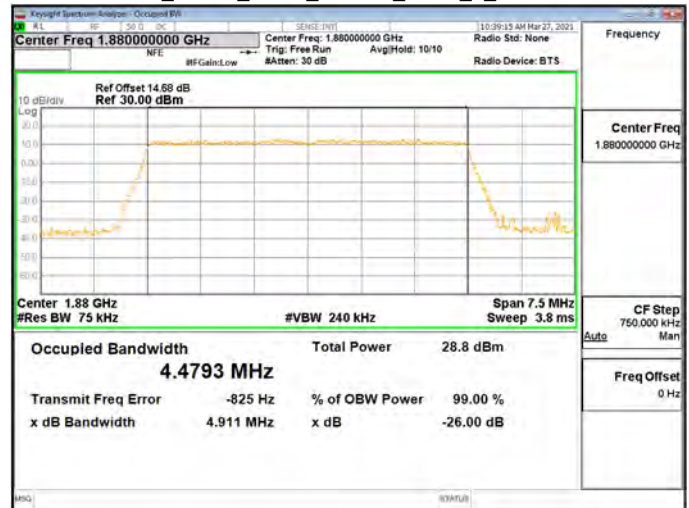
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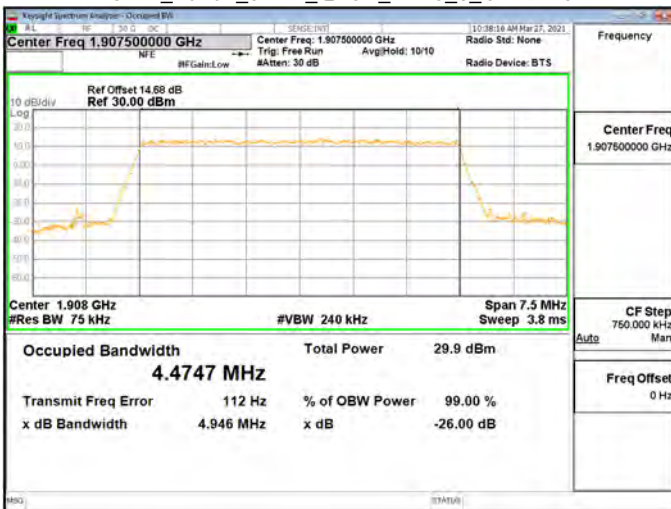
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OBW\_Band2\_5MHz\_16QAM\_RB25\_0\_CH18900



OBW\_Band2\_5MHz\_QPSK\_RB25\_0\_CH19175



OBW\_Band2\_5MHz\_16QAM\_RB25\_0\_CH19175



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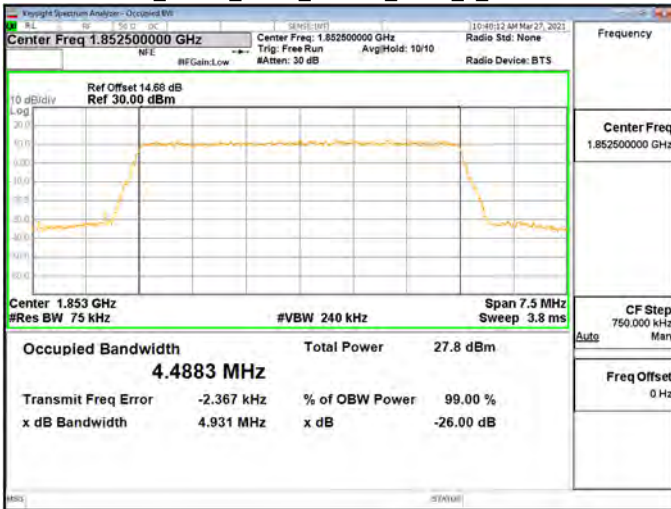
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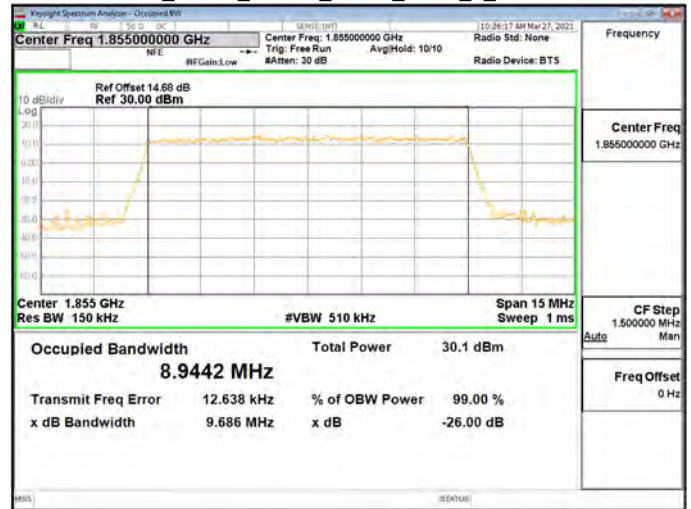
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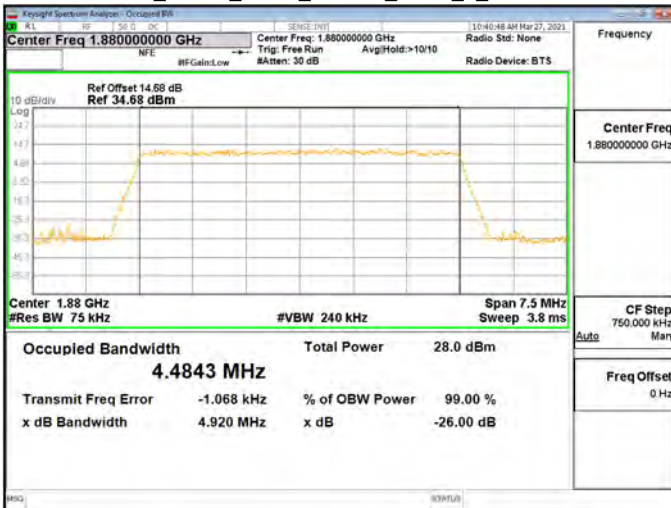
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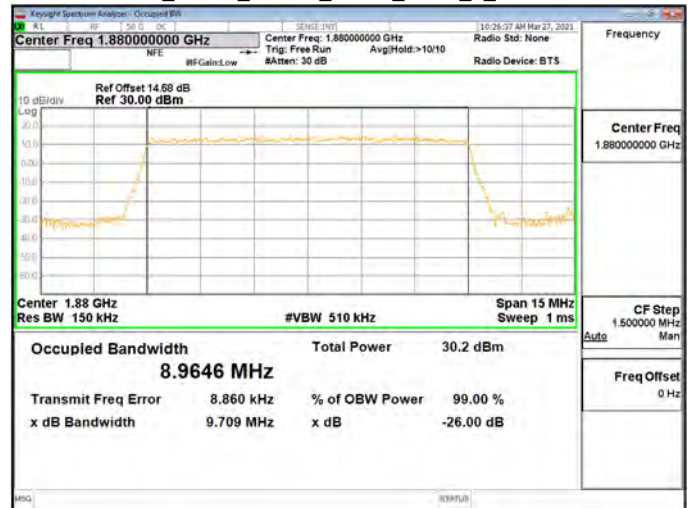
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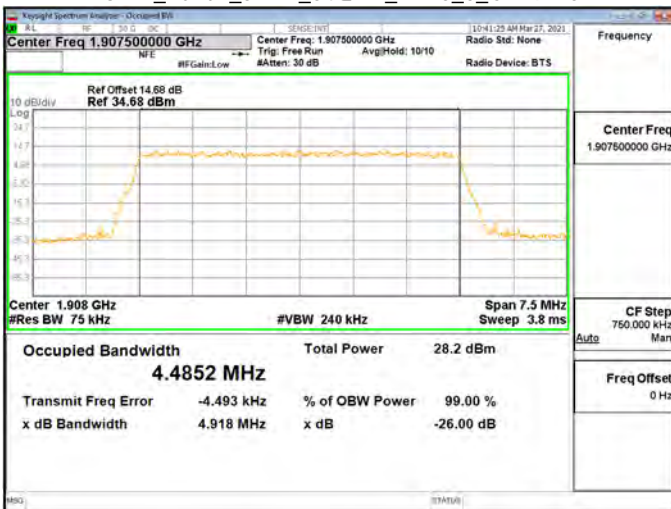
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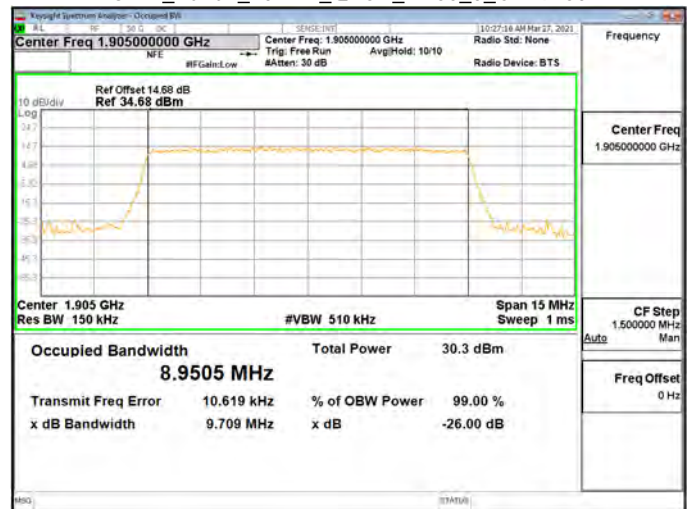
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OBW\_Band2\_5MHz\_64QAM\_RB25\_0\_CH19175



OBW\_Band2\_10MHz\_QPSK\_RB50\_0\_CH19150



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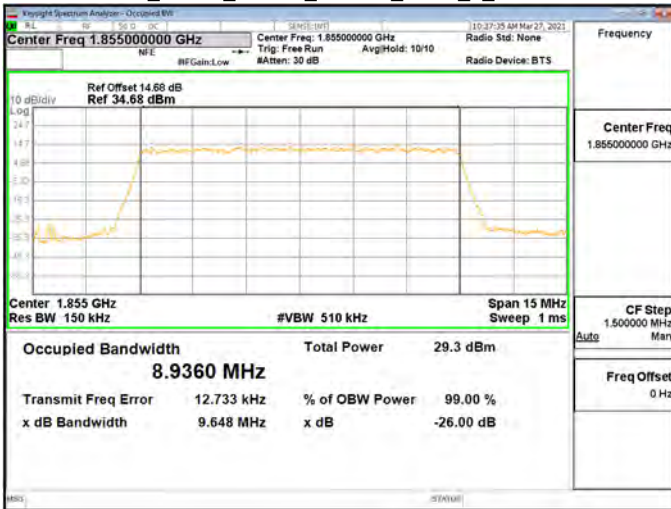
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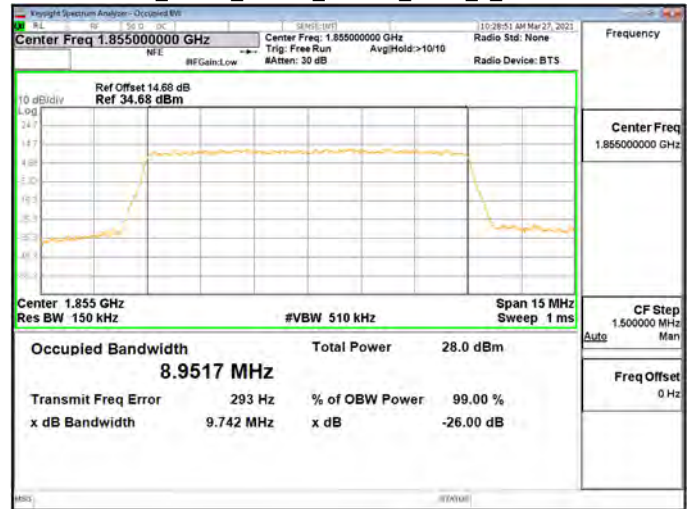
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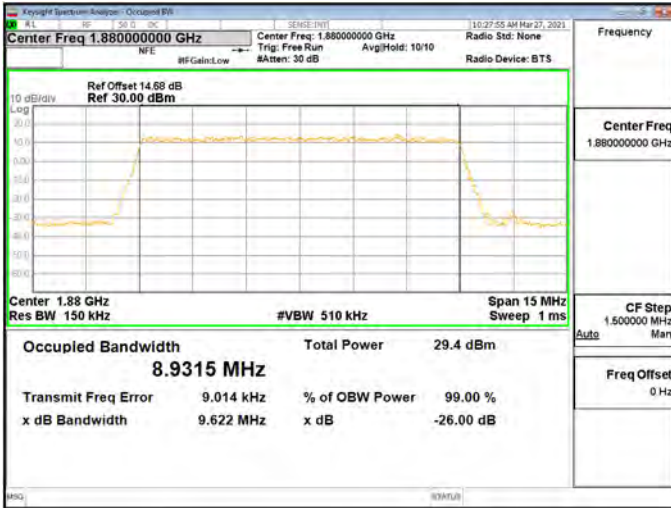
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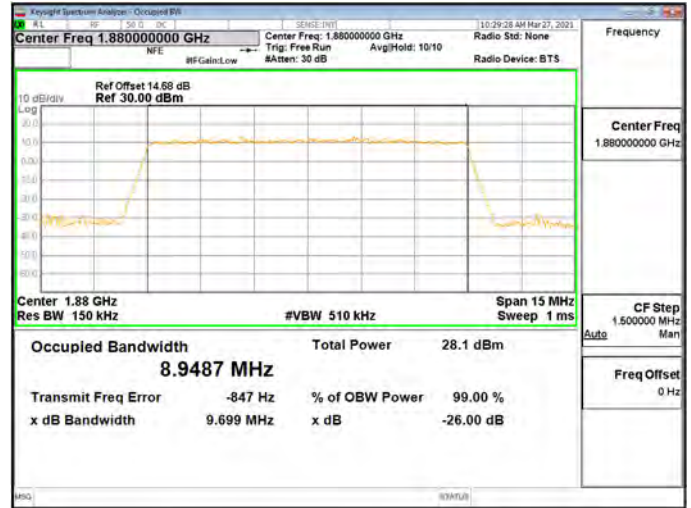
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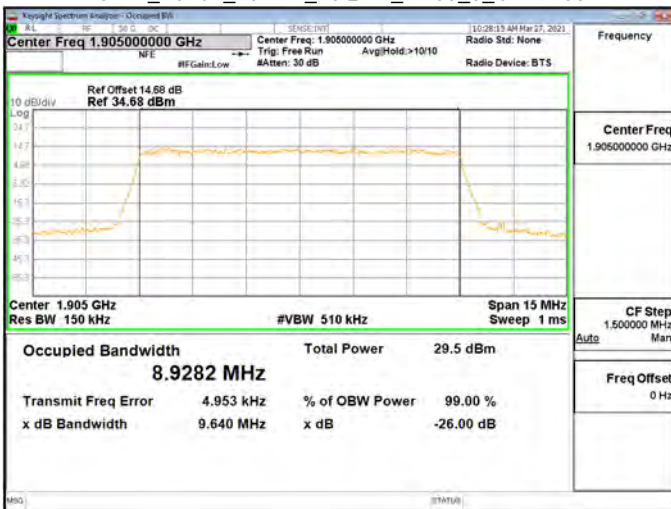
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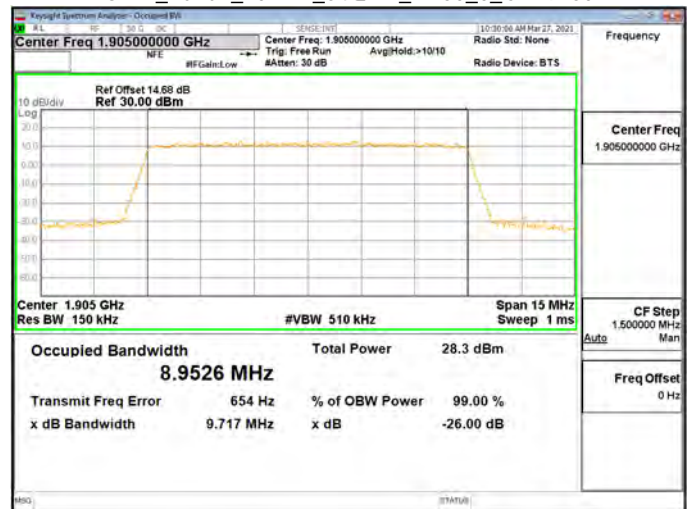
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OBW\_Band2\_10MHz\_16QAM\_RB50\_0\_CH19150



OBW\_Band2\_10MHz\_64QAM\_RB50\_0\_CH19150



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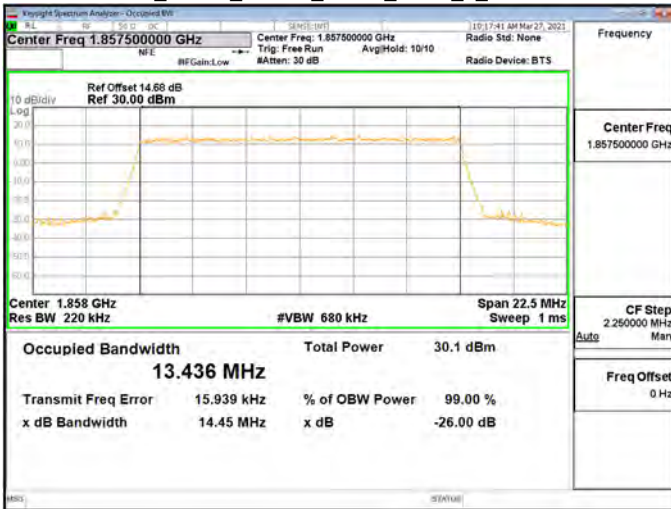
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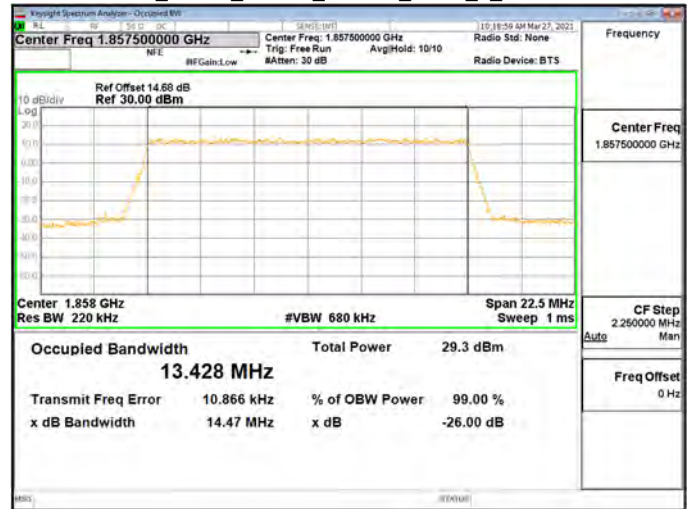
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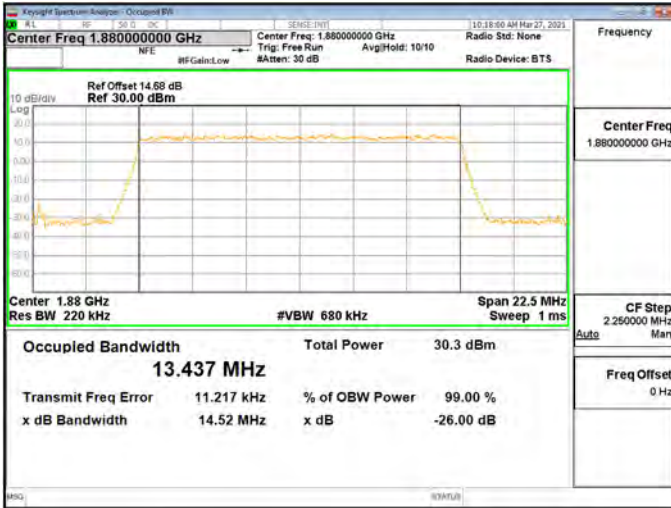
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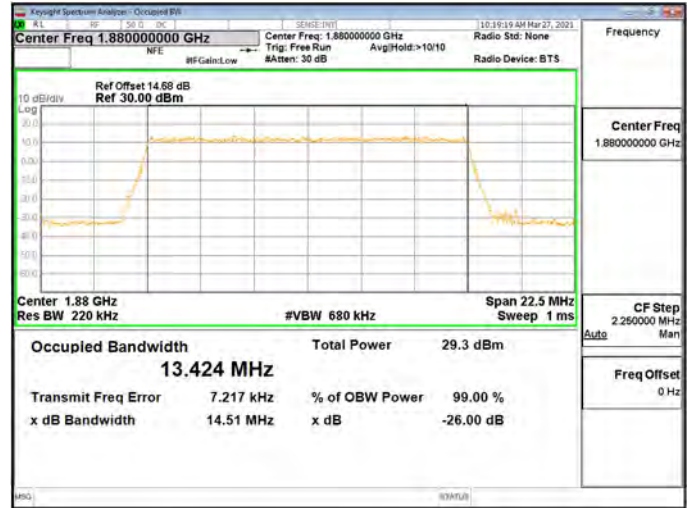
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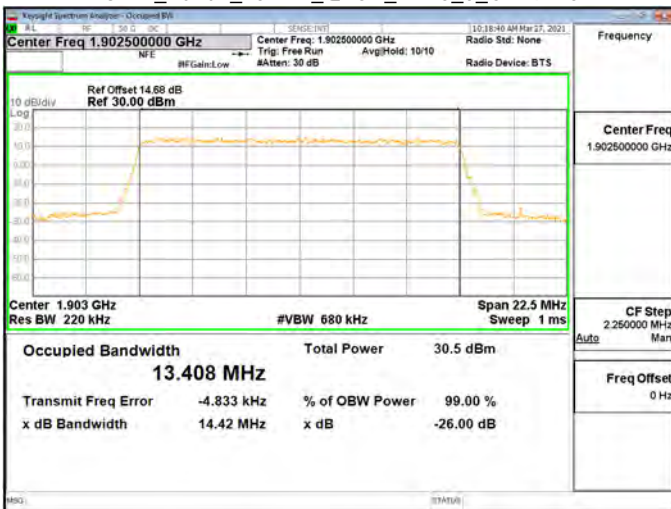
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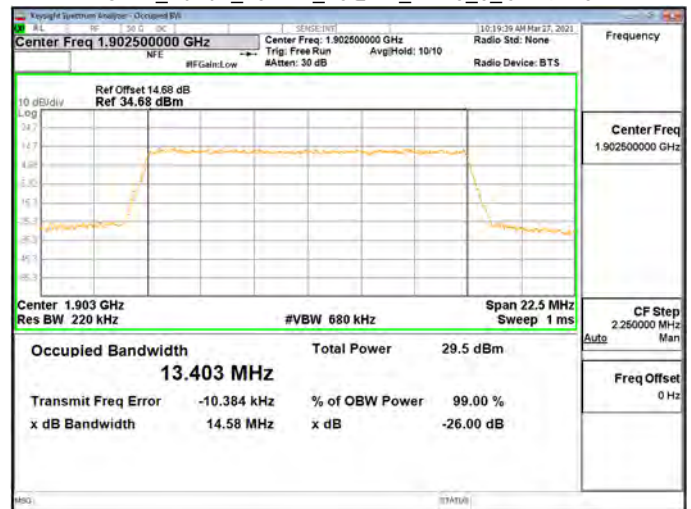
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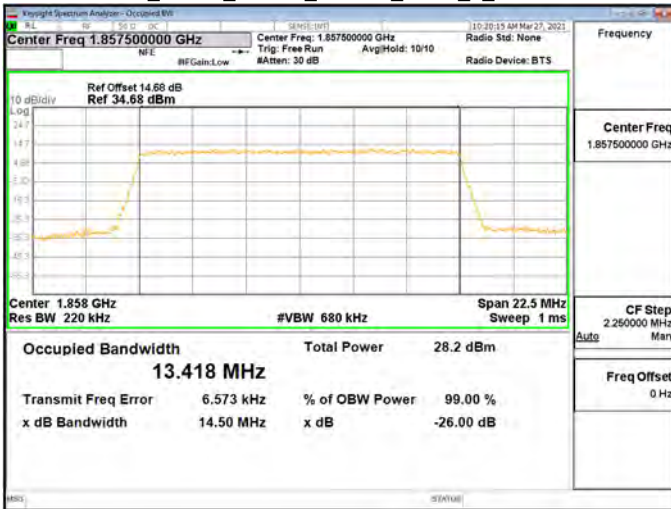


