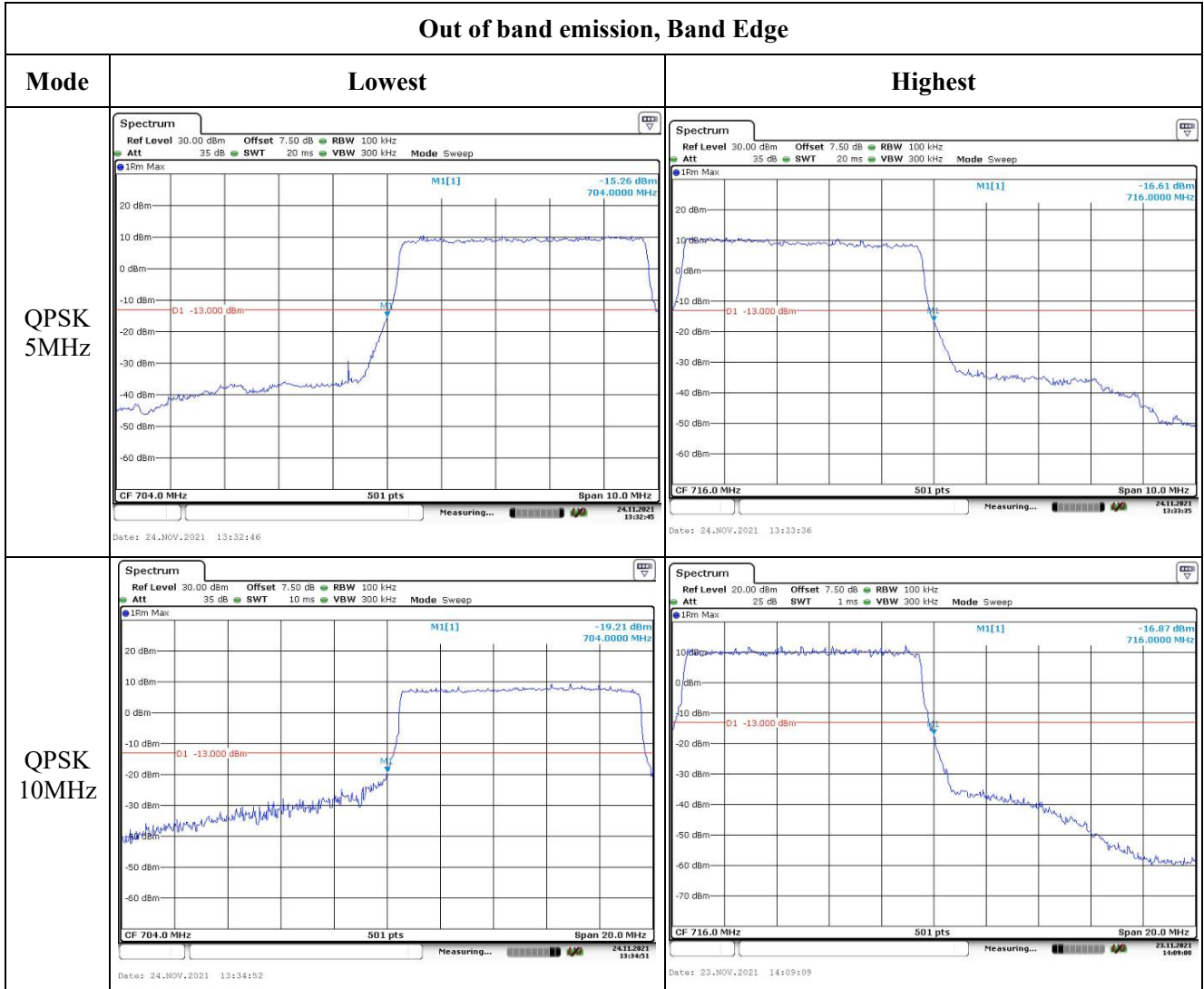
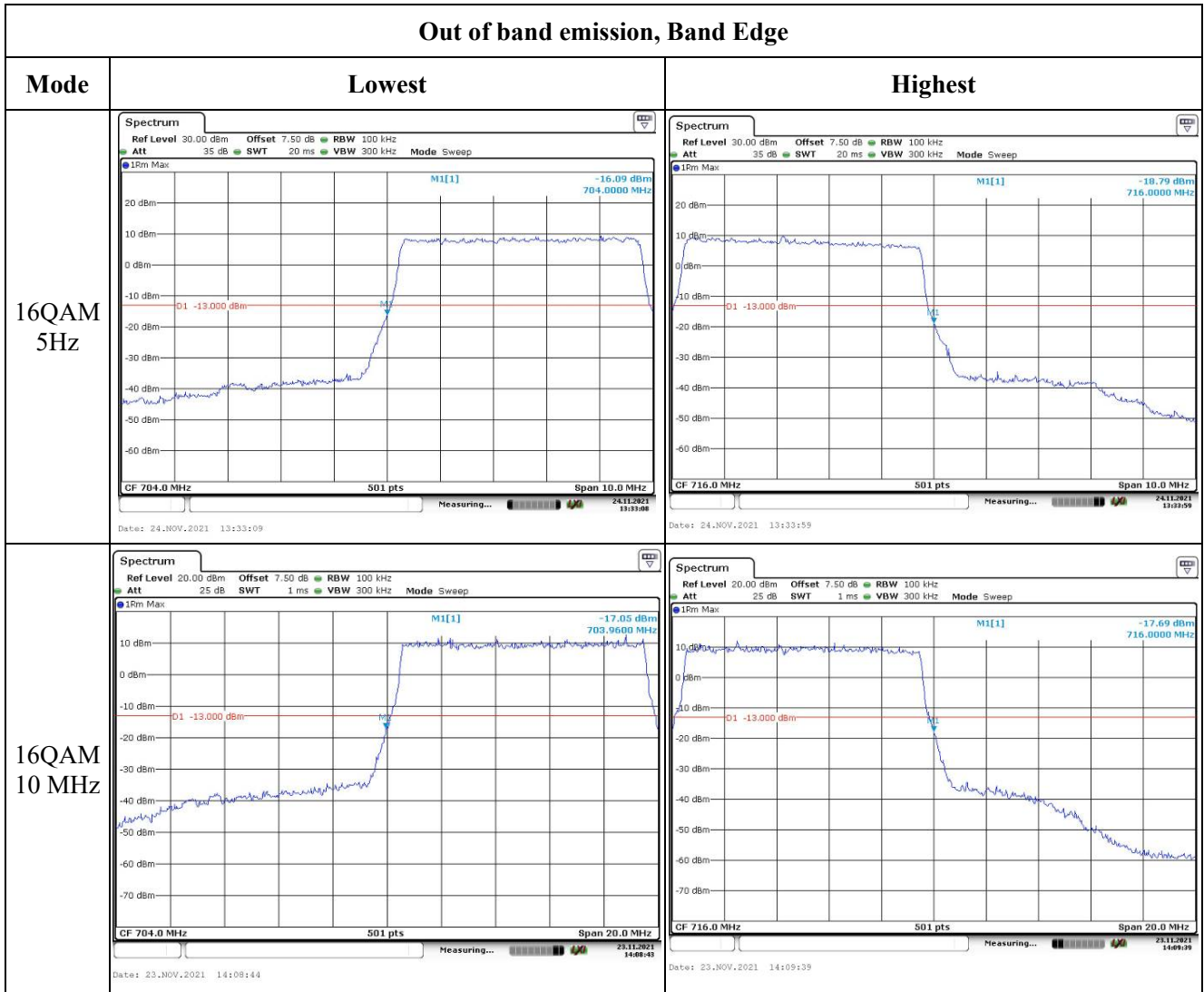


Out of band emission, Band Edge



Out of band emission, Band Edge



4.11 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	CR21110011-RF-S1	Test Date:	2021-11-23~2021-11-24
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Great Qiao, Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.4~23.4	Relative Humidity: (%)	33~34	ATM Pressure: (kPa)	101.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D09	N/A	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	Each Time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

