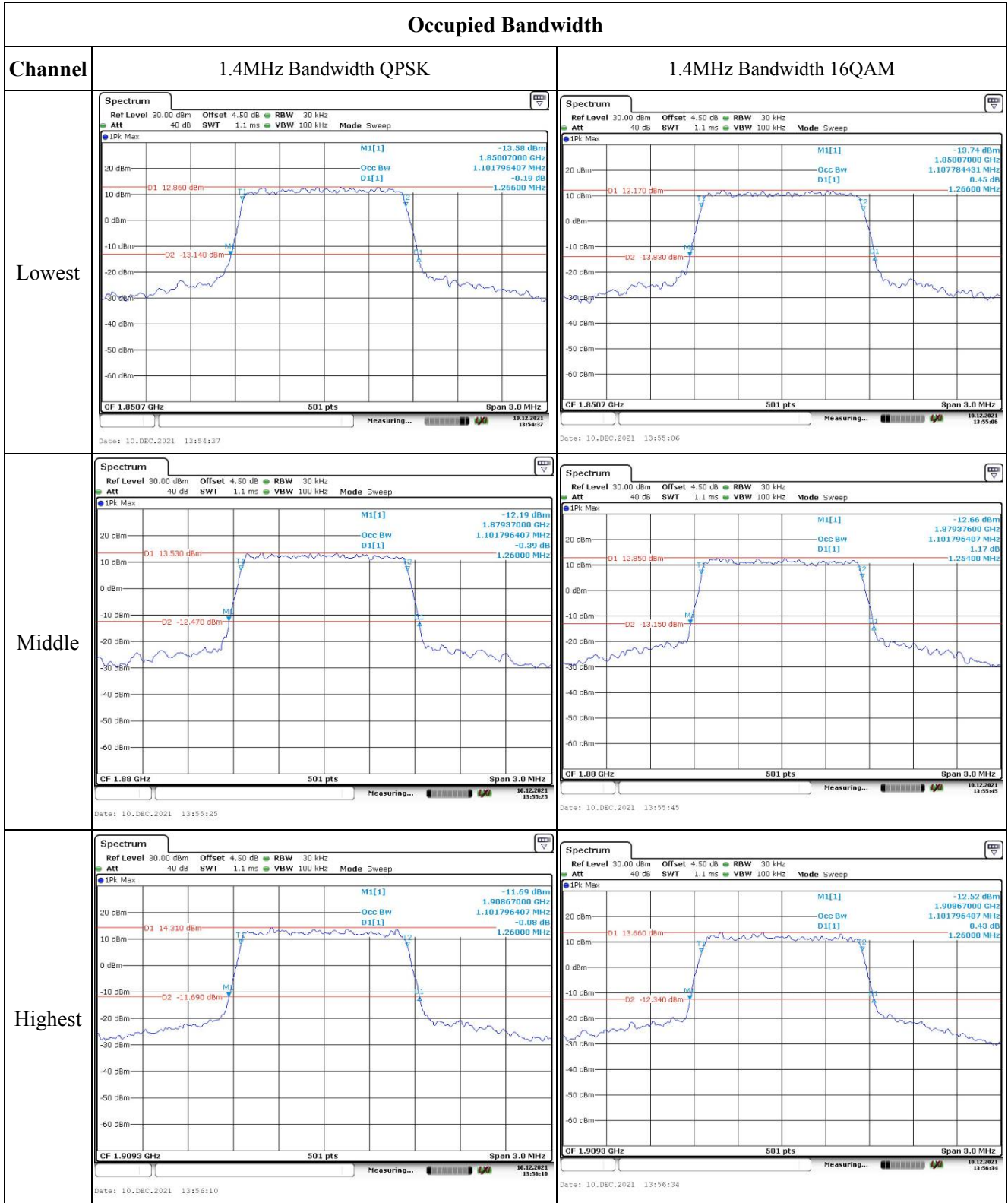


Test Plots:

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -14.57 dBm Occ Bw 2.694610778 MHz D1[1] 0.30 dB 2.9880 MHz CF 1.8515 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:57:01</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.34 dBm Occ Bw 2.694610778 MHz D1[1] -1.01 dB 3.0240 MHz CF 1.8515 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:57:28</p>
Middle	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -15.14 dBm Occ Bw 2.694610778 MHz D1[1] 1.02 dB 3.0000 MHz CF 1.88 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:57:46</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -15.63 dBm Occ Bw 2.682634731 MHz D1[1] -1.41 dB 3.0120 MHz CF 1.88 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:58:10</p>
Highest	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -16.47 dBm Occ Bw 2.694610778 MHz D1[1] 0.41 dB 3.0240 MHz CF 1.9085 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:58:38</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Pk Max M1[1] -15.38 dBm Occ Bw 2.694610778 MHz D1[1] -0.48 dB 3.0240 MHz CF 1.9085 GHz 501 pts Span 6.0 MHz Date: 10.DEC.2021 13:58:05</p>

