

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz 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] -16.65 dBm 1.7100000 GHz Occ Bw 8.982035929 MHz -0.50 dB 9.9600 MHz CF 1.715 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:31:16</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] -16.05 dBm 1.7101200 GHz Occ Bw 8.982035928 MHz -0.46 dB 9.7600 MHz CF 1.715 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:31:47</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] -16.37 dBm 1.7275400 GHz Occ Bw 8.942115768 MHz -0.71 dB 9.9200 MHz CF 1.7325 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:32:19</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] -15.42 dBm 1.7275800 GHz Occ Bw 8.942115768 MHz -1.81 dB 9.8400 MHz CF 1.7325 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:32:53</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] -16.49 dBm 1.7450800 GHz Occ Bw 8.942115768 MHz -0.56 dB 9.9200 MHz CF 1.75 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:33:28</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] -15.05 dBm 1.7450800 GHz Occ Bw 8.942115768 MHz -3.04 dB 9.9600 MHz CF 1.75 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 09:33:55</p>

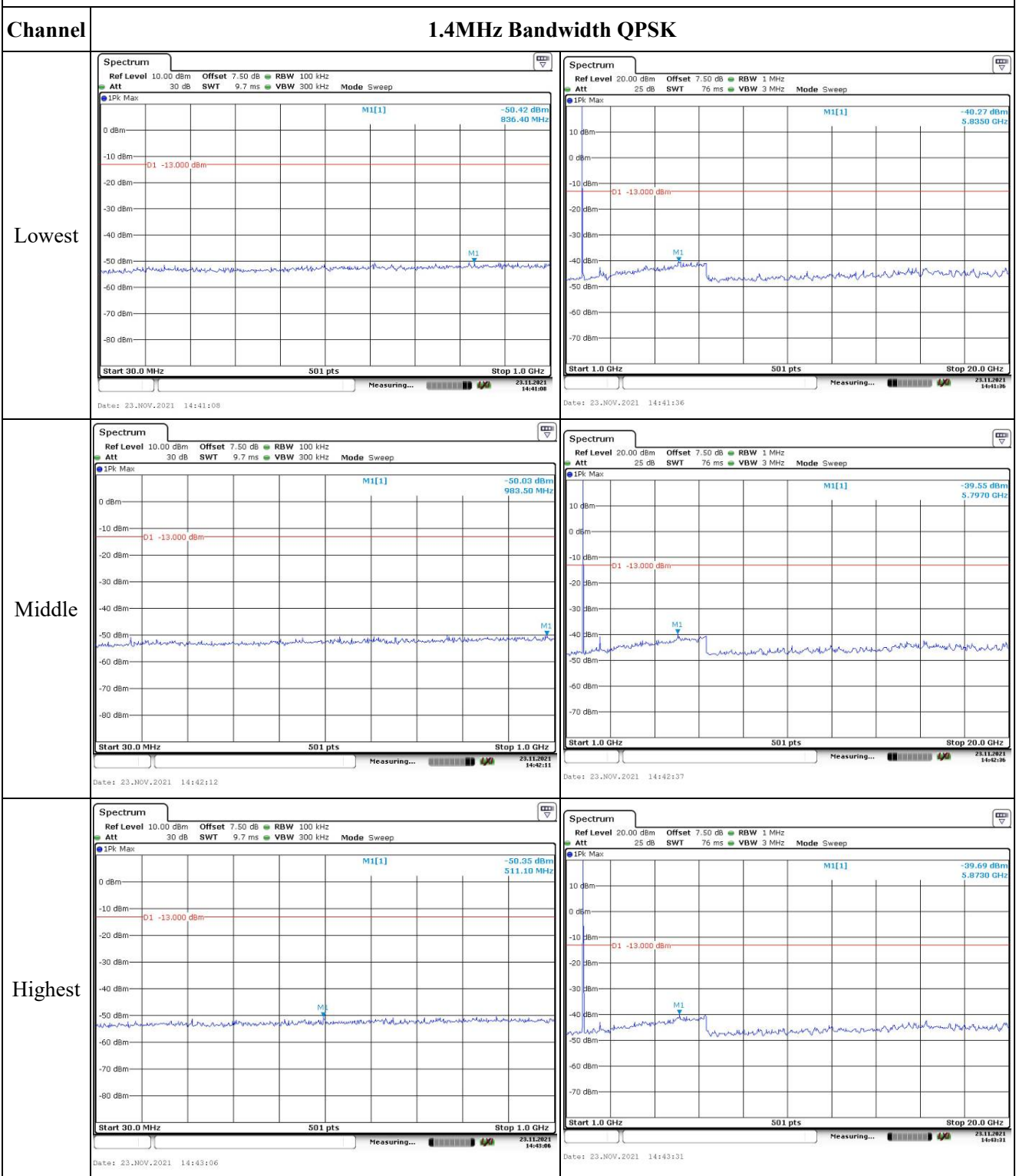
Occupied Bandwidth

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] -12.62 dBm 1.7099400 GHz D1[1] 13.473053892 MHz 0.20 dB D2 -13.070 dBm</p> <p>CF 1.7175 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:34:22</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] -13.60 dBm 1.7100000 GHz D1[1] 13.473053892 MHz -0.88 dB D2 -14.110 dBm</p> <p>CF 1.7175 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:34:49</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] -13.31 dBm 1.7248800 GHz D1[1] 13.532934132 MHz 0.16 dB D2 -12.950 dBm</p> <p>CF 1.7325 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:35:20</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] -14.33 dBm 1.7248800 GHz D1[1] 13.532934132 MHz 0.18 dB D2 -13.970 dBm</p> <p>CF 1.7325 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:35:47</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] -13.56 dBm 1.7398200 GHz D1[1] 13.592814371 MHz -0.61 dB D2 -13.800 dBm</p> <p>CF 1.7475 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:36:18</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] -14.90 