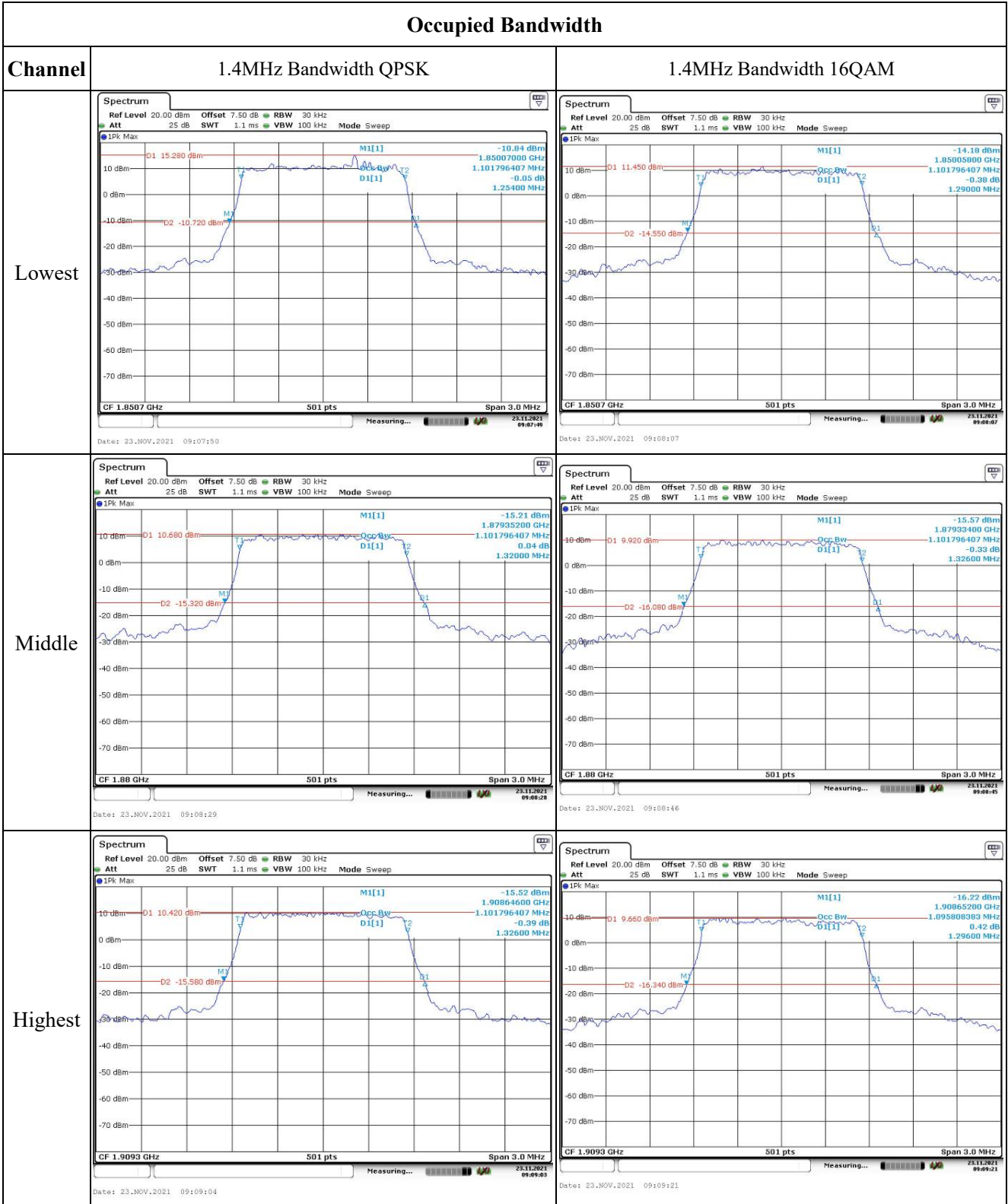


Test Plots:

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</p> <p>1Pk Max</p> <p>D1 15.190 dBm M1[1] -10.83 dBm 1.850960 GHz 2.670658683 MHz 0.13 dB 2.8800 MHz</p> <p>CF 1.8515 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:09:46</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</p> <p>1Pk Max</p> <p>D1 7.700 dBm M1[1] -18.300 dBm 1.850060 GHz 2.682634731 MHz 0.56 dB 2.8800 MHz</p> <p>CF 1.8515 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:10:10</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</p> <p>1Pk Max</p> <p>D1 8.080 dBm M1[1] -17.44 dBm 1.8785600 GHz 2.682634731 MHz -0.70 dB 2.8800 MHz</p> <p>CF 1.88 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:10:28</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</p> <p>1Pk Max</p> <p>D1 6.590 dBm M1[1] -19.410 dBm 1.8785480 GHz 2.682634731 MHz -0.02 dB 2.8920 MHz</p> <p>CF 1.88 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:10:45</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</p> <p>1Pk Max</p> <p>D1 7.180 dBm M1[1] -19.60 dBm 1.9070480 GHz 2.682634731 MHz 1.01 dB 2.8920 MHz</p> <p>CF 1.9085 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:11:12</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</p> <p>1Pk Max</p> <p>D1 7.200 dBm M1[1] -18.67 dBm 1.9070600 GHz 2.682634731 MHz -1.11 dB 2.8800 MHz</p> <p>CF 1.9085 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 09:11:33</p>

