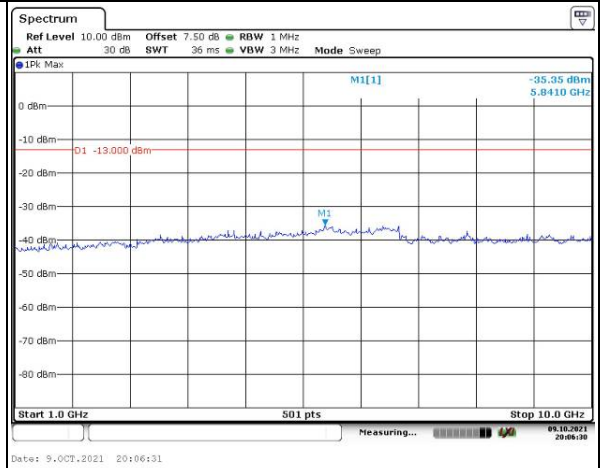
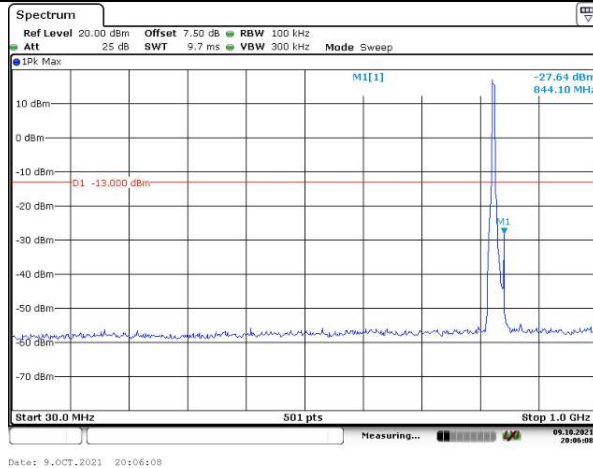


Spurious Emissions at Antenna Terminal

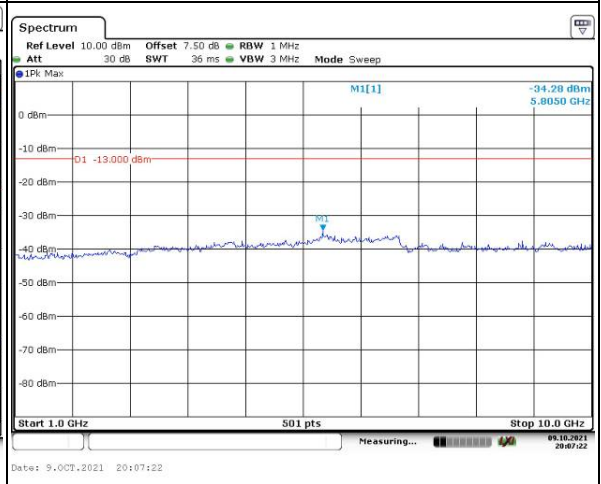
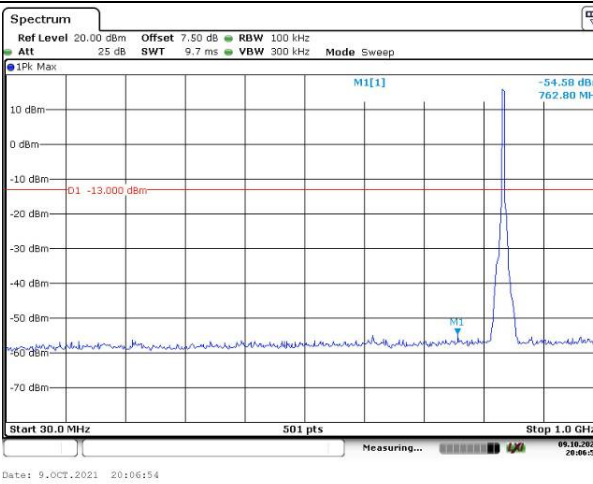
Channel

5MHz Bandwidth QPSK

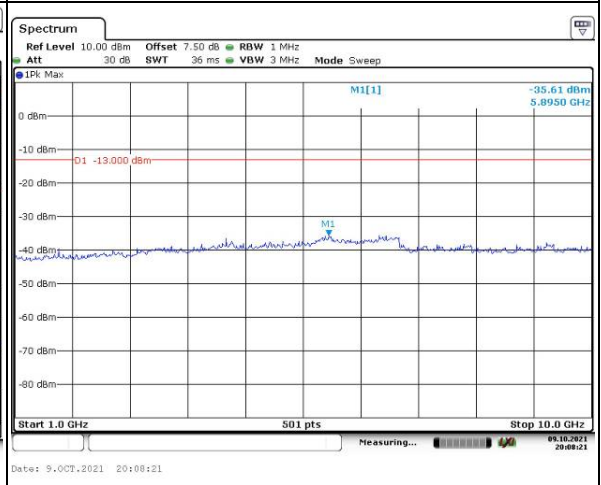
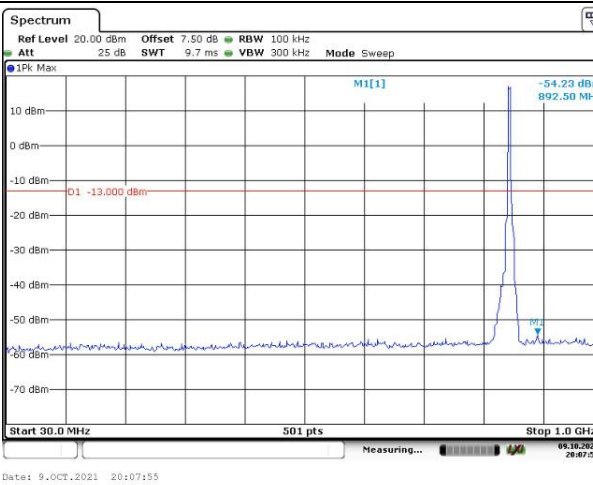
Lowest