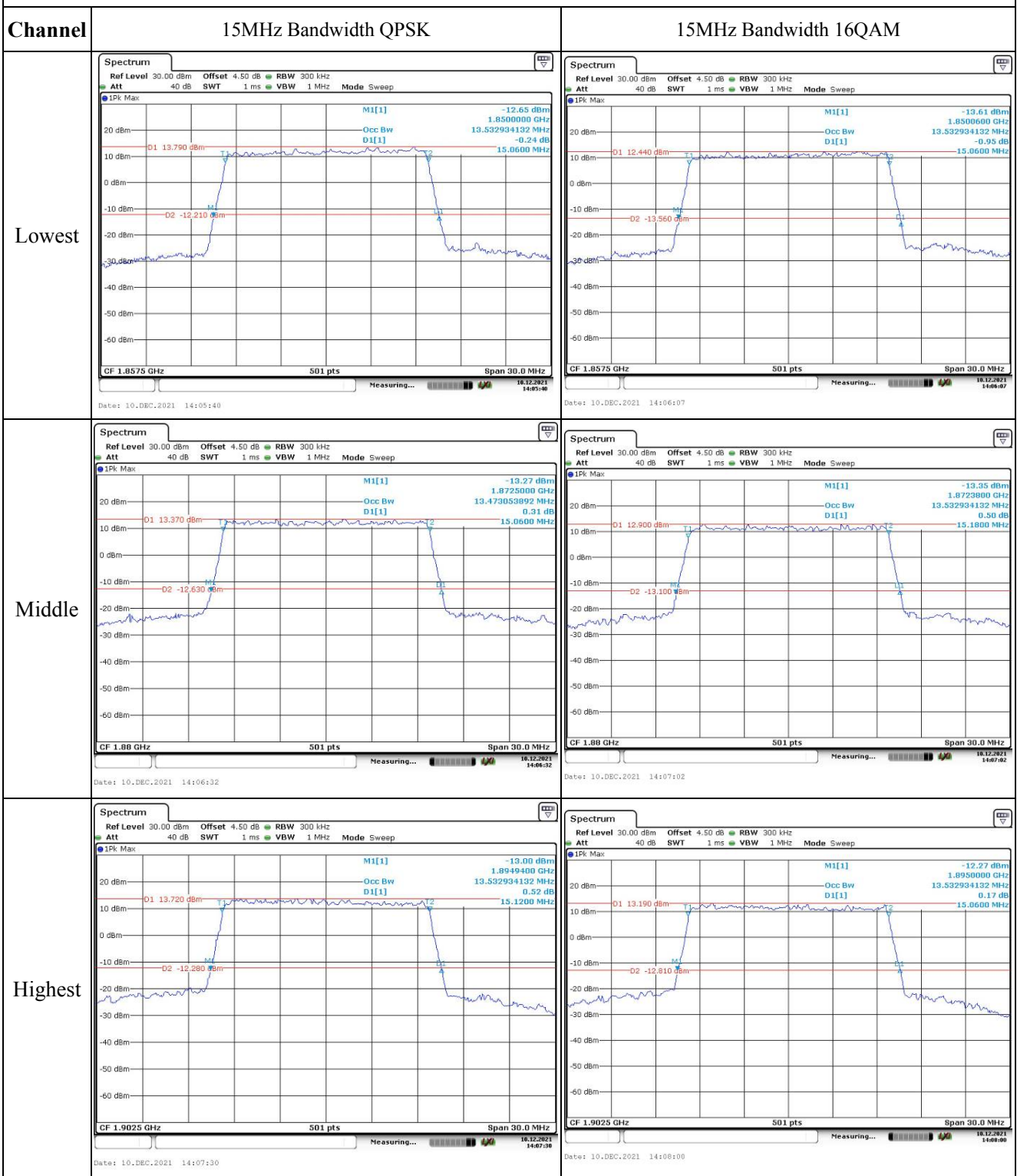
Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -12.54 dBm Occ Bw 4.9800 MHz D1[1] -0.14 dB CF 1.8525 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 13:59:32</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -13.36 dBm Occ Bw 5.0000 MHz D1[1] -0.21 dB CF 1.8525 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 14:00:02</p>
Middle	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -13.16 dBm Occ Bw 5.0200 MHz D1[1] -0.38 dB CF 1.88 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 14:00:26</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -13.07 dBm Occ Bw 5.0200 MHz D1[1] 0.20 dB CF 1.88 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 14:00:47</p>
Highest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -11.61 dBm Occ Bw 5.0000 MHz D1[1] -1.53 dB CF 1.9075 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 14:01:11</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -15.14 dBm Occ Bw 5.0200 MHz D1[1] 2.11 dB CF 1.9075 GHz 501 pts Span 10.0 MHz Date: 10.DEC.2021 14:01:38</p>

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -15.77 dBm Occ Bw 1.8501600 GHz D1[1] -0.22 dB D2 -15.290 dBm</p> <p>CF 1.855 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:02:13</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -14.03 dBm Occ Bw 1.8501600 GHz D1[1] -0.21 dB D2 -14.470 dBm</p> <p>CF 1.855 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:03:00</p>
Middle	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -15.25 dBm Occ Bw 1.8751200 GHz D1[1] -1.15 dB D2 -15.220 dBm</p> <p>CF 1.88 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:03:28</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -14.75 dBm Occ Bw 1.8751200 GHz D1[1] -1.68 dB D2 -16.160 dBm</p> <p>CF 1.88 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:03:53</p>
Highest	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -15.71 dBm Occ Bw 1.9001200 GHz D1[1] -0.11 dB D2 -15.330 dBm</p> <p>CF 1.905 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:04:31</p>	<p>10MHz Bandwidth 16QAM</p> <p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -16.10 dBm Occ Bw 1.9000800 GHz D1[1] -0.78 dB D2 -16.110 dBm</p> <p>CF 1.905 GHz 501 pts Span 20.0 MHz</p> <p>Date: 10.DEC.2021 14:05:06</p>

Occupied Bandwidth



Occupied Bandwidth

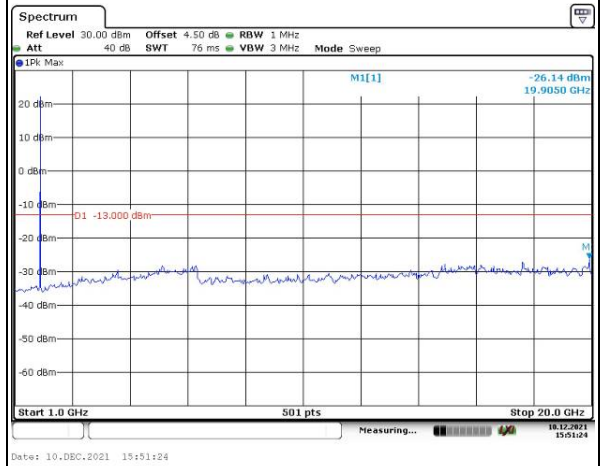
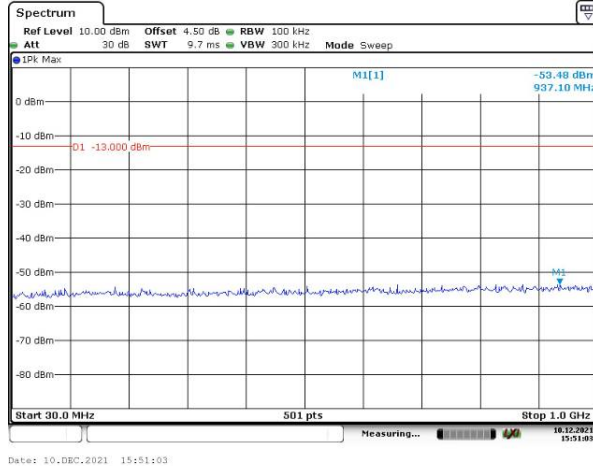
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