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

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

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>15MHz Bandwidth QPSK</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</p> <p>1Pk Max</p> <p>M1[1] -13.33 dBm 1.8499400 GHz D1[1] -0.93 dB 13.592814371 MHz D2 -13.500 dBm</p> <p>CF 1.8575 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:17:50</p>	<p>15MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -15.40 dBm 1.8499400 GHz D1[1] 0.00 dB 13.532934132 MHz D2 -15.330 dBm</p> <p>CF 1.8575 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:18:20</p>
Middle	<p>15MHz Bandwidth QPSK</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</p> <p>1Pk Max</p> <p>M1[1] -14.56 dBm 1.8715400 GHz D1[1] 0.75 dB 13.592814371 MHz D2 -14.300 dBm</p> <p>CF 1.88 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:19:07</p>	<p>15MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -15.73 dBm 1.8723800 GHz D1[1] 0.38 dB 13.532934132 MHz D2 -15.360 dBm</p> <p>CF 1.88 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:19:31</p>
Highest	<p>15MHz Bandwidth QPSK</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</p> <p>1Pk Max</p> <p>M1[1] -14.92 dBm 1.8947000 GHz D1[1] -1.06 dB 13.532934132 MHz D2 -15.030 dBm</p> <p>CF 1.9025 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:19:55</p>	<p>15MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -15.07 dBm 1.8949400 GHz D1[1] 0.27 dB 13.532934132 MHz D2 -15.870 dBm</p> <p>CF 1.9025 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:20:22</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] -15.19 dBm 1.8501600 GHz Occ Bw 17.964071856 MHz -0.71 dB D1[1] 19.7600 MHz D2 -15.310 dBm CF 1.86 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:20:52</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] -16.11 dBm 1.8502400 GHz Occ Bw 18.043912176 MHz -0.95 dB D1[1] 19.8400 MHz D2 -16.500 dBm CF 1.86 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:21:19</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] -15.90 dBm 1.8701600 GHz Occ Bw 17.964071856 MHz -0.14 dB D1[1] 19.7600 MHz D2 -15.390 dBm CF 1.88 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:21:47</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] -16.01 dBm 1.8906000 GHz Occ Bw 18.123752495 MHz -1.62 dB D1[1] 20.0000 MHz D2 -16.650 dBm CF 1.88 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:22:33</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] -16.83 dBm 1.8900800 GHz Occ Bw 17.964071856 MHz -0.31 dB D1[1] 19.9200 MHz D2 -16.200 dBm CF 1.9 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:22:57</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] -16.14 dBm 1.8903200 GHz Occ Bw 17.884231537 MHz 0.33 dB D1[1] 19.3200 MHz D2 -16.530 dBm CF 1.9 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:23:21</p>