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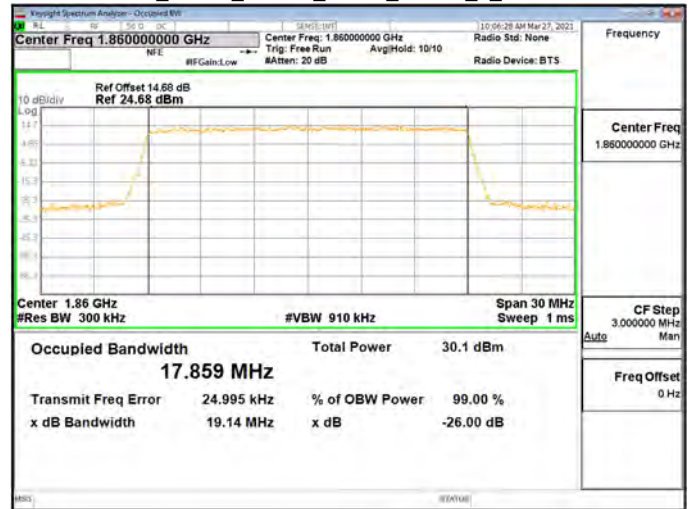
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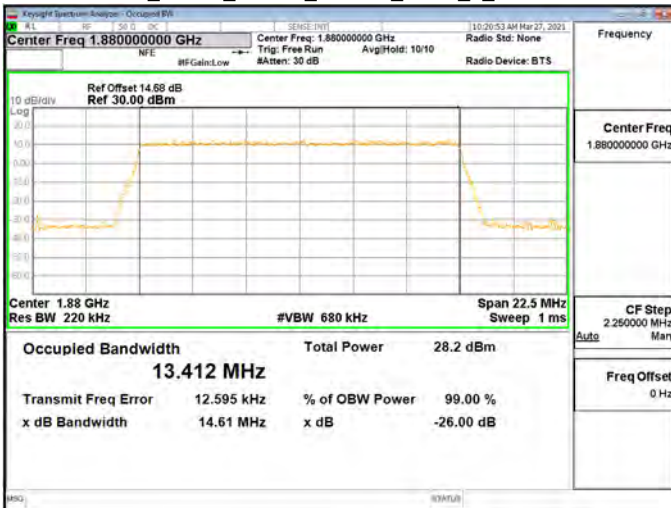
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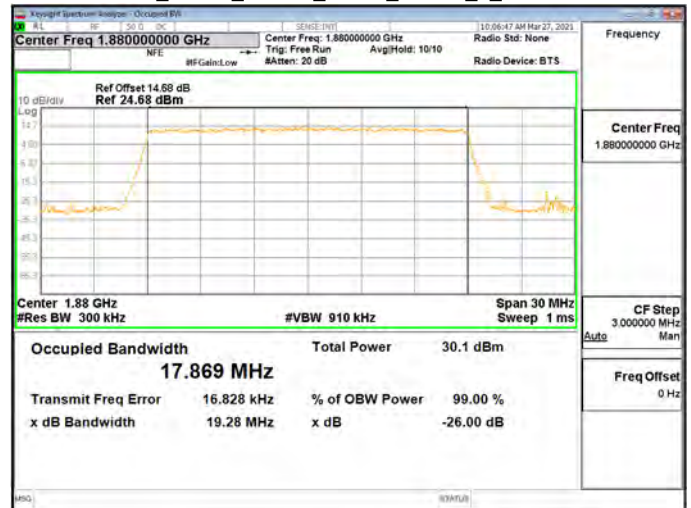
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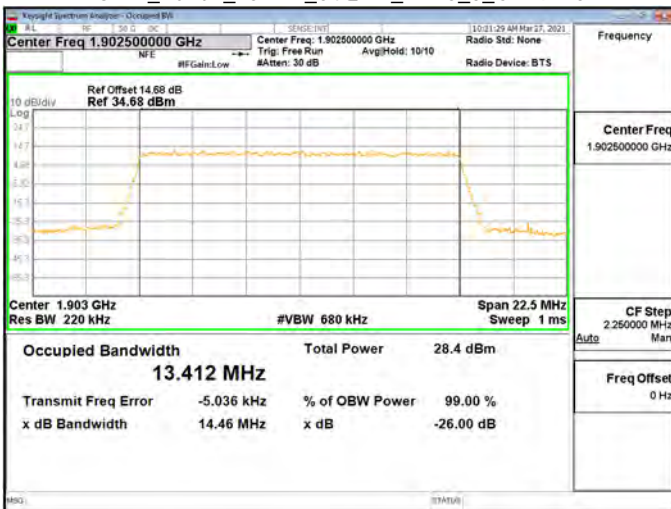
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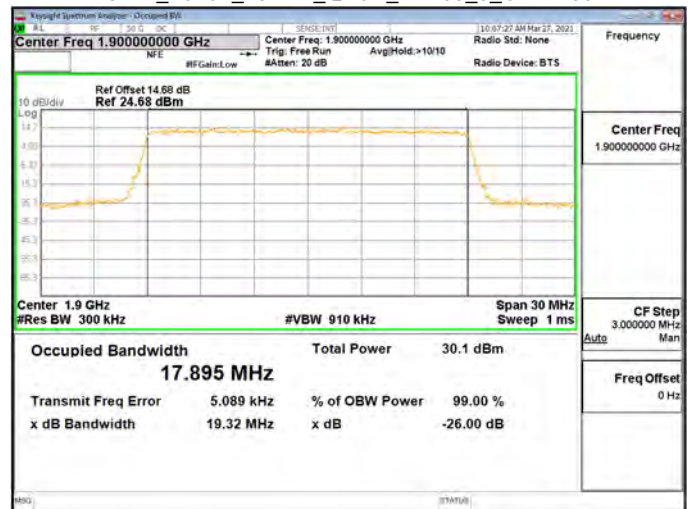
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OBW\_Band2\_15MHz\_64QAM\_RB75\_0\_CH19125



OBW\_Band2\_20MHz\_QPSK\_RB100\_0\_CH19100



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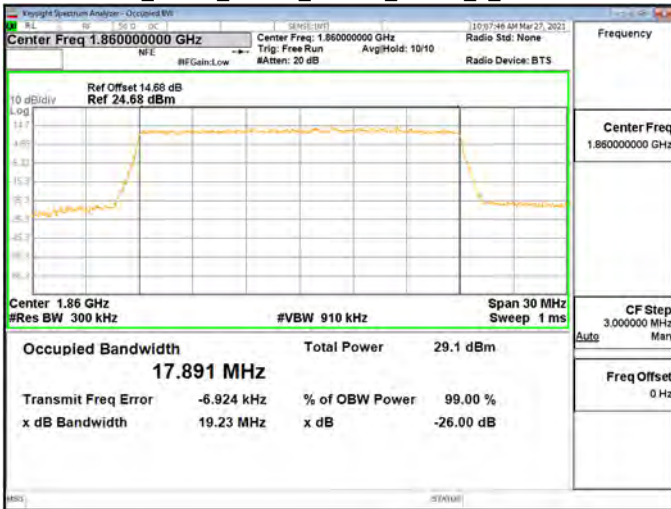
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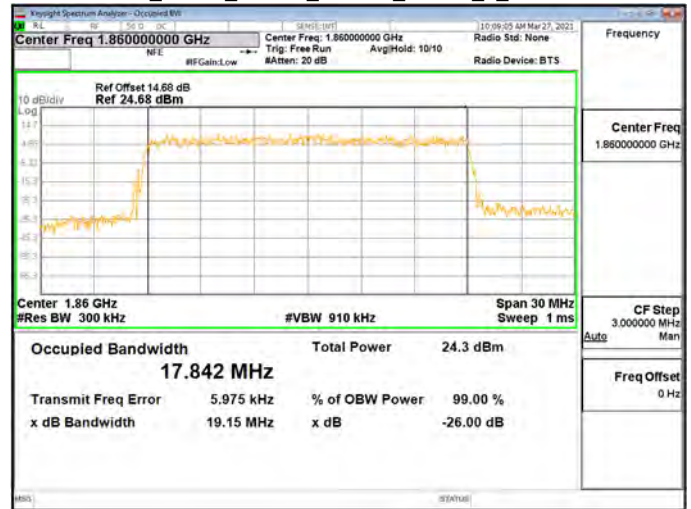
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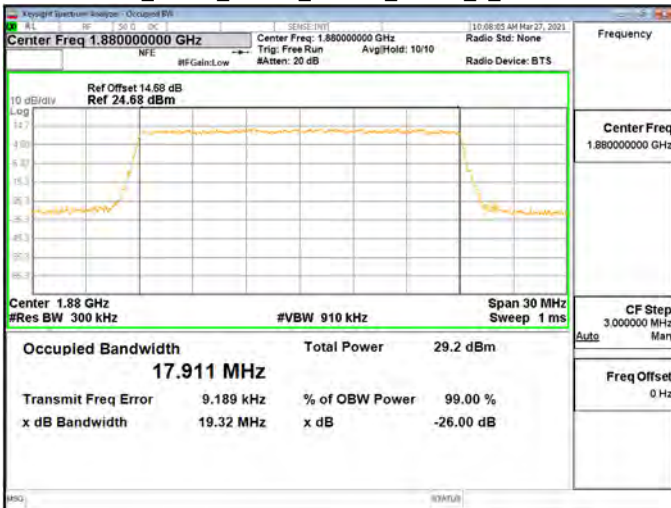
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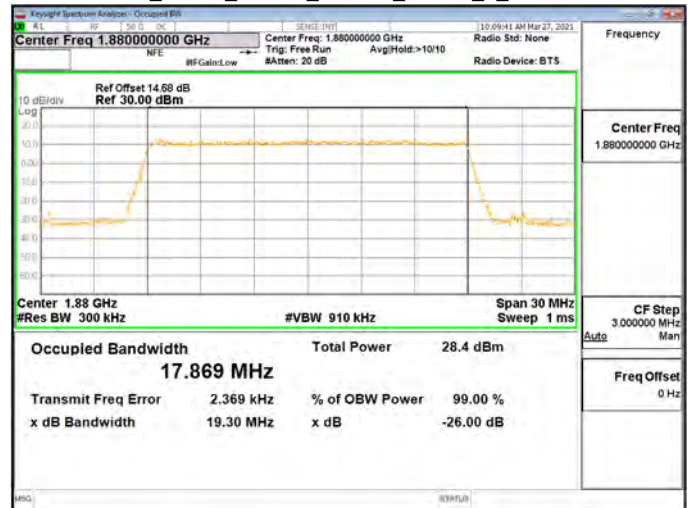
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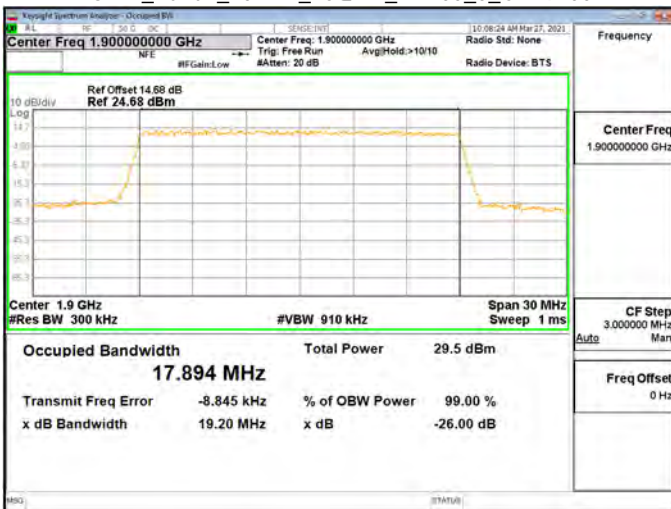
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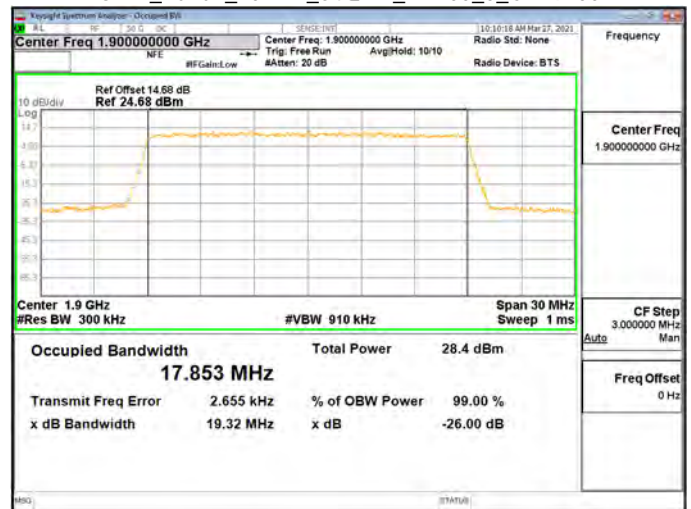
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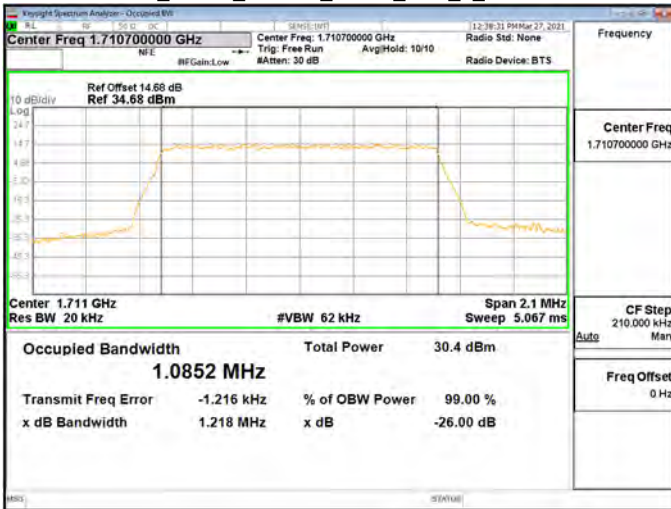


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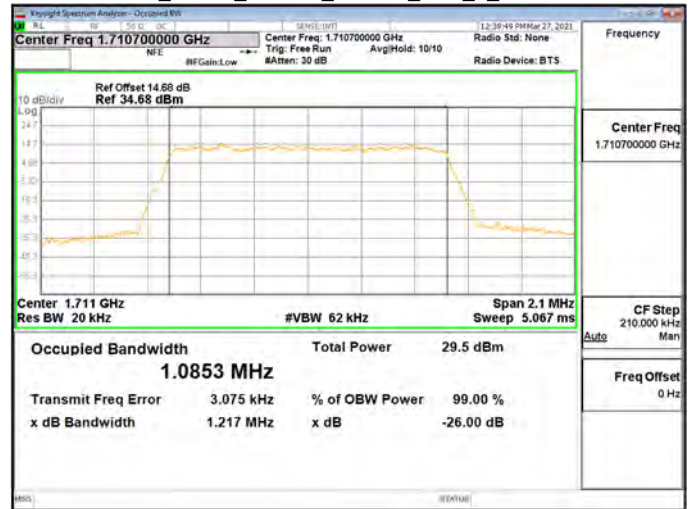
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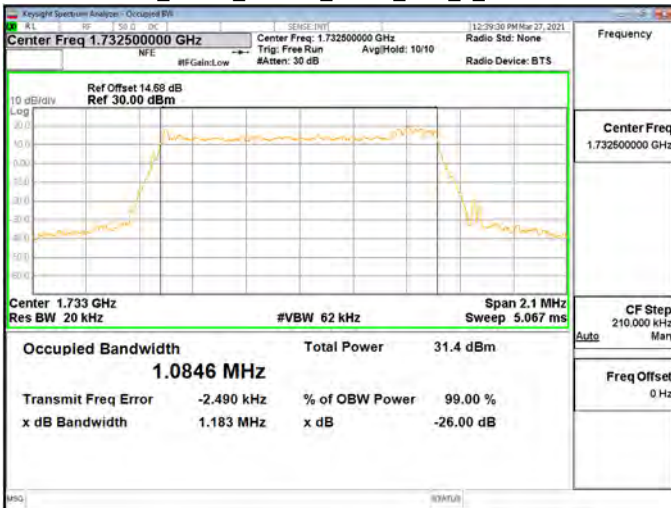
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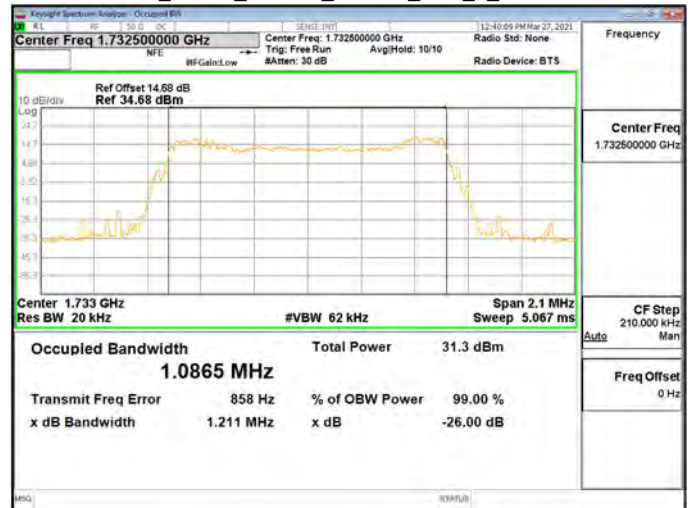
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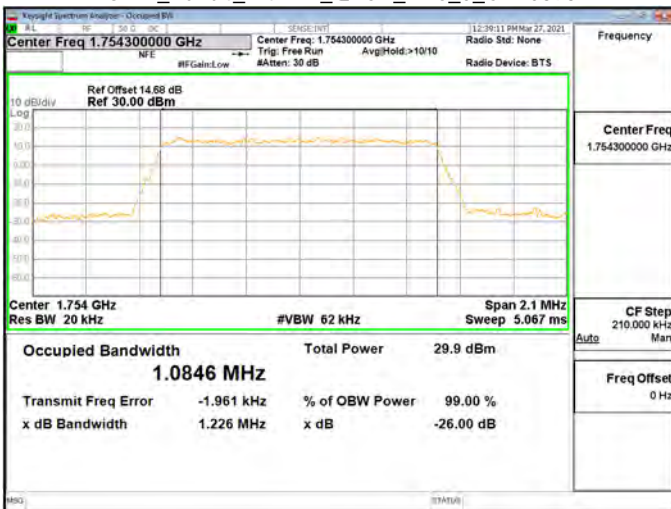
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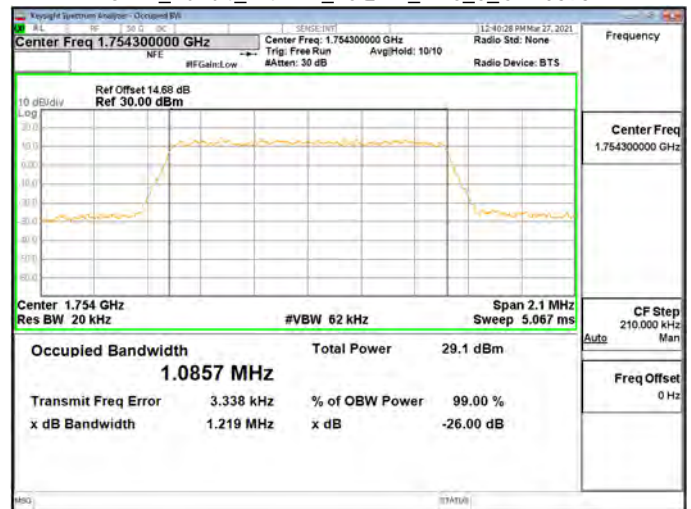
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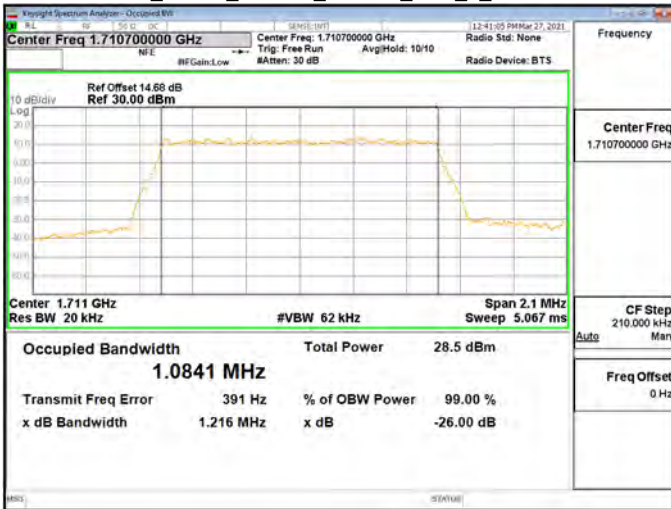
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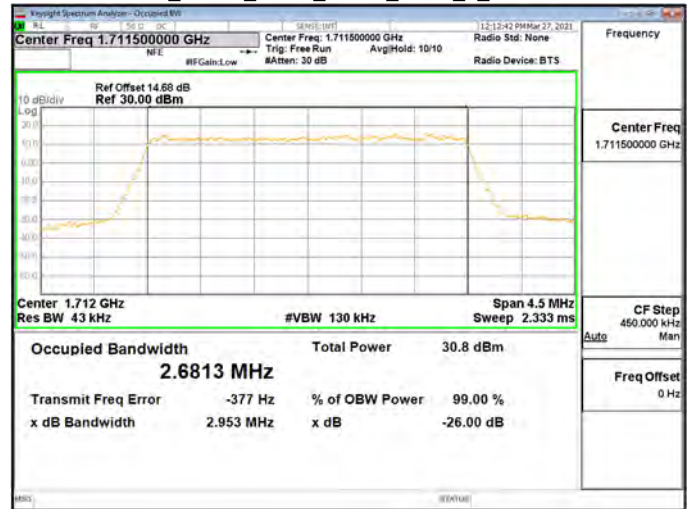
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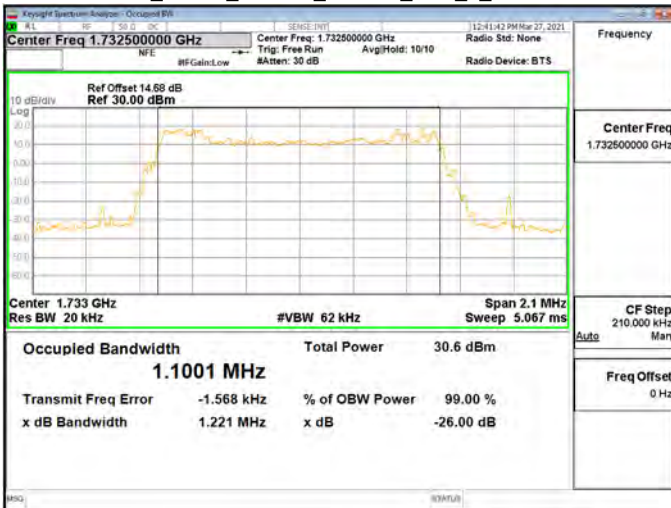
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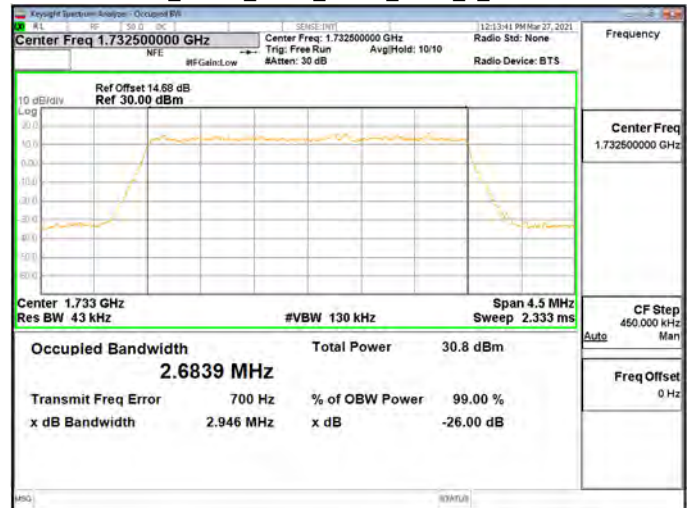
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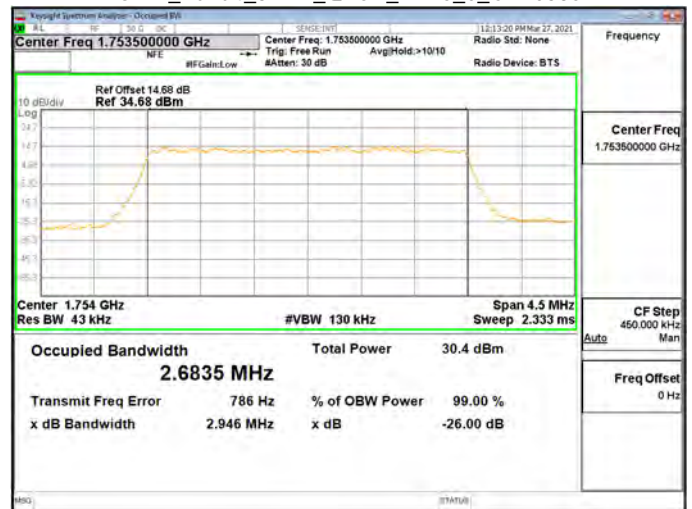
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OBW\_Band4\_1.4MHz\_64QAM\_RB6\_0\_CH20393