EUT Information@ LTE Band 66▲:

Antenna Gain (dBi):	0.6	Cable Loss (dB):	0.4
Operation Voltage(V _{DC}):			
Lowest:	3.6	Normal:	3.85
		Highest:	4.35

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:**FCC§2.1046;§ 27.50(d)(4)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	18.69	18.76	18.83	19.2	30
	RB1#3	18.85	18.91	19.00		
	RB1#5	18.70	18.75	18.81		
	RB3#0	18.73	18.77	18.87		
	RB3#3	18.73	18.66	18.87		
	RB6#0	17.76	17.80	17.94		
1.4MHz 16QAM	RB1#0	17.65	17.79	17.79	18.21	30
	RB1#3	17.87	18.01	17.91		
	RB1#5	17.69	17.77	17.81		
	RB3#0	17.90	17.73	17.94		
	RB3#3	17.88	17.71	17.92		
	RB6#0	16.80	16.83	16.84		
3MHz QPSK	RB1#0	18.74	18.80	18.90	19.1	30
	RB1#8	18.71	18.80	18.87		
	RB1#14	18.72	18.75	18.87		
	RB6#0	17.72	17.73	17.83		
	RB6#9	17.73	17.77	17.85		
	RB15#0	17.73	17.72	17.87		
3MHz 16QAM	RB1#0	18.27	17.89	17.84	19.11	30
	RB1#8	18.23	17.83	17.87		
	RB1#14	18.21	17.82	17.83		
	RB6#0	18.84	18.74	18.81		
	RB6#9	18.78	18.77	18.81		
	RB15#0	18.79	18.69	18.91		
5MHz QPSK	RB1#0	18.67	18.68	18.72	19.09	30
	RB1#13	18.77	18.81	18.89		
	RB1#24	18.64	18.65	18.73		
	RB15#0	17.70	17.66	17.86		
	RB15#10	17.71	17.74	17.84		
	RB25#0	17.67	17.68	17.81		
5MHz 16QAM	RB1#0	17.55	17.90	17.77	19.09	30
	RB1#13	17.64	18.05	17.94		
	RB1#24	17.53	17.89	17.82		
	RB15#0	18.73	18.66	18.89		
	RB15#10	18.76	18.71	18.87		
	RB25#0	18.72	18.67	18.86		
10MHz QPSK	RB1#0	18.70	18.70	18.79	19.17	30
	RB1#25	18.84	18.87	18.97		

	RB1#49	18.70	18.74	18.83		
	RB25#0	17.66	17.63	17.90		
	RB25#25	17.62	17.78	17.78		
	RB50#0	17.65	17.71	17.80		
10MHz 16QAM	RB1#0	18.23	17.77	17.74	19.13	30
	RB1#25	18.42	18.00	17.96		
	RB1#49	18.23	17.80	17.80		
	RB25#0	18.68	18.67	18.93		
	RB25#25	18.69	18.78	18.90		
	RB50#0	18.67	18.72	18.83		
15MHz QPSK	RB1#0	18.62	18.64	18.70	19.02	30
	RB1#38	18.71	18.76	18.82		
	RB1#74	18.63	18.66	18.77		
	RB36#0	17.72	17.67	17.84		
	RB36#39	17.69	17.77	17.80		
	RB75#0	17.67	17.74	17.86		
15MHz 16QAM	RB1#0	18.15	17.73	18.04	19.07	30
	RB1#38	18.26	17.89	18.19		
	RB1#74	18.21	17.74	18.13		
	RB36#0	18.71	18.74	18.87		
	RB36#39	18.72	18.82	18.84		
	RB75#0	18.65	18.77	18.84		
20MHz QPSK	RB1#0	18.51	18.52	18.48	19.13	30
	RB1#50	18.91	18.93	18.92		
	RB1#99	18.51	18.58	18.59		
	RB50#0	17.71	17.64	17.88		
	RB50#50	17.55	17.78	17.69		
	RB100#0	17.67	17.72	17.77		
20MHz 16QAM	RB1#0	17.75	17.69	17.97	19.06	30
	RB1#50	18.20	18.10	18.43		
	RB1#99	17.79	17.69	18.09		
	RB50#0	18.71	18.66	18.86		
	RB50#50	18.54	18.78	18.71		
	RB100#0	18.68	18.72	18.84		

Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBi)

Result:

Pass

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.32	5.45	3.07	13
	RB100#0	4.67	5.13	4.61	13
20MHz 16QAM	RB1#0	4.78	6.9	4.2	13
	RB100#0	5.57	6.06	5.57	13
Result:					Pass

FCC §2.1049, §27.53:Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.102	1.108	1.102	1.338	1.338	1.302
1.4MHz 16QAM	1.102	1.102	1.096	1.332	1.32	1.29
3MHz QPSK	2.683	2.695	2.683	2.892	2.88	2.88
3MHz 16QAM	2.683	2.683	2.683	2.904	2.88	2.88
5MHz QPSK	4.531	4.511	4.511	5.18	5.18	5.22
5MHz 16QAM	4.531	4.531	4.551	5.14	5.22	5.22
10MHz QPSK	8.981	8.981	8.981	10.12	9.92	10.04
10MHz 16QAM	8.942	8.981	8.981	9.76	9.92	10
15MHz QPSK	13.473	13.533	13.533	15.12	15.3	15.42
15MHz 16QAM	13.473	13.593	13.593	15.06	15.18	16.86
20MHz QPSK	17.884	17.964	18.044	19.52	19.76	20
20MHz 16QAM	17.964	17.964	18.044	19.68	19.92	19.76

Note: The test plots please refer to the Plots of Occupied Bandwidth

FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 27.53:Out of band emission, Band Edge

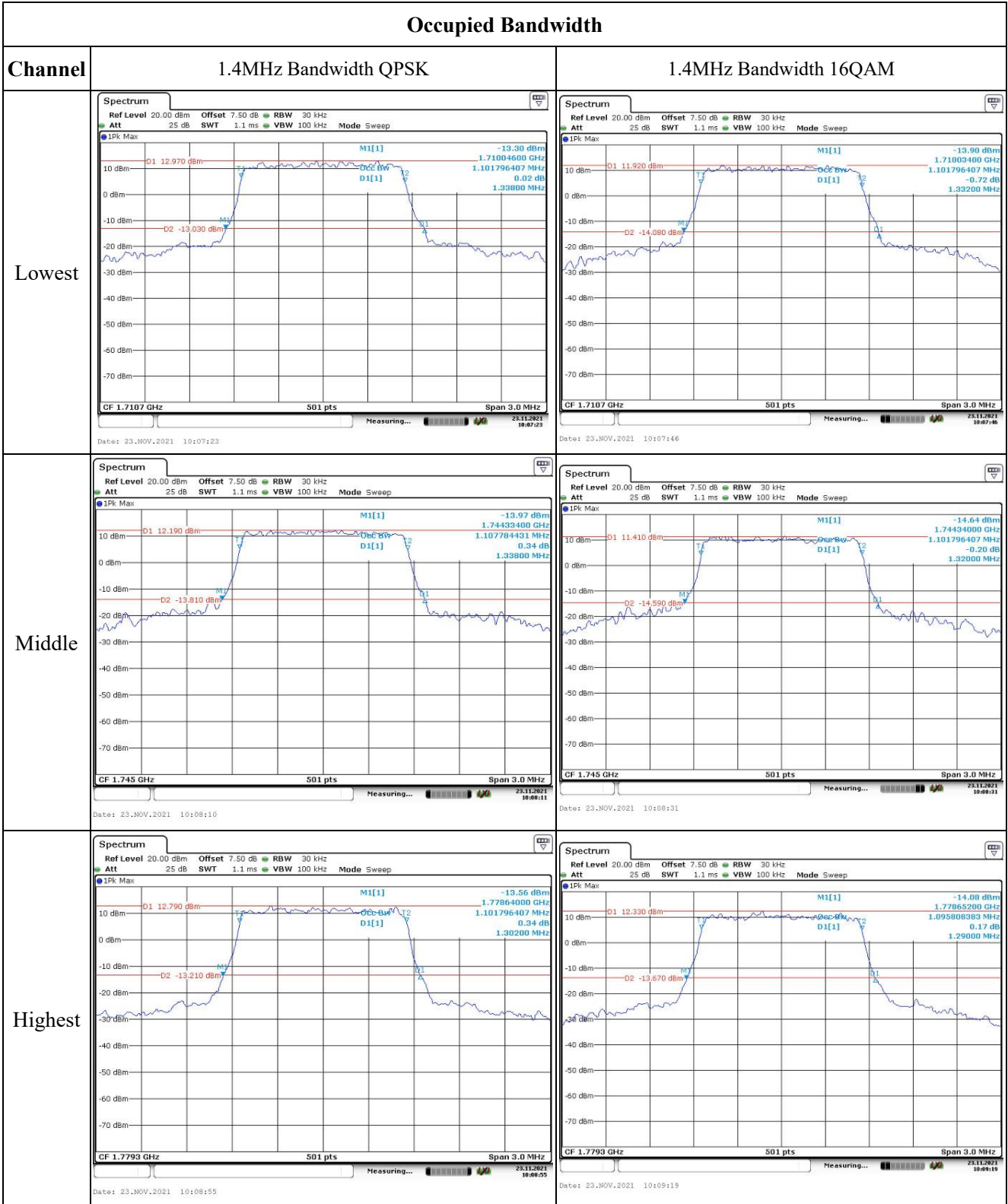
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	1710.542	1710.00	1779.458	1780
	-20	3.85	1710.544	1710.00	1779.456	1780
	-10	3.85	1710.544	1710.00	1779.457	1780
	0	3.85	1710.542	1710.00	1779.456	1780
	10	3.85	1710.543	1710.00	1779.458	1780
	20	3.85	1710.543	1710.00	1779.457	1780
	30	3.85	1710.544	1710.00	1779.456	1780
	40	3.85	1710.545	1710.00	1779.456	1780
	50	3.85	1710.543	1710.00	1779.457	1780
Frequency Stability vs. Voltage	20	3.6	1710.542	1710.00	1779.458	1780
	20	4.35	1710.542	1710.00	1779.458	1780
					Result:	Pass