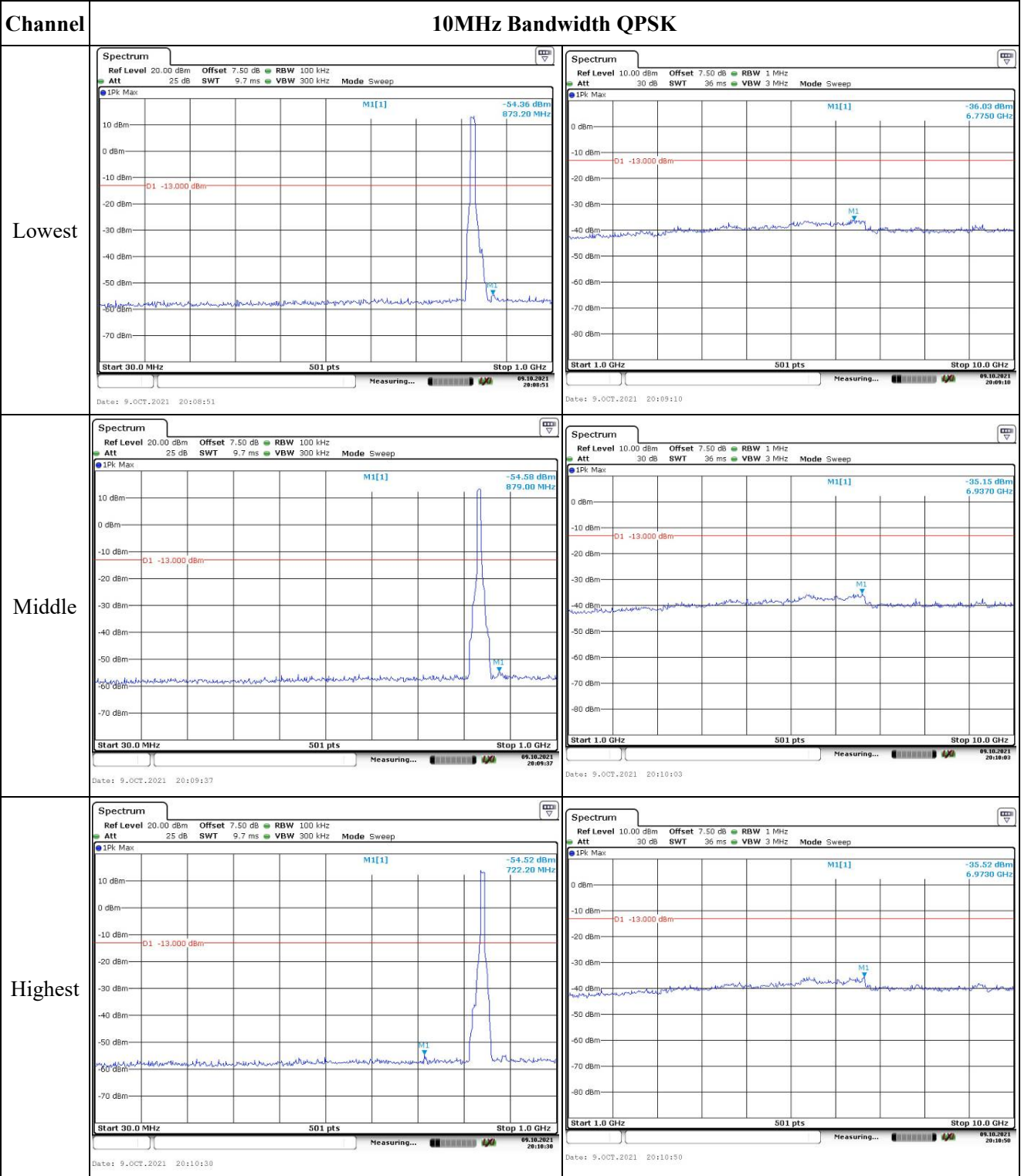
Middle



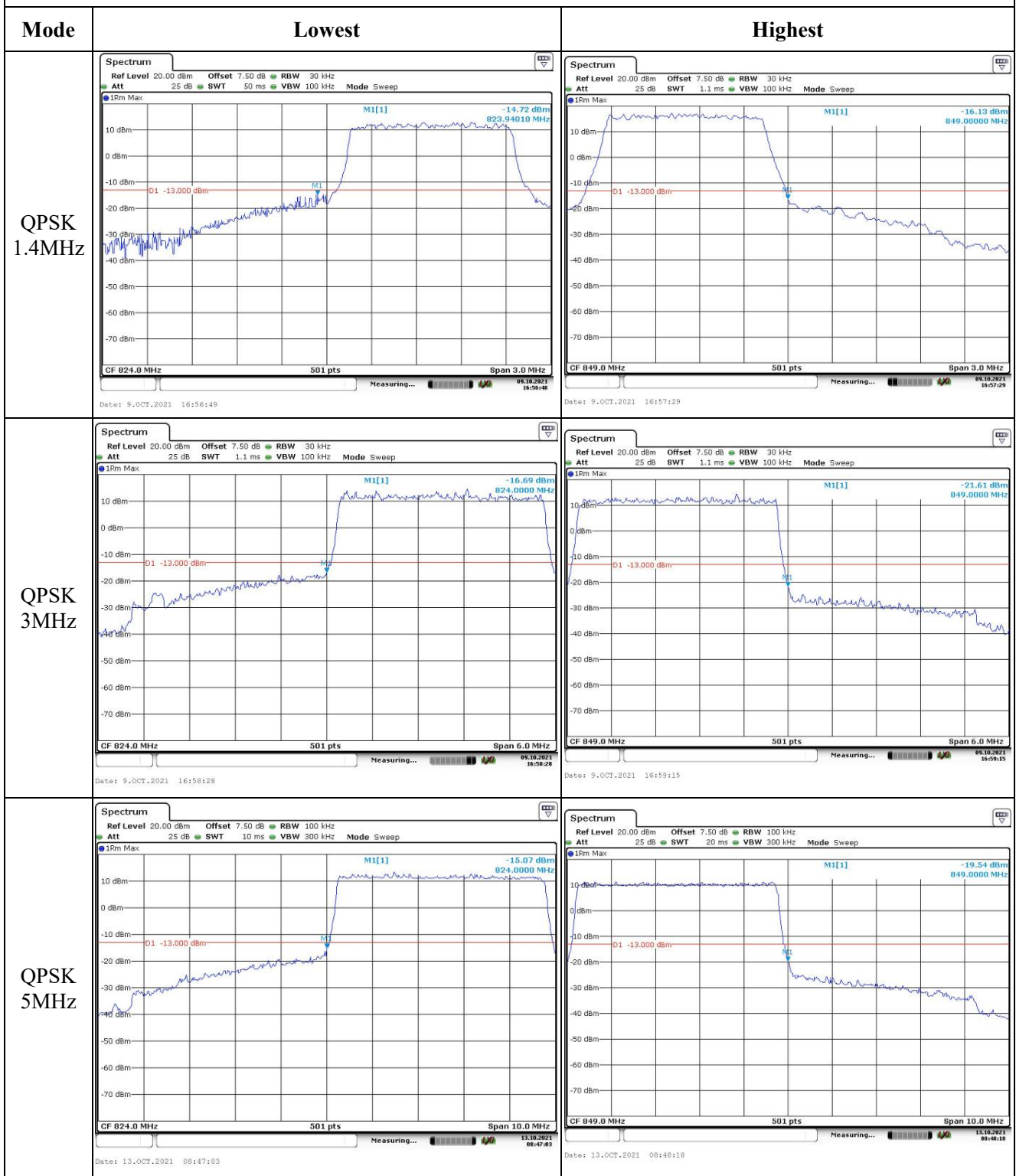
Highest



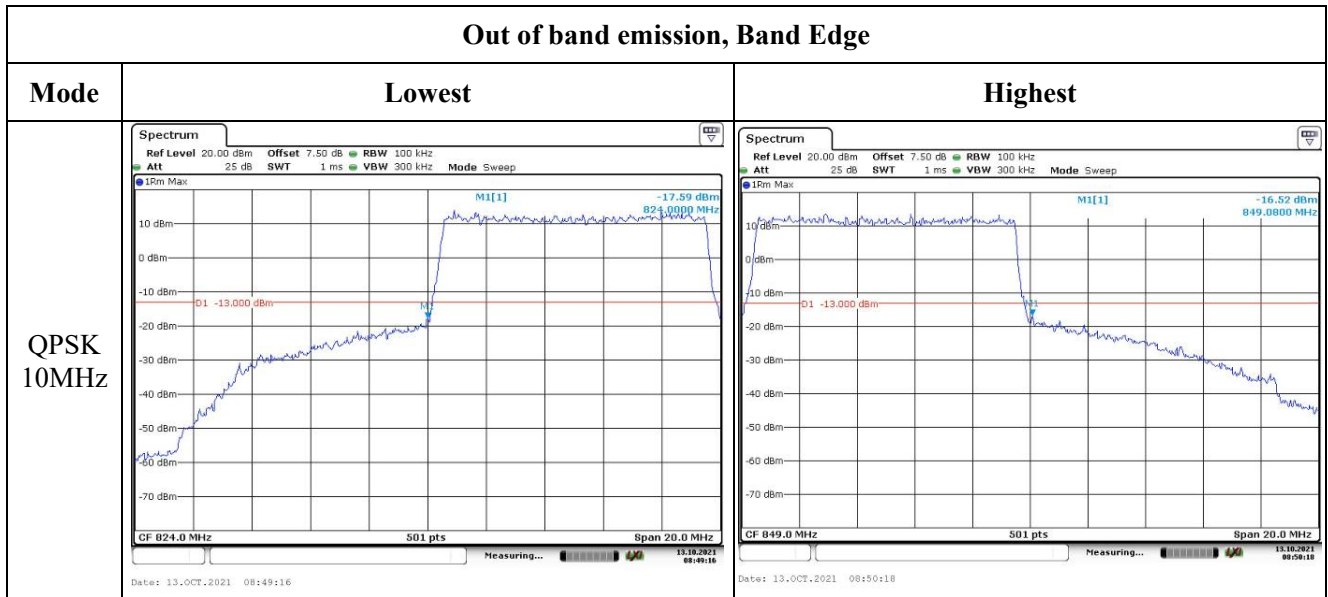
Spurious Emissions at Antenna Terminal



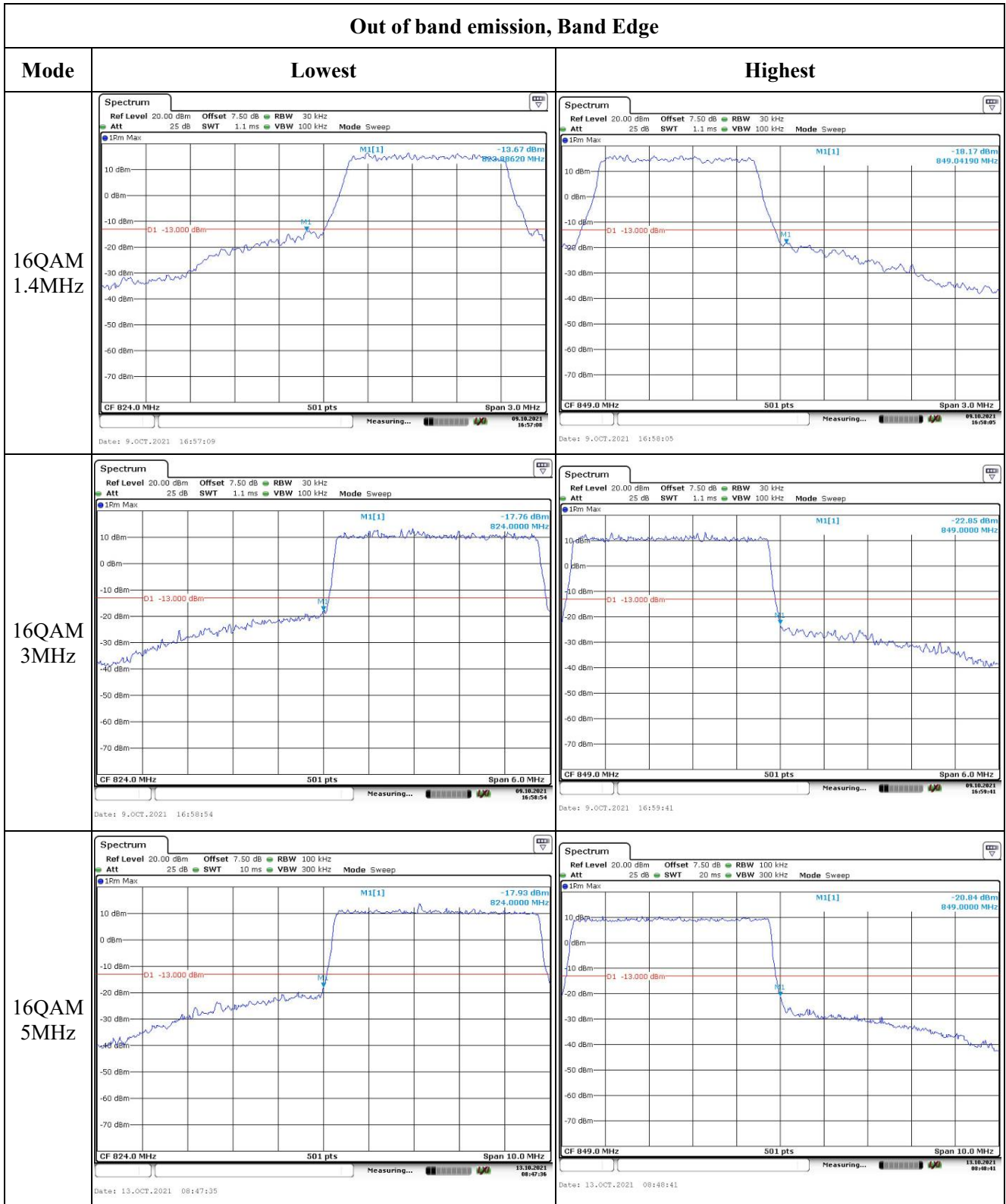
Out of band emission, Band Edge



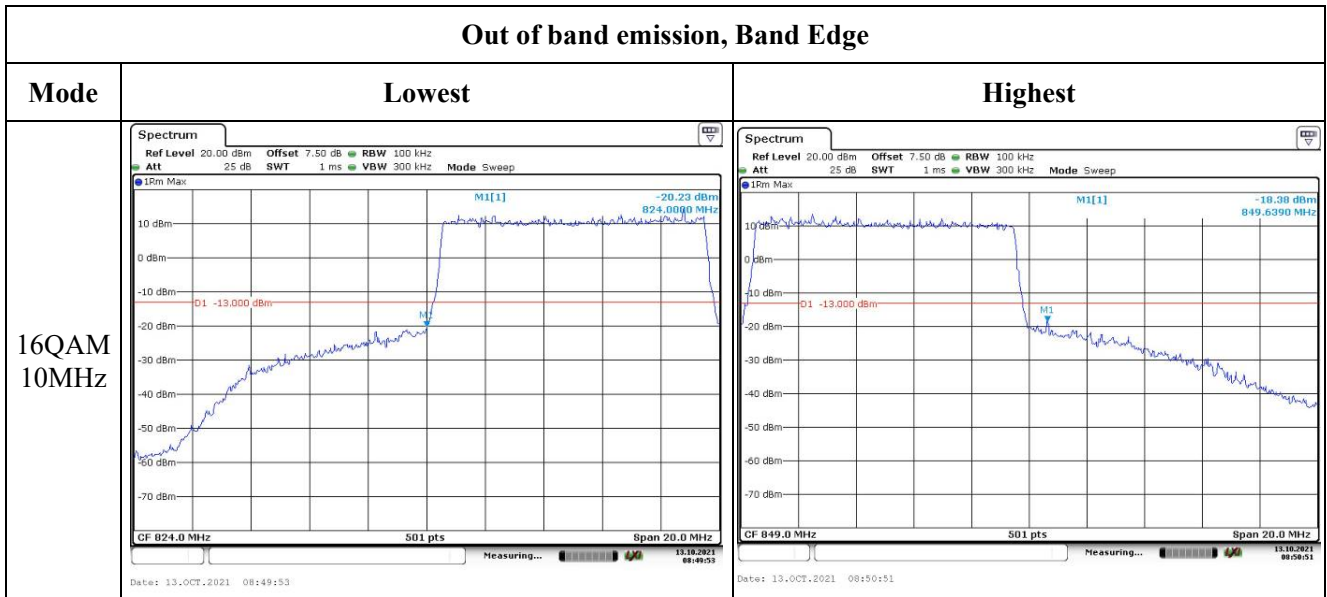
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.9 Antenna Port Test Data and Results for LTE Band 7:

Serial Number:	CR21090086-RF-S1	Test Date:	2021/10/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Thor Lei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.7	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.6
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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 7▲:

Antenna Gain (dBi):	1	Cable Loss (dB):	0.5
Operation Voltage(V _{DC}):			
Lowest:	3.6	Normal:	3.8
		Highest:	4.3

Test Frequency For Each Mode:			
Operation Bandwidth	Lowest Frequency(MHz)	Middle Frequency(MHz)	Highest Frequency(MHz)
5MHz	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

Test Data:**FCC§2.1046;§ 27.50(h)(2)****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		
5MHz QPSK	RB1#0	22.15	22.22	22.23	22.95	33
	RB1#13	22.33	22.4	22.45		
	RB1#24	22.17	22.22	22.3		
	RB15#0	21.3	21.3	21.44		
	RB15#10	21.32	21.33	21.43		
	RB25#0	21.29	21.31	21.43		
5MHz 16QAM	RB1#0	21.08	21.47	21.35	22.1	33
	RB1#13	21.19	21.6	21.51		
	RB1#24	21.01	21.46	21.37		
	RB15#0	20.26	20.32	20.51		
	RB15#10	20.37	20.3	20.47		
	RB25#0	20.26	20.29	20.49		
10MHz QPSK	RB1#0	22.29	22.3	22.41	23.07	33
	RB1#25	22.4	22.46	22.57		
	RB1#49	22.26	22.34	22.42		