OBW\_Band4\_3MHz\_QPSK\_RB15\_0\_CH20385



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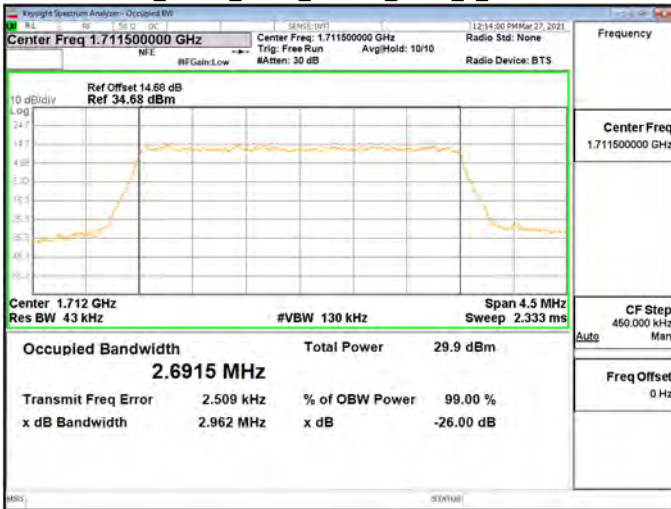
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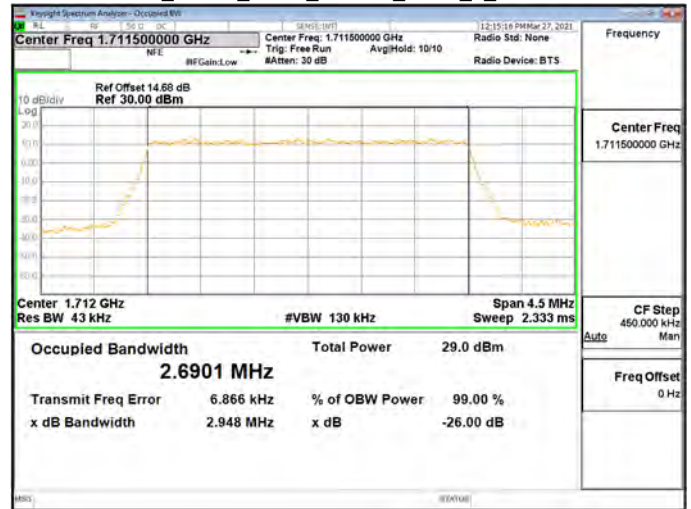
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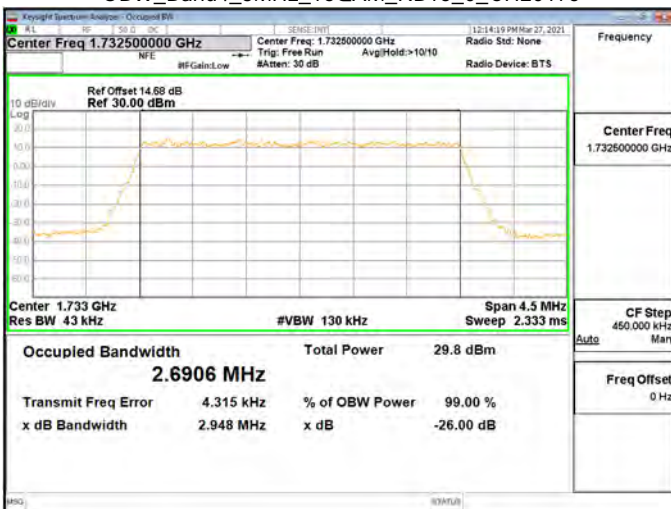
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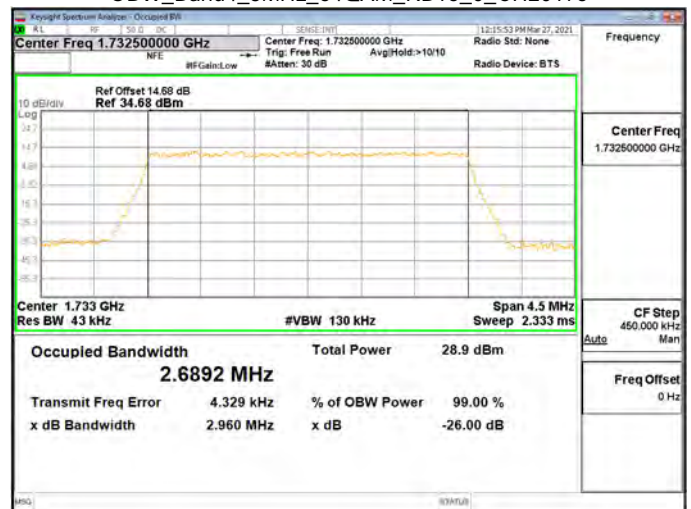
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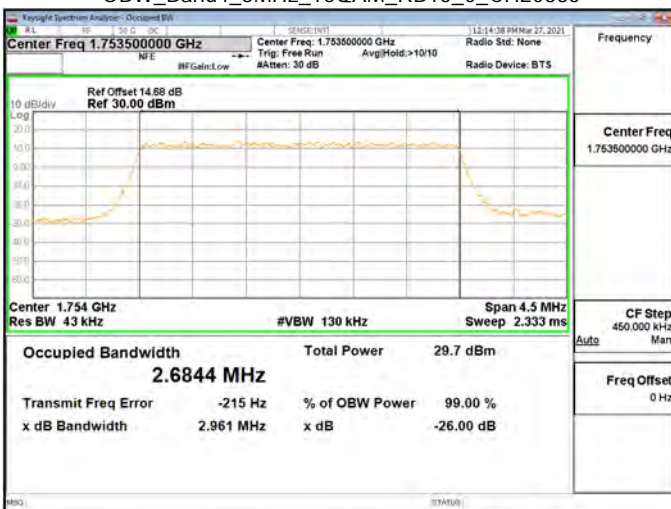
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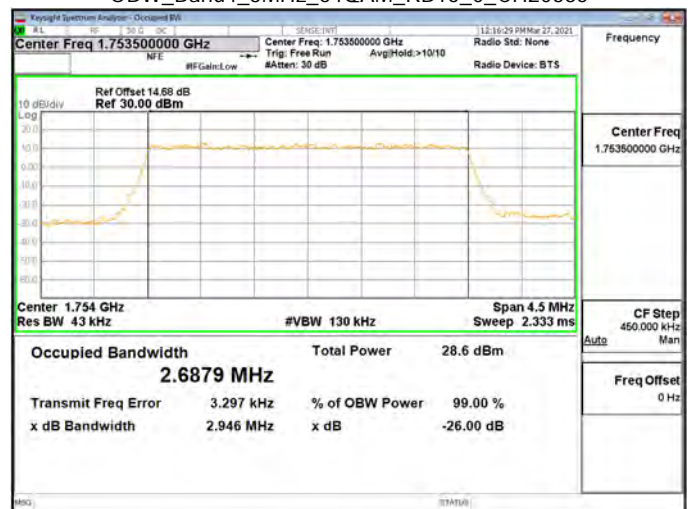
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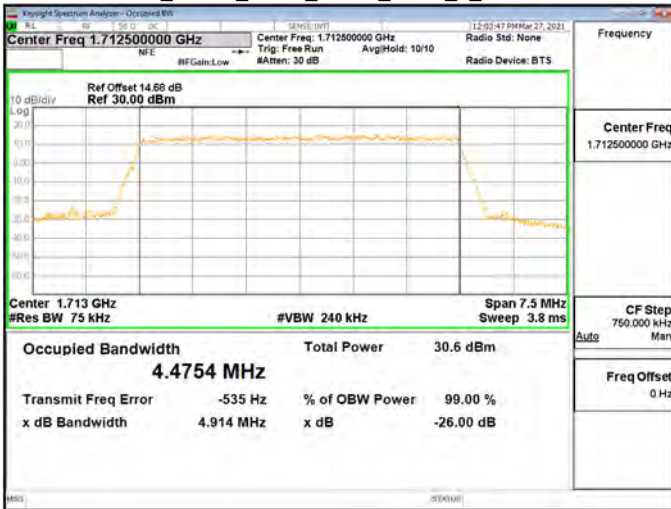
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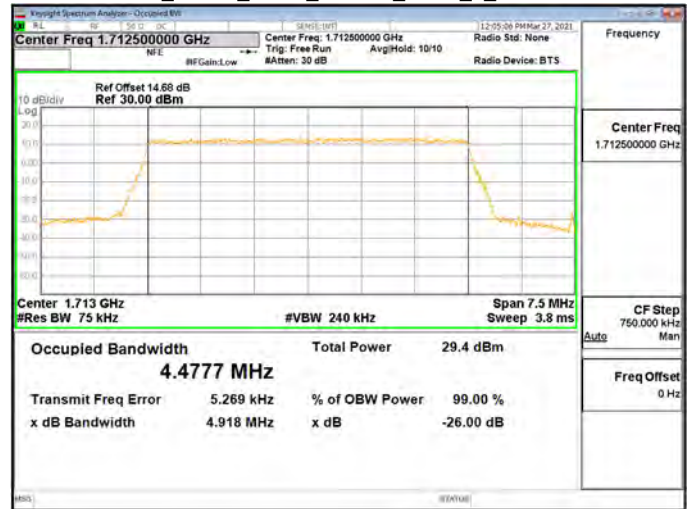
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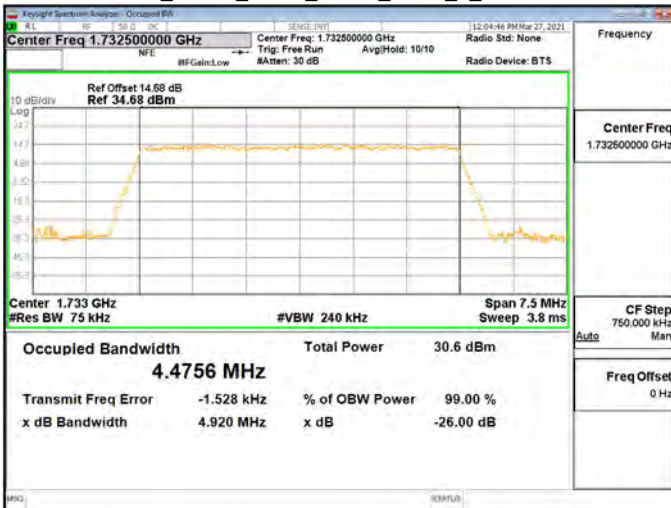
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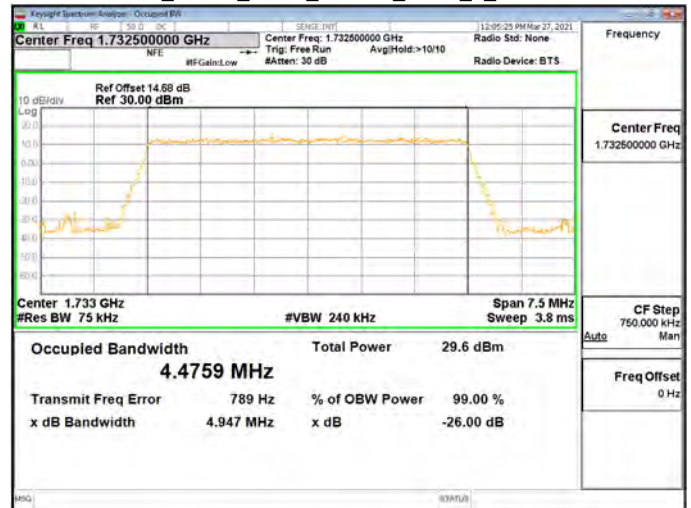
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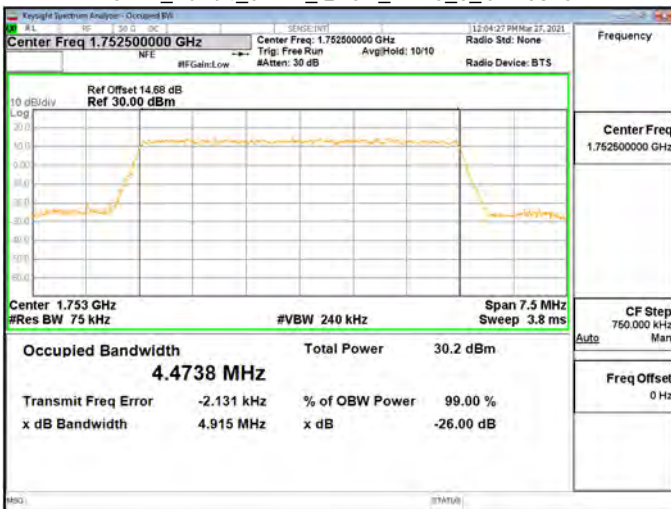
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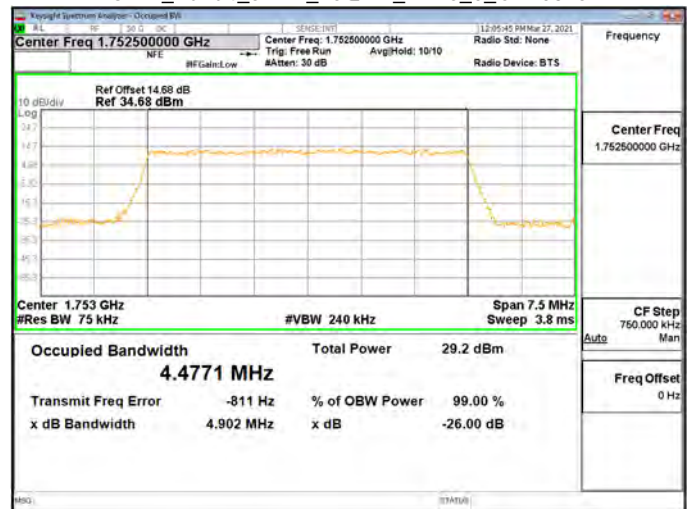
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OBW\_Band4\_5MHz\_QPSK\_RB25\_0\_CH20375



OBW\_Band4\_5MHz\_16QAM\_RB25\_0\_CH20375



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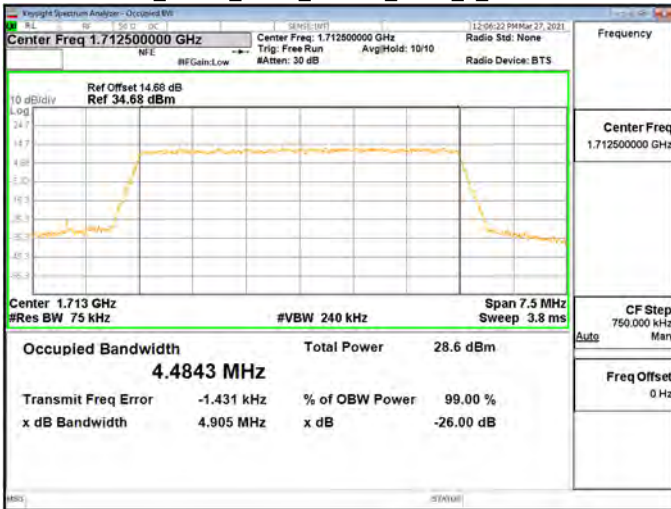
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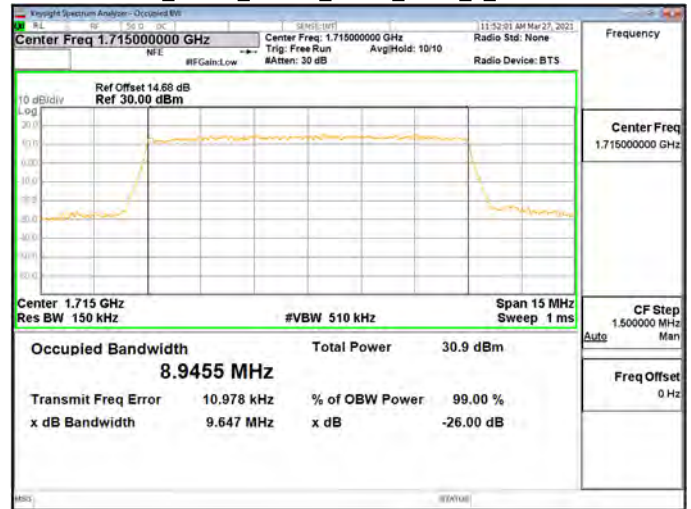
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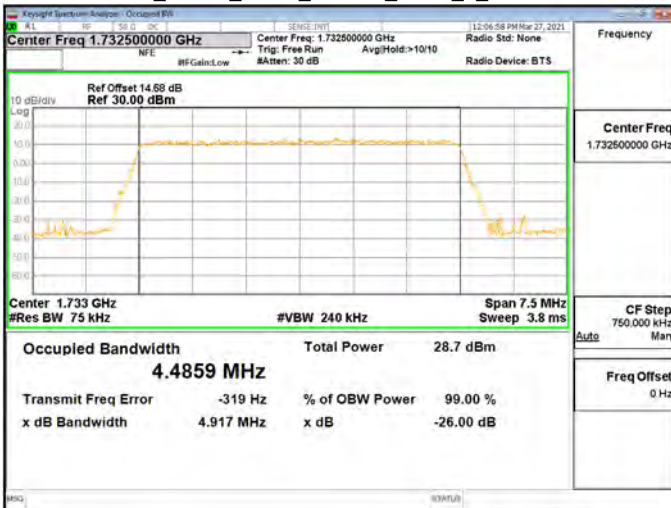
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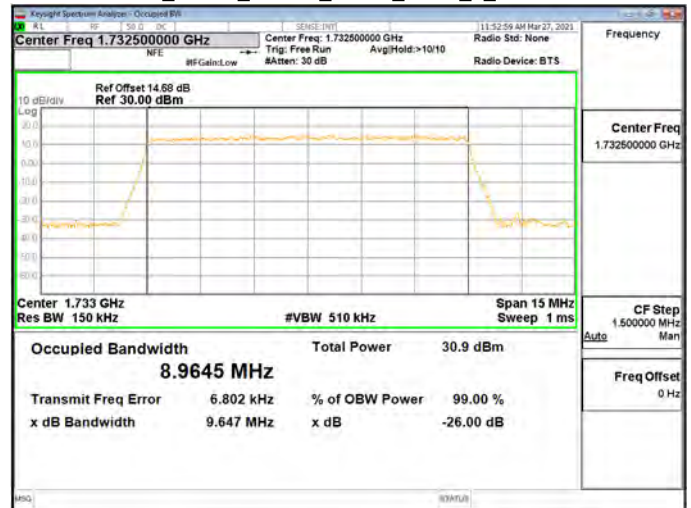
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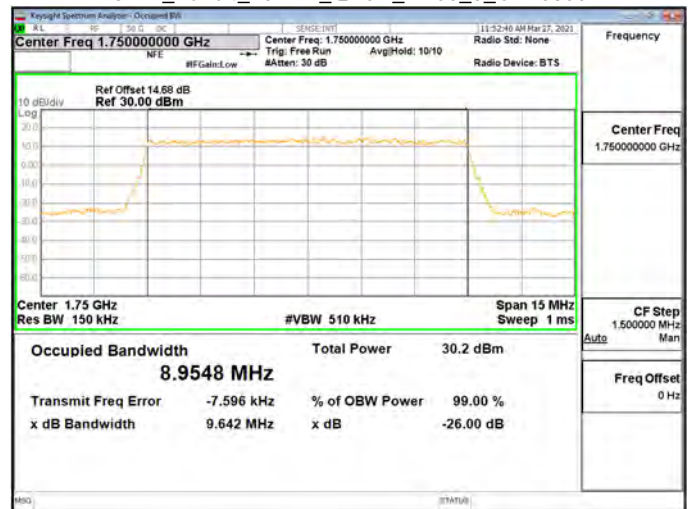
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OBW\_Band4\_5MHz\_64QAM\_RB25\_0\_CH20375