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	1710.513	1710.00	1779.458	1780
	-20	3.85	1710.513	1710.00	1779.457	1780
	-10	3.85	1710.512	1710.00	1779.457	1780
	0	3.85	1710.516	1710.00	1779.458	1780
	10	3.85	1710.517	1710.00	1779.456	1780
	20	3.85	1710.514	1710.00	1779.457	1780
	30	3.85	1710.513	1710.00	1779.457	1780
	40	3.85	1710.513	1710.00	1779.456	1780
	50	3.85	1710.513	1710.00	1779.456	1780
Frequency Stability vs. Voltage	20	3.6	1710.513	1710.00	1779.456	1780
	20	4.35	1710.515	1710.00	1779.455	1780
					Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -15.57 dBm 1.7100500 GHz 2.682634731 MHz -0.33 dB 2.8920 MHz CF 1.7115 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:09:42</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -17.61 dBm 1.7100500 GHz 2.682634731 MHz -0.41 dB 2.9040 MHz CF 1.7115 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:10:02</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.56 dBm 1.7435600 GHz 2.694610770 MHz 0.86 dB 2.8800 MHz CF 1.745 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:10:27</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.25 dBm 1.7435600 GHz 2.694610770 MHz -1.53 dB 2.8800 MHz CF 1.745 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:10:44</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.69 dBm 1.7770600 GHz 2.682634731 MHz 0.40 dB 2.8800 MHz CF 1.7785 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:11:08</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.90 dBm 1.7770600 GHz 2.682634731 MHz -1.14 dB 2.8800 MHz CF 1.7785 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 10:11:32</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 12.460 dBm M1[1] -13.49 dBm 1.7099200 GHz D2 -13.542 dBm D1[1] 4.530938124 MHz -0.84 dB 5.1800 MHz CF 1.7125 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:11:55</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 11.890 dBm M1[1] -14.32 dBm 1.7099200 GHz D2 -14.110 dBm D1[1] 4.530938124 MHz 0.56 dB 5.1400 MHz CF 1.7125 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:12:19</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 12.030 dBm M1[1] -14.40 dBm 1.7424200 GHz D2 -13.970 dBm D1[1] 4.510978004 MHz 0.32 dB 5.1800 MHz CF 1.745 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:12:46</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 10.660 dBm M1[1] -15.51 dBm 1.7424000 GHz D2 -15.340 dBm D1[1] 4.530938124 MHz 0.12 dB 5.2200 MHz CF 1.745 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:13:10</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 11.890 dBm M1[1] -14.03 dBm 1.7749000 GHz D2 -14.110 dBm D1[1] 4.510978004 MHz -0.04 dB 5.2200 MHz CF 1.7775 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:13:34</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max D1 10.640 dBm M1[1] -15.32 dBm 1.7748000 GHz D2 -15.360 dBm D1[1] 4.550898204 MHz 0.85 dB 5.2200 MHz CF 1.7775 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 10:14:07</p>

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -12.38 dBm 1.7099400 GHz D1[1] 13.473053892 MHz D2 -12.690 dBm CF 1.7175 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:17:49</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -13.35 dBm 1.7100000 GHz D1[1] 13.473053892 MHz D2 -13.760 dBm CF 1.7175 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:18:16</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -12.88 dBm 1.7374400 GHz D1[1] 13.532934132 MHz D2 -13.430 dBm CF 1.745 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:18:44</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -13.57 dBm 1.7374400 GHz D1[1] 13.592814371 MHz D2 -13.980 dBm CF 1.745 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:19:11</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -13.58 dBm 1.7647000 GHz D1[1] 13.592814371 MHz D2 -13.640 dBm CF 1.7725 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:19:35</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -14.12 dBm 1.7638600 GHz D1[1] 13.592814371 MHz D2 -14.760 dBm CF 1.7725 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 10:19:59</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -12.05 dBm 1.7102400 GHz D1[1] 17.084201337 MHz -2.17 dB D2 -13.830 dBm 19.5200 MHz CF 1.72 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:20:32</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -15.05 dBm 1.7102400 GHz D1[1] 17.964071856 MHz -0.22 dB D2 -14.570 dBm 19.6800 MHz CF 1.72 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:20:56</p>
Middle	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -14.13 dBm 1.7352400 GHz D1[1] 17.964071856 MHz 0.75 dB D2 -13.620 dBm 19.7600 MHz CF 1.745 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:21:23</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -12.96 dBm 1.7351600 GHz D1[1] 17.964071856 MHz -2.26 dB D2 -14.740 dBm 19.9200 MHz CF 1.745 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:21:47</p>
Highest	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -15.16 dBm 1.7599200 GHz D1[1] 18.043912176 MHz 0.42 dB D2 -14.560 dBm 20.0000 MHz CF 1.77 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:22:12</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Pk Max M1[1] -14.79 dBm 1.7601600 GHz D1[1] 18.043912176 MHz -0.29 dB D2 -14.820 dBm 19.7600 MHz CF 1.77 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 10:22:35</p>

Spurious Emissions at Antenna Terminal

Channel	1.4MHz Bandwidth QPSK	
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.80 dBm 811.20 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:25:47</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.85 dBm 6.9350 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:26:09</p>
Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.20 dBm 861.60 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:26:38</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -39.95 dBm 5.7970 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:26:57</p>
Highest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.90 dBm 981.60 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:27:23</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.66 dBm 6.7080 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:27:48</p>