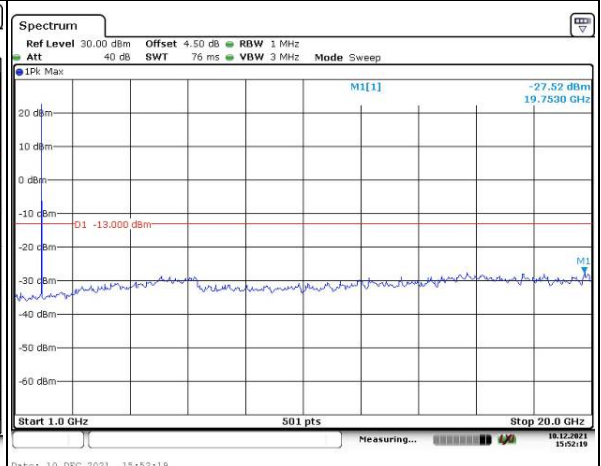
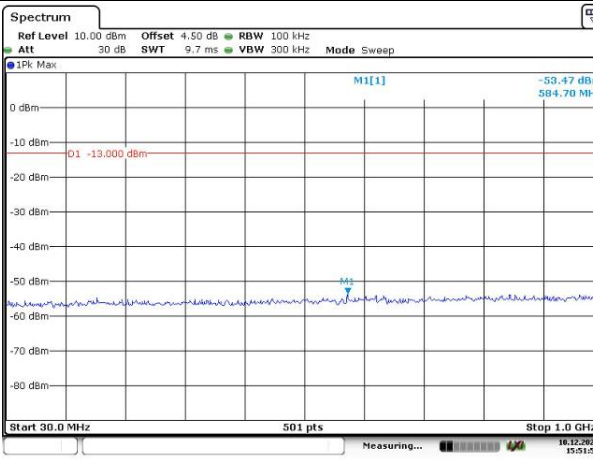
Channel

1.4MHz Bandwidth QPSK

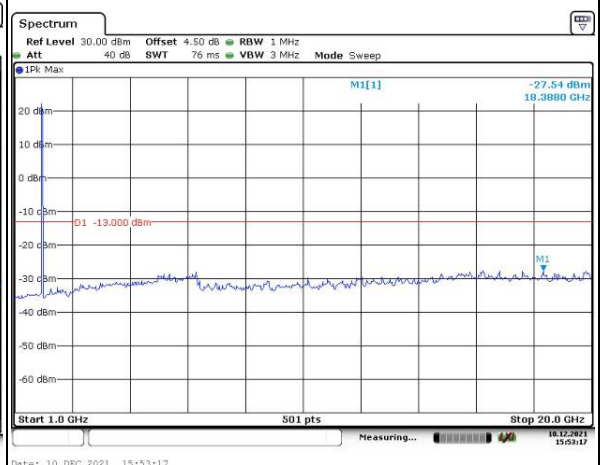
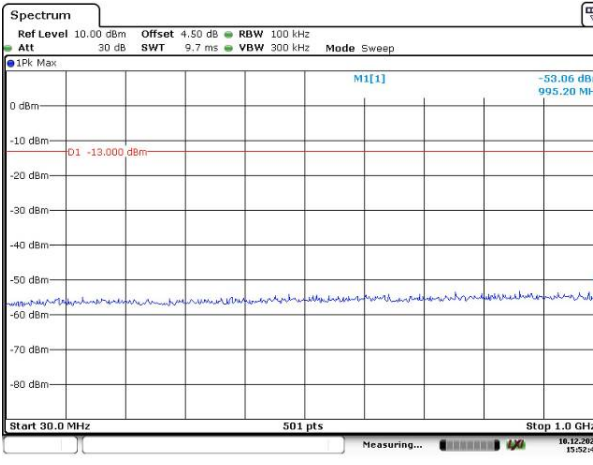
Lowest