OBW\_Band4\_10MHz\_QPSK\_RB50\_0\_CH20350



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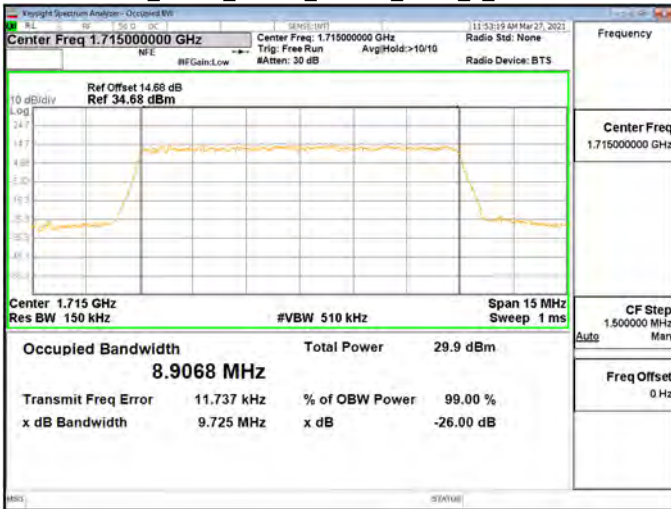
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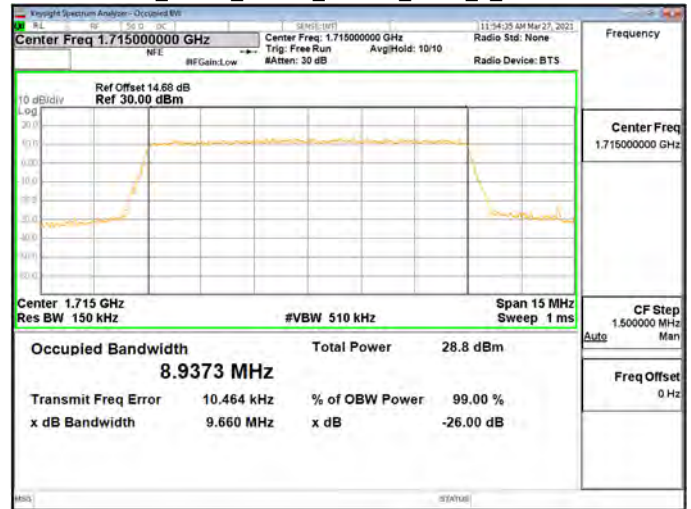
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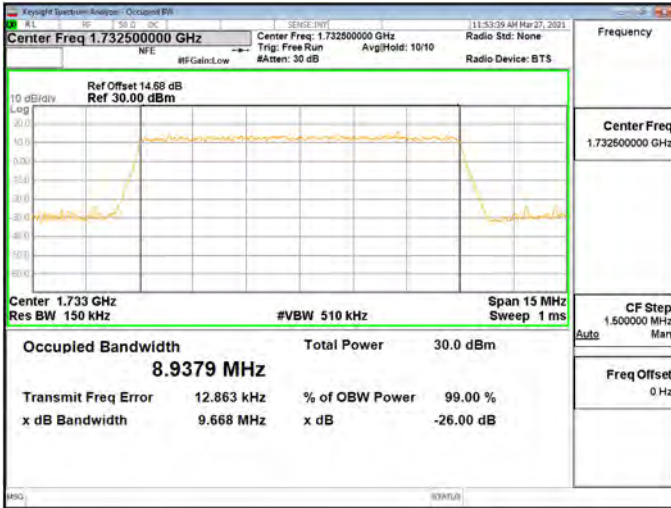
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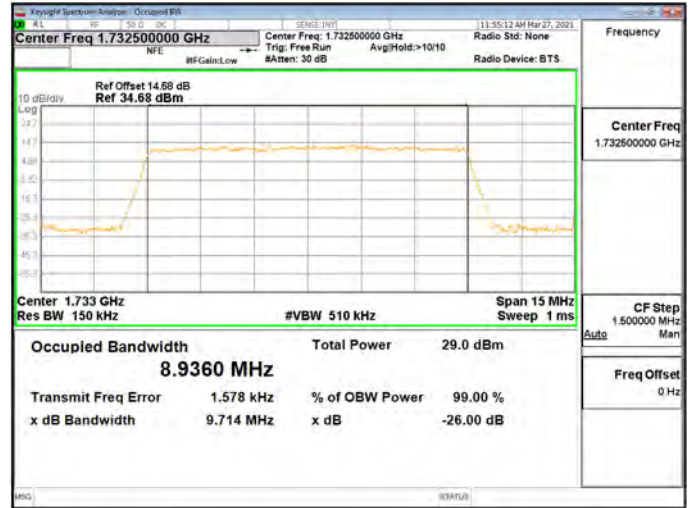
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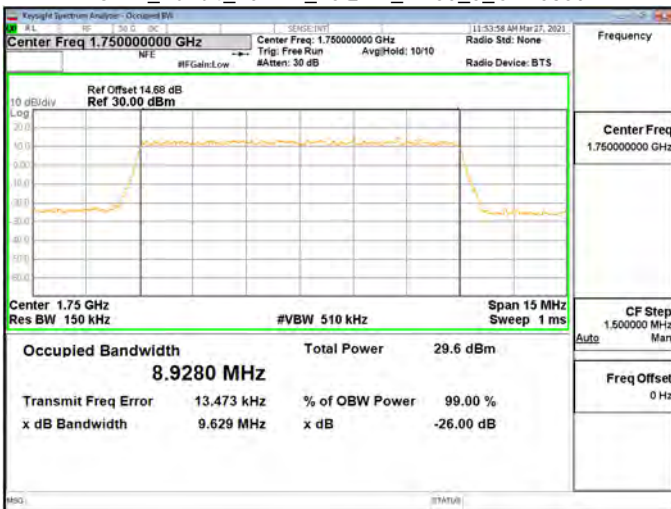
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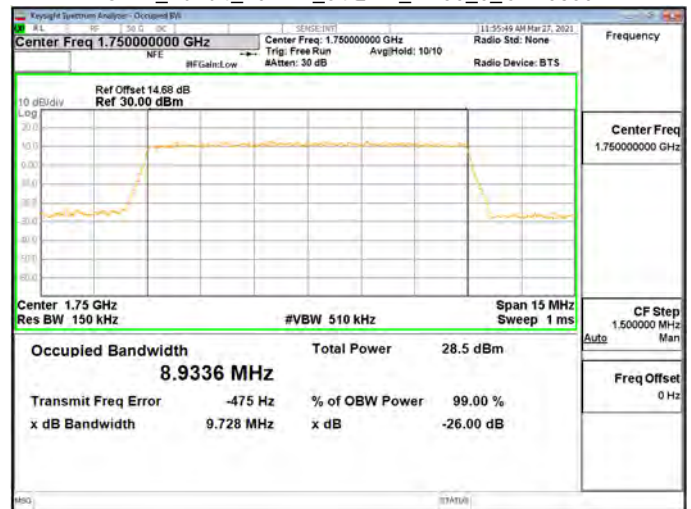
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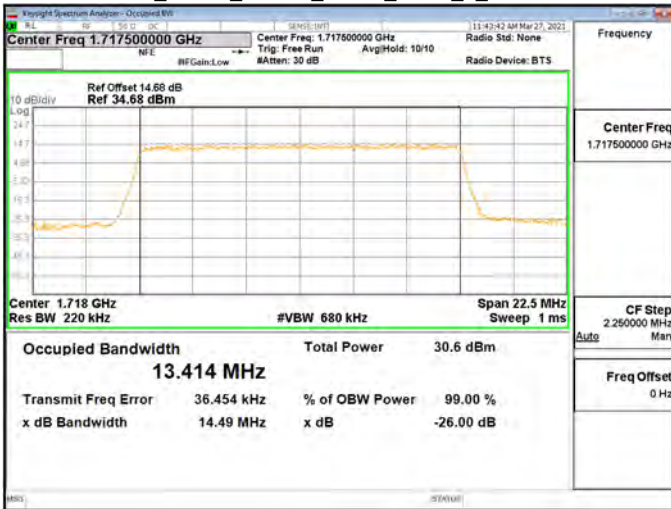
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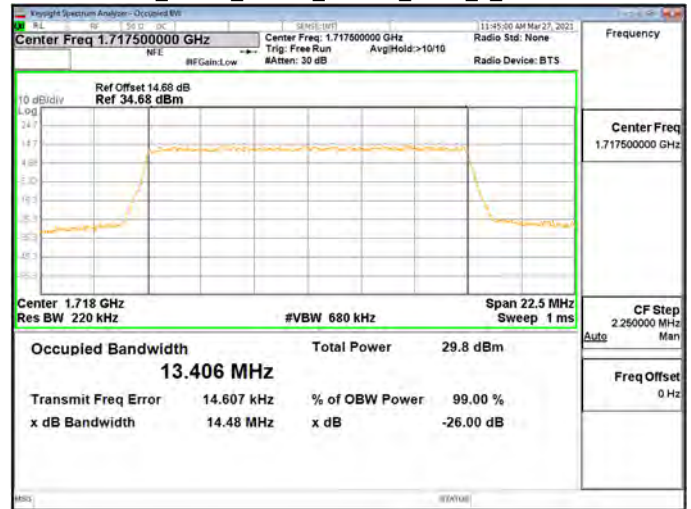
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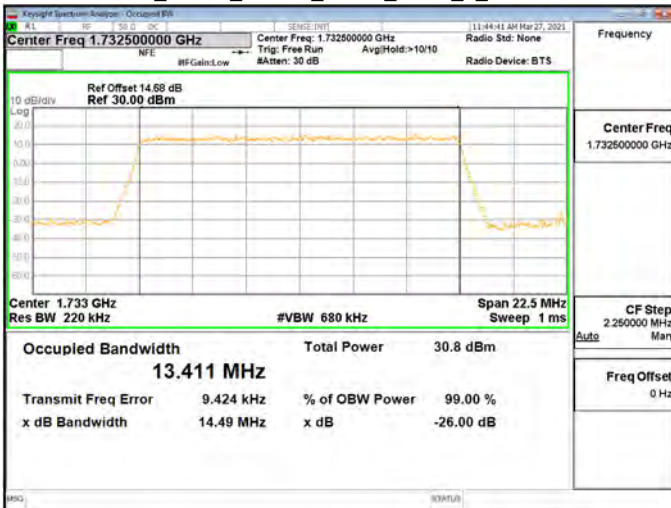
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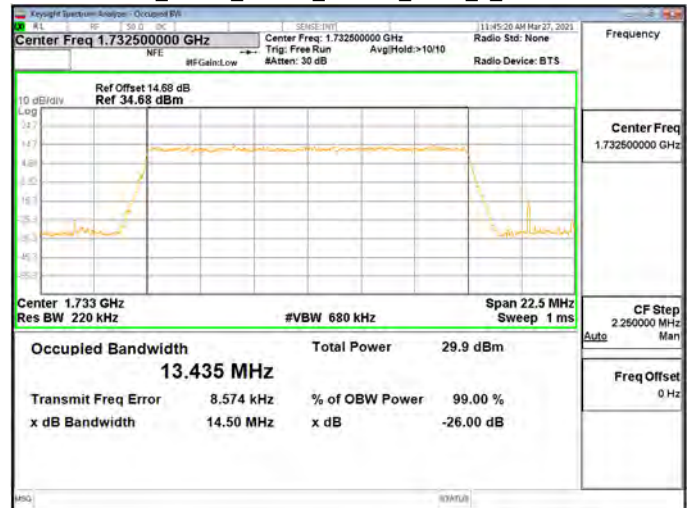
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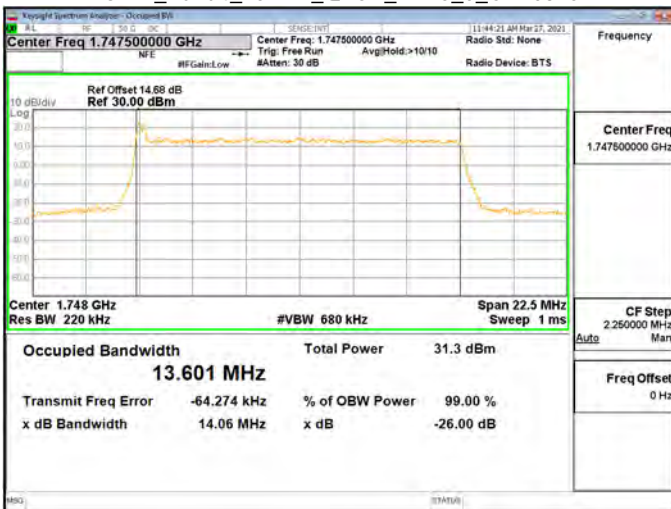
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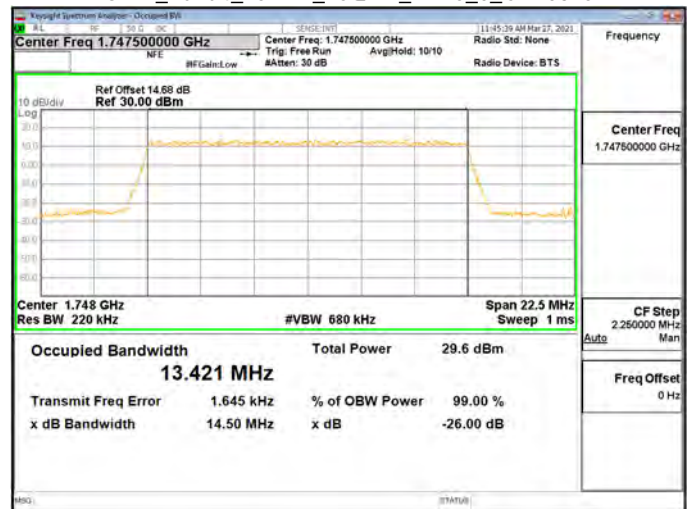
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OBW\_Band4\_15MHz\_16QAM\_RB75\_0\_CH20325



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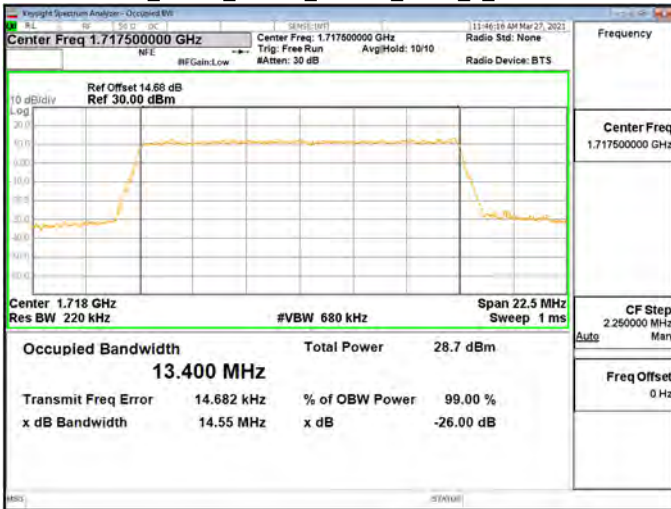
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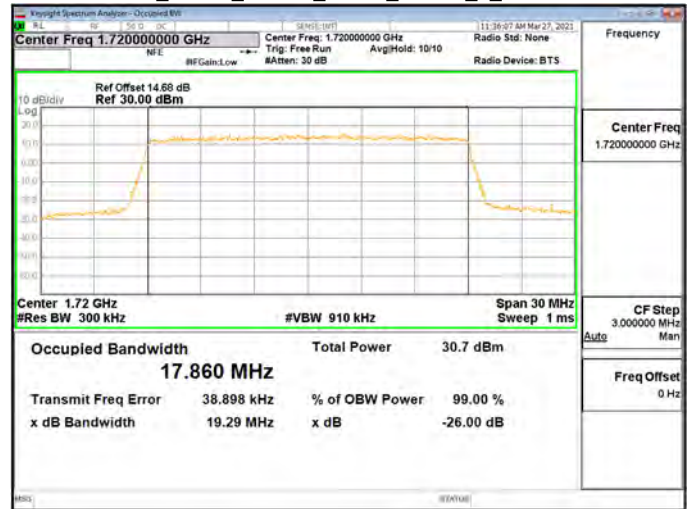
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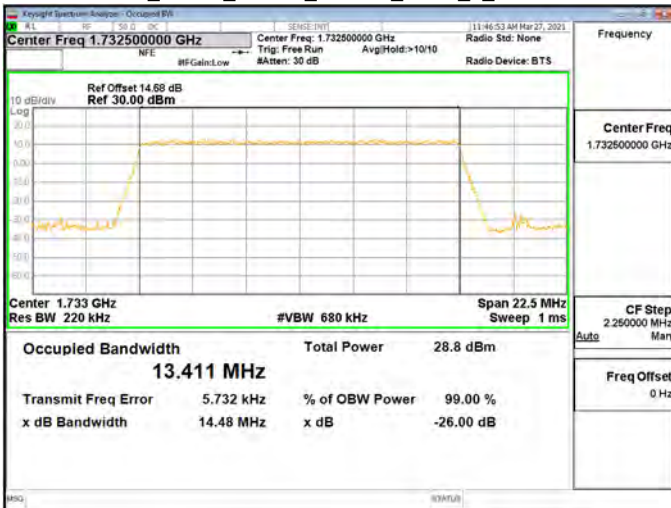
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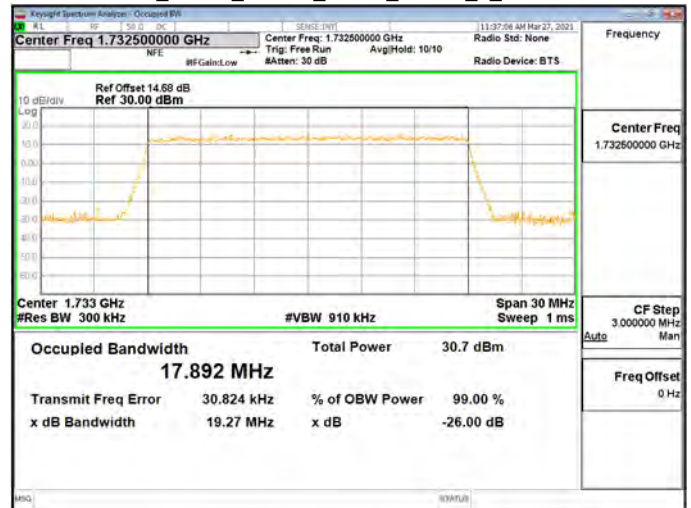
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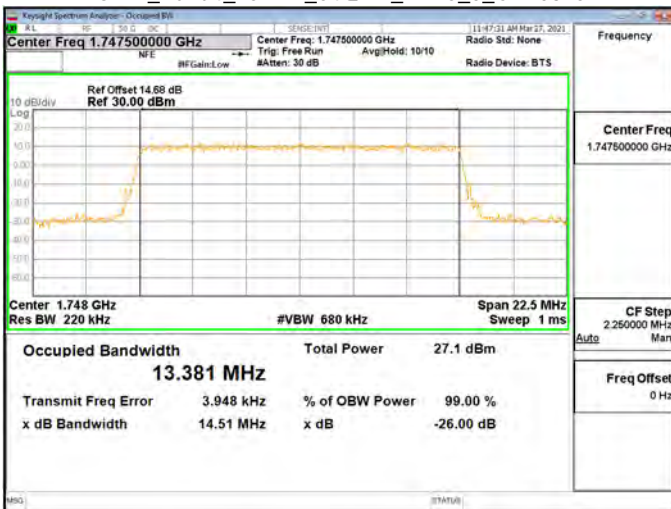
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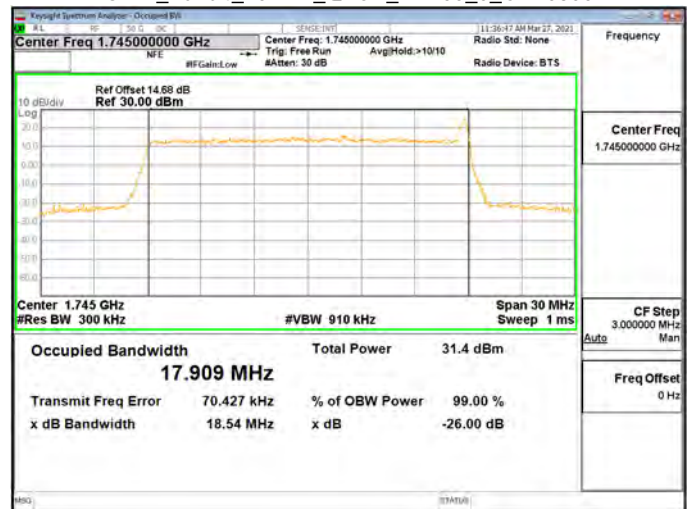
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OBW\_Band4\_15MHz\_64QAM\_RB75\_0\_CH20325