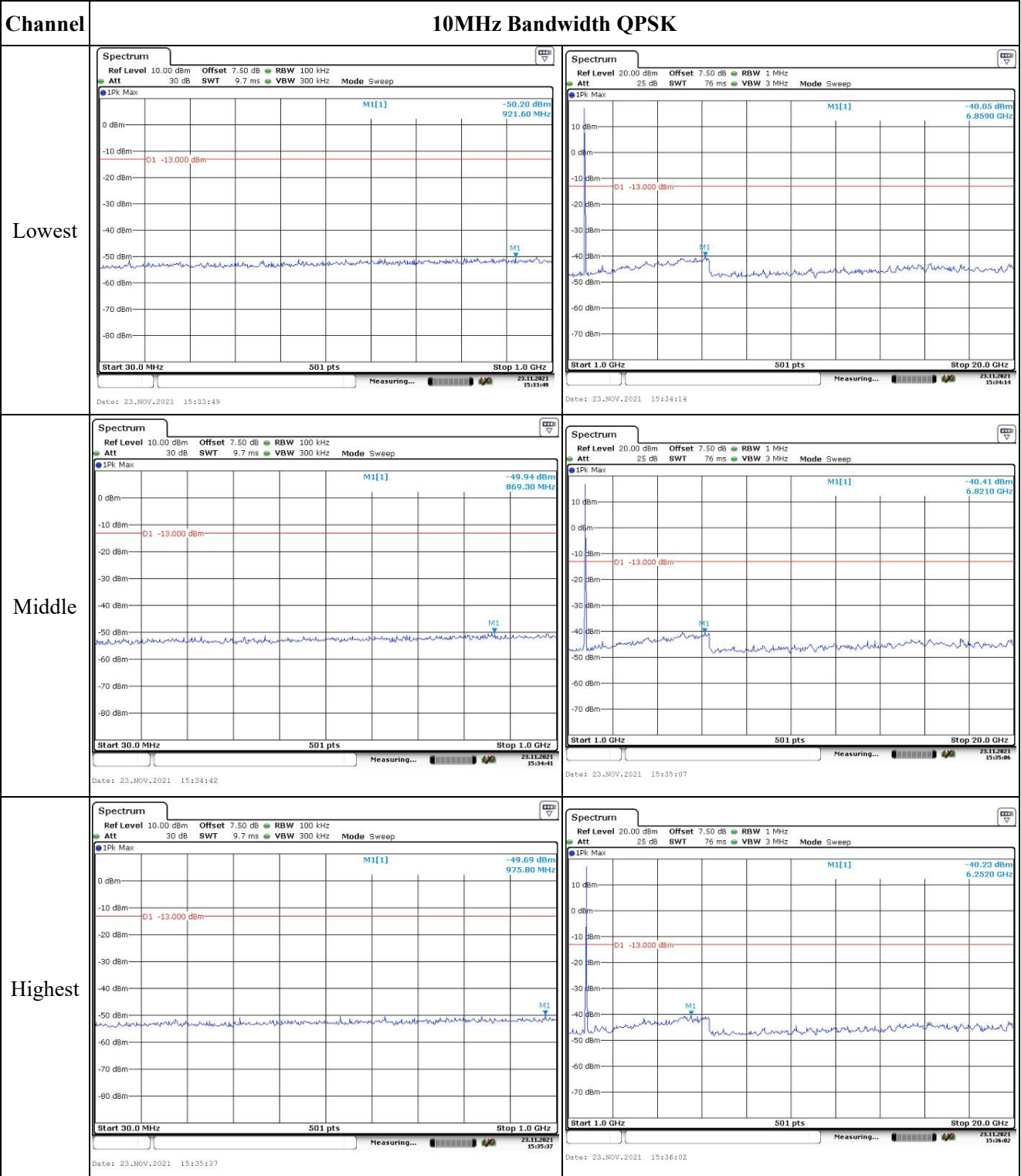
Spurious Emissions at Antenna Terminal

Channel	3MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.47 dBm 960.30 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:28:23</p>	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.48 dBm 6.7460 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:28:40</p>
Middle	<p>Spectrum Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.99 dBm 830.60 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:29:24</p>	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.66 dBm 5.7970 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:29:46</p>
Highest	<p>Spectrum Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.37 dBm 871.20 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:30:09</p>	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -39.77 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:30:31</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.26 dBm 759.00 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:31:06</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.04 dBm 5.8350 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:31:28</p>
Middle	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.50 dBm 898.40 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:31:51</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.10 dBm 6.9350 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:32:13</p>
Highest	<p>Ref Level 10.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.70 dBm 985.50 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 15:32:48</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.49 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 15:33:20</p>

Spurious Emissions at Antenna Terminal

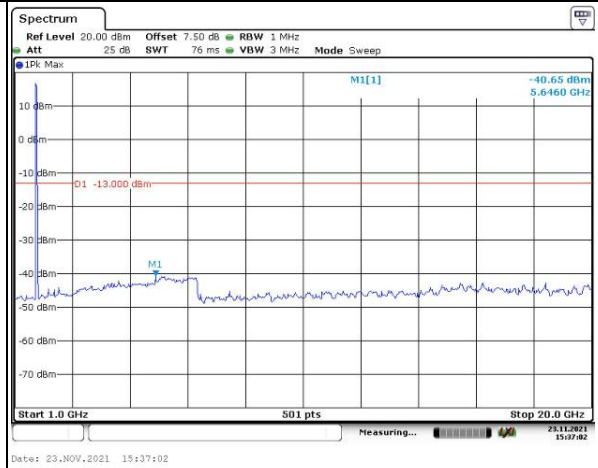
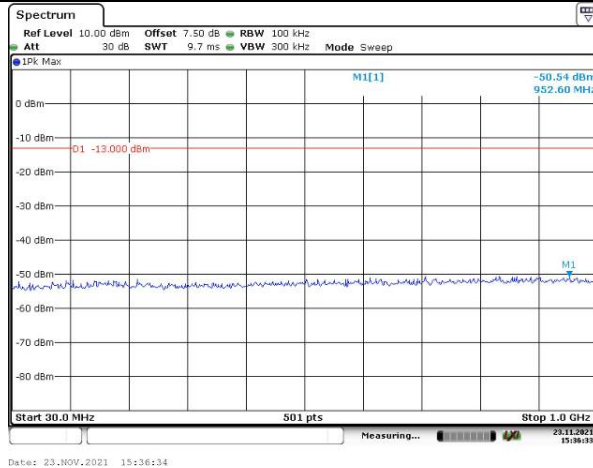


Spurious Emissions at Antenna Terminal

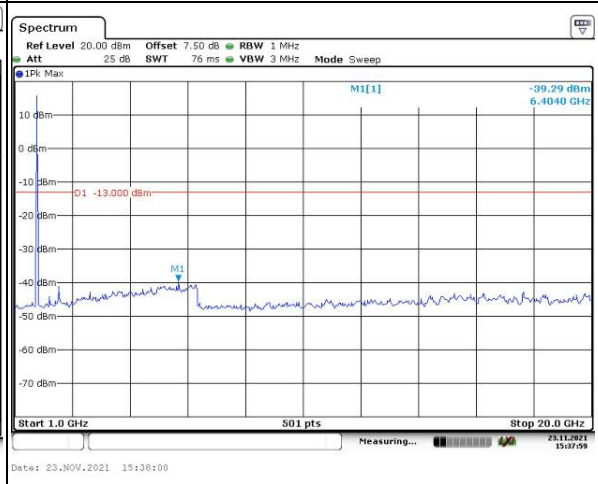
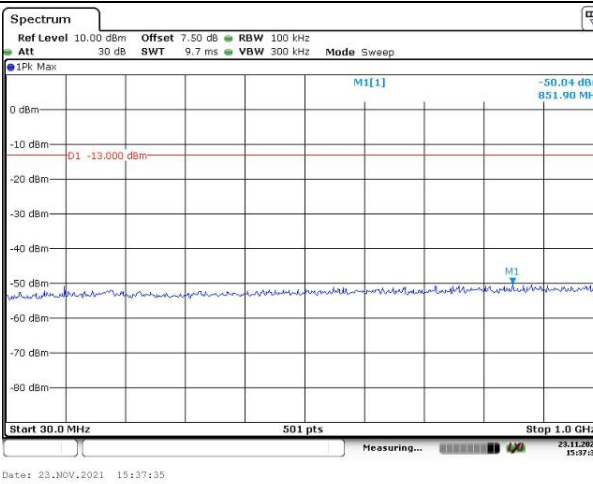
Channel

