

**ELECTROMAGNETIC EMISSIONS  
COMPLIANCE REPORT**

**Applicant:** Telit Communications S.p.A.  
Via Stazione di Prosecco 5/b 34010 Sgonico - Trieste

**Product Name:** LN920A12-WW / LN920A6-WW

**Brand Name:** Telit

**Model No.:** LN920A12-WW / LN920A6-WW

**Model Difference:** Refer to Page 4

**Report Number:** ER/2021/A0027-01

**FCC ID** RI7LN920

**IC:** 5131A-LN920

**Issue Date:** March 16, 2022

**Date of Test:** October 6, 2021~December 21, 2021

**Date of EUT Received:** October 6, 2021

Approved By \_\_\_\_\_

**Blue Yang**

**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 comply with FCC rule part 2, 22H & 24E & 27 C & 90S and ISED RSS-Gen, 130, 132, 133, 139, 140, 195, 199.

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

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	Remark
ER/2021/A0027-01	00	Inserting section 1.2 to address model difference.	March 16, 2022	Susan Lin	

**Note:**

- 1、The remark "" indicates modification of the report upon requests from certification body.
- 2、Variant information of model numbers is provided by the applicant, test results of this report are applicable to the sample EUT(s) received and are assessed as identical in hardware and firmware to each other.
- 3、Please note that the report ER/2021/A0027-01 will replace the previous ER/2021/A0027 as the new version and ER/2021/A0027 is ineffective anymore from now on.

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# 1 GENERAL PRODUCT INFORMATION

## 1.1 Product Description

Product Name:	LN920A12-WW / LN920A6-WW
Brand Name:	Telit
Model No.:	LN920A12-WW / LN920A6-WW
Model Difference:	1. Internal Component is different between two model. 2. Capability is different between two model.
Hardware Version:	1.0
Firmware Version:	LN920A12-WW: M0L.000001 / LN920A6-WW : M0L.010001
EUT Series No.:	35417570001280
Power Supply:	3.3Vdc
Test Software (Name/Version):	N/A

## 1.2 Model difference

- a) The mobile data modem chip on U200 between two models are pin for pin compatible with identical internal circuits.
- b) The **LN920A6-WW** uses MOBILE DATA MODEM SDX12-2 with CAT12 features disabled by a fuse bit with different FVIN.
- c) The **LN920A12-WW** is tested as the representative sample with the most modem capabilities.

Model	FVIN	Component on U200	Modem Capability
<b>LN920A12-WW</b>	M0L.000001	MOBILE DATA MODEM SDX12-0	LTE, 4 × 4 MIMO, CA 60 MHz DL, 256QAM DL, CA 40 MHz UL, 64 QAM UL,
<b>LN920A6-WW</b>	M0L.010001	MOBILE DATA MODEM SDX12-2	LTE, 4 × 4 MIMO, CA 40 MHz DL, 64 QAM DL, CA 20 MHz UL, 16 QAM UL

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### 1.3 Operation Frequency Range

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 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 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 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 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 13		
BW (MHz)	Operation Frequency (MHz)	
5	779.5	784.5
10	782.0	
LTE Band 14		
BW (MHz)	Operation Frequency (MHz)	
5	790.5	795.5
10	793.0	
LTE Band 17		
BW (MHz)	Operation Frequency (MHz)	
5	706.5	713.5
10	709.0	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

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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 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
LTE Band 30			
BW (MHz)	Operation Frequency (MHz)		
5	2307.5	-	2312.5
10	2310.0		
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 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 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 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 in 814~824MHz is disabled in Canada**

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### 1.4 Antenna Designation

Antenna Type	Antenna Model No.
Monopole	TG.55.8113
<b>Note:</b> Transmission frequencies in this test report are only available by the above antenna(s).	

Type	Modulation	Frequency (MHz)	Peak Antenna Gain (dBi)
Monopole	LTE-Band 2	1850 ~ 1910	3.05
	LTE-Band 4	1710 ~ 1755	3.4
	LTE-Band 5	824 ~ 849	3.2
	LTE-Band 7	2500 ~ 2570	3.12
	LTE-Band 12	699 ~ 716	2.51
	LTE-Band 13	777 ~ 787	2.51
	LTE-Band 14	788 ~ 798	2.51
	LTE-Band 17	704 ~ 716	2.51
	LTE-Band 25	1850 ~ 1915	3.05
	LTE-Band 26	824 ~ 849	2.51
	LTE-Band 26 Part 90	814 ~ 824	3.2
	LTE-Band 30	2305 ~ 2315	3.12
	LTE-Band 38	2570 ~ 2620	3.12
	LTE-Band 41	2496 ~ 2690	3.12
	LTE-Band 66	1710 ~ 1780	3.4
LTE-Band 71	663 ~ 698	1.26	

**Note:** Antenna information is provided by the applicant.

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

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
2	1.4	QPSK	26.13	EIRP	0.410	1.0862	1M09G7D	0
		16QAM	25.15	EIRP	0.327	1.0857	1M09D7W	0
		64QAM	24.16	EIRP	0.261	1.0855	1M09D7W	0
2	3	QPSK	25.97	EIRP	0.395	2.6872	2M69G7D	0
		16QAM	25.34	EIRP	0.342	2.6922	2M69D7W	0
		64QAM	24.07	EIRP	0.255	2.6934	2M69D7W	0
2	5	QPSK	25.97	EIRP	0.395	4.4874	4M49G7D	0
		16QAM	25.37	EIRP	0.344	4.4885	4M49D7W	0
		64QAM	24.20	EIRP	0.263	4.5017	4M50D7W	0
2	10	QPSK	26.19	EIRP	<b>0.416</b>	8.9849	8M98G7D	0
		16QAM	25.38	EIRP	<b>0.345</b>	8.9753	8M98D7W	0
		64QAM	24.32	EIRP	0.270	8.9689	8M97D7W	0
2	15	QPSK	25.95	EIRP	0.394	13.445	13M4G7D	0
		16QAM	25.19	EIRP	0.330	13.435	13M4D7W	0
		64QAM	24.37	EIRP	<b>0.274</b>	13.419	13M4D7W	0
2	20	QPSK	26.00	EIRP	0.398	17.906	17M9G7D	0
		16QAM	25.26	EIRP	0.336	17.917	17M9D7W	0
		64QAM	24.31	EIRP	0.270	17.922	17M9D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
12	1.4	QPSK	23.14	ERP	0.206	1.0860	1M09G7D	0
		16QAM	22.21	ERP	0.166	1.0856	1M09D7W	0
		64QAM	21.28	ERP	0.134	1.0843	1M08D7W	0
12	3	QPSK	23.10	ERP	0.204	2.6882	2M69G7D	0
		16QAM	22.26	ERP	0.168	2.6887	2M69D7W	0
		64QAM	21.32	ERP	<b>0.136</b>	2.6953	2M70D7W	0
12	5	QPSK	23.37	ERP	<b>0.217</b>	4.4894	4M49G7D	0
		16QAM	22.45	ERP	<b>0.176</b>	4.4868	4M49D7W	0
		64QAM	21.28	ERP	0.134	4.5055	4M51D7W	0
12	10	QPSK	23.06	ERP	0.202	9.0128	9M01G7D	0
		16QAM	22.39	ERP	0.173	8.9835	8M98D7W	0
		64QAM	21.20	ERP	0.132	8.9992	9M00D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
4	1.4	QPSK	26.05	EIRP	0.403	1.0858	1M09G7D	0
		16QAM	25.23	EIRP	0.333	1.0861	1M09D7W	0
		64QAM	24.18	EIRP	0.262	1.0861	1M09D7W	0
4	3	QPSK	26.05	EIRP	0.403	2.6900	2M69G7D	0
		16QAM	25.27	EIRP	0.337	2.6952	2M70D7W	0
		64QAM	24.11	EIRP	0.258	2.6936	2M69D7W	0
4	5	QPSK	26.09	EIRP	0.406	4.4846	4M48G7D	0
		16QAM	25.22	EIRP	0.333	4.4864	4M49D7W	0
		64QAM	25.34	EIRP	<b>0.342</b>	4.4976	4M50D7W	0
4	10	QPSK	26.07	EIRP	0.405	8.9803	8M98G7D	0
		16QAM	25.18	EIRP	0.330	8.9490	8M95D7W	0
		64QAM	25.24	EIRP	0.334	8.9946	8M99D7W	0
4	15	QPSK	26.11	EIRP	<b>0.408</b>	13.4600	13M5G7D	0
		16QAM	25.39	EIRP	<b>0.346</b>	13.4250	13M4D7W	0
		64QAM	25.12	EIRP	0.325	13.4210	13M4D7W	0
4	20	QPSK	26.11	EIRP	<b>0.408</b>	17.9120	17M9G7D	0
		16QAM	25.16	EIRP	0.328	17.9100	17M9D7W	0
		64QAM	25.19	EIRP	0.330	17.9110	17M9D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
13	5	QPSK	23.00	ERP	<b>0.200</b>	4.4900	4M49G7D	0
		16QAM	22.12	ERP	0.163	4.4927	4M49D7W	0
		64QAM	21.12	ERP	0.129	4.5059	4M51D7W	0
13	10	QPSK	22.88	ERP	0.194	8.9559	8M96G7D	0
		16QAM	22.37	ERP	<b>0.173</b>	8.9251	8M93D7W	0
		64QAM	21.19	ERP	<b>0.132</b>	8.9459	8M95D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
14	5	QPSK	22.95	ERP	<b>0.197</b>	4.4879	4M49G7D	0
		16QAM	22.12	ERP	0.163	4.4898	4M49D7W	0
		64QAM	21.61	ERP	<b>0.145</b>	4.5007	4M50D7W	0
14	10	QPSK	22.84	ERP	0.192	8.9438	8M94G7D	0
		16QAM	22.54	ERP	<b>0.179</b>	8.9156	8M92D7W	0
		64QAM	21.14	ERP	0.130	8.9375	8M94D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
17	5	QPSK	23.02	ERP	0.200	4.4916	4M49G7D	0
		16QAM	22.55	ERP	<b>0.180</b>	4.4907	4M49D7W	0
		64QAM	21.12	ERP	0.129	4.5055	4M51D7W	0
17	10	QPSK	23.10	ERP	<b>0.204</b>	9.0110	9M01G7D	0
		16QAM	22.36	ERP	0.172	8.9714	8M97D7W	0
		64QAM	21.20	ERP	<b>0.132</b>	9.0009	9M00D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
25	1.4	QPSK	25.66	EIRP	0.368	1.0864	1M09G7D	0
		16QAM	25.03	EIRP	0.318	1.0856	1M09D7W	0
		64QAM	23.82	EIRP	0.241	1.0851	1M09D7W	0
25	3	QPSK	25.79	EIRP	0.379	2.6977	2M70G7D	0
		16QAM	24.91	EIRP	0.310	2.7025	2M70D7W	0
		64QAM	23.92	EIRP	0.247	2.6923	2M69D7W	0
25	5	QPSK	25.70	EIRP	0.372	4.4858	4M49G7D	0
		16QAM	25.07	EIRP	0.321	4.4867	4M49D7W	0
		64QAM	23.86	EIRP	0.243	4.4992	4M50D7W	0
25	10	QPSK	25.84	EIRP	<b>0.384</b>	8.9756	8M98G7D	0
		16QAM	25.17	EIRP	<b>0.329</b>	8.9477	8M95D7W	0
		64QAM	23.98	EIRP	0.250	8.9633	8M96D7W	0
25	15	QPSK	25.58	EIRP	0.361	13.4560	13M5G7D	0
		16QAM	24.98	EIRP	0.315	13.4280	13M4D7W	0
		64QAM	24.10	EIRP	<b>0.257</b>	13.4210	13M4D7W	0
25	20	QPSK	25.74	EIRP	0.375	17.9030	17M9G7D	0
		16QAM	24.79	EIRP	0.301	17.9130	17M9D7W	0
		64QAM	23.77	EIRP	0.238	17.8940	17M9D7W	0

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LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
26	1.4	QPSK	23.66	ERP	0.232	1.0851	1M09G7D	0
		16QAM	22.78	ERP	0.190	1.0855	1M09D7W	0
		64QAM	21.78	ERP	0.151	1.0843	1M08D7W	0
26	3	QPSK	23.74	ERP	<b>0.237</b>	2.6885	2M69G7D	0
		16QAM	23.00	ERP	<b>0.200</b>	2.6958	2M70D7W	0
		64QAM	21.86	ERP	0.153	2.6972	2M70D7W	0
26	5	QPSK	23.65	ERP	0.232	4.4896	4M49G7D	0
		16QAM	22.98	ERP	0.199	4.4896	4M49D7W	0
		64QAM	21.76	ERP	0.150	4.5023	4M50D7W	0
26	10	QPSK	23.69	ERP	0.234	8.9867	8M99G7D	0
		16QAM	22.83	ERP	0.192	8.9614	8M96D7W	0
		64QAM	21.76	ERP	0.150	8.9836	8M98D7W	0
26	15	QPSK	23.62	ERP	0.230	13.4970	13M5G7D	0
		16QAM	22.97	ERP	0.198	13.4560	13M5D7W	0
		64QAM	21.91	ERP	<b>0.155</b>	13.4520	13M5D7W	0
LTE Band	BW	Modulation	Conducted (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
26 Part 90	1.4	QPSK	22.61		0.182	1.0854	1M09G7D	0
		16QAM	21.79		0.151	1.0852	1M09D7W	0
		64QAM	20.71		0.118	1.0840	1M08D7W	0
26 Part 90	3	QPSK	22.80		<b>0.191</b>	2.6889	2M69G7D	0
		16QAM	21.88		<b>0.154</b>	2.6929	2M69D7W	0
		64QAM	20.72		0.118	2.6933	2M69D7W	0
26 Part 90	5	QPSK	22.61		0.182	4.4892	4M49G7D	0
		16QAM	21.87		0.154	4.4942	4M49D7W	0
		64QAM	20.61		0.115	4.4997	4M50D7W	0
26 Part 90	10	QPSK	22.58		0.181	8.9621	8M96G7D	0
		16QAM	21.72		0.149	8.9279	8M93D7W	0
		64QAM	20.77		<b>0.119</b>	8.9476	8M95D7W	0
LTE Band	BW	Modulation	ERP / EIRP (dBm/5MHz)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
30	5	QPSK	23.66	EIRP	0.232	4.4840	4M48G7D	0
		16QAM	22.90	EIRP	0.195	4.4861	4M49D7W	0
		64QAM	21.92	EIRP	<b>0.156</b>	4.4995	4M50D7W	0
30	10	QPSK	23.67	EIRP	<b>0.233</b>	8.9794	8M98G7D	0
		16QAM	23.04	EIRP	<b>0.201</b>	8.9409	8M94D7W	0
		64QAM	21.87	EIRP	0.154	8.9644	8M96D7W	0
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
38	5	QPSK	25.67	EIRP	0.369	4.4936	4M49G7D	0
		16QAM	24.93	EIRP	0.311	4.4830	4M48D7W	0
		64QAM	23.83	EIRP	0.242	4.4937	4M49D7W	0
38	10	QPSK	25.74	EIRP	0.375	8.9633	8M96G7D	0
		16QAM	24.96	EIRP	0.313	8.9411	8M94D7W	0
		64QAM	23.83	EIRP	0.242	9.0079	9M01D7W	0
38	15	QPSK	25.77	EIRP	<b>0.378</b>	13.4350	13M4G7D	0
		16QAM	24.93	EIRP	0.311	13.4500	13M5D7W	0
		64QAM	23.84	EIRP	0.242	13.4100	13M4D7W	0
38	20	QPSK	25.69	EIRP	0.371	17.8940	17M9G7D	0
		16QAM	25.04	EIRP	<b>0.319</b>	17.8670	17M9D7W	0
		64QAM	23.95	EIRP	<b>0.248</b>	17.8910	17M9D7W	0

LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
41	5	QPSK	27.95	EIRP	0.624	4.4974	4M50G7D	0
		16QAM	27.28	EIRP	0.535	4.4914	4M49D7W	0
		64QAM	25.96	EIRP	0.394	4.4953	4M50D7W	0
41	10	QPSK	28.08	EIRP	0.643	8.9579	8M96G7D	0
		16QAM	27.25	EIRP	0.531	8.9387	8M94D7W	0
		64QAM	26.11	EIRP	0.408	8.9488	8M95D7W	0
41	15	QPSK	28.15	EIRP	0.653	13.4190	13M4G7D	0
		16QAM	27.27	EIRP	0.533	13.4360	13M4D7W	0
		64QAM	26.32	EIRP	0.429	13.3870	13M4D7W	0
41	20	QPSK	28.17	EIRP	<b>0.656</b>	17.8790	17M9G7D	0
		16QAM	27.36	EIRP	<b>0.545</b>	17.8770	17M9D7W	0
		64QAM	26.55	EIRP	<b>0.452</b>	17.8560	17M9D7W	0
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
66	1.4	QPSK	26.08	EIRP	0.406	1.0861	1M09G7D	0
		16QAM	25.30	EIRP	0.339	1.0855	1M09D7W	0
		64QAM	24.36	EIRP	0.273	1.0850	1M09D7W	0
66	3	QPSK	26.30	EIRP	<b>0.427</b>	2.6876	2M69G7D	0
		16QAM	25.45	EIRP	0.351	2.6923	2M69D7W	0
		64QAM	24.32	EIRP	0.270	2.6928	2M69D7W	0
66	5	QPSK	26.24	EIRP	0.421	4.4853	4M49G7D	0
		16QAM	25.23	EIRP	0.333	4.4880	4M49D7W	0
		64QAM	24.38	EIRP	<b>0.274</b>	4.4968	4M50D7W	0
66	10	QPSK	26.23	EIRP	0.420	8.9743	8M97G7D	0
		16QAM	25.38	EIRP	0.345	8.9440	8M94D7W	0
		64QAM	24.38	EIRP	<b>0.274</b>	8.9620	8M96D7W	0
66	15	QPSK	26.07	EIRP	0.405	13.4570	13M5G7D	0
		16QAM	25.40	EIRP	0.347	13.4300	13M4D7W	0
		64QAM	24.11	EIRP	0.258	13.4310	13M4D7W	0
66	20	QPSK	26.14	EIRP	0.411	17.8800	17M9G7D	0
		16QAM	25.54	EIRP	<b>0.358</b>	17.9030	17M9D7W	0
		64QAM	24.23	EIRP	0.265	17.9140	17M9D7W	0
LTE Band	BW	Modulation	ERP / EIRP (dBm)		(W)	99%	Type of Emission	Frequency Tolerance (Hz)
71	5	QPSK	22.65	EIRP	0.184	4.4845	4M48G7D	0
		16QAM	22.02	EIRP	0.159	4.4873	4M49D7W	0
		64QAM	20.84	EIRP	0.121	4.4938	4M49D7W	0
71	10	QPSK	22.58	EIRP	0.181	8.9685	8M97G7D	0
		16QAM	21.90	EIRP	0.155	8.9400	8M94D7W	0
		64QAM	20.98	EIRP	0.125	8.9556	8M96D7W	0
71	15	QPSK	22.60	EIRP	0.182	13.4290	13M4G7D	0
		16QAM	21.84	EIRP	0.153	13.4090	13M4D7W	0
		64QAM	21.31	EIRP	<b>0.135</b>	13.4020	13M4D7W	0
71	20	QPSK	22.69	EIRP	<b>0.186</b>	17.8710	17M9G7D	0
		16QAM	22.28	EIRP	<b>0.169</b>	17.9100	17M9D7W	0
		64QAM	21.10	EIRP	0.129	17.9010	17M9D7W	0

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## 1.6 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-139 Issue 3 July 16, 2015

ISED RSS-140 Issue 1 Apr. 2018,

ISED RSS-195 Issue 2 Apr. 24, 2014

ISED RSS-199 Issue 3 Dec. 2016

ANSI C63.26-2015

KDB971168 D01 Power Meas license Digital System v03r01

KDB412172 D01 Determining ERP and EIRP v01r01

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### 1.7 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	
		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 C	TW0028	
		SAC C		
		SAC D		
		SAC G		
		Conducted A		
		Conducted B		
		Conducted C		
		Conducted D		
		Conducted E		
		Conducted F		
Conducted G				

**Note:** 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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## 1.8 Special Accessories

No special accessories were used during testing.

## 1.9 Equipment Modifications

There was no modifications incorporated into the EUT.

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

Radiated emission below 30MHz is measured in a 9m\*6m\*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)	4.22	10	14.22
MB(1GHz - 2GHz)	4.52	10	14.52
MB(2GHz - 3GHz)	4.83	10	14.83
HB(over 3GHz)	5.47	10	15.47

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**2.5 Final Amplifier Voltage and Current Information:**
**LTE Band 2**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 2_20M QPSK	3.3	452	LTE Band 4_20M QPSK	3.3	437

**LTE Band 4**
**LTE Band 5**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	3.3	459	LTE Band 7_20M QPSK	3.3	462

**LTE Band 7**
**LTE Band 12**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 5_10M QPSK	3.3	451	LTE Band 13_10M QPSK	3.3	459

**LTE Band 13**
**LTE Band 14**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 14_10M QPSK	3.3	442	LTE Band 17_10M QPSK	3.3	455

**LTE Band 17**
**LTE Band 25**

Test mode	DC voltage (V)	DC current (mA)	Test Mode	DC voltage (V)	DC current (mA)
LTE Band 25_20M QPSK	3.3	453	LTE Band 26_10M QPSK	3.3	458

**LTE Band 26 for Part 90S**
**LTE Band 26**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 26_15M QPSK	3.3	466	LTE Band 30_10M QPSK	3.3	450

**LTE Band 30**
**LTE Band 38**

Test mode	DC voltage (V)	DC current (mA)	Test Mode	DC voltage (V)	DC current (mA)
LTE Band 38_20M QPSK	3.3	465	LTE Band 41_20M QPSK	3.3	463

**LTE Band 41**
**LTE Band 66**

Test mode	DC voltage (V)	DC current (mA)	Test mode	DC voltage (V)	DC current (mA)
LTE Band 66_20M QPSK	3.3	454	LTE Band 71_20M QPSK	3.3	438

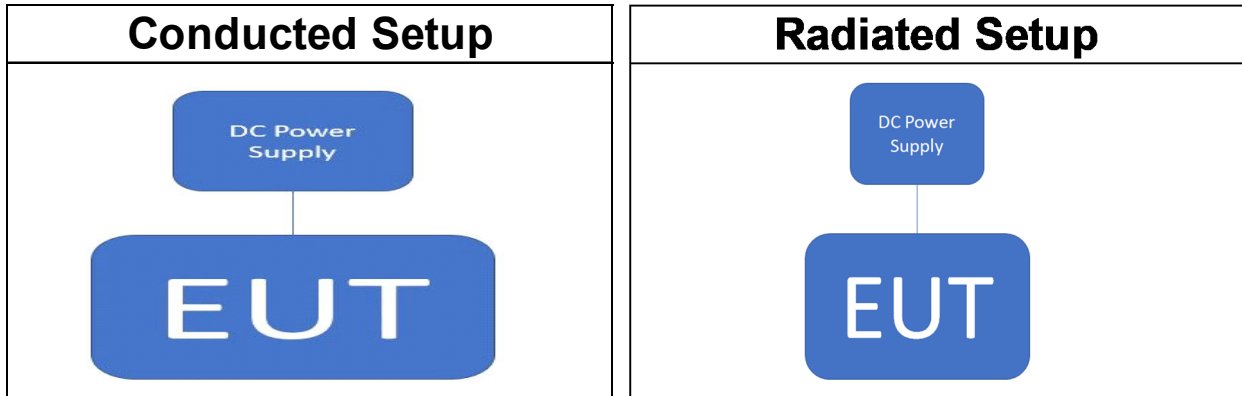
**LTE Band 71**

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## 2.6 Test Configuration



**Note:** Radio Communication Analyzer is placed in remote side for radiated test.

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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) §27.50(b)(10) §27.50(c)(10) §27.50(d)(4) §27.50(h)(2) §90.542(a)(7) §90.635	RSS-130 §4.6 RSS-132 §5.4 RSS-133 §6.4 RSS-139 §6.5 RSS-140 §4.3 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) §24.238(a) §27.50(c)(5) §27.53(c)(2),(4) §27.53(g) §27.53(h) §27.53(m)(4)(6) §90.691	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 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(c)(2),(4) §27.50(c)(5) §27.53(f) §27.53(g) §27.53(h) §27.53(m)(4) §90.691(a)(1)(2)	RSS-GEN §6.13 RSS-130 §4.7 RSS-132 §5.5 RSS-133 §6.5 RSS-139 §6.6 RSS-140 §4.4 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-140 §4.3 RSS-195 §5.5 RSS-199 §4.4	Peak to Average Ratio	Compliant
§2.1055(a)(1) §22.355 §24.235 §27.54 §90.543	RSS-130 §4.5 RSS-132 §5.3 RSS-133 §6.3 RSS-139 §6.5 RSS-140 §4.2 RSS-195 §5.4 RSS-197 §5.3 RSS-199 §4.3	Frequency Stability	Compliant

#### Note

1. All test data is leveraged from test report ER/2021/A0027.

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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 scenario from all possible combinations among available modulations, data rates and antenna ports, the worst case configurations listed below for the final test.
3. The field strength of radiated emission was measured as the EUT positioned in different orthogonal planes (E1/E2/H) based on actual usage of the EUT to pre-scan the emissions for determining the worst case scenario.

### 4.2 Measurement Configuration

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
	13	V	V	V	-	-	V	V	-	-	V	V	V	V	V	V	V
	14	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
	13	-	V	-	-	-		V	-	-	V	-	-	-	-	-	V
	14	-	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
	13	V	V	V	-	-	V	V	-	-	V	V	V	V	-	-	V
	14	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
71	V	V	V	-	-	V	V	V	V	V	V	V	V	-	-	V	
Peak-to-Average Ratio	2	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
	5	V	V	V	V	V	V	V	-	-	V	V			-	-	V
	7	V	V	V	-	-	V	V	V	V	V	V			-	-	V
	12	V	V	V	V	V	V	V	-	-	V	V			-	-	V
	13	V	V	V	-	-	V	V	-	-	V	V			-	-	V
	14	V	V	V	-	-	V	V	-	-	V	V			-	-	V
	17	V	V	V	-	-	V	V	-	-	V	V			-	-	V
	25	V	V	V	V	V	V	V	V	V	V	V			-	-	V
	26	V	V	V	V	V	V	V	V	-	V	V			-	-	V
	26 P90	V	V	V	V	V	V	V	-	-	V	V			-	-	V
	30	V	V	V	-	-	V	V	-	-	V	V			-	-	V
	38	V	V	V	-	-	V	V	V	V	V	V			-	-	V
	41	V	V	V	-	-	V	V	V	V	V	V			-	-	V
	66	V	V	V	V	V	V	V	V	V	V	V			-	-	V
71	V	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
Band Edge	2	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
	5	V	-	V	V	V	V	V	-	-	V	-	-	-	V	V	V
	7	V	-	V	-	-	V	V	V	V	V	-	-	-	V	V	V
	12	V	-	V	V	V	V	V	-	-	V	-	-	-	V	V	V
	13	V	-	V	-	-	V	V	-	-	V	-	-	-	V	V	V
	14	V	-	V	-	-	V	V	-	-	V	-	-	-	V	V	V
	17	V	-	V	-	-	V	V	-	-	V	-	-	-	V	V	V
	25	V	-	V	V	V	V	V	V	V	V	-	-	-	V	V	V
	26	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
	41	V	-	V	-	-	V	V	V	V	V	-	-	-	V	V	V
66	V	-	V	V	V	V	V	V	V	V	-	-	-	V	V	V	
71	V	-	V	-	-	V	V	V	V	V	-	-	-	V	V	V	
Conducted Emission	2	V	V	V	-	-	-	V	-	V	V	-	-	-	V	-	-
	4	V	V	V	-	-	-	-	V	V	V	-	-	-	V	-	-
	5	V	V	V	-	-	V	V	-	-	V	-	-	-	V	-	-
	7	V	V	V	-	-	-	-	V	V	V	-	-	-	V	-	-
	12	V	V	V	-	-	V	V	-	-	V	-	-	-	V	-	-
	13	V	V	V	-	-	V	V	-	-	V	-	-	-	V	-	-
	14	V	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	-	-	-	V	-	-
	26 P90	V	V	V	-	V	-	V	-	-	V	-	-	-	V	-	-
	30	V	V	V	-	-	-	V	-	-	V	-	-	-	V	-	-
	38	V	V	V	-	-	-	-	V	V	V	-	-	-	V	-	-
	41	V	V	V	-	-	-	-	-	V	V	-	-	-	V	-	-
66	V	V	V	-	V	-	-	-	V	V	-	-	-	V	-	-	
71	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	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		
	13	v	v	v	-	-	v		-	-	v				v		
	14	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	+/- 3 dB
	+/- 3 dB
Emission Bandwidth	+/- 1.53 Hz
Out of Band Emissions at Antenna Terminals and Band Edge	+/- 1.69 dB
Peak to Average Ratio	+/- 1 dB
Frequency Stability vs. Temperature	+/- 1.53 Hz
Frequency Stability vs. Voltage	+/- 1.53 Hz
Temperature	+/- 0.4 °C
Humidity	+/- 3.5 %
DC / AC Power Source	+/- 1 %

Radiated Spurious Emission Measurement Uncertainty		
<b>Polarization: Vertical</b>	+/- 2.64 dB	9kHz~30MHz
	+/- 4.93 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz
<b>Polarization: Horizontal</b>	+/- 2.64 dB	9kHz~30MHz
	+/- 4.45 dB	30MHz - 1000MHz
	+/- 4.81 dB	1GHz - 18GHz
	+/- 4.52 dB	18GHz - 40GHz

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 MEASUREMENT EQUIPMENT USED

### 6.1 Conducted Measurement

Conducted Emission Test Site: Conducted 4					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
EXA Spectrum Analyzer	Agilent	N9010A	MY54200716	10/13/2021	10/12/2022
Radio Communication Analyzer	Anritsu	MT8821C	6262044670	08/18/2021	08/17/2022
Test Software	SGS	Radio Test Software	Ver. 21	N.C.R	N.C.R
Temperature Chamber	Giant Force	GTH-150-40-CP-AR	MAA0512-018	05/19/2021	05/18/2022
DC Power Supply	Gwinstek	SPS-3610	GEV856761	09/18/2021	09/17/2022
Attenuator	Mini-Circuit	BW-S10W2+	4	12/16/2020	12/15/2021
Attenuator	Mini-Circuit	BW-S10W2+	4	12/14/2021	12/13/2022
DC Block	Mini-Circuits	BLK-18-S+	1	12/16/2020	12/15/2021
DC Block	Mini-Circuits	BLK-18-S+	1	12/14/2021	12/13/2022
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/16/2020	12/15/2021
Power Divider	RF-LAMBAD	RFLT2W1G18G	11-JSPF412-017	12/14/2021	12/13/2022

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## 6.2 Radiated Measurement

Radiated Emission Test Site: SAC 1					
EQUIPMENT TYPE	MFR	MODEL NUMBER	SERIAL NUMBER	LAST CAL.	CAL DUE.
Bi-log Antenna	SCHWARZBECK	VULB9168	378	08/20/2021	08/19/2022
Horn Antenna	SCHWARZBECK	BBHA9120D	603	05/18/2021	05/17/2022
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/11/2020	12/10/2021
Horn Antenna	SCHWARZBECK	BBHA9170	185	08/06/2021	08/05/2022
Site Cal	SGS	SAC I chamber	N/A	01/01/2021	12/31/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	D803	12/17/2020	12/16/2021
Bi-log Antenna	TESEO	CBL 6112D	35242 & AT-N0555	01/13/2021	01/12/2022
Spectrum Analyzer	Agilent	E4446A	MY51100003	10/26/2020	10/25/2022
Radio Communication Analyser	Anritsu	MT8815B	6200711454	04/07/2021	04/06/2022
Radio Communication Analyser	Anritsu	MT8821C	6262044751	10/27/2021	10/26/2022
DC Power Supply	Agilent	E3640A	MY40005907	10/12/2021	10/11/2022
Pre-Amplifier	EMC Instruments	EMC184045B	980135	10/27/2021	10/26/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2020	12/15/2021
Pre-Amplifier	HP	8447D	2944A09469	12/16/2020	12/15/2021
Bandreject Filter 635-920	Micro-Tronics	WI	4	12/16/2020	12/15/2021
Bandreject Filter 800-1000	Micro-Tronics	EWT	M1	12/16/2020	12/15/2021
Bandreject Filter 1700-2000	Micro-Tronics	EWT	M3	12/16/2020	12/15/2021
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/16/2020	12/15/2021
Bandreject Filter 3300-3800	Micro-Tronics	WI	1	12/16/2020	12/15/2021
1.3G-15GHz High Pass Filter	WI	WHKX10-1066-80SS	19	04/20/2021	04/19/2022
3.1GHz High Pass Filter	WI	WFIL-H3100-18000F-01	WRGBAFWC2B6	01/06/2021	01/05/2022
High Pass Filter	WI	WHKX4.0/18G-10SS	WHKX4.0/18G-10SS	12/16/2020	12/15/2021
High Pass Filter	WI	WHKX6.0/18G-10SS	WHKX6.0/18G-10SS	12/16/2020	12/15/2021

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Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2020	12/15/2021
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2020	12/15/2021
Horn Antenna	SCHWARZBECK	BBHA9120D	320	02/05/2021	02/04/2022
Horn Antenna	SCHWARZBECK	BBHA9170	184	12/16/2021	12/15/2022
Pre-Amplifier	HP	8449B	3008A01973	12/16/2021	12/15/2022
Pre-Amplifier	HP	8447D	2944A09469	12/16/2021	12/15/2022
Bandreject Filter 2240-2700	Micro-Tronics	WI	2	12/14/2021	12/13/2022
3.1GHz High Pass Filter	WI	WFIL-H3100-18000F-01	WRGBAFWC2 B6	12/14/2021	12/13/2022
Coaxial Cable	Huber Suhner	succoflex 102	MY2622/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	succoflex 104A	800086/4a	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	EMC 104-SM-SM-2000	160123	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 104	160125	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 106	76096/6	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY2630/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	MY22962/2	12/16/2021	12/15/2022
Coaxial Cable	Huber Suhner	SUCOFLEX 102	SN 520430/2	12/16/2021	12/15/2022

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## 7 MAXMUM OUTPUT POWER

### 7.1 Standard Applicable

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

#### 7.1.1 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 (b)**

(9) Control stations and mobile stations transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 30 watts ERP.

(10) Portable stations (hand-held devices) transmitting in the 746-757 MHz, 776-788 MHz, and 805-806 MHz bands are limited to 3 watts ERP.

##### **FCC 27.50(c)**

(9) Control and mobile stations in the 698-746 MHz band are limited to 30 watts ERP.

(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 90.542(a)**

(6) Control stations and mobile stations transmitting in the 758-768 MHz band and the 788-798 MHz band are limited to 30 watts ERP.

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

##### **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-140 §4.3**

The equivalent radiated power (e.r.p.) for control and mobile equipment shall not exceed 30 W. The e.r.p. for portable equipment including handheld devices shall not exceed 3 W.

**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**

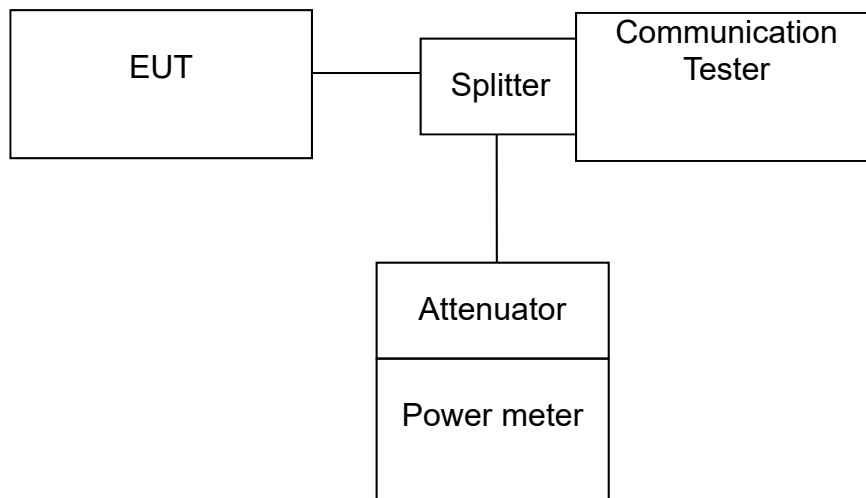
For mobile subscriber equipment operating in the Band 2500-2690MHz, the e.i.r.p. shall not exceed 2 W.