dBm 1.7400000 GHz D1[1] 13.592814371 MHz 0.36 dB D2 -14.310 dBm</p> <p>CF 1.7475 GHz 501 pts Span 30.0 MHz</p> <p>Date: 23.NOV.2021 09:36:41</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] -13.97 dBm 1.7101600 GHz D1[1] 17.084231537 MHz -0.32 dB D2 -14.120 dBm CF 1.72 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:37:11</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] -15.45 dBm 1.7102400 GHz D1[1] 17.964071856 MHz 0.21 dB D2 -15.030 dBm CF 1.72 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:37:38</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] -13.61 dBm 1.7226600 GHz D1[1] 17.964071856 MHz 0.14 dB D2 -13.820 dBm CF 1.7325 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:38:03</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 1Pk Max M1[1] -15.09 dBm 1.7225000 GHz D1[1] 18.043912176 MHz -0.29 dB D2 -15.430 dBm CF 1.7325 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:38:27</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] -14.82 dBm 1.7350800 GHz D1[1] 17.964071856 MHz -0.49 dB D2 -14.610 dBm CF 1.745 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:38:51</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] -15.13 dBm 1.7348400 GHz D1[1] 18.043912176 MHz -0.87 dB D2 -15.150 dBm CF 1.745 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 09:39:24</p>

Spurious Emissions at Antenna Terminal



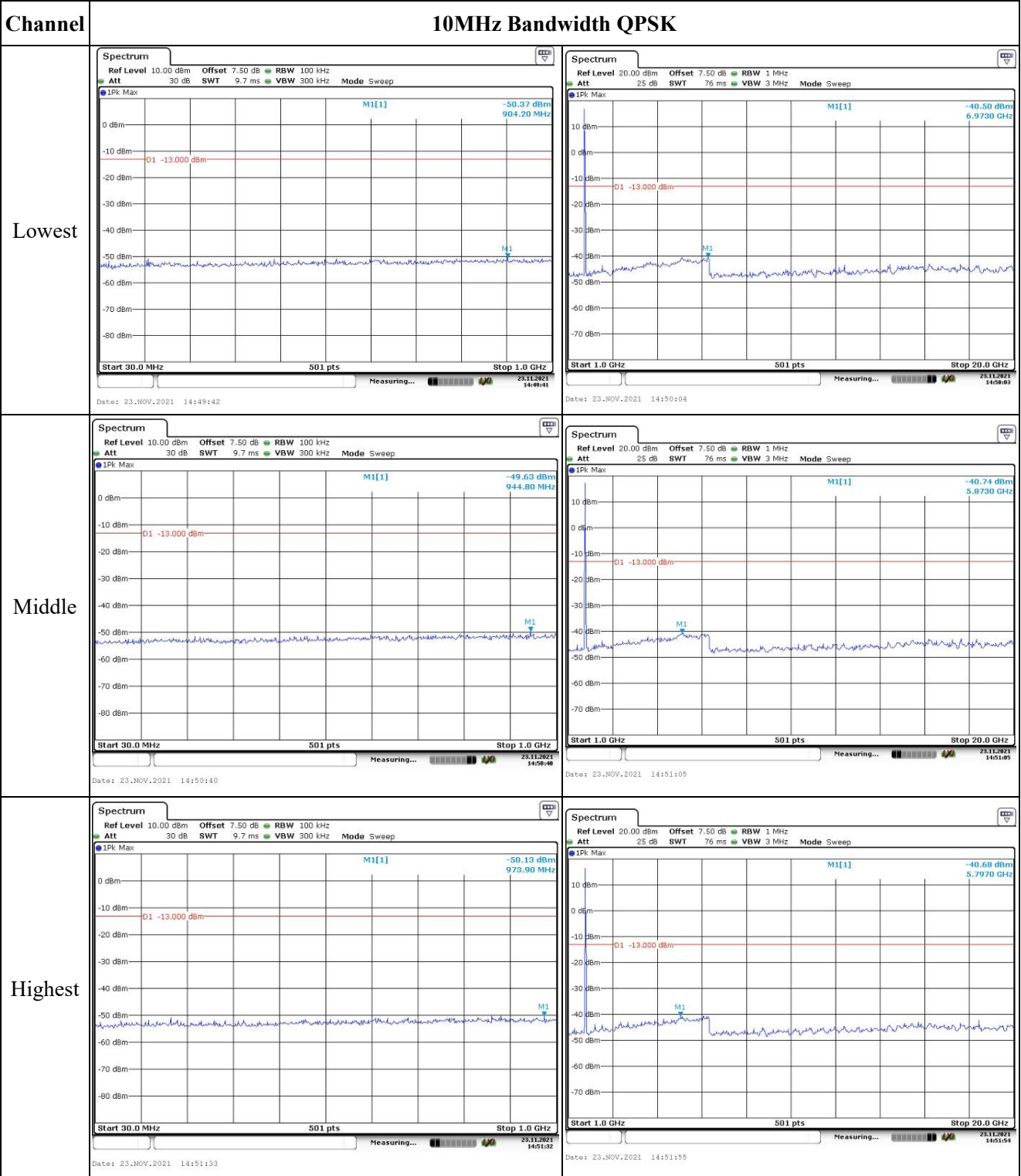
Spurious Emissions at Antenna Terminal

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] -50.23 dBm 515.00 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:44:03</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] -40.08 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:44:20</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] -49.69 dBm 948.70 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:44:57</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] -40.03 dBm 6.9730 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:45:26</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] -50.53 dBm 819.00 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:45:55</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] -39.02 dBm 6.0630 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:46:23</p>