15MHz Bandwidth QPSK

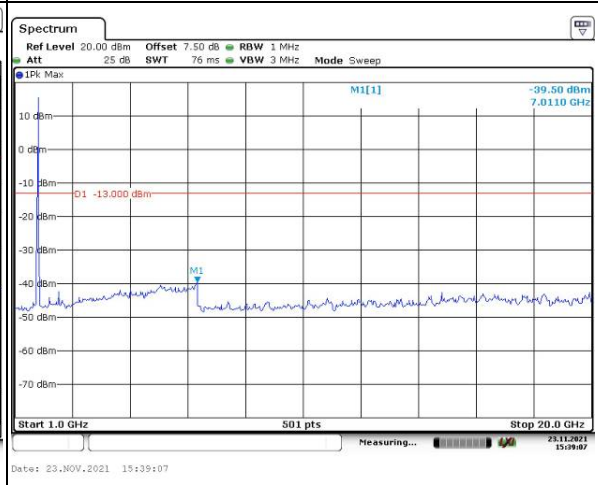
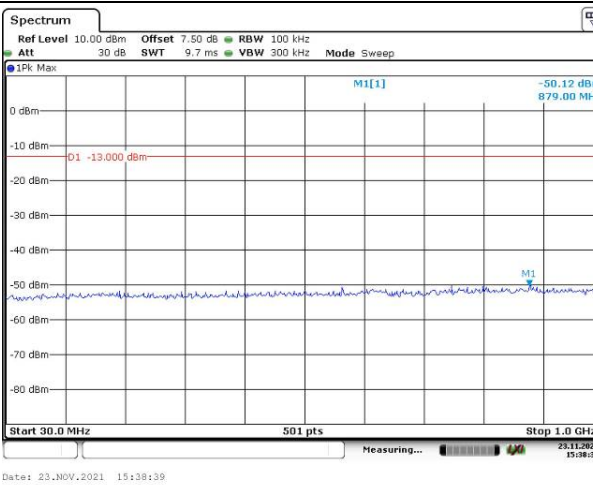
Lowest



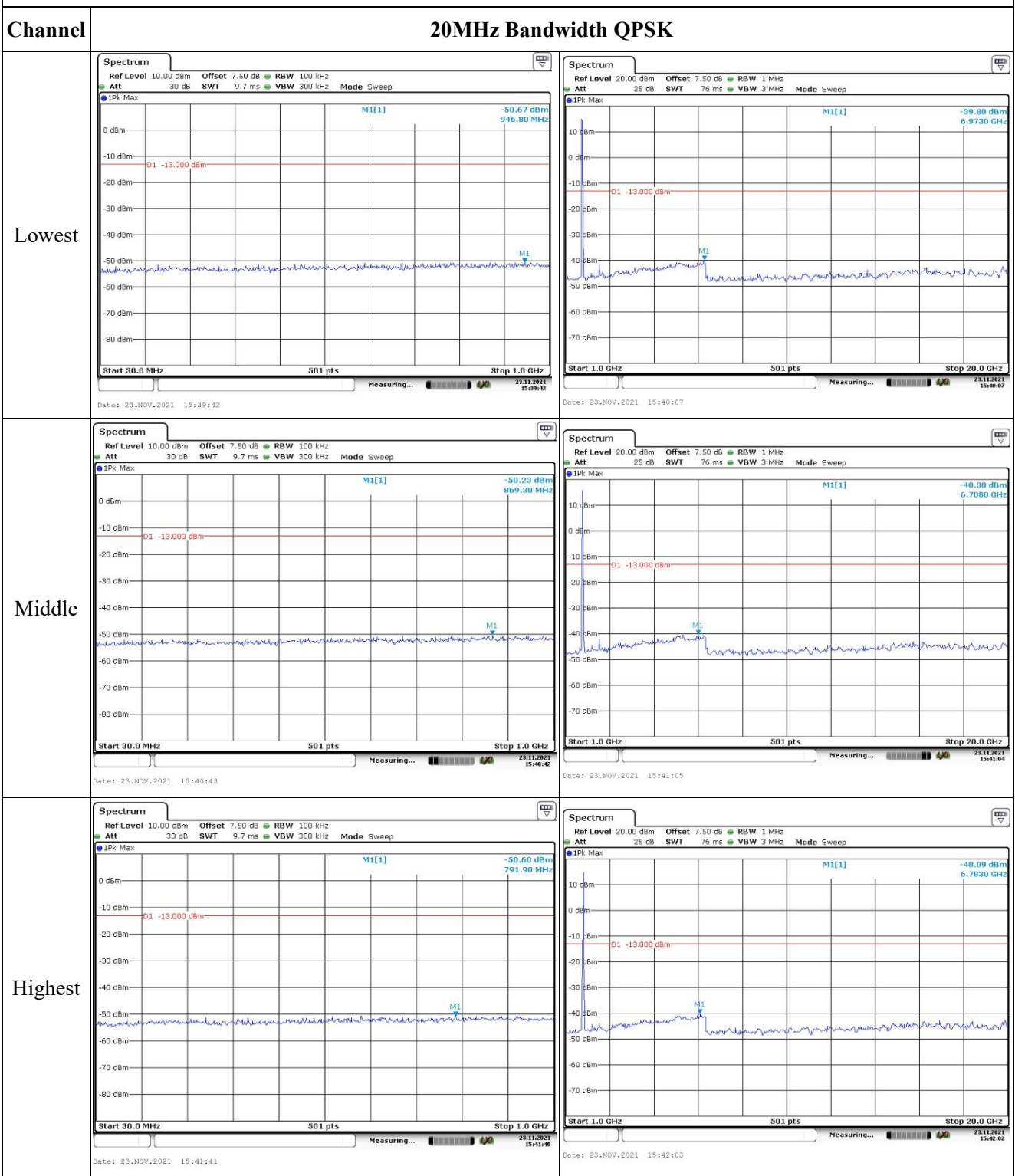
Middle



Highest



Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -18.24 dBm 1.70996410 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 14:10:02</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -20.34 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 14:10:53</p>
QPSK 3MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -22.10 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 14:11:33</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -24.97 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 14:12:16</p>
QPSK 5MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 20 ms VBW 300 kHz Mode Sweep M1[1] -17.88 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 14:13:06</p>	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 20 ms VBW 300 kHz Mode Sweep M1[1] -18.51 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 24.NOV.2021 13:44:03</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -18.06 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 14:10:29</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -21.12 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 14:11:09</p>
16QAM 3MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -21.26 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 14:11:53</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep M1[1] -25.00 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 14:12:37</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 20 ms VBW 300 kHz Mode Sweep M1[1] -16.00 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 24.NOV.2021 13:43:33</p>	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 10 ms VBW 300 kHz Mode Sweep M1[1] -17.34 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 24.NOV.2021 13:44:29</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -20.59 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 14:15:33</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -20.30 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 14:16:22</p>
16QAM 15MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -16.49 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 14:17:18</p>	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 10 ms VBW 1 MHz Mode Sweep M1[1] -19.74 dBm 1.7801800 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 13:48:41</p>
16QAM 20MHz	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -19.07 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 13:49:38</p>	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -18.37 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 13:50:32</p>

4.12 Spurious Emissions

Serial Number:	CR21110011-RF-S1	Test Date:	2021-11-16~2021-11-17
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Great Qiao, Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.9~23.5	Relative Humidity: (%)	53~55	ATM Pressure: (kPa)	100.7~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020-10-19	2023-10-18
R&S	EMI Test Receiver	ESR3	102724	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2023-10-17
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2024-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-3100+	31251	2021-08-08	2022-08-07