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## 7.2 Test Set-up



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

## 7.3 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.

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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#### 7.4 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.

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### 7.5 Measurement Results:

Antenna gain (dBi)		3.05							
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	22.71	25.76	33	-7.24
				1	5	22.79	25.84	33	-7.16
				3	2	22.90	25.95	33	-7.05
				6	0	21.74	24.79	33	-8.21
	18900	1880	QPSK	1	0	22.84	25.89	33	-7.11
				1	5	23.08	26.13	33	-6.87
				3	2	22.96	26.01	33	-6.99
				6	0	21.88	24.93	33	-8.07
	19193	1909.3	QPSK	1	0	22.70	25.75	33	-7.25
				1	5	22.77	25.82	33	-7.18
				3	2	22.81	25.86	33	-7.14
				6	0	21.86	24.91	33	-8.09
1.4	18607	1850.7	16QAM	1	0	21.88	24.93	33	-8.07
				1	5	21.98	25.03	33	-7.97
				3	2	21.77	24.82	33	-8.18
				6	0	20.77	23.82	33	-9.18
	18900	1880	16QAM	1	0	22.10	25.15	33	-7.85
				1	5	21.94	24.99	33	-8.01
				3	2	21.95	25.00	33	-8
				6	0	21.00	24.05	33	-8.95
	19193	1909.3	16QAM	1	0	21.88	24.93	33	-8.07
				1	5	21.85	24.90	33	-8.1
				3	2	21.70	24.75	33	-8.25
				6	0	20.89	23.94	33	-9.06
1.4	18607	1850.7	64QAM	1	0	20.92	23.97	33	-9.03
				1	5	20.81	23.86	33	-9.14
				3	2	20.94	23.99	33	-9.01
				6	0	19.73	22.78	33	-10.22
	18900	1880	64QAM	1	0	21.05	24.10	33	-8.9
				1	5	20.96	24.01	33	-8.99
				3	2	21.11	24.16	33	-8.84
				6	0	19.82	22.87	33	-10.13
	19193	1909.3	64QAM	1	0	20.99	24.04	33	-8.96
				1	5	20.98	24.03	33	-8.97
				3	2	20.96	24.01	33	-8.99
				6	0	19.86	22.91	33	-10.09

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Antenna gain (dBi)		3.05							
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	22.77	25.82	33	-7.18
				1	14	22.79	25.84	33	-7.16
				8	4	21.87	24.92	33	-8.08
				15	0	21.80	24.85	33	-8.15
	18900	1880	QPSK	1	0	22.92	25.97	33	-7.03
				1	14	22.91	25.96	33	-7.04
				8	4	21.95	25.00	33	-8
				15	0	21.94	24.99	33	-8.01
	19185	1908.5	QPSK	1	0	22.81	25.86	33	-7.14
				1	14	22.77	25.82	33	-7.18
				8	4	21.89	24.94	33	-8.06
				15	0	21.83	24.88	33	-8.12
3	18615	1851.5	16QAM	1	0	22.06	25.11	33	-7.89
				1	14	21.99	25.04	33	-7.96
				8	4	20.95	24.00	33	-9
				15	0	20.88	23.93	33	-9.07
	18900	1880	16QAM	1	0	22.17	25.22	33	-7.78
				1	14	22.29	25.34	33	-7.66
				8	4	21.05	24.10	33	-8.9
				15	0	20.83	23.88	33	-9.12
	19185	1908.5	16QAM	1	0	22.00	25.05	33	-7.95
				1	14	21.88	24.93	33	-8.07
				8	4	20.97	24.02	33	-8.98
				15	0	20.92	23.97	33	-9.03
3	18615	1851.5	64QAM	1	0	20.97	24.02	33	-8.98
				1	14	20.99	24.04	33	-8.96
				8	4	19.88	22.93	33	-10.07
				15	0	19.84	22.89	33	-10.11
	18900	1880	64QAM	1	0	21.02	24.07	33	-8.93
				1	14	21.02	24.07	33	-8.93
				8	4	20.01	23.06	33	-9.94
				15	0	19.96	23.01	33	-9.99
	19185	1908.5	64QAM	1	0	20.93	23.98	33	-9.02
				1	14	20.93	23.98	33	-9.02
				8	4	19.92	22.97	33	-10.03
				15	0	19.86	22.91	33	-10.09

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Antenna gain (dBi)		3.05							
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	22.78	25.83	33	-7.17
				1	24	22.84	25.89	33	-7.11
				12	6	21.91	24.96	33	-8.04
				25	0	21.82	24.87	33	-8.13
	18900	1880	QPSK	1	0	22.90	25.95	33	-7.05
				1	24	22.92	<b>25.97</b>	33	-7.03
				12	6	22.00	25.05	33	-7.95
				25	0	22.03	25.08	33	-7.92
	19175	1907.5	QPSK	1	0	22.72	25.77	33	-7.23
				1	24	22.70	25.75	33	-7.25
				12	6	21.89	24.94	33	-8.06
				25	0	21.87	24.92	33	-8.08
5	18625	1852.5	16QAM	1	0	22.01	25.06	33	-7.94
				1	24	22.14	25.19	33	-7.81
				12	6	20.93	23.98	33	-9.02
				25	0	20.82	23.87	33	-9.13
	18900	1880	16QAM	1	0	22.32	<b>25.37</b>	33	-7.63
				1	24	22.11	25.16	33	-7.84
				12	6	21.04	24.09	33	-8.91
				25	0	20.96	24.01	33	-8.99
	19175	1907.5	16QAM	1	0	22.00	25.05	33	-7.95
				1	24	21.96	25.01	33	-7.99
				12	6	20.87	23.92	33	-9.08
				25	0	20.92	23.97	33	-9.03
5	18625	1852.5	64QAM	1	0	20.70	23.75	33	-9.25
				1	24	20.93	23.98	33	-9.02
				12	6	19.95	23.00	33	-10
				25	0	19.90	22.95	33	-10.05
	18900	1880	64QAM	1	0	21.07	24.12	33	-8.88
				1	24	21.15	<b>24.20</b>	33	-8.8
				12	6	20.04	23.09	33	-9.91
				25	0	19.94	22.99	33	-10.01
	19175	1907.5	64QAM	1	0	20.94	23.99	33	-9.01
				1	24	21.05	24.10	33	-8.9
				12	6	19.96	23.01	33	-9.99
				25	0	19.88	22.93	33	-10.07

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Antenna gain (dBi)		3.05							
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	22.89	25.94	33	-7.06
				1	49	22.75	25.80	33	-7.2
				25	12	21.92	24.97	33	-8.03
				50	0	21.84	24.89	33	-8.11
	18900	1880	QPSK	1	0	22.94	25.99	33	-7.01
				1	49	23.14	<b>26.19</b>	33	-6.81
				25	12	21.95	25.00	33	-8
				50	0	21.97	25.02	33	-7.98
	19150	1905	QPSK	1	0	22.81	25.86	33	-7.14
				1	49	22.88	25.93	33	-7.07
				25	12	21.91	24.96	33	-8.04
				50	0	21.88	24.93	33	-8.07
10	18650	1855	16QAM	1	0	22.13	25.18	33	-7.82
				1	49	22.10	25.15	33	-7.85
				25	12	20.83	23.88	33	-9.12
				50	0	20.90	23.95	33	-9.05
	18900	1880	16QAM	1	0	22.16	25.21	33	-7.79
				1	49	22.33	<b>25.38</b>	33	-7.62
				25	12	20.99	24.04	33	-8.96
				50	0	20.98	24.03	33	-8.97
	19150	1905	16QAM	1	0	22.07	25.12	33	-7.88
				1	49	22.11	25.16	33	-7.84
				25	12	20.89	23.94	33	-9.06
				50	0	20.88	23.93	33	-9.07
10	18650	1855	64QAM	1	0	21.00	24.05	33	-8.95
				1	49	21.05	24.10	33	-8.9
				25	12	19.91	22.96	33	-10.04
				50	0	19.88	22.93	33	-10.07
	18900	1880	64QAM	1	0	21.11	24.16	33	-8.84
				1	49	21.27	<b>24.32</b>	33	-8.68
				25	12	20.03	23.08	33	-9.92
				50	0	20.00	23.05	33	-9.95
	19150	1905	64QAM	1	0	21.07	24.12	33	-8.88
				1	49	21.09	24.14	33	-8.86
				25	12	19.85	22.90	33	-10.1
				50	0	19.91	22.96	33	-10.04

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Antenna gain (dBi)		3.05							
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	22.78	25.83	33	-7.17
				1	74	22.86	25.91	33	-7.09
				36	18	21.89	24.94	33	-8.06
				75	0	21.88	24.93	33	-8.07
	18900	1880	QPSK	1	0	22.87	25.92	33	-7.08
				1	74	22.87	25.92	33	-7.08
				36	18	21.98	25.03	33	-7.97
				75	0	21.97	25.02	33	-7.98
	19125	1902.5	QPSK	1	0	22.71	25.76	33	-7.24
				1	74	22.90	25.95	33	-7.05
				36	18	21.90	24.95	33	-8.05
				75	0	21.84	24.89	33	-8.11
15	18675	1857.5	16QAM	1	0	21.99	25.04	33	-7.96
				1	74	21.88	24.93	33	-8.07
				36	18	20.89	23.94	33	-9.06
				75	0	20.88	23.93	33	-9.07
	18900	1880	16QAM	1	0	22.09	25.14	33	-7.86
				1	74	22.14	25.19	33	-7.81
				36	18	21.03	24.08	33	-8.92
				75	0	21.00	24.05	33	-8.95
	19125	1902.5	16QAM	1	0	21.94	24.99	33	-8.01
				1	74	22.13	25.18	33	-7.82
				36	18	20.88	23.93	33	-9.07
				75	0	20.79	23.84	33	-9.16
15	18675	1857.5	64QAM	1	0	21.27	24.32	33	-8.68
				1	74	21.06	24.11	33	-8.89
				36	18	19.90	22.95	33	-10.05
				75	0	19.85	22.90	33	-10.1
	18900	1880	64QAM	1	0	21.32	24.37	33	-8.63
				1	74	21.18	24.23	33	-8.77
				36	18	20.04	23.09	33	-9.91
				75	0	20.02	23.07	33	-9.93
	19125	1902.5	64QAM	1	0	20.92	23.97	33	-9.03
				1	74	20.99	24.04	33	-8.96
				36	18	19.86	22.91	33	-10.09
				75	0	19.87	22.92	33	-10.08

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Antenna gain (dBi)		3.05							
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	22.76	25.81	33	-7.19
				1	99	22.83	25.88	33	-7.12
				50	25	21.92	24.97	33	-8.03
				100	0	21.90	24.95	33	-8.05
	18900	1880	QPSK	1	0	22.95	<b>26.00</b>	33	-7
				1	99	22.87	25.92	33	-7.08
				50	25	22.00	25.05	33	-7.95
				100	0	21.99	25.04	33	-7.96
	19100	1900	QPSK	1	0	22.86	25.91	33	-7.09
				1	99	22.88	25.93	33	-7.07
				50	25	21.83	24.88	33	-8.12
				100	0	21.97	25.02	33	-7.98
20	18700	1860	16QAM	1	0	22.05	25.10	33	-7.9
				1	99	22.14	25.19	33	-7.81
				50	25	20.90	23.95	33	-9.05
				100	0	20.85	23.90	33	-9.1
	18900	1880	16QAM	1	0	22.08	25.13	33	-7.87
				1	99	22.21	<b>25.26</b>	33	-7.74
				50	25	20.99	24.04	33	-8.96
				100	0	20.95	24.00	33	-9
	19100	1900	16QAM	1	0	22.01	25.06	33	-7.94
				1	99	22.06	25.11	33	-7.89
				50	25	20.91	23.96	33	-9.04
				100	0	20.97	24.02	33	-8.98
20	18700	1860	64QAM	1	0	20.94	23.99	33	-9.01
				1	99	21.01	24.06	33	-8.94
				50	25	19.95	23.00	33	-10
				100	0	19.93	22.98	33	-10.02
	18900	1880	64QAM	1	0	21.06	24.11	33	-8.89
				1	99	21.26	<b>24.31</b>	33	-8.69
				50	25	20.04	23.09	33	-9.91
				100	0	19.98	23.03	33	-9.97
	19100	1900	64QAM	1	0	21.01	24.06	33	-8.94
				1	99	20.66	23.71	33	-9.29
				50	25	19.86	22.91	33	-10.09
				100	0	19.89	22.94	33	-10.06

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Antenna gain (dBi)		3.4							
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	22.54	25.94	30	-4.06
				1	5	22.42	25.82	30	-4.18
				3	2	22.65	<b>26.05</b>	30	-3.95
				6	0	21.63	25.03	30	-4.97
	20175	1732.5	QPSK	1	0	22.41	25.81	30	-4.19
				1	5	22.34	25.74	30	-4.26
				3	2	22.47	25.87	30	-4.13
				6	0	21.42	24.82	30	-5.18
	20393	1754.3	QPSK	1	0	22.34	25.74	30	-4.26
				1	5	22.30	25.70	30	-4.3
				3	2	22.62	26.02	30	-3.98
				6	0	21.52	24.92	30	-5.08
1.4	19957	1710.7	16QAM	1	0	21.73	25.13	30	-4.87
				1	5	21.73	25.13	30	-4.87
				3	2	21.69	25.09	30	-4.91
				6	0	20.71	24.11	30	-5.89
	20175	1732.5	16QAM	1	0	21.72	25.12	30	-4.88
				1	5	21.74	25.14	30	-4.86
				3	2	21.49	24.89	30	-5.11
				6	0	20.47	23.87	30	-6.13
	20393	1754.3	16QAM	1	0	21.83	<b>25.23</b>	30	-4.77
				1	5	21.68	25.08	30	-4.92
				3	2	21.56	24.96	30	-5.04
				6	0	20.63	24.03	30	-5.97
1.4	19957	1710.7	64QAM	1	0	20.69	24.09	30	-5.91
				1	5	20.65	24.05	30	-5.95
				3	2	20.77	24.17	30	-5.83
				6	0	19.67	23.07	30	-6.93
	20175	1732.5	64QAM	1	0	20.37	23.77	30	-6.23
				1	5	20.47	23.87	30	-6.13
				3	2	20.56	23.96	30	-6.04
				6	0	19.34	22.74	30	-7.26
	20393	1754.3	64QAM	1	0	20.62	24.02	30	-5.98
				1	5	20.72	24.12	30	-5.88
				3	2	20.78	<b>24.18</b>	30	-5.82
				6	0	19.43	22.83	30	-7.17

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Antenna gain (dBi)		3.4							
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	22.65	<b>26.05</b>	30	-3.95
				1	14	22.43	25.83	30	-4.17
				8	4	21.75	25.15	30	-4.85
				15	0	21.64	25.04	30	-4.96
	20175	1732.5	QPSK	1	0	22.42	25.82	30	-4.18
				1	14	22.46	25.86	30	-4.14
				8	4	21.45	24.85	30	-5.15
				15	0	21.43	24.83	30	-5.17
	20385	1753.5	QPSK	1	0	22.53	25.93	30	-4.07
				1	14	22.39	25.79	30	-4.21
				8	4	21.62	25.02	30	-4.98
				15	0	21.58	24.98	30	-5.02
3	19965	1711.5	16QAM	1	0	21.80	25.20	30	-4.8
				1	14	21.87	<b>25.27</b>	30	-4.73
				8	4	20.76	24.16	30	-5.84
				15	0	20.74	24.14	30	-5.86
	20175	1732.5	16QAM	1	0	21.59	24.99	30	-5.01
				1	14	21.61	25.01	30	-4.99
				8	4	20.55	23.95	30	-6.05
				15	0	20.46	23.86	30	-6.14
	20385	1753.5	16QAM	1	0	21.71	25.11	30	-4.89
				1	14	21.70	25.10	30	-4.9
				8	4	20.69	24.09	30	-5.91
				15	0	20.62	24.02	30	-5.98
3	19965	1711.5	64QAM	1	0	20.66	24.06	30	-5.94
				1	14	20.57	23.97	30	-6.03
				8	4	19.76	23.16	30	-6.84
				15	0	19.63	23.03	30	-6.97
	20175	1732.5	64QAM	1	0	20.46	23.86	30	-6.14
				1	14	20.48	23.88	30	-6.12
				8	4	19.54	22.94	30	-7.06
				15	0	19.47	22.87	30	-7.13
	20385	1753.5	64QAM	1	0	20.71	<b>24.11</b>	30	-5.89
				1	14	20.50	23.90	30	-6.1
				8	4	19.66	23.06	30	-6.94
				15	0	19.61	23.01	30	-6.99

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Antenna gain (dBi)		3.4							
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	22.66	26.06	30	-3.94
				1	24	22.69	<b>26.09</b>	30	-3.91
				12	6	21.69	25.09	30	-4.91
				25	0	21.57	24.97	30	-5.03
	20175	1732.5	QPSK	1	0	22.28	25.68	30	-4.32
				1	24	22.47	25.87	30	-4.13
				12	6	21.49	24.89	30	-5.11
				25	0	21.47	24.87	30	-5.13
	20375	1752.5	QPSK	1	0	22.47	25.87	30	-4.13
				1	24	22.53	25.93	30	-4.07
				12	6	21.63	25.03	30	-4.97
				25	0	21.57	24.97	30	-5.03
5	19975	1712.5	16QAM	1	0	21.82	<b>25.22</b>	30	-4.78
				1	24	21.65	25.05	30	-4.95
				12	6	20.79	24.19	30	-5.81
				25	0	20.49	23.89	30	-6.11
	20175	1732.5	16QAM	1	0	21.75	25.15	30	-4.85
				1	24	21.44	24.84	30	-5.16
				12	6	20.52	23.92	30	-6.08
				25	0	20.42	23.82	30	-6.18
	20375	1752.5	16QAM	1	0	21.61	25.01	30	-4.99
				1	24	21.63	25.03	30	-4.97
				12	6	20.59	23.99	30	-6.01
				25	0	20.61	24.01	30	-5.99
5	19975	1712.5	64QAM	1	0	21.94	<b>25.34</b>	30	-4.66
				1	24	21.69	25.09	30	-4.91
				12	6	20.71	24.11	30	-5.89
				25	0	20.59	23.99	30	-6.01
	20175	1732.5	64QAM	1	0	21.58	24.98	30	-5.02
				1	24	21.49	24.89	30	-5.11
				12	6	20.37	23.77	30	-6.23
				25	0	20.44	23.84	30	-6.16
	20375	1752.5	64QAM	1	0	21.64	25.04	30	-4.96
				1	24	21.45	24.85	30	-5.15
				12	6	20.61	24.01	30	-5.99
				25	0	20.61	24.01	30	-5.99

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Antenna gain (dBi)		3.4							
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	22.67	<b>26.07</b>	30	-3.93
				1	49	22.58	25.98	30	-4.02
				25	12	21.60	25.00	30	-5
				50	0	21.58	24.98	30	-5.02
	20175	1732.5	QPSK	1	0	22.39	25.79	30	-4.21
				1	49	22.44	25.84	30	-4.16
				25	12	21.47	24.87	30	-5.13
				50	0	21.47	24.87	30	-5.13
	20350	1750	QPSK	1	0	22.59	25.99	30	-4.01
				1	49	22.58	25.98	30	-4.02
				25	12	21.62	25.02	30	-4.98
				50	0	21.60	25.00	30	-5
10	20000	1715	16QAM	1	0	21.78	<b>25.18</b>	30	-4.82
				1	49	21.45	24.85	30	-5.15
				25	12	20.56	23.96	30	-6.04
				50	0	20.55	23.95	30	-6.05
	20175	1732.5	16QAM	1	0	21.57	24.97	30	-5.03
				1	49	21.58	24.98	30	-5.02
				25	12	20.37	23.77	30	-6.23
				50	0	20.46	23.86	30	-6.14
	20350	1750	16QAM	1	0	21.67	25.07	30	-4.93
				1	49	21.77	25.17	30	-4.83
				25	12	20.56	23.96	30	-6.04
				50	0	20.59	23.99	30	-6.01
10	20000	1715	64QAM	1	0	21.74	25.14	30	-4.86
				1	49	21.84	<b>25.24</b>	30	-4.76
				25	12	20.66	24.06	30	-5.94
				50	0	20.62	24.02	30	-5.98
	20175	1732.5	64QAM	1	0	21.51	24.91	30	-5.09
				1	49	21.48	24.88	30	-5.12
				25	12	20.53	23.93	30	-6.07
				50	0	20.51	23.91	30	-6.09
	20350	1750	64QAM	1	0	21.73	25.13	30	-4.87
				1	49	21.23	24.63	30	-5.37
				25	12	20.62	24.02	30	-5.98
				50	0	20.63	24.03	30	-5.97

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Antenna gain (dBi)		3.4							
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	22.59	25.99	30	-4.01
				1	74	22.48	25.88	30	-4.12
				36	18	21.49	24.89	30	-5.11
				75	0	21.56	24.96	30	-5.04
	20175	1732.5	QPSK	1	0	22.71	<b>26.11</b>	30	-3.89
				1	74	22.45	25.85	30	-4.15
				36	18	21.51	24.91	30	-5.09
				75	0	21.48	24.88	30	-5.12
	20325	1747.5	QPSK	1	0	22.48	25.88	30	-4.12
				1	74	22.62	26.02	30	-3.98
				36	18	21.62	25.02	30	-4.98
				75	0	21.52	24.92	30	-5.08
15	20025	1717.5	16QAM	1	0	21.99	<b>25.39</b>	30	-4.61
				1	74	21.35	24.75	30	-5.25
				36	18	20.55	23.95	30	-6.05
				75	0	20.49	23.89	30	-6.11
	20175	1732.5	16QAM	1	0	21.38	24.78	30	-5.22
				1	74	21.63	25.03	30	-4.97
				36	18	20.46	23.86	30	-6.14
				75	0	20.48	23.88	30	-6.12
	20325	1747.5	16QAM	1	0	21.95	25.35	30	-4.65
				1	74	21.42	24.82	30	-5.18
				36	18	20.65	24.05	30	-5.95
				75	0	20.48	23.88	30	-6.12
15	20025	1717.5	64QAM	1	0	21.64	25.04	30	-4.96
				1	74	21.62	25.02	30	-4.98
				36	18	20.55	23.95	30	-6.05
				75	0	20.50	23.90	30	-6.1
	20175	1732.5	64QAM	1	0	21.71	25.11	30	-4.89
				1	74	21.72	<b>25.12</b>	30	-4.88
				36	18	20.48	23.88	30	-6.12
				75	0	20.47	23.87	30	-6.13
	20325	1747.5	64QAM	1	0	21.48	24.88	30	-5.12
				1	74	21.51	24.91	30	-5.09
				36	18	20.65	24.05	30	-5.95
				75	0	20.51	23.91	30	-6.09

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Antenna gain (dBi)		3.4							
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	22.68	26.08	30	-3.92
				1	99	22.44	25.84	30	-4.16
				50	25	21.59	24.99	30	-5.01
				100	0	21.56	24.96	30	-5.04
	20175	1732.5	QPSK	1	0	22.32	25.72	30	-4.28
				1	99	22.50	25.90	30	-4.1
				50	25	21.50	24.90	30	-5.1
				100	0	21.51	24.91	30	-5.09
	20300	1745	QPSK	1	0	22.33	25.73	30	-4.27
				1	99	22.71	26.11	30	-3.89
				50	25	21.54	24.94	30	-5.06
				100	0	21.50	24.90	30	-5.1
20	20050	1720	16QAM	1	0	21.74	25.14	30	-4.86
				1	99	21.72	25.12	30	-4.88
				50	25	20.56	23.96	30	-6.04
				100	0	20.50	23.90	30	-6.1
	20175	1732.5	16QAM	1	0	21.62	25.02	30	-4.98
				1	99	21.74	25.14	30	-4.86
				50	25	20.48	23.88	30	-6.12
				100	0	20.46	23.86	30	-6.14
	20300	1745	16QAM	1	0	21.76	25.16	30	-4.84
				1	99	21.67	25.07	30	-4.93
				50	25	20.53	23.93	30	-6.07
				100	0	20.49	23.89	30	-6.11
20	20050	1720	64QAM	1	0	21.76	25.16	30	-4.84
				1	99	21.79	25.19	30	-4.81
				50	25	20.54	23.94	30	-6.06
				100	0	20.53	23.93	30	-6.07
	20175	1732.5	64QAM	1	0	21.56	24.96	30	-5.04
				1	99	21.51	24.91	30	-5.09
				50	25	20.53	23.93	30	-6.07
				100	0	20.44	23.84	30	-6.16
	20300	1745	64QAM	1	0	21.53	24.93	30	-5.07
				1	99	21.78	25.18	30	-4.82
				50	25	20.50	23.90	30	-6.1
				100	0	20.56	23.96	30	-6.04

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Antenna gain (dBi)		3.2								
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	22.44	23.49	25.64	38.45	-14.96
				1	5	22.52	23.57	25.72	38.45	-14.88
				3	2	22.57	23.62	25.77	38.45	-14.83
				6	0	21.55	22.60	24.75	38.45	-15.85
	20525	836.5	QPSK	1	0	22.61	<b>23.66</b>	25.81	38.45	-14.79
				1	5	22.46	23.51	25.66	38.45	-14.94
				3	2	22.58	23.63	25.78	38.45	-14.82
				6	0	21.56	22.61	24.76	38.45	-15.84
	20643	848.3	QPSK	1	0	22.54	23.59	25.74	38.45	-14.86
				1	5	22.54	23.59	25.74	38.45	-14.86
				3	2	22.59	23.64	25.79	38.45	-14.81
				6	0	21.54	22.59	24.74	38.45	-15.86
1.4	20407	824.7	16QAM	1	0	21.65	22.70	24.85	38.45	-15.75
				1	5	21.64	22.69	24.84	38.45	-15.76
				3	2	21.53	22.58	24.73	38.45	-15.87
				6	0	20.65	21.70	23.85	38.45	-16.75
	20525	836.5	16QAM	1	0	21.72	22.77	24.92	38.45	-15.68
				1	5	21.74	22.79	24.94	38.45	-15.66
				3	2	21.47	22.52	24.67	38.45	-15.93
				6	0	20.69	21.74	23.89	38.45	-16.71
	20643	848.3	16QAM	1	0	21.85	<b>22.90</b>	25.05	38.45	-15.55
				1	5	21.56	22.61	24.76	38.45	-15.84
				3	2	21.50	22.55	24.70	38.45	-15.90
				6	0	20.54	21.59	23.74	38.45	-16.86
1.4	20407	824.7	64QAM	1	0	20.47	21.52	23.67	38.45	-16.93
				1	5	20.55	21.60	23.75	38.45	-16.85
				3	2	20.78	<b>21.83</b>	23.98	38.45	-16.62
				6	0	19.46	20.51	22.66	38.45	-17.94
	20525	836.5	64QAM	1	0	20.61	21.66	23.81	38.45	-16.79
				1	5	20.36	21.41	23.56	38.45	-17.04
				3	2	20.71	21.76	23.91	38.45	-16.69
				6	0	19.44	20.49	22.64	38.45	-17.96
	20643	848.3	64QAM	1	0	20.70	21.75	23.90	38.45	-16.70
				1	5	20.58	21.63	23.78	38.45	-16.82
				3	2	20.72	21.77	23.92	38.45	-16.68
				6	0	19.53	20.58	22.73	38.45	-17.87

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Antenna gain (dBi)		3.2								
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	22.66	23.71	25.86	38.45	-14.74
				1	14	22.35	23.40	25.55	38.45	-15.05
				8	4	21.65	22.70	24.85	38.45	-15.75
				15	0	21.59	22.64	24.79	38.45	-15.81
	20525	836.5	QPSK	1	0	22.61	23.66	25.81	38.45	-14.79
				1	14	22.57	23.62	25.77	38.45	-14.83
				8	4	21.67	22.72	24.87	38.45	-15.73
				15	0	21.65	22.70	24.85	38.45	-15.75
	20635	847.5	QPSK	1	0	22.55	23.60	25.75	38.45	-14.85
				1	14	22.59	23.64	25.79	38.45	-14.81
				8	4	21.56	22.61	24.76	38.45	-15.84
				15	0	21.57	22.62	24.77	38.45	-15.83
3	20415	825.5	16QAM	1	0	21.69	22.74	24.89	38.45	-15.71
				1	14	21.65	22.70	24.85	38.45	-15.75
				8	4	20.52	21.57	23.72	38.45	-16.88
				15	0	20.60	21.65	23.80	38.45	-16.80
	20525	836.5	16QAM	1	0	21.78	22.83	24.98	38.45	-15.62
				1	14	21.65	22.70	24.85	38.45	-15.75
				8	4	20.68	21.73	23.88	38.45	-16.72
				15	0	20.62	21.67	23.82	38.45	-16.78
	20635	847.5	16QAM	1	0	21.61	22.66	24.81	38.45	-15.79
				1	14	21.73	22.78	24.93	38.45	-15.67
				8	4	20.64	21.69	23.84	38.45	-16.76
				15	0	20.63	21.68	23.83	38.45	-16.77
3	20415	825.5	64QAM	1	0	20.55	21.60	23.75	38.45	-16.85
				1	14	20.72	21.77	23.92	38.45	-16.68
				8	4	19.74	20.79	22.94	38.45	-17.66
				15	0	19.59	20.64	22.79	38.45	-17.81
	20525	836.5	64QAM	1	0	20.58	21.63	23.78	38.45	-16.82
				1	14	20.71	21.76	23.91	38.45	-16.69
				8	4	19.65	20.70	22.85	38.45	-17.75
				15	0	19.60	20.65	22.80	38.45	-17.80
	20635	847.5	64QAM	1	0	20.61	21.66	23.81	38.45	-16.79
				1	14	20.74	21.79	23.94	38.45	-16.66
				8	4	19.66	20.71	22.86	38.45	-17.74
				15	0	19.58	20.63	22.78	38.45	-17.82

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Antenna gain (dBi)		3.2								
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	22.86	23.91	26.06	38.45	-14.54
				1	24	22.49	23.54	25.69	38.45	-14.91
				12	6	21.62	22.67	24.82	38.45	-15.78
				25	0	21.63	22.68	24.83	38.45	-15.77
	20525	836.5	QPSK	1	0	22.64	23.69	25.84	38.45	-14.76
				1	24	22.55	23.60	25.75	38.45	-14.85
				12	6	21.63	22.68	24.83	38.45	-15.77
				25	0	21.63	22.68	24.83	38.45	-15.77
	20625	846.5	QPSK	1	0	22.69	23.74	25.89	38.45	-14.71
				1	24	22.53	23.58	25.73	38.45	-14.87
				12	6	21.65	22.70	24.85	38.45	-15.75
				25	0	21.62	22.67	24.82	38.45	-15.78
5	20425	826.5	16QAM	1	0	21.62	22.67	24.82	38.45	-15.78
				1	24	21.66	22.71	24.86	38.45	-15.74
				12	6	20.56	21.61	23.76	38.45	-16.84
				25	0	20.58	21.63	23.78	38.45	-16.82
	20525	836.5	16QAM	1	0	21.94	22.99	25.14	38.45	-15.46
				1	24	21.52	22.57	24.72	38.45	-15.88
				12	6	20.70	21.75	23.90	38.45	-16.70
				25	0	20.69	21.74	23.89	38.45	-16.71
	20625	846.5	16QAM	1	0	21.65	22.70	24.85	38.45	-15.75
				1	24	21.48	22.53	24.68	38.45	-15.92
				12	6	20.64	21.69	23.84	38.45	-16.76
				25	0	20.49	21.54	23.69	38.45	-16.91
5	20425	826.5	64QAM	1	0	20.74	21.79	23.94	38.45	-16.66
				1	24	20.64	21.69	23.84	38.45	-16.76
				12	6	19.69	20.74	22.89	38.45	-17.71
				25	0	19.51	20.56	22.71	38.45	-17.89
	20525	836.5	64QAM	1	0	20.78	21.83	23.98	38.45	-16.62
				1	24	20.67	21.72	23.87	38.45	-16.73
				12	6	19.72	20.77	22.92	38.45	-17.68
				25	0	19.65	20.70	22.85	38.45	-17.75
	20625	846.5	64QAM	1	0	20.66	21.71	23.86	38.45	-16.74
				1	24	20.58	21.63	23.78	38.45	-16.82
				12	6	19.67	20.72	22.87	38.45	-17.73
				25	0	19.54	20.59	22.74	38.45	-17.86

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Antenna gain (dBi)		3.2								
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	22.57	23.62	25.77	38.45	-14.83
				1	49	22.58	23.63	25.78	38.45	-14.82
				25	12	21.73	22.78	24.93	38.45	-15.67
				50	0	21.76	22.81	24.96	38.45	-15.64
	20525	836.5	QPSK	1	0	22.69	23.74	25.89	38.45	-14.71
				1	49	22.49	23.54	25.69	38.45	-14.91
				25	12	21.68	22.73	24.88	38.45	-15.72
				50	0	21.61	22.66	24.81	38.45	-15.79
	20600	844	QPSK	1	0	22.49	23.54	25.69	38.45	-14.91
				1	49	22.52	23.57	25.72	38.45	-14.88
				25	12	21.64	22.69	24.84	38.45	-15.76
				50	0	21.54	22.59	24.74	38.45	-15.86
10	20450	829	16QAM	1	0	21.75	22.80	24.95	38.45	-15.65
				1	49	21.82	22.87	25.02	38.45	-15.58
				25	12	20.75	21.80	23.95	38.45	-16.65
				50	0	20.71	21.76	23.91	38.45	-16.69
	20525	836.5	16QAM	1	0	21.74	22.79	24.94	38.45	-15.66
				1	49	21.63	22.68	24.83	38.45	-15.77
				25	12	20.47	21.52	23.67	38.45	-16.93
				50	0	20.65	21.70	23.85	38.45	-16.75
	20600	844	16QAM	1	0	21.78	22.83	24.98	38.45	-15.62
				1	49	21.87	22.92	25.07	38.45	-15.53
				25	12	20.60	21.65	23.80	38.45	-16.80
				50	0	20.51	21.56	23.71	38.45	-16.89
10	20450	829	64QAM	1	0	20.56	21.61	23.76	38.45	-16.84
				1	49	20.71	21.76	23.91	38.45	-16.69
				25	12	19.72	20.77	22.92	38.45	-17.68
				50	0	19.74	20.79	22.94	38.45	-17.66
	20525	836.5	64QAM	1	0	20.74	21.79	23.94	38.45	-16.66
				1	49	20.53	21.58	23.73	38.45	-16.87
				25	12	19.66	20.71	22.86	38.45	-17.74
				50	0	19.66	20.71	22.86	38.45	-17.74
	20600	844	64QAM	1	0	20.64	21.69	23.84	38.45	-16.76
				1	49	20.69	21.74	23.89	38.45	-16.71
				25	12	19.64	20.69	22.84	38.45	-17.76
				50	0	19.54	20.59	22.74	38.45	-17.86

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Antenna gain (dBi)		3.12							
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	22.34	25.46	33	-7.54
				1	24	22.54	25.66	33	-7.34
				12	6	21.53	24.65	33	-8.35
				25	0	21.48	24.60	33	-8.4
	21100	2535	QPSK	1	0	22.50	25.62	33	-7.38
				1	24	22.67	25.79	33	-7.21
				12	6	21.60	24.72	33	-8.28
				25	0	21.54	24.66	33	-8.34
	21425	2567.5	QPSK	1	0	22.41	25.53	33	-7.47
				1	24	22.40	25.52	33	-7.48
				12	6	21.51	24.63	33	-8.37
				25	0	21.47	24.59	33	-8.41
5	20775	2502.5	16QAM	1	0	21.62	24.74	33	-8.26
				1	24	21.35	24.47	33	-8.53
				12	6	20.51	23.63	33	-9.37
				25	0	20.52	23.64	33	-9.36
	21100	2535	16QAM	1	0	21.44	24.56	33	-8.44
				1	24	21.65	24.77	33	-8.23
				12	6	20.60	23.72	33	-9.28
				25	0	20.55	23.67	33	-9.33
	21425	2567.5	16QAM	1	0	21.70	24.82	33	-8.18
				1	24	21.44	24.56	33	-8.44
				12	6	20.44	23.56	33	-9.44
				25	0	20.50	23.62	33	-9.38
5	20775	2502.5	64QAM	1	0	20.63	23.75	33	-9.25
				1	24	20.57	23.69	33	-9.31
				12	6	19.59	22.71	33	-10.29
				25	0	19.47	22.59	33	-10.41
	21100	2535	64QAM	1	0	20.55	23.67	33	-9.33
				1	24	20.45	23.57	33	-9.43
				12	6	19.64	22.76	33	-10.24
				25	0	19.58	22.70	33	-10.3
	21425	2567.5	64QAM	1	0	20.59	23.71	33	-9.29
				1	24	20.33	23.45	33	-9.55
				12	6	19.48	22.60	33	-10.4
				25	0	19.45	22.57	33	-10.43