OBW\_Band4\_20MHz\_QPSK\_RB100\_0\_CH20300



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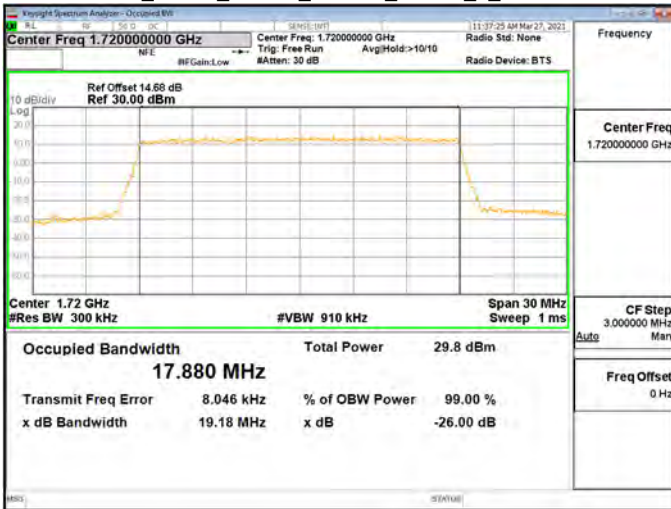
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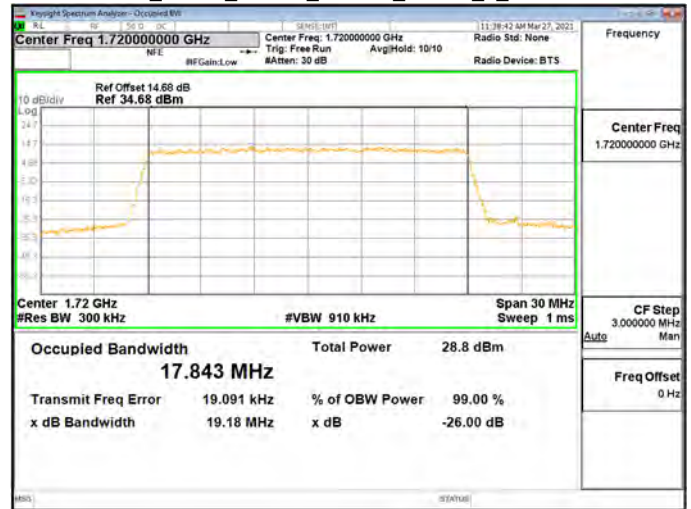
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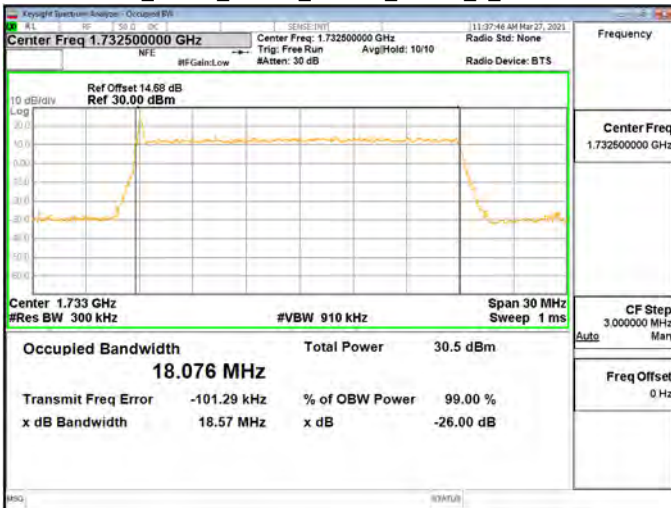
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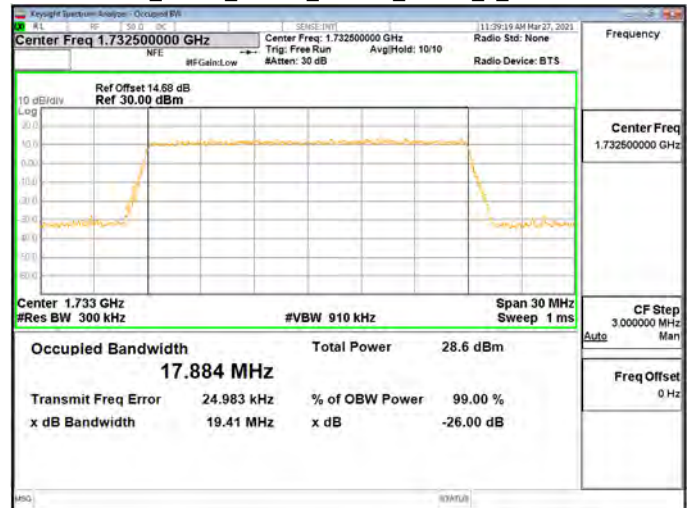
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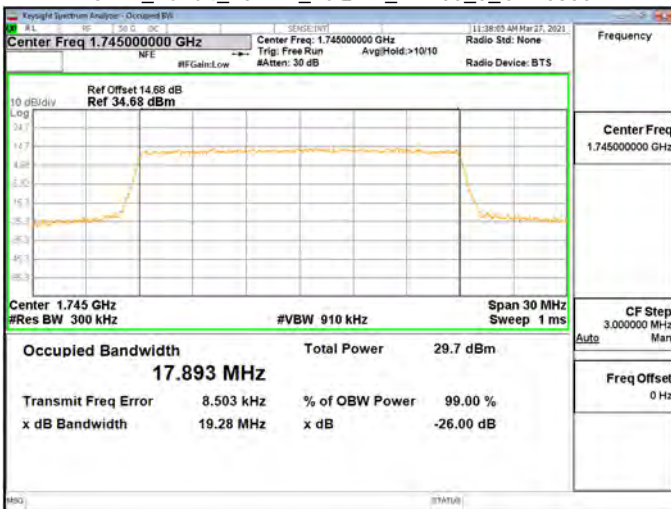
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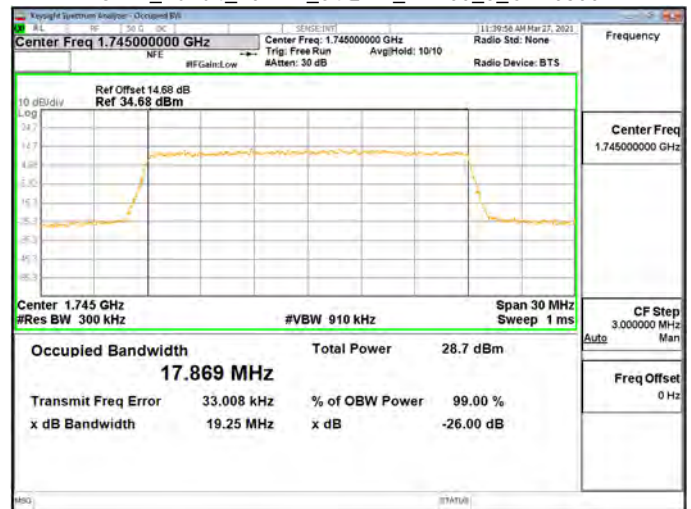
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OBW\_Band4\_20MHz\_16QAM\_RB100\_0\_CH20300



OBW\_Band4\_20MHz\_64QAM\_RB100\_0\_CH20300



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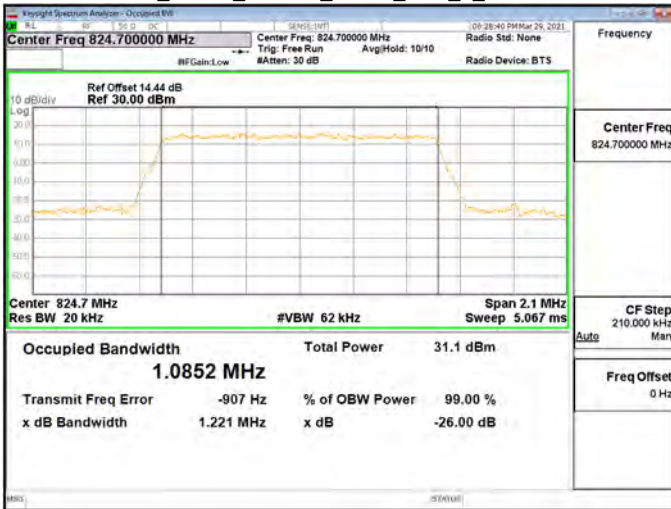
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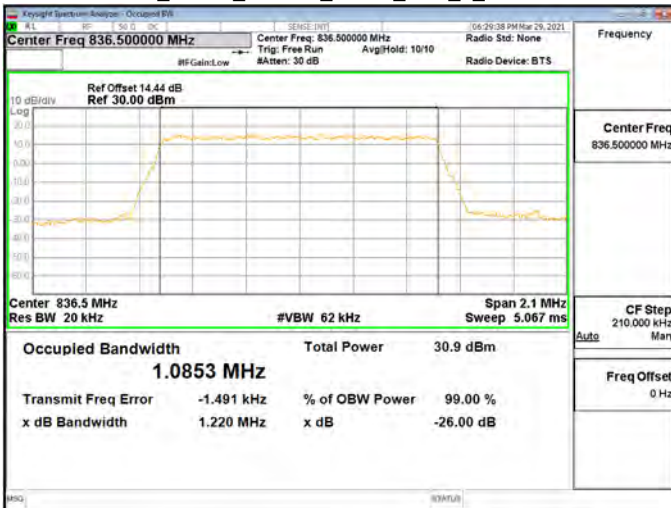
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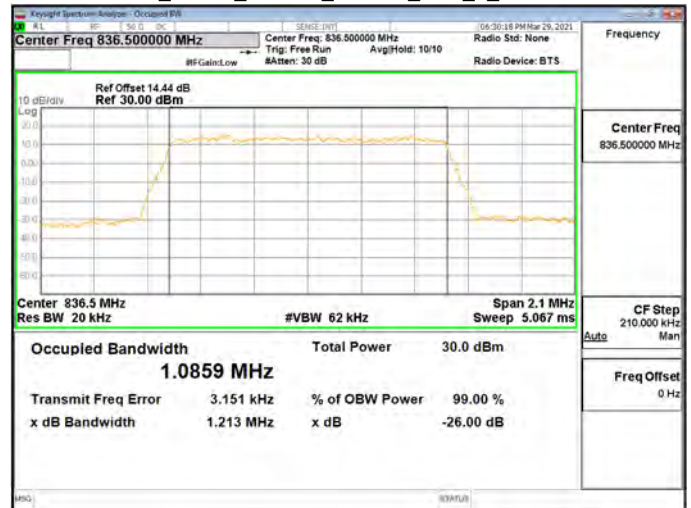
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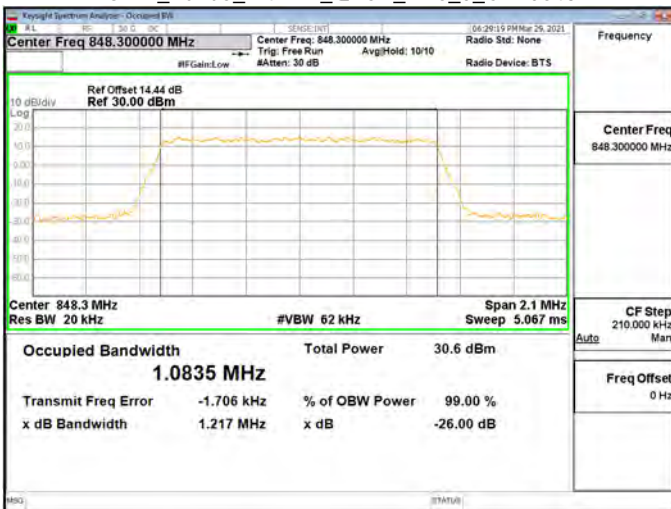
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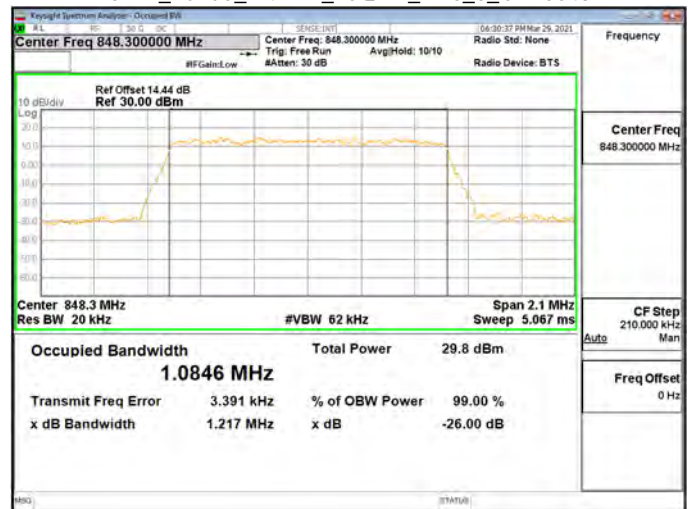
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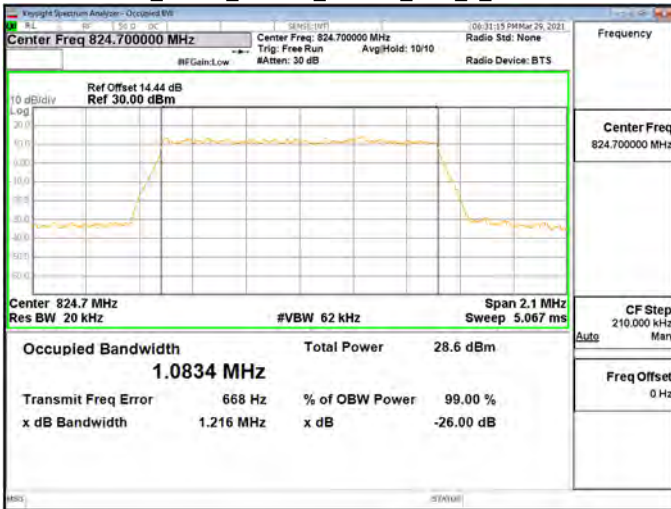
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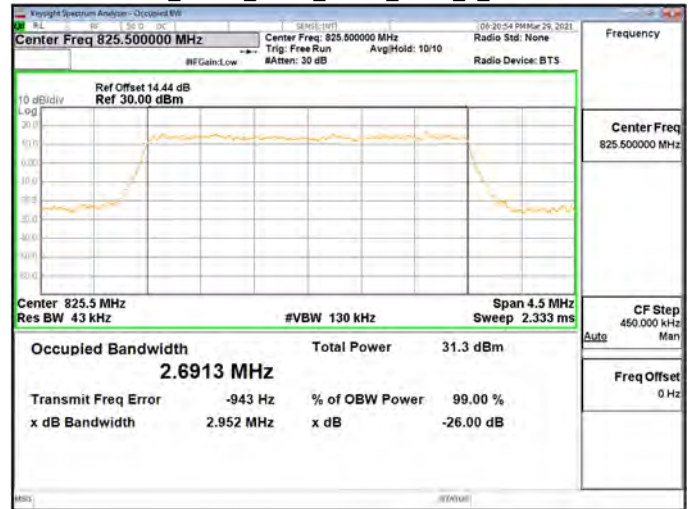
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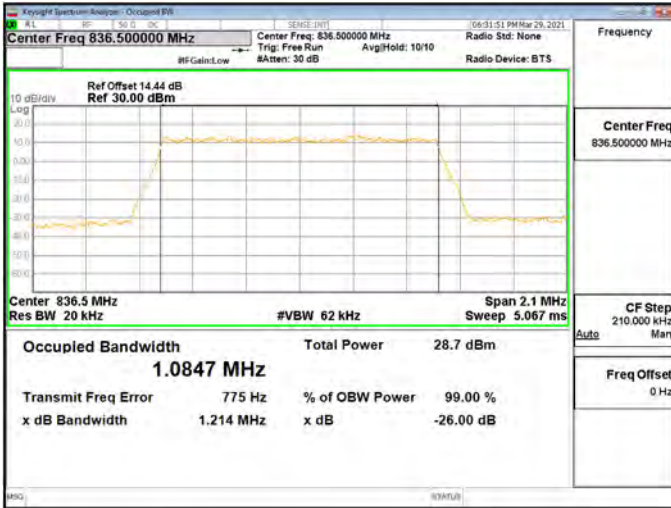
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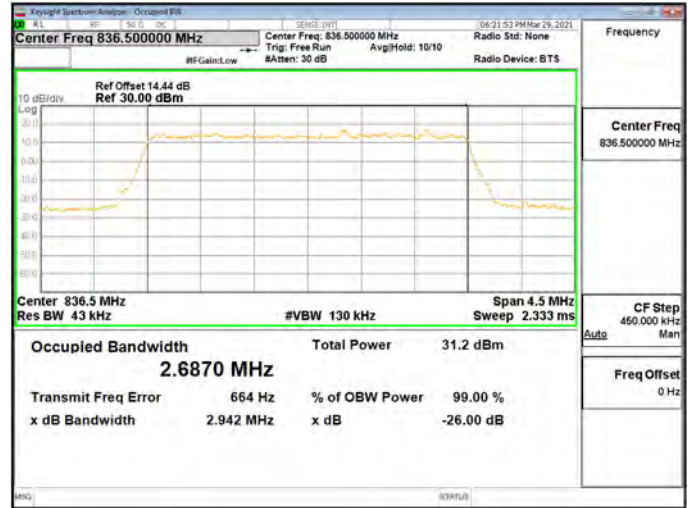
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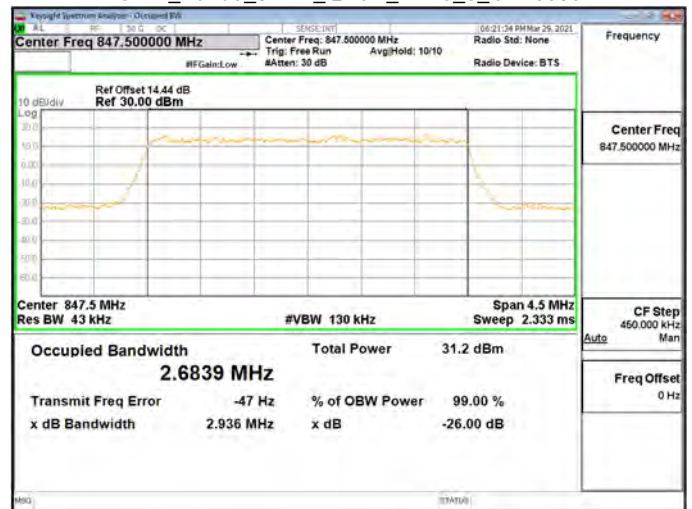
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OBW\_Band5\_3MHz\_QPSK\_RB15\_0\_CH20635