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Data:**Cellular Band (PART 22H)****30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
1648.40	H	62.39	-41.94	8.68	0.80	-34.06	-13.00	21.06
1648.40	V	55.93	-48.48	8.68	0.80	-40.60	-13.00	27.60
2472.60	H	59.91	-40.87	9.38	1.00	-32.49	-13.00	19.49
2472.60	V	51.37	-49.36	9.38	1.00	-40.98	-13.00	27.98
3296.80	H	59.08	-37.60	10.32	1.15	-28.43	-13.00	15.43
3296.80	V	48.11	-48.33	10.32	1.15	-39.16	-13.00	26.16
4121.00	H	62.98	-33.02	10.83	1.27	-23.46	-13.00	10.46
4121.00	V	51.89	-44.08	10.83	1.27	-34.52	-13.00	21.52
4945.20	H	55.26	-37.61	11.13	1.50	-27.98	-13.00	14.98
4945.20	V	50.46	-42.42	11.13	1.50	-32.79	-13.00	19.79
300.35	H	40.06	-70.65	0.00	0.34	-70.99	-13.00	57.99
83.80	V	42.11	-66.76	0.00	0.17	-66.93	-13.00	53.93
GSM 850 Frequency:836.6MHz								
1673.20	H	63.35	-40.96	8.71	0.85	-33.10	-13.00	20.10
1673.20	V	54.63	-49.78	8.71	0.85	-41.92	-13.00	28.92
2509.80	H	61.03	-39.58	9.42	1.01	-31.17	-13.00	18.17
2509.80	V	51.63	-48.99	9.42	1.01	-40.58	-13.00	27.58
3346.40	H	60.08	-37.09	10.34	1.16	-27.91	-13.00	14.91
3346.40	V	48.96	-48.07	10.34	1.16	-38.89	-13.00	25.89
4183.00	H	60.25	-35.70	10.79	1.32	-26.23	-13.00	13.23
4183.00	V	51.90	-44.02	10.79	1.32	-34.55	-13.00	21.55
5019.60	H	53.74	-39.27	11.21	1.45	-29.51	-13.00	16.51
5019.60	V	49.96	-42.92	11.21	1.45	-33.16	-13.00	20.16
300.35	H	42.42	-68.29	0.00	0.34	-68.63	-13.00	55.63
218.30	V	41.70	-68.21	0.00	0.27	-68.48	-13.00	55.48
GSM 850 Frequency:848.8MHz								
1697.60	H	62.35	-41.94	8.74	0.90	-34.10	-13.00	21.10
1697.60	V	52.47	-51.95	8.74	0.90	-44.11	-13.00	31.11
2546.40	H	59.69	-40.64	9.47	1.01	-32.18	-13.00	19.18
2546.40	V	47.29	-52.99	9.47	1.01	-44.53	-13.00	31.53
3395.20	H	60.95	-36.74	10.36	1.19	-27.57	-13.00	14.57
3395.20	V	48.96	-48.70	10.36	1.19	-39.53	-13.00	26.53
4244.00	H	52.46	-43.63	10.75	1.30	-34.18	-13.00	21.18
4244.00	V	52.34	-43.68	10.75	1.30	-34.23	-13.00	21.23
5092.80	H	51.56	-41.71	11.26	1.53	-31.98	-13.00	18.98
5092.80	V	51.42	-41.76	11.26	1.53	-32.03	-13.00	19.03
218.30	H	40.00	-72.53	0.00	0.27	-72.80	-13.00	59.80
219.85	V	44.14	-65.82	0.00	0.27	-66.09	-13.00	53.09

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
1652.80	H	37.04	-67.29	8.68	0.81	-59.42	-13.00	46.42
1652.80	V	35.59	-68.82	8.68	0.81	-60.95	-13.00	47.95
2479.20	H	33.67	-67.09	9.39	1.01	-58.71	-13.00	45.71
2479.20	V	34.76	-65.97	9.39	1.01	-57.59	-13.00	44.59
3305.60	H	34.31	-62.42	10.32	1.15	-53.25	-13.00	40.25
3305.60	V	33.88	-62.62	10.32	1.15	-53.45	-13.00	40.45
317.10	H	35.26	-75.20	0.00	0.34	-75.54	-13.00	62.54
374.60	V	38.43	-68.44	0.00	0.37	-68.81	-13.00	55.81
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	36.54	-67.77	8.71	0.85	-59.91	-13.00	46.91
1673.20	V	36.37	-68.04	8.71	0.85	-60.18	-13.00	47.18
2509.80	H	36.19	-64.42	9.42	1.01	-56.01	-13.00	43.01
2509.80	V	34.85	-65.77	9.42	1.01	-57.36	-13.00	44.36
3346.40	H	35.73	-61.44	10.34	1.16	-52.26	-13.00	39.26
3346.40	V	35.64	-61.39	10.34	1.16	-52.21	-13.00	39.21
374.60	H	35.68	-73.91	0.00	0.37	-74.28	-13.00	61.28
399.90	V	38.64	-67.57	0.00	0.40	-67.97	-13.00	54.97
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	35.43	-68.87	8.73	0.89	-61.03	-13.00	48.03
1693.20	V	35.28	-69.14	8.73	0.89	-61.30	-13.00	48.30
2539.80	H	36.13	-64.25	9.46	1.01	-55.80	-13.00	42.80
2539.80	V	35.79	-64.55	9.46	1.01	-56.10	-13.00	43.10
3386.40	H	35.61	-61.98	10.35	1.18	-52.81	-13.00	39.81
3386.40	V	35.42	-62.12	10.35	1.18	-52.95	-13.00	39.95
300.20	H	35.32	-75.40	0.00	0.34	-75.74	-13.00	62.74
374.60	V	38.59	-68.28	0.00	0.37	-68.65	-13.00	55.65

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
3700.40	H	65.32	-32.00	10.60	1.25	-22.65	-13.00	9.65
3700.40	V	55.04	-42.26	10.60	1.25	-32.91	-13.00	19.91
5550.60	H	46.66	-46.60	11.44	1.49	-36.65	-13.00	23.65
5550.60	V	42.51	-50.59	11.44	1.49	-40.64	-13.00	27.64
7400.80	H	44.04	-45.17	10.96	2.07	-36.28	-13.00	23.28
7400.80	V	39.32	-50.66	10.96	2.07	-41.77	-13.00	28.77
219.90	H	42.60	-69.90	0.00	0.27	-70.17	-13.00	57.17
224.52	V	53.64	-56.48	0.00	0.28	-56.76	-13.00	43.76
GSM 1900 Frequency:1880MHz								
3760.00	H	63.62	-32.79	10.66	1.24	-23.37	-13.00	10.37
3760.00	V	64.23	-32.06	10.66	1.24	-22.64	-13.00	9.64
5640.00	H	46.36	-47.09	11.33	1.54	-37.30	-13.00	24.30
5640.00	V	43.16	-50.17	11.33	1.54	-40.38	-13.00	27.38
7520.00	H	43.35	-46.40	10.90	1.96	-37.46	-13.00	24.46
7520.00	V	39.35	-50.93	10.90	1.96	-41.99	-13.00	28.99
300.37	H	51.90	-58.81	0.00	0.34	-59.15	-13.00	46.15
300.37	V	58.32	-50.48	0.00	0.34	-50.82	-13.00	37.82
GSM 1900 Frequency:1909.8MHz								
3819.60	H	69.07	-26.79	10.72	1.29	-17.36	-13.00	4.36
3819.60	V	58.77	-36.95	10.72	1.29	-27.52	-13.00	14.52
5729.40	H	44.63	-48.85	11.22	1.59	-39.22	-13.00	26.22
5729.40	V	40.48	-52.88	11.22	1.59	-43.25	-13.00	30.25
7639.20	H	41.79	-47.70	10.87	2.05	-38.88	-13.00	25.88
7639.20	V	40.18	-50.01	10.87	2.05	-41.19	-13.00	28.19
219.30	H	41.70	-70.81	0.00	0.27	-71.08	-13.00	58.08
147.46	V	45.30	-62.82	0.00	0.23	-63.05	-13.00	50.05