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Antenna gain (dBi)		3.12							
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	22.69	25.81	33	-7.19
				1	49	22.48	25.60	33	-7.4
				25	12	21.54	24.66	33	-8.34
				50	0	21.48	24.60	33	-8.4
	21100	2535	QPSK	1	0	22.43	25.55	33	-7.45
				1	49	22.55	25.67	33	-7.33
				25	12	21.55	24.67	33	-8.33
				50	0	21.58	24.70	33	-8.3
	21400	2565	QPSK	1	0	22.43	25.55	33	-7.45
				1	49	22.47	25.59	33	-7.41
				25	12	21.48	24.60	33	-8.4
				50	0	21.50	24.62	33	-8.38
10	20800	2505	16QAM	1	0	21.52	24.64	33	-8.36
				1	49	21.74	24.86	33	-8.14
				25	12	20.57	23.69	33	-9.31
				50	0	20.59	23.71	33	-9.29
	21100	2535	16QAM	1	0	21.62	24.74	33	-8.26
				1	49	21.72	24.84	33	-8.16
				25	12	20.65	23.77	33	-9.23
				50	0	20.59	23.71	33	-9.29
	21400	2565	16QAM	1	0	21.47	24.59	33	-8.41
				1	49	21.77	24.89	33	-8.11
				25	12	20.47	23.59	33	-9.41
				50	0	20.47	23.59	33	-9.41
10	20800	2505	64QAM	1	0	20.64	23.76	33	-9.24
				1	49	20.67	23.79	33	-9.21
				25	12	19.60	22.72	33	-10.28
				50	0	19.52	22.64	33	-10.36
	21100	2535	64QAM	1	0	20.68	23.80	33	-9.2
				1	49	20.76	23.88	33	-9.12
				25	12	19.67	22.79	33	-10.21
				50	0	19.62	22.74	33	-10.26
	21400	2565	64QAM	1	0	20.56	23.68	33	-9.32
				1	49	20.53	23.65	33	-9.35
				25	12	19.52	22.64	33	-10.36
				50	0	19.51	22.63	33	-10.37

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Antenna gain (dBi)		3.12							
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	22.63	25.75	33	-7.25
				1	74	22.52	25.64	33	-7.36
				36	18	21.50	24.62	33	-8.38
				75	0	21.56	24.68	33	-8.32
	21100	2535	QPSK	1	0	22.55	25.67	33	-7.33
				1	74	22.59	25.71	33	-7.29
				36	18	21.62	24.74	33	-8.26
				75	0	21.56	24.68	33	-8.32
	21375	2562.5	QPSK	1	0	22.74	<b>25.86</b>	33	-7.14
				1	74	22.73	25.85	33	-7.15
				36	18	21.45	24.57	33	-8.43
				75	0	21.59	24.71	33	-8.29
15	20825	2507.5	16QAM	1	0	21.64	24.76	33	-8.24
				1	74	21.87	24.99	33	-8.01
				36	18	20.56	23.68	33	-9.32
				75	0	20.50	23.62	33	-9.38
	21100	2535	16QAM	1	0	21.83	24.95	33	-8.05
				1	74	21.91	<b>25.03</b>	33	-7.97
				36	18	20.59	23.71	33	-9.29
				75	0	20.56	23.68	33	-9.32
	21375	2562.5	16QAM	1	0	21.80	24.92	33	-8.08
				1	74	21.77	24.89	33	-8.11
				36	18	20.48	23.60	33	-9.4
				75	0	20.65	23.77	33	-9.23
15	20825	2507.5	64QAM	1	0	20.51	23.63	33	-9.37
				1	74	20.56	23.68	33	-9.32
				36	18	19.58	22.70	33	-10.3
				75	0	19.53	22.65	33	-10.35
	21100	2535	64QAM	1	0	20.49	23.61	33	-9.39
				1	74	20.80	<b>23.92</b>	33	-9.08
				36	18	19.63	22.75	33	-10.25
				75	0	19.58	22.70	33	-10.3
	21375	2562.5	64QAM	1	0	20.75	23.87	33	-9.13
				1	74	20.50	23.62	33	-9.38
				36	18	19.56	22.68	33	-10.32
				75	0	19.59	22.71	33	-10.29

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Antenna gain (dBi)		3.12							
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	22.60	25.72	33	-7.28
				1	99	22.54	25.66	33	-7.34
				50	25	21.52	24.64	33	-8.36
				100	0	21.48	24.60	33	-8.4
	21100	2535	QPSK	1	0	22.50	25.62	33	-7.38
				1	99	22.52	25.64	33	-7.36
				50	25	21.59	24.71	33	-8.29
				100	0	21.60	24.72	33	-8.28
	21350	2560	QPSK	1	0	22.53	25.65	33	-7.35
				1	99	22.55	25.67	33	-7.33
				50	25	21.61	24.73	33	-8.27
				100	0	21.38	24.50	33	-8.5
20	20850	2510	QPSK	1	0	21.76	24.88	33	-8.12
				1	99	21.28	24.40	33	-8.6
				50	25	20.60	23.72	33	-9.28
				100	0	20.47	23.59	33	-9.41
	21100	2535	QPSK	1	0	21.68	24.80	33	-8.2
				1	99	21.54	24.66	33	-8.34
				50	25	20.60	23.72	33	-9.28
				100	0	20.58	23.70	33	-9.3
	21350	2560	QPSK	1	0	21.81	24.93	33	-8.07
				1	99	21.75	24.87	33	-8.13
				50	25	20.66	23.78	33	-9.22
				100	0	20.62	23.74	33	-9.26
20	20850	2510	QPSK	1	0	20.75	23.87	33	-9.13
				1	99	20.61	23.73	33	-9.27
				50	25	19.56	22.68	33	-10.32
				100	0	19.43	22.55	33	-10.45
	21100	2535	QPSK	1	0	20.68	23.80	33	-9.2
				1	99	20.63	23.75	33	-9.25
				50	25	19.60	22.72	33	-10.28
				100	0	19.62	22.74	33	-10.26
	21350	2560	QPSK	1	0	20.40	23.52	33	-9.48
				1	99	20.52	23.64	33	-9.36
				50	25	19.59	22.71	33	-10.29
				100	0	19.66	22.78	33	-10.22

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Antenna gain (dBi)		2.51								
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	22.54	22.90	25.05	34.77	-11.87
				1	5	22.56	22.92	25.07	34.77	-11.85
				3	2	22.66	23.02	25.17	34.77	-11.75
				6	0	21.61	21.97	24.12	34.77	-12.80
	23095	707.5	QPSK	1	0	22.72	23.08	25.23	34.77	-11.69
				1	5	22.63	22.99	25.14	34.77	-11.78
				3	2	22.65	23.01	25.16	34.77	-11.76
				6	0	21.60	21.96	24.11	34.77	-12.81
	23173	715.5	QPSK	1	0	22.64	23.00	25.15	34.77	-11.77
				1	5	22.54	22.90	25.05	34.77	-11.87
				3	2	22.78	23.14	25.29	34.77	-11.63
				6	0	21.66	22.02	24.17	34.77	-12.75
1.4	23017	699.7	16QAM	1	0	21.62	21.98	24.13	34.77	-12.79
				1	5	21.76	22.12	24.27	34.77	-12.65
				3	2	21.64	22.00	24.15	34.77	-12.77
				6	0	20.58	20.94	23.09	34.77	-13.83
	23095	707.5	16QAM	1	0	21.82	22.18	24.33	34.77	-12.59
				1	5	21.68	22.04	24.19	34.77	-12.73
				3	2	21.58	21.94	24.09	34.77	-12.83
				6	0	20.74	21.10	23.25	34.77	-13.67
	23173	715.5	16QAM	1	0	21.71	22.07	24.22	34.77	-12.70
				1	5	21.85	22.21	24.36	34.77	-12.56
				3	2	21.64	22.00	24.15	34.77	-12.77
				6	0	20.66	21.02	23.17	34.77	-13.75
1.4	23017	699.7	64QAM	1	0	20.85	21.21	23.36	34.77	-13.56
				1	5	20.77	21.13	23.28	34.77	-13.64
				3	2	20.70	21.06	23.21	34.77	-13.71
				6	0	19.63	19.99	22.14	34.77	-14.78
	23095	707.5	64QAM	1	0	20.78	21.14	23.29	34.77	-13.63
				1	5	20.72	21.08	23.23	34.77	-13.69
				3	2	20.66	21.02	23.17	34.77	-13.75
				6	0	19.62	19.98	22.13	34.77	-14.79
	23173	715.5	64QAM	1	0	20.65	21.01	23.16	34.77	-13.76
				1	5	20.81	21.17	23.32	34.77	-13.60
				3	2	20.92	21.28	23.43	34.77	-13.49
				6	0	19.75	20.11	22.26	34.77	-14.66

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Antenna gain (dBi)		2.51								
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	22.58	22.94	25.09	34.77	-11.83
				1	14	22.50	22.86	25.01	34.77	-11.91
				8	4	21.62	21.98	24.13	34.77	-12.79
				15	0	21.70	22.06	24.21	34.77	-12.71
	23095	707.5	QPSK	1	0	22.53	22.89	25.04	34.77	-11.88
				1	14	22.58	22.94	25.09	34.77	-11.83
				8	4	21.65	22.01	24.16	34.77	-12.76
				15	0	21.64	22.00	24.15	34.77	-12.77
	23165	714.5	QPSK	1	0	22.74	23.10	25.25	34.77	-11.67
				1	14	22.65	23.01	25.16	34.77	-11.76
				8	4	21.77	22.13	24.28	34.77	-12.64
				15	0	21.58	21.94	24.09	34.77	-12.83
3	23025	700.5	16QAM	1	0	21.90	22.26	24.41	34.77	-12.51
				1	14	21.69	22.05	24.20	34.77	-12.72
				8	4	20.82	21.18	23.33	34.77	-13.59
				15	0	20.67	21.03	23.18	34.77	-13.74
	23095	707.5	16QAM	1	0	21.83	22.19	24.34	34.77	-12.58
				1	14	21.65	22.01	24.16	34.77	-12.76
				8	4	20.82	21.18	23.33	34.77	-13.59
				15	0	20.67	21.03	23.18	34.77	-13.74
	23165	714.5	16QAM	1	0	21.73	22.09	24.24	34.77	-12.68
				1	14	21.81	22.17	24.32	34.77	-12.60
				8	4	20.91	21.27	23.42	34.77	-13.50
				15	0	20.78	21.14	23.29	34.77	-13.63
3	23025	700.5	64QAM	1	0	20.63	20.99	23.14	34.77	-13.78
				1	14	20.81	21.17	23.32	34.77	-13.60
				8	4	19.68	20.04	22.19	34.77	-14.73
				15	0	19.59	19.95	22.10	34.77	-14.82
	23095	707.5	64QAM	1	0	20.96	21.32	23.47	34.77	-13.45
				1	14	20.64	21.00	23.15	34.77	-13.77
				8	4	19.79	20.15	22.30	34.77	-14.62
				15	0	19.64	20.00	22.15	34.77	-14.77
	23165	714.5	64QAM	1	0	20.79	21.15	23.30	34.77	-13.62
				1	14	20.81	21.17	23.32	34.77	-13.60
				8	4	19.77	20.13	22.28	34.77	-14.64
				15	0	19.63	19.99	22.14	34.77	-14.78

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Antenna gain (dBi)		2.51								
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	22.60	22.96	25.11	34.77	-11.81
				1	24	22.78	23.14	25.29	34.77	-11.63
				12	6	21.68	22.04	24.19	34.77	-12.73
				25	0	21.72	22.08	24.23	34.77	-12.69
	23095	707.5	QPSK	1	0	23.01	<b>23.37</b>	25.52	34.77	-11.40
				1	24	22.63	22.99	25.14	34.77	-11.78
				12	6	21.70	22.06	24.21	34.77	-12.71
				25	0	21.68	22.04	24.19	34.77	-12.73
	23155	713.5	QPSK	1	0	22.72	23.08	25.23	34.77	-11.69
				1	24	22.58	22.94	25.09	34.77	-11.83
				12	6	21.75	22.11	24.26	34.77	-12.66
				25	0	21.64	22.00	24.15	34.77	-12.77
5	23035	701.5	16QAM	1	0	21.62	21.98	24.13	34.77	-12.79
				1	24	21.89	22.25	24.40	34.77	-12.52
				12	6	20.72	21.08	23.23	34.77	-13.69
				25	0	20.77	21.13	23.28	34.77	-13.64
	23095	707.5	16QAM	1	0	21.69	22.05	24.20	34.77	-12.72
				1	24	21.54	21.90	24.05	34.77	-12.87
				12	6	20.70	21.06	23.21	34.77	-13.71
				25	0	20.56	20.92	23.07	34.77	-13.85
	23155	713.5	16QAM	1	0	22.09	<b>22.45</b>	24.60	34.77	-12.32
				1	24	21.63	21.99	24.14	34.77	-12.78
				12	6	20.74	21.10	23.25	34.77	-13.67
				25	0	20.64	21.00	23.15	34.77	-13.77
5	23035	701.5	64QAM	1	0	20.64	21.00	23.15	34.77	-13.77
				1	24	20.82	21.18	23.33	34.77	-13.59
				12	6	19.72	20.08	22.23	34.77	-14.69
				25	0	19.77	20.13	22.28	34.77	-14.64
	23095	707.5	64QAM	1	0	20.63	20.99	23.14	34.77	-13.78
				1	24	20.79	21.15	23.30	34.77	-13.62
				12	6	19.75	20.11	22.26	34.77	-14.66
				25	0	19.68	20.04	22.19	34.77	-14.73
	23155	713.5	64QAM	1	0	20.90	21.26	23.41	34.77	-13.51
				1	24	20.92	<b>21.28</b>	23.43	34.77	-13.49
				12	6	19.75	20.11	22.26	34.77	-14.66
				25	0	19.77	20.13	22.28	34.77	-14.64

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Antenna gain (dBi)		2.51								
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	22.70	23.06	25.21	34.77	-11.71
				1	49	22.56	22.92	25.07	34.77	-11.85
				25	12	21.77	22.13	24.28	34.77	-12.64
				50	0	21.86	22.22	24.37	34.77	-12.55
	23095	707.5	QPSK	1	0	22.55	22.91	25.06	34.77	-11.86
				1	49	22.59	22.95	25.10	34.77	-11.82
				25	12	21.70	22.06	24.21	34.77	-12.71
				50	0	21.73	22.09	24.24	34.77	-12.68
	23130	711	QPSK	1	0	22.60	22.96	25.11	34.77	-11.81
				1	49	22.67	23.03	25.18	34.77	-11.74
				25	12	21.73	22.09	24.24	34.77	-12.68
				50	0	21.56	21.92	24.07	34.77	-12.85
10	23060	704	16QAM	1	0	21.75	22.11	24.26	34.77	-12.66
				1	49	21.96	22.32	24.47	34.77	-12.45
				25	12	20.84	21.20	23.35	34.77	-13.57
				50	0	20.69	21.05	23.20	34.77	-13.72
	23095	707.5	16QAM	1	0	21.77	22.13	24.28	34.77	-12.64
				1	49	22.03	22.39	24.54	34.77	-12.38
				25	12	20.65	21.01	23.16	34.77	-13.76
				50	0	20.78	21.14	23.29	34.77	-13.63
	23130	711	16QAM	1	0	21.69	22.05	24.20	34.77	-12.72
				1	49	21.93	22.29	24.44	34.77	-12.48
				25	12	20.62	20.98	23.13	34.77	-13.79
				50	0	20.77	21.13	23.28	34.77	-13.64
10	23060	704	64QAM	1	0	20.80	21.16	23.31	34.77	-13.61
				1	49	20.72	21.08	23.23	34.77	-13.69
				25	12	19.83	20.19	22.34	34.77	-14.58
				50	0	19.74	20.10	22.25	34.77	-14.67
	23095	707.5	64QAM	1	0	20.78	21.14	23.29	34.77	-13.63
				1	49	20.47	20.83	22.98	34.77	-13.94
				25	12	19.71	20.07	22.22	34.77	-14.70
				50	0	19.57	19.93	22.08	34.77	-14.84
	23130	711	64QAM	1	0	20.62	20.98	23.13	34.77	-13.79
				1	49	20.84	21.20	23.35	34.77	-13.57
				25	12	19.77	20.13	22.28	34.77	-14.64
				50	0	19.58	19.94	22.09	34.77	-14.83

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Antenna gain (dBi)		2.51								
LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23205	779.5	QPSK	1	0	22.49	22.85	25.00	34.77	-11.92
				1	24	22.45	22.81	24.96	34.77	-11.96
				12	6	21.69	22.05	24.20	34.77	-12.72
				25	0	21.58	21.94	24.09	34.77	-12.83
	23230	782	QPSK	1	0	22.60	22.96	25.11	34.77	-11.81
				1	24	22.42	22.78	24.93	34.77	-11.99
				12	6	21.54	21.90	24.05	34.77	-12.87
				25	0	21.55	21.91	24.06	34.77	-12.86
	23255	784.5	QPSK	1	0	22.64	<b>23.00</b>	25.15	34.77	-11.77
				1	24	22.43	22.79	24.94	34.77	-11.98
				12	6	21.54	21.90	24.05	34.77	-12.87
				25	0	21.43	21.79	23.94	34.77	-12.98
5	23205	779.5	16QAM	1	0	21.33	21.69	23.84	34.77	-13.08
				1	24	21.56	21.92	24.07	34.77	-12.85
				12	6	20.71	21.07	23.22	34.77	-13.70
				25	0	20.61	20.97	23.12	34.77	-13.80
	23230	782	16QAM	1	0	21.76	<b>22.12</b>	24.27	34.77	-12.65
				1	24	21.75	22.11	24.26	34.77	-12.66
				12	6	20.57	20.93	23.08	34.77	-13.84
				25	0	20.56	20.92	23.07	34.77	-13.85
	23255	784.5	16QAM	1	0	21.71	22.07	24.22	34.77	-12.70
				1	24	21.55	21.91	24.06	34.77	-12.86
				12	6	20.57	20.93	23.08	34.77	-13.84
				25	0	20.48	20.84	22.99	34.77	-13.93
5	23205	779.5	64QAM	1	0	20.70	21.06	23.21	34.77	-13.71
				1	24	20.30	20.66	22.81	34.77	-14.11
				12	6	19.66	20.02	22.17	34.77	-14.75
				25	0	19.58	19.94	22.09	34.77	-14.83
	23230	782	64QAM	1	0	20.57	20.93	23.08	34.77	-13.84
				1	24	20.65	21.01	23.16	34.77	-13.76
				12	6	19.64	20.00	22.15	34.77	-14.77
				25	0	19.48	19.84	21.99	34.77	-14.93
	23255	784.5	64QAM	1	0	20.76	<b>21.12</b>	23.27	34.77	-13.65
				1	24	20.48	20.84	22.99	34.77	-13.93
				12	6	19.53	19.89	22.04	34.77	-14.88
				25	0	19.49	19.85	22.00	34.77	-14.92

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Antenna gain (dBi)	2.51
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LTE Band 13_Uplink frequency band : 777 to 787 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23230	782	QPSK	1	0	22.52	<b>22.88</b>	25.03	34.77	-11.89
				1	49	22.35	22.71	24.86	34.77	-12.06
				25	12	21.52	21.88	24.03	34.77	-12.89
				50	0	21.49	21.85	24.00	34.77	-12.92
10	23230	782	16QAM	1	0	21.4	21.76	23.91	34.77	-13.01
				1	49	22.01	<b>22.37</b>	24.52	34.77	-12.40
				25	12	20.63	20.99	23.14	34.77	-13.78
				50	0	20.59	20.95	23.10	34.77	-13.82
10	23230	782	64QAM	1	0	20.83	<b>21.19</b>	23.34	34.77	-13.58
				1	49	20.58	20.94	23.09	34.77	-13.83
				25	12	19.53	19.89	22.04	34.77	-14.88
				50	0	19.69	20.05	22.20	34.77	-14.72

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Antenna gain (dBi)		2.51								
LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
5	23305	790.5	QPSK	1	0	22.49	22.85	25.00	34.77	-11.92
				1	24	22.57	22.93	25.08	34.77	-11.84
				12	6	21.58	21.94	24.09	34.77	-12.83
				25	0	21.61	21.97	24.12	34.77	-12.80
	23330	793	QPSK	1	0	22.57	22.93	25.08	34.77	-11.84
				1	24	22.56	22.92	25.07	34.77	-11.85
				12	6	21.51	21.87	24.02	34.77	-12.90
				25	0	21.55	21.91	24.06	34.77	-12.86
	23355	795.5	QPSK	1	0	22.59	<b>22.95</b>	25.10	34.77	-11.82
				1	24	22.50	22.86	25.01	34.77	-11.91
				12	6	21.55	21.91	24.06	34.77	-12.86
				25	0	21.52	21.88	24.03	34.77	-12.89
5	23305	790.5	16QAM	1	0	21.73	22.09	24.24	34.77	-12.68
				1	24	21.68	22.04	24.19	34.77	-12.73
				12	6	20.70	21.06	23.21	34.77	-13.71
				25	0	20.65	21.01	23.16	34.77	-13.76
	23330	793	16QAM	1	0	21.67	22.03	24.18	34.77	-12.74
				1	24	21.53	21.89	24.04	34.77	-12.88
				12	6	20.55	20.91	23.06	34.77	-13.86
				25	0	20.42	20.78	22.93	34.77	-13.99
	23355	795.5	16QAM	1	0	21.76	<b>22.12</b>	24.27	34.77	-12.65
				1	24	21.57	21.93	24.08	34.77	-12.84
				12	6	20.58	20.94	23.09	34.77	-13.83
				25	0	20.61	20.97	23.12	34.77	-13.80
5	23305	790.5	64QAM	1	0	21.25	<b>21.61</b>	23.76	34.77	-13.16
				1	24	20.59	20.95	23.10	34.77	-13.82
				12	6	19.64	20.00	22.15	34.77	-14.77
				25	0	19.64	20.00	22.15	34.77	-14.77
	23330	793	64QAM	1	0	20.58	20.94	23.09	34.77	-13.83
				1	24	20.41	20.77	22.92	34.77	-14.00
				12	6	19.66	20.02	22.17	34.77	-14.75
				25	0	19.53	19.89	22.04	34.77	-14.88
	23355	795.5	64QAM	1	0	20.37	20.73	22.88	34.77	-14.04
				1	24	20.56	20.92	23.07	34.77	-13.85
				12	6	19.59	19.95	22.10	34.77	-14.82
				25	0	19.53	19.89	22.04	34.77	-14.88

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Antenna gain (dBi)	2.51
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LTE Band 14_Uplink frequency band : 788 to 798 MHz										
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	ERP Average (dBm)	EIRP Average (dBm)	ERP Limit (dBm)	Margin (dB)
10	23330	793	QPSK	1	0	22.48	<b>22.84</b>	24.99	34.77	-11.93
				1	49	22.39	22.75	24.90	34.77	-12.02
				25	12	21.57	21.93	24.08	34.77	-12.84
				50	0	21.54	21.90	24.05	34.77	-12.87
10	23330	793	16QAM	1	0	22.18	<b>22.54</b>	24.69	34.77	-12.23
				1	49	21.72	22.08	24.23	34.77	-12.69
				25	12	20.46	20.82	22.97	34.77	-13.95
				50	0	20.58	20.94	23.09	34.77	-13.83
10	23330	793	64QAM	1	0	20.71	21.07	23.22	34.77	-13.70
				1	49	20.78	<b>21.14</b>	23.29	34.77	-13.63
				25	12	19.6	19.96	22.11	34.77	-14.81
				50	0	19.64	20.00	22.15	34.77	-14.77

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Antenna gain (dBi)		2.51								
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	22.58	22.94	25.09	34.77	-11.83
				1	24	22.66	23.02	25.17	34.77	-11.75
				12	6	21.76	22.12	24.27	34.77	-12.65
				25	0	21.69	22.05	24.20	34.77	-12.72
	23790	710	QPSK	1	0	22.64	23.00	25.15	34.77	-11.77
				1	24	22.58	22.94	25.09	34.77	-11.83
				12	6	21.53	21.89	24.04	34.77	-12.88
				25	0	21.57	21.93	24.08	34.77	-12.84
	23825	713.5	QPSK	1	0	22.60	22.96	25.11	34.77	-11.81
				1	24	22.54	22.90	25.05	34.77	-11.87
				12	6	21.65	22.01	24.16	34.77	-12.76
				25	0	21.57	21.93	24.08	34.77	-12.84
5	23755	706.5	16QAM	1	0	21.74	22.10	24.25	34.77	-12.67
				1	24	22.19	22.55	24.70	34.77	-12.22
				12	6	20.81	21.17	23.32	34.77	-13.60
				25	0	20.72	21.08	23.23	34.77	-13.69
	23790	710	16QAM	1	0	21.74	22.10	24.25	34.77	-12.67
				1	24	21.74	22.10	24.25	34.77	-12.67
				12	6	20.73	21.09	23.24	34.77	-13.68
				25	0	20.66	21.02	23.17	34.77	-13.75
	23825	713.5	16QAM	1	0	21.70	22.06	24.21	34.77	-12.71
				1	24	21.78	22.14	24.29	34.77	-12.63
				12	6	20.68	21.04	23.19	34.77	-13.73
				25	0	20.67	21.03	23.18	34.77	-13.74
5	23755	706.5	64QAM	1	0	20.73	21.09	23.24	34.77	-13.68
				1	24	20.28	20.64	22.79	34.77	-14.13
				12	6	19.79	20.15	22.30	34.77	-14.62
				25	0	19.70	20.06	22.21	34.77	-14.71
	23790	710	64QAM	1	0	20.76	21.12	23.27	34.77	-13.65
				1	24	20.69	21.05	23.20	34.77	-13.72
				12	6	19.76	20.12	22.27	34.77	-14.65
				25	0	19.69	20.05	22.20	34.77	-14.72
	23825	713.5	64QAM	1	0	20.52	20.88	23.03	34.77	-13.89
				1	24	20.61	20.97	23.12	34.77	-13.80
				12	6	19.64	20.00	22.15	34.77	-14.77
				25	0	19.52	19.88	22.03	34.77	-14.89

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Antenna gain (dBi)		2.51								
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	22.74	23.10	25.25	34.77	-11.67
				1	49	22.64	23.00	25.15	34.77	-11.77
				25	12	21.70	22.06	24.21	34.77	-12.71
				50	0	21.80	22.16	24.31	34.77	-12.61
	23790	710	QPSK	1	0	22.52	22.88	25.03	34.77	-11.89
				1	49	22.72	23.08	25.23	34.77	-11.69
				25	12	21.75	22.11	24.26	34.77	-12.66
				50	0	21.65	22.01	24.16	34.77	-12.76
	23800	711	QPSK	1	0	22.72	23.08	25.23	34.77	-11.69
				1	49	22.40	22.76	24.91	34.77	-12.01
				25	12	21.72	22.08	24.23	34.77	-12.69
				50	0	21.65	22.01	24.16	34.77	-12.76
10	23780	709	16QAM	1	0	21.88	22.24	24.39	34.77	-12.53
				1	49	22.00	22.36	24.51	34.77	-12.41
				25	12	20.70	21.06	23.21	34.77	-13.71
				50	0	20.57	20.93	23.08	34.77	-13.84
	23790	710	16QAM	1	0	21.82	22.18	24.33	34.77	-12.59
				1	49	21.68	22.04	24.19	34.77	-12.73
				25	12	20.45	20.81	22.96	34.77	-13.96
				50	0	20.46	20.82	22.97	34.77	-13.95
	23800	711	16QAM	1	0	21.54	21.90	24.05	34.77	-12.87
				1	49	21.61	21.97	24.12	34.77	-12.80
				25	12	20.76	21.12	23.27	34.77	-13.65
				50	0	20.64	21.00	23.15	34.77	-13.77
10	23780	709	64QAM	1	0	20.82	21.18	23.33	34.77	-13.59
				1	49	20.57	20.93	23.08	34.77	-13.84
				25	12	19.68	20.04	22.19	34.77	-14.73
				50	0	19.71	20.07	22.22	34.77	-14.70
	23790	710	64QAM	1	0	20.70	21.06	23.21	34.77	-13.71
				1	49	20.71	21.07	23.22	34.77	-13.70
				25	12	19.79	20.15	22.30	34.77	-14.62
				50	0	19.68	20.04	22.19	34.77	-14.73
	23800	711	64QAM	1	0	20.84	21.20	23.35	34.77	-13.57
				1	49	20.77	21.13	23.28	34.77	-13.64
				25	12	19.66	20.02	22.17	34.77	-14.75
				50	0	19.75	20.11	22.26	34.77	-14.66

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Antenna gain (dBi)		3.05							
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	22.48	25.53	33	-7.47
				1	5	22.43	25.48	33	-7.52
				3	2	22.54	25.59	33	-7.41
				6	0	21.48	24.53	33	-8.47
	26365	1882.5	QPSK	1	0	22.50	25.55	33	-7.45
				1	5	22.39	25.44	33	-7.56
				3	2	22.61	<b>25.66</b>	33	-7.34
				6	0	21.54	24.59	33	-8.41
	26683	1914.3	QPSK	1	0	22.36	25.41	33	-7.59
				1	5	22.56	25.61	33	-7.39
				3	2	22.51	25.56	33	-7.44
				6	0	21.46	24.51	33	-8.49
1.4	26047	1850.7	16QAM	1	0	21.71	24.76	33	-8.24
				1	5	21.80	24.85	33	-8.15
				3	2	21.38	24.43	33	-8.57
				6	0	20.47	23.52	33	-9.48
	26365	1882.5	16QAM	1	0	21.64	24.69	33	-8.31
				1	5	21.98	<b>25.03</b>	33	-7.97
				3	2	21.60	24.65	33	-8.35
				6	0	20.64	23.69	33	-9.31
	26683	1914.3	16QAM	1	0	21.54	24.59	33	-8.41
				1	5	21.24	24.29	33	-8.71
				3	2	21.46	24.51	33	-8.49
				6	0	20.58	23.63	33	-9.37
1.4	26047	1850.7	64QAM	1	0	20.73	23.78	33	-9.22
				1	5	20.69	23.74	33	-9.26
				3	2	20.77	<b>23.82</b>	33	-9.18
				6	0	19.40	22.45	33	-10.55
	26365	1882.5	64QAM	1	0	20.55	23.60	33	-9.4
				1	5	20.37	23.42	33	-9.58
				3	2	20.70	23.75	33	-9.25
				6	0	19.46	22.51	33	-10.49
	26683	1914.3	64QAM	1	0	20.66	23.71	33	-9.29
				1	5	20.57	23.62	33	-9.38
				3	2	20.58	23.63	33	-9.37
				6	0	19.43	22.48	33	-10.52

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Antenna gain (dBi)		3.05							
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	22.74	25.79	33	-7.21
				1	14	22.47	25.52	33	-7.48
				8	4	21.51	24.56	33	-8.44
				15	0	21.48	24.53	33	-8.47
	26365	1882.5	QPSK	1	0	22.72	25.77	33	-7.23
				1	14	22.57	25.62	33	-7.38
				8	4	21.68	24.73	33	-8.27
				15	0	21.67	24.72	33	-8.28
	26675	1913.5	QPSK	1	0	22.16	25.21	33	-7.79
				1	14	22.36	25.41	33	-7.59
				8	4	21.54	24.59	33	-8.41
				15	0	21.50	24.55	33	-8.45
3	26055	1851.5	16QAM	1	0	21.49	24.54	33	-8.46
				1	14	21.86	24.91	33	-8.09
				8	4	20.63	23.68	33	-9.32
				15	0	20.54	23.59	33	-9.41
	26365	1882.5	16QAM	1	0	21.57	24.62	33	-8.38
				1	14	21.76	24.81	33	-8.19
				8	4	20.79	23.84	33	-9.16
				15	0	20.66	23.71	33	-9.29
	26675	1913.5	16QAM	1	0	21.72	24.77	33	-8.23
				1	14	21.52	24.57	33	-8.43
				8	4	20.57	23.62	33	-9.38
				15	0	20.56	23.61	33	-9.39
3	26055	1851.5	64QAM	1	0	20.69	23.74	33	-9.26
				1	14	20.85	23.90	33	-9.1
				8	4	19.61	22.66	33	-10.34
				15	0	19.62	22.67	33	-10.33
	26365	1882.5	64QAM	1	0	20.87	23.92	33	-9.08
				1	14	20.83	23.88	33	-9.12
				8	4	19.65	22.70	33	-10.3
				15	0	19.61	22.66	33	-10.34
	26675	1913.5	64QAM	1	0	20.28	23.33	33	-9.67
				1	14	20.54	23.59	33	-9.41
				8	4	19.54	22.59	33	-10.41
				15	0	19.49	22.54	33	-10.46

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Antenna gain (dBi)		3.05							
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	22.52	25.57	33	-7.43
				1	24	22.62	25.67	33	-7.33
				12	6	21.62	24.67	33	-8.33
				25	0	21.53	24.58	33	-8.42
	26365	1882.5	QPSK	1	0	22.60	25.65	33	-7.35
				1	24	22.65	25.70	33	-7.3
				12	6	21.69	24.74	33	-8.26
				25	0	21.61	24.66	33	-8.34
	26665	1912.5	QPSK	1	0	22.40	25.45	33	-7.55
				1	24	22.60	25.65	33	-7.35
				12	6	21.57	24.62	33	-8.38
				25	0	21.48	24.53	33	-8.47
5	26065	1852.5	16QAM	1	0	22.02	25.07	33	-7.93
				1	24	21.57	24.62	33	-8.38
				12	6	20.54	23.59	33	-9.41
				25	0	20.54	23.59	33	-9.41
	26365	1882.5	16QAM	1	0	21.91	24.96	33	-8.04
				1	24	21.74	24.79	33	-8.21
				12	6	20.68	23.73	33	-9.27
				25	0	20.65	23.70	33	-9.3
	26665	1912.5	16QAM	1	0	21.63	24.68	33	-8.32
				1	24	21.88	24.93	33	-8.07
				12	6	20.65	23.70	33	-9.3
				25	0	20.49	23.54	33	-9.46
5	26065	1852.5	64QAM	1	0	20.53	23.58	33	-9.42
				1	24	20.64	23.69	33	-9.31
				12	6	19.63	22.68	33	-10.32
				25	0	19.52	22.57	33	-10.43
	26365	1882.5	64QAM	1	0	20.81	23.86	33	-9.14
				1	24	20.79	23.84	33	-9.16
				12	6	19.81	22.86	33	-10.14
				25	0	19.71	22.76	33	-10.24
	26665	1912.5	64QAM	1	0	20.68	23.73	33	-9.27
				1	24	20.79	23.84	33	-9.16
				12	6	19.55	22.60	33	-10.4
				25	0	19.50	22.55	33	-10.45