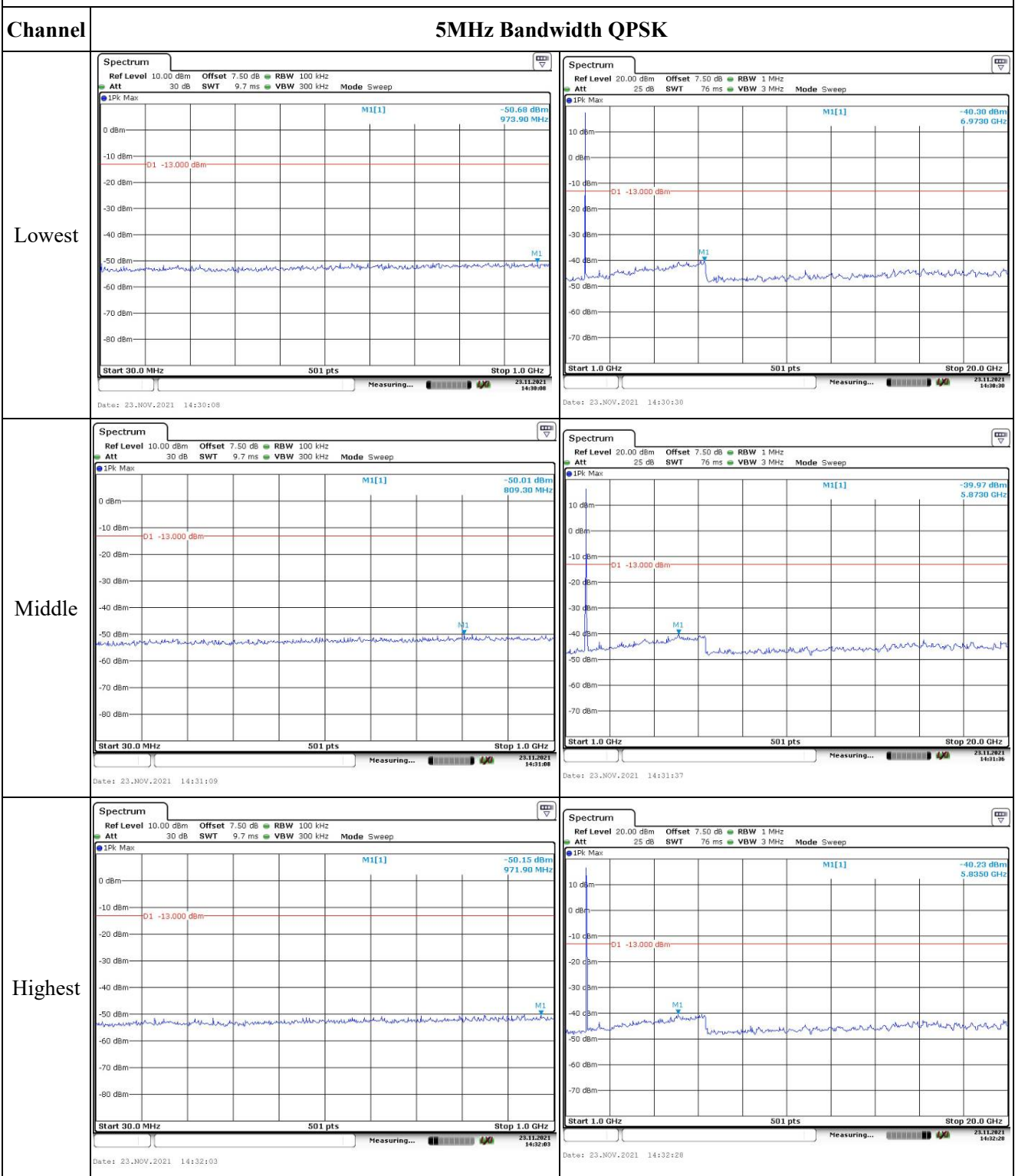
Spurious Emissions at Antenna Terminal

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] -50.26 dBm 848.00 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:24:42</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] -39.09 dBm 1.9290 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:25:07</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] -50.04 dBm 623.40 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:25:37</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] -39.83 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:25:59</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] -50.33 dBm 997.10 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:26:28</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] -40.07 dBm 6.7830 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:26:59</p>