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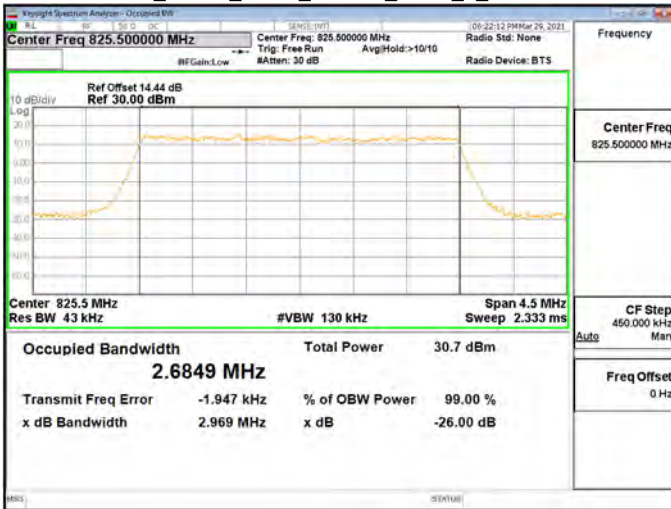
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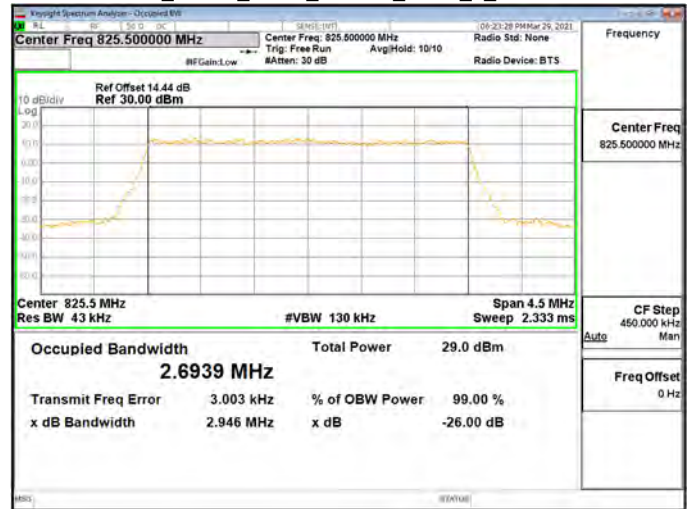
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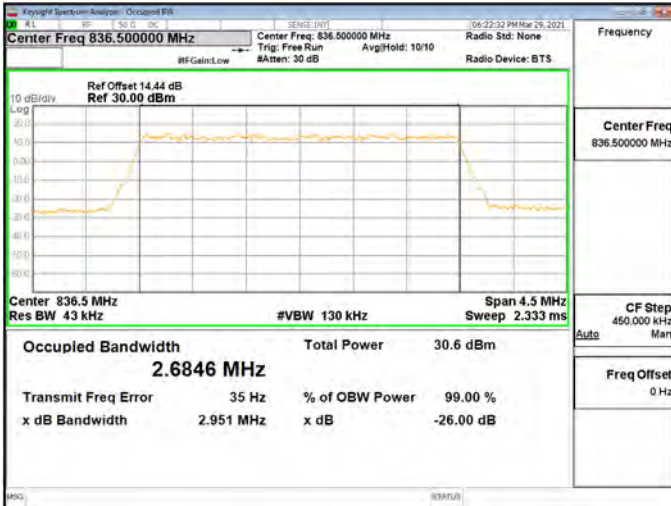
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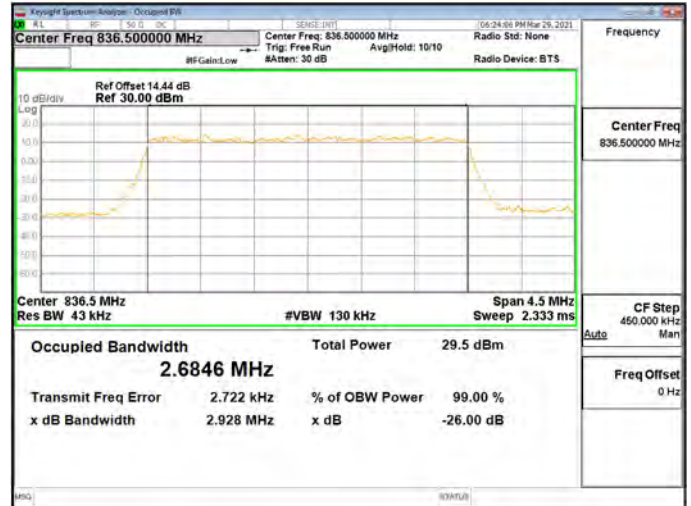
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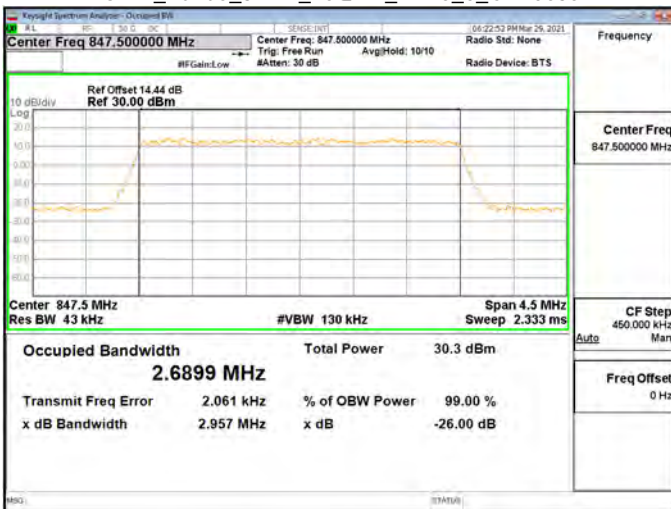
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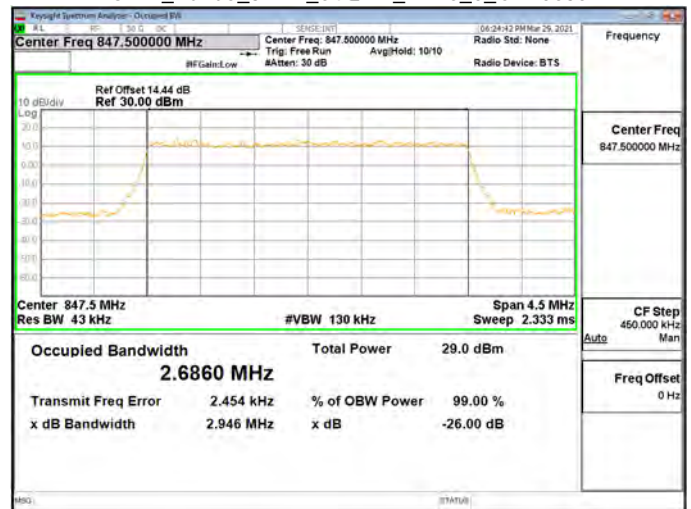
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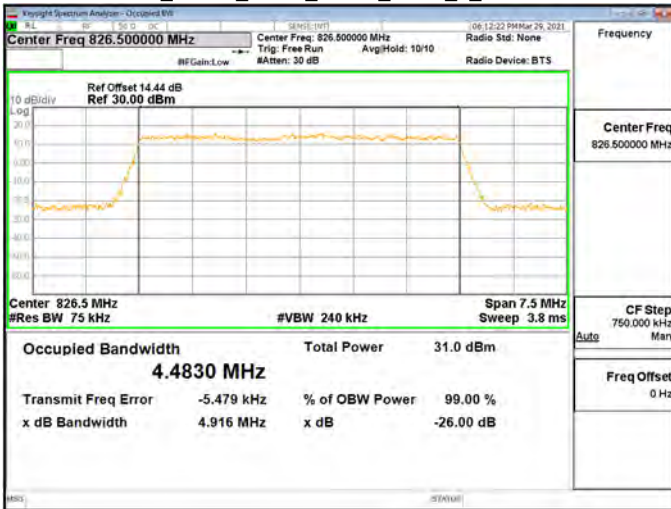
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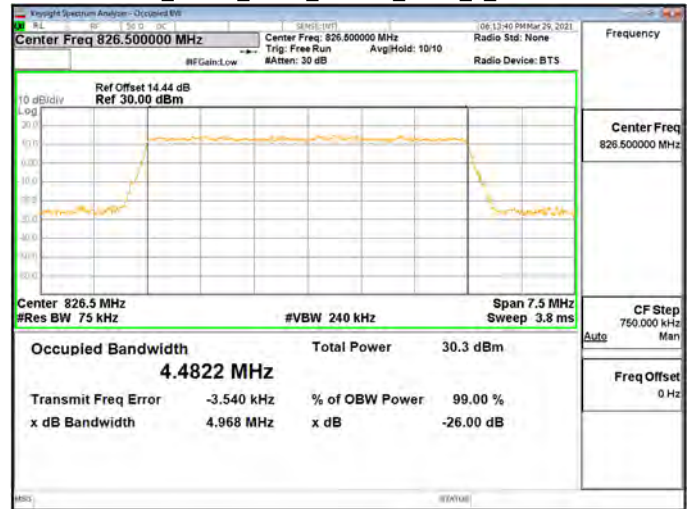
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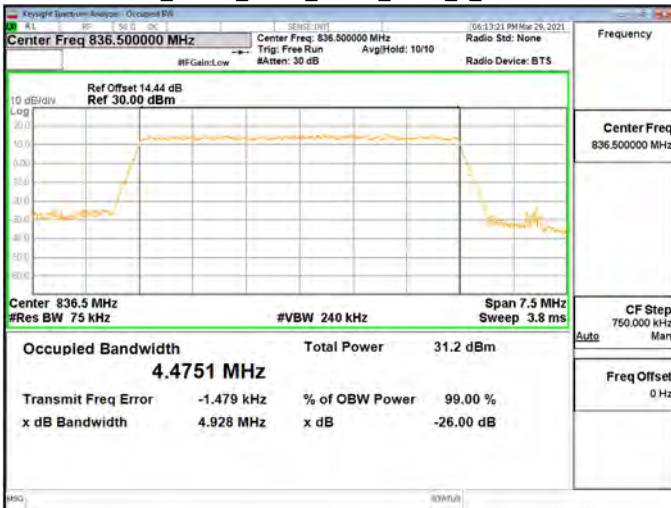
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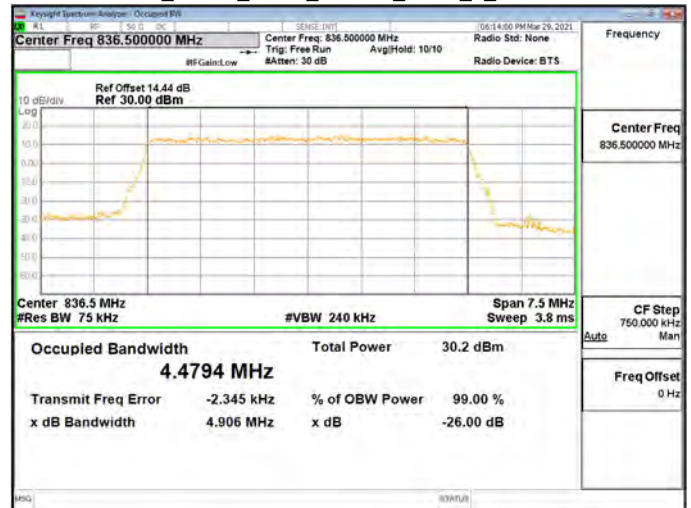
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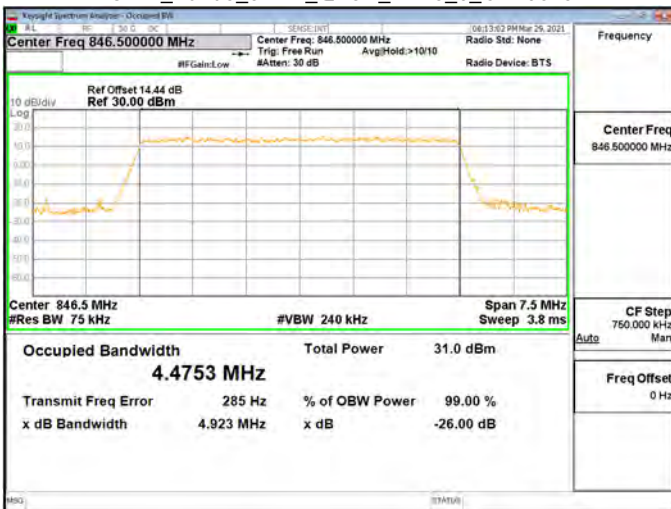
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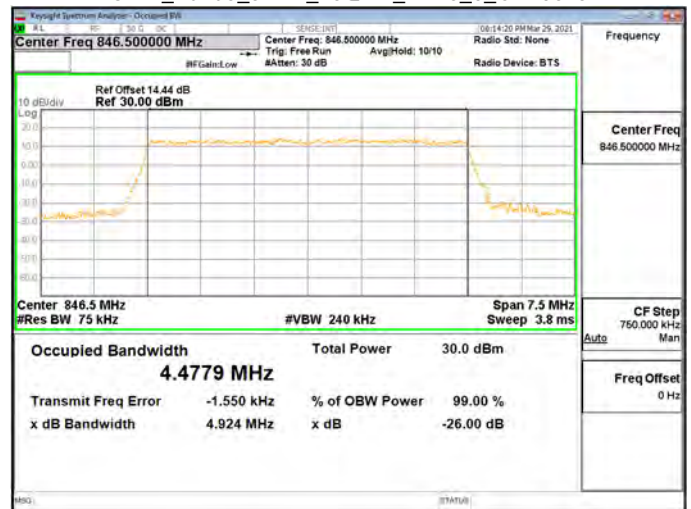
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OBW\_Band5\_5MHz\_QPSK\_RB25\_0\_CH20625



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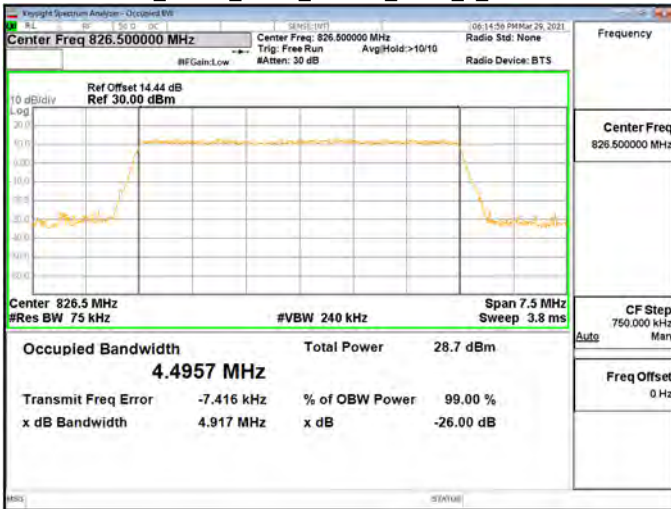
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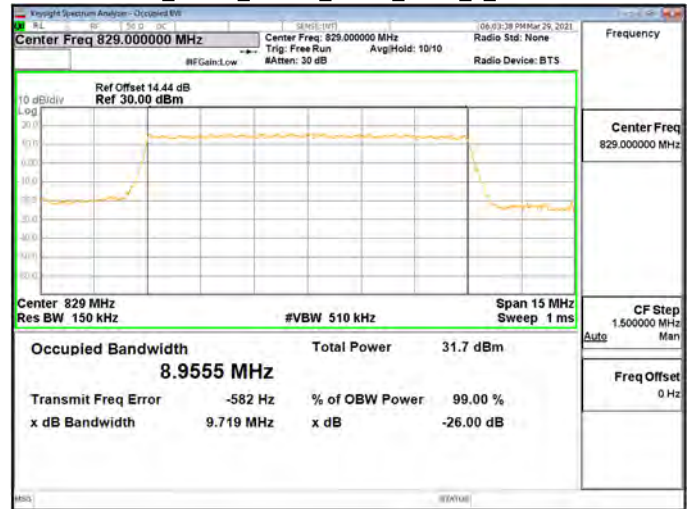
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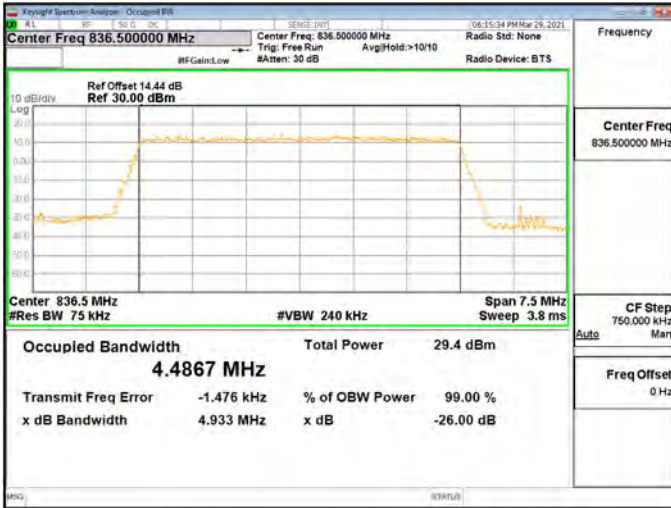
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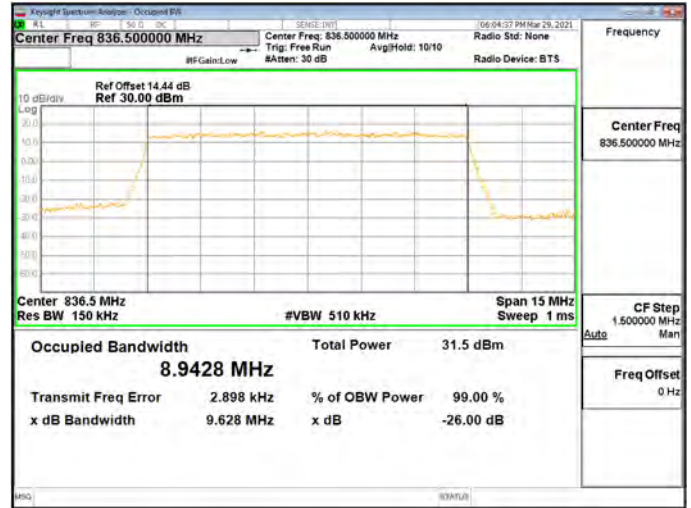
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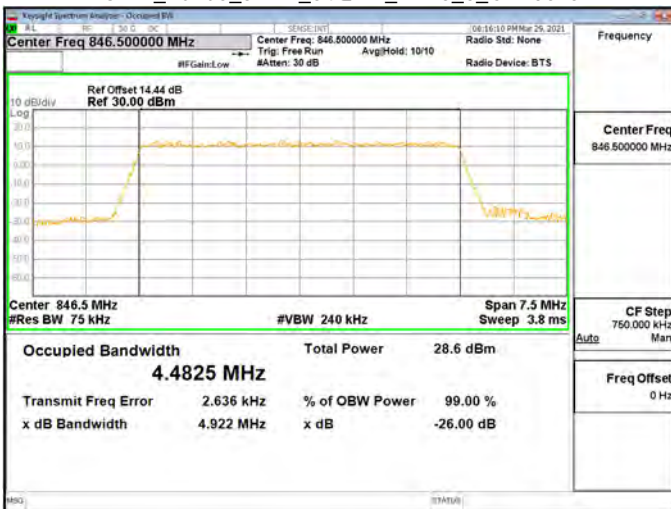
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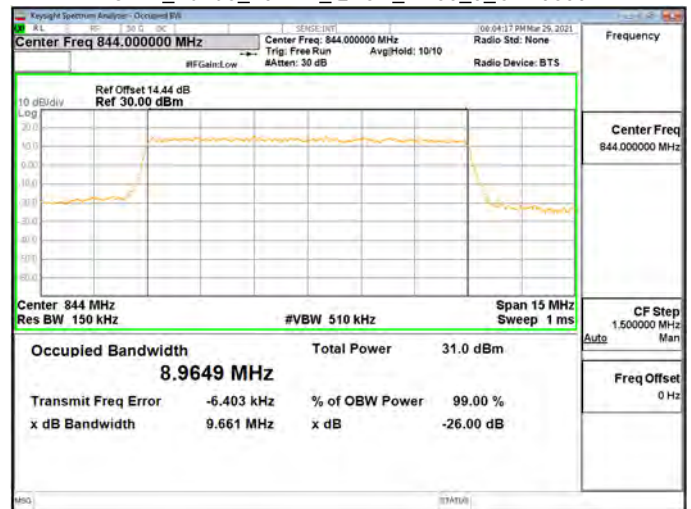
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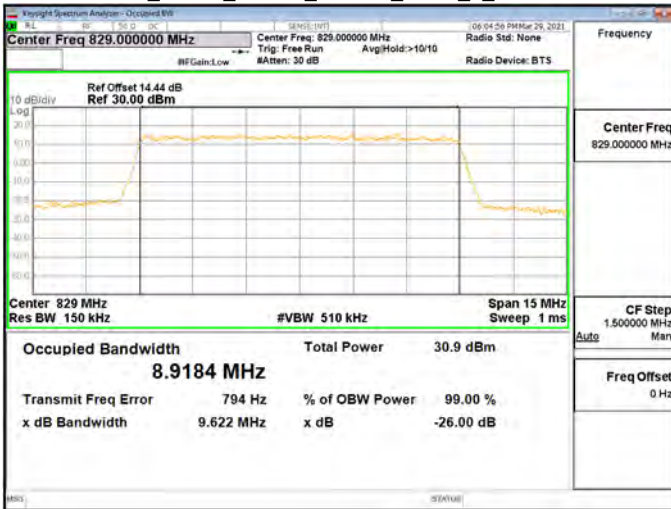


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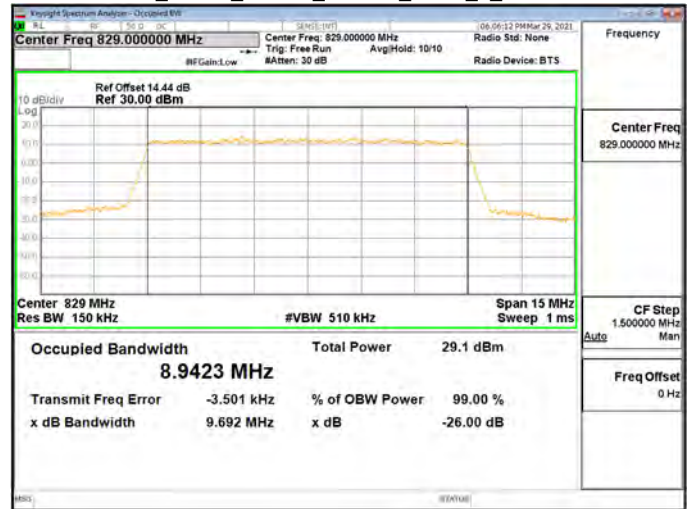
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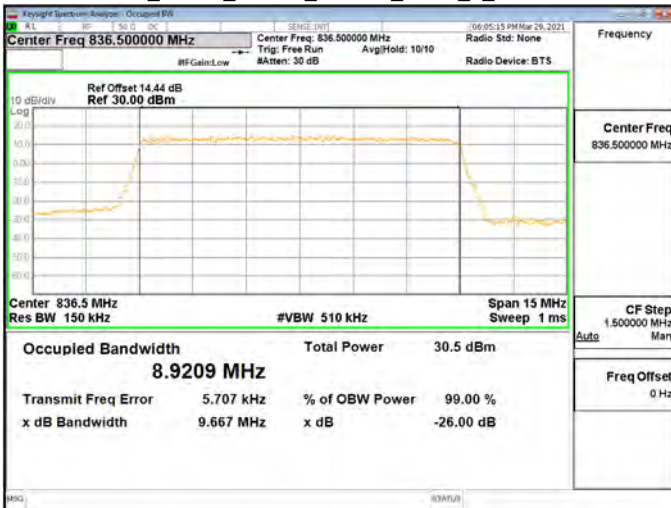
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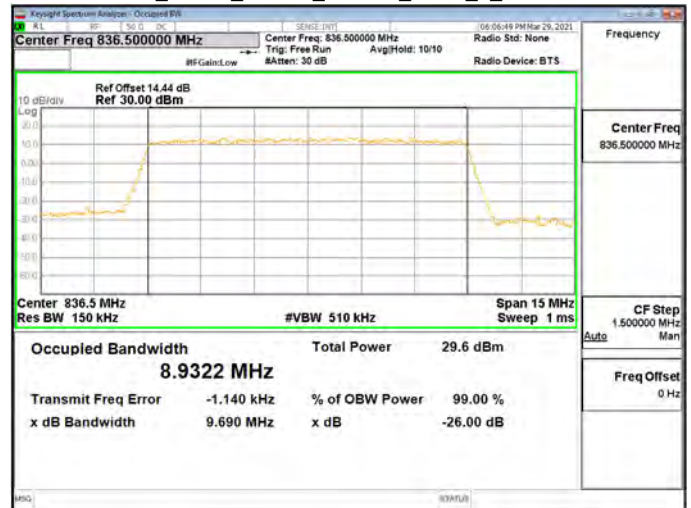
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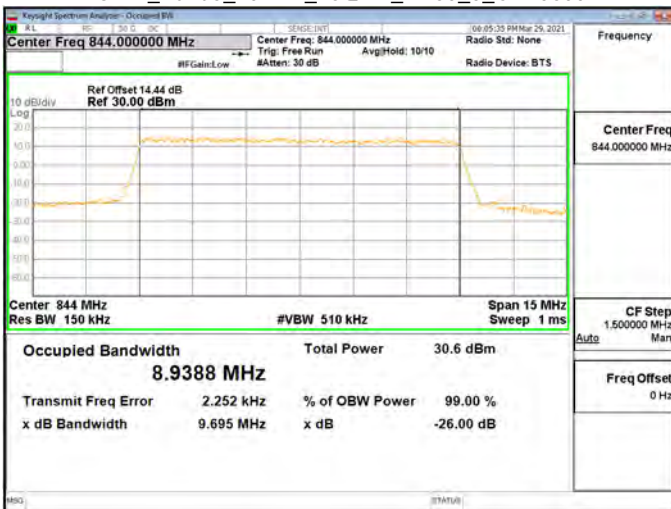
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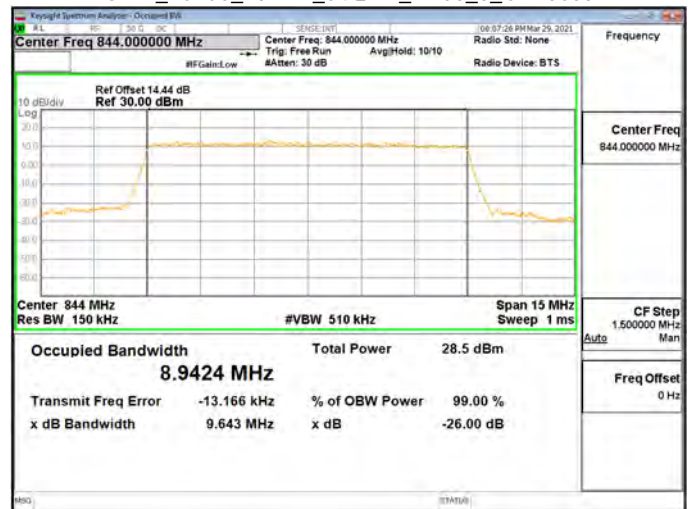
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OBW\_Band5\_10MHz\_64QAM\_RB50\_0\_CH20600