	RB25#0	21.29	21.37	21.48		
	RB25#25	21.33	21.36	21.49		
	RB50#0	21.33	21.33	21.5		
10MHz 16QAM	RB1#0	21.75	21.4	21.39	22.4	33
	RB1#25	21.9	21.6	21.6		
	RB1#49	21.83	21.39	21.43		
	RB25#0	20.37	20.39	20.63		
	RB25#25	20.44	20.39	20.59		
	RB50#0	20.35	20.37	20.54		
15MHz QPSK	RB1#0	22.22	22.19	22.27	22.94	33
	RB1#38	22.3	22.37	22.44		
	RB1#74	22.17	22.19	22.33		
	RB36#0	21.33	21.39	21.47		
	RB36#39	21.36	21.42	21.45		
	RB75#0	21.39	21.4	21.46		

15MHz 16QAM	RB1#0	21.68	21.31	21.67	22.37	33
	RB1#38	21.87	21.45	21.81		
	RB1#74	21.81	21.35	21.75		
	RB36#0	20.31	20.34	20.5		
	RB36#39	20.39	20.38	20.5		
	RB75#0	20.36	20.4	20.44		
20MHz QPSK	RB1#0	22.04	22.07	22.17	23.06	33
	RB1#50	22.34	22.54	22.56		
	RB1#99	21.96	22.1	22.17		
	RB50#0	21.13	21.3	21.46		
	RB50#50	21.29	21.37	21.35		
	RB100#0	21.22	21.35	21.4		
20MHz 16QAM	RB1#0	21.48	21.38	21.38	22.48	33
	RB1#50	21.98	21.73	21.75		
	RB1#99	21.6	21.41	21.41		
	RB50#0	20.21	20.26	20.52		
	RB50#50	20.32	20.29	20.4		
	RB100#0	20.28	20.31	20.46		
					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	3.94	4.49	4.93	13	
	RB100#0	4.87	4.7	5.22	13	
20MHz 16QAM	RB1#0	4.99	5.19	5.83	13	
	RB100#0	5.65	5.57	6.14	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
5MHz QPSK	4.511	4.511	4.491	4.94	4.98	4.94
5MHz 16QAM	4.491	4.531	4.531	4.96	4.94	4.96
10MHz QPSK	8.981	8.942	8.942	9.72	9.6	9.64
10MHz 16QAM	8.942	8.981	8.942	9.56	9.6	9.6
15MHz QPSK	13.473	13.473	13.533	14.88	14.76	14.82
15MHz 16QAM	13.533	13.473	13.533	14.7	14.76	14.82
20MHz QPSK	17.964	17.964	18.044	19.36	19.44	19.52
20MHz 16QAM	17.964	17.964	17.964	19.28	19.44	19.36

