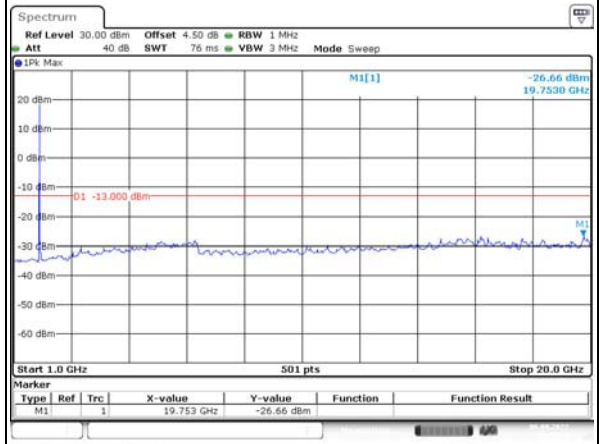
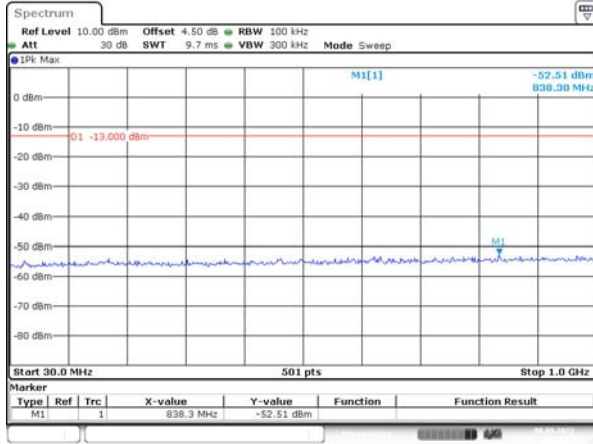


Spurious Emissions at Antenna Terminal

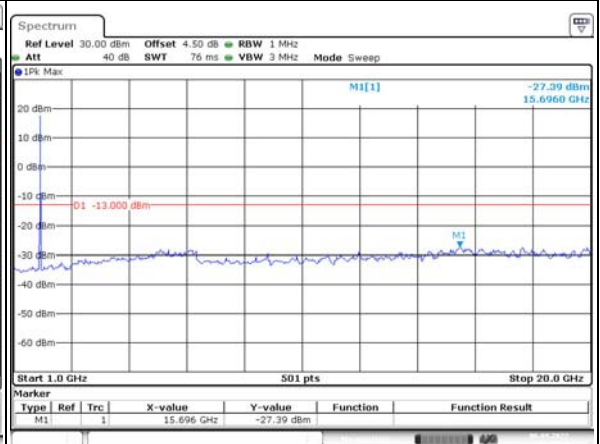
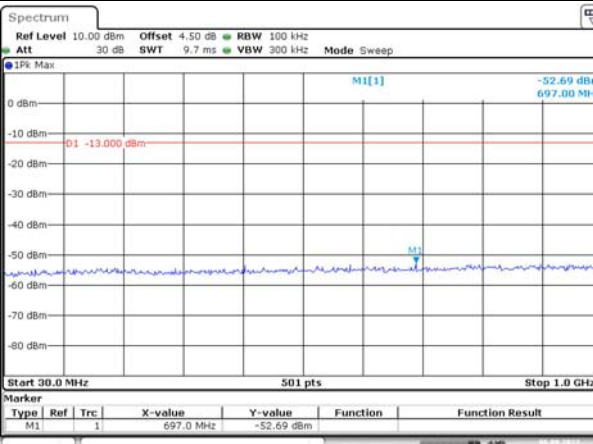
Channel