Middle



Highest



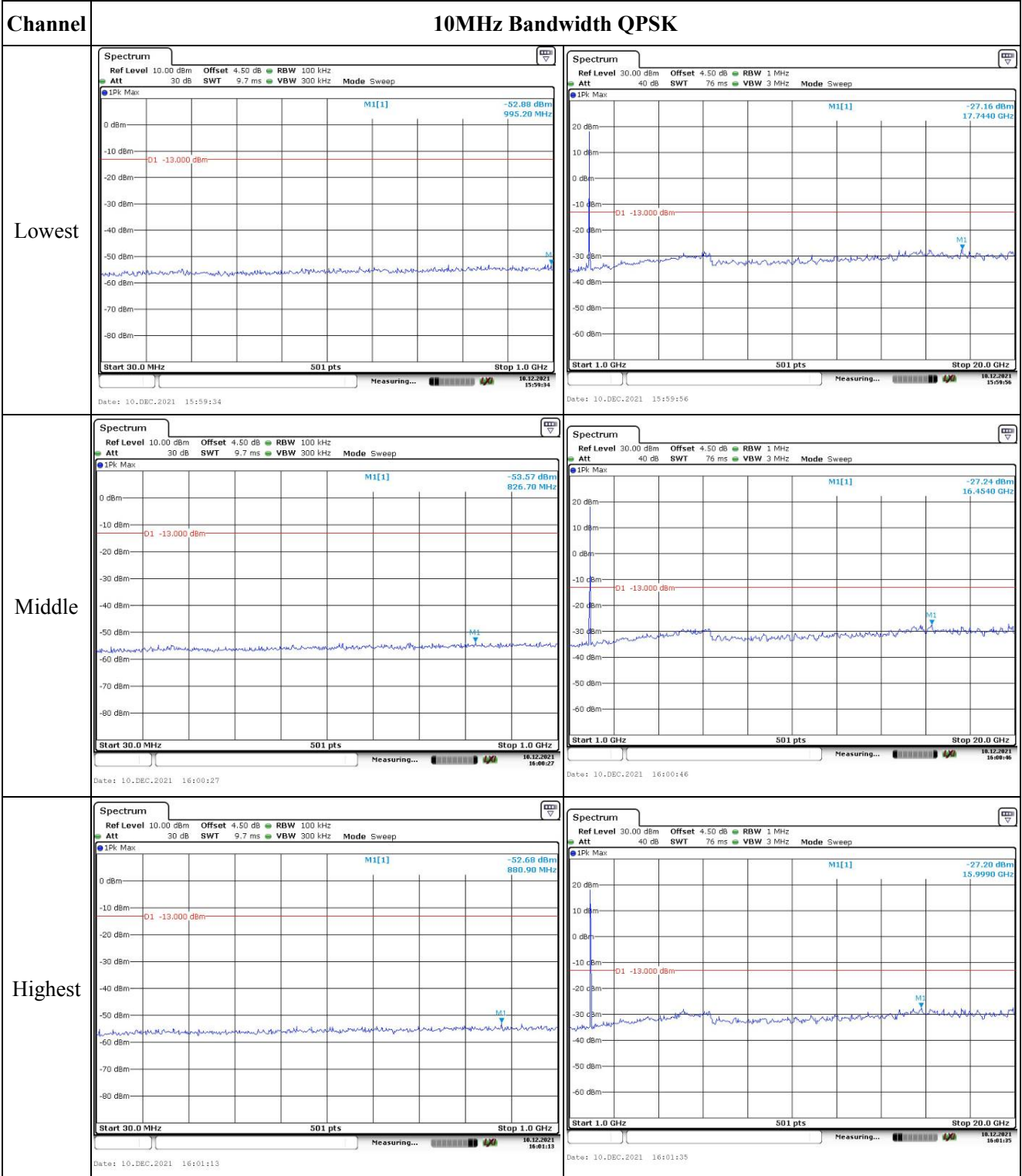
Spurious Emissions at Antenna Terminal

Channel	3MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -53.29 dBm 778.30 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:53:53</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -27.85 dBm 17.7440 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:54:10</p>
Middle	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -52.52 dBm 772.50 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:54:54</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -27.14 dBm 15.6960 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:55:19</p>
Highest	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -52.60 dBm 892.50 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:55:46</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -27.17 dBm 16.4160 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:56:08</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -52.81 dBm 638.90 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:56:44</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -26.92 dBm 17.7440 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:57:12</p>
Middle	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -53.47 dBm 995.20 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:57:42</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -27.66 dBm 17.7060 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:58:08</p>
Highest	<p>Spectrum Ref Level 10.00 dBm Offset 4.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -53.00 dBm 952.60 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 10.DEC.2021 15:58:38</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 1 MHz Att 40 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -27.42 dBm 17.7060 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 10.DEC.2021 15:59:00</p>

Spurious Emissions at Antenna Terminal

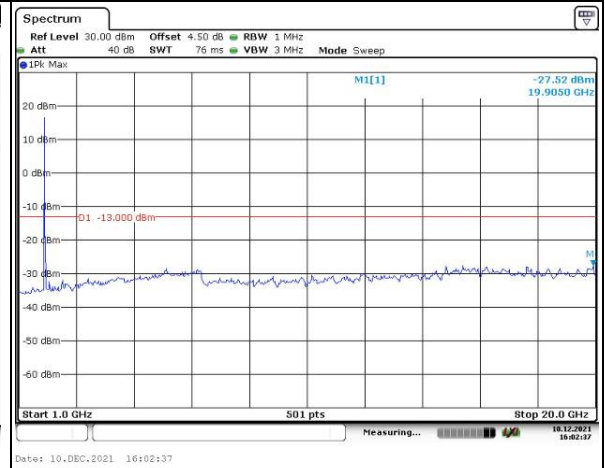
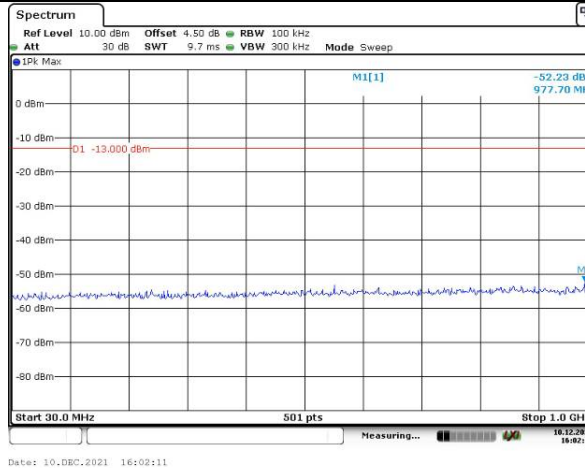


Spurious Emissions at Antenna Terminal

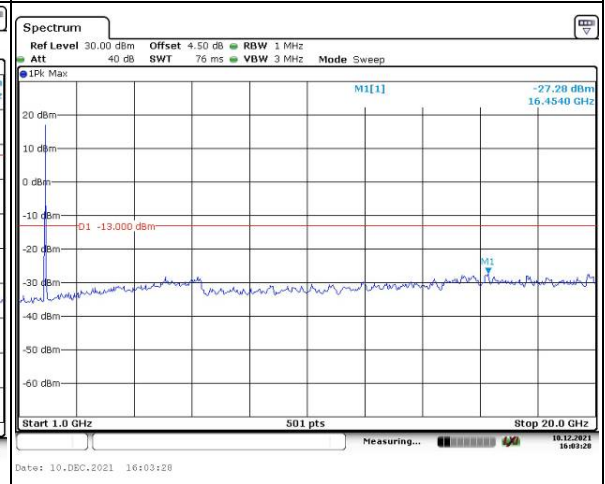
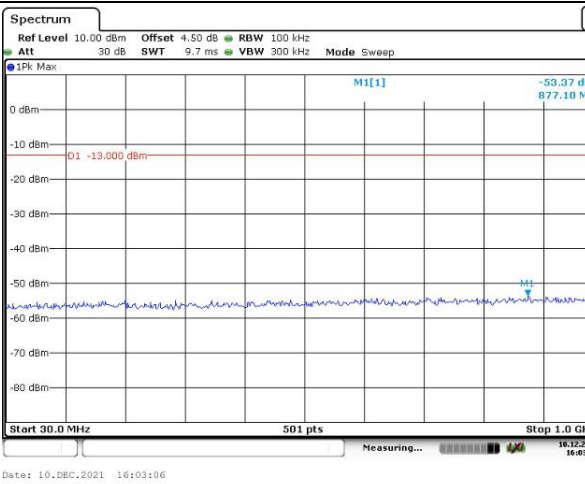
Channel