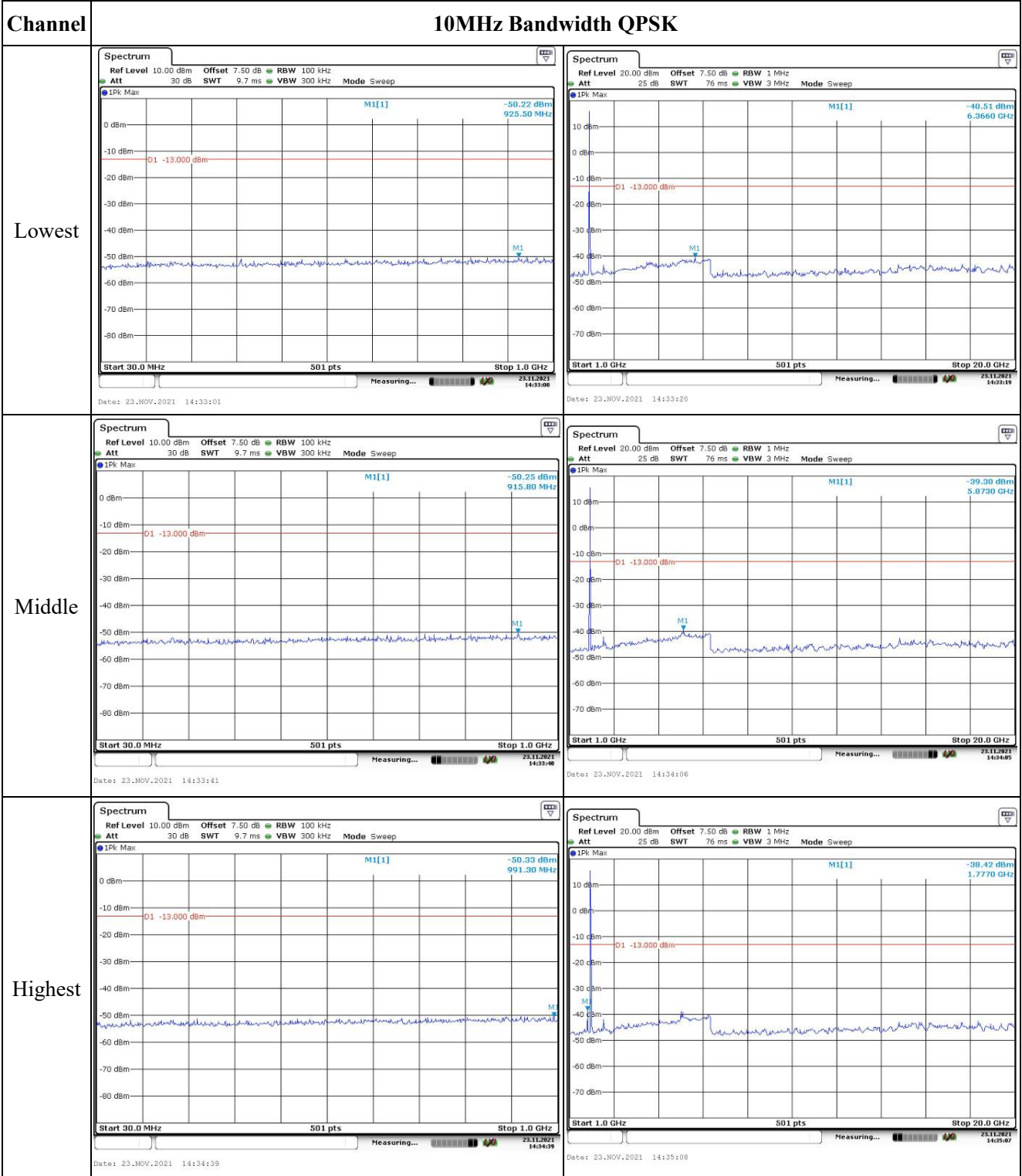
Spurious Emissions at Antenna Terminal

Channel	3MHz 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] -50.33 dBm 902.20 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:27:28</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] -40.17 dBm 6.8590 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:27:50</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] -50.30 dBm 729.90 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:28:19</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 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:28:41</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] -50.36 dBm 760.90 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:29:07</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] -40.80 dBm 5.7220 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:29:35</p>

Spurious Emissions at Antenna Terminal



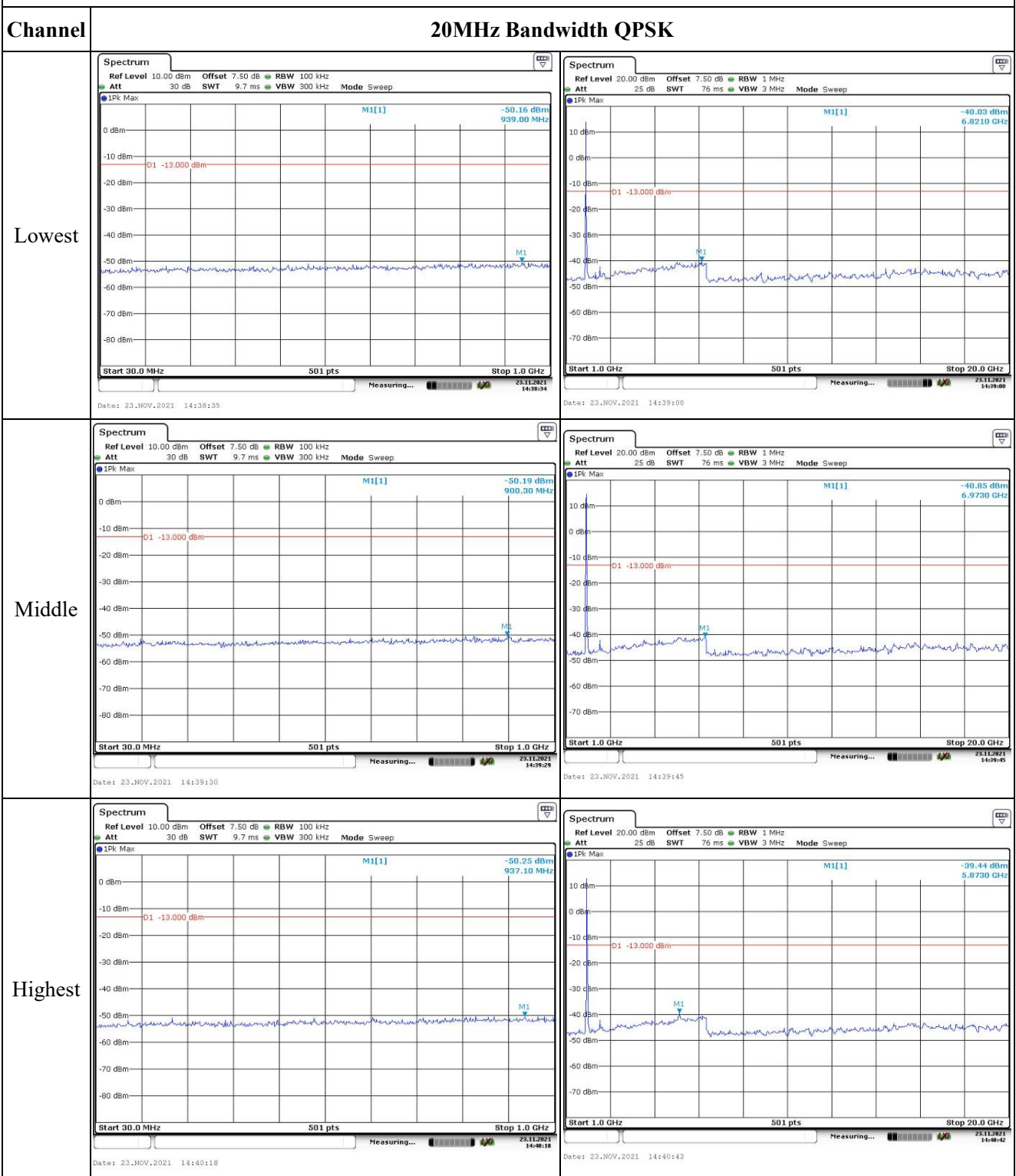
Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal

Channel	15MHz 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] -50.33 dBm 807.40 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:35:41</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] -38.99 dBm 1.7400 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:36:06</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] -50.29 dBm 956.40 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:36:39</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] -39.85 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:37:04</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] -50.09 dBm 958.40 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:37:38</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] -40.55 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:38:03</p>

Spurious Emissions at Antenna Terminal



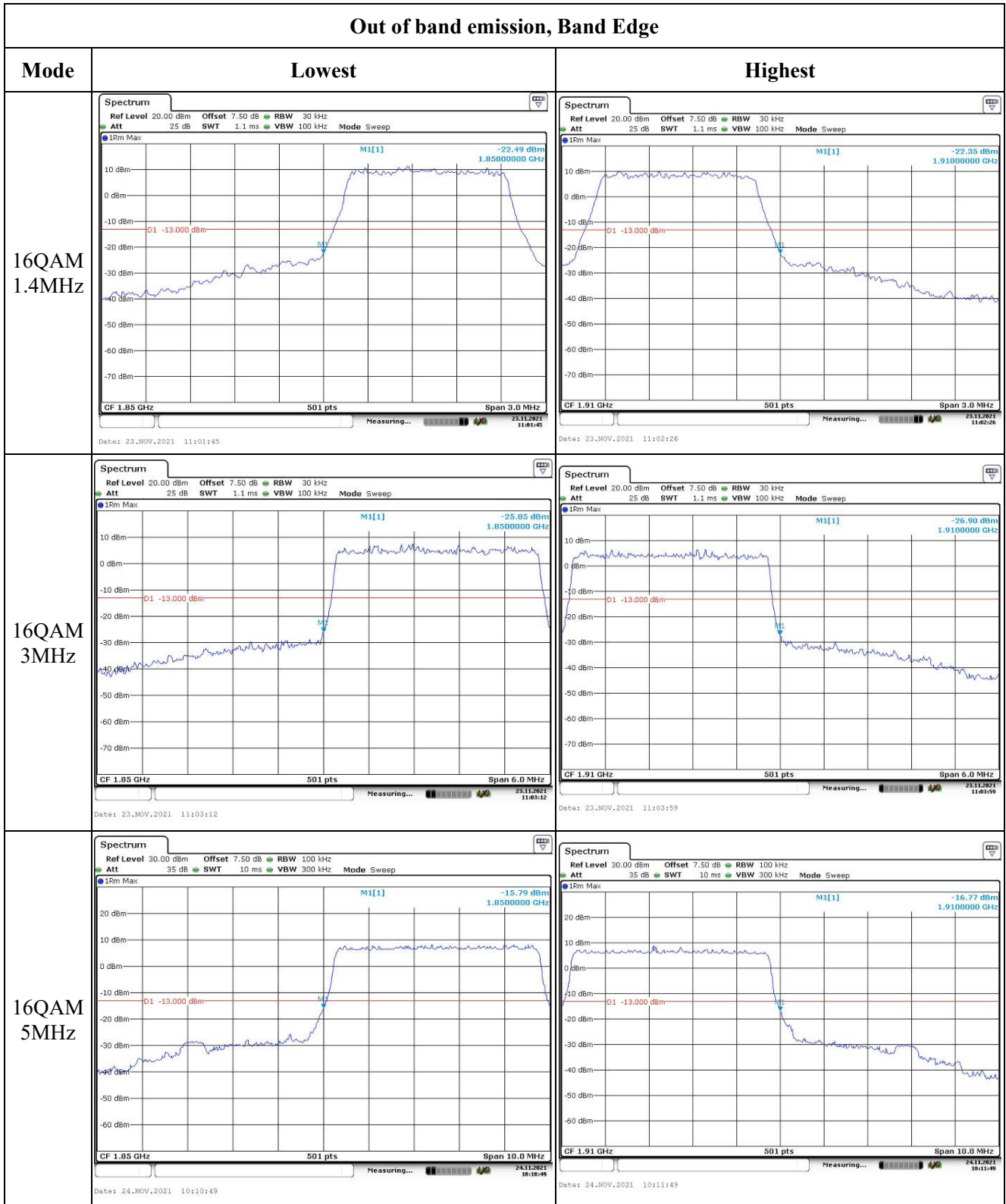
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 15m Max M1[1] -20.98 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 11:01:25</p>	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 15m Max M1[1] -21.14 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 11:02:06</p>
QPSK 3MHz	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 15m Max M1[1] -25.92 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 11:02:52</p>	<p>Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 30 kHz Att 25 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 15m Max M1[1] -27.34 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 11:03:36</p>
QPSK 5MHz	<p>Spectrum Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 10 ms VBW 300 kHz Mode Sweep 15m Max M1[1] -14.71 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 10.0 MHz Date: 24.NOV.2021 10:10:23</p>	<p>Spectrum Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 20 ms VBW 300 kHz Mode Sweep 15m Max M1[1] -18.83 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 10.0 MHz Date: 24.NOV.2021 10:11:19</p>