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Antenna gain (dBi)		3.05							
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	22.70	25.75	33	-7.25
				1	49	22.56	25.61	33	-7.39
				25	12	21.53	24.58	33	-8.42
				50	0	21.53	24.58	33	-8.42
	26365	1882.5	QPSK	1	0	22.58	25.63	33	-7.37
				1	49	22.79	25.84	33	-7.16
				25	12	21.73	24.78	33	-8.22
				50	0	21.63	24.68	33	-8.32
	26640	1910	QPSK	1	0	22.53	25.58	33	-7.42
				1	49	22.64	25.69	33	-7.31
				25	12	21.52	24.57	33	-8.43
				50	0	21.50	24.55	33	-8.45
10	26090	1855	16QAM	1	0	21.64	24.69	33	-8.31
				1	49	21.61	24.66	33	-8.34
				25	12	20.65	23.70	33	-9.3
				50	0	20.59	23.64	33	-9.36
	26365	1882.5	16QAM	1	0	22.12	25.17	33	-7.83
				1	49	21.95	25.00	33	-8
				25	12	20.73	23.78	33	-9.22
				50	0	20.70	23.75	33	-9.25
	26640	1910	16QAM	1	0	21.66	24.71	33	-8.29
				1	49	21.80	24.85	33	-8.15
				25	12	20.37	23.42	33	-9.58
				50	0	20.54	23.59	33	-9.41
10	26090	1855	64QAM	1	0	20.70	23.75	33	-9.25
				1	49	20.67	23.72	33	-9.28
				25	12	19.59	22.64	33	-10.36
				50	0	19.63	22.68	33	-10.32
	26365	1882.5	64QAM	1	0	20.86	23.91	33	-9.09
				1	49	20.93	23.98	33	-9.02
				25	12	19.69	22.74	33	-10.26
				50	0	19.67	22.72	33	-10.28
	26640	1910	64QAM	1	0	20.43	23.48	33	-9.52
				1	49	20.50	23.55	33	-9.45
				25	12	19.56	22.61	33	-10.39
				50	0	19.50	22.55	33	-10.45

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Antenna gain (dBi)		3.05							
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	22.36	25.41	33	-7.59
				1	74	22.46	25.51	33	-7.49
				36	18	21.59	24.64	33	-8.36
				75	0	21.56	24.61	33	-8.39
	26365	1882.5	QPSK	1	0	22.53	<b>25.58</b>	33	-7.42
				1	74	22.46	25.51	33	-7.49
				36	18	21.66	24.71	33	-8.29
				75	0	21.68	24.73	33	-8.27
	26615	1907.5	QPSK	1	0	22.34	25.39	33	-7.61
				1	74	22.42	25.47	33	-7.53
				36	18	21.50	24.55	33	-8.45
				75	0	21.52	24.57	33	-8.43
15	26115	1857.5	16QAM	1	0	21.93	<b>24.98</b>	33	-8.02
				1	74	21.83	24.88	33	-8.12
				36	18	20.55	23.60	33	-9.4
				75	0	20.53	23.58	33	-9.42
	26365	1882.5	16QAM	1	0	21.65	24.70	33	-8.3
				1	74	21.54	24.59	33	-8.41
				36	18	20.74	23.79	33	-9.21
				75	0	20.64	23.69	33	-9.31
	26615	1907.5	16QAM	1	0	21.56	24.61	33	-8.39
				1	74	21.60	24.65	33	-8.35
				36	18	20.46	23.51	33	-9.49
				75	0	20.50	23.55	33	-9.45
15	26115	1857.5	64QAM	1	0	21.05	<b>24.10</b>	33	-8.9
				1	74	20.63	23.68	33	-9.32
				36	18	19.58	22.63	33	-10.37
				75	0	19.62	22.67	33	-10.33
	26365	1882.5	64QAM	1	0	20.69	23.74	33	-9.26
				1	74	20.74	23.79	33	-9.21
				36	18	19.73	22.78	33	-10.22
				75	0	19.72	22.77	33	-10.23
	26615	1907.5	64QAM	1	0	20.57	23.62	33	-9.38
				1	74	20.78	23.83	33	-9.17
				36	18	19.55	22.60	33	-10.4
				75	0	19.46	22.51	33	-10.49

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Antenna gain (dBi)		3.05							
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	22.69	25.74	33	-7.26
				1	99	22.69	25.74	33	-7.26
				50	25	21.59	24.64	33	-8.36
				100	0	21.56	24.61	33	-8.39
	26365	1882.5	QPSK	1	0	22.58	25.63	33	-7.37
				1	99	22.66	25.71	33	-7.29
				50	25	21.71	24.76	33	-8.24
				100	0	21.68	24.73	33	-8.27
	26590	1905	QPSK	1	0	22.60	25.65	33	-7.35
				1	99	22.54	25.59	33	-7.41
				50	25	21.52	24.57	33	-8.43
				100	0	21.56	24.61	33	-8.39
20	26140	1860	16QAM	1	0	21.73	24.78	33	-8.22
				1	99	21.73	24.78	33	-8.22
				50	25	20.57	23.62	33	-9.38
				100	0	20.53	23.58	33	-9.42
	26365	1882.5	16QAM	1	0	21.74	24.79	33	-8.21
				1	99	21.59	24.64	33	-8.36
				50	25	20.67	23.72	33	-9.28
				100	0	20.68	23.73	33	-9.27
	26590	1905	16QAM	1	0	21.44	24.49	33	-8.51
				1	99	21.65	24.70	33	-8.3
				50	25	20.49	23.54	33	-9.46
				100	0	20.56	23.61	33	-9.39
20	26140	1860	64QAM	1	0	20.63	23.68	33	-9.32
				1	99	20.53	23.58	33	-9.42
				50	25	19.64	22.69	33	-10.31
				100	0	19.60	22.65	33	-10.35
	26365	1882.5	64QAM	1	0	20.63	23.68	33	-9.32
				1	99	20.57	23.62	33	-9.38
				50	25	19.73	22.78	33	-10.22
				100	0	19.64	22.69	33	-10.31
	26590	1905	64QAM	1	0	20.66	23.71	33	-9.29
				1	99	20.72	23.77	33	-9.23
				50	25	19.45	22.50	33	-10.5
				100	0	19.54	22.59	33	-10.41

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Antenna gain (dBi)		3.2								
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	22.55	23.60	25.75	38.45	-14.85
				1	5	22.49	23.54	25.69	38.45	-14.91
				3	2	22.48	23.53	25.68	38.45	-14.92
				6	0	21.62	22.67	24.82	38.45	-15.78
	26915	836.5	QPSK	1	0	22.49	23.54	25.69	38.45	-14.91
				1	5	22.50	23.55	25.70	38.45	-14.90
				3	2	22.61	23.66	25.81	38.45	-14.79
				6	0	21.59	22.64	24.79	38.45	-15.81
	27033	848.3	QPSK	1	0	22.61	23.66	25.81	38.45	-14.79
				1	5	22.46	23.51	25.66	38.45	-14.94
				3	2	22.56	23.61	25.76	38.45	-14.84
				6	0	21.49	22.54	24.69	38.45	-15.91
1.4	26797	824.7	16QAM	1	0	21.60	22.65	24.80	38.45	-15.80
				1	5	21.71	22.76	24.91	38.45	-15.69
				3	2	21.61	22.66	24.81	38.45	-15.79
				6	0	20.70	21.75	23.90	38.45	-16.70
	26915	836.5	16QAM	1	0	21.61	22.66	24.81	38.45	-15.79
				1	5	21.38	22.43	24.58	38.45	-16.02
				3	2	21.55	22.60	24.75	38.45	-15.85
				6	0	20.63	21.68	23.83	38.45	-16.77
	27033	848.3	16QAM	1	0	21.73	22.78	24.93	38.45	-15.67
				1	5	21.52	22.57	24.72	38.45	-15.88
				3	2	21.49	22.54	24.69	38.45	-15.91
				6	0	20.63	21.68	23.83	38.45	-16.77
1.4	26797	824.7	64QAM	1	0	20.44	21.49	23.64	38.45	-16.96
				1	5	20.64	21.69	23.84	38.45	-16.76
				3	2	20.71	21.76	23.91	38.45	-16.69
				6	0	19.54	20.59	22.74	38.45	-17.86
	26915	836.5	64QAM	1	0	20.46	21.51	23.66	38.45	-16.94
				1	5	20.66	21.71	23.86	38.45	-16.74
				3	2	20.68	21.73	23.88	38.45	-16.72
				6	0	19.44	20.49	22.64	38.45	-17.96
	27033	848.3	64QAM	1	0	20.73	21.78	23.93	38.45	-16.67
				1	5	20.68	21.73	23.88	38.45	-16.72
				3	2	20.64	21.69	23.84	38.45	-16.76
				6	0	19.57	20.62	22.77	38.45	-17.83

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Antenna gain (dBi)		3.2								
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	22.58	23.63	25.78	38.45	-14.82
				1	14	22.47	23.52	25.67	38.45	-14.93
				8	4	21.63	22.68	24.83	38.45	-15.77
				15	0	21.64	22.69	24.84	38.45	-15.76
	26915	836.5	QPSK	1	0	22.50	23.55	25.70	38.45	-14.90
				1	14	22.54	23.59	25.74	38.45	-14.86
				8	4	21.63	22.68	24.83	38.45	-15.77
				15	0	21.59	22.64	24.79	38.45	-15.81
	27025	847.5	QPSK	1	0	22.50	23.55	25.70	38.45	-14.90
				1	14	22.69	23.74	25.89	38.45	-14.71
				8	4	21.66	22.71	24.86	38.45	-15.74
				15	0	21.63	22.68	24.83	38.45	-15.77
3	26805	825.5	16QAM	1	0	21.46	22.51	24.66	38.45	-15.94
				1	14	21.70	22.75	24.90	38.45	-15.70
				8	4	20.75	21.80	23.95	38.45	-16.65
				15	0	20.71	21.76	23.91	38.45	-16.69
	26915	836.5	16QAM	1	0	21.80	22.85	25.00	38.45	-15.60
				1	14	21.91	22.96	25.11	38.45	-15.49
				8	4	20.76	21.81	23.96	38.45	-16.64
				15	0	20.47	21.52	23.67	38.45	-16.93
	27025	847.5	16QAM	1	0	21.95	23.00	25.15	38.45	-15.45
				1	14	21.59	22.64	24.79	38.45	-15.81
				8	4	20.70	21.75	23.90	38.45	-16.70
				15	0	20.75	21.80	23.95	38.45	-16.65
3	26805	825.5	64QAM	1	0	20.72	21.77	23.92	38.45	-16.68
				1	14	20.58	21.63	23.78	38.45	-16.82
				8	4	19.72	20.77	22.92	38.45	-17.68
				15	0	19.58	20.63	22.78	38.45	-17.82
	26915	836.5	64QAM	1	0	20.66	21.71	23.86	38.45	-16.74
				1	14	20.81	21.86	24.01	38.45	-16.59
				8	4	19.64	20.69	22.84	38.45	-17.76
				15	0	19.59	20.64	22.79	38.45	-17.81
	27025	847.5	64QAM	1	0	20.75	21.80	23.95	38.45	-16.65
				1	14	20.59	21.64	23.79	38.45	-16.81
				8	4	19.63	20.68	22.83	38.45	-17.77
				15	0	19.63	20.68	22.83	38.45	-17.77

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Antenna gain (dBi)		3.2								
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	22.60	23.65	25.80	38.45	-14.80
				1	24	22.60	23.65	25.80	38.45	-14.80
				12	6	21.64	22.69	24.84	38.45	-15.76
				25	0	21.68	22.73	24.88	38.45	-15.72
	26915	836.5	QPSK	1	0	22.52	23.57	25.72	38.45	-14.88
				1	24	22.51	23.56	25.71	38.45	-14.89
				12	6	21.69	22.74	24.89	38.45	-15.71
				25	0	21.52	22.57	24.72	38.45	-15.88
	27015	846.5	QPSK	1	0	22.52	23.57	25.72	38.45	-14.88
				1	24	22.51	23.56	25.71	38.45	-14.89
				12	6	21.67	22.72	24.87	38.45	-15.73
				25	0	21.66	22.71	24.86	38.45	-15.74
5	26815	826.5	16QAM	1	0	21.62	22.67	24.82	38.45	-15.78
				1	24	21.93	22.98	25.13	38.45	-15.47
				12	6	20.61	21.66	23.81	38.45	-16.79
				25	0	20.45	21.50	23.65	38.45	-16.95
	26915	836.5	16QAM	1	0	21.59	22.64	24.79	38.45	-15.81
				1	24	21.71	22.76	24.91	38.45	-15.69
				12	6	20.71	21.76	23.91	38.45	-16.69
				25	0	20.51	21.56	23.71	38.45	-16.89
	27015	846.5	16QAM	1	0	21.58	22.63	24.78	38.45	-15.82
				1	24	21.74	22.79	24.94	38.45	-15.66
				12	6	20.68	21.73	23.88	38.45	-16.72
				25	0	20.59	21.64	23.79	38.45	-16.81
5	26815	826.5	64QAM	1	0	20.57	21.62	23.77	38.45	-16.83
				1	24	20.71	21.76	23.91	38.45	-16.69
				12	6	19.73	20.78	22.93	38.45	-17.67
				25	0	19.63	20.68	22.83	38.45	-17.77
	26915	836.5	64QAM	1	0	20.56	21.61	23.76	38.45	-16.84
				1	24	20.17	21.22	23.37	38.45	-17.23
				12	6	19.59	20.64	22.79	38.45	-17.81
				25	0	19.49	20.54	22.69	38.45	-17.91
	27015	846.5	64QAM	1	0	20.63	21.68	23.83	38.45	-16.77
				1	24	20.54	21.59	23.74	38.45	-16.86
				12	6	19.72	20.77	22.92	38.45	-17.68
				25	0	19.57	20.62	22.77	38.45	-17.83

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Antenna gain (dBi)		3.2								
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	22.54	23.59	25.74	38.45	-14.86
				1	49	22.50	23.55	25.70	38.45	-14.90
				25	12	21.68	22.73	24.88	38.45	-15.72
				50	0	21.60	22.65	24.80	38.45	-15.80
	26915	836.5	QPSK	1	0	22.59	23.64	25.79	38.45	-14.81
				1	49	22.64	<b>23.69</b>	25.84	38.45	-14.76
				25	12	21.60	22.65	24.80	38.45	-15.80
				50	0	21.54	22.59	24.74	38.45	-15.86
	26990	844	QPSK	1	0	22.44	23.49	25.64	38.45	-14.96
				1	49	22.60	23.65	25.80	38.45	-14.80
				25	12	21.56	22.61	24.76	38.45	-15.84
				50	0	21.52	22.57	24.72	38.45	-15.88
10	26840	829	16QAM	1	0	21.77	22.82	24.97	38.45	-15.63
				1	49	21.77	22.82	24.97	38.45	-15.63
				25	12	20.63	21.68	23.83	38.45	-16.77
				50	0	20.67	21.72	23.87	38.45	-16.73
	26915	836.5	16QAM	1	0	21.72	22.77	24.92	38.45	-15.68
				1	49	21.78	<b>22.83</b>	24.98	38.45	-15.62
				25	12	20.54	21.59	23.74	38.45	-16.86
				50	0	20.59	21.64	23.79	38.45	-16.81
	26990	844	16QAM	1	0	21.63	22.68	24.83	38.45	-15.77
				1	49	21.61	22.66	24.81	38.45	-15.79
				25	12	20.62	21.67	23.82	38.45	-16.78
				50	0	20.56	21.61	23.76	38.45	-16.84
10	26840	829	64QAM	1	0	20.28	21.33	23.48	38.45	-17.12
				1	49	20.54	21.59	23.74	38.45	-16.86
				25	12	19.66	20.71	22.86	38.45	-17.74
				50	0	19.61	20.66	22.81	38.45	-17.79
	26915	836.5	64QAM	1	0	20.64	21.69	23.84	38.45	-16.76
				1	49	20.53	21.58	23.73	38.45	-16.87
				25	12	19.52	20.57	22.72	38.45	-17.88
				50	0	19.61	20.66	22.81	38.45	-17.79
	26990	844	64QAM	1	0	20.67	21.72	23.87	38.45	-16.73
				1	49	20.71	<b>21.76</b>	23.91	38.45	-16.69
				25	12	19.67	20.72	22.87	38.45	-17.73
				50	0	19.59	20.64	22.79	38.45	-17.81

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Antenna gain (dBi)		3.2								
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	22.56	23.61	25.76	38.45	-14.84
				1	74	22.52	23.57	25.72	38.45	-14.88
				36	18	21.62	22.67	24.82	38.45	-15.78
				75	0	21.64	22.69	24.84	38.45	-15.76
	26915	836.5	QPSK	1	0	22.56	23.61	25.76	38.45	-14.84
				1	74	22.51	23.56	25.71	38.45	-14.89
				36	18	21.51	22.56	24.71	38.45	-15.89
				75	0	21.51	22.56	24.71	38.45	-15.89
	26965	841.5	QPSK	1	0	22.57	23.62	25.77	38.45	-14.83
				1	74	22.57	23.62	25.77	38.45	-14.83
				36	18	21.57	22.62	24.77	38.45	-15.83
				75	0	21.56	22.61	24.76	38.45	-15.84
15	26865	831.5	16QAM	1	0	21.82	22.87	25.02	38.45	-15.58
				1	74	21.87	22.92	25.07	38.45	-15.53
				36	18	20.54	21.59	23.74	38.45	-16.86
				75	0	20.61	21.66	23.81	38.45	-16.79
	26915	836.5	16QAM	1	0	21.87	22.92	25.07	38.45	-15.53
				1	74	21.91	22.96	25.11	38.45	-15.49
				36	18	20.57	21.62	23.77	38.45	-16.83
				75	0	20.50	21.55	23.70	38.45	-16.90
	26965	841.5	16QAM	1	0	21.92	22.97	25.12	38.45	-15.48
				1	74	21.72	22.77	24.92	38.45	-15.68
				36	18	20.59	21.64	23.79	38.45	-16.81
				75	0	20.55	21.60	23.75	38.45	-16.85
15	26865	831.5	64QAM	1	0	20.51	21.56	23.71	38.45	-16.89
				1	74	20.86	21.91	24.06	38.45	-16.54
				36	18	19.64	20.69	22.84	38.45	-17.76
				75	0	19.63	20.68	22.83	38.45	-17.77
	26915	836.5	64QAM	1	0	20.45	21.50	23.65	38.45	-16.95
				1	74	20.84	21.89	24.04	38.45	-16.56
				36	18	19.57	20.62	22.77	38.45	-17.83
				75	0	19.57	20.62	22.77	38.45	-17.83
	26965	841.5	64QAM	1	0	20.81	21.86	24.01	38.45	-16.59
				1	74	20.75	21.80	23.95	38.45	-16.65
				36	18	19.65	20.70	22.85	38.45	-17.75
				75	0	19.54	20.59	22.74	38.45	-17.86

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Antenna gain (dBi)		2.51								
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	22.42	22.78	24.93	50	-27.22
				1	5	22.51	22.87	25.02	50	-27.13
				3	2	22.61	22.97	25.12	50	-27.03
				6	0	21.57	21.93	24.08	50	-28.07
	26740	819	QPSK	1	0	22.55	22.91	25.06	50	-27.09
				1	5	22.45	22.81	24.96	50	-27.19
				3	2	22.57	22.93	25.08	50	-27.07
				6	0	21.58	21.94	24.09	50	-28.06
	26783	823.3	QPSK	1	0	22.44	22.80	24.95	50	-27.20
				1	5	22.19	22.55	24.70	50	-27.45
				3	2	22.48	22.84	24.99	50	-27.16
				6	0	21.62	21.98	24.13	50	-28.02
1.4	26697	814.7	16QAM	1	0	21.64	22.00	24.15	50	-28.00
				1	5	21.79	22.15	24.30	50	-27.85
				3	2	21.61	21.97	24.12	50	-28.03
				6	0	20.62	20.98	23.13	50	-29.02
	26740	819	16QAM	1	0	21.71	22.07	24.22	50	-27.93
				1	5	21.72	22.08	24.23	50	-27.92
				3	2	21.63	21.99	24.14	50	-28.01
				6	0	20.59	20.95	23.10	50	-29.05
	26783	823.3	16QAM	1	0	21.67	22.03	24.18	50	-27.97
				1	5	21.64	22.00	24.15	50	-28.00
				3	2	21.40	21.76	23.91	50	-28.24
				6	0	20.68	21.04	23.19	50	-28.96
1.4	26697	814.7	64QAM	1	0	20.64	21.00	23.15	50	-29.00
				1	5	20.50	20.86	23.01	50	-29.14
				3	2	20.71	21.07	23.22	50	-28.93
				6	0	19.57	19.93	22.08	50	-30.07
	26740	819	64QAM	1	0	20.60	20.96	23.11	50	-29.04
				1	5	20.67	21.03	23.18	50	-28.97
				3	2	20.62	20.98	23.13	50	-29.02
				6	0	19.47	19.83	21.98	50	-30.17
	26783	823.3	64QAM	1	0	20.48	20.84	22.99	50	-29.16
				1	5	20.43	20.79	22.94	50	-29.21
				3	2	20.63	20.99	23.14	50	-29.01
				6	0	19.66	20.02	22.17	50	-29.98

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Antenna gain (dBi)		2.51								
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	22.80	23.16	25.31	50	-26.84
				1	14	22.50	22.86	25.01	50	-27.14
				8	4	21.68	22.04	24.19	50	-27.96
				15	0	21.65	22.01	24.16	50	-27.99
	26740	819	QPSK	1	0	22.55	22.91	25.06	50	-27.09
				1	14	22.51	22.87	25.02	50	-27.13
				8	4	21.62	21.98	24.13	50	-28.02
				15	0	21.63	21.99	24.14	50	-28.01
	26775	822.5	QPSK	1	0	22.51	22.87	25.02	50	-27.13
				1	14	22.48	22.84	24.99	50	-27.16
				8	4	21.62	21.98	24.13	50	-28.02
				15	0	21.69	22.05	24.20	50	-27.95
3	26705	815.5	16QAM	1	0	21.88	22.24	24.39	50	-27.76
				1	14	21.69	22.05	24.20	50	-27.95
				8	4	20.75	21.11	23.26	50	-28.89
				15	0	20.66	21.02	23.17	50	-28.98
	26740	819	16QAM	1	0	21.81	22.17	24.32	50	-27.83
				1	14	21.78	22.14	24.29	50	-27.86
				8	4	20.67	21.03	23.18	50	-28.97
				15	0	20.64	21.00	23.15	50	-29.00
	26775	822.5	16QAM	1	0	21.73	22.09	24.24	50	-27.91
				1	14	21.64	22.00	24.15	50	-28.00
				8	4	20.67	21.03	23.18	50	-28.97
				15	0	20.76	21.12	23.27	50	-28.88
3	26705	815.5	64QAM	1	0	20.67	21.03	23.18	50	-28.97
				1	14	20.72	21.08	23.23	50	-28.92
				8	4	19.71	20.07	22.22	50	-29.93
				15	0	19.66	20.02	22.17	50	-29.98
	26740	819	64QAM	1	0	20.48	20.84	22.99	50	-29.16
				1	14	20.63	20.99	23.14	50	-29.01
				8	4	19.66	20.02	22.17	50	-29.98
				15	0	19.63	19.99	22.14	50	-30.01
	26775	822.5	64QAM	1	0	20.55	20.91	23.06	50	-29.09
				1	14	20.71	21.07	23.22	50	-28.93
				8	4	19.67	20.03	22.18	50	-29.97
				15	0	19.69	20.05	22.20	50	-29.95

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Antenna gain (dBi)		2.51								
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	22.61	22.97	25.12	50	-27.03
				1	24	22.56	22.92	25.07	50	-27.08
				12	6	21.68	22.04	24.19	50	-27.96
				25	0	21.67	22.03	24.18	50	-27.97
	26740	819	QPSK	1	0	22.58	22.94	25.09	50	-27.06
				1	24	22.49	22.85	25.00	50	-27.15
				12	6	21.61	21.97	24.12	50	-28.03
				25	0	21.57	21.93	24.08	50	-28.07
	26765	821.5	QPSK	1	0	22.52	22.88	25.03	50	-27.12
				1	24	22.40	22.76	24.91	50	-27.24
				12	6	21.61	21.97	24.12	50	-28.03
				25	0	21.56	21.92	24.07	50	-28.08
5	26715	816.5	16QAM	1	0	21.74	22.10	24.25	50	-27.90
				1	24	21.87	22.23	24.38	50	-27.77
				12	6	20.68	21.04	23.19	50	-28.96
				25	0	20.63	20.99	23.14	50	-29.01
	26740	819	16QAM	1	0	21.77	22.13	24.28	50	-27.87
				1	24	21.87	22.23	24.38	50	-27.77
				12	6	20.69	21.05	23.20	50	-28.95
				25	0	20.65	21.01	23.16	50	-28.99
	26765	821.5	16QAM	1	0	21.80	22.16	24.31	50	-27.84
				1	24	21.58	21.94	24.09	50	-28.06
				12	6	20.62	20.98	23.13	50	-29.02
				25	0	20.60	20.96	23.11	50	-29.04
5	26715	816.5	64QAM	1	0	20.59	20.95	23.10	50	-29.05
				1	24	20.59	20.95	23.10	50	-29.05
				12	6	19.73	20.09	22.24	50	-29.91
				25	0	19.64	20.00	22.15	50	-30.00
	26740	819	64QAM	1	0	20.58	20.94	23.09	50	-29.06
				1	24	20.50	20.86	23.01	50	-29.14
				12	6	19.73	20.09	22.24	50	-29.91
				25	0	19.61	19.97	22.12	50	-30.03
	26765	821.5	64QAM	1	0	20.58	20.94	23.09	50	-29.06
				1	24	20.61	20.97	23.12	50	-29.03
				12	6	19.59	19.95	22.10	50	-30.05
				25	0	19.59	19.95	22.10	50	-30.05

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Antenna gain (dBi)		2.51								
<b>Part 90S_LTE Band 26_Uplink frequency band : 814 to 824 MHz</b>										
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	22.58	22.94	25.09	50	-27.06
				1	49	22.55	22.91	25.06	50	-27.09
				25	12	21.65	22.01	24.16	50	-27.99
				50	0	21.62	21.98	24.13	50	-28.02
10	26740	819	16QAM	1	0	21.72	22.08	24.23	50	-27.92
				1	49	21.63	21.99	24.14	50	-28.01
				25	12	20.61	20.97	23.12	50	-29.03
				50	0	20.58	20.94	23.09	50	-29.06
10	26740	819	64QAM	1	0	20.59	20.95	23.10	50	-29.05
				1	49	20.77	21.13	23.28	50	-28.87
				25	12	19.68	20.04	22.19	50	-29.96
				50	0	19.7	20.06	22.21	50	-29.94

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Antenna gain (dBi)		3.12							
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	20.50	23.62	24	-0.38
				1	24	20.54	<b>23.66</b>	24	-0.34
				12	6	19.66	22.78	24	-1.22
				25	0	19.60	22.72	24	-1.28
	27710	2310	QPSK	1	0	20.52	23.64	24	-0.36
				1	24	20.54	<b>23.66</b>	24	-0.34
				12	6	19.62	22.74	24	-1.26
				25	0	19.57	22.69	24	-1.31
	27735	2312.5	QPSK	1	0	20.45	23.57	24	-0.43
				1	24	20.49	23.61	24	-0.39
				12	6	19.63	22.75	24	-1.25
				25	0	19.57	22.69	24	-1.31
5	27685	2307.5	16QAM	1	0	19.76	22.88	24	-1.12
				1	24	19.36	22.48	24	-1.52
				12	6	18.69	21.81	24	-2.19
				25	0	18.54	21.66	24	-2.34
	27710	2310	16QAM	1	0	19.78	<b>22.90</b>	24	-1.1
				1	24	19.68	22.80	24	-1.2
				12	6	18.61	21.73	24	-2.27
				25	0	18.56	21.68	24	-2.32
	27735	2312.5	16QAM	1	0	19.76	22.88	24	-1.12
				1	24	19.69	22.81	24	-1.19
				12	6	18.63	21.75	24	-2.25
				25	0	18.59	21.71	24	-2.29
5	27685	2307.5	64QAM	1	0	18.80	<b>21.92</b>	24	-2.08
				1	24	18.68	21.80	24	-2.2
				12	6	17.68	20.80	24	-3.2
				25	0	17.56	20.68	24	-3.32
	27710	2310	64QAM	1	0	18.66	21.78	24	-2.22
				1	24	18.63	21.75	24	-2.25
				12	6	17.64	20.76	24	-3.24
				25	0	17.58	20.70	24	-3.3
	27735	2312.5	64QAM	1	0	18.55	21.67	24	-2.33
				1	24	18.67	21.79	24	-2.21
				12	6	17.69	20.81	24	-3.19
				25	0	17.61	20.73	24	-3.27

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Antenna gain (dBi)		3.12							
<b>LTE Band 30_Uplink frequency band : 2305 to 2315 MHz</b>									
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	20.55	<b>23.67</b>	24	-0.33
				1	49	20.43	23.55	24	-0.45
				25	12	19.63	22.75	24	-1.25
				50	0	19.6	22.72	24	-1.28
10	27710	2310	16QAM	1	0	19.92	<b>23.04</b>	24	-0.96
				1	49	19.48	22.60	24	-1.4
				25	12	18.42	21.54	24	-2.46
				50	0	18.62	21.74	24	-2.26
10	27710	2310	64QAM	1	0	18.74	21.86	24	-2.14
				1	49	18.75	<b>21.87</b>	24	-2.13
				25	12	17.65	20.77	24	-3.23
				50	0	17.62	20.74	24	-3.26

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Antenna gain (dBi)		3.12							
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	22.46	25.58	33	-7.42
				1	24	22.52	25.64	33	-7.36
				12	6	21.60	24.72	33	-8.28
				25	0	21.56	24.68	33	-8.32
	38000	2595	QPSK	1	0	22.44	25.56	33	-7.44
				1	24	22.42	25.54	33	-7.46
				12	6	21.53	24.65	33	-8.35
				25	0	21.55	24.67	33	-8.33
	38225	2617.5	QPSK	1	0	22.53	25.65	33	-7.35
				1	24	22.55	25.67	33	-7.33
				12	6	21.63	24.75	33	-8.25
				25	0	21.64	24.76	33	-8.24
5	37775	2572.5	16QAM	1	0	21.76	24.88	33	-8.12
				1	24	21.81	24.93	33	-8.07
				12	6	20.66	23.78	33	-9.22
				25	0	20.57	23.69	33	-9.31
	38000	2595	16QAM	1	0	21.73	24.85	33	-8.15
				1	24	21.75	24.87	33	-8.13
				12	6	20.58	23.70	33	-9.3
				25	0	20.56	23.68	33	-9.32
	38225	2617.5	16QAM	1	0	21.77	24.89	33	-8.11
				1	24	21.77	24.89	33	-8.11
				12	6	20.72	23.84	33	-9.16
				25	0	20.65	23.77	33	-9.23
5	37775	2572.5	64QAM	1	0	20.59	23.71	33	-9.29
				1	24	20.69	23.81	33	-9.19
				12	6	19.64	22.76	33	-10.24
				25	0	19.65	22.77	33	-10.23
	38000	2595	64QAM	1	0	20.56	23.68	33	-9.32
				1	24	20.63	23.75	33	-9.25
				12	6	19.61	22.73	33	-10.27
				25	0	19.57	22.69	33	-10.31
	38225	2617.5	64QAM	1	0	20.70	23.82	33	-9.18
				1	24	20.71	23.83	33	-9.17
				12	6	19.72	22.84	33	-10.16
				25	0	19.73	22.85	33	-10.15

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Antenna gain (dBi)		3.12							
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	22.53	25.65	33	-7.35
				1	49	22.52	25.64	33	-7.36
				25	12	21.59	24.71	33	-8.29
				50	0	21.61	24.73	33	-8.27
	38000	2595	QPSK	1	0	22.49	25.61	33	-7.39
				1	49	22.48	25.60	33	-7.4
				25	12	21.56	24.68	33	-8.32
				50	0	21.62	24.74	33	-8.26
	38200	2615	QPSK	1	0	22.58	25.70	33	-7.3
				1	49	22.62	25.74	33	-7.26
				25	12	21.66	24.78	33	-8.22
				50	0	21.68	24.80	33	-8.2
10	37800	2575	16QAM	1	0	21.77	24.89	33	-8.11
				1	49	21.78	24.90	33	-8.1
				25	12	20.64	23.76	33	-9.24
				50	0	20.64	23.76	33	-9.24
	38000	2595	16QAM	1	0	21.76	24.88	33	-8.12
				1	49	21.72	24.84	33	-8.16
				25	12	20.60	23.72	33	-9.28
				50	0	20.62	23.74	33	-9.26
	38200	2615	16QAM	1	0	21.84	24.96	33	-8.04
				1	49	21.82	24.94	33	-8.06
				25	12	20.66	23.78	33	-9.22
				50	0	20.68	23.80	33	-9.2
10	37800	2575	64QAM	1	0	20.58	23.70	33	-9.3
				1	49	20.65	23.77	33	-9.23
				25	12	19.66	22.78	33	-10.22
				50	0	19.61	22.73	33	-10.27
	38000	2595	64QAM	1	0	20.59	23.71	33	-9.29
				1	49	20.62	23.74	33	-9.26
				25	12	19.64	22.76	33	-10.24
				50	0	19.60	22.72	33	-10.28
	38200	2615	64QAM	1	0	20.68	23.80	33	-9.2
				1	49	20.71	23.83	33	-9.17
				25	12	19.75	22.87	33	-10.13
				50	0	19.70	22.82	33	-10.18

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Antenna gain (dBi)		3.12							
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	22.51	25.63	33	-7.37
				1	74	22.48	25.60	33	-7.4
				36	19	21.64	24.76	33	-8.24
				75	0	21.50	24.62	33	-8.38
	38000	2595	QPSK	1	0	22.50	25.62	33	-7.38
				1	74	22.53	25.65	33	-7.35
				36	19	21.64	24.76	33	-8.24
				75	0	21.59	24.71	33	-8.29
	38175	2612.5	QPSK	1	0	22.63	25.75	33	-7.25
				1	74	22.65	25.77	33	-7.23
				36	19	21.70	24.82	33	-8.18
				75	0	21.66	24.78	33	-8.22
15	37825	2577.5	16QAM	1	0	21.62	24.74	33	-8.26
				1	74	21.62	24.74	33	-8.26
				36	19	20.66	23.78	33	-9.22
				75	0	20.56	23.68	33	-9.32
	38000	2595	16QAM	1	0	21.75	24.87	33	-8.13
				1	74	21.78	24.90	33	-8.1
				36	19	20.56	23.68	33	-9.32
				75	0	20.52	23.64	33	-9.36
	38175	2612.5	16QAM	1	0	21.81	24.93	33	-8.07
				1	74	21.81	24.93	33	-8.07
				36	19	20.66	23.78	33	-9.22
				75	0	20.69	23.81	33	-9.19
15	37825	2577.5	64QAM	1	0	20.64	23.76	33	-9.24
				1	74	20.59	23.71	33	-9.29
				36	19	19.61	22.73	33	-10.27
				75	0	19.53	22.65	33	-10.35
	38000	2595	64QAM	1	0	20.57	23.69	33	-9.31
				1	74	20.62	23.74	33	-9.26
				36	19	19.63	22.75	33	-10.25
				75	0	19.58	22.70	33	-10.3
	38175	2612.5	64QAM	1	0	20.70	23.82	33	-9.18
				1	74	20.72	23.84	33	-9.16
				36	19	19.66	22.78	33	-10.22
				75	0	19.67	22.79	33	-10.21

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Antenna gain (dBi)		3.12							
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	22.52	25.64	33	-7.36
				1	99	22.46	25.58	33	-7.42
				50	25	21.55	24.67	33	-8.33
				100	0	21.53	24.65	33	-8.35
	38000	2595	QPSK	1	0	22.51	25.63	33	-7.37
				1	99	22.55	25.67	33	-7.33
				50	25	21.61	24.73	33	-8.27
				100	0	21.62	24.74	33	-8.26
	38150	2610	QPSK	1	0	22.56	25.68	33	-7.32
				1	99	22.57	<b>25.69</b>	33	-7.31
				50	25	21.64	24.76	33	-8.24
				100	0	21.64	24.76	33	-8.24
20	37850	2580	16QAM	1	0	21.65	24.77	33	-8.23
				1	99	21.71	24.83	33	-8.17
				50	25	20.58	23.70	33	-9.3
				100	0	20.62	23.74	33	-9.26
	38000	2595	16QAM	1	0	21.83	24.95	33	-8.05
				1	99	21.85	24.97	33	-8.03
				50	25	20.61	23.73	33	-9.27
				100	0	20.60	23.72	33	-9.28
	38150	2610	16QAM	1	0	21.92	<b>25.04</b>	33	-7.96
				1	99	21.84	24.96	33	-8.04
				50	25	20.61	23.73	33	-9.27
				100	0	20.61	23.73	33	-9.27
20	37850	2580	64QAM	1	0	20.60	23.72	33	-9.28
				1	99	20.50	23.62	33	-9.38
				50	25	19.60	22.72	33	-10.28
				100	0	19.55	22.67	33	-10.33
	38000	2595	64QAM	1	0	20.52	23.64	33	-9.36
				1	99	20.60	23.72	33	-9.28
				50	25	19.61	22.73	33	-10.27
				100	0	19.54	22.66	33	-10.34
	38150	2610	64QAM	1	0	20.64	23.76	33	-9.24
				1	99	20.83	<b>23.95</b>	33	-9.05
				50	25	19.65	22.77	33	-10.23
				100	0	19.62	22.74	33	-10.26