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
3704.80	H	36.33	-60.93	10.60	1.25	-51.58	-13.00	38.58
3704.80	V	34.69	-62.54	10.60	1.25	-53.19	-13.00	40.19
5557.20	H	35.21	-58.07	11.43	1.49	-48.13	-13.00	35.13
5557.20	V	36.54	-56.59	11.43	1.49	-46.65	-13.00	33.65
317.10	H	35.14	-75.32	0.00	0.34	-75.66	-13.00	62.66
800.00	V	37.82	-60.92	0.00	0.58	-61.50	-13.00	48.50
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	37.84	-58.57	10.66	1.24	-49.15	-13.00	36.15
3760.00	V	35.81	-60.48	10.66	1.24	-51.06	-13.00	38.06
5640.00	H	34.75	-58.70	11.33	1.54	-48.91	-13.00	35.91
5640.00	V	34.29	-59.04	11.33	1.54	-49.25	-13.00	36.25
57.40	H	37.19	-65.91	-11.50	0.14	-77.55	-13.00	64.55
374.60	V	38.50	-68.37	0.00	0.37	-68.74	-13.00	55.74
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	38.26	-57.59	10.72	1.29	-48.16	-13.00	35.16
3815.20	V	35.27	-60.42	10.72	1.29	-50.99	-13.00	37.99
5722.80	H	35.95	-57.54	11.23	1.58	-47.89	-13.00	34.89
5722.80	V	35.88	-57.47	11.23	1.58	-47.82	-13.00	34.82
317.10	H	35.80	-74.66	0.00	0.34	-75.00	-13.00	62.00
374.60	V	38.21	-68.66	0.00	0.37	-69.03	-13.00	56.03

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1712.4 MHz								
3424.80	H	35.94	-61.83	10.37	1.17	-52.63	-13.00	39.63
3424.80	V	34.84	-62.90	10.37	1.17	-53.70	-13.00	40.70
5137.20	H	36.86	-56.76	11.28	1.46	-46.94	-13.00	33.94
5137.20	V	35.29	-58.21	11.28	1.46	-48.39	-13.00	35.39
40.50	H	35.47	-49.73	-25.74	0.12	-75.59	-13.00	62.59
399.90	V	38.41	-67.80	0.00	0.40	-68.20	-13.00	55.20
WCDMA Band IV, Frequency:1732.6 MHz								
3465.20	H	35.66	-62.15	10.39	1.15	-52.91	-13.00	39.91
3465.20	V	36.49	-61.28	10.39	1.15	-52.04	-13.00	39.04
5197.80	H	35.37	-58.76	11.32	1.44	-48.88	-13.00	35.88
5197.80	V	35.19	-58.80	11.32	1.44	-48.92	-13.00	35.92
40.50	H	35.38	-49.82	-25.74	0.12	-75.68	-13.00	62.68
374.60	V	37.93	-68.94	0.00	0.37	-69.31	-13.00	56.31
WCDMA Band IV, Frequency:1752.6MHz								
3505.20	H	35.77	-62.06	10.41	1.18	-52.83	-13.00	39.83
3505.20	V	36.92	-60.85	10.41	1.18	-51.62	-13.00	38.62
5257.80	H	35.89	-57.84	11.35	1.47	-47.96	-13.00	34.96
5257.80	V	34.71	-58.80	11.35	1.47	-48.92	-13.00	35.92
55.95	H	35.97	-66.69	-12.16	0.14	-78.99	-13.00	65.99
374.60	V	38.26	-68.61	0.00	0.37	-68.98	-13.00	55.98

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1850.7 MHz								
3701.40	H	43.99	-53.32	10.60	1.25	-43.97	-13.00	30.97
3701.40	V	38.77	-58.52	10.60	1.25	-49.17	-13.00	36.17
5552.10	H	36.95	-56.32	11.44	1.49	-46.37	-13.00	33.37
5552.10	V	34.51	-58.59	11.44	1.49	-48.64	-13.00	35.64
374.60	H	35.29	-74.30	0.00	0.37	-74.67	-13.00	61.67
317.10	V	37.59	-70.78	0.00	0.34	-71.12	-13.00	58.12
QPSK, Frequency: 1880 MHz								
3760.00	H	44.48	-51.93	10.66	1.24	-42.51	-13.00	29.51
3760.00	V	38.75	-57.54	10.66	1.24	-48.12	-13.00	35.12
5640.00	H	36.55	-56.90	11.33	1.54	-47.11	-13.00	34.11
5640.00	V	35.62	-57.71	11.33	1.54	-47.92	-13.00	34.92
374.60	H	35.53	-74.06	0.00	0.37	-74.43	-13.00	61.43
374.60	V	38.66	-68.21	0.00	0.37	-68.58	-13.00	55.58
QPSK, Frequency: 1909.3 MHz								
3818.60	H	45.63	-50.23	10.72	1.29	-40.80	-13.00	27.80
3818.60	V	38.21	-57.50	10.72	1.29	-48.07	-13.00	35.07
5727.90	H	36.95	-56.53	11.23	1.59	-46.89	-13.00	33.89
5727.90	V	35.78	-57.58	11.23	1.59	-47.94	-13.00	34.94
374.60	H	35.80	-73.79	0.00	0.37	-74.16	-13.00	61.16
374.60	V	38.51	-68.36	0.00	0.37	-68.73	-13.00	55.73

LTE Band 4 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	36.94	-60.82	10.37	1.17	-51.62	-13.00	38.62
3421.40	V	35.21	-62.52	10.37	1.17	-53.32	-13.00	40.32
5132.10	H	36.85	-56.72	11.28	1.47	-46.91	-13.00	33.91
5132.10	V	36.21	-57.25	11.28	1.47	-47.44	-13.00	34.44
40.50	H	35.47	-49.73	-25.74	0.12	-75.59	-13.00	62.59
399.90	V	38.41	-67.80	0.00	0.40	-68.20	-13.00	55.20
QPSK, Frequency: 1732.5 MHz								
3465.00	H	35.73	-62.08	10.39	1.15	-52.84	-13.00	39.84
3465.00	V	34.72	-63.05	10.39	1.15	-53.81	-13.00	40.81
5197.50	H	34.65	-59.48	11.32	1.44	-49.60	-13.00	36.60
5197.50	V	35.18	-58.80	11.32	1.44	-48.92	-13.00	35.92
40.50	H	35.38	-49.82	-25.74	0.12	-75.68	-13.00	62.68
374.60	V	37.93	-68.94	0.00	0.37	-69.31	-13.00	56.31
QPSK, Frequency: 1754.3 MHz								
3505.20	H	36.34	-61.49	10.41	1.18	-52.26	-13.00	39.26
3505.20	V	35.19	-62.58	10.41	1.18	-53.35	-13.00	40.35
5257.80	H	33.92	-59.81	11.35	1.47	-49.93	-13.00	36.93
5257.80	V	34.06	-59.45	11.35	1.47	-49.57	-13.00	36.57
55.95	H	35.97	-66.69	-12.16	0.14	-78.99	-13.00	65.99
374.60	V	38.26	-68.61	0.00	0.37	-68.98	-13.00	55.98