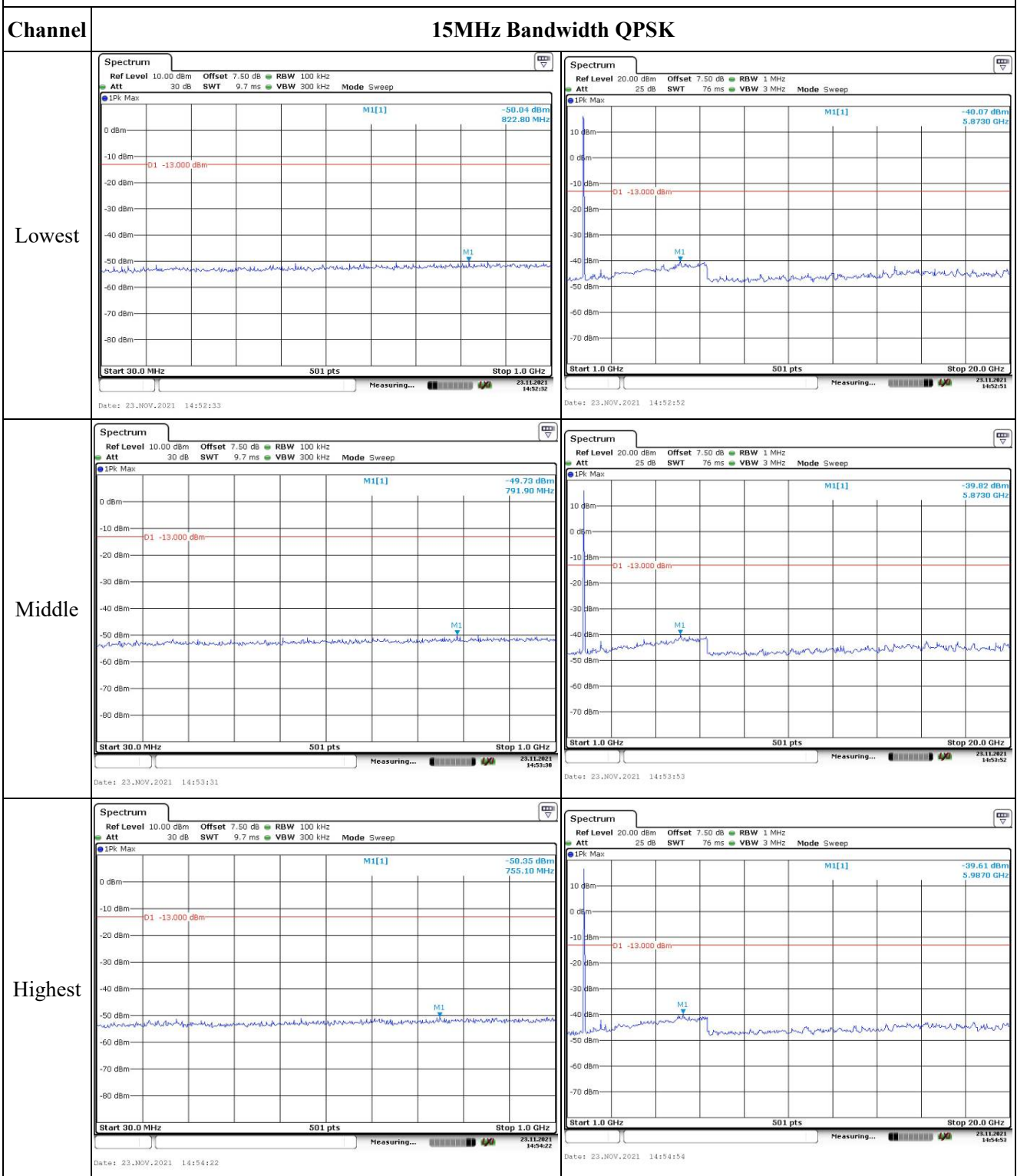
Spurious Emissions at Antenna Terminal

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] -49.78 dBm 853.80 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:46:55</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] -39.91 dBm 6.7460 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:47:13</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] -50.35 dBm 875.10 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:47:46</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] -39.01 dBm 6.8590 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:48:08</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] -50.54 dBm 799.60 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 23.NOV.2021 14:48:34</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] -39.63 dBm 6.8210 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 23.NOV.2021 14:49:02</p>