10MHz Bandwidth QPSK

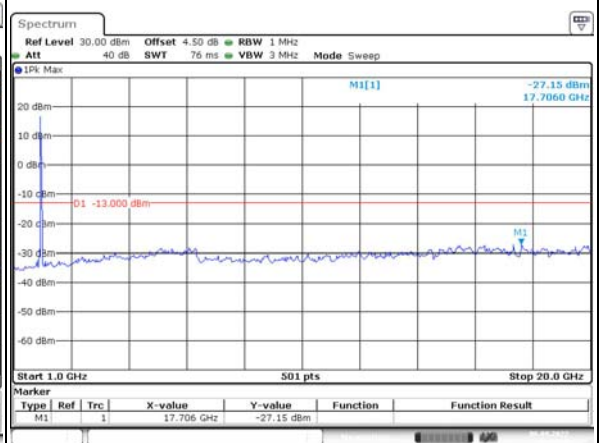
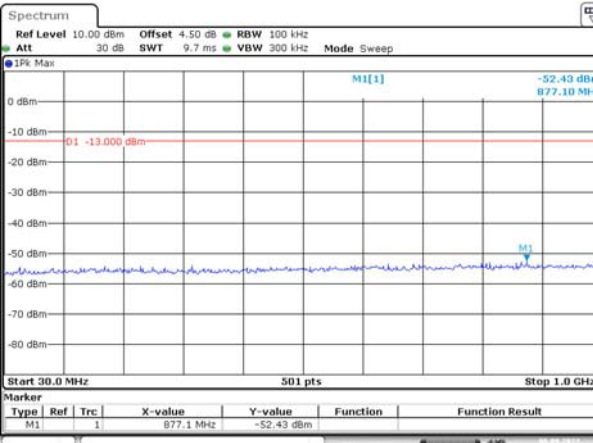
Lowest



Middle



Highest

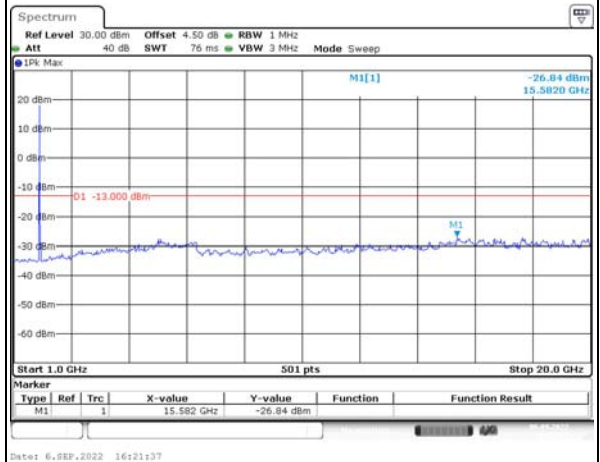
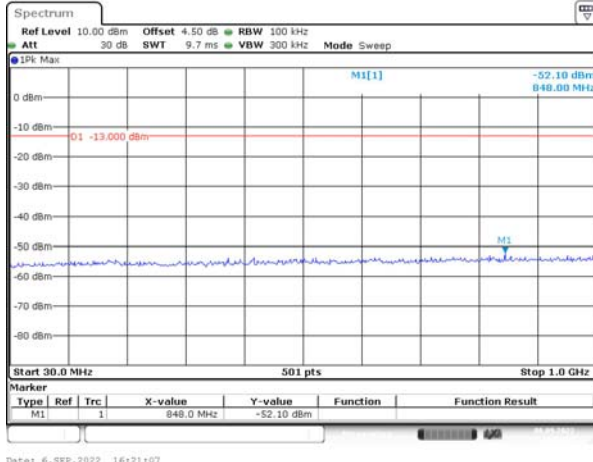


Spurious Emissions at Antenna Terminal

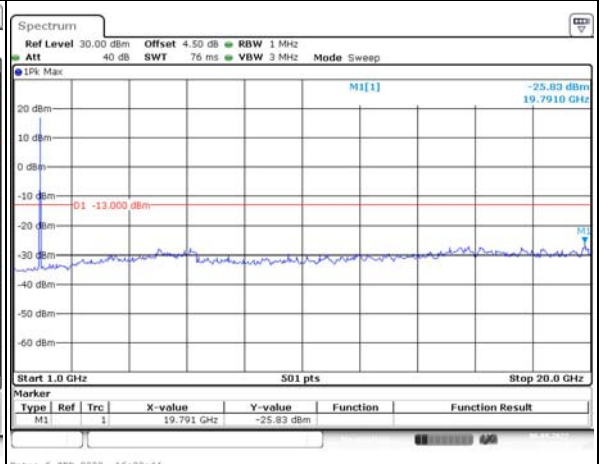
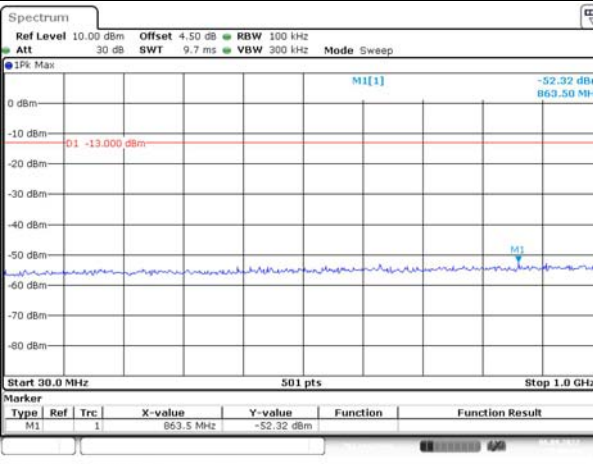
Channel