LTE Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
1649.40	H	36.56	-67.77	8.68	0.80	-59.89	-13.00	46.89
1649.40	V	34.83	-69.58	8.68	0.80	-61.70	-13.00	48.70
2474.10	H	34.89	-65.89	9.38	1.00	-57.51	-13.00	44.51
2474.10	V	36.49	-64.24	9.38	1.00	-55.86	-13.00	42.86
3298.80	H	33.84	-62.84	10.32	1.15	-53.67	-13.00	40.67
3298.80	V	35.18	-61.26	10.32	1.15	-52.09	-13.00	39.09
559.60	H	35.21	-70.43	0.00	0.47	-70.90	-13.00	57.90
374.60	V	38.12	-68.75	0.00	0.37	-69.12	-13.00	56.12
QPSK, Frequency: 836.5 MHz								
1673.00	H	34.62	-69.69	8.71	0.85	-61.83	-13.00	48.83
1673.00	V	35.89	-68.52	8.71	0.85	-60.66	-13.00	47.66
2509.50	H	34.16	-66.45	9.42	1.01	-58.04	-13.00	45.04
2509.50	V	34.22	-66.40	9.42	1.01	-57.99	-13.00	44.99
3346.00	H	35.82	-61.34	10.34	1.16	-52.16	-13.00	39.16
3346.00	V	33.17	-63.85	10.34	1.16	-54.67	-13.00	41.67
559.90	H	34.67	-70.96	0.00	0.47	-71.43	-13.00	58.43
374.60	V	38.38	-68.49	0.00	0.37	-68.86	-13.00	55.86
QPSK, Frequency: 848.3 MHz								
1696.60	H	34.95	-69.34	8.74	0.89	-61.49	-13.00	48.49
1696.60	V	36.22	-68.20	8.74	0.89	-60.35	-13.00	47.35
2544.90	H	34.49	-65.85	9.47	1.01	-57.39	-13.00	44.39
2544.90	V	34.55	-65.74	9.47	1.01	-57.28	-13.00	44.28
3393.20	H	36.15	-61.51	10.36	1.19	-52.34	-13.00	39.34
3393.20	V	33.50	-64.13	10.36	1.19	-54.96	-13.00	41.96
559.90	H	35.09	-70.54	0.00	0.47	-71.01	-13.00	58.01
374.60	V	38.65	-68.22	0.00	0.37	-68.59	-13.00	55.59

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 699.7 MHz								
1399.40	H	35.44	-68.26	8.22	0.71	-60.75	-13.00	47.75
1399.40	V	36.74	-67.01	8.22	0.71	-59.50	-13.00	46.50
2099.10	H	36.21	-65.67	9.16	0.91	-57.42	-13.00	44.42
2099.10	V	35.91	-65.92	9.16	0.91	-57.67	-13.00	44.67
2798.80	H	36.12	-63.81	9.88	1.04	-54.97	-13.00	41.97
2798.80	V	34.79	-65.01	9.88	1.04	-56.17	-13.00	43.17
800.00	H	35.04	-67.29	0.00	0.58	-67.87	-13.00	54.87
399.95	V	39.21	-67.00	0.00	0.40	-67.40	-13.00	54.40
QPSK, Frequency:707.5 MHz								
1415.00	H	34.73	-68.94	8.26	0.72	-61.40	-13.00	48.40
1415.00	V	34.15	-69.57	8.26	0.72	-62.03	-13.00	49.03
2122.50	H	34.22	-67.77	9.17	0.92	-59.52	-13.00	46.52
2122.50	V	35.89	-66.08	9.17	0.92	-57.83	-13.00	44.83
2830.00	H	35.76	-64.04	9.93	1.06	-55.17	-13.00	42.17
2830.00	V	34.15	-65.58	9.93	1.06	-56.71	-13.00	43.71
40.50	H	35.80	-49.40	-25.74	0.12	-75.26	-13.00	62.26
374.60	V	38.39	-68.48	0.00	0.37	-68.85	-13.00	55.85
QPSK, Frequency: 715.3 MHz								
1430.60	H	34.77	-68.86	8.31	0.73	-61.28	-13.00	48.28
1430.60	V	35.64	-68.05	8.31	0.73	-60.47	-13.00	47.47
2145.90	H	36.49	-65.61	9.19	0.93	-57.35	-13.00	44.35
2145.90	V	35.61	-66.50	9.19	0.93	-58.24	-13.00	45.24
2861.20	H	35.41	-64.24	9.98	1.07	-55.33	-13.00	42.33
2861.20	V	35.21	-64.46	9.98	1.07	-55.55	-13.00	42.55
800.00	H	35.18	-67.15	0.00	0.58	-67.73	-13.00	54.73
399.90	V	39.95	-66.26	0.00	0.40	-66.66	-13.00	53.66

LTE Band 17(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 706.5 MHz								
1413.00	H	35.54	-68.13	8.26	0.72	-60.59	-13.00	47.59
1413.00	V	36.84	-66.88	8.26	0.72	-59.34	-13.00	46.34
2119.50	H	36.31	-65.66	9.17	0.92	-57.41	-13.00	44.41
2119.50	V	36.01	-65.94	9.17	0.92	-57.69	-13.00	44.69
2826.00	H	36.22	-63.59	9.92	1.06	-54.73	-13.00	41.73
2826.00	V	34.89	-64.85	9.92	1.06	-55.99	-13.00	42.99
800.00	H	35.04	-67.29	0.00	0.58	-67.87	-13.00	54.87
399.95	V	39.21	-67.00	0.00	0.40	-67.40	-13.00	54.40
QPSK, Frequency:710 MHz								
1420.00	H	34.83	-68.83	8.28	0.73	-61.28	-13.00	48.28
1420.00	V	34.25	-69.46	8.28	0.73	-61.91	-13.00	48.91
2130.00	H	34.32	-67.70	9.18	0.92	-59.44	-13.00	46.44
2130.00	V	35.99	-66.02	9.18	0.92	-57.76	-13.00	44.76
2840.00	H	35.86	-63.89	9.94	1.06	-55.01	-13.00	42.01
2840.00	V	34.25	-65.46	9.94	1.06	-56.58	-13.00	43.58
559.90	H	35.67	-69.96	0.00	0.47	-70.43	-13.00	57.43
399.90	V	38.39	-67.82	0.00	0.40	-68.22	-13.00	55.22
QPSK, Frequency: 713.5 MHz								
1427.00	H	34.87	-68.77	8.30	0.73	-61.20	-13.00	48.20
1427.00	V	35.74	-67.95	8.30	0.73	-60.38	-13.00	47.38
2140.50	H	36.59	-65.48	9.18	0.93	-57.23	-13.00	44.23
2140.50	V	35.71	-66.37	9.18	0.93	-58.12	-13.00	45.12
2854.00	H	35.51	-64.18	9.97	1.07	-55.28	-13.00	42.28
2854.00	V	35.31	-64.37	9.97	1.07	-55.47	-13.00	42.47
559.90	H	35.74	-69.89	0.00	0.47	-70.36	-13.00	57.36
399.90	V	38.74	-67.47	0.00	0.40	-67.87	-13.00	54.87

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	35.64	-62.12	10.37	1.17	-52.92	-13.00	39.92
3421.40	V	36.92	-60.81	10.37	1.17	-51.61	-13.00	38.61
5132.10	H	34.78	-58.79	11.28	1.47	-48.98	-13.00	35.98
5132.10	V	34.15	-59.31	11.28	1.47	-49.50	-13.00	36.50
559.90	H	34.42	-71.21	0.00	0.47	-71.68	-13.00	58.68
399.60	V	39.85	-66.37	0.00	0.40	-66.77	-13.00	53.77
QPSK, Frequency:1745 MHz								
3490.00	H	34.62	-63.22	10.40	1.17	-53.99	-13.00	40.99
3490.00	V	35.69	-62.09	10.40	1.17	-52.86	-13.00	39.86
5235.00	H	35.86	-58.04	11.34	1.46	-48.16	-13.00	35.16
5235.00	V	34.76	-58.95	11.34	1.46	-49.07	-13.00	36.07
800.00	H	34.96	-67.37	0.00	0.58	-67.95	-13.00	54.95
399.90	V	39.60	-66.61	0.00	0.40	-67.01	-13.00	54.01
QPSK, Frequency: 1779.3 MHz								
3558.60	H	34.76	-62.91	10.46	1.22	-53.67	-13.00	40.67
3558.60	V	34.55	-63.02	10.46	1.22	-53.78	-13.00	40.78
5337.90	H	34.92	-58.55	11.40	1.47	-48.62	-13.00	35.62
5337.90	V	34.18	-59.15	11.40	1.47	-49.22	-13.00	36.22
559.90	H	34.31	-71.32	0.00	0.47	-71.79	-13.00	58.79
399.90	V	39.27	-66.94	0.00	0.40	-67.34	-13.00	54.34

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

******* END OF REPORT *******