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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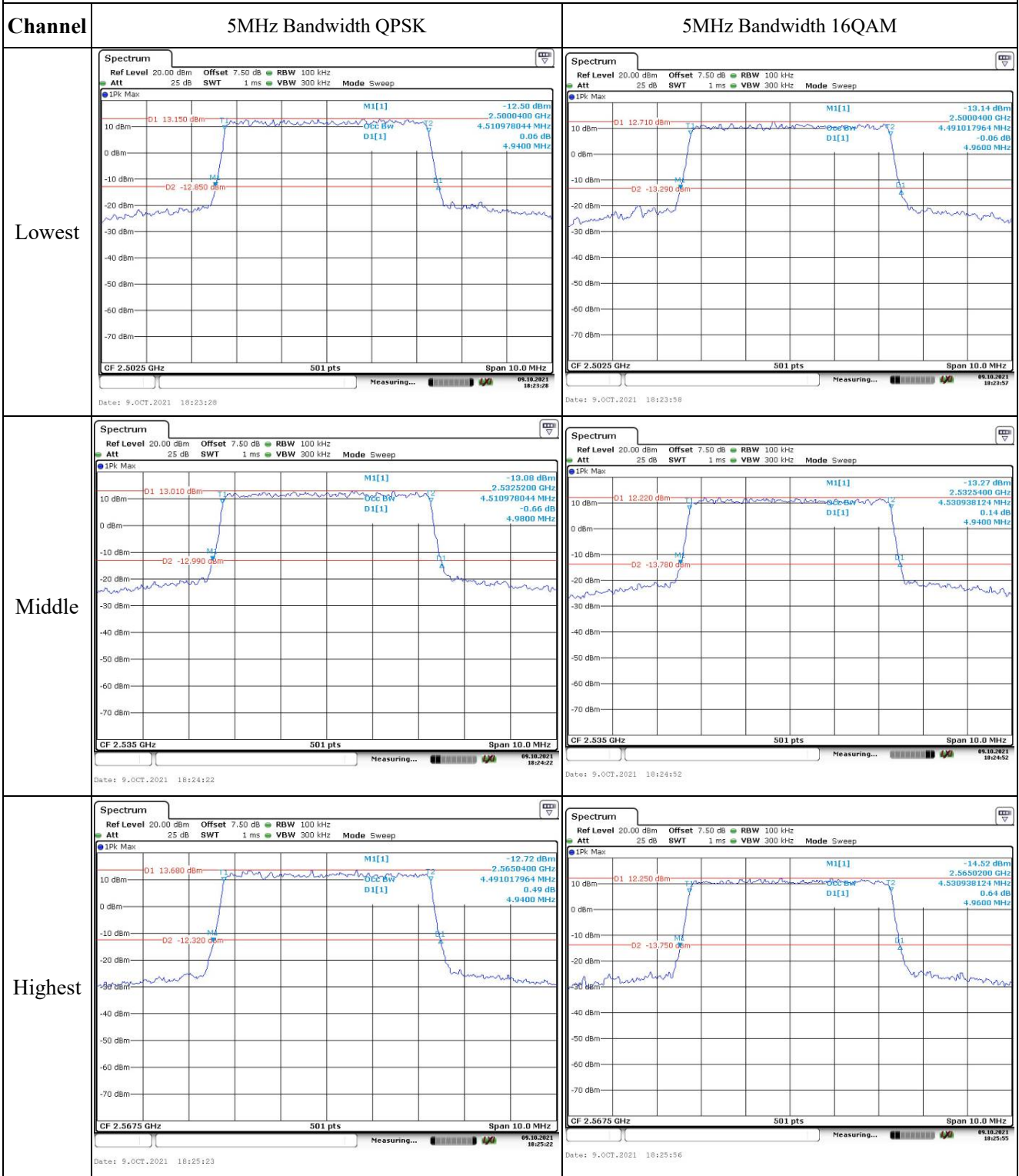
FCC §2.1055, §27.54: Frequency Stability

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	3.8	2500.5282	2500.00	2569.4712	2570
	-20	3.8	2500.5298	2500.00	2569.4717	2570
	-10	3.8	2500.5285	2500.00	2569.4715	2570
	0	3.8	2500.5284	2500.00	2569.4716	2570
	10	3.8	2500.5282	2500.00	2569.4717	2570
	20	3.8	2500.5289	2500.00	2569.4711	2570
	30	3.8	2500.5284	2500.00	2569.4718	2570
	40	3.8	2500.5278	2500.00	2569.4713	2570
Frequency Stability vs. Voltage	50	3.8	2500.5285	2500.00	2569.4717	2570
	20	3.6	2500.5282	2500.00	2569.4719	2570
	20	4.3	2500.5283	2500.00	2569.4715	2570
					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	3.8	2500.5287	2500.00	2569.4717	2570
	-20	3.8	2500.5287	2500.00	2569.4715	2570
	-10	3.8	2500.5285	2500.00	2569.4716	2570
	0	3.8	2500.5282	2500.00	2569.4717	2570
	10	3.8	2500.5286	2500.00	2569.4715	2570
	20	3.8	2500.5289	2500.00	2569.4711	2570
	30	3.8	2500.5287	2500.00	2569.4716	2570
	40	3.8	2500.5285	2500.00	2569.4714	2570
Frequency Stability vs. Voltage	50	3.8	2500.5287	2500.00	2569.4713	2570
	20	3.6	2500.5284	2500.00	2569.4717	2570
	20	4.3	2500.5282	2500.00	2569.4718	2570
					Result:	Pass

Test Plots:

Occupied Bandwidth



Occupied Bandwidth

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

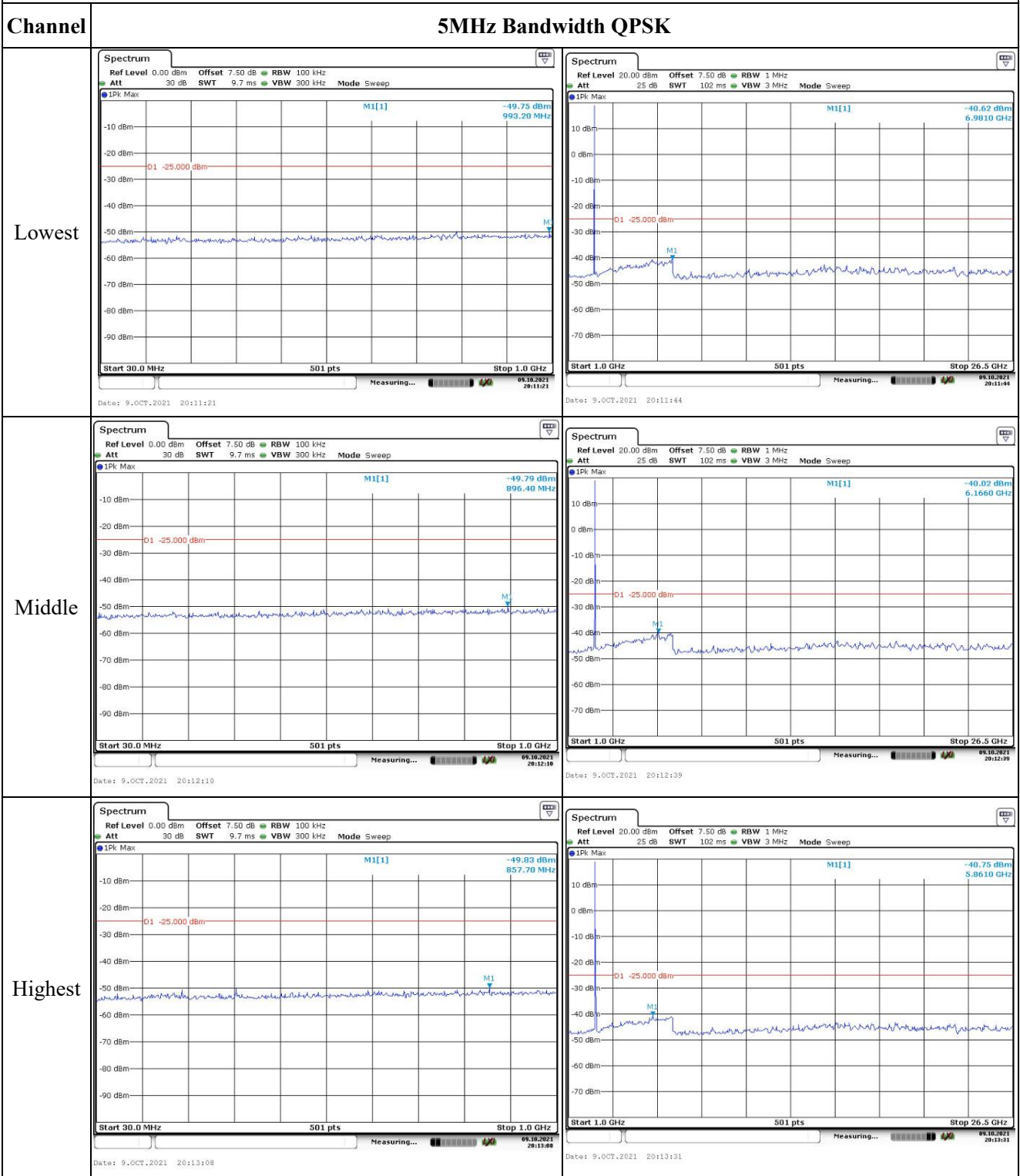
Occupied Bandwidth

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 D1 14.060 dBm M1[1] -12.35 dBm 2.5001200 GHz 13.473053892 MHz -0.80 dB 14.8800 MHz D2 -11.940 dBm CF 2.5075 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:29:26</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 D1 12.620 dBm M1[1] -12.52 dBm 2.5001800 GHz 13.532934132 MHz -0.59 dB 14.7000 MHz D2 -13.360 dBm CF 2.5075 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:29:53</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 D1 13.720 dBm M1[1] -11.79 dBm 2.5276800 GHz 13.473053892 MHz -1.53 dB 14.7600 MHz D2 -12.280 dBm CF 2.535 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:30:21</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 D1 13.000 dBm M1[1] -13.68 dBm 2.5276200 GHz 13.473053892 MHz 0.84 dB 14.7600 MHz D2 -13.000 dBm CF 2.535 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:30:52</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 D1 13.650 dBm M1[1] -11.79 dBm 2.5550600 GHz 13.532934132 MHz -0.67 dB 14.8200 MHz D2 -12.350 dBm CF 2.5625 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:31:20</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 D1 13.380 dBm M1[1] -13.93 dBm 2.5550600 GHz 13.532934132 MHz 2.23 dB 14.8200 MHz D2 -12.620 dBm CF 2.5625 GHz 501 pts Span 30.0 MHz Date: 9.OCT.2021 18:31:47</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 D1 12.750 dBm M1[1] -13.73 dBm 2.5003200 GHz 17.964071856 MHz 0.51 dB 19.3600 MHz D2 -13.290 dBm CF 2.51 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:32:15</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 D1 11.570 dBm M1[1] -14.07 dBm 2.5004000 GHz 17.964071856 MHz 0.55 dB 19.2800 MHz D2 -14.430 dBm CF 2.51 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:32:42</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 D1 13.270 dBm M1[1] -13.27 dBm 2.5253200 GHz 17.964071856 MHz 0.23 dB 19.4400 MHz D2 -12.730 dBm CF 2.535 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:33:13</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 D1 11.680 dBm M1[1] -13.20 dBm 2.5253200 GHz 17.964071856 MHz -1.83 dB 19.4400 MHz D2 -14.320 dBm CF 2.535 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:33:37</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 D1 12.730 dBm M1[1] -12.96 dBm 2.5503200 GHz 18.043912176 MHz -0.49 dB 19.5200 MHz D2 -13.270 dBm CF 2.56 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:34:05</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 D1 12.480 dBm M1[1] -13.51 dBm 2.5504000 GHz 17.964071856 MHz -0.37 dB 19.3600 MHz D2 -13.520 dBm CF 2.56 GHz 501 pts Span 40.0 MHz Date: 9.OCT.2021 18:34:42</p>

Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal

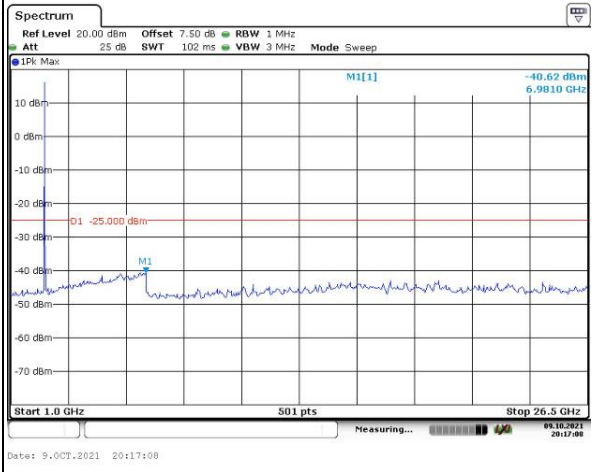
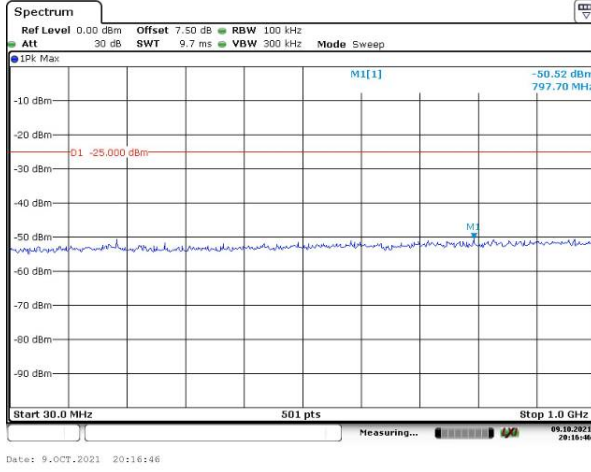
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -48.60 dBm 795.70 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 9.OCT.2021 20:14:04</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 102 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.21 dBm 6.9810 GHz -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz Date: 9.OCT.2021 20:14:23</p>
Middle	<p>Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.73 dBm 722.20 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 9.OCT.2021 20:14:51</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 102 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -41.11 dBm 6.9810 GHz -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz Date: 9.OCT.2021 20:15:13</p>
Highest	<p>Ref Level 0.00 dBm Offset 7.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.32 dBm 939.00 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 9.OCT.2021 20:15:47</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 1 MHz Att 25 dB SWT 102 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -40.41 dBm 6.4720 GHz -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz Date: 9.OCT.2021 20:16:13</p>

Spurious Emissions at Antenna Terminal

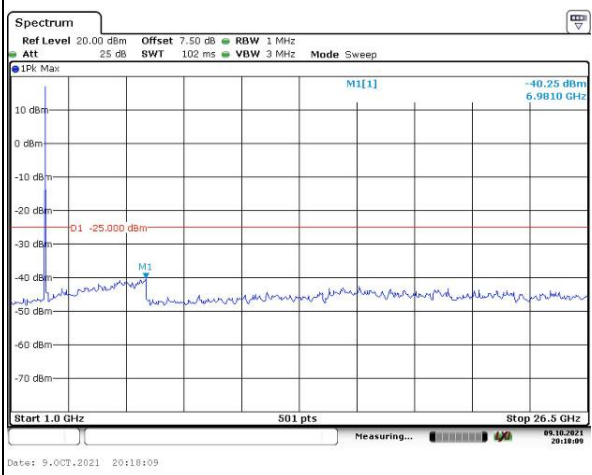
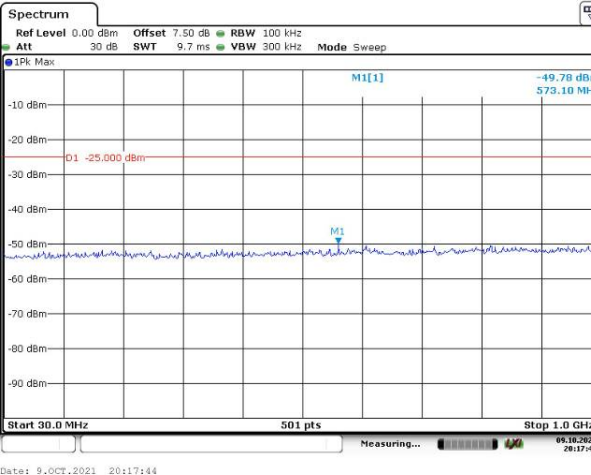
Channel

15MHz Bandwidth QPSK

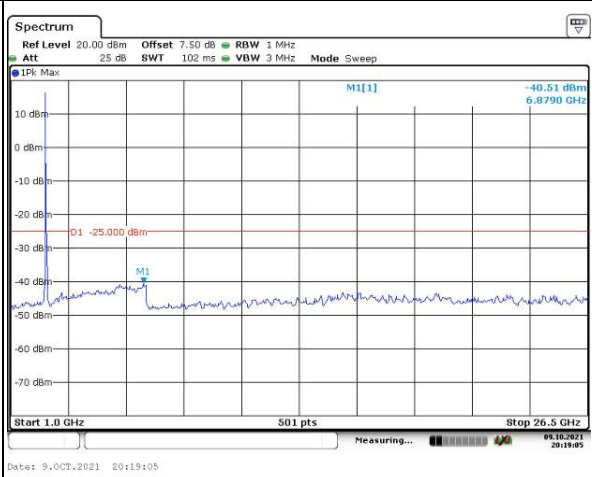
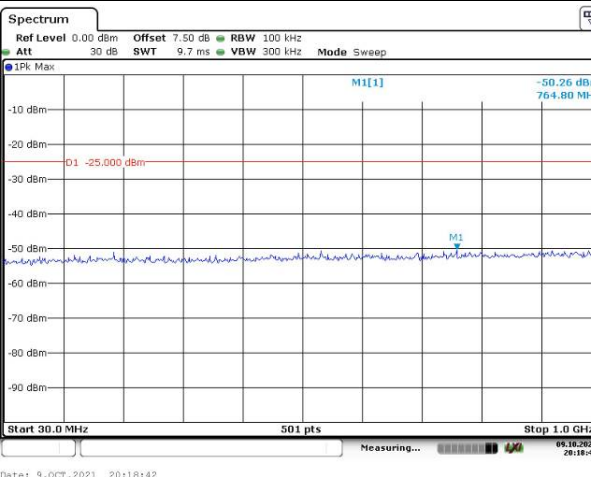
Lowest