15MHz Bandwidth QPSK

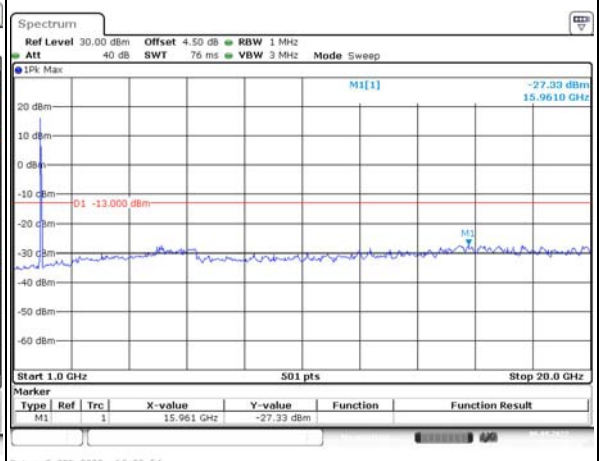
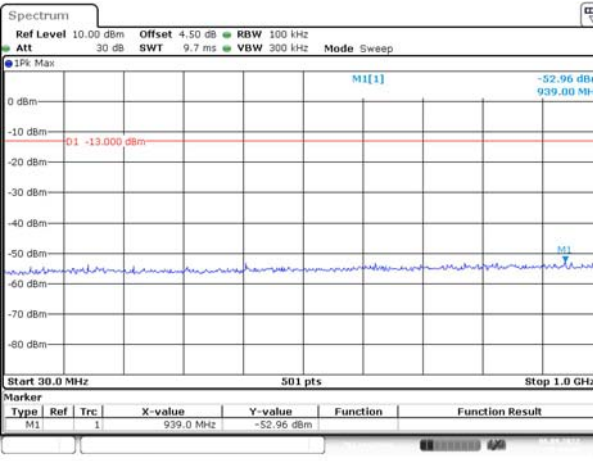
Lowest



Middle



Highest

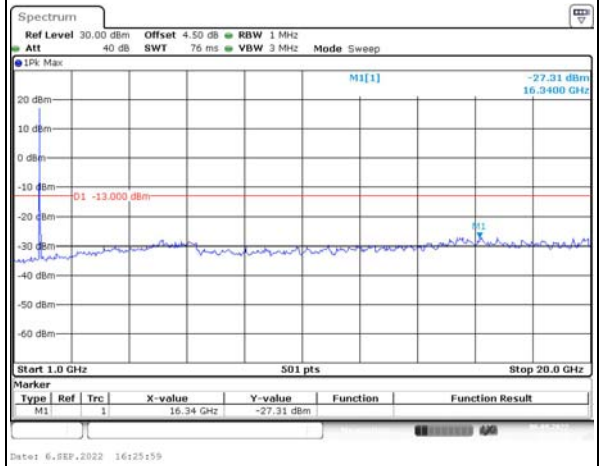
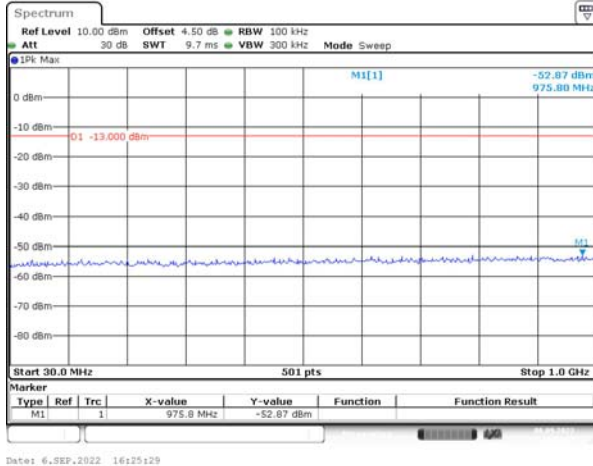