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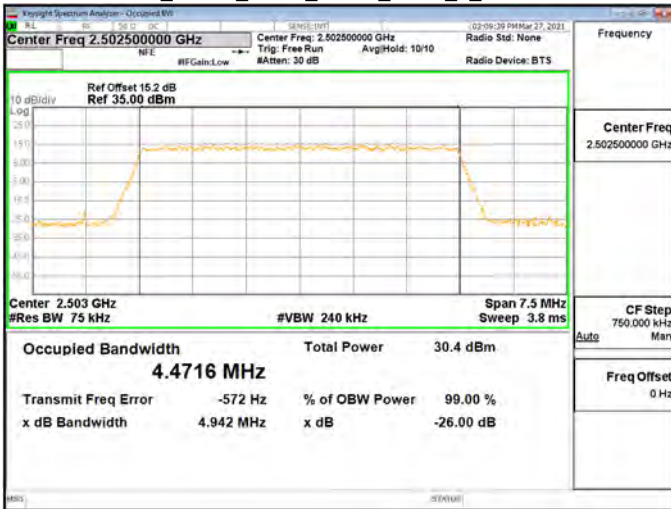
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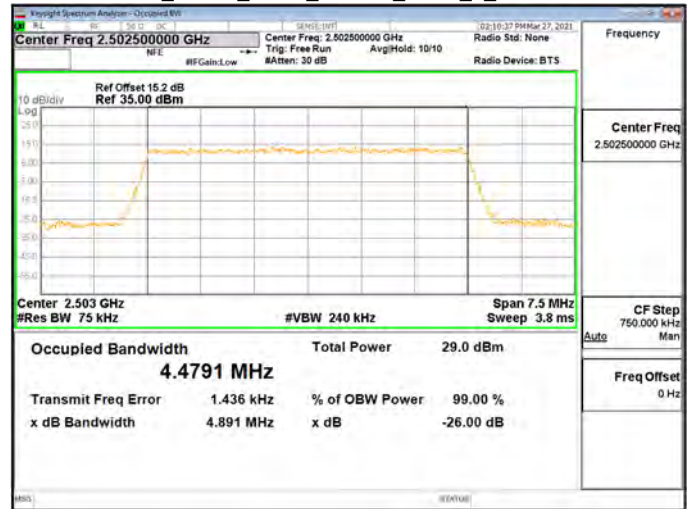
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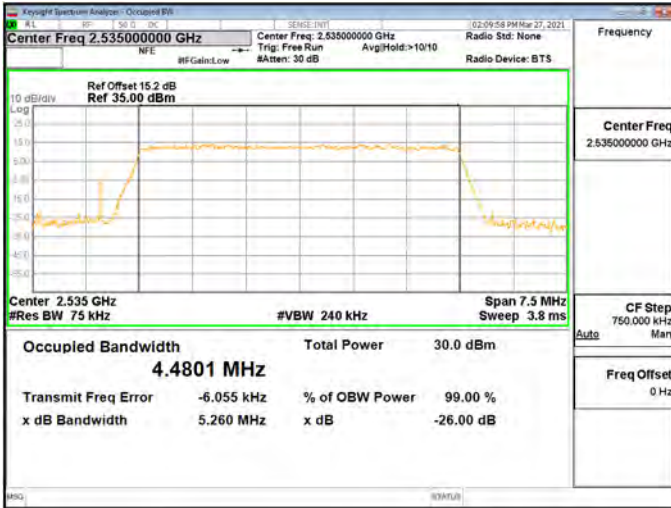
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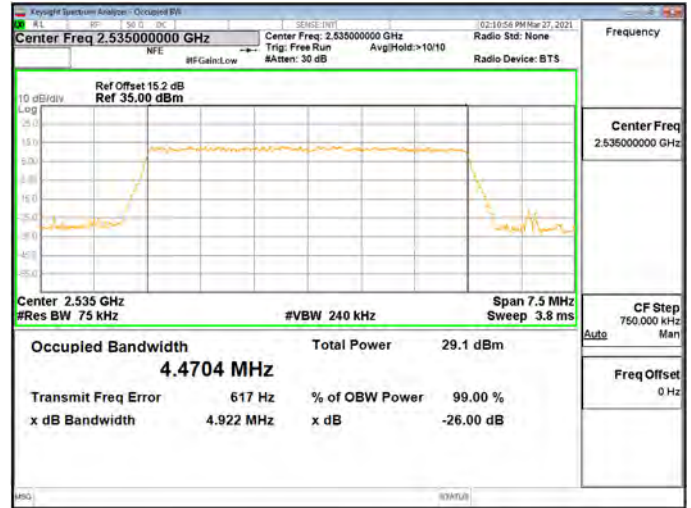
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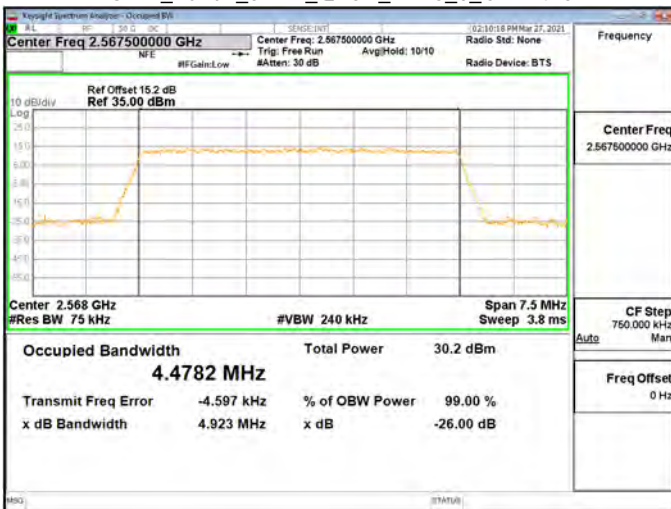
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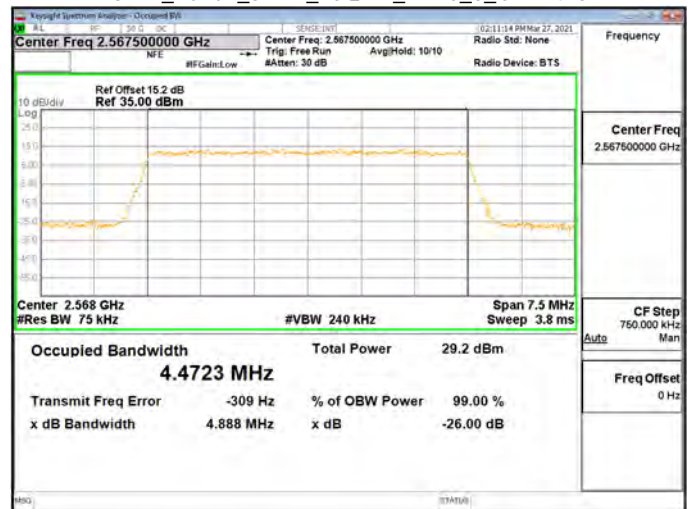
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OBW\_Band7\_5MHz\_16QAM\_RB25\_0\_CH21425



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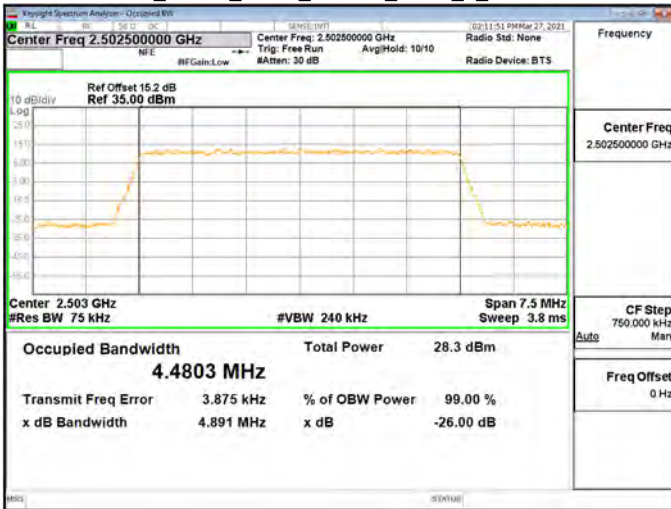
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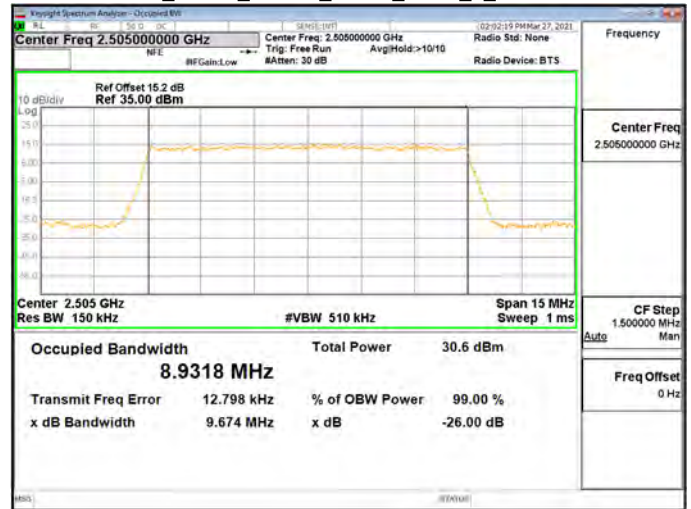
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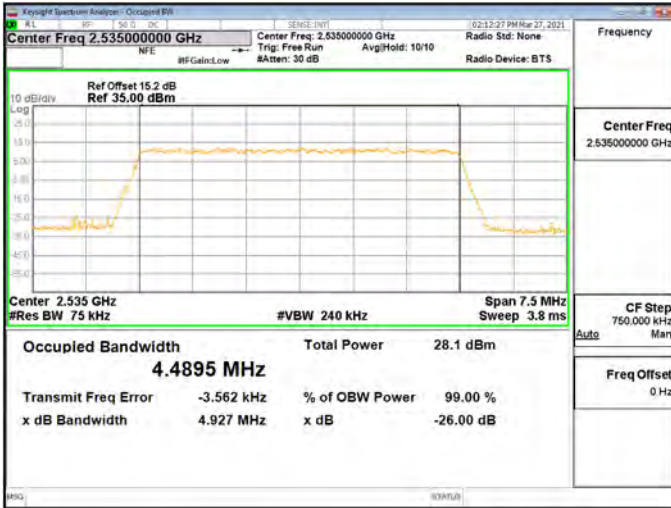
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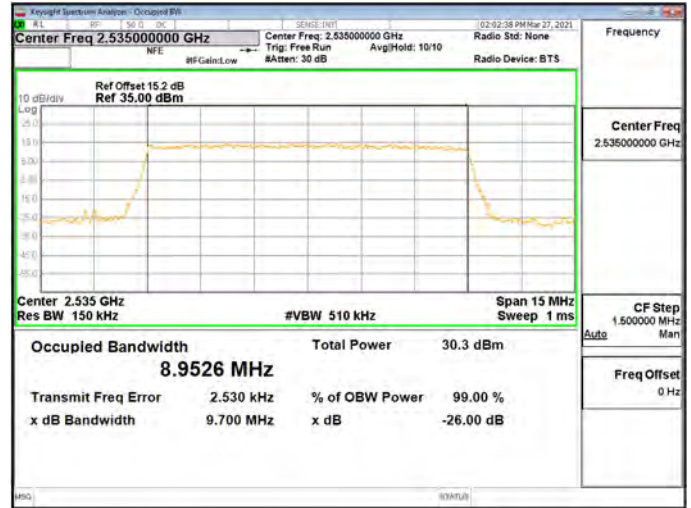
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OBW\_Band7\_5MHz\_64QAM\_RB25\_0\_CH21425



OBW\_Band7\_10MHz\_QPSK\_RB50\_0\_CH21400



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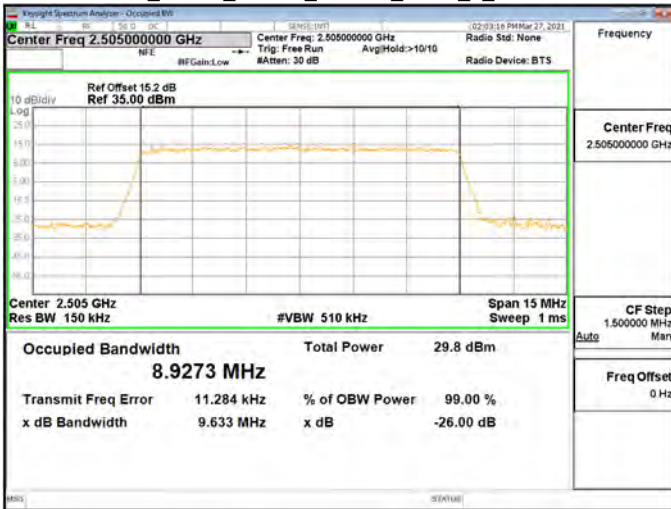
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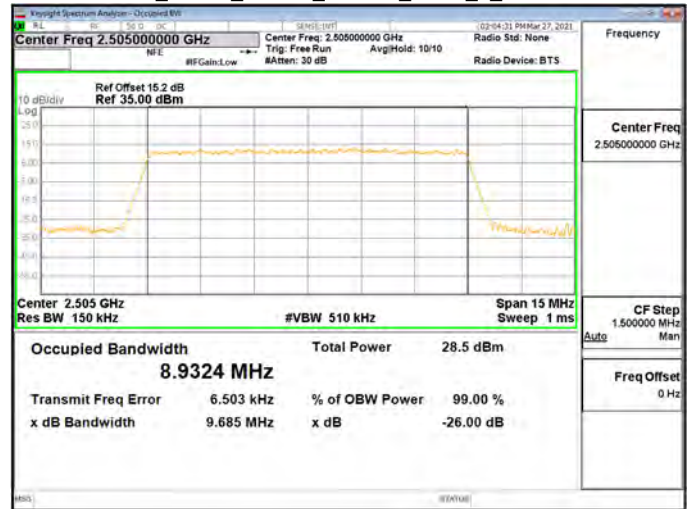
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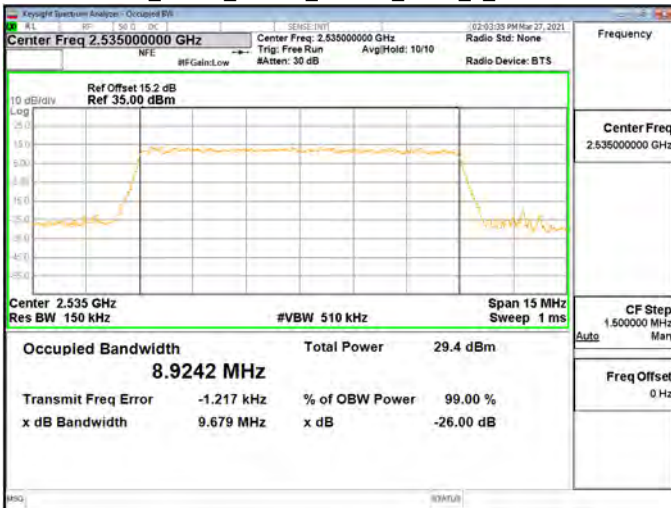
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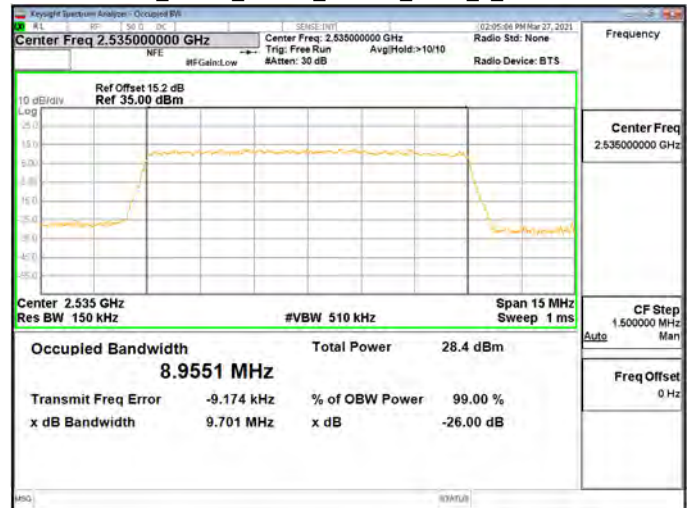
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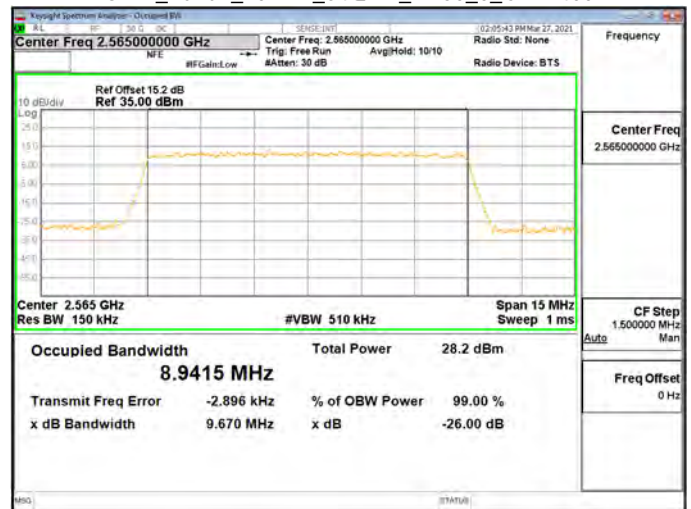
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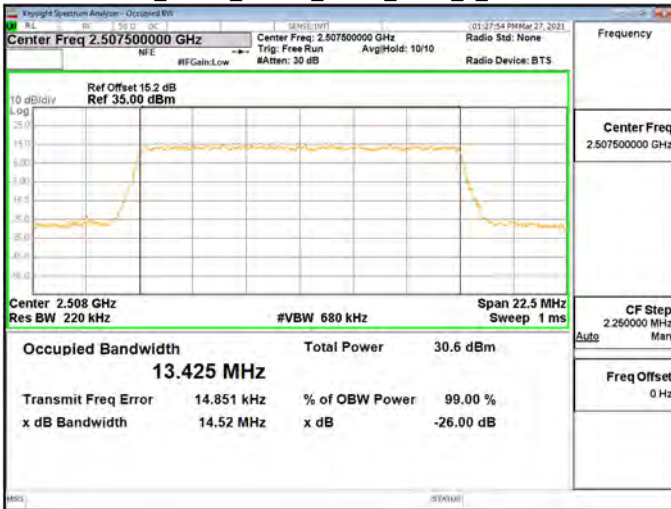


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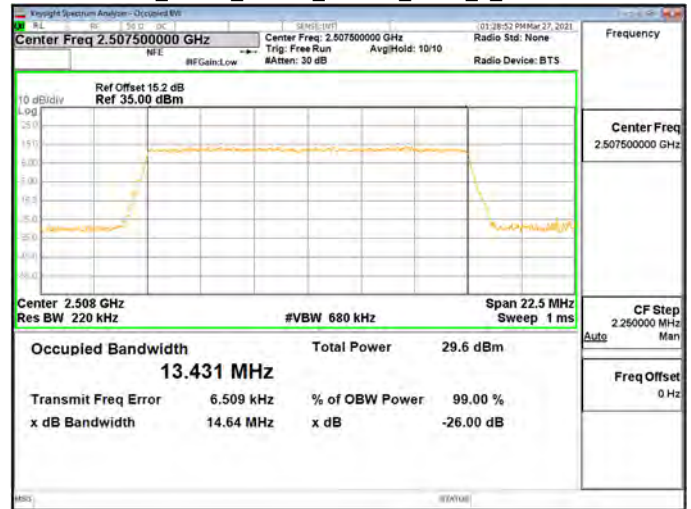
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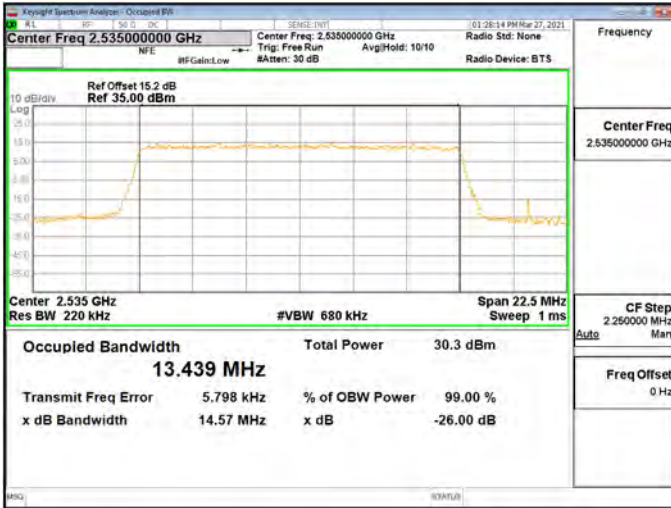
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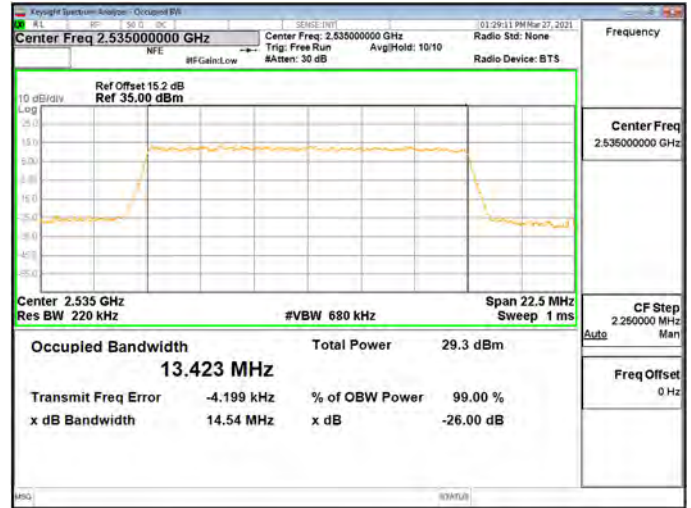
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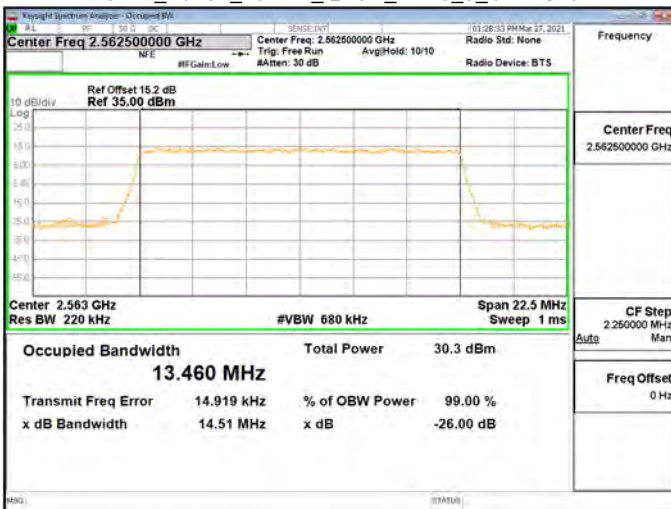
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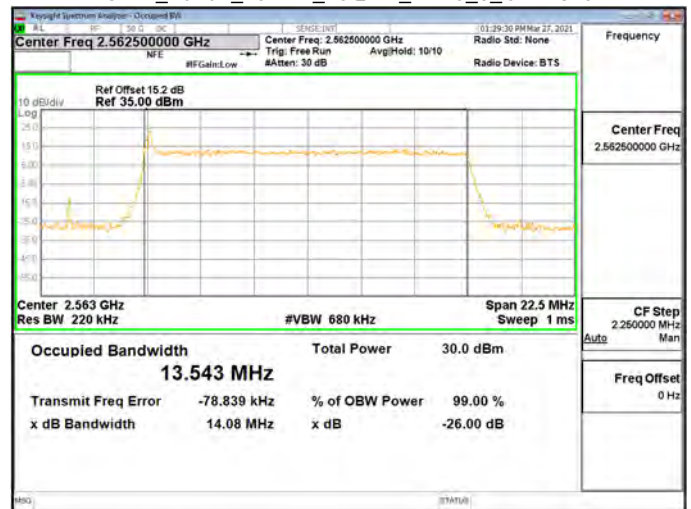
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OBW\_Band7\_15MHz\_16QAM\_RB75\_0\_CH21375