15MHz Bandwidth QPSK

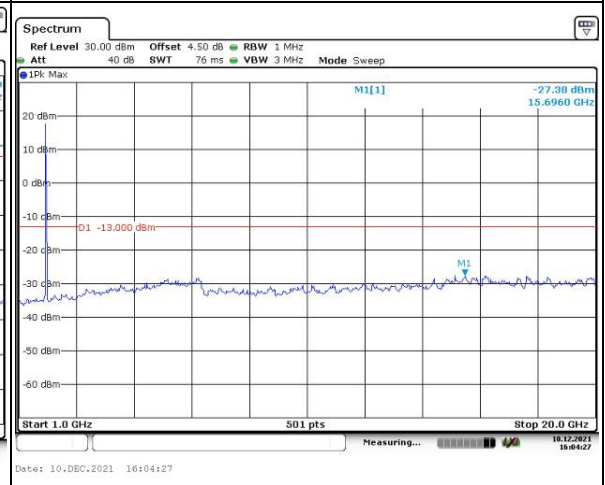
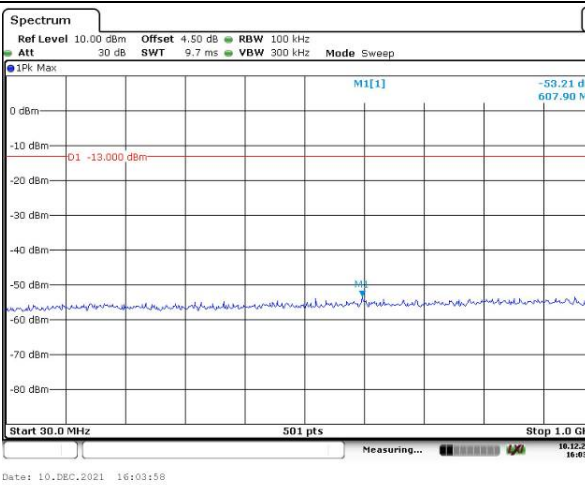
Lowest



Middle



Highest

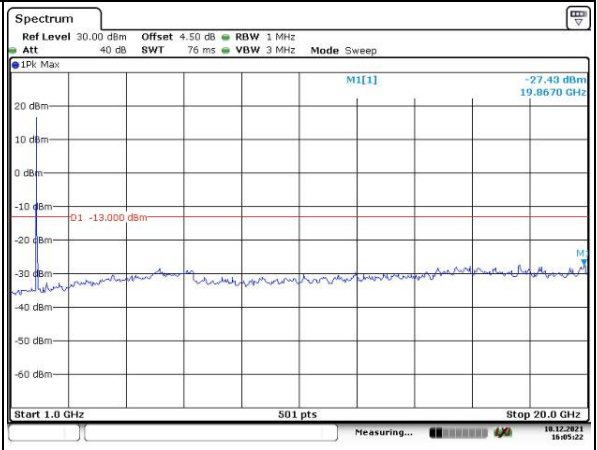
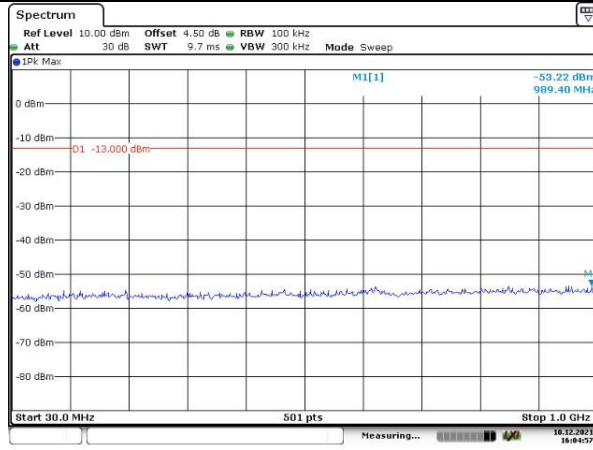


Spurious Emissions at Antenna Terminal

Channel

20MHz Bandwidth QPSK

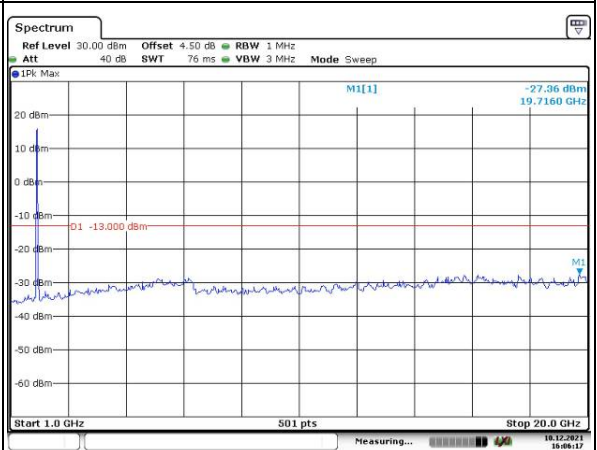
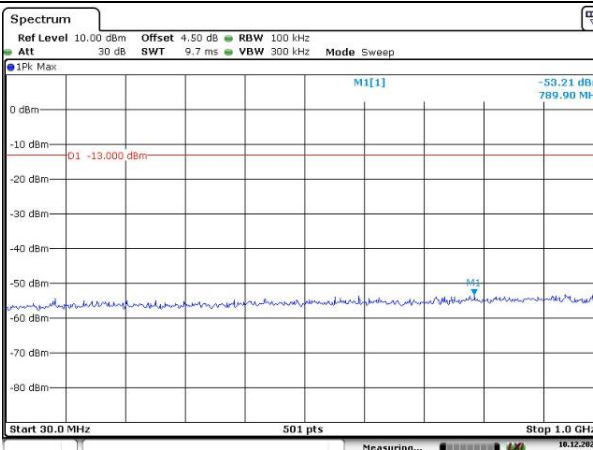
Lowest



Date: 10.DEC.2021 16:04:57

Date: 10.DEC.2021 16:05:22

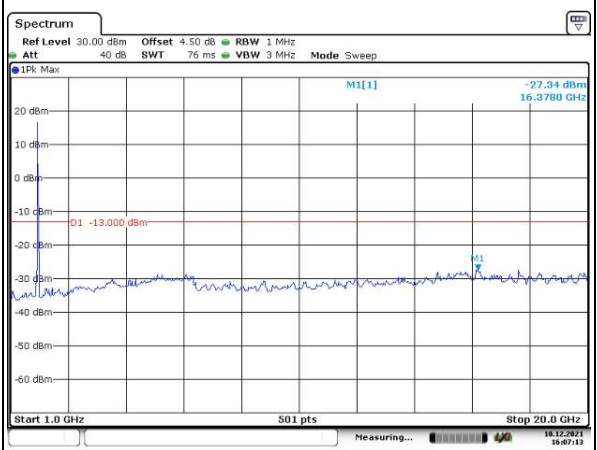
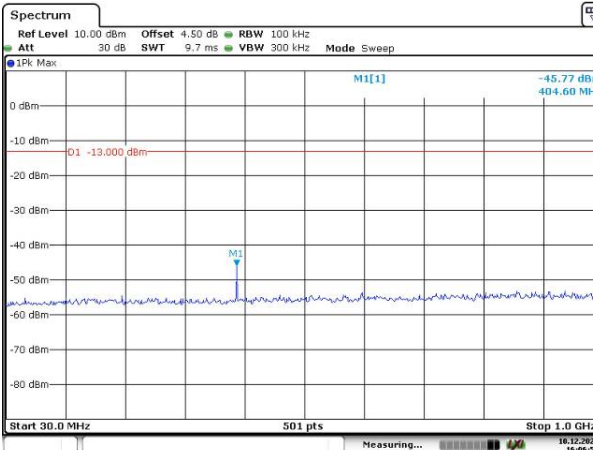
Middle