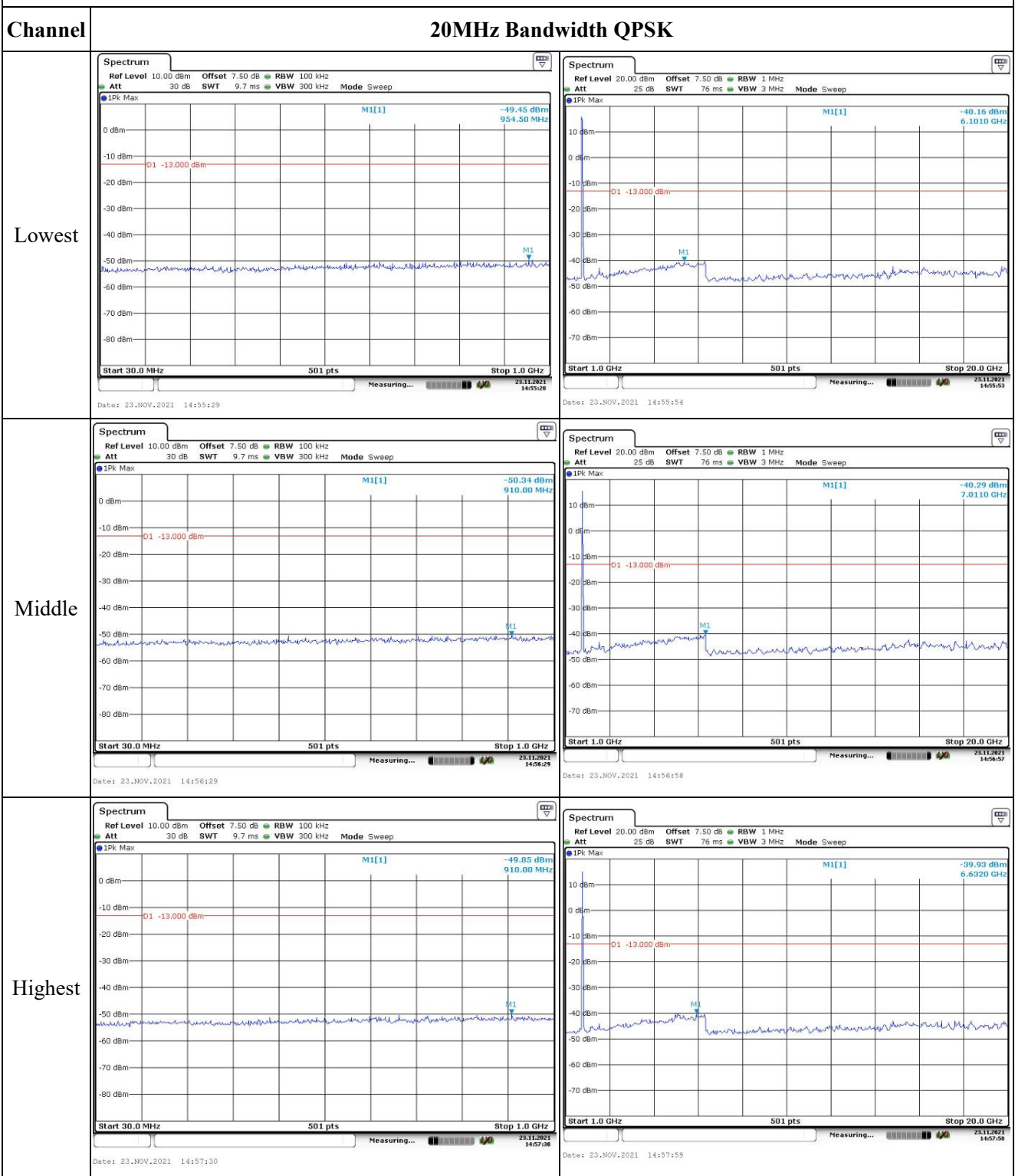
Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal



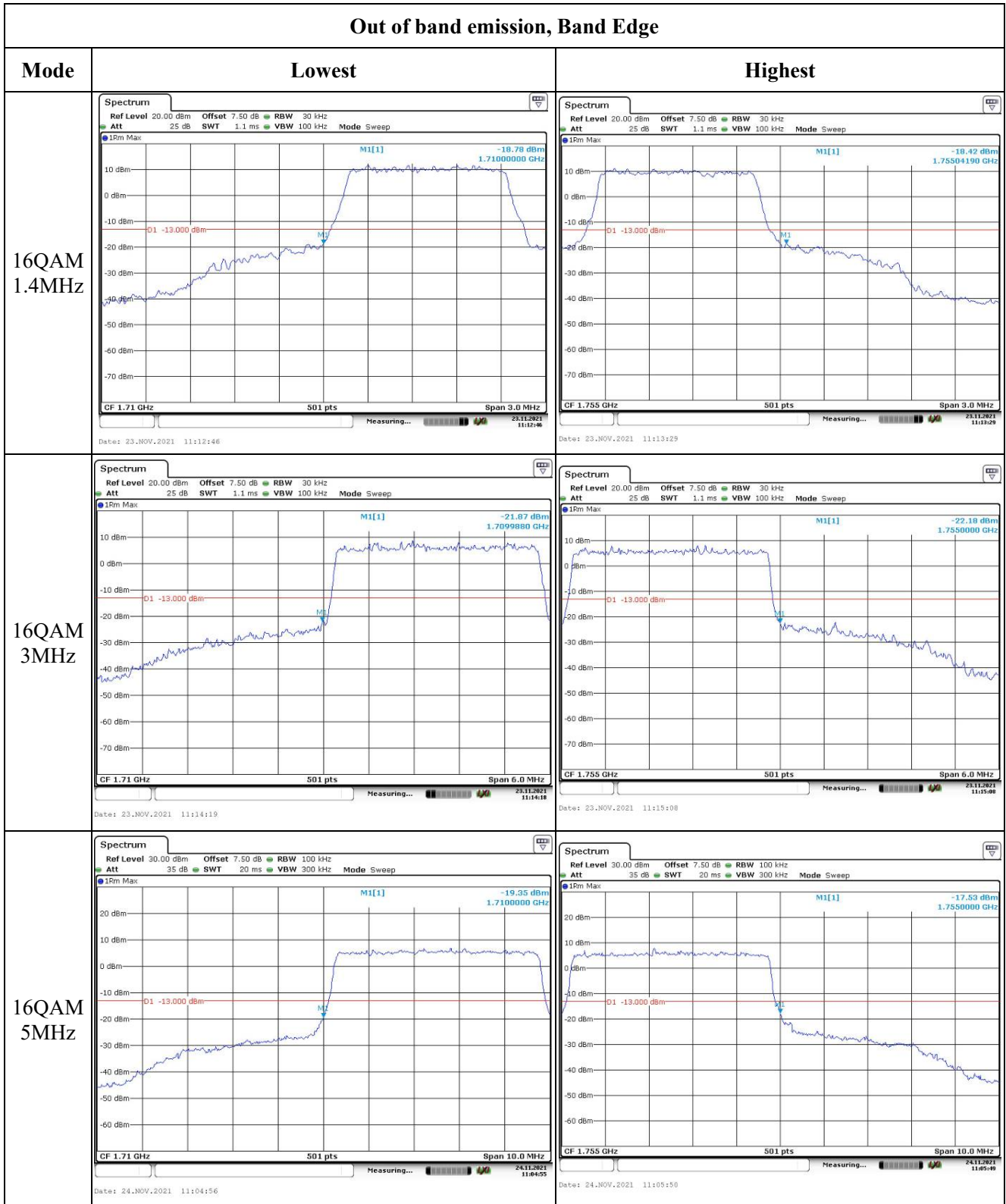
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 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] -17.59 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 11:17:21</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] -18.29 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 20.0 MHz Date: 23.NOV.2021 11:18:20</p>
QPSK 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] -13.77 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 23.NOV.2021 11:19:20</p>	<p>Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 25 dB SWT 10 ms VBW 1 MHz Mode Sweep M1[1] -20.50 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 13:14:20</p>
QPSK 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] -18.72 dBm 1.7099200 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 11:21:10</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] -15.96 dBm 1.7550000 GHz D1 -13.000 dBm CF 1.755 GHz 501 pts Span 40.0 MHz Date: 23.NOV.2021 11:22:10</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