Middle



Highest

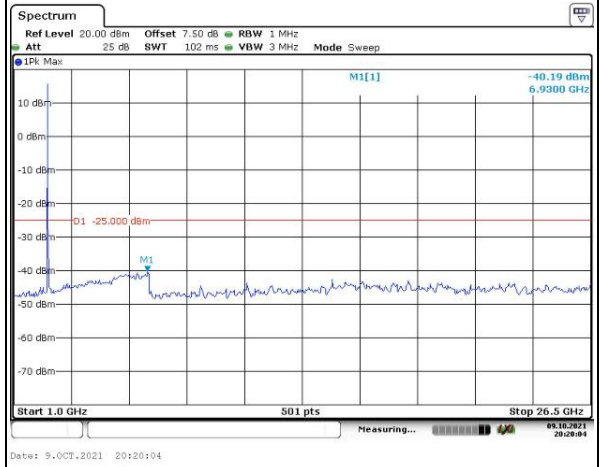
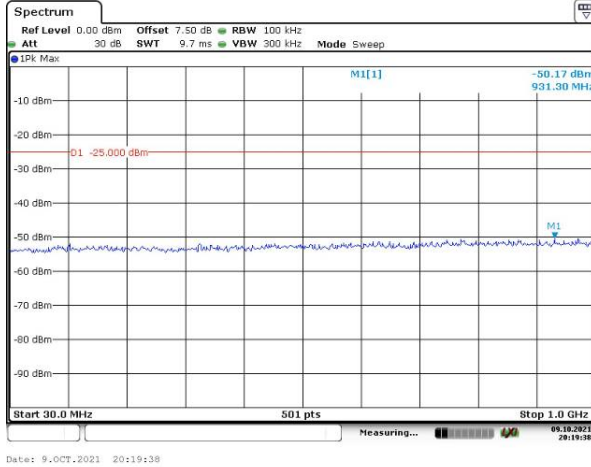


Spurious Emissions at Antenna Terminal

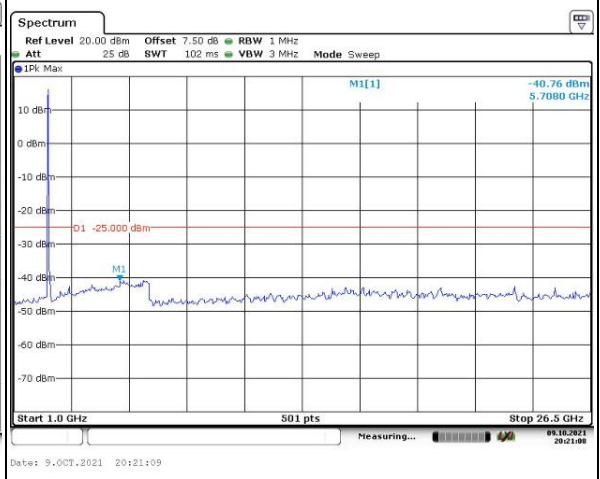
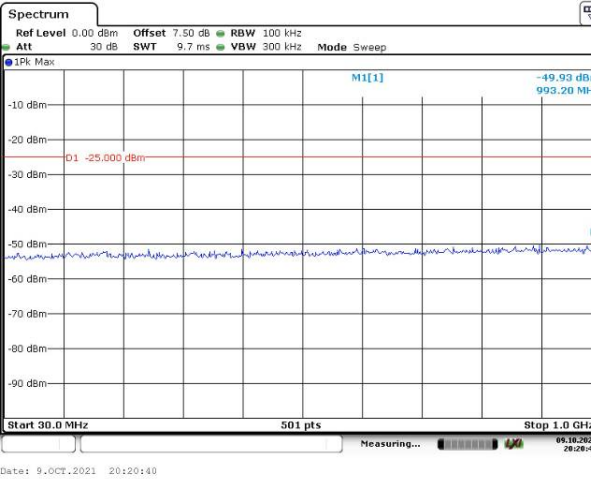
Channel

20MHz Bandwidth QPSK

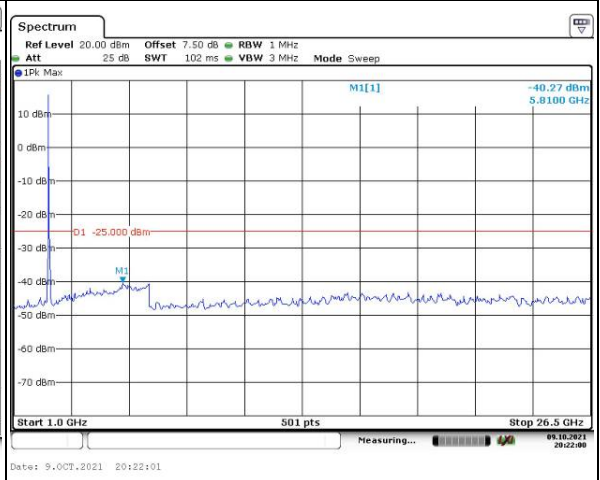
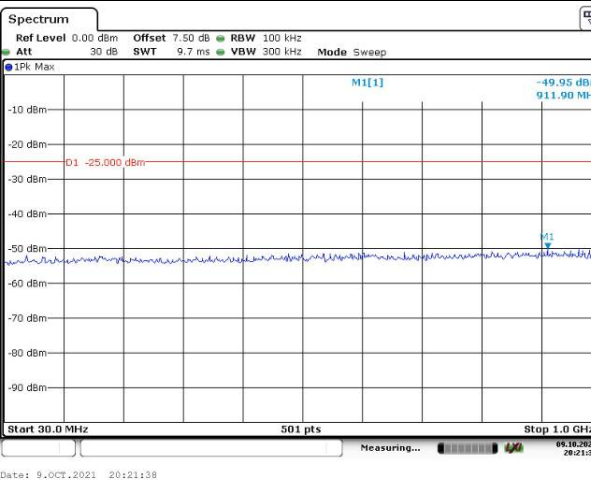
Lowest