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
5	39675	2498.5	QPSK	1	0	24.79	27.91	33	-5.09
				1	24	24.83	<b>27.95</b>	33	-5.05
				12	6	23.94	27.06	33	-5.94
				25	0	23.93	27.05	33	-5.95
	40620	2593	QPSK	1	0	24.75	27.87	33	-5.13
				1	24	24.78	27.90	33	-5.1
				12	6	23.98	27.10	33	-5.9
				25	0	23.94	27.06	33	-5.94
	41565	2687.5	QPSK	1	0	24.74	27.86	33	-5.14
				1	24	24.78	27.90	33	-5.1
				12	6	23.76	26.88	33	-6.12
				25	0	23.76	26.88	33	-6.12
5	39675	2498.5	16QAM	1	0	24.09	27.21	33	-5.79
				1	24	24.16	<b>27.28</b>	33	-5.72
				12	6	23.01	26.13	33	-6.87
				25	0	22.95	26.07	33	-6.93
	40620	2593	16QAM	1	0	23.99	27.11	33	-5.89
				1	24	23.99	27.11	33	-5.89
				12	6	22.99	26.11	33	-6.89
				25	0	23.02	26.14	33	-6.86
	41565	2687.5	16QAM	1	0	23.48	26.60	33	-6.4
				1	24	23.55	26.67	33	-6.33
				12	6	22.82	25.94	33	-7.06
				25	0	22.77	25.89	33	-7.11
5	39675	2498.5	64QAM	1	0	22.62	25.74	33	-7.26
				1	24	22.65	25.77	33	-7.23
				12	6	21.73	24.85	33	-8.15
				25	0	21.61	24.73	33	-8.27
	40620	2593	64QAM	1	0	22.83	25.95	33	-7.05
				1	24	22.84	<b>25.96</b>	33	-7.04
				12	6	21.98	25.10	33	-7.9
				25	0	21.94	25.06	33	-7.94
	41565	2687.5	64QAM	1	0	22.80	25.92	33	-7.08
				1	24	22.66	25.78	33	-7.22
				12	6	21.86	24.98	33	-8.02
				25	0	21.80	24.92	33	-8.08

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Antenna gain (dBi)		3.12							
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	24.94	28.06	33	-4.94
				1	49	24.96	<b>28.08</b>	33	-4.92
				25	12	23.96	27.08	33	-5.92
				50	0	23.98	27.10	33	-5.9
	40620	2593	QPSK	1	0	24.89	28.01	33	-4.99
				1	49	24.93	28.05	33	-4.95
				25	12	23.99	27.11	33	-5.89
				50	0	23.99	27.11	33	-5.89
	41540	2685	QPSK	1	0	24.79	27.91	33	-5.09
				1	49	24.78	27.90	33	-5.1
				25	12	23.76	26.88	33	-6.12
				50	0	23.79	26.91	33	-6.09
10	39700	2501	16QAM	1	0	24.09	27.21	33	-5.79
				1	49	24.08	27.20	33	-5.8
				25	12	23.02	26.14	33	-6.86
				50	0	23.01	26.13	33	-6.87
	40620	2593	16QAM	1	0	24.13	<b>27.25</b>	33	-5.75
				1	49	24.04	27.16	33	-5.84
				25	12	22.99	26.11	33	-6.89
				50	0	23.00	26.12	33	-6.88
	41540	2685	16QAM	1	0	24.08	27.20	33	-5.8
				1	49	23.91	27.03	33	-5.97
				25	12	22.84	25.96	33	-7.04
				50	0	22.83	25.95	33	-7.05
10	39700	2501	64QAM	1	0	22.76	25.88	33	-7.12
				1	49	22.68	25.80	33	-7.2
				25	12	21.79	24.91	33	-8.09
				50	0	21.72	24.84	33	-8.16
	40620	2593	64QAM	1	0	22.95	26.07	33	-6.93
				1	49	22.81	25.93	33	-7.07
				25	12	21.98	25.10	33	-7.9
				50	0	21.92	25.04	33	-7.96
	41540	2685	64QAM	1	0	22.99	<b>26.11</b>	33	-6.89
				1	49	22.78	25.90	33	-7.1
				25	12	21.96	25.08	33	-7.92
				50	0	21.90	25.02	33	-7.98

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Antenna gain (dBi)		3.12							
LTE Band 41_Uplink frequency band : 2496 to 2690 MHz									
BW (MHz)	UL Channel	Frequency (MHz)	Modulation	RB Size	RB Offset	Conducted Average (dBm)	EIRP Average (dBm)	EIRP Limit (dBm)	Margin (dB)
15	39725	2503.5	QPSK	1	0	24.94	28.06	33	-4.94
				1	74	25.03	<b>28.15</b>	33	-4.85
				36	18	23.99	27.11	33	-5.89
				75	0	23.99	27.11	33	-5.89
	40620	2593	QPSK	1	0	25.01	28.13	33	-4.87
				1	74	25.01	28.13	33	-4.87
				36	18	24.01	27.13	33	-5.87
				75	0	23.99	27.11	33	-5.89
	41515	2682.5	QPSK	1	0	24.33	27.45	33	-5.55
				1	74	24.52	27.64	33	-5.36
				36	18	23.87	26.99	33	-6.01
				75	0	23.62	26.74	33	-6.26
15	39725	2503.5	16QAM	1	0	24.03	27.15	33	-5.85
				1	74	24.15	<b>27.27</b>	33	-5.73
				36	18	23.00	26.12	33	-6.88
				75	0	23.02	26.14	33	-6.86
	40620	2593	16QAM	1	0	23.77	26.89	33	-6.11
				1	74	23.92	27.04	33	-5.96
				36	18	23.01	26.13	33	-6.87
				75	0	23.06	26.18	33	-6.82
	41515	2682.5	16QAM	1	0	24.04	27.16	33	-5.84
				1	74	24.13	27.25	33	-5.75
				36	18	22.85	25.97	33	-7.03
				75	0	22.88	26.00	33	-7
15	39725	2503.5	64QAM	1	0	22.71	25.83	33	-7.17
				1	74	22.82	25.94	33	-7.06
				36	18	21.58	24.70	33	-8.3
				75	0	21.73	24.85	33	-8.15
	40620	2593	64QAM	1	0	22.97	26.09	33	-6.91
				1	74	22.87	25.99	33	-7.01
				36	18	21.94	25.06	33	-7.94
				75	0	21.98	25.10	33	-7.9
	41515	2682.5	64QAM	1	0	23.20	<b>26.32</b>	33	-6.68
				1	74	22.76	25.88	33	-7.12
				36	18	22.03	25.15	33	-7.85
				75	0	22.54	25.66	33	-7.34

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Antenna gain (dBi)		3.12							
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	25.00	28.12	33	-4.88
				1	99	24.96	28.08	33	-4.92
				50	25	24.02	27.14	33	-5.86
				100	0	24.03	27.15	33	-5.85
	40620	2593	QPSK	1	0	25.05	<b>28.17</b>	33	-4.83
				1	99	24.95	28.07	33	-4.93
				50	25	24.06	27.18	33	-5.82
				100	0	24.06	27.18	33	-5.82
	41490	2680	QPSK	1	0	24.95	28.07	33	-4.93
				1	99	24.89	28.01	33	-4.99
				50	25	23.87	26.99	33	-6.01
				100	0	23.90	27.02	33	-5.98
20	39750	2506	16QAM	1	0	23.83	26.95	33	-6.05
				1	99	24.24	<b>27.36</b>	33	-5.64
				50	25	23.07	26.19	33	-6.81
				100	0	23.06	26.18	33	-6.82
	40620	2593	16QAM	1	0	24.14	27.26	33	-5.74
				1	99	24.17	27.29	33	-5.71
				50	25	23.10	26.22	33	-6.78
				100	0	23.10	26.22	33	-6.78
	41490	2680	16QAM	1	0	24.05	27.17	33	-5.83
				1	99	24.00	27.12	33	-5.88
				50	25	22.92	26.04	33	-6.96
				100	0	22.96	26.08	33	-6.92
20	39750	2506	64QAM	1	0	22.66	25.78	33	-7.22
				1	99	22.90	26.02	33	-6.98
				50	25	21.80	24.92	33	-8.08
				100	0	21.82	24.94	33	-8.06
	40620	2593	64QAM	1	0	23.14	26.26	33	-6.74
				1	99	22.83	25.95	33	-7.05
				50	25	21.99	25.11	33	-7.89
				100	0	21.97	25.09	33	-7.91
	41490	2680	64QAM	1	0	23.43	<b>26.55</b>	33	-6.45
				1	99	22.92	26.04	33	-6.96
				50	25	22.16	25.28	33	-7.72
				100	0	22.14	25.26	33	-7.74

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Antenna gain (dBi)		3.4							
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	22.51	25.91	30	-4.09
				1	5	22.64	26.04	30	-3.96
				3	2	22.68	<b>26.08</b>	30	-3.92
				6	0	21.53	24.93	30	-5.07
	132322	1745	QPSK	1	0	22.52	25.92	30	-4.08
				1	5	22.50	25.90	30	-4.1
				3	2	22.58	25.98	30	-4.02
				6	0	21.52	24.92	30	-5.08
	132665	1779.3	QPSK	1	0	22.09	25.49	30	-4.51
				1	5	22.23	25.63	30	-4.37
				3	2	22.35	25.75	30	-4.25
				6	0	21.40	24.80	30	-5.2
1.4	131979	1710.7	16QAM	1	0	21.90	<b>25.30</b>	30	-4.7
				1	5	21.64	25.04	30	-4.96
				3	2	21.84	25.24	30	-4.76
				6	0	20.54	23.94	30	-6.06
	132322	1745	16QAM	1	0	21.14	24.54	30	-5.46
				1	5	21.50	24.90	30	-5.1
				3	2	21.54	24.94	30	-5.06
				6	0	20.67	24.07	30	-5.93
	132665	1779.3	16QAM	1	0	21.45	24.85	30	-5.15
				1	5	21.57	24.97	30	-5.03
				3	2	21.30	24.70	30	-5.3
				6	0	20.45	23.85	30	-6.15
1.4	131979	1710.7	64QAM	1	0	20.82	24.22	30	-5.78
				1	5	20.96	<b>24.36</b>	30	-5.64
				3	2	20.84	24.24	30	-5.76
				6	0	19.72	23.12	30	-6.88
	132322	1745	64QAM	1	0	20.93	24.33	30	-5.67
				1	5	20.67	24.07	30	-5.93
				3	2	20.74	24.14	30	-5.86
				6	0	19.32	22.72	30	-7.28
	132665	1779.3	64QAM	1	0	20.55	23.95	30	-6.05
				1	5	20.51	23.91	30	-6.09
				3	2	20.47	23.87	30	-6.13
				6	0	19.40	22.80	30	-7.2

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Antenna gain (dBi)		3.4							
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	22.69	26.09	30	-3.91
				1	14	22.90	<b>26.30</b>	30	-3.7
				8	4	21.70	25.10	30	-4.9
				15	0	21.64	25.04	30	-4.96
	132322	1745	QPSK	1	0	22.63	26.03	30	-3.97
				1	14	22.57	25.97	30	-4.03
				8	4	21.58	24.98	30	-5.02
				15	0	21.57	24.97	30	-5.03
	132657	1778.5	QPSK	1	0	22.32	25.72	30	-4.28
				1	14	22.36	25.76	30	-4.24
				8	4	21.48	24.88	30	-5.12
				15	0	21.46	24.86	30	-5.14
3	131987	1711.5	16QAM	1	0	22.05	<b>25.45</b>	30	-4.55
				1	14	21.89	25.29	30	-4.71
				8	4	20.81	24.21	30	-5.79
				15	0	20.66	24.06	30	-5.94
	132322	1745	16QAM	1	0	21.80	25.20	30	-4.8
				1	14	21.77	25.17	30	-4.83
				8	4	20.68	24.08	30	-5.92
				15	0	20.63	24.03	30	-5.97
	132657	1778.5	16QAM	1	0	21.42	24.82	30	-5.18
				1	14	21.74	25.14	30	-4.86
				8	4	20.60	24.00	30	-6
				15	0	20.51	23.91	30	-6.09
3	131987	1711.5	64QAM	1	0	20.92	<b>24.32</b>	30	-5.68
				1	14	20.63	24.03	30	-5.97
				8	4	19.69	23.09	30	-6.91
				15	0	19.69	23.09	30	-6.91
	132322	1745	64QAM	1	0	20.68	24.08	30	-5.92
				1	14	20.56	23.96	30	-6.04
				8	4	19.69	23.09	30	-6.91
				15	0	19.58	22.98	30	-7.02
	132657	1778.5	64QAM	1	0	20.44	23.84	30	-6.16
				1	14	20.52	23.92	30	-6.08
				8	4	19.53	22.93	30	-7.07
				15	0	19.52	22.92	30	-7.08

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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	22.84	26.24	30	-3.76
				1	24	22.54	25.94	30	-4.06
				12	6	21.80	25.20	30	-4.8
				25	0	21.66	25.06	30	-4.94
	132322	1745	QPSK	1	0	22.64	26.04	30	-3.96
				1	24	22.55	25.95	30	-4.05
				12	6	21.61	25.01	30	-4.99
				25	0	21.53	24.93	30	-5.07
	132647	1777.5	QPSK	1	0	22.46	25.86	30	-4.14
				1	24	22.45	25.85	30	-4.15
				12	6	21.50	24.90	30	-5.1
				25	0	21.44	24.84	30	-5.16
5	131997	1712.5	16QAM	1	0	21.71	25.11	30	-4.89
				1	24	21.63	25.03	30	-4.97
				12	6	20.72	24.12	30	-5.88
				25	0	20.70	24.10	30	-5.9
	132322	1745	16QAM	1	0	21.74	25.14	30	-4.86
				1	24	21.83	25.23	30	-4.77
				12	6	20.67	24.07	30	-5.93
				25	0	20.51	23.91	30	-6.09
	132647	1777.5	16QAM	1	0	21.64	25.04	30	-4.96
				1	24	21.49	24.89	30	-5.11
				12	6	20.53	23.93	30	-6.07
				25	0	20.47	23.87	30	-6.13
5	131997	1712.5	64QAM	1	0	20.98	24.38	30	-5.62
				1	24	20.81	24.21	30	-5.79
				12	6	19.82	23.22	30	-6.78
				25	0	19.61	23.01	30	-6.99
	132322	1745	64QAM	1	0	19.62	23.02	30	-6.98
				1	24	20.52	23.92	30	-6.08
				12	6	19.74	23.14	30	-6.86
				25	0	19.60	23.00	30	-7
	132647	1777.5	64QAM	1	0	20.36	23.76	30	-6.24
				1	24	20.27	23.67	30	-6.33
				12	6	19.58	22.98	30	-7.02
				25	0	19.49	22.89	30	-7.11

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Antenna gain (dBi)		3.4							
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	22.69	26.09	30	-3.91
				1	49	22.61	26.01	30	-3.99
				25	12	21.74	25.14	30	-4.86
				50	0	21.72	25.12	30	-4.88
	132322	1745	QPSK	1	0	22.66	26.06	30	-3.94
				1	49	22.83	26.23	30	-3.77
				25	12	21.61	25.01	30	-4.99
				50	0	21.64	25.04	30	-4.96
	132622	1775	QPSK	1	0	22.40	25.80	30	-4.2
				1	49	22.35	25.75	30	-4.25
				25	12	21.48	24.88	30	-5.12
				50	0	21.47	24.87	30	-5.13
10	132022	1715	16QAM	1	0	21.98	25.38	30	-4.62
				1	49	21.60	25.00	30	-5
				25	12	20.58	23.98	30	-6.02
				50	0	20.70	24.10	30	-5.9
	132322	1745	16QAM	1	0	21.75	25.15	30	-4.85
				1	49	21.88	25.28	30	-4.72
				25	12	20.60	24.00	30	-6
				50	0	20.57	23.97	30	-6.03
	132622	1775	16QAM	1	0	21.90	25.30	30	-4.7
				1	49	21.65	25.05	30	-4.95
				25	12	20.45	23.85	30	-6.15
				50	0	20.51	23.91	30	-6.09
10	132022	1715	64QAM	1	0	20.82	24.22	30	-5.78
				1	49	20.87	24.27	30	-5.73
				25	12	19.73	23.13	30	-6.87
				50	0	19.73	23.13	30	-6.87
	132322	1745	64QAM	1	0	20.98	24.38	30	-5.62
				1	49	20.61	24.01	30	-5.99
				25	12	19.62	23.02	30	-6.98
				50	0	19.56	22.96	30	-7.04
	132622	1775	64QAM	1	0	20.36	23.76	30	-6.24
				1	49	20.73	24.13	30	-5.87
				25	12	19.42	22.82	30	-7.18
				50	0	19.41	22.81	30	-7.19

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Antenna gain (dBi)		3.4							
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	22.66	26.06	30	-3.94
				1	74	22.53	25.93	30	-4.07
				36	18	21.71	25.11	30	-4.89
				75	0	21.66	25.06	30	-4.94
	132322	1745	QPSK	1	0	22.56	25.96	30	-4.04
				1	74	22.61	26.01	30	-3.99
				36	18	21.62	25.02	30	-4.98
				75	0	21.56	24.96	30	-5.04
	132597	1772.5	QPSK	1	0	22.67	<b>26.07</b>	30	-3.93
				1	74	22.41	25.81	30	-4.19
				36	18	21.52	24.92	30	-5.08
				75	0	21.55	24.95	30	-5.05
15	132047	1717.5	16QAM	1	0	22.00	<b>25.40</b>	30	-4.6
				1	74	21.71	25.11	30	-4.89
				36	18	20.76	24.16	30	-5.84
				75	0	20.64	24.04	30	-5.96
	132322	1745	16QAM	1	0	21.88	25.28	30	-4.72
				1	74	21.63	25.03	30	-4.97
				36	18	20.67	24.07	30	-5.93
				75	0	20.61	24.01	30	-5.99
	132597	1772.5	16QAM	1	0	21.62	25.02	30	-4.98
				1	74	21.17	24.57	30	-5.43
				36	18	20.28	23.68	30	-6.32
				75	0	20.49	23.89	30	-6.11
15	132047	1717.5	64QAM	1	0	20.68	24.08	30	-5.92
				1	74	20.67	24.07	30	-5.93
				36	18	19.74	23.14	30	-6.86
				75	0	19.64	23.04	30	-6.96
	132322	1745	64QAM	1	0	20.63	24.03	30	-5.97
				1	74	20.71	<b>24.11</b>	30	-5.89
				36	18	19.62	23.02	30	-6.98
				75	0	19.57	22.97	30	-7.03
	132597	1772.5	64QAM	1	0	20.51	23.91	30	-6.09
				1	74	20.49	23.89	30	-6.11
				36	18	19.46	22.86	30	-7.14
				75	0	19.51	22.91	30	-7.09

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Antenna gain (dBi)		3.4							
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	22.22	25.62	30	-4.38
				1	99	22.74	<b>26.14</b>	30	-3.86
				50	25	21.64	25.04	30	-4.96
				100	0	21.68	25.08	30	-4.92
	132322	1745	QPSK	1	0	22.67	26.07	30	-3.93
				1	99	22.61	26.01	30	-3.99
				50	25	21.62	25.02	30	-4.98
				100	0	21.64	25.04	30	-4.96
	132572	1770	QPSK	1	0	22.35	25.75	30	-4.25
				1	99	22.50	25.90	30	-4.1
				50	25	21.56	24.96	30	-5.04
				100	0	21.48	24.88	30	-5.12
20	132072	1720	16QAM	1	0	21.87	25.27	30	-4.73
				1	99	21.75	25.15	30	-4.85
				50	25	20.55	23.95	30	-6.05
				100	0	20.50	23.90	30	-6.1
	132322	1745	16QAM	1	0	22.14	<b>25.54</b>	30	-4.46
				1	99	21.54	24.94	30	-5.06
				50	25	20.68	24.08	30	-5.92
				100	0	20.68	24.08	30	-5.92
	132572	1770	16QAM	1	0	21.56	24.96	30	-5.04
				1	99	21.63	25.03	30	-4.97
				50	25	20.53	23.93	30	-6.07
				100	0	20.54	23.94	30	-6.06
20	132072	1720	64QAM	1	0	20.83	<b>24.23</b>	30	-5.77
				1	99	20.46	23.86	30	-6.14
				50	25	19.67	23.07	30	-6.93
				100	0	19.59	22.99	30	-7.01
	132322	1745	64QAM	1	0	20.75	24.15	30	-5.85
				1	99	20.39	23.79	30	-6.21
				50	25	19.57	22.97	30	-7.03
				100	0	19.63	23.03	30	-6.97
	132572	1770	64QAM	1	0	20.77	24.17	30	-5.83
				1	99	20.58	23.98	30	-6.02
				50	25	19.58	22.98	30	-7.02
				100	0	19.59	22.99	30	-7.01

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Antenna gain (dBi)		1.26							
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	22.48	22.48	34.77	-12.29
				1	24	22.34	22.34	34.77	-12.43
				12	6	21.51	21.51	34.77	-13.26
				25	0	21.44	21.44	34.77	-13.33
	133297	680.5	QPSK	1	0	22.65	22.65	34.77	-12.12
				1	24	22.58	22.58	34.77	-12.19
				12	6	21.69	21.69	34.77	-13.08
				25	0	21.63	21.63	34.77	-13.14
	133447	695.5	QPSK	1	0	22.65	22.65	34.77	-12.12
				1	24	22.58	22.58	34.77	-12.19
				12	6	21.69	21.69	34.77	-13.08
				25	0	21.63	21.63	34.77	-13.14
5	133147	665.5	16QAM	1	0	21.81	21.81	34.77	-12.96
				1	24	21.72	21.72	34.77	-13.05
				12	6	20.60	20.60	34.77	-14.17
				25	0	20.39	20.39	34.77	-14.38
	133297	680.5	16QAM	1	0	22.02	22.02	34.77	-12.75
				1	24	21.67	21.67	34.77	-13.1
				12	6	20.72	20.72	34.77	-14.05
				25	0	20.65	20.65	34.77	-14.12
	133447	695.5	16QAM	1	0	22.02	22.02	34.77	-12.75
				1	24	21.67	21.67	34.77	-13.1
				12	6	20.72	20.72	34.77	-14.05
				25	0	20.65	20.65	34.77	-14.12
5	133147	665.5	64QAM	1	0	20.41	20.41	34.77	-14.36
				1	24	20.39	20.39	34.77	-14.38
				12	6	19.44	19.44	34.77	-15.33
				25	0	19.57	19.57	34.77	-15.2
	133297	680.5	64QAM	1	0	20.84	20.84	34.77	-13.93
				1	24	20.74	20.74	34.77	-14.03
				12	6	19.64	19.64	34.77	-15.13
				25	0	19.60	19.60	34.77	-15.17
	133447	695.5	64QAM	1	0	20.84	20.84	34.77	-13.93
				1	24	20.74	20.74	34.77	-14.03
				12	6	19.64	19.64	34.77	-15.13
				25	0	19.60	19.60	34.77	-15.17

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Antenna gain (dBi)		1.26							
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	22.48	22.48	34.77	-12.29
				1	49	22.37	22.37	34.77	-12.4
				25	12	21.61	21.61	34.77	-13.16
				50	0	21.54	21.54	34.77	-13.23
	133297	680.5	QPSK	1	0	22.55	22.55	34.77	-12.22
				1	49	22.58	<b>22.58</b>	34.77	-12.19
				25	12	21.64	21.64	34.77	-13.13
				50	0	21.61	21.61	34.77	-13.16
	133422	693	QPSK	1	0	22.57	22.57	34.77	-12.2
				1	49	22.46	22.46	34.77	-12.31
				25	12	21.57	21.57	34.77	-13.2
				50	0	21.60	21.60	34.77	-13.17
10	133172	668	16QAM	1	0	21.40	21.40	34.77	-13.37
				1	49	21.71	21.71	34.77	-13.06
				25	12	20.67	20.67	34.77	-14.1
				50	0	20.64	20.64	34.77	-14.13
	133297	680.5	16QAM	1	0	21.82	21.82	34.77	-12.95
				1	49	21.79	21.79	34.77	-12.98
				25	12	20.72	20.72	34.77	-14.05
				50	0	20.73	20.73	34.77	-14.04
	133422	693	16QAM	1	0	21.85	21.85	34.77	-12.92
				1	49	21.90	<b>21.90</b>	34.77	-12.87
				25	12	20.55	20.55	34.77	-14.22
				50	0	20.63	20.63	34.77	-14.14
10	133172	668	64QAM	1	0	20.98	<b>20.98</b>	34.77	-13.79
				1	49	20.59	20.59	34.77	-14.18
				25	12	19.68	19.68	34.77	-15.09
				50	0	19.54	19.54	34.77	-15.23
	133297	680.5	64QAM	1	0	20.49	20.49	34.77	-14.28
				1	49	20.54	20.54	34.77	-14.23
				25	12	19.65	19.65	34.77	-15.12
				50	0	19.66	19.66	34.77	-15.11
	133422	693	64QAM	1	0	20.86	20.86	34.77	-13.91
				1	49	20.66	20.66	34.77	-14.11
				25	12	19.59	19.59	34.77	-15.18
				50	0	19.63	19.63	34.77	-15.14

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Antenna gain (dBi)		1.26							
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	22.60	<b>22.60</b>	34.77	-12.17
				1	74	22.52	22.52	34.77	-12.25
				36	18	21.55	21.55	34.77	-13.22
				75	0	21.57	21.57	34.77	-13.2
	133297	680.5	QPSK	1	0	22.57	22.57	34.77	-12.2
				1	74	22.49	22.49	34.77	-12.28
				36	18	21.64	21.64	34.77	-13.13
				75	0	21.58	21.58	34.77	-13.19
	133397	690.5	QPSK	1	0	22.53	22.53	34.77	-12.24
				1	74	22.58	22.58	34.77	-12.19
				36	18	21.67	21.67	34.77	-13.1
				75	0	21.44	21.44	34.77	-13.33
15	133197	670.5	16QAM	1	0	21.71	21.71	34.77	-13.06
				1	74	21.81	21.81	34.77	-12.96
				36	18	20.52	20.52	34.77	-14.25
				75	0	20.67	20.67	34.77	-14.1
	133297	680.5	16QAM	1	0	21.78	21.78	34.77	-12.99
				1	74	21.84	<b>21.84</b>	34.77	-12.93
				36	18	20.64	20.64	34.77	-14.13
				75	0	20.55	20.55	34.77	-14.22
	133397	690.5	16QAM	1	0	21.84	<b>21.84</b>	34.77	-12.93
				1	74	21.81	21.81	34.77	-12.96
				36	18	20.58	20.58	34.77	-14.19
				75	0	20.60	20.60	34.77	-14.17
15	133197	670.5	64QAM	1	0	21.31	<b>21.31</b>	34.77	-13.46
				1	74	20.84	20.84	34.77	-13.93
				36	18	19.50	19.50	34.77	-15.27
				75	0	19.54	19.54	34.77	-15.23
	133297	680.5	64QAM	1	0	20.64	20.64	34.77	-14.13
				1	74	20.74	20.74	34.77	-14.03
				36	18	19.65	19.65	34.77	-15.12
				75	0	19.60	19.60	34.77	-15.17
	133397	690.5	64QAM	1	0	20.85	20.85	34.77	-13.92
				1	74	20.70	20.70	34.77	-14.07
				36	18	19.70	19.70	34.77	-15.07
				75	0	19.59	19.59	34.77	-15.18

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Antenna gain (dBi)		1.26							
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	22.62	22.62	34.77	-12.15
				1	99	22.49	22.49	34.77	-12.28
				50	25	21.58	21.58	34.77	-13.19
				100	0	21.65	21.65	34.77	-13.12
	133297	680.5	QPSK	1	0	22.52	22.52	34.77	-12.25
				1	99	22.51	22.51	34.77	-12.26
				50	25	21.61	21.61	34.77	-13.16
				100	0	21.62	21.62	34.77	-13.15
	133372	688	QPSK	1	0	22.69	22.69	34.77	-12.08
				1	99	22.55	22.55	34.77	-12.22
				50	25	21.66	21.66	34.77	-13.11
				100	0	21.68	21.68	34.77	-13.09
20	133222	673	16QAM	1	0	22.28	22.28	34.77	-12.49
				1	99	21.66	21.66	34.77	-13.11
				50	25	20.56	20.56	34.77	-14.21
				100	0	20.57	20.57	34.77	-14.2
	133297	680.5	16QAM	1	0	21.68	21.68	34.77	-13.09
				1	99	21.73	21.73	34.77	-13.04
				50	25	20.65	20.65	34.77	-14.12
				100	0	20.61	20.61	34.77	-14.16
	133372	688	16QAM	1	0	21.69	21.69	34.77	-13.08
				1	99	21.70	21.70	34.77	-13.07
				50	25	20.73	20.73	34.77	-14.04
				100	0	20.66	20.66	34.77	-14.11
20	133222	673	64QAM	1	0	20.67	20.67	34.77	-14.1
				1	99	20.90	20.90	34.77	-13.87
				50	25	19.63	19.63	34.77	-15.14
				100	0	19.53	19.53	34.77	-15.24
	133297	680.5	64QAM	1	0	20.64	20.64	34.77	-14.13
				1	99	20.55	20.55	34.77	-14.22
				50	25	19.58	19.58	34.77	-15.19
				100	0	19.59	19.59	34.77	-15.18
	133372	688	64QAM	1	0	21.10	21.10	34.77	-13.67
				1	99	20.31	20.31	34.77	-14.46
				50	25	19.73	19.73	34.77	-15.04
				100	0	19.66	19.66	34.77	-15.11

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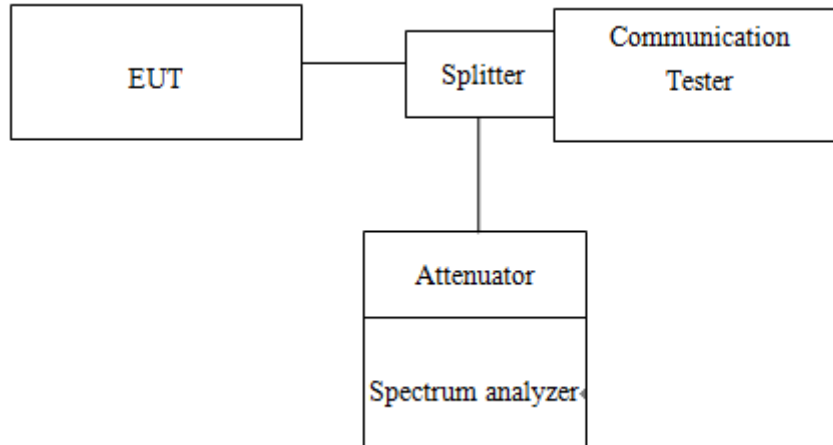
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## 8 OCCUPIED BANDWIDTH MEASUREMENT

### 8.1 Standard Applicable

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

### 8.2 Test Set-up



### 8.3 Measurement Procedure

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

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

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

The EUT's output RF connector was connected with a short cable to the spectrum analyzer, RBW was set to about 1% ~ 5% of emission BW, VBW= 3 times RBW. Set RBW= 1% ~ 5%, VBW= 3 \* RBW, with span > 2 \* Signal BW, set % Power = 99%.