Out of band emission, Band Edge

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

Out of band emission, Band Edge



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] -21.62 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 11:06:57</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] -21.66 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 11:07:53</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] -16.40 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 11:08:50</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 M1[1] -16.49 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 11:09:59</p>
16QAM 20MHz	<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] -22.85 dBm 1.8500000 GHz D1 -13.000 dBm CF 1.85 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 11:11:03</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 M1[1] -21.69 dBm 1.9100000 GHz D1 -13.000 dBm CF 1.91 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 11:11:59</p>

4.7 Antenna Port Test Data and Results for LTE Band 4

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 4▲:

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	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	18.68	18.63	18.67	19.1	30
	RB1#3	18.87	18.81	18.90		
	RB1#5	18.67	18.66	18.68		
	RB3#0	18.75	18.66	18.69		
	RB3#3	18.73	18.63	18.73		
	RB6#0	17.77	17.72	17.76		
1.4MHz 16QAM	RB1#0	17.66	17.68	17.66	18.96	30
	RB1#3	17.82	17.90	17.77		
	RB1#5	17.64	17.72	17.65		
	RB3#0	17.85	17.63	17.79		
	RB3#3	17.84	17.67	17.74		
	RB6#0	18.76	18.72	18.71		
3MHz QPSK	RB1#0	18.73	18.68	18.74	18.94	30
	RB1#8	18.62	18.66	18.73		
	RB1#14	18.67	18.65	18.73		
	RB6#0	17.67	17.63	17.70		
	RB6#9	17.66	17.63	17.69		
	RB15#0	17.67	17.63	17.70		
3MHz 16QAM	RB1#0	18.21	17.77	17.70	18.95	30
	RB1#8	18.17	17.75	17.65		
	RB1#14	18.18	17.77	17.69		
	RB6#0	18.75	18.70	18.69		
	RB6#9	18.73	18.69	18.67		
	RB15#0	18.70	18.61	18.75		
5MHz QPSK	RB1#0	18.68	18.66	18.66	18.95	30
	RB1#13	18.75	18.70	18.72		
	RB1#24	18.65	18.66	18.68		
	RB15#0	17.61	17.65	17.68		
	RB15#10	17.67	17.65	17.71		
	RB25#0	17.62	17.63	17.66		
5MHz 16QAM	RB1#0	17.51	17.88	17.73	18.13	30
	RB1#13	17.59	17.93	17.76		
	RB1#24	17.52	17.87	17.70		
	RB15#0	17.66	17.64	17.70		
	RB15#10	17.73	17.65	17.72		
	RB25#0	17.67	17.63	17.68		
10MHz QPSK	RB1#0	18.69	18.66	18.70	19.02	30