Middle



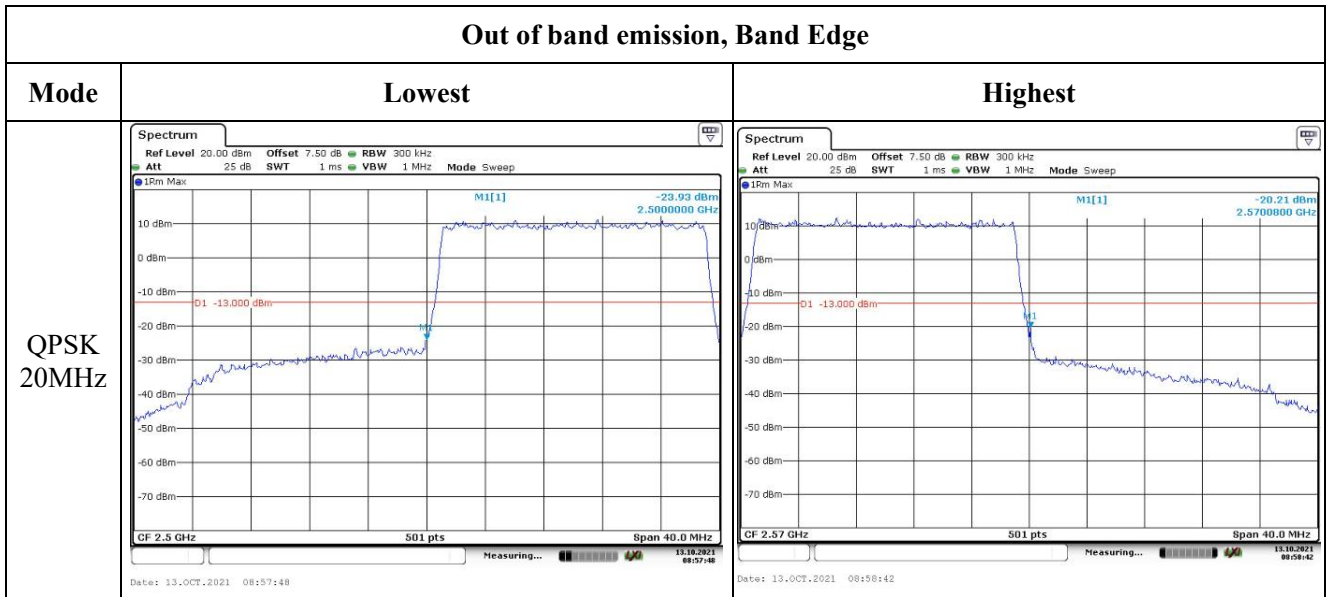
Highest



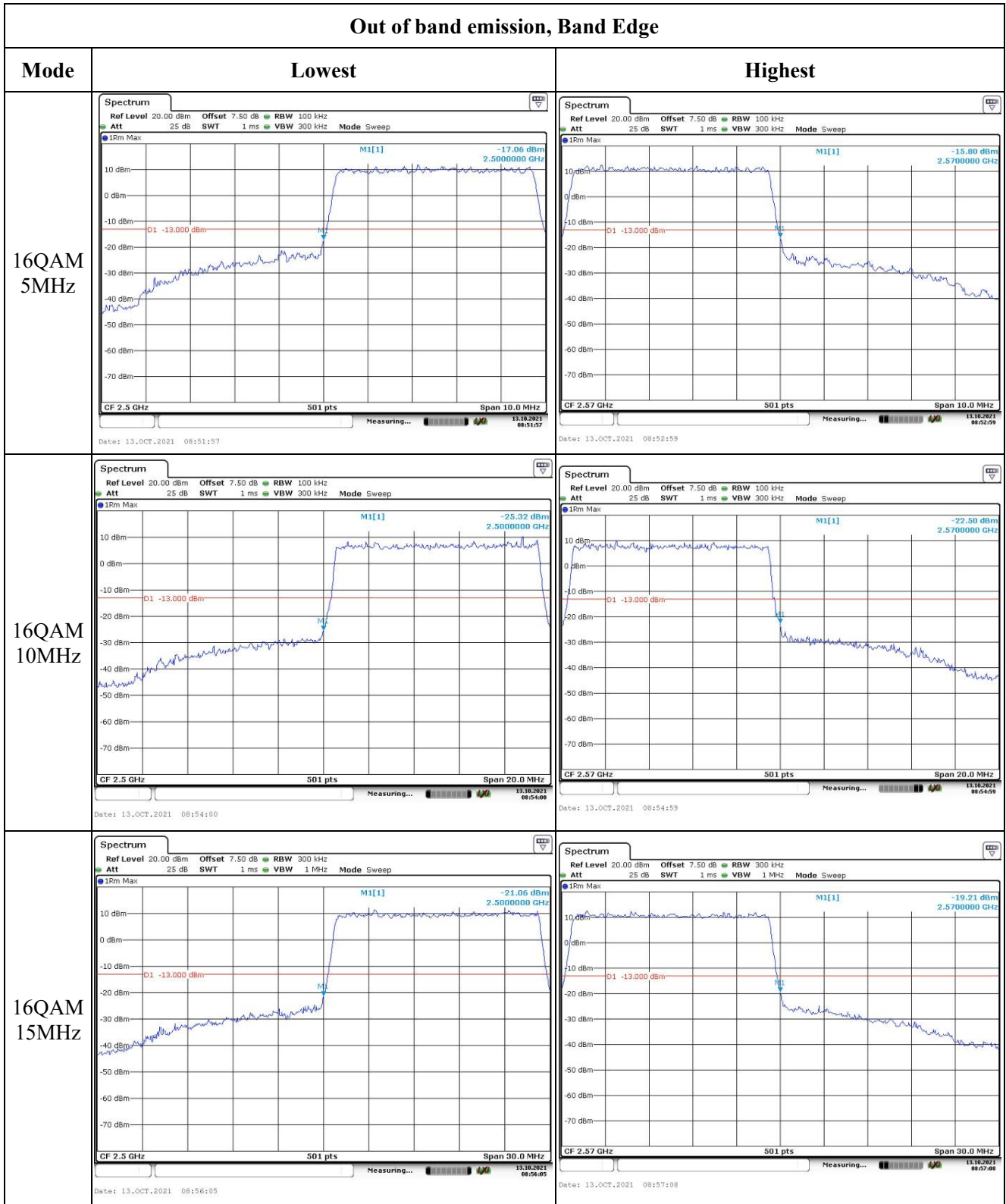
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 10 ms VBW 300 kHz Mode Sweep 1Rm Max M1[1] -20.41 dBm 2.5000000 GHz D1 -13.000 dBm CF 2.5 GHz 501 pts Span 10.0 MHz Date: 13.OCT.2021 08:51:33</p>	<p>Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 10 ms VBW 300 kHz Mode Sweep 1Rm Max M1[1] -20.29 dBm 2.5700000 GHz D1 -13.000 dBm CF 2.57 GHz 501 pts Span 10.0 MHz Date: 13.OCT.2021 08:52:27</p>
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 1Rm Max M1[1] -22.22 dBm 2.5000000 GHz D1 -13.000 dBm CF 2.5 GHz 501 pts Span 20.0 MHz Date: 13.OCT.2021 08:53:30</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 1Rm Max M1[1] -23.71 dBm 2.5700000 GHz D1 -13.000 dBm CF 2.57 GHz 501 pts Span 20.0 MHz Date: 13.OCT.2021 08:54:31</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 1Rm Max M1[1] -19.83 dBm 2.5000000 GHz D1 -13.000 dBm CF 2.5 GHz 501 pts Span 30.0 MHz Date: 13.OCT.2021 08:55:32</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 1Rm Max M1[1] -18.47 dBm 2.5700000 GHz D1 -13.000 dBm CF 2.57 GHz 501 pts Span 30.0 MHz Date: 13.OCT.2021 08:56:35</p>

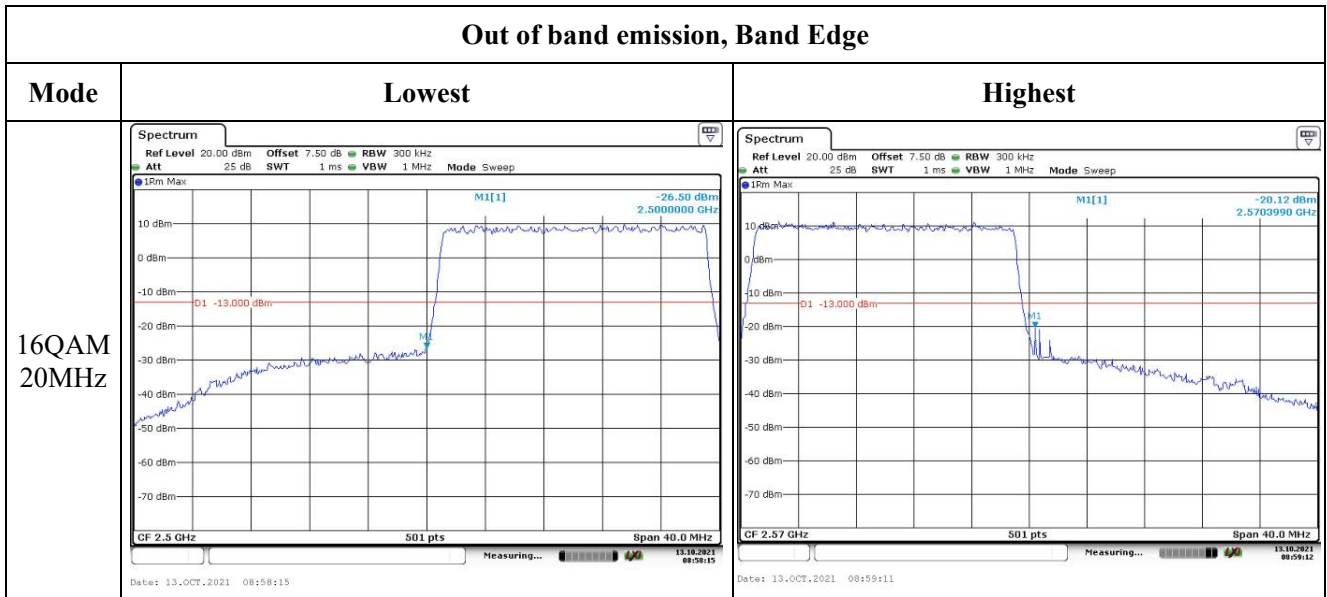
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.10 Antenna Port Test Data and Results for LTE Band 12:

Serial Number:	CR21090086-RF-S1	Test Date:	2021/10/18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Thor Lei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	26.7	Relative Humidity: (%)	59	ATM Pressure: (kPa)	101.6
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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 12▲:

Antenna Gain (dBi):	3	Antenna Gain (dBd):	0.85	Cable Loss (dB):	0.2
Operation Voltage(V _{DC}):					
Lowest:	3.6	Normal:	3.8	Highest:	4.3

Test Frequency For Each Mode:			
Operation Bandwidth	Lowest Frequency(MHz)	Middle Frequency(MHz)	Highest Frequency(MHz)
1.4MHz	699.7	707.5	715.3
3MHz	700.5	707.5	714.5
5MHz	701.5	707.5	713.5
10MHz	704	707.5	711

Test Data:**FCC§2.1046;§ 27.50(c) (10)****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	24.38	24.41	24.3	25.22	34.77
	RB1#3	24.57	24.57	24.5		
	RB1#5	24.4	24.37	24.32		
	RB3#0	24.43	24.34	24.27		
	RB3#3	24.45	24.32	24.33		
	RB6#0	23.45	23.48	23.37		
1.4MHz 16QAM	RB1#0	23.33	23.37	23.24	24.23	34.77
	RB1#3	23.51	23.58	23.48		
	RB1#5	23.35	23.43	23.25		
	RB3#0	23.57	23.22	23.33		
	RB3#3	23.56	23.24	23.34		
	RB6#0	22.48	22.44	22.28		
3MHz QPSK	RB1#0	23.91	23.89	23.82	24.72	34.77
	RB1#8	24.05	24.04	24.07		
	RB1#14	23.85	23.9	23.8		
	RB6#0	23.97	23.89	23.85		
	RB6#9	23.95	23.81	23.83		
	RB15#0	22.97	22.98	22.89		
3MHz 16QAM	RB1#0	22.86	22.89	22.74	23.72	34.77
	RB1#8	23	23.06	22.95		
	RB1#14	22.84	22.88	22.77		
	RB6#0	23.07	22.71	22.81		
	RB6#9	23.07	22.76	22.86		
	RB15#0	21.96	21.94	21.78		
5MHz QPSK	RB1#0	23.82	23.83	23.78	24.57	34.77
	RB1#13	23.9	23.9	23.84		
	RB1#24	23.87	23.92	23.8		
	RB15#0	22.79	22.91	22.81		
	RB15#10	22.95	22.82	22.85		
	RB25#0	22.82	22.81	22.77		