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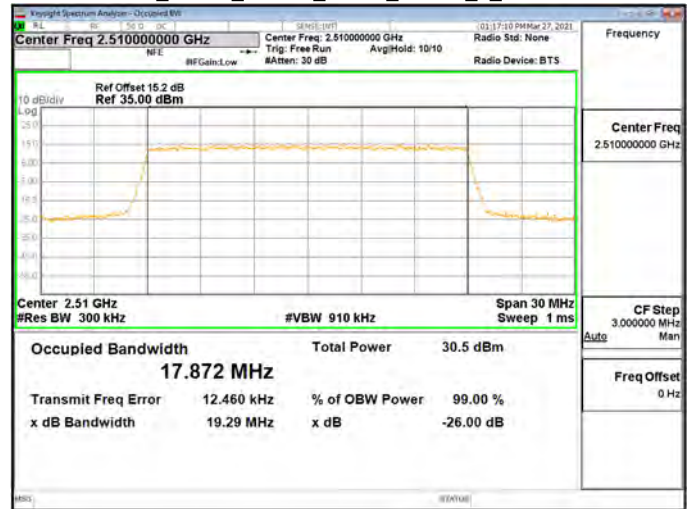
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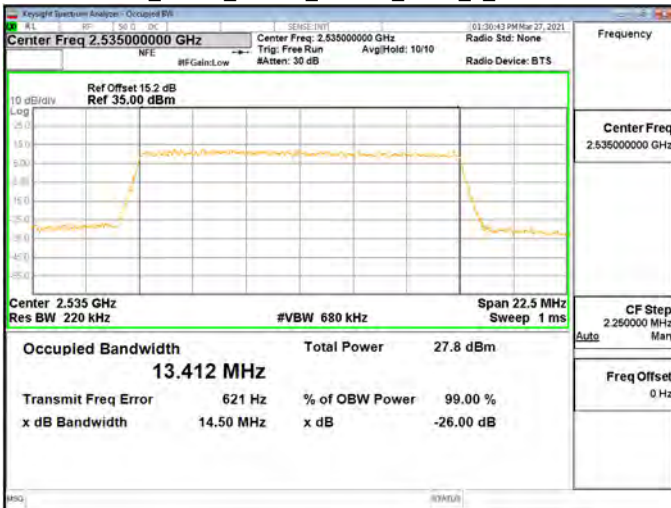
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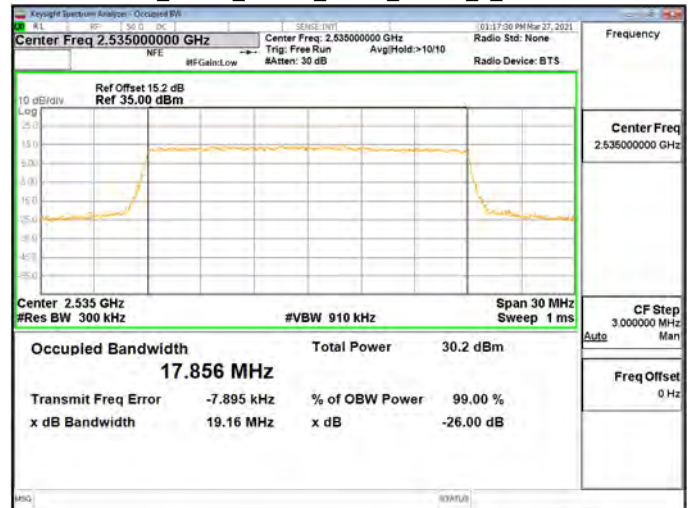
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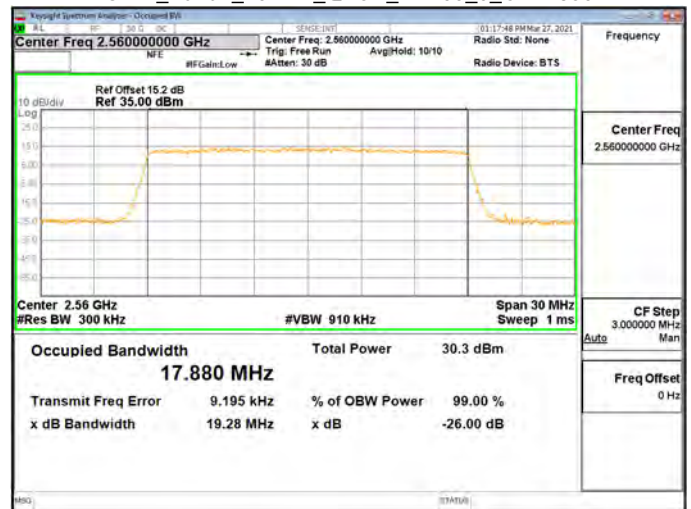
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OBW\_Band7\_20MHz\_QPSK\_RB100\_0\_CH21350



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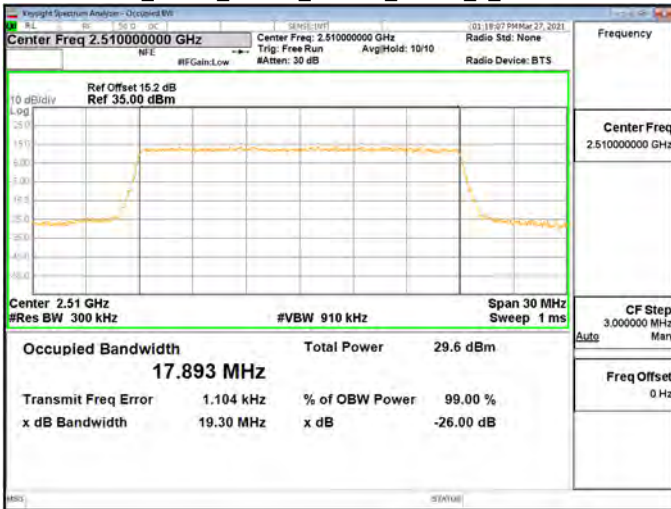
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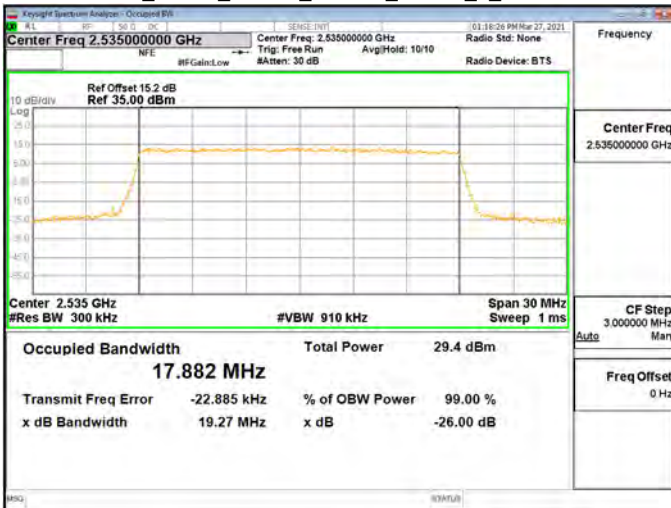
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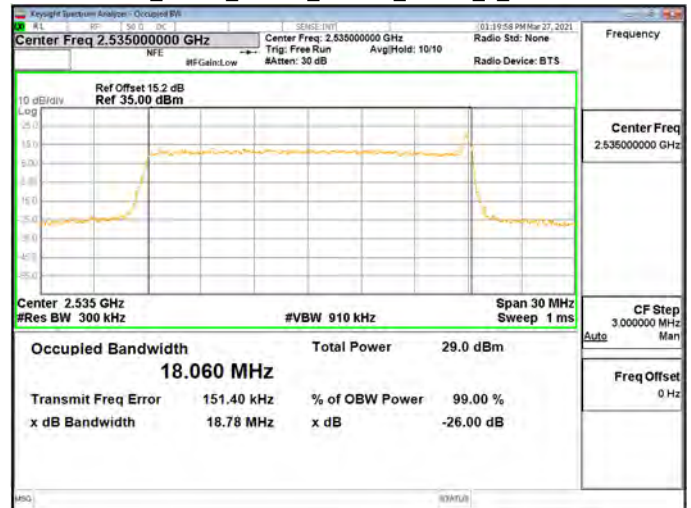
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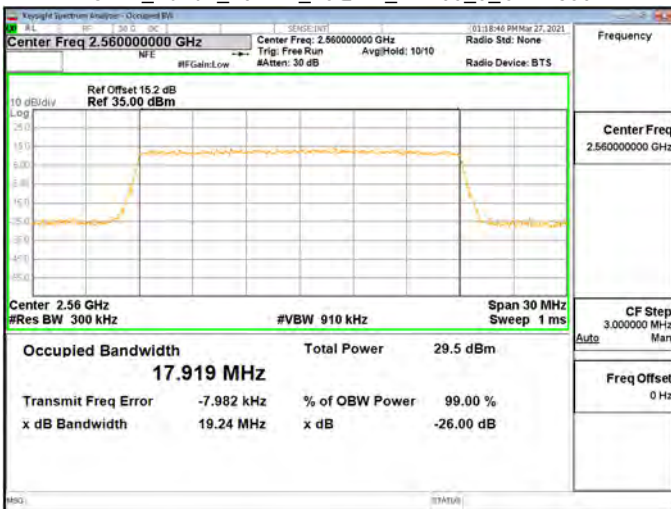
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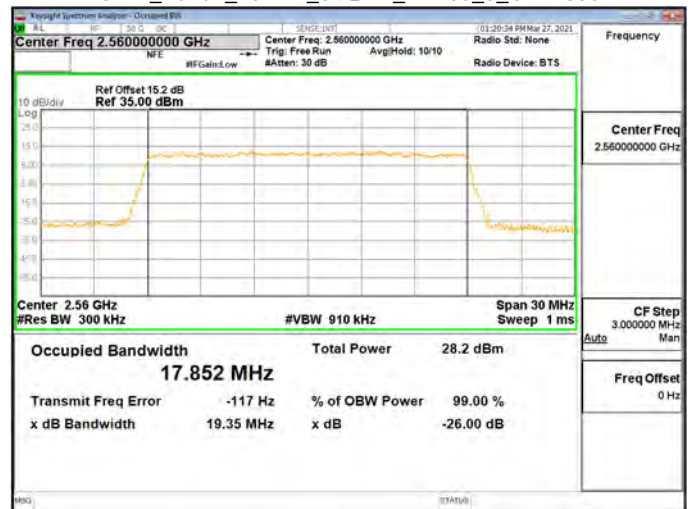
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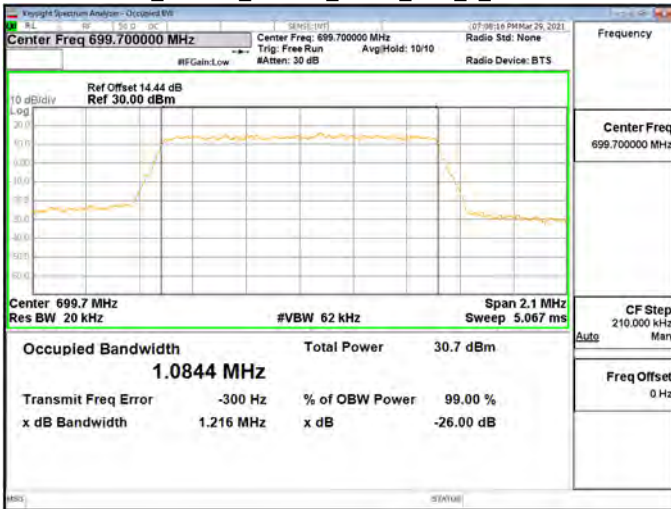
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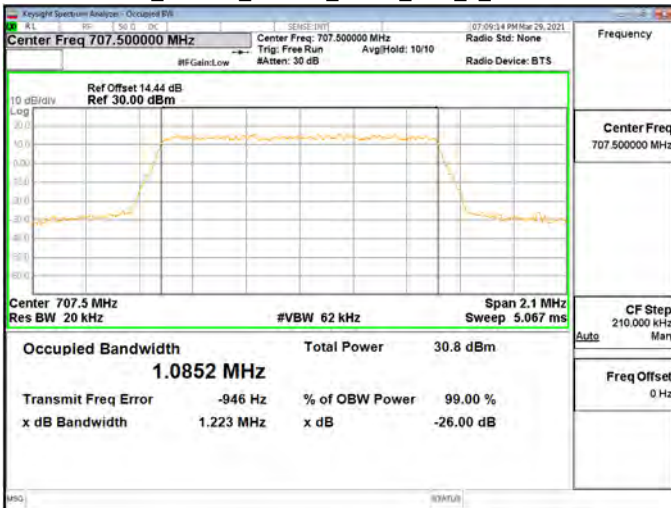
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OBW\_Band12\_1.4MHz\_16QAM\_RB6\_0\_CH23017



OBW\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23095



OBW\_Band12\_1.4MHz\_16QAM\_RB6\_0\_CH23095



OBW\_Band12\_1.4MHz\_QPSK\_RB6\_0\_CH23173



OBW\_Band12\_1.4MHz\_16QAM\_RB6\_0\_CH23173



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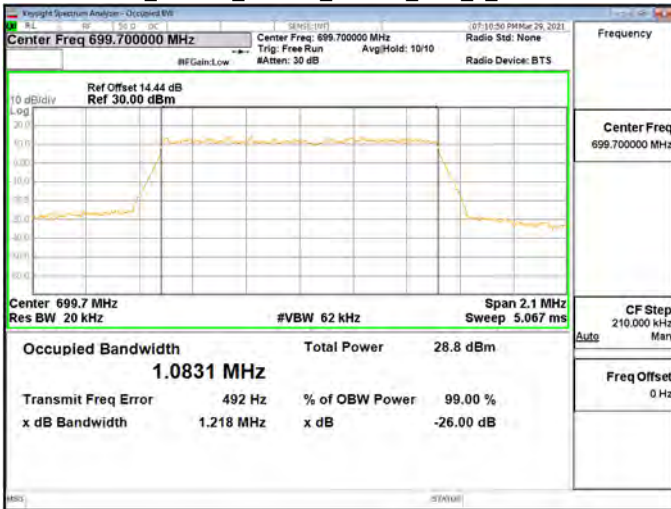
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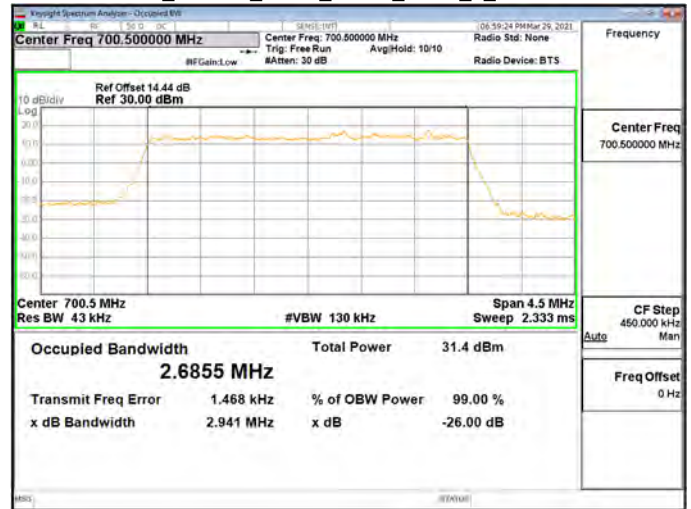
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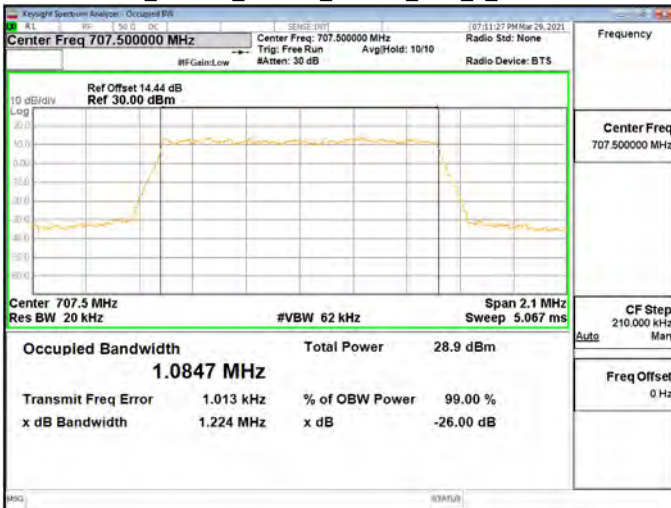
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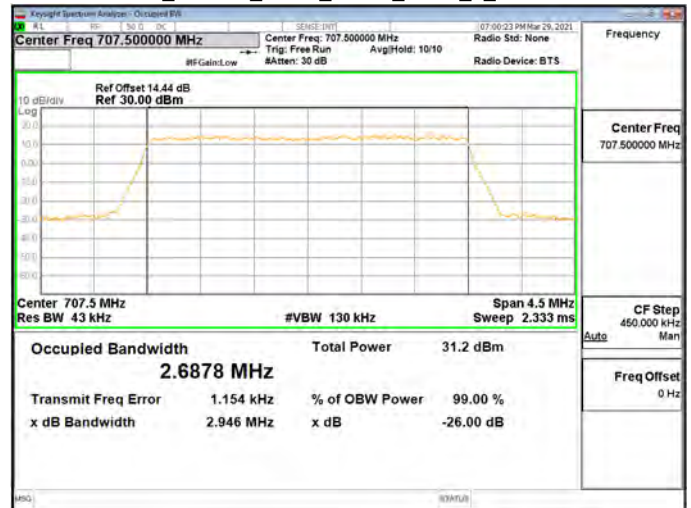
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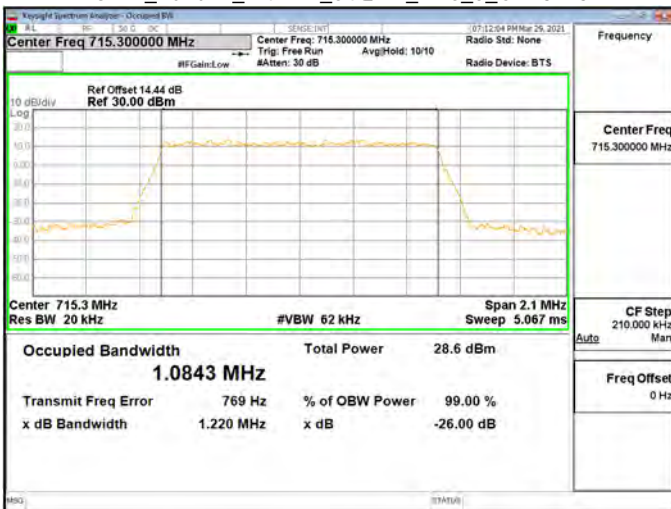
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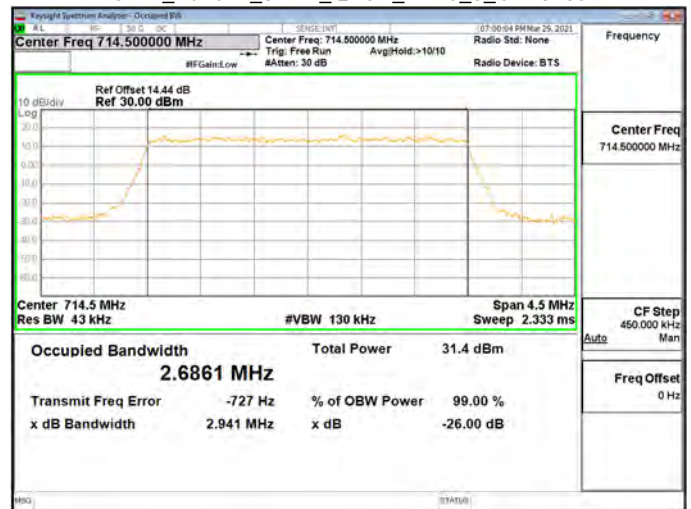
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OBW\_Band12\_1.4MHz\_64QAM\_RB6\_0\_CH23173



OBW\_Band12\_3MHz\_QPSK\_RB15\_0\_CH23165



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