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### 8.4 Measurement Result

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	<b>1.0862</b>	1.0852	<b>1.0855</b>	<b>1.225</b>	<b>1.221</b>	1.222
1880.0	18900	1.0843	<b>1.0857</b>	1.0848	<b>1.225</b>	1.213	<b>1.223</b>
1909.3	19193	1.0852	1.0854	1.0850	1.222	1.216	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	2.6866	<b>2.6922</b>	2.6896	2.967	2.978	2.927
1880.0	18900	2.6871	2.6901	<b>2.6934</b>	<b>2.973</b>	<b>2.981</b>	<b>2.957</b>
1908.5	19185	<b>2.6872</b>	2.6877	2.6920	2.952	2.968	2.952

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	4.4868	<b>4.4885</b>	4.4960	<b>4.948</b>	<b>4.965</b>	<b>4.970</b>
1880.0	18900	<b>4.4874</b>	4.4883	<b>4.5017</b>	4.928	4.929	4.945
1907.5	19175	4.4848	4.4863	4.4937	4.945	4.949	4.951

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	<b>8.9849</b>	<b>8.9753</b>	8.9571	9.748	<b>9.764</b>	<b>9.759</b>
1880.0	18900	8.9763	8.9436	<b>8.9689</b>	<b>9.795</b>	9.655	9.744
1905.0	19150	8.9789	8.9450	8.9650	9.789	9.650	9.758

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	13.428	13.422	13.389	<b>14.54</b>	<b>14.58</b>	14.59
1880.0	18900	<b>13.445</b>	<b>13.435</b>	<b>13.419</b>	<b>14.54</b>	14.49	<b>14.63</b>
1902.5	19125	13.434	13.422	13.406	14.51	14.49	14.57

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	17.878	17.893	17.887	19.26	19.30	19.32
1880.0	18900	<b>17.906</b>	17.890	<b>17.922</b>	<b>19.31</b>	<b>19.34</b>	<b>19.44</b>
1900.0	19100	17.867	<b>17.917</b>	17.893	19.24	19.22	19.35

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	<b>1.0858</b>	1.0846	1.0849	<b>1.225</b>	<b>1.216</b>	<b>1.223</b>
1732.5	20175	<b>1.0858</b>	1.0833	1.0839	<b>1.225</b>	1.215	<b>1.223</b>
1754.3	20393	1.0847	<b>1.0861</b>	<b>1.0861</b>	1.221	1.214	1.221

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	2.6890	<b>2.6952</b>	2.6906	2.948	<b>2.973</b>	2.948
1732.5	20175	2.6882	2.6927	<b>2.6936</b>	2.955	2.962	2.943
1753.5	20385	<b>2.6900</b>	2.6870	2.6932	<b>2.968</b>	2.961	<b>2.956</b>

LTE BAND 4 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1712.5	19975	4.4824	4.4814	<b>4.4976</b>	<b>4.938</b>	4.885	4.942
1732.5	20175	4.4836	4.4756	4.4908	4.936	4.911	4.945
1752.5	20375	<b>4.4846</b>	<b>4.4864</b>	4.4968	4.932	<b>4.978</b>	<b>4.954</b>

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	8.9784	<b>8.9490</b>	8.9632	9.714	9.706	9.730
1732.5	20175	<b>8.9803</b>	8.9466	<b>8.9946</b>	<b>9.763</b>	9.666	9.725
1750.0	20350	8.9648	8.9421	8.9793	9.706	<b>9.709</b>	<b>9.775</b>

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	13.445	13.424	13.394	14.43	<b>14.58</b>	14.43
1732.5	20175	13.439	<b>13.425</b>	13.412	14.53	14.42	14.45
1747.5	20325	<b>13.460</b>	13.416	<b>13.421</b>	<b>14.57</b>	14.52	<b>14.55</b>

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	17.884	17.887	17.895	19.30	19.18	19.31
1732.5	20175	17.880	17.907	17.897	<b>19.33</b>	19.34	<b>19.36</b>
1745.0	20300	<b>17.912</b>	<b>17.910</b>	<b>17.911</b>	<b>19.33</b>	<b>19.35</b>	<b>19.36</b>

LTE BAND 5 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	20407	<b>1.0856</b>	<b>1.0854</b>	1.0846	1.218	1.215	<b>1.221</b>
836.5	20525	1.0846	1.0837	<b>1.0848</b>	<b>1.225</b>	1.214	1.219
848.3	20643	1.0838	1.0849	1.0840	1.220	<b>1.221</b>	<b>1.221</b>

LTE BAND 5 Channel bandwidth: 3MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
825.5	20415	<b>2.6882</b>	<b>2.6979</b>	2.6868	<b>2.972</b>	<b>3.004</b>	2.938
836.5	20525	2.6855	2.6927	2.6915	2.931	2.967	2.952
847.5	20635	2.6849	2.6967	<b>2.6923</b>	2.940	2.956	<b>2.956</b>

LTE BAND 5 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
826.5	20425	<b>4.4869</b>	4.4857	4.4967	4.922	4.945	<b>4.938</b>
836.5	20525	4.4792	4.4836	4.4927	<b>4.941</b>	4.940	4.927
846.5	20625	4.4849	<b>4.4884</b>	<b>4.4976</b>	4.935	<b>4.946</b>	4.921

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	<b>8.9885</b>	<b>8.9605</b>	<b>8.9845</b>	<b>9.737</b>	<b>9.749</b>	<b>9.739</b>
836.5	20525	8.9323	8.9164	8.9278	9.664	9.607	9.688
844.0	20600	8.9878	8.9528	8.9755	<b>9.737</b>	9.695	9.737

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LTE BAND 7 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2502.5	20775	<b>4.4840</b>	4.4845	<b>4.4941</b>	4.945	<b>4.975</b>	4.941
2535.0	21100	4.4830	<b>4.4861</b>	4.4891	4.946	4.908	<b>4.943</b>
2567.5	21425	<b>4.4840</b>	4.4785	4.4914	<b>4.965</b>	4.948	4.921

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	<b>8.9819</b>	8.9375	8.9506	<b>9.769</b>	9.663	9.710
2535.0	21100	8.9812	8.9348	8.9494	9.768	9.684	9.720
2565.0	21400	8.9582	<b>8.9410</b>	<b>8.9603</b>	9.750	<b>9.723</b>	<b>9.750</b>

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	13.401	13.417	13.391	<b>14.52</b>	14.49	14.50
2535.0	21100	13.430	<b>13.418</b>	13.402	14.49	<b>14.65</b>	<b>14.62</b>
2562.5	21375	<b>13.435</b>	<b>13.406</b>	<b>13.404</b>	<b>14.52</b>	14.56	14.51

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	17.868	<b>17.910</b>	<b>17.885</b>	19.25	19.30	19.26
2535.0	21100	<b>17.880</b>	17.877	17.872	19.19	<b>19.35</b>	<b>19.41</b>
2560.0	21350	17.875	17.896	17.880	<b>19.31</b>	19.29	19.30

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	1.0848	<b>1.0856</b>	<b>1.0843</b>	<b>1.224</b>	1.218	<b>1.222</b>
707.5	23095	<b>1.0860</b>	1.0842	1.0841	1.218	1.219	1.220
715.3	23173	1.0857	1.0851	1.0840	<b>1.224</b>	<b>1.220</b>	1.221

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	2.6851	2.6858	2.6897	2.935	2.960	<b>2.945</b>
707.5	23095	<b>2.6882</b>	<b>2.6887</b>	<b>2.6953</b>	2.944	<b>2.978</b>	2.942
714.5	23165	2.6855	2.6839	2.6879	<b>2.954</b>	2.955	2.931

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	4.4691	4.4762	4.4852	4.923	4.885	4.911
707.5	23095	<b>4.4894</b>	<b>4.4868</b>	<b>4.5055</b>	<b>4.948</b>	<b>4.960</b>	<b>4.961</b>
713.5	23155	4.4638	4.4702	4.4798	4.917	4.912	4.918

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	8.9528	8.9083	8.9266	9.625	9.707	9.666
707.5	23095	<b>9.0128</b>	<b>8.9835</b>	<b>8.9992</b>	<b>9.789</b>	<b>9.739</b>	<b>9.797</b>
711.0	23130	8.9660	8.9225	8.9330	9.679	9.596	9.685

LTE BAND 13 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
779.5	23205	4.4740	4.4725	4.4764	4.918	4.934	4.946
782.0	23230	4.4755	4.4805	4.4842	4.928	4.933	4.947
784.5	23255	<b>4.4900</b>	<b>4.4927</b>	<b>4.5059</b>	<b>4.942</b>	<b>4.948</b>	<b>4.964</b>

LTE BAND 13 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
782.0	23230	<b>8.9559</b>	<b>8.9251</b>	<b>8.9459</b>	<b>9.689</b>	<b>9.686</b>	<b>9.709</b>

LTE BAND 14 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
790.5	23305	4.4720	4.4766	4.4868	4.934	4.934	4.943
793.0	23330	4.4788	4.4838	4.4929	4.926	<b>4.953</b>	4.939
795.5	23355	<b>4.4879</b>	<b>4.4898</b>	<b>4.5007</b>	<b>4.955</b>	4.951	<b>4.944</b>

LTE BAND 14 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
793.0	23330	<b>8.9438</b>	<b>8.9156</b>	<b>8.9375</b>	<b>9.696</b>	<b>9.691</b>	<b>9.693</b>

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	<b>4.4916</b>	<b>4.4907</b>	<b>4.5055</b>	<b>4.999</b>	<b>4.943</b>	4.931
710.0	23790	4.4843	<b>4.4907</b>	4.4993	4.924	4.929	<b>4.946</b>
713.5	23825	4.4679	4.4727	4.4784	4.925	4.917	4.930

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	<b>9.0110</b>	<b>8.9714</b>	<b>9.0009</b>	<b>9.735</b>	<b>9.705</b>	<b>9.735</b>
710.0	23790	8.9936	8.9561	8.9737	9.731	9.667	9.715
711.0	23800	8.9540	8.9287	8.9546	9.684	9.621	9.678

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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>1.0864</b>	<b>1.0856</b>	1.0843	<b>1.228</b>	<b>1.220</b>	<b>1.226</b>
1882.5	26365	1.0859	1.0845	<b>1.0851</b>	1.222	1.219	1.224
1914.3	26683	1.0854	1.0855	1.0841	1.221	1.215	1.224

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	2.6859	<b>2.7025</b>	<b>2.6923</b>	2.969	2.970	2.948
1882.5	26365	2.6969	2.6905	2.6911	<b>2.984</b>	<b>2.975</b>	<b>2.954</b>
1913.5	26675	<b>2.6977</b>	2.6920	2.6920	2.969	2.964	2.949

LTE BAND 25 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1852.5	26065	<b>4.4858</b>	<b>4.4867</b>	<b>4.4992</b>	4.957	4.957	4.958
1882.5	26365	4.4828	4.4866	4.4935	<b>4.963</b>	<b>4.973</b>	<b>4.959</b>
1912.5	26665	4.4832	4.4853	4.4921	4.939	4.952	4.911

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	<b>8.9756</b>	8.9394	8.9566	9.750	9.677	9.740
1882.5	26365	8.9724	<b>8.9477</b>	<b>8.9633</b>	<b>9.757</b>	<b>9.686</b>	<b>9.779</b>
1910.0	26640	8.9636	8.9267	8.9445	9.726	9.677	9.767

LTE BAND 25 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1857.5	26115	13.451	13.415	13.409	<b>14.59</b>	14.62	<b>14.60</b>
1882.5	26365	<b>13.456</b>	<b>13.428</b>	<b>13.421</b>	<b>14.59</b>	<b>14.69</b>	14.53
1907.5	26615	13.446	13.404	13.399	14.48	14.61	14.57

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	17.865	17.899	17.879	19.26	19.33	19.39
1882.5	26365	<b>17.903</b>	<b>17.913</b>	<b>17.894</b>	<b>19.37</b>	<b>19.35</b>	<b>19.43</b>
1905.0	26590	17.867	17.892	17.889	19.30	19.25	19.32

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	1.0844	<b>1.0852</b>	<b>1.0840</b>	1.223	1.216	<b>1.223</b>
819.0	26740	<b>1.0854</b>	1.0851	1.0831	<b>1.226</b>	1.220	1.221
823.3	26783	1.0852	1.0850	1.0837	1.222	<b>1.222</b>	1.222

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>2.6889</b>	<b>2.6929</b>	<b>2.6933</b>	2.962	<b>2.977</b>	<b>2.962</b>
819.0	26740	2.6846	2.6874	2.6920	2.943	2.974	2.957
822.5	26775	2.6859	2.6856	2.6887	<b>2.963</b>	2.962	2.944

LTE BAND 26 for part 90S Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
816.5	26715	<b>4.4892</b>	<b>4.4942</b>	<b>4.4997</b>	<b>4.953</b>	<b>4.951</b>	<b>4.957</b>
819.0	26740	4.4778	4.4815	4.4947	4.925	4.920	4.934
821.5	26765	4.4730	4.4790	4.4851	4.938	4.946	4.935

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>8.9621</b>	<b>8.9279</b>	<b>8.9476</b>	<b>9.735</b>	<b>9.615</b>	<b>9.719</b>

LTE BAND 26 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
824.7	26797	<b>1.0851</b>	<b>1.0855</b>	1.0840	<b>1.224</b>	<b>1.222</b>	<b>1.222</b>
836.5	26915	1.0849	1.0844	1.0838	1.223	1.219	1.220
848.3	27033	1.0847	1.0846	<b>1.0843</b>	1.220	1.219	1.220

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>2.6885</b>	2.6916	<b>2.6972</b>	<b>2.968</b>	2.965	<b>2.960</b>
836.5	26915	2.6841	2.6895	2.6895	2.956	<b>2.980</b>	2.951
847.5	27025	2.6858	<b>2.6958</b>	2.6895	2.942	2.979	2.954

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>4.4896</b>	4.4843	4.4947	4.949	<b>4.959</b>	4.933
836.5	26915	4.4799	4.4837	4.4867	4.930	4.932	4.939
846.5	27015	4.4864	<b>4.4896</b>	<b>4.5023</b>	<b>4.952</b>	4.953	<b>4.941</b>

LTE BAND 26 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
829.0	26840	<b>8.9867</b>	<b>8.9614</b>	8.9819	9.711	9.699	<b>9.788</b>
836.5	26915	8.9659	8.9272	8.9332	9.719	9.648	9.700
844.0	26990	8.9808	8.9578	<b>8.9836</b>	<b>9.775</b>	<b>9.723</b>	9.735

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>13.497</b>	<b>13.456</b>	<b>13.452</b>	<b>14.53</b>	<b>14.60</b>	<b>14.62</b>
836.5	26915	13.398	13.371	13.346	14.34	14.57	14.53
841.5	26965	13.411	13.404	13.391	14.50	14.43	14.53

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>8.9794</b>	<b>8.9409</b>	<b>8.9644</b>	<b>9.755</b>	<b>9.710</b>	<b>9.732</b>

LTE BAND 30 Channel bandwidth: 5MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2307.5	27685	4.4822	4.4841	<b>4.4995</b>	<b>4.963</b>	4.950	4.947
2310.0	27710	4.4824	4.4850	4.4959	4.928	4.940	4.951
2312.5	27735	<b>4.4840</b>	<b>4.4861</b>	4.4973	<b>4.963</b>	<b>4.954</b>	<b>4.954</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	4.4851	4.4811	4.4852	4.953	4.935	4.902
2595.0	38000	4.4897	<b>4.4830</b>	4.4921	<b>4.960</b>	<b>4.946</b>	4.905
2617.5	38225	<b>4.4936</b>	4.4826	<b>4.4937</b>	4.952	4.935	<b>4.920</b>

LTE BAND 38 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2575.0	37800	8.9410	8.9386	8.9496	9.661	9.664	9.682
2595.0	38000	8.9575	8.9403	8.9665	9.738	9.683	<b>9.744</b>
2615.0	38200	<b>8.9633</b>	<b>8.9411</b>	<b>9.0079</b>	<b>9.743</b>	<b>9.697</b>	9.717

LTE BAND 38 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2577.5	37825	13.433	<b>13.450</b>	<b>13.410</b>	14.49	<b>14.71</b>	<b>14.62</b>
2595.0	38000	13.425	13.435	13.404	14.50	14.51	14.53
2612.5	38175	<b>13.435</b>	<b>13.442</b>	13.403	<b>14.52</b>	14.67	14.53

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	17.890	17.866	17.881	19.24	<b>19.34</b>	19.10
2595.0	38000	17.879	<b>17.867</b>	17.884	19.27	19.32	<b>19.29</b>
2610.0	38150	<b>17.894</b>	17.862	<b>17.891</b>	<b>19.32</b>	19.24	19.27

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	4.4918	4.4804	<b>4.4953</b>	<b>5.053</b>	<b>4.962</b>	<b>4.919</b>
2593.0	40620	4.4858	<b>4.4914</b>	4.4871	4.960	4.920	4.916
2687.5	41565	<b>4.4974</b>	4.4847	4.4897	4.989	4.917	4.911

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	8.9387	<b>8.9387</b>	8.9479	9.608	9.654	<b>9.744</b>
2593.0	40620	8.9344	8.9297	<b>8.9488</b>	9.665	<b>9.691</b>	9.702
2685.0	41540	<b>8.9579</b>	8.9343	8.9430	<b>9.692</b>	9.676	9.729

LTE BAND 41 Channel bandwidth: 15MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
2503.5	39725	13.395	13.427	<b>13.387</b>	<b>14.50</b>	14.71	14.52
2593.0	40620	<b>13.419</b>	13.433	13.381	14.49	14.71	14.53
2682.5	41515	13.404	<b>13.436</b>	13.382	14.48	<b>14.75</b>	<b>14.57</b>

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	17.867	<b>17.877</b>	<b>17.856</b>	19.17	<b>19.17</b>	<b>19.29</b>
2593.0	40620	<b>17.879</b>	17.866	<b>17.856</b>	<b>19.29</b>	19.14	19.27
2680.0	41490	17.836	17.840	17.831	19.23	19.10	19.28

LTE BAND 66 Channel bandwidth: 1.4MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
1710.7	131979	1.0853	1.0840	1.0838	1.221	1.217	<b>1.228</b>
1745.0	132322	<b>1.0861</b>	<b>1.0855</b>	1.0841	<b>1.226</b>	1.219	1.226
1779.3	132665	1.0847	1.0844	<b>1.0850</b>	1.222	<b>1.220</b>	1.226

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>2.6876</b>	2.6917	2.6913	<b>2.962</b>	2.973	<b>2.957</b>
1745.0	132322	2.6871	<b>2.6923</b>	<b>2.6928</b>	<b>2.962</b>	2.978	2.954
1778.5	132657	2.6857	2.6914	2.6874	2.957	<b>2.982</b>	2.956

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	<b>4.4853</b>	<b>4.4880</b>	4.4961	<b>4.963</b>	<b>4.988</b>	4.957
1745.0	132322	4.4817	4.4863	4.4967	4.954	4.987	<b>4.975</b>
1777.5	132647	4.4825	4.4826	<b>4.4968</b>	4.943	4.938	4.951

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	8.9616	<b>8.9440</b>	8.9485	9.742	<b>9.731</b>	<b>9.792</b>
1745.0	132322	<b>8.9743</b>	8.9428	<b>8.9620</b>	<b>9.768</b>	9.685	9.749
1775.0	132622	8.9620	8.9414	8.9543	9.739	9.688	9.712

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	13.456	<b>13.430</b>	13.407	14.52	14.64	<b>14.64</b>
1745.0	132322	<b>13.457</b>	13.415	<b>13.431</b>	<b>14.53</b>	<b>14.65</b>	14.59
1772.5	132597	13.435	13.411	13.416	14.43	<b>14.65</b>	14.57

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	17.879	<b>17.903</b>	<b>17.914</b>	<b>19.40</b>	19.35	<b>19.39</b>
1745.0	132322	17.861	17.896	17.898	19.25	19.30	19.34
1770.0	132572	<b>17.880</b>	17.884	17.904	19.28	<b>19.36</b>	19.31

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	4.4826	4.4847	4.4921	4.918	4.951	<b>4.948</b>
680.5	133297	<b>4.4845</b>	<b>4.4873</b>	4.4938	4.940	<b>4.957</b>	4.933
695.5	133447	4.4827	4.4846	<b>4.4961</b>	<b>4.942</b>	<b>4.957</b>	4.945

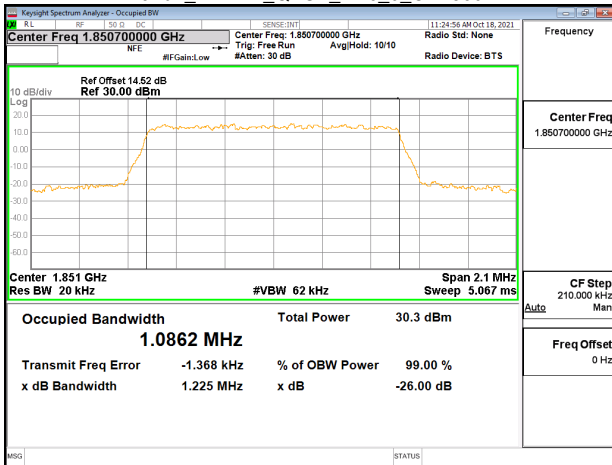
LTE BAND 71 Channel bandwidth: 10MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
668.0	133172	8.9439	8.9084	8.9174	9.689	9.611	9.711
680.5	133297	<b>8.9685</b>	8.9287	8.9556	<b>9.743</b>	9.644	9.708
693.0	133422	8.9639	<b>8.9400</b>	<b>8.9621</b>	9.710	<b>9.659</b>	<b>9.715</b>

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	13.384	13.377	13.380	14.42	14.50	14.49
680.5	133297	<b>13.429</b>	<b>13.409</b>	<b>13.402</b>	14.44	14.50	<b>14.55</b>
690.5	133397	13.425	13.402	13.398	<b>14.52</b>	<b>14.53</b>	14.54

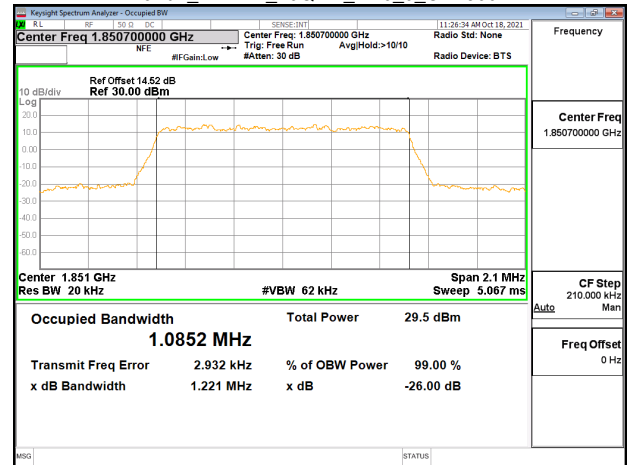
LTE BAND 71 Channel bandwidth: 20MHz							
Freq. (MHz)	CH	99% BW (MHz)			26 dB BW (MHz)		
		QPSK	16QAM	64QAM	QPSK	16QAM	64QAM
673.0	133222	17.828	17.839	17.883	19.23	<b>19.23</b>	<b>19.33</b>
680.5	133297	<b>17.871</b>	<b>17.910</b>	<b>17.901</b>	<b>19.29</b>	19.22	19.26
688.0	133372	17.838	17.847	17.838	19.23	<b>19.23</b>	19.24

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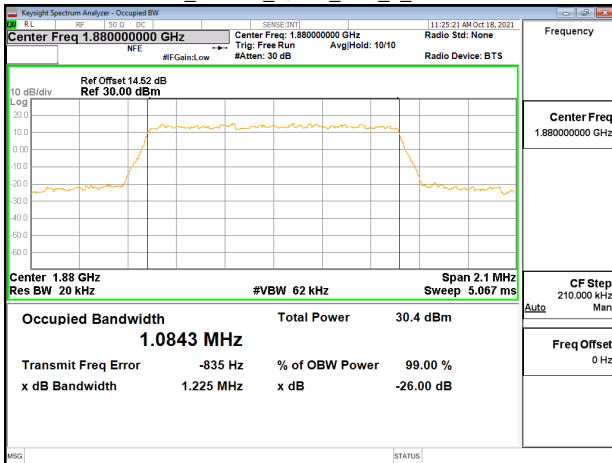
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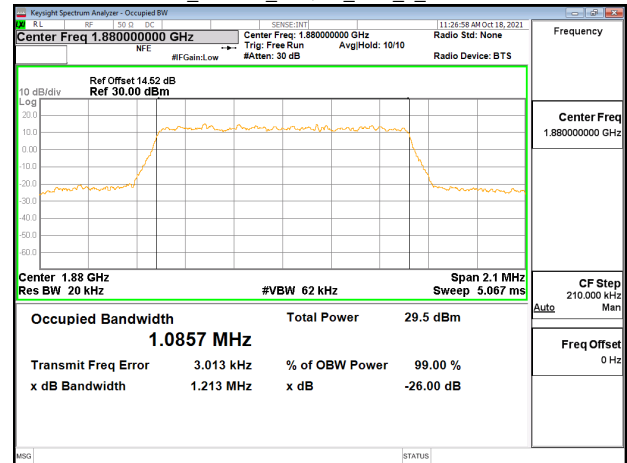
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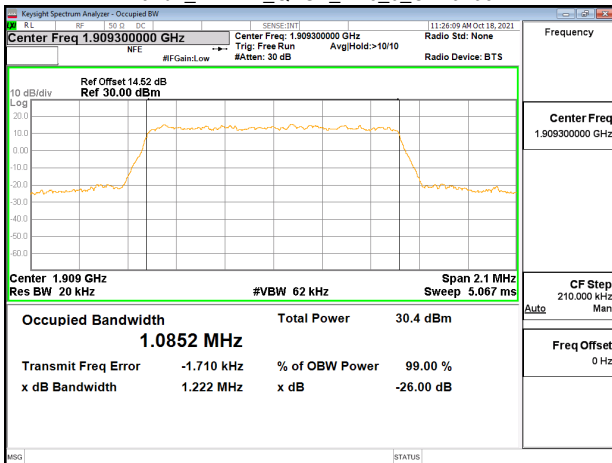
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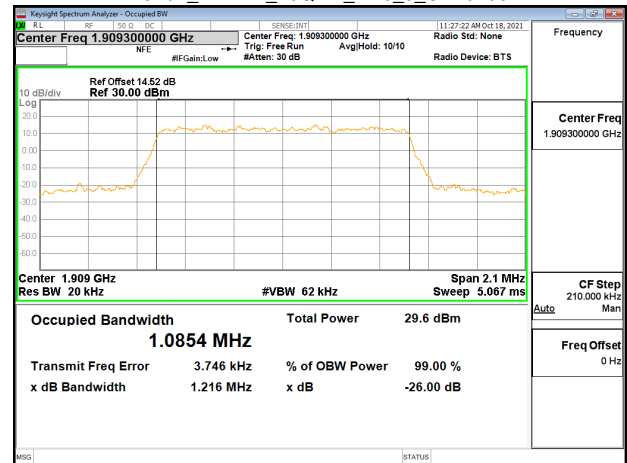
Band2\_1.4MHz\_16QAM\_RB6\_0\_CH18900



Band2\_1.4MHz\_QPSK\_RB6\_0\_CH19193



Band2\_1.4MHz\_16QAM\_RB6\_0\_CH19193

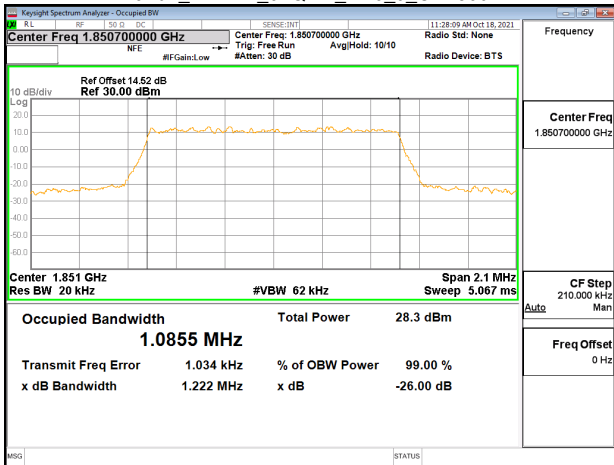


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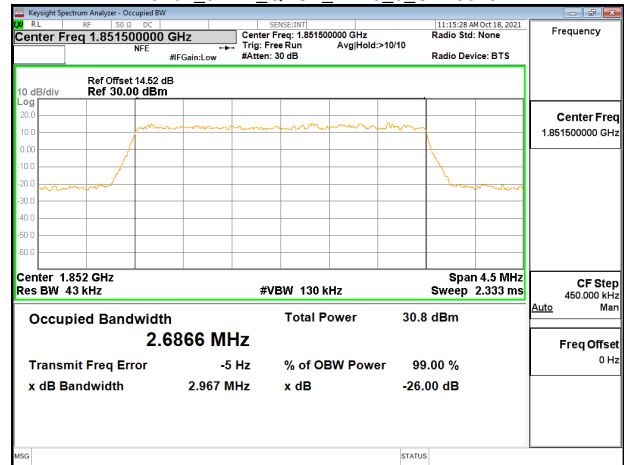
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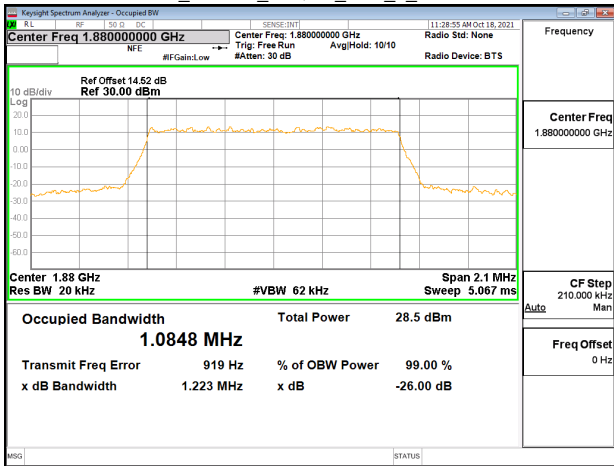
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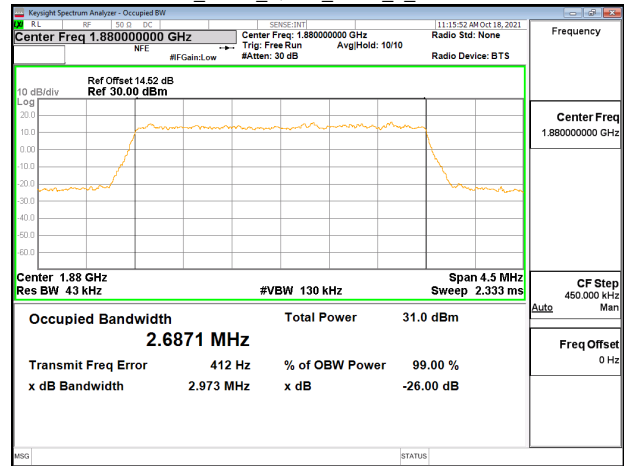
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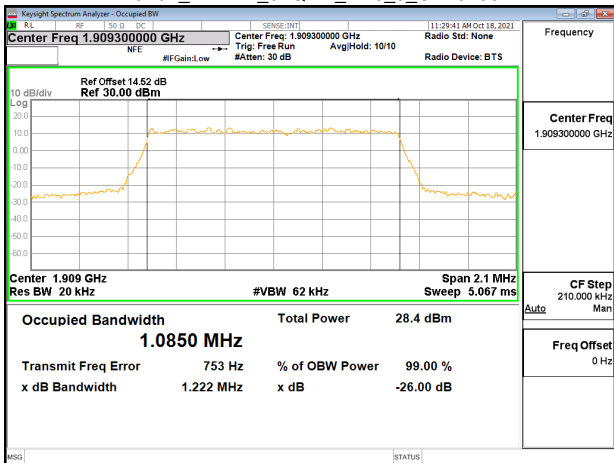
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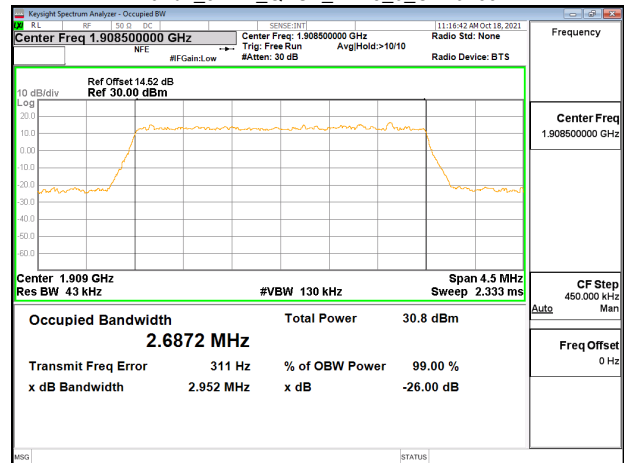
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Band2\_1.4MHz\_64QAM\_RB6\_0\_CH19193



Band2\_3MHz\_QPSK\_RB15\_0\_CH19185

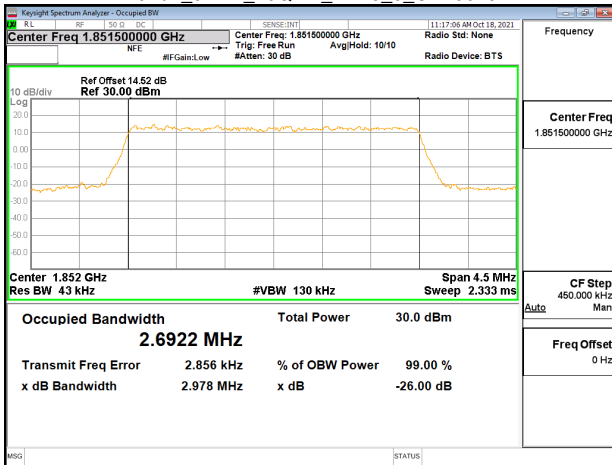


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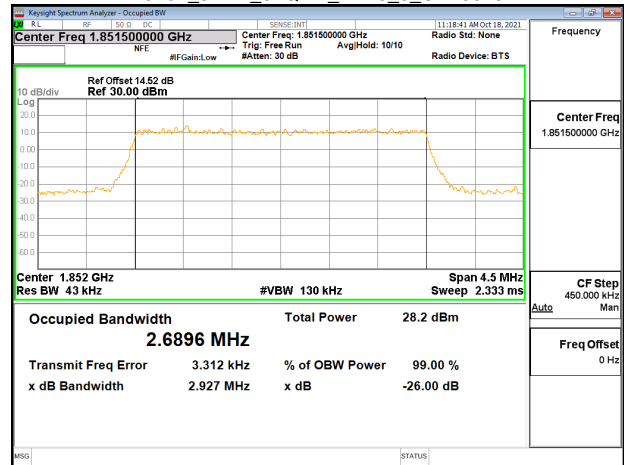
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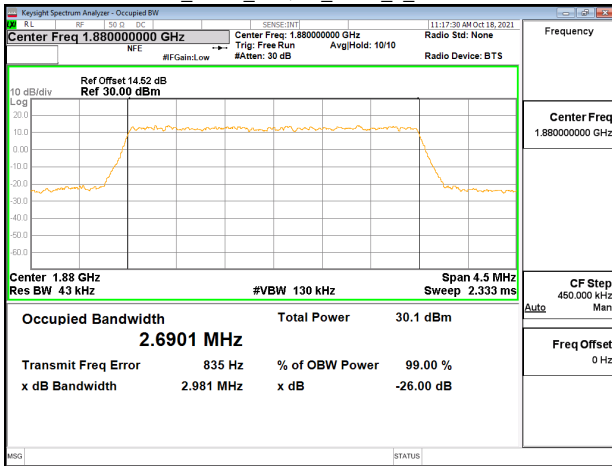
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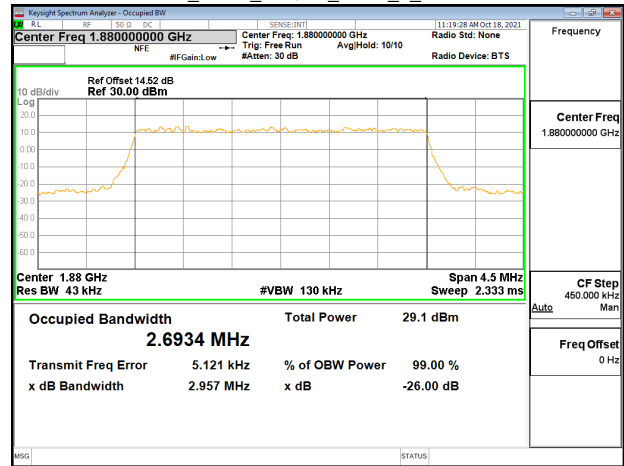
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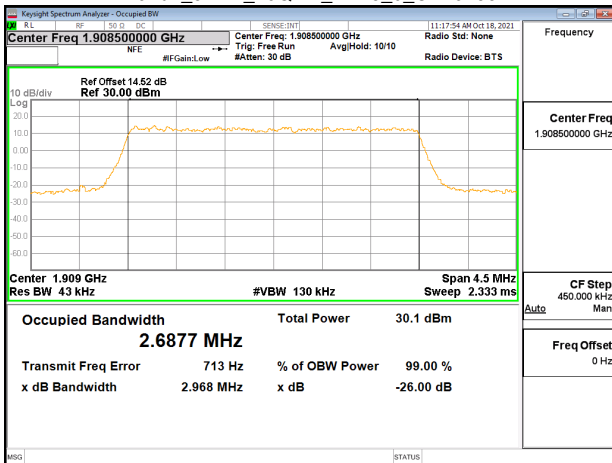
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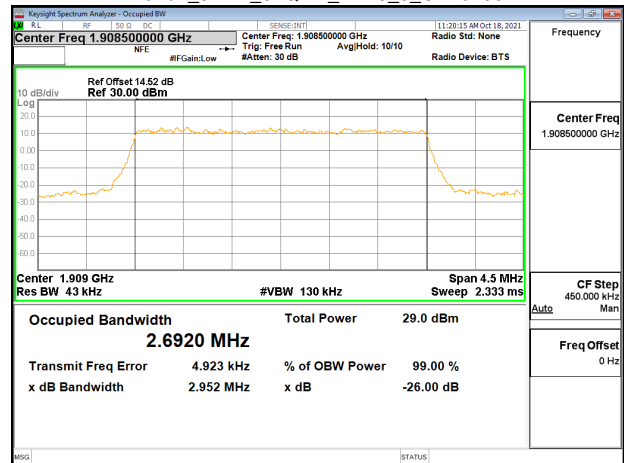
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Band2\_3MHz\_16QAM\_RB15\_0\_CH19185



Band2\_3MHz\_64QAM\_RB15\_0\_CH19185

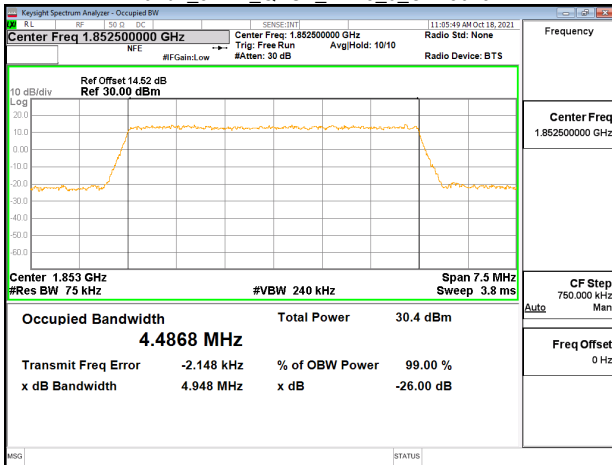


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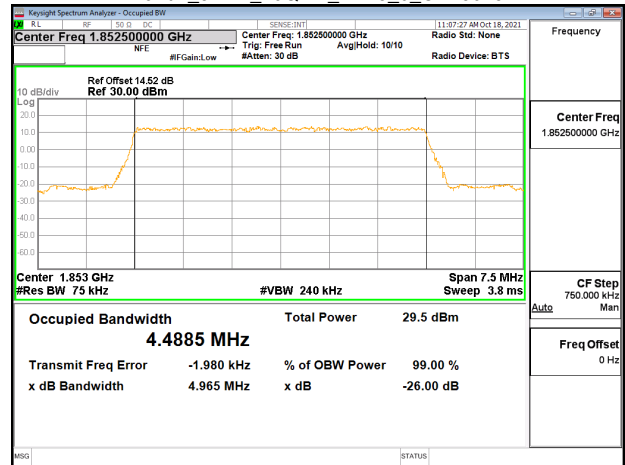
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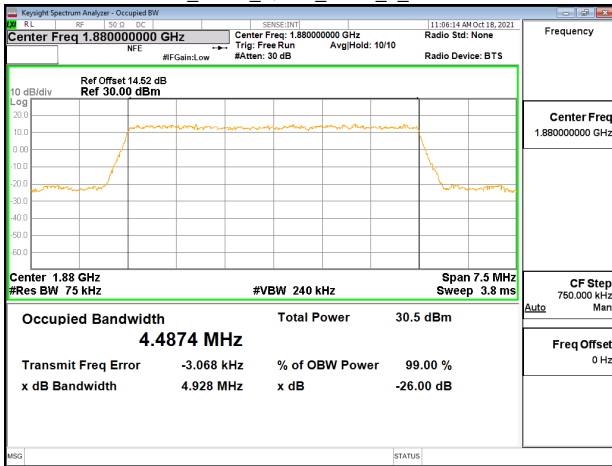
Band2\_5MHz\_QPSK\_RB25\_0\_CH18625