5MHz 16QAM	RB1#0	22.73	23	22.82	23.72	34.77
	RB1#13	22.72	23.07	22.9		
	RB1#24	22.71	23.07	22.81		
	RB15#0	21.83	21.86	21.86		
	RB15#10	21.97	21.72	21.81		
	RB25#0	21.87	21.77	21.8		
10MHz QPSK	RB1#0	23.83	23.83	23.88	24.75	34.77
	RB1#25	24.08	24.07	24.1		
	RB1#49	23.94	23.89	23.9		
	RB25#0	22.77	22.96	22.93		
	RB25#25	22.81	22.93	22.91		
	RB50#0	22.82	22.93	22.9		
10MHz 16QAM	RB1#0	23.3	22.93	22.76	24.15	34.77
	RB1#25	23.5	23.09	23.01		
	RB1#49	23.26	23.01	22.84		
	RB25#0	21.83	21.94	21.96		
	RB25#25	21.86	21.9	21.99		
	RB50#0	21.79	21.9	21.9		
					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	4.46	3.86	4.38	13	
	RB50#0	4.64	4.52	4.7	13	
10MHz 16QAM	RB1#0	5.45	4.84	4.81	13	
	RB50#0	5.68	5.51	5.51	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	1.108	1.102	1.102	1.656	1.308	1.296
1.4MHz 16QAM	1.102	1.09	1.102	1.32	1.284	1.302
3MHz QPSK	2.683	2.683	2.683	2.88	2.868	2.88
3MHz 16QAM	2.683	2.683	2.683	2.892	2.88	2.88
5MHz QPSK	4.531	4.511	4.511	5.24	5.2	5.18
5MHz 16QAM	4.511	4.551	4.551	5.2	5.18	5.22
10MHz QPSK	8.942	8.942	8.942	10	9.88	10
10MHz 16QAM	8.942	8.981	8.942	9.68	9.96	9.92

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

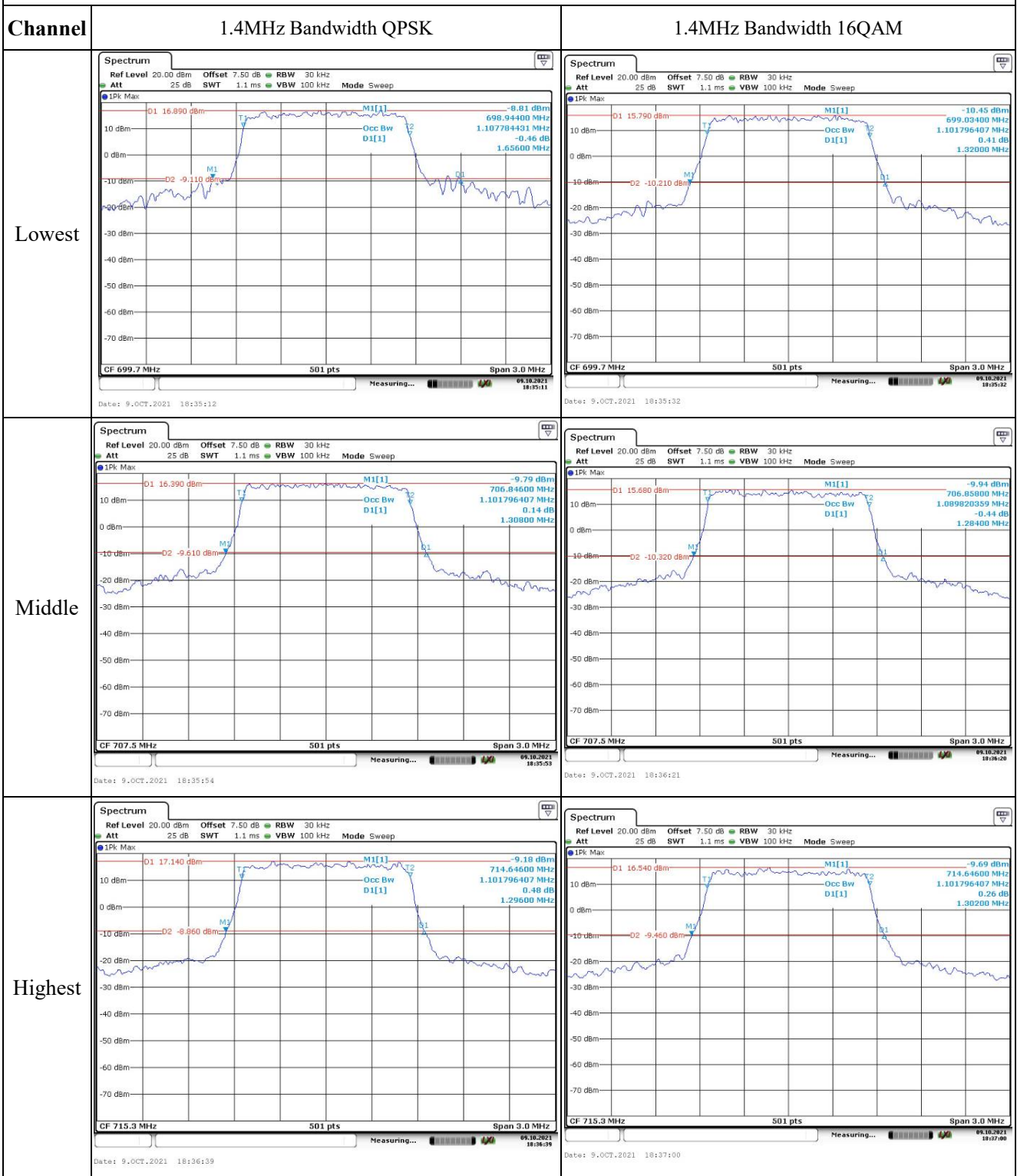
FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal**Result: Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.****FCC §2.1051, §27.53:Out of band emission, Band Edge****Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.****FCC §2.1055, §27.54: Frequency Stability**

Test Mode:	10M 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	3.8	699.5292	699.00	715.5117	716.00
	-20	3.8	699.5287	699.00	715.5115	716.00
	-10	3.8	699.5282	699.00	715.5116	716.00
	0	3.8	699.5284	699.00	715.5114	716.00
	10	3.8	699.5282	699.00	715.5131	716.00
	20	3.8	699.5289	699.00	715.511	716.00
	30	3.8	699.5287	699.00	715.5115	716.00
	40	3.8	699.5285	699.00	715.5112	716.00
Frequency Stability vs. Voltage	20	3.6	699.5282	699.00	715.5114	716.00
	20	4.3	699.5283	699.00	715.5116	716.00
					Result:	Pass

Test Mode:	10M 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	3.8	699.5287	699.00	715.5117	716.00
	-20	3.8	699.5285	699.00	715.5115	716.00
	-10	3.8	699.5292	699.00	715.5117	716.00
	0	3.8	699.5288	699.00	715.5114	716.00
	10	3.8	699.5282	699.00	715.5112	716.00
	20	3.8	699.5289	699.00	715.511	716.00
	30	3.8	699.5287	699.00	715.5118	716.00
	40	3.8	699.5282	699.00	715.5117	716.00
Frequency Stability vs. Voltage	20	3.6	699.5282	699.00	715.5117	716.00
	20	4.3	699.5284	699.00	715.5116	716.00
					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</p> <p>1Pk Max</p> <p>D1 14.510 dBm M1[1] -12.13 dBm 699.0600 MHz</p> <p>D2 -11.490 dBm D1[1] 1.06 dB 2.682634731 MHz 2.8800 MHz</p> <p>CF 700.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:37:29</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</p> <p>1Pk Max</p> <p>D1 12.520 dBm M1[1] -14.54 dBm 699.0600 MHz</p> <p>D2 -13.480 dBm D1[1] -0.42 dB 2.682634731 MHz 2.8920 MHz</p> <p>CF 700.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:37:50</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 13.710 dBm M1[1] -13.03 dBm 706.0600 MHz</p> <p>D2 -12.290 dBm D1[1] 1.50 dB 2.682634731 MHz 2.8680 MHz</p> <p>CF 707.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:38:14</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 12.490 dBm M1[1] -13.44 dBm 706.0600 MHz</p> <p>D2 -13.510 dBm D1[1] -1.24 dB 2.682634731 MHz 2.8800 MHz</p> <p>CF 707.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:38:30</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 13.090 dBm M1[1] -11.70 dBm 713.0600 MHz</p> <p>D2 -12.910 dBm D1[1] -0.63 dB 2.682634731 MHz 2.8800 MHz</p> <p>CF 714.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:39:03</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 13.090 dBm M1[1] -11.73 dBm 713.0600 MHz</p> <p>D2 -12.910 dBm D1[1] -1.63 dB 2.682634731 MHz 2.8800 MHz</p> <p>CF 714.5 MHz 501 pts Span 6.0 MHz</p> <p>Date: 9.OCT.2021 18:39:23</p>

Occupied Bandwidth

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