4.8 Antenna Port Test Data and Results for LTE Band 5

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 5▲:

Antenna Gain (dBi):	0.6	Antenna Gain (dBd):	-1.55	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	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

Test Data:**FCC§2.1046;§ 22.913 (a)****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	18.73	18.77	18.69	17.9	38.45
	RB1#3	18.91	18.92	18.87		
	RB1#5	18.75	18.79	18.68		
	RB3#0	18.78	18.81	18.75		
	RB3#3	18.80	18.79	18.78		
	RB6#0	19.79	19.85	18.82		
1.4MHz 16QAM	RB1#0	19.76	19.89	19.76	18.02	38.45
	RB1#3	19.97	18.10	19.95		
	RB1#5	19.78	19.88	19.72		
	RB3#0	18.01	19.83	19.95		
	RB3#3	18.08	19.88	19.94		
	RB6#0	18.81	18.87	18.73		
3MHz QPSK	RB1#0	18.74	18.78	18.79	17.9	38.45
	RB1#8	18.69	18.79	18.77		
	RB1#14	18.69	18.79	18.76		
	RB6#0	19.75	19.77	19.80		
	RB6#9	19.76	19.78	19.77		
	RB15#0	19.79	19.85	19.80		
3MHz 16QAM	RB1#0	18.33	19.94	19.86	18	38.45
	RB1#8	18.33	19.95	19.81		
	RB1#14	18.34	19.95	19.81		
	RB6#0	18.82	18.75	18.69		
	RB6#9	18.85	18.82	18.68		
	RB15#0	18.85	18.77	18.83		
5MHz QPSK	RB1#0	18.70	18.72	18.68	17.94	38.45
	RB1#13	18.75	18.83	18.79		
	RB1#24	18.71	18.74	18.65		
	RB15#0	19.76	19.79	19.89		
	RB15#10	19.82	19.82	19.73		
	RB25#0	19.81	19.87	19.81		
5MHz 16QAM	RB1#0	19.63	18.04	19.79	17.94	38.45
	RB1#13	19.74	18.15	19.89		
	RB1#24	19.68	18.02	19.78		
	RB15#0	18.83	18.73	18.91		
	RB15#10	18.82	18.81	18.76		
	RB25#0	18.85	18.83	18.81		
10MHz QPSK	RB1#0	11.87	18.78	18.72	18.82	38.45

	RB1#25	18.89	18.90	18.93		
	RB1#49	20.77	18.81	18.79		
	RB25#0	19.84	19.86	19.87		
	RB25#25	19.87	19.87	19.80		
	RB50#0	19.89	19.90	19.84		
10MHz 16QAM	RB1#0	20.39	19.90	19.77	18.44	38.45
	RB1#25	18.53	19.16	19.97		
	RB1#49	18.42	19.99	19.81		
	RB25#0	18.85	18.89	18.94		
	RB25#25	18.90	18.90	18.89		
	RB50#0	18.87	18.87	18.87		

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

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	
10MHz QPSK	RB1#0	5.65	5.51	5.3	13
	RB50#0	5.39	5.48	5.3	13
10MHz 16QAM	RB1#0	6.7	5.88	6.2	13
	RB50#0	6.26	6.2	6.29	13
Result:					Pass

FCC §2.1049, §22.905: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	1.096	1.108	1.102	1.296	1.32	1.296
1.4MHz 16QAM	1.102	1.102	1.102	1.326	1.32	1.296
3MHz QPSK	2.683	2.683	2.683	2.868	2.88	2.892
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.868
5MHz QPSK	4.531	4.511	4.531	5.16	5.2	5.16
5MHz 16QAM	4.511	4.551	4.551	5.14	5.2	5.22
10MHz QPSK	8.981	8.942	8.942	10.04	9.92	9.96
10MHz 16QAM	8.942	8.942	8.981	9.72	9.92	9.92