Spurious Emissions at Antenna Terminal

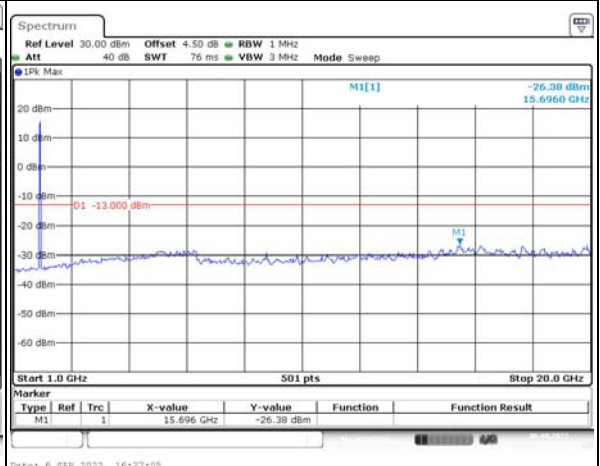
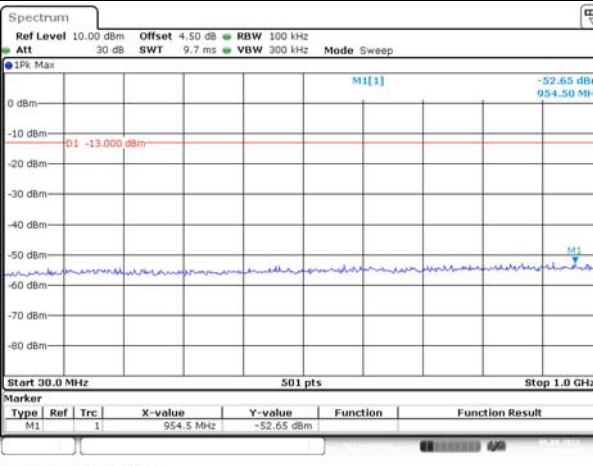
Channel

20MHz Bandwidth QPSK

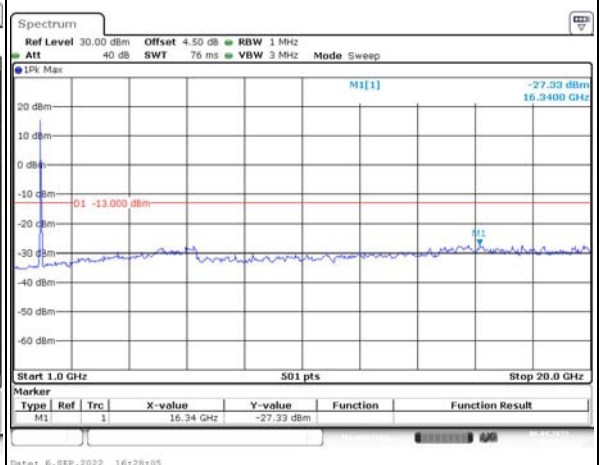
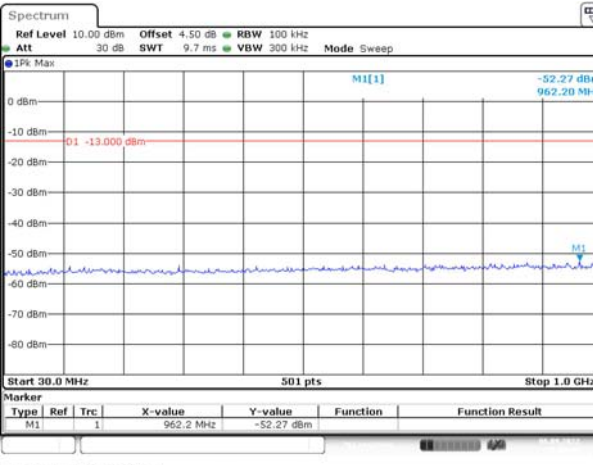
Lowest