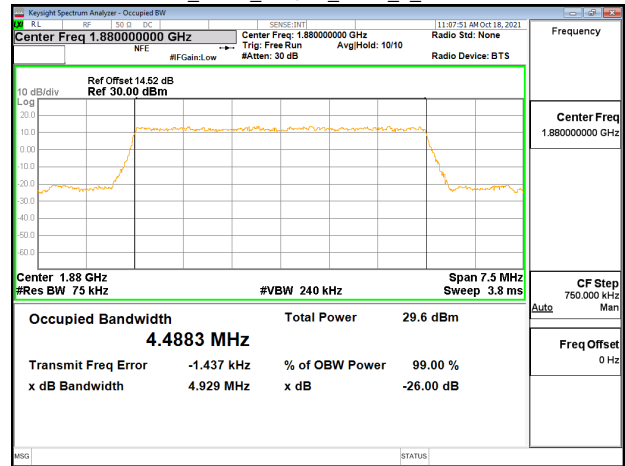
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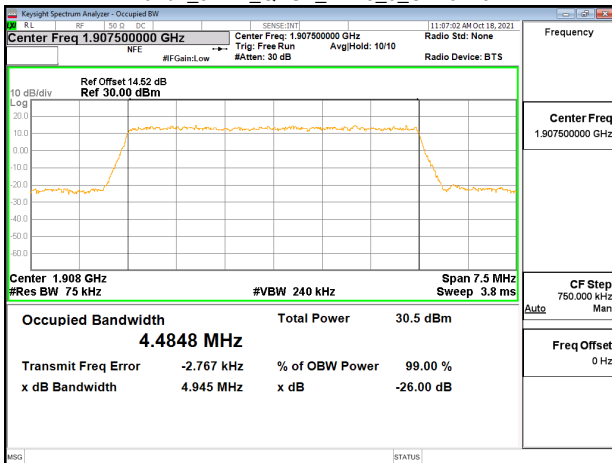
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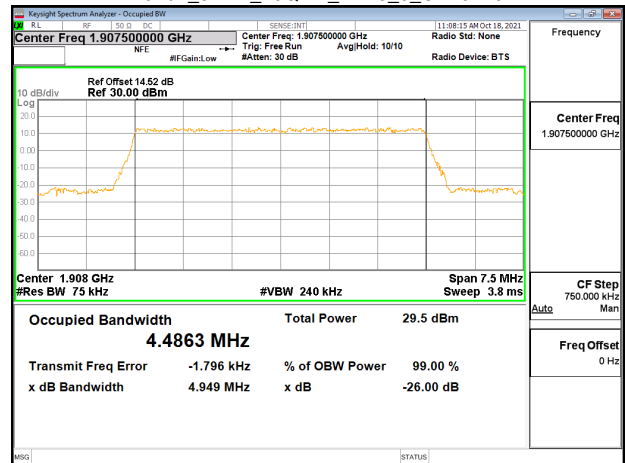
Band2\_5MHz\_16QAM\_RB25\_0\_CH18900



Band2\_5MHz\_QPSK\_RB25\_0\_CH19175



Band2\_5MHz\_16QAM\_RB25\_0\_CH19175

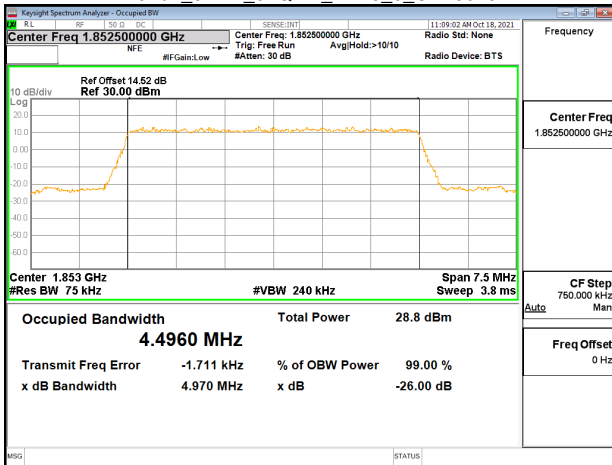


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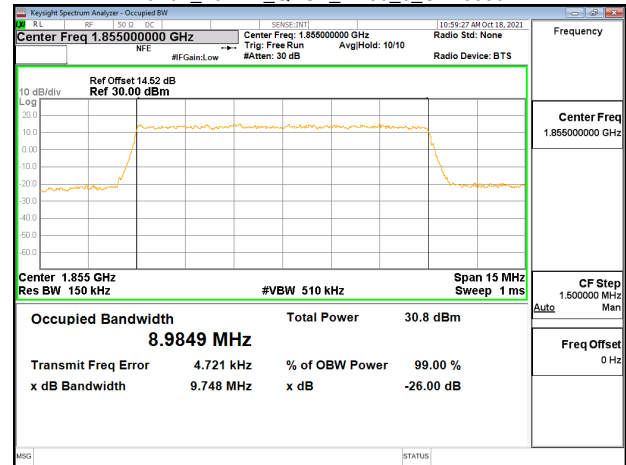
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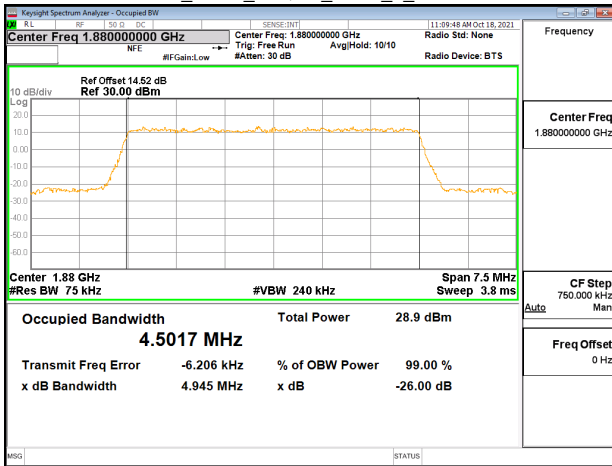
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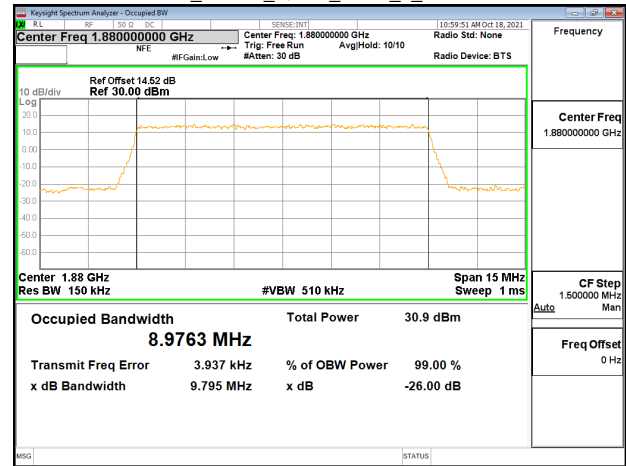
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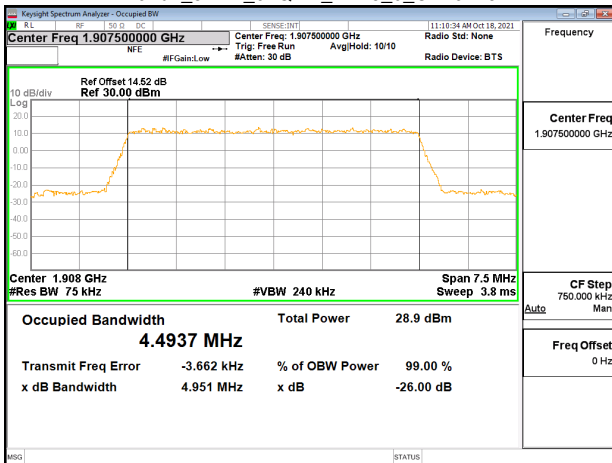
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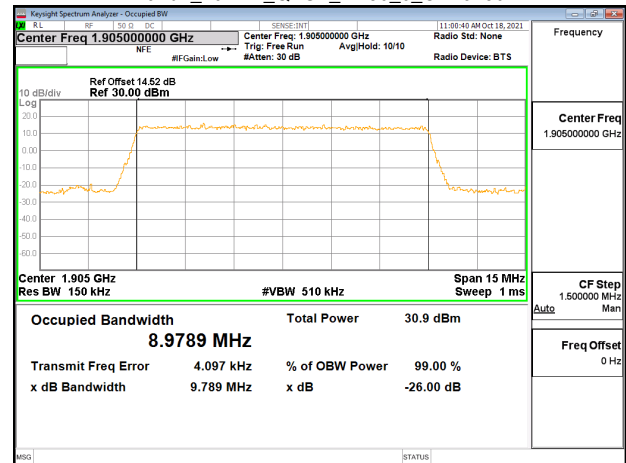
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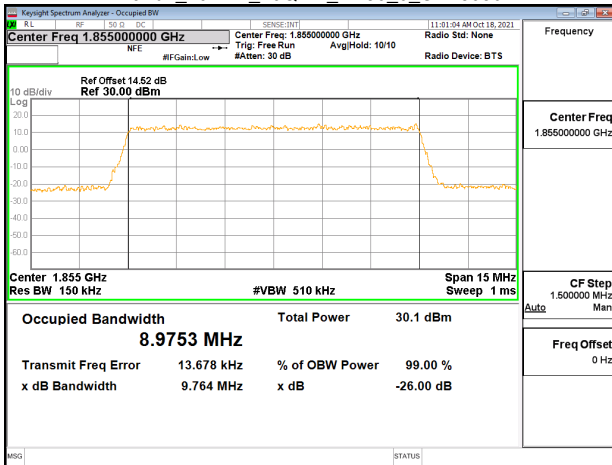


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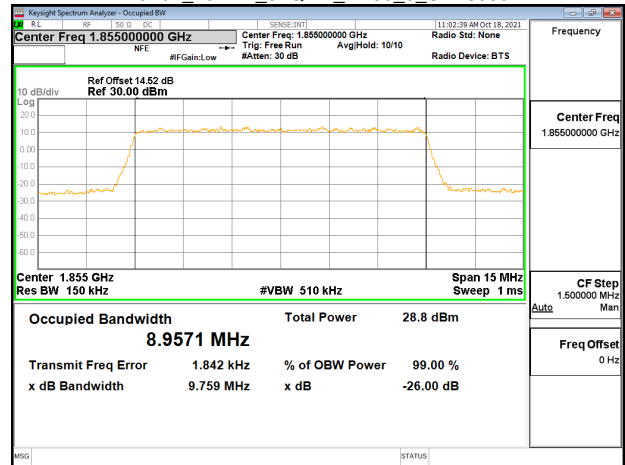
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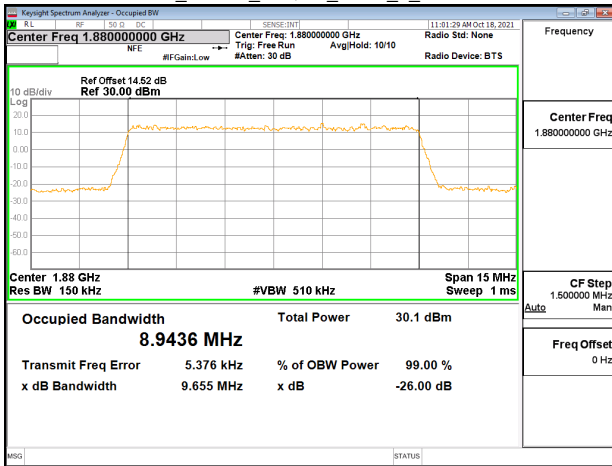
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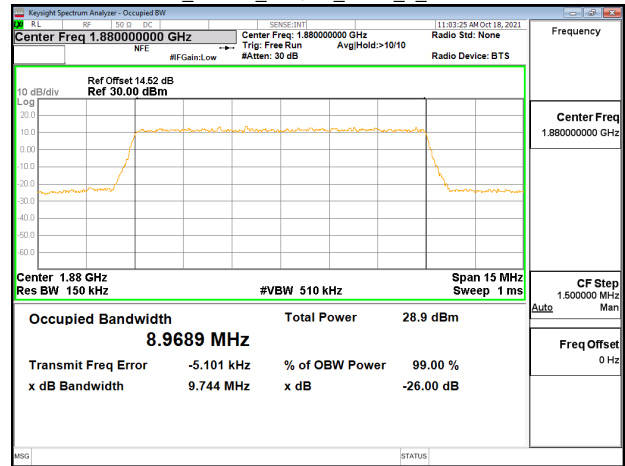
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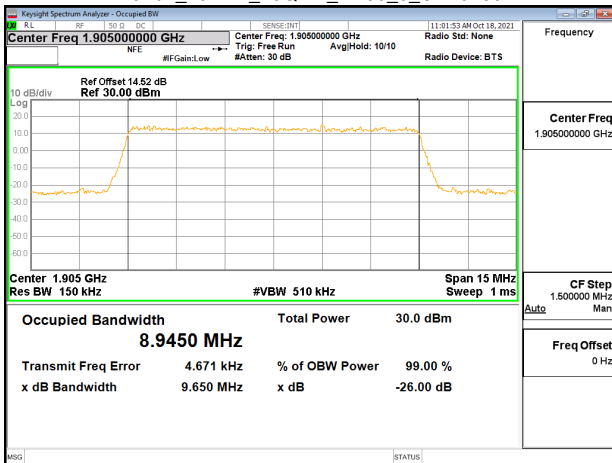
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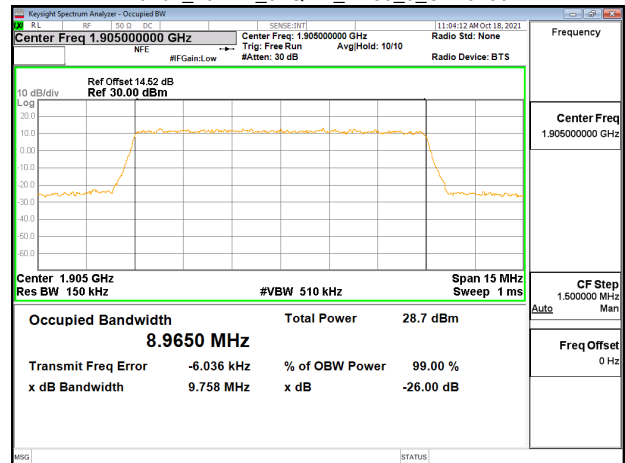
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Band2\_10MHz\_16QAM\_RB50\_0\_CH19150



Band2\_10MHz\_64QAM\_RB50\_0\_CH19150



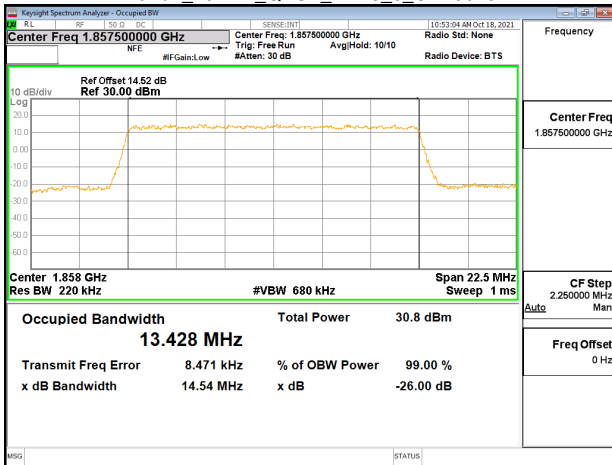
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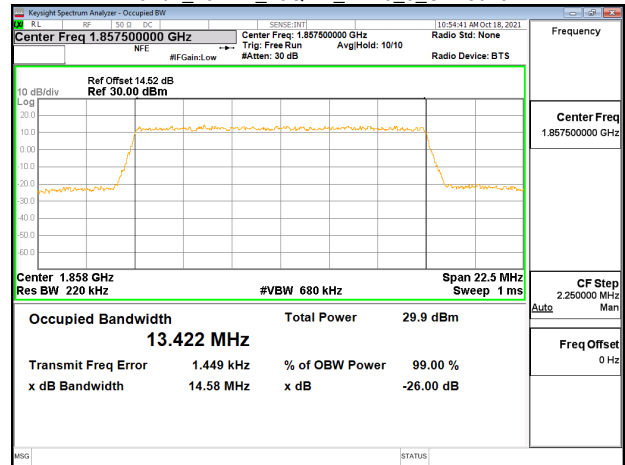
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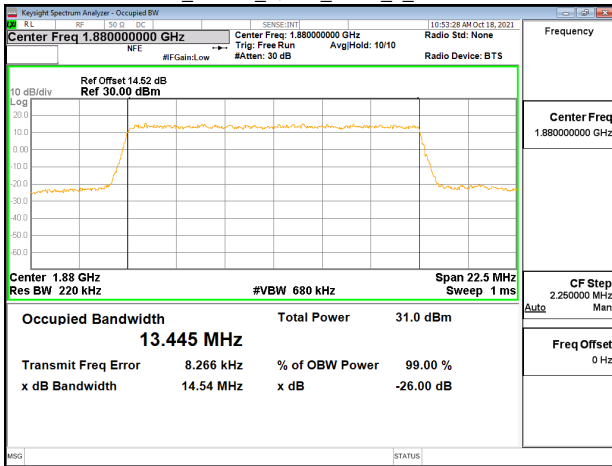
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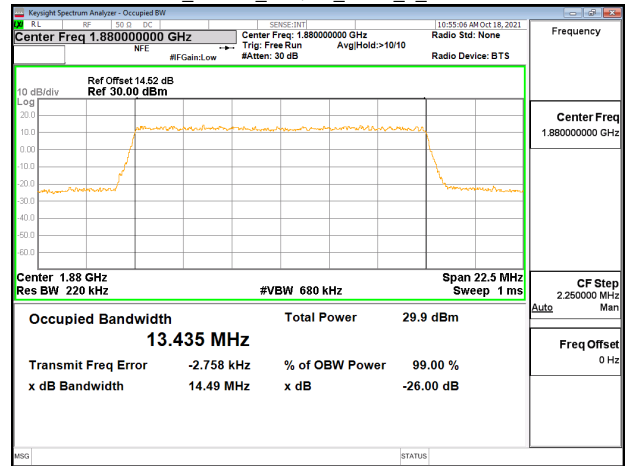
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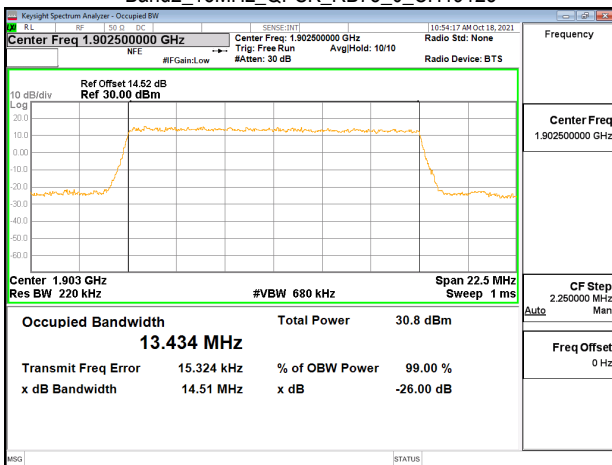
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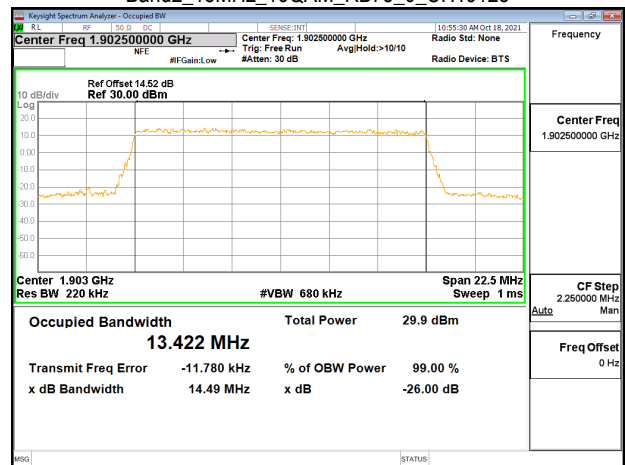
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Band2\_15MHz\_QPSK\_RB75\_0\_CH19125



Band2\_15MHz\_16QAM\_RB75\_0\_CH19125

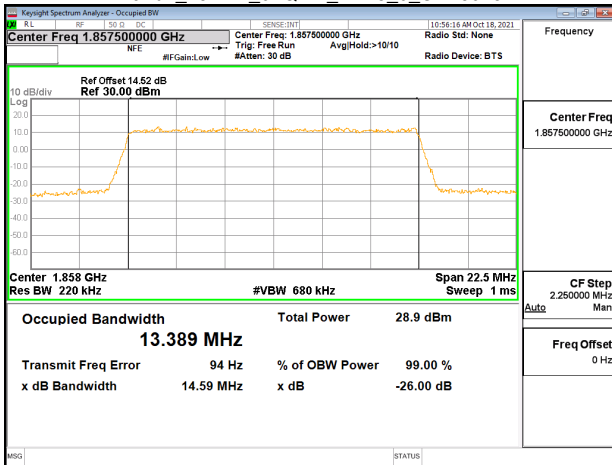


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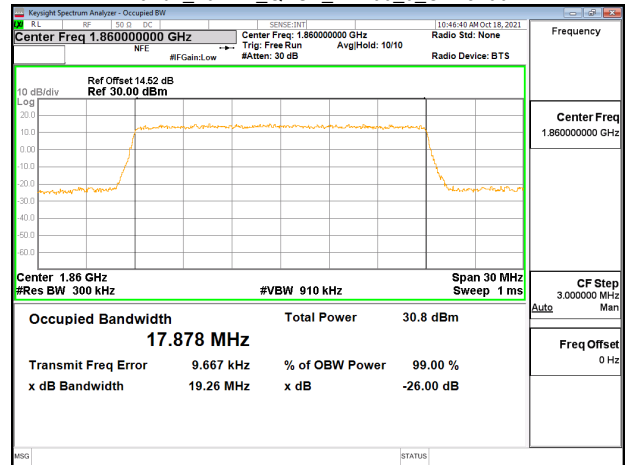
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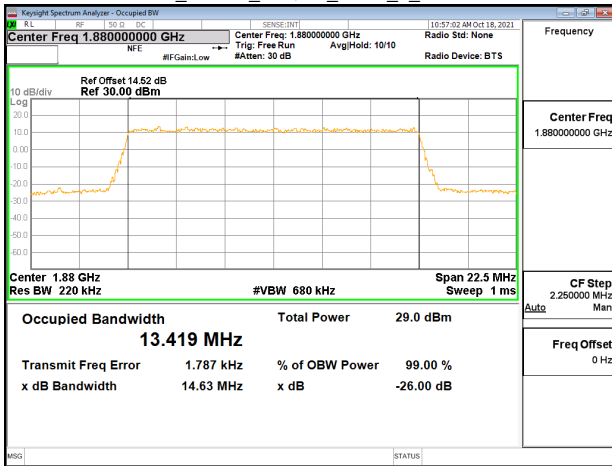
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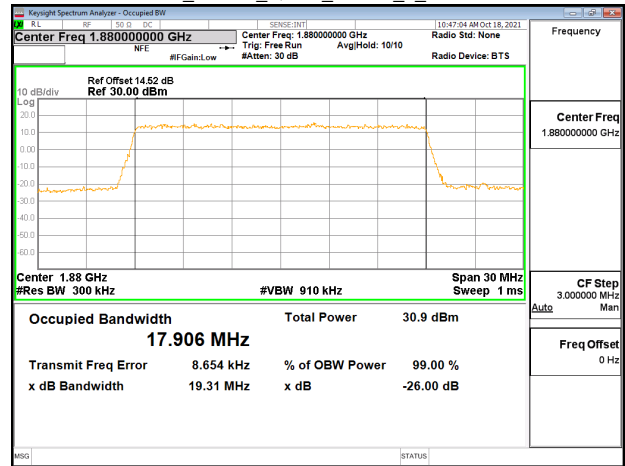
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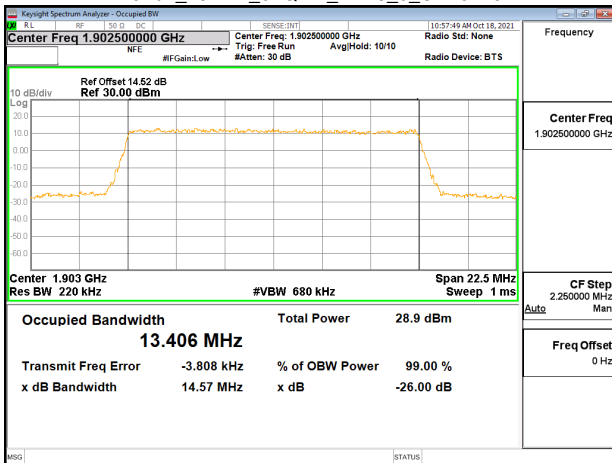
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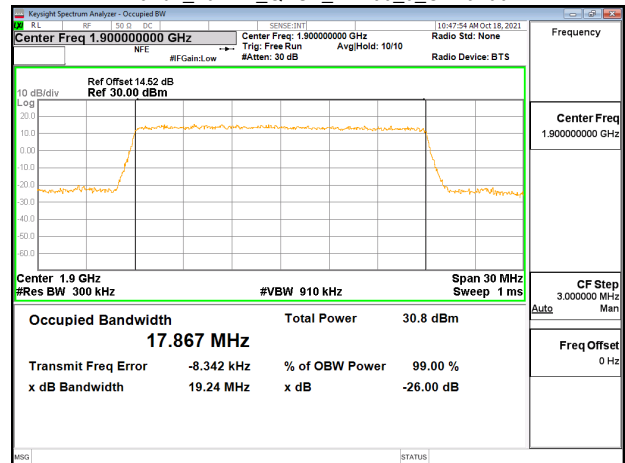
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Band2\_15MHz\_64QAM\_RB75\_0\_CH19125



Band2\_20MHz\_QPSK\_RB100\_0\_CH19100

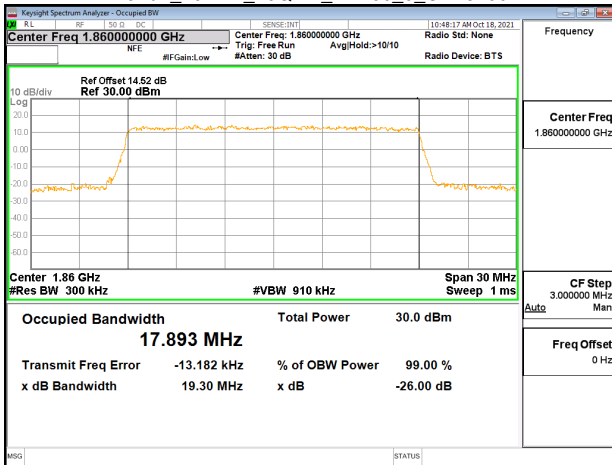


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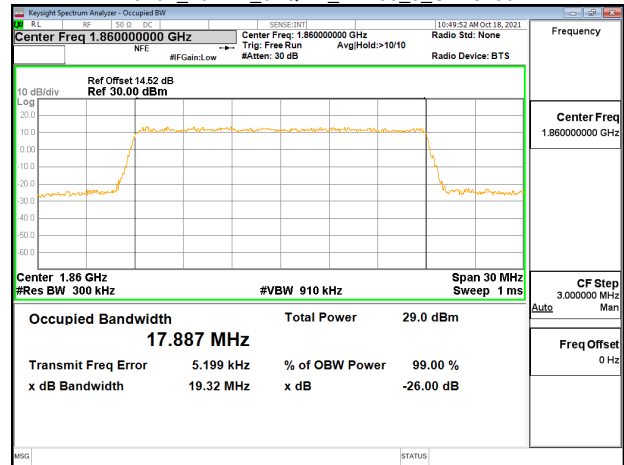
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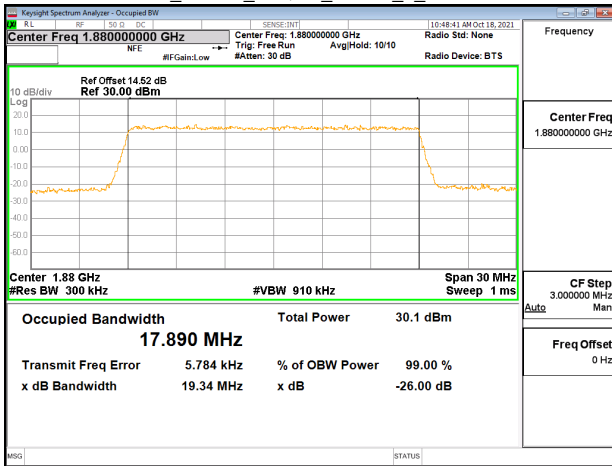
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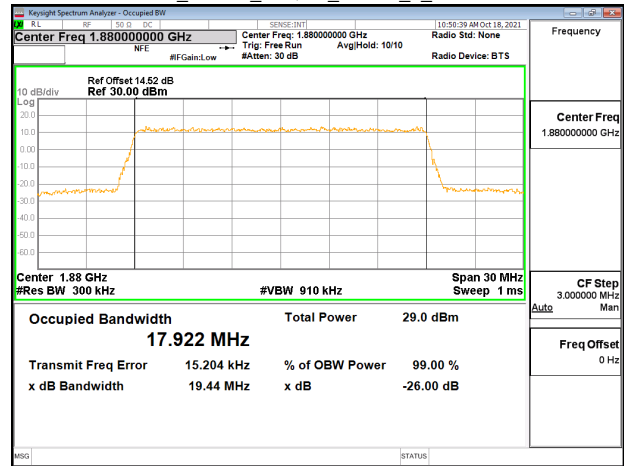
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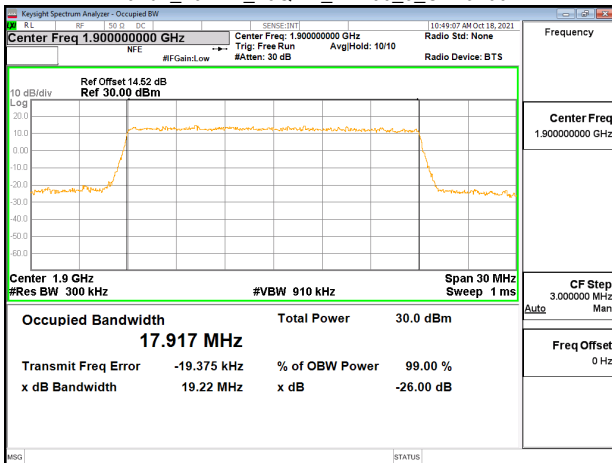
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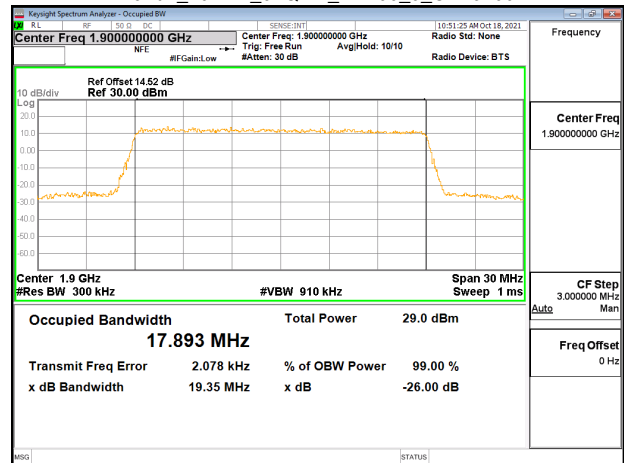
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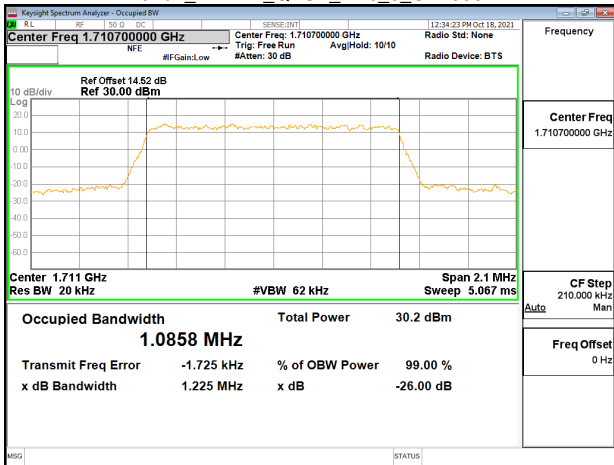


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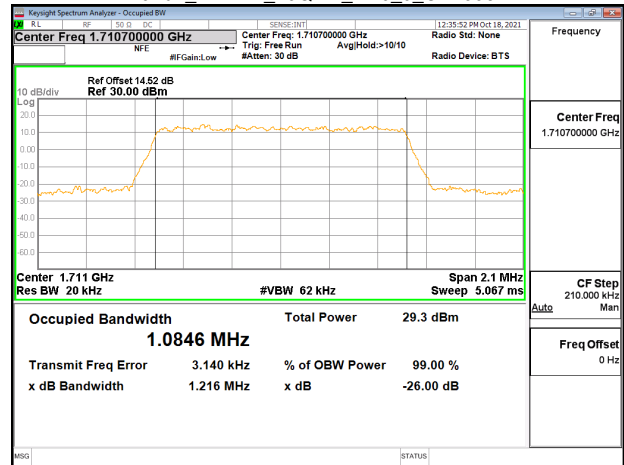
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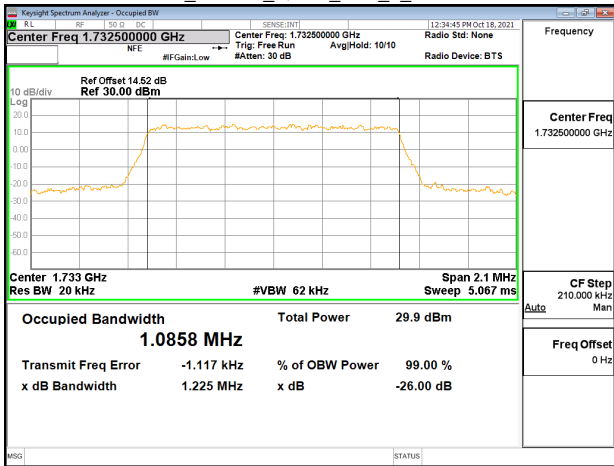
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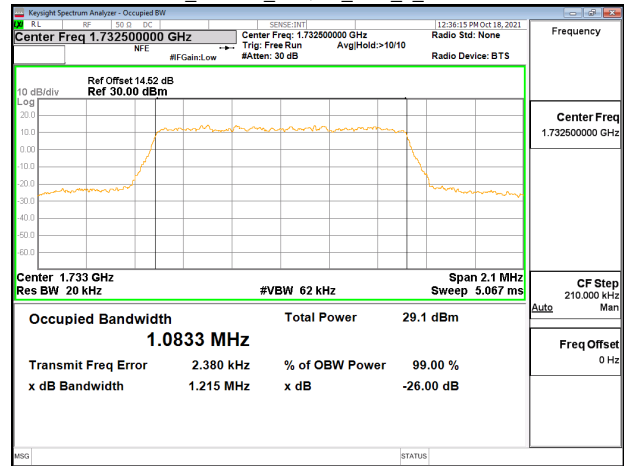
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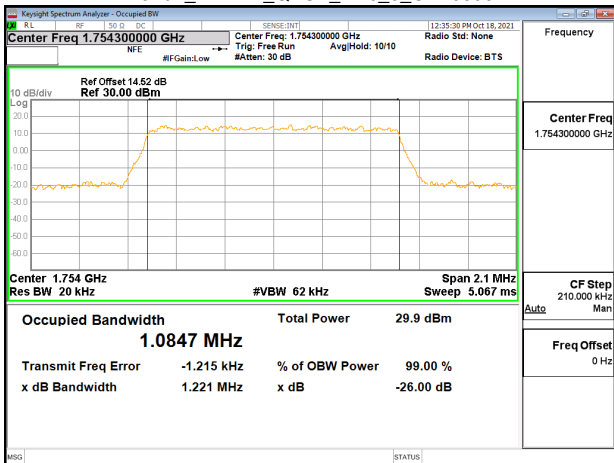
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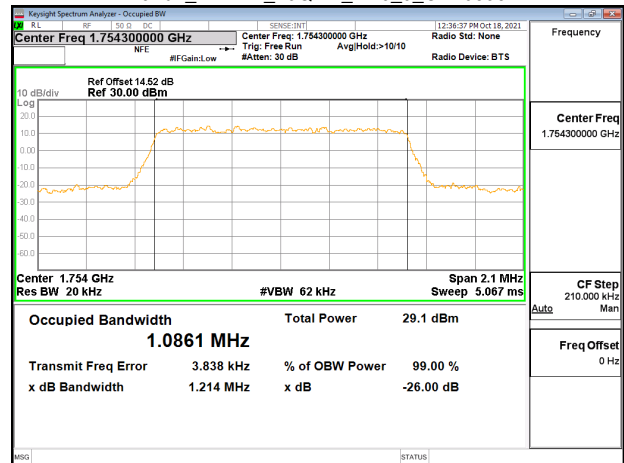
Band4\_1.4MHz\_16QAM\_RB6\_0\_CH20175