Date: 10.DEC.2021 16:05:55

Date: 10.DEC.2021 16:06:17

Highest



Date: 10.DEC.2021 16:06:53

Date: 10.DEC.2021 16:07:13

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -21.62 dBm 1.84999400 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 3.0 MHz Date: 14.DEC.2021 17:18:39</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -19.60 dBm 1.91008980 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 3.0 MHz Date: 14.DEC.2021 17:19:16</p>
QPSK 3MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -15.51 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 6.0 MHz Date: 14.DEC.2021 17:20:04</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -15.15 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 6.0 MHz Date: 14.DEC.2021 17:20:54</p>
QPSK 5MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 10 ms VBW 300 kHz Mode Sweep 1Fm Max M1[1] -16.72 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 10.0 MHz Date: 18.DEC.2021 10:15:42</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 10 ms VBW 300 kHz Mode Sweep 1Fm Max M1[1] -17.79 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 10.0 MHz Date: 18.DEC.2021 10:17:15</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -21.81 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 20.0 MHz Date: 14.DEC.2021 17:23:54</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -23.60 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 20.0 MHz Date: 14.DEC.2021 17:25:02</p>
QPSK 15MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -16.39 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 30.0 MHz Date: 14.DEC.2021 17:26:16</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -16.16 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 30.0 MHz Date: 14.DEC.2021 17:27:10</p>
QPSK 20MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -23.26 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 40.0 MHz Date: 14.DEC.2021 17:28:20</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -20.93 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 40.0 MHz Date: 14.DEC.2021 17:29:27</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -24.57 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 20.0 MHz Date: 14.DEC.2021 17:24:27</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -24.23 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 20.0 MHz Date: 14.DEC.2021 17:25:42</p>
16QAM 15MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -18.35 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 30.0 MHz Date: 14.DEC.2021 17:26:43</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -16.51 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 30.0 MHz Date: 14.DEC.2021 17:27:43</p>
16QAM 20MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -18.15 dBm 1.8499420 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 40.0 MHz Date: 18.DEC.2021 10:34:14</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -19.28 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 40.0 MHz Date: 14.DEC.2021 17:30:03</p>

4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	CR21110023-RF-S1	Test Date:	2021-11-29~2022-01-06
Test Site:	RF	Test Mode:	Transmitting
Tester:	Wolf Mo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	22.1~25.9	Relative Humidity: (%)	60~66	ATM Pressure: (kPa)	101.2~101.4
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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
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 4▲:

Antenna Gain (dBi):	0.47	Cable Loss (dB):	0
Operation Voltage(V _{DC}):			
Lowest:	3.5	Normal:	3.7
		Highest:	4.2

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

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	20.56	20.56	20.76	21.25	30
	RB1#3	20.60	20.48	20.70		
	RB1#5	20.55	20.58	20.78		
	RB3#0	20.62	20.76	20.65		
	RB3#3	20.63	20.77	20.67		
	RB6#0	19.47	19.76	19.57		
1.4MHz 16QAM	RB1#0	20.21	19.39	20.58	21.13	30
	RB1#3	20.24	19.46	20.66		
	RB1#5	20.25	19.46	20.62		
	RB3#0	19.66	19.85	19.82		
	RB3#3	19.70	19.83	19.89		
	RB6#0	19.17	18.95	18.71		
3MHz QPSK	RB1#0	20.55	20.66	20.68	21.25	30
	RB1#8	20.56	20.67	20.75		
	RB1#14	20.50	20.64	20.78		
	RB6#0	19.47	19.72	19.55		
	RB6#9	19.58	19.69	19.71		
	RB15#0	19.56	19.69	19.72		
3MHz 16QAM	RB1#0	20.01	20.38	19.76	20.9	30
	RB1#8	19.97	20.43	19.70		
	RB1#14	19.96	20.43	19.80		
	RB6#0	18.90	18.76	18.94		
	RB6#9	18.87	18.85	18.99		
	RB15#0	19.04	18.70	18.71		
5MHz QPSK	RB1#0	20.65	20.75	20.53	21.22	30
	RB1#13	20.51	20.74	20.49		
	RB1#24	20.57	20.75	20.53		
	RB15#0	19.53	19.59	19.78		
	RB15#10	19.64	19.69	19.69		
	RB25#0	19.54	19.62	19.74		
5MHz 16QAM	RB1#0	18.78	19.83	19.24	20.37	30
	RB1#13	18.80	19.90	19.32		
	RB1#24	18.80	19.80	19.34		
	RB15#0	19.06	18.69	18.77		
	RB15#10	19.07	18.68	18.73		
	RB25#0	19.06	18.73	18.62		
10MHz QPSK	RB1#0	20.57	20.68	20.80	21.31	30

	RB1#25	20.50	20.67	20.84		
	RB1#49	20.59	20.72	20.82		
	RB25#0	19.47	19.63	19.75		
	RB25#25	19.66	19.72	19.71		
	RB50#0	19.65	19.76	19.62		
10MHz 16QAM	RB1#0	19.83	19.77	19.20	20.31	30
	RB1#25	19.81	19.82	19.28		
	RB1#49	19.81	19.84	19.26		
	RB25#0	19.04	18.80	18.82		
	RB25#25	19.06	19.07	18.72		
	RB50#0	19.00	18.76	18.91		
15MHz QPSK	RB1#0	20.56	20.56	20.72	21.27	30
	RB1#38	20.58	20.65	20.78		
	RB1#74	20.55	20.72	20.80		
	RB36#0	19.60	19.69	19.70		
	RB36#39	19.71	19.73	19.68		
	RB75#0	19.54	19.64	19.58		
15MHz 16QAM	RB1#0	19.80	19.78	19.95	20.53	30
	RB1#38	19.80	19.81	20.00		
	RB1#74	19.81	19.78	20.06		
	RB36#0	19.03	19.09	18.75		
	RB36#39	18.88	18.88	18.77		
	RB75#0	19.07	18.76	18.72		
20MHz QPSK	RB1#0	20.77	20.54	20.57	21.27	30
	RB1#50	20.70	20.66	20.73		
	RB1#99	20.80	20.73	20.80		
	RB50#0	19.64	19.56	19.50		
	RB50#50	19.68	19.68	19.67		
	RB100#0	19.57	19.68	19.70		
20MHz 16QAM	RB1#0	19.49	20.05	20.16	20.78	30
	RB1#50	19.59	20.08	20.19		
	RB1#99	19.72	20.15	20.31		
	RB50#0	19.08	18.83	18.63		
	RB50#50	18.83	18.82	18.85		
	RB100#0	18.73	18.66	18.67		