	RB1#25	18.80	18.81	18.82		
	RB1#49	18.68	18.64	18.72		
	RB25#0	17.62	17.68	17.62		
	RB25#25	17.61	17.67	17.73		
	RB50#0	17.59	17.69	17.66		
10MHz 16QAM	RB1#0	18.20	17.75	17.66	18.54	30
	RB1#25	18.34	17.94	17.83		
	RB1#49	18.23	17.71	17.65		
	RB25#0	17.68	17.72	17.69		
	RB25#25	17.65	17.66	17.82		
	RB50#0	17.63	17.70	17.70		
15MHz QPSK	RB1#0	18.64	18.63	18.62	18.94	30
	RB1#38	18.68	18.72	18.74		
	RB1#74	18.63	18.67	18.69		
	RB36#0	17.67	17.72	17.68		
	RB36#39	17.68	17.72	17.79		
	RB75#0	17.67	17.71	17.76		
15MHz 16QAM	RB1#0	18.14	17.74	18.00	18.42	30
	RB1#38	18.22	17.83	18.05		
	RB1#74	18.20	17.72	18.01		
	RB36#0	17.72	17.76	17.69		
	RB36#39	17.71	17.78	17.75		
	RB75#0	17.67	17.74	17.71		
20MHz QPSK	RB1#0	18.49	18.52	18.39	19.09	30
	RB1#50	18.88	18.89	18.82		
	RB1#99	18.52	18.56	18.50		
	RB50#0	17.67	17.80	17.66		
	RB50#50	17.60	17.73	17.79		
	RB100#0	17.67	17.75	17.73		
20MHz 16QAM	RB1#0	17.76	17.67	17.90	18.56	30
	RB1#50	18.12	18.04	18.36		
	RB1#99	17.77	17.70	18.00		
	RB50#0	17.69	17.81	17.61		
	RB50#50	17.63	17.74	17.75		
	RB100#0	17.71	17.77	17.74		
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	4.26	5.45	4.93	13
	RB100#0	4.75	5.33	4.75	13
20MHz 16QAM	RB1#0	5.07	5.94	6.29	13
	RB100#0	5.57	6.32	5.65	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	1.108	1.332	1.338	1.32
1.4MHz 16QAM	1.102	1.096	1.102	1.332	1.296	1.32
3MHz QPSK	2.695	2.695	2.683	2.88	2.88	2.904
3MHz 16QAM	2.683	2.683	2.683	2.892	2.88	2.88
5MHz QPSK	4.531	4.511	4.531	5.22	5.14	5.24
5MHz 16QAM	4.531	4.551	4.551	5.18	5.14	5.32
10MHz QPSK	8.981	8.942	8.942	9.96	9.92	9.92
10MHz 16QAM	8.981	8.942	8.942	9.76	9.84	9.96
15MHz QPSK	13.473	13.533	13.593	15.12	15.3	15.42
15MHz 16QAM	13.473	13.533	13.593	15.06	15.18	15.24
20MHz QPSK	17.884	17.964	17.964	19.6	19.76	20
20MHz 16QAM	17.964	18.044	18.044	19.68	20	20.56

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.

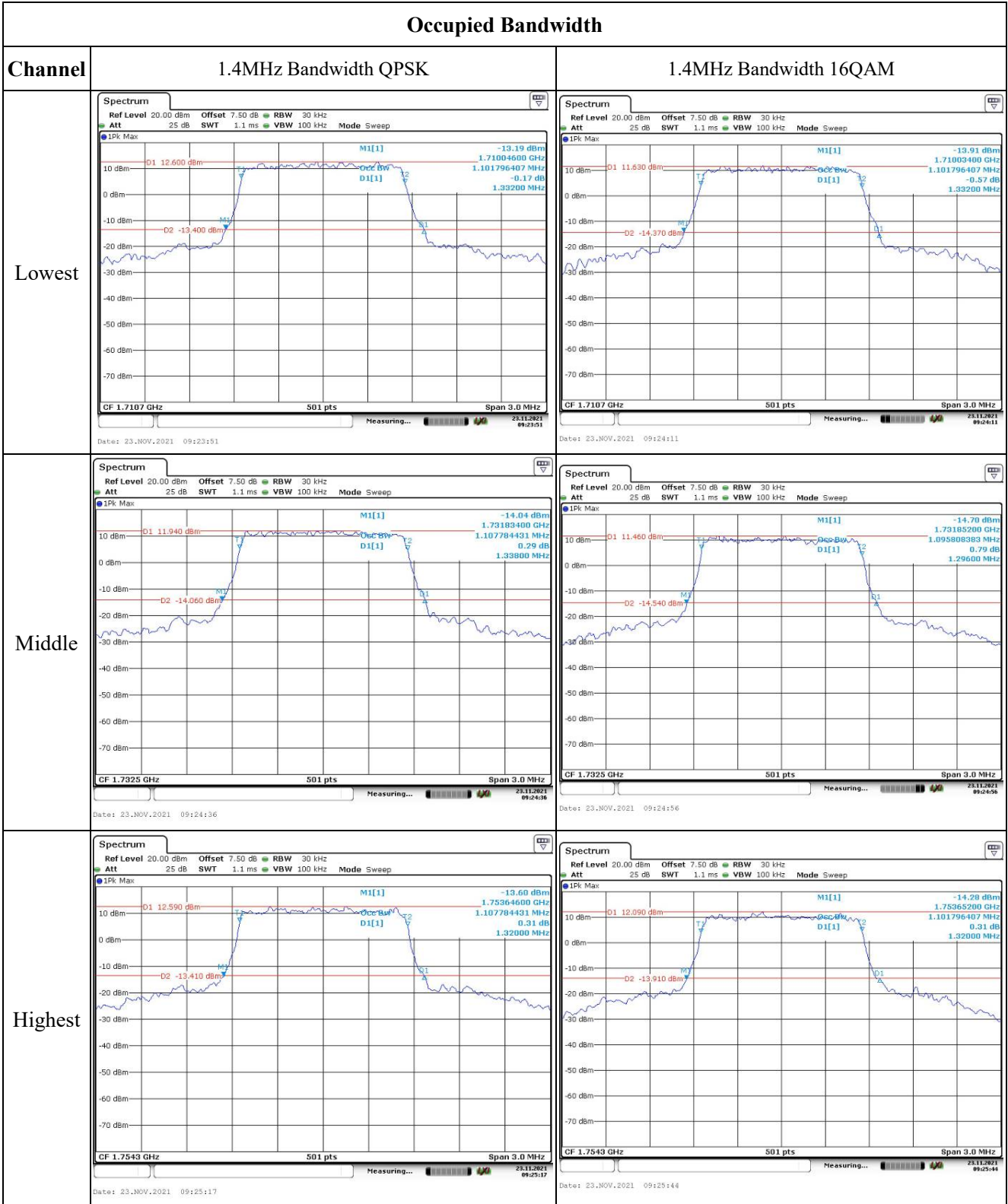
FCC §2.1055, §27.54: Frequency Stability