Band4\_1.4MHz\_QPSK\_RB6\_0\_CH20393



Band4\_1.4MHz\_16QAM\_RB6\_0\_CH20393

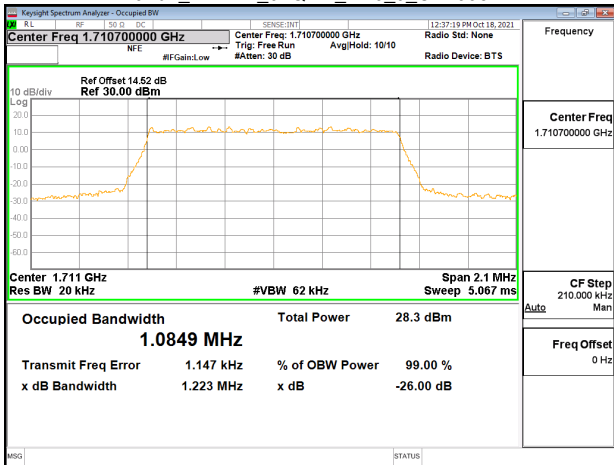


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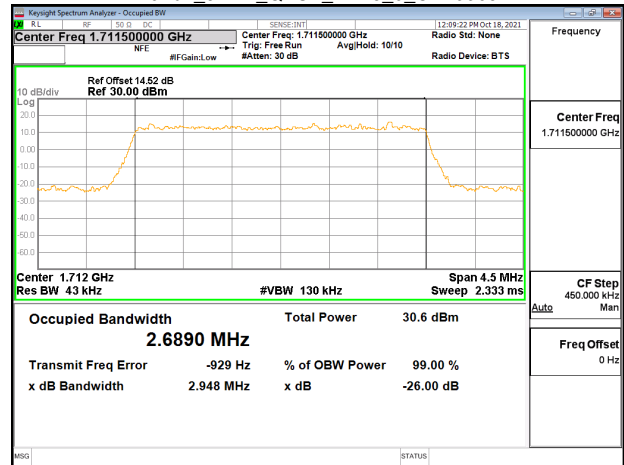
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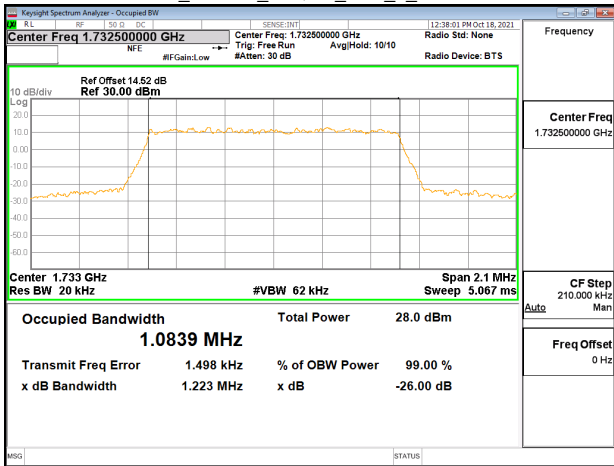
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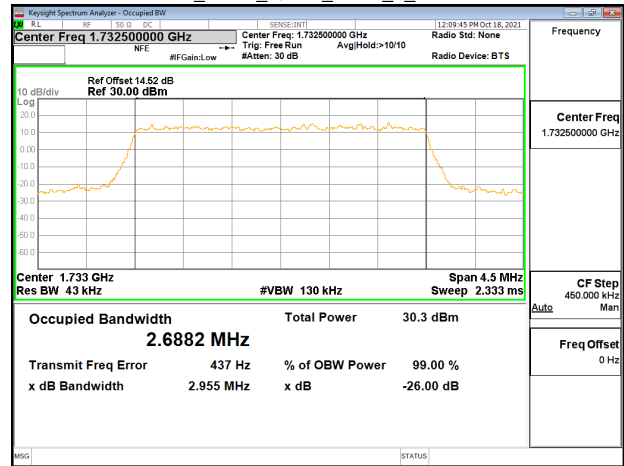
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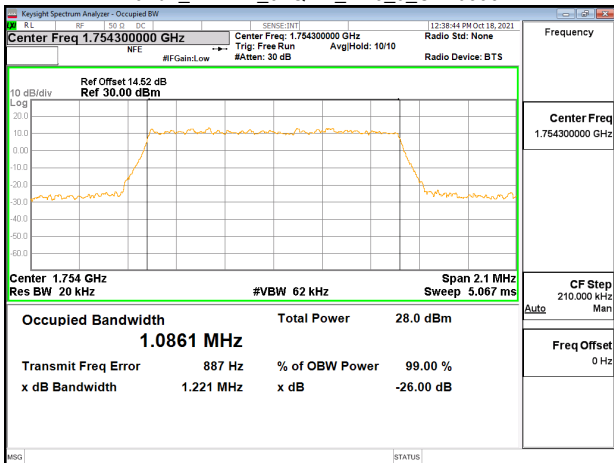
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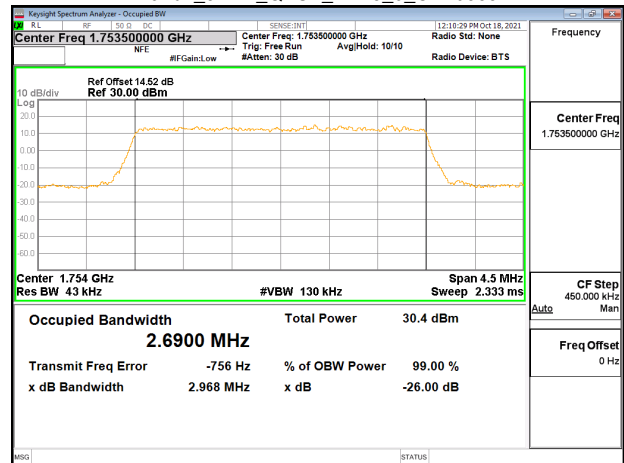
Band4\_3MHz\_QPSK\_RB15\_0\_CH20175



Band4\_1.4MHz\_64QAM\_RB6\_0\_CH20393



Band4\_3MHz\_QPSK\_RB15\_0\_CH20385

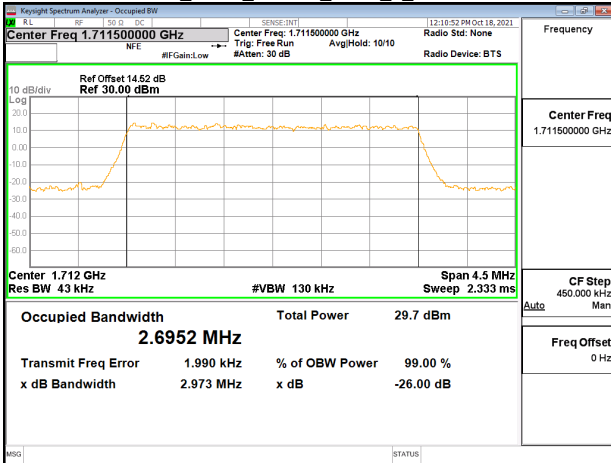


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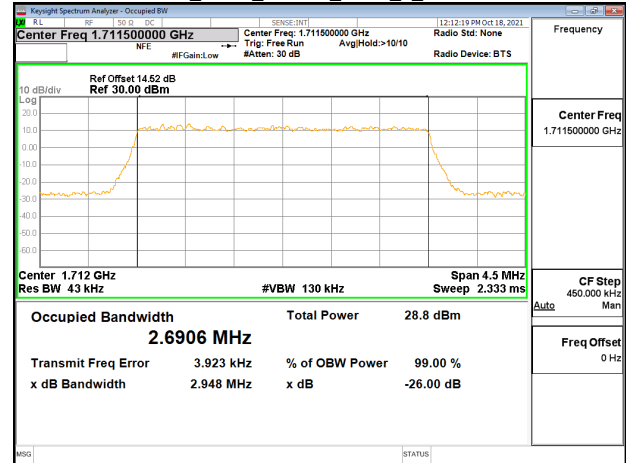
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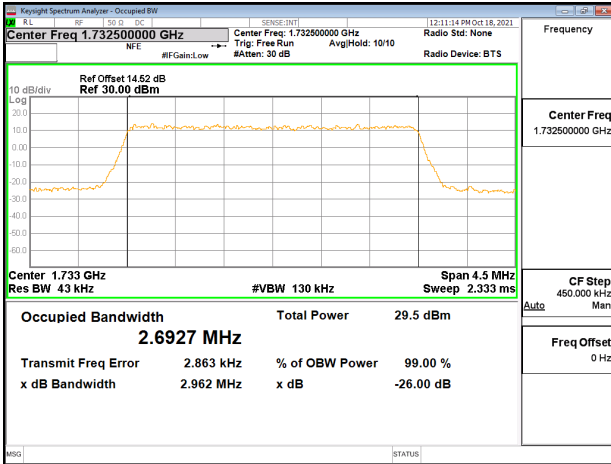
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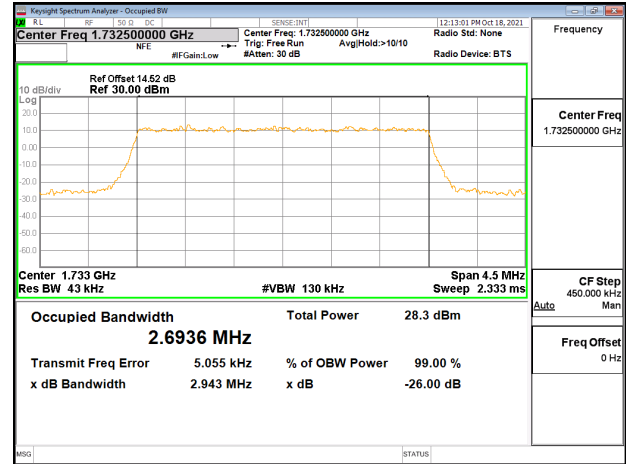
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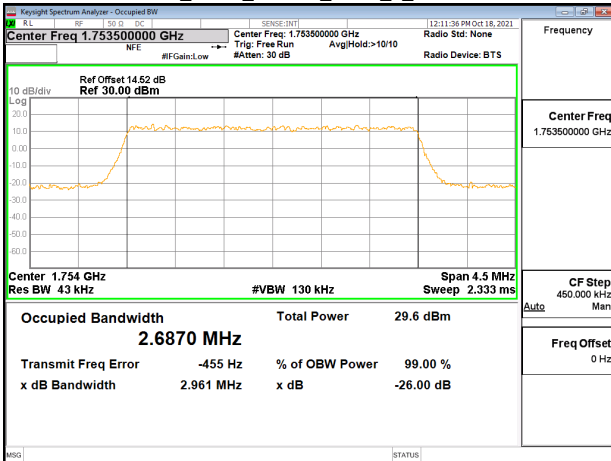
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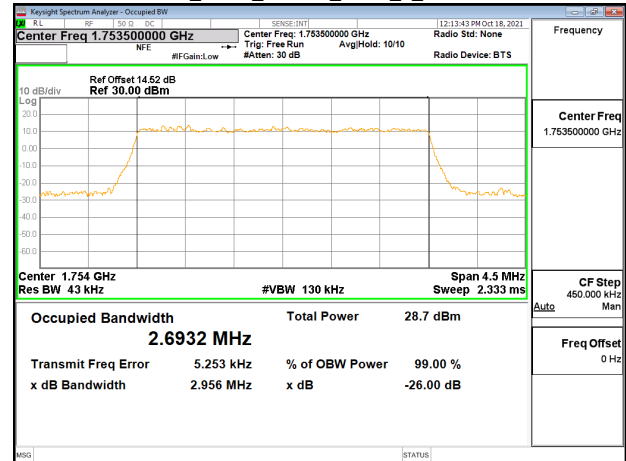
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Band4\_3MHz\_16QAM\_RB15\_0\_CH20385



Band4\_3MHz\_64QAM\_RB15\_0\_CH20385

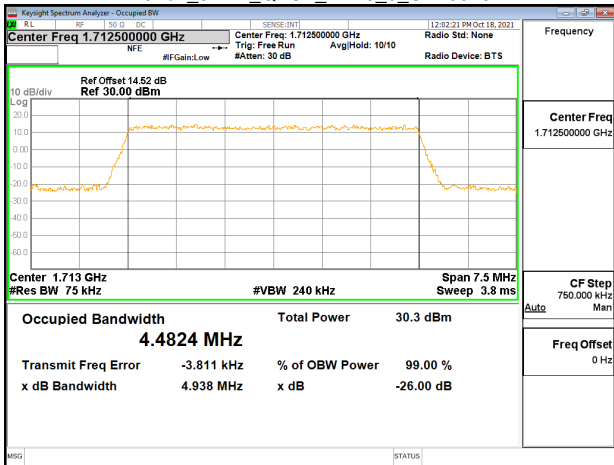


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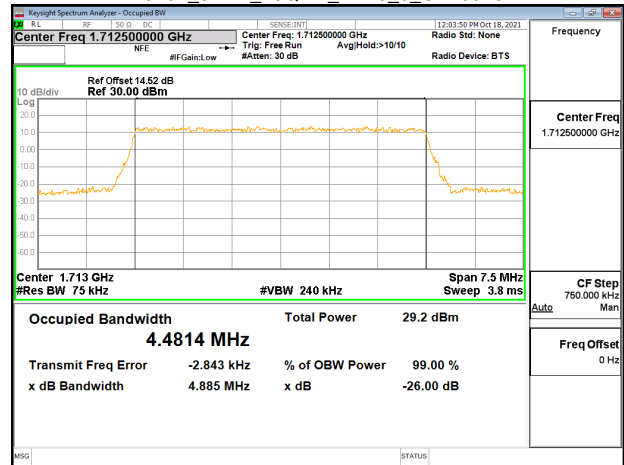
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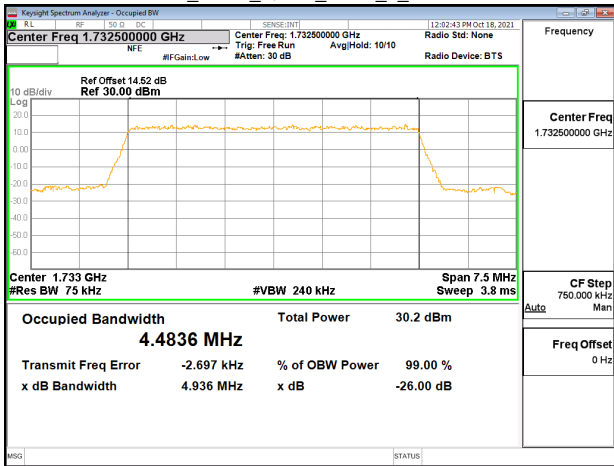
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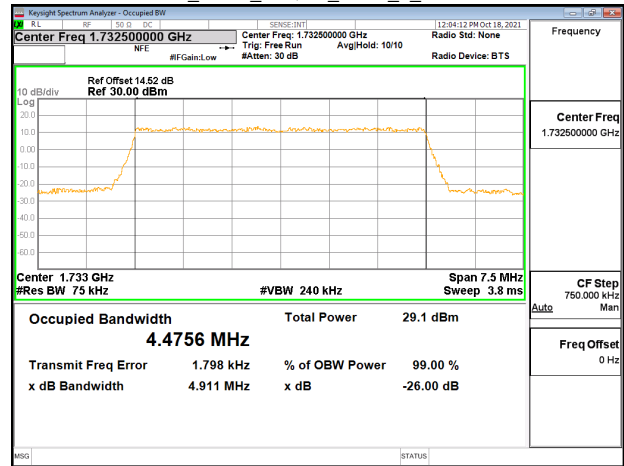
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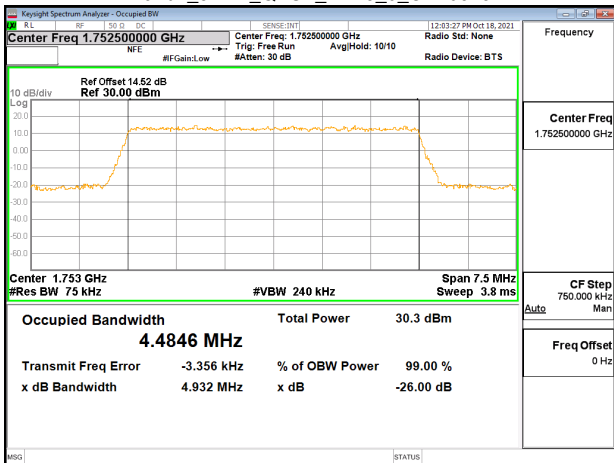
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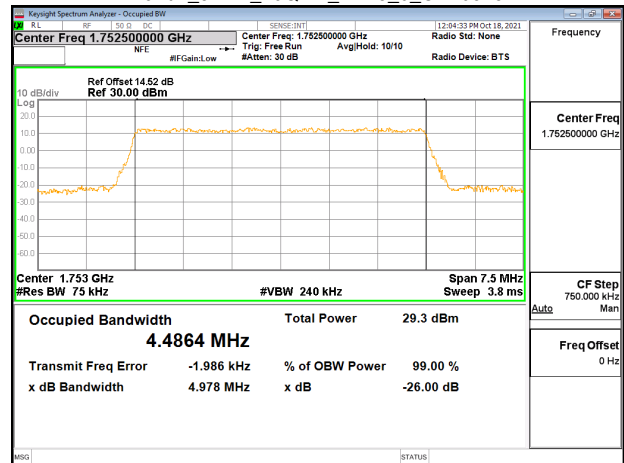
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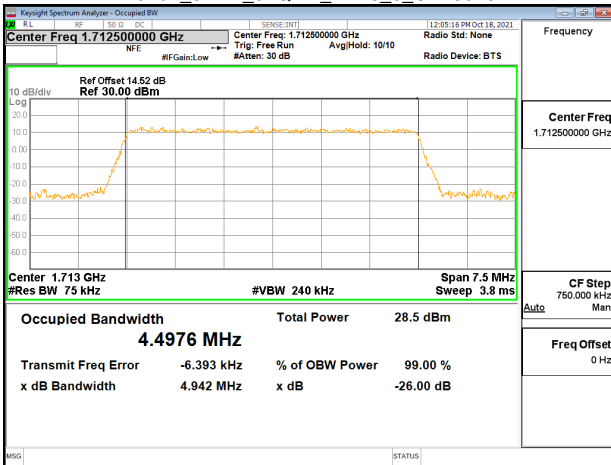


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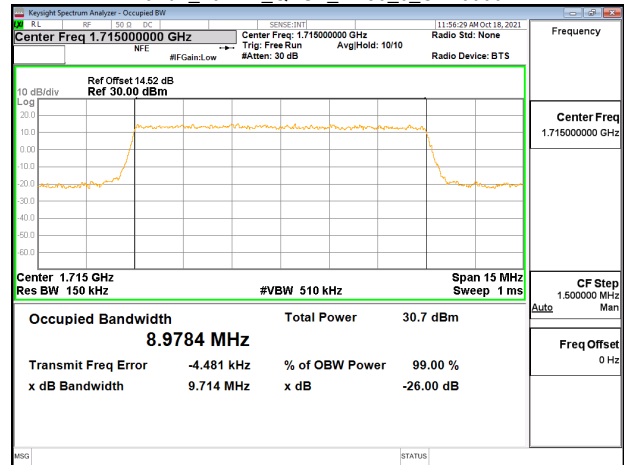
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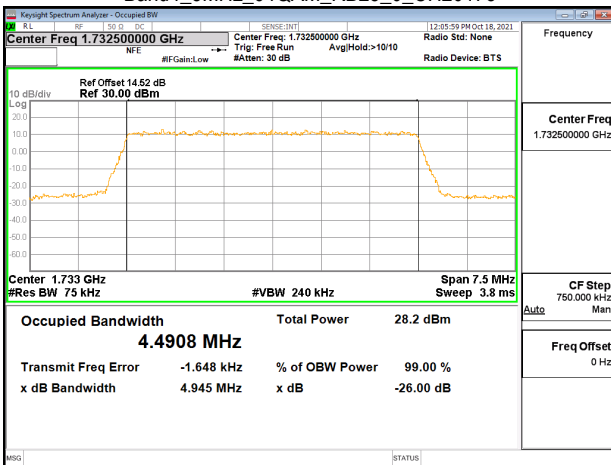
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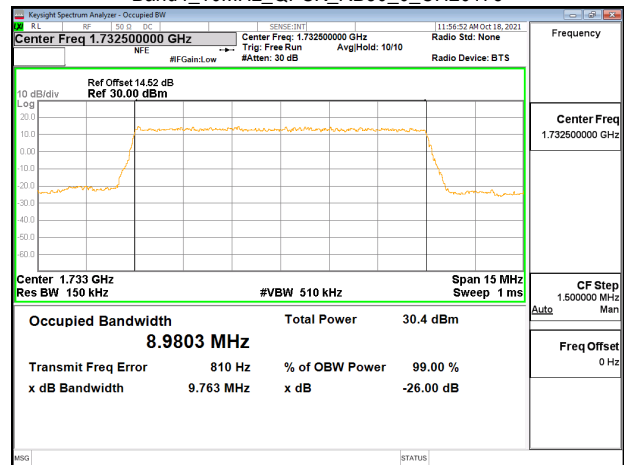
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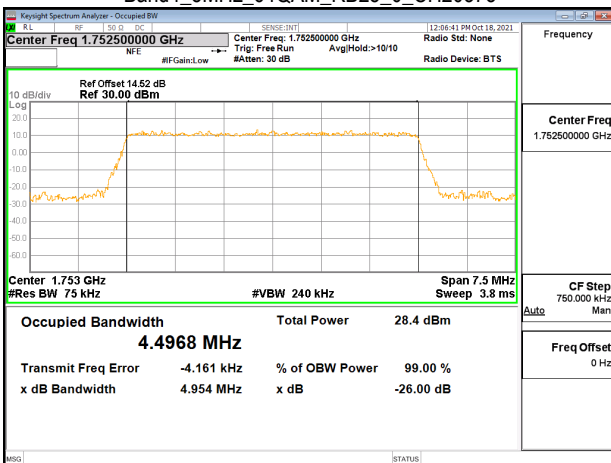
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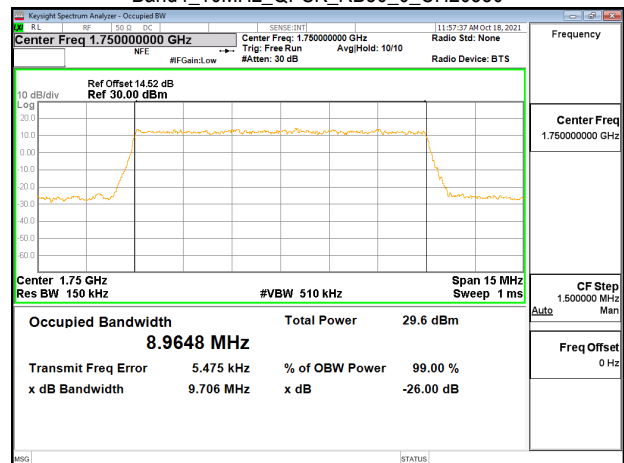
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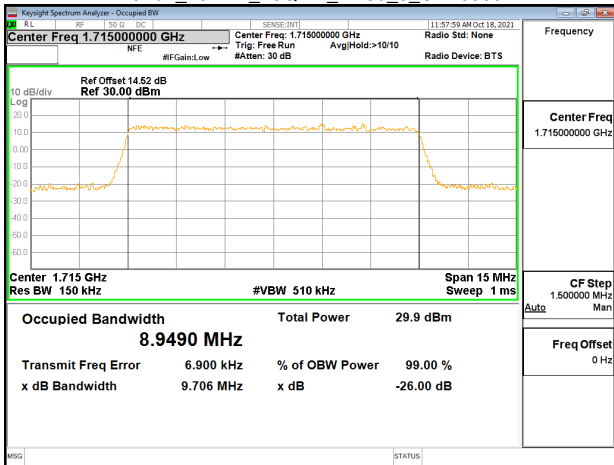
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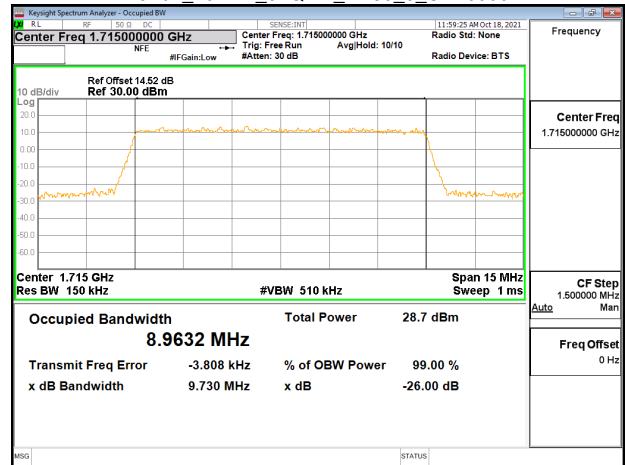
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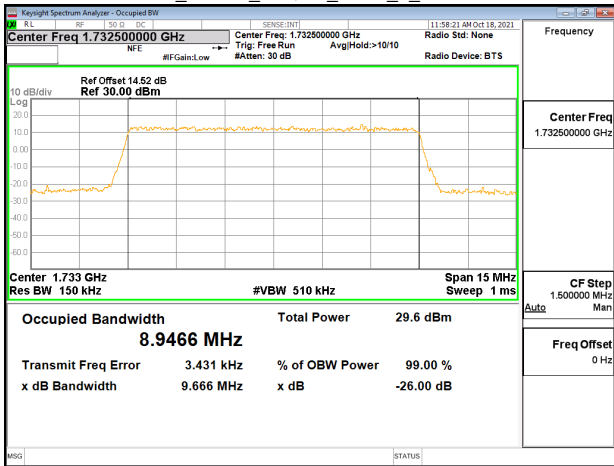
Band4\_10MHz\_16QAM\_RB50\_0\_CH20000



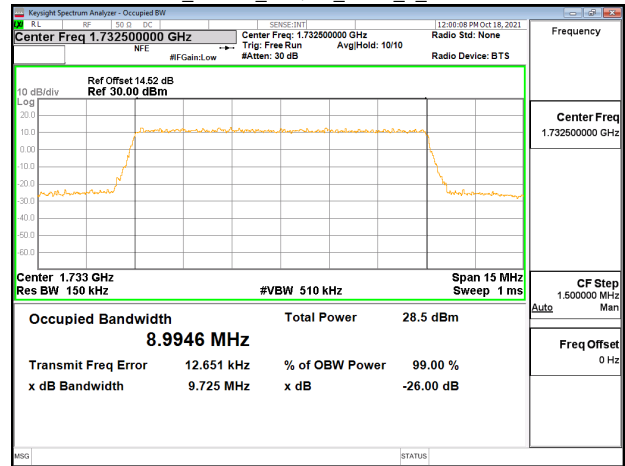
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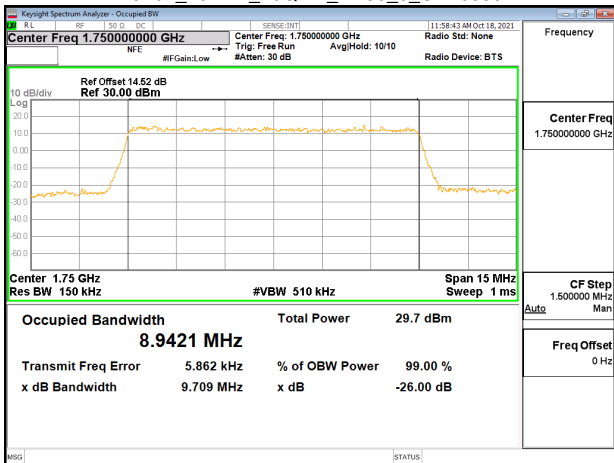
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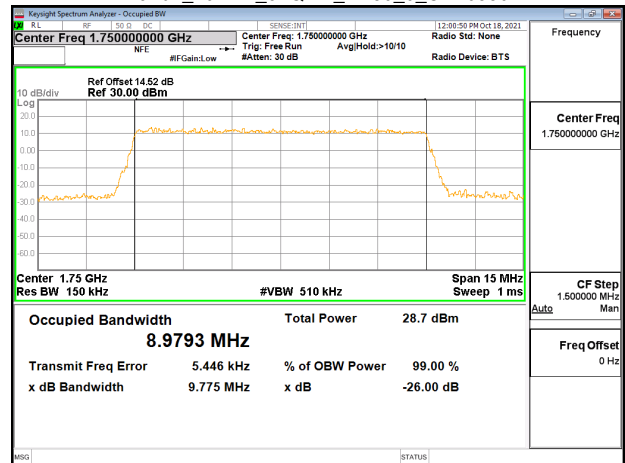
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Band4\_10MHz\_16QAM\_RB50\_0\_CH20350



Band4\_10MHz\_64QAM\_RB50\_0\_CH20350

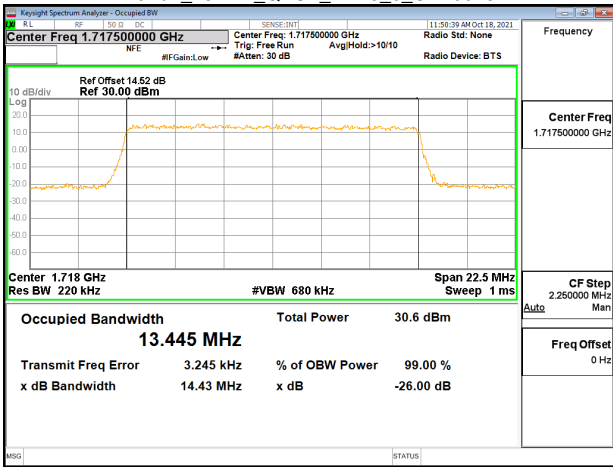


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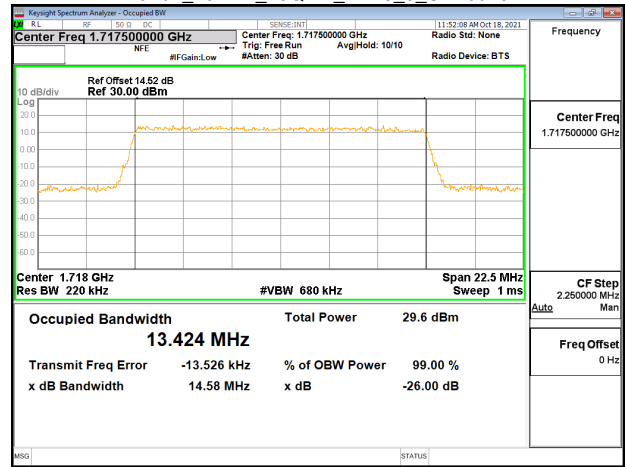
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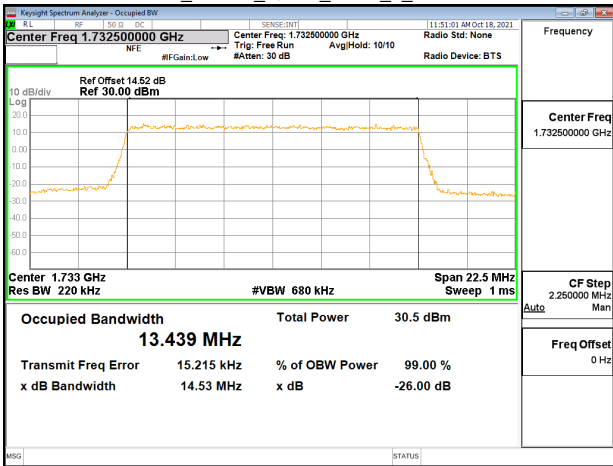
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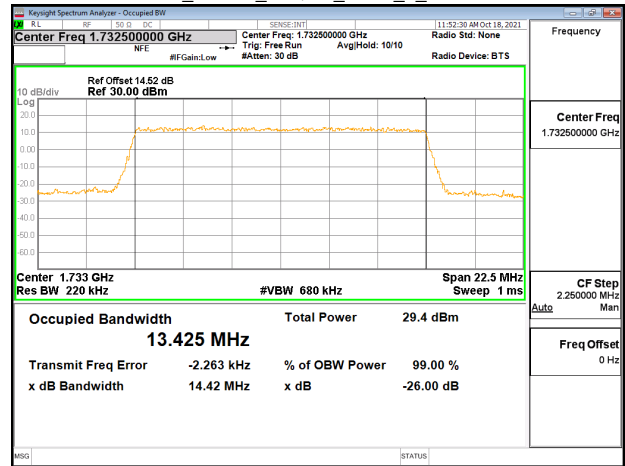
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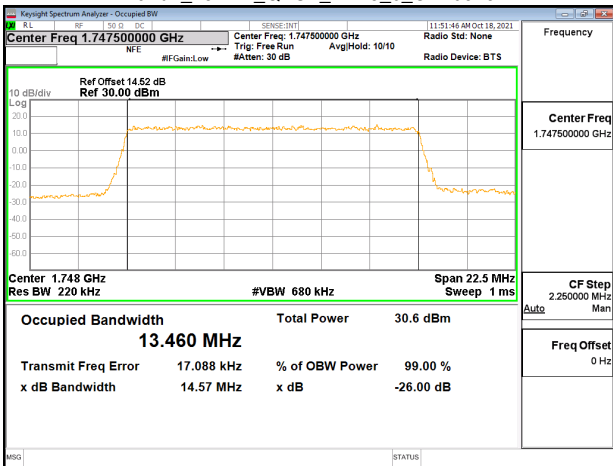
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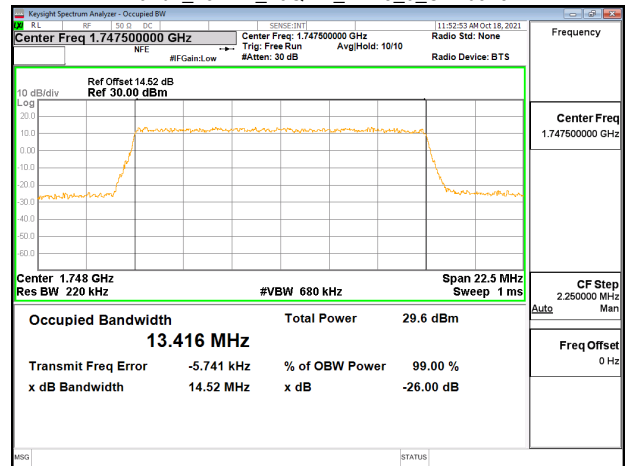
Band4\_15MHz\_16QAM\_RB75\_0\_CH20175



Band4\_15MHz\_QPSK\_RB75\_0\_CH20325



Band4\_15MHz\_16QAM\_RB75\_0\_CH20325



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