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	5.36	5.01	5.28	13
	RB100#0	5.36	5.10	5.36	13
20MHz 16QAM	RB1#0	6.14	6.12	6.09	13
	RB100#0	6.29	5.97	6.26	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	1.102	1.102	1.260	1.260	1.260
1.4MHz 16QAM	1.102	1.102	1.096	1.260	1.260	1.254
3MHz QPSK	2.695	2.695	2.695	3.000	2.988	3.024
3MHz 16QAM	2.695	2.683	2.683	3.012	3.000	3.024
5MHz QPSK	4.531	4.511	4.511	5.000	5.000	4.980
5MHz 16QAM	4.511	4.531	4.511	5.000	5.020	5.040
10MHz QPSK	8.982	8.902	8.942	9.800	9.720	9.800
10MHz 16QAM	8.982	8.982	8.942	9.760	9.840	9.840
15MHz QPSK	13.533	13.473	13.533	15.060	15.000	15.120
15MHz 16QAM	13.533	13.533	13.533	15.060	15.060	15.060
20MHz QPSK	18.044	17.964	17.964	19.760	19.520	19.680
20MHz 16QAM	18.044	18.044	18.044	19.760	19.760	19.840

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.

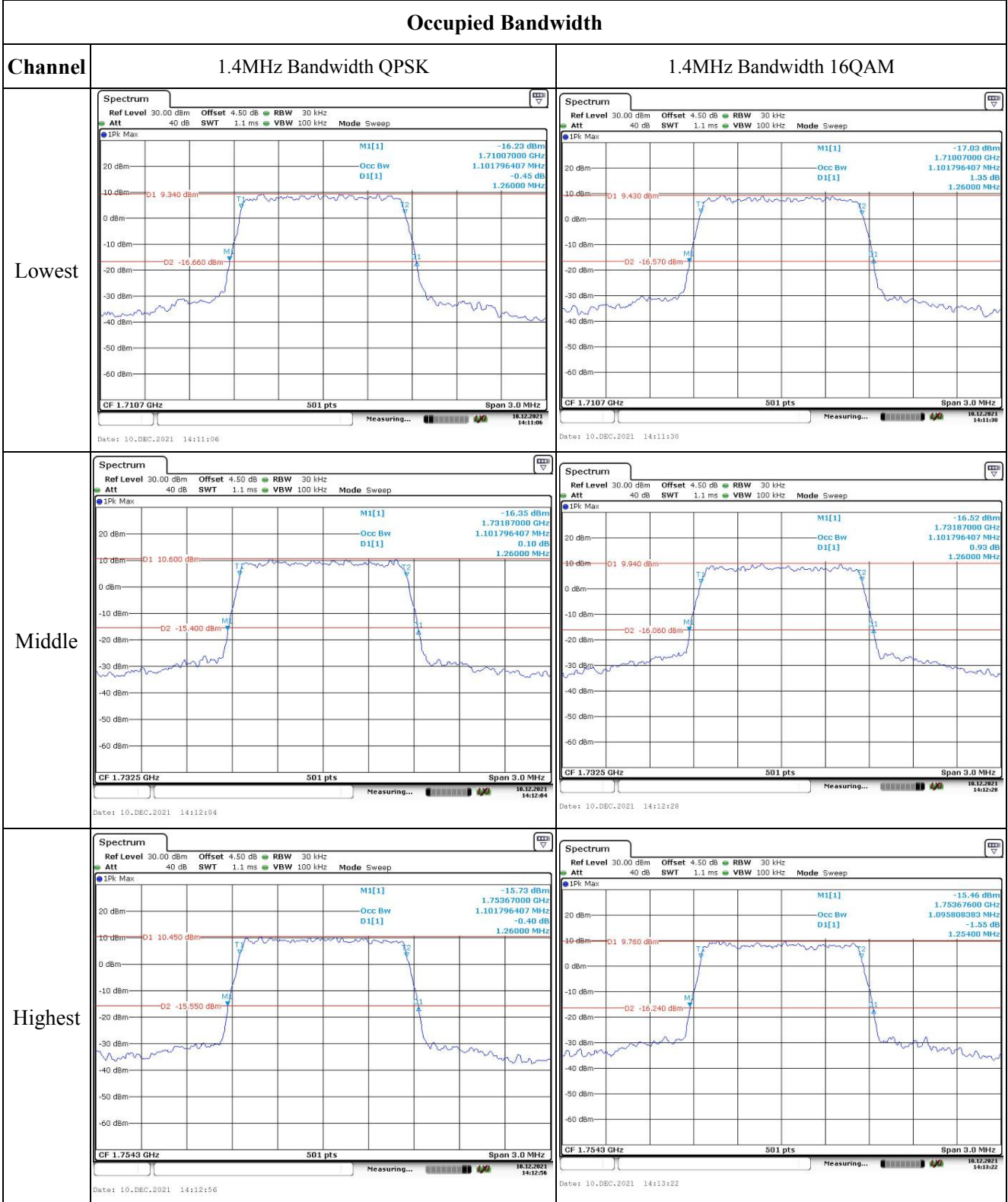
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.7	1710.529	1710.00	1754.471	1755
	-20	3.7	1710.529	1710.00	1754.472	1755
	-10	3.7	1710.526	1710.00	1754.473	1755
	0	3.7	1710.529	1710.00	1754.471	1755
	10	3.7	1710.525	1710.00	1754.470	1755
	20	3.7	1710.529	1710.00	1754.471	1755
	30	3.7	1710.529	1710.00	1754.472	1755
	40	3.7	1710.521	1710.00	1754.474	1755
	50	3.7	1710.529	1710.00	1754.471	1755
Frequency Stability vs. Voltage	20	3.5	1710.520	1710.00	1754.471	1755
	20	4.2	1710.525	1710.00	1754.470	1755
					Result:	Pass