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	3.85	1710.513	1710.00	1754.485	1755
	-20	3.85	1710.514	1710.00	1754.484	1755
	-10	3.85	1710.513	1710.00	1754.486	1755
	0	3.85	1710.515	1710.00	1754.485	1755
	10	3.85	1710.513	1710.00	1754.484	1755
	20	3.85	1710.514	1710.00	1754.486	1755
	30	3.85	1710.514	1710.00	1754.484	1755
	40	3.85	1710.513	1710.00	1754.476	1755
	50	3.85	1710.515	1710.00	1754.483	1755
Frequency Stability vs. Voltage	20	3.6	1710.514	1710.00	1754.487	1755
	20	4.35	1710.514	1710.00	1754.487	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	3.85	1710.544	1710.00	1754.487	1755
	-20	3.85	1710.544	1710.00	1754.485	1755
	-10	3.85	1710.543	1710.00	1754.484	1755
	0	3.85	1710.542	1710.00	1754.486	1755
	10	3.85	1710.542	1710.00	1754.487	1755
	20	3.85	1710.543	1710.00	1754.486	1755
	30	3.85	1710.544	1710.00	1754.485	1755
	40	3.85	1710.543	1710.00	1754.487	1755
	50	3.85	1710.542	1710.00	1754.485	1755
Frequency Stability vs. Voltage	20	3.6	1710.544	1710.00	1754.485	1755
	20	4.35	1710.546	1710.00	1754.486	1755
					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] -15.94 dBm 1.7100600 GHz 2.694610770 MHz 1.28 dB 2.8800 MHz D1 10.830 dBm D2 -15.170 dBm CF 1.7115 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:26:07</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] -17.77 dBm 1.7100600 GHz 2.670658663 MHz 1.24 dB 2.8920 MHz D1 8.950 dBm D2 -17.950 dBm CF 1.7115 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:26:31</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] -16.38 dBm 1.7310600 GHz 2.694610770 MHz 0.23 dB 2.8800 MHz D1 9.780 dBm D2 -16.220 dBm CF 1.7325 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:26:55</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] -17.79 dBm 1.7310480 GHz 2.682634731 MHz 0.72 dB 2.8800 MHz D1 8.640 dBm D2 -17.360 dBm CF 1.7325 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:27:28</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] -17.71 dBm 1.7520480 GHz 2.682634731 MHz 0.32 dB 2.9040 MHz D1 8.610 dBm D2 -17.390 dBm CF 1.7535 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:27:46</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] -16.80 dBm 1.7520600 GHz 2.682634731 MHz -0.28 dB 2.8800 MHz D1 8.870 dBm D2 -17.130 dBm CF 1.7535 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 09:28:07</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 M1[1] -13.57 dBm 1.7099200 GHz D1[1] -0.20 dB 4.530938124 MHz D2 -13.57 dBm 5.2200 MHz CF 1.7125 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:28:36</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 M1[1] -14.30 dBm 1.7099200 GHz D1[1] -0.04 dB 4.550898204 MHz D2 -14.170 dBm 5.1800 MHz CF 1.7125 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:29:03</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 M1[1] -14.41 dBm 1.7299400 GHz D1[1] 0.55 dB 4.510978004 MHz D2 -14.150 dBm 5.1400 MHz CF 1.7325 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:29:31</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 M1[1] -14.93 dBm 1.7299400 GHz D1[1] 0.97 dB 4.550898204 MHz D2 -14.780 dBm 5.1400 MHz CF 1.7325 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:29:54</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 M1[1] -14.43 dBm 1.7499000 GHz D1[1] 0.45 dB 4.530938124 MHz D2 -14.050 dBm 5.2400 MHz CF 1.7525 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:30:15</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 M1[1] -15.35 dBm 1.7498800 GHz D1[1] -0.04 dB 4.550898204 MHz D2 -15.430 dBm 5.3200 MHz CF 1.7525 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 09:30:48</p>