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

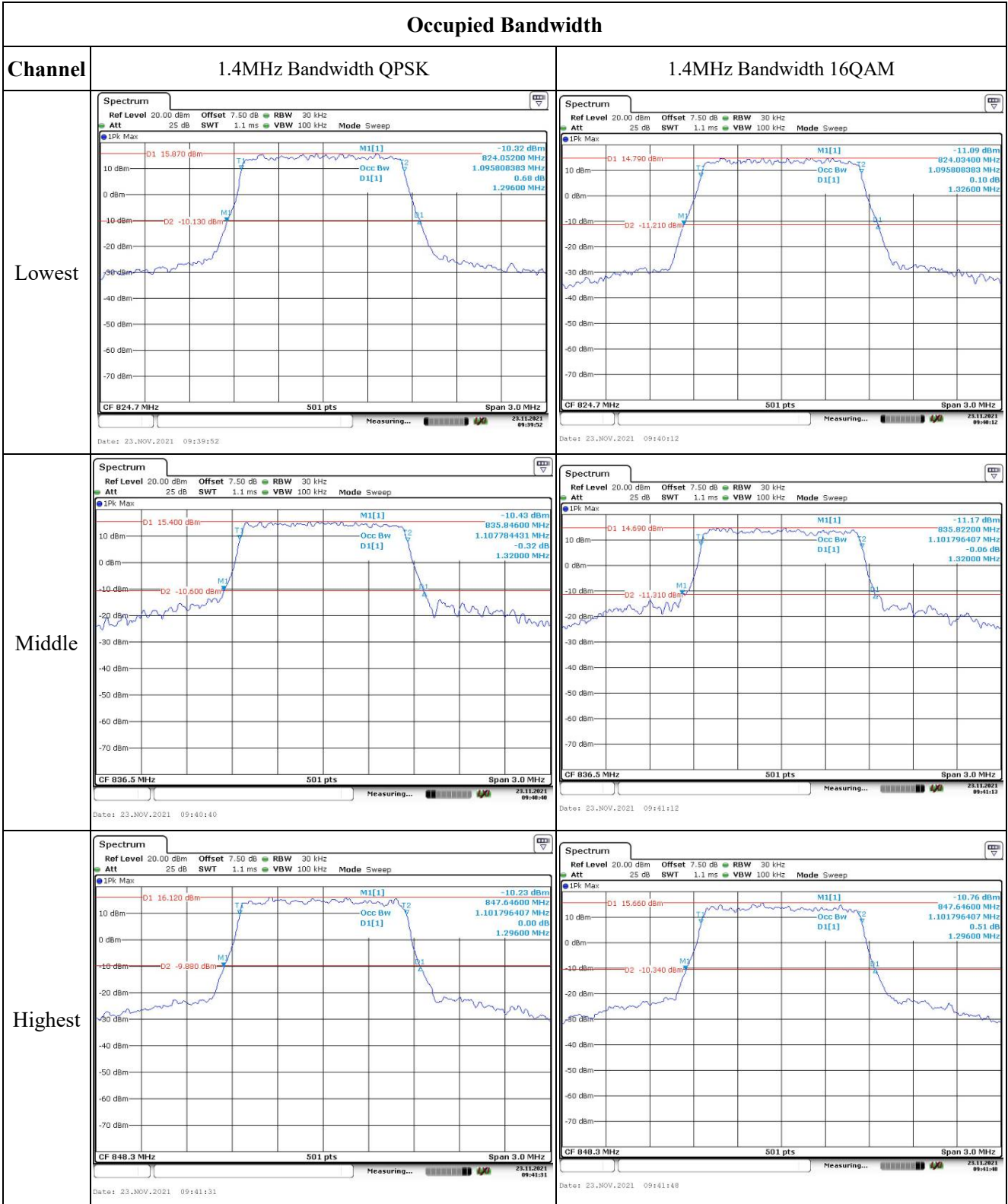
FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal**Result:** Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**FCC §2.1051, §22.917(a):Out of band emission, Band Edge****Result:** Pass, Please refer to the test plots of Out of band emission, Band Edge.**FCC §2.1055, §22.355: Frequency Stability**

Test Mode:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	-7.58	-0.009	2.5
	-20	3.85	6.9	0.008	2.5
	-10	3.85	-8.46	-0.010	2.5
	0	3.85	9.1	0.011	2.5
	10	3.85	5.55	0.007	2.5
	20	3.85	-8.77	-0.010	2.5
	30	3.85	9.91	0.012	2.5
	40	3.85	-8.41	-0.010	2.5
Frequency Stability vs. Voltage	20	3.6	5.19	0.006	2.5
	20	4.35	-9.28	-0.011	2.5
Result:				Pass	

Test Mode:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	-7.17	-0.009	2.5
	-20	3.85	8.1	0.010	2.5
	-10	3.85	-7.48	-0.009	2.5
	0	3.85	5.37	0.006	2.5
	10	3.85	-9.07	-0.011	2.5
	20	3.85	-5.23	-0.006	2.5
	30	3.85	-5.38	-0.006	2.5
	40	3.85	-7.8	-0.009	2.5
Frequency Stability vs. Voltage	20	3.6	7.74	0.009	2.5
	20	4.35	6.66	0.008	2.5
Result:				Pass	

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest	<p>CF 825.5 MHz 501 pts Span 6.0 MHz</p>	<p>CF 825.5 MHz 501 pts Span 6.0 MHz</p>
Middle	<p>CF 836.5 MHz 501 pts Span 6.0 MHz</p>	<p>CF 836.5 MHz 501 pts Span 6.0 MHz</p>
Highest	<p>CF 847.5 MHz 501 pts Span 6.0 MHz</p>	<p>CF 847.5 MHz 501 pts Span 6.0 MHz</p>

Occupied Bandwidth

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

Occupied Bandwidth

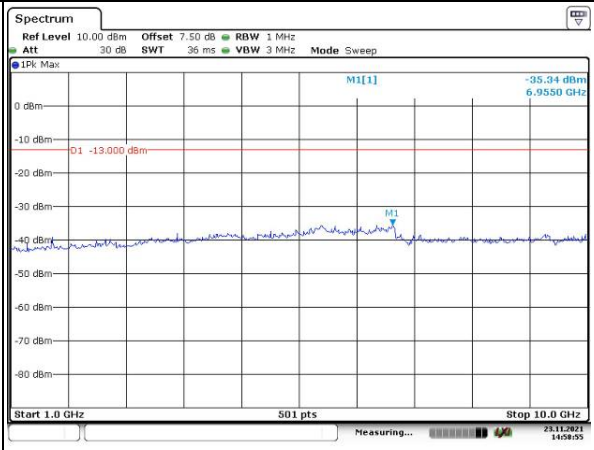
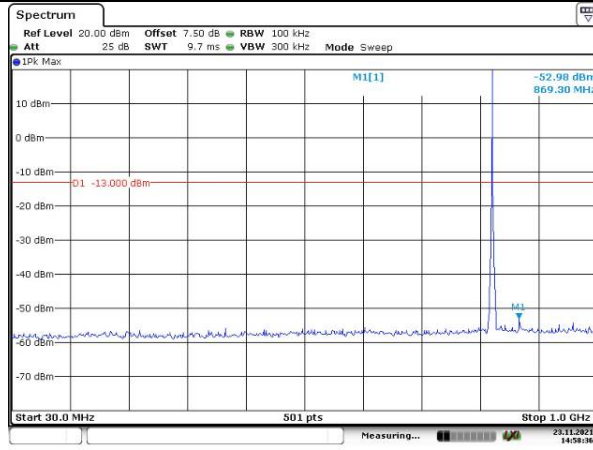
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>10MHz Bandwidth QPSK</p> <p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -14.00 dBm 823.9600 MHz D1[1] -12.610 dBm 8.982035928 MHz D2 -13.390 dBm 10.0400 MHz</p> <p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:47:34</p>	<p>10MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -12.57 dBm 824.1600 MHz D1[1] -13.380 dBm 8.942115768 MHz D2 -12.620 dBm 9.7200 MHz</p> <p>CF 829.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:47:59</p>
Middle	<p>10MHz Bandwidth QPSK</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</p> <p>1Pk Max</p> <p>M1[1] -13.14 dBm 831.5400 MHz D1[1] -12.820 dBm 8.942115768 MHz D2 -13.180 dBm 9.9200 MHz</p> <p>CF 836.5 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:48:24</p>	<p>10MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -14.13 dBm 831.5800 MHz D1[1] -11.440 dBm 8.942115768 MHz D2 -14.560 dBm 9.9200 MHz</p> <p>CF 836.5 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:48:52</p>
Highest	<p>10MHz Bandwidth QPSK</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</p> <p>1Pk Max</p> <p>M1[1] -14.32 dBm 839.0000 MHz D1[1] -12.900 dBm 8.942115768 MHz D2 -13.100 dBm 9.9600 MHz</p> <p>CF 844.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:49:27</p>	<p>10MHz Bandwidth 16QAM</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</p> <p>1Pk Max</p> <p>M1[1] -14.10 dBm 839.0000 MHz D1[1] -12.300 dBm 8.982035928 MHz D2 -13.700 dBm 9.9200 MHz</p> <p>CF 844.0 MHz 501 pts Span 20.0 MHz</p> <p>Date: 23.NOV.2021 09:49:51</p>

Spurious Emissions at Antenna Terminal

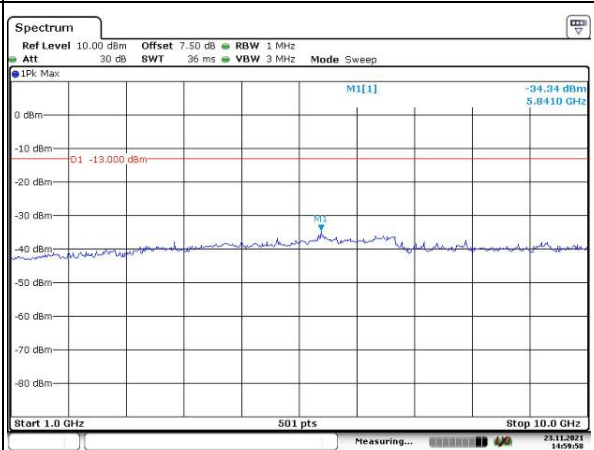
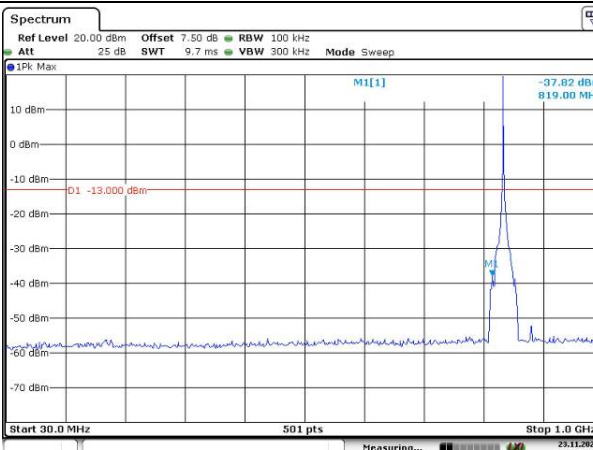
Channel

1.4MHz Bandwidth QPSK

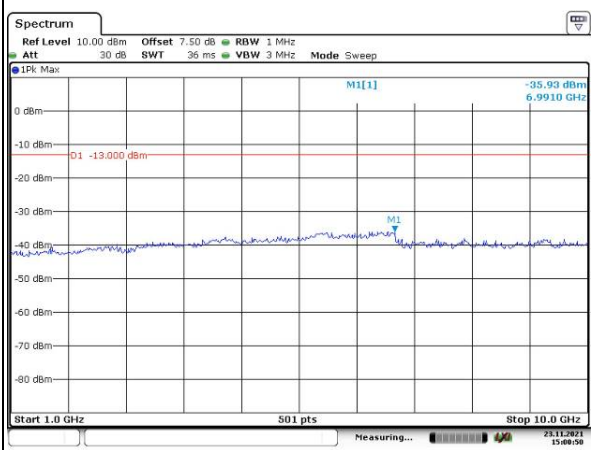
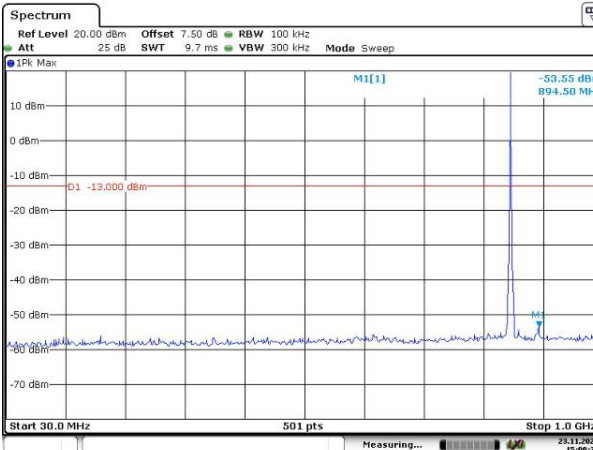
Lowest



Middle



Highest

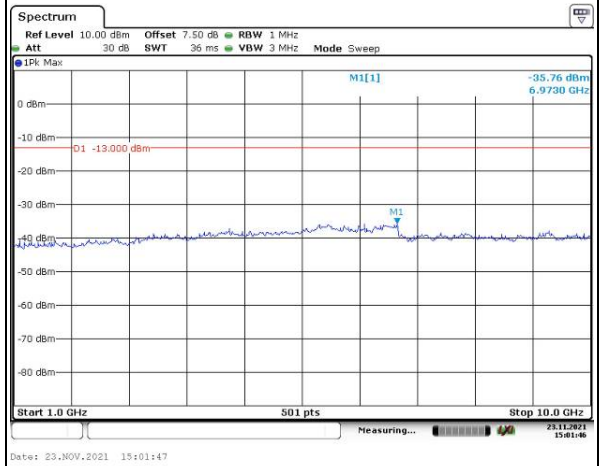
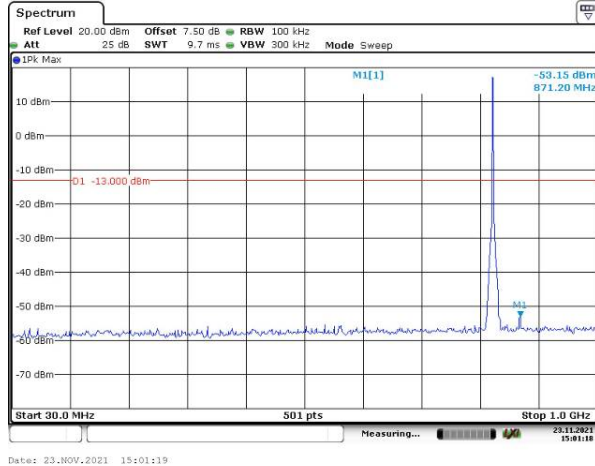


Spurious Emissions at Antenna Terminal

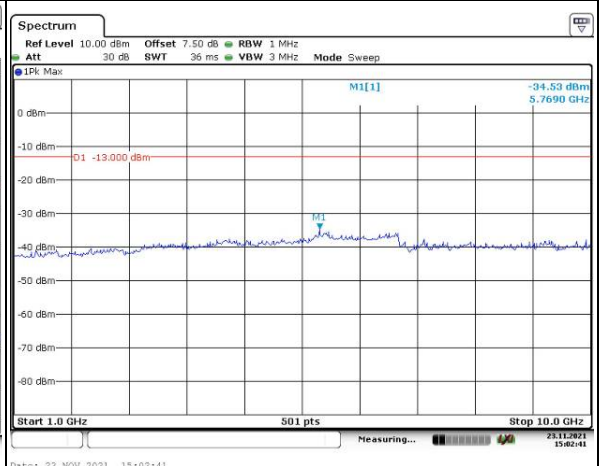
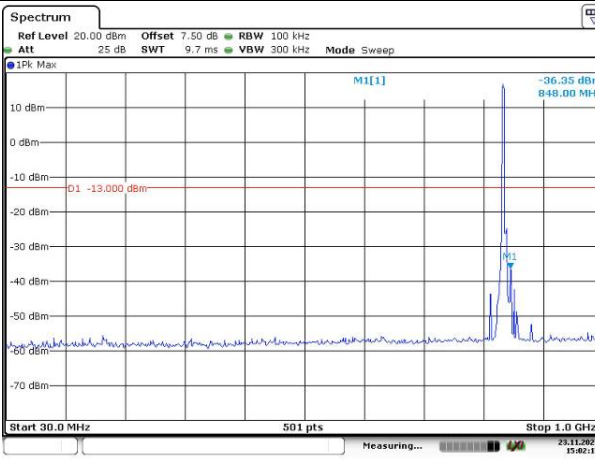
Channel

3MHz Bandwidth QPSK

Lowest



Middle



Highest