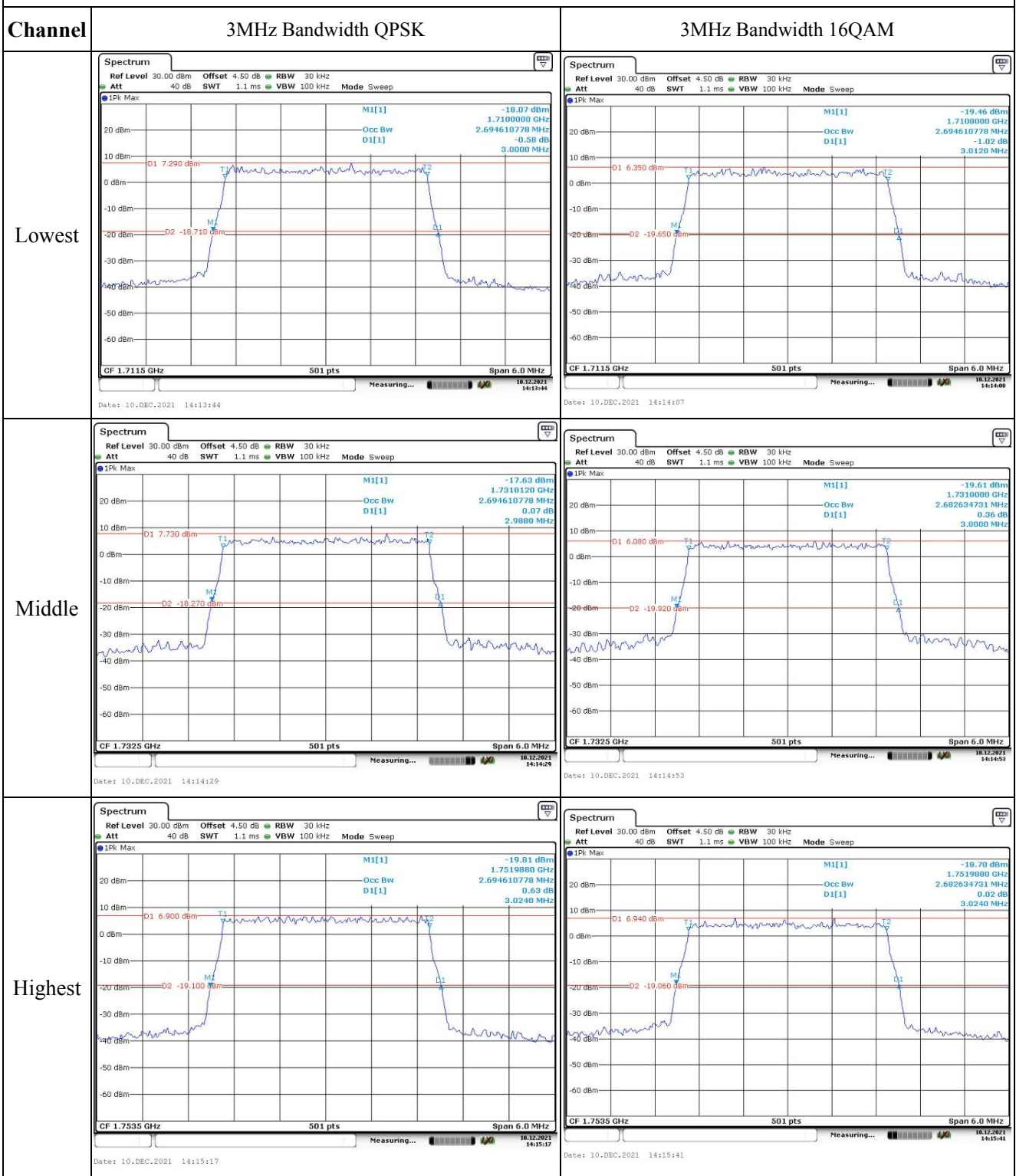
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.7	1710.529	1710.00	1754.511	1755
	-20	3.7	1710.524	1710.00	1754.510	1755
	-10	3.7	1710.525	1710.00	1754.512	1755
	0	3.7	1710.529	1710.00	1754.514	1755
	10	3.7	1710.523	1710.00	1754.511	1755
	20	3.7	1710.529	1710.00	1754.511	1755
	30	3.7	1710.521	1710.00	1754.512	1755
	40	3.7	1710.525	1710.00	1754.513	1755
	50	3.7	1710.524	1710.00	1754.511	1755
Frequency Stability vs. Voltage	20	3.5	1710.529	1710.00	1754.514	1755
	20	4.2	1710.524	1710.00	1754.511	1755
					Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -16.43 dBm 1.7100000 GHz Occ Bw 4.530938124 MHz D1[1] 1.67 dB 5.0000 MHz</p> <p>D1 9.310 dBm D2 -16.690 dBm</p> <p>CF 1.7125 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:16:18</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -17.29 dBm 1.7100000 GHz Occ Bw 4.510978044 MHz D1[1] 0.29 dB 5.0000 MHz</p> <p>D1 9.040 dBm D2 -16.960 dBm</p> <p>CF 1.7125 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:16:54</p>
Middle	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -16.53 dBm 1.7300000 GHz Occ Bw 4.510978044 MHz D1[1] 1.67 dB 5.0000 MHz</p> <p>D1 9.570 dBm D2 -16.430 dBm</p> <p>CF 1.7325 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:17:25</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -18.15 dBm 1.7300000 GHz Occ Bw 4.510978044 MHz D1[1] 1.28 dB 5.0200 MHz</p> <p>D1 8.580 dBm D2 -17.420 dBm</p> <p>CF 1.7325 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:17:52</p>
Highest	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -15.09 dBm 1.7500000 GHz Occ Bw 4.510978044 MHz D1[1] 0.53 dB 4.9800 MHz</p> <p>D1 10.700 dBm D2 -15.300 dBm</p> <p>CF 1.7525 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:18:19</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -18.16 dBm 1.7499800 GHz Occ Bw 4.510978044 MHz D1[1] -0.04 dB 5.0400 MHz</p> <p>D1 8.880 dBm D2 -17.120 dBm</p> <p>CF 1.7525 GHz 501 pts Span 10.0 MHz</p> <p>Date: 10.DEC.2021 14:18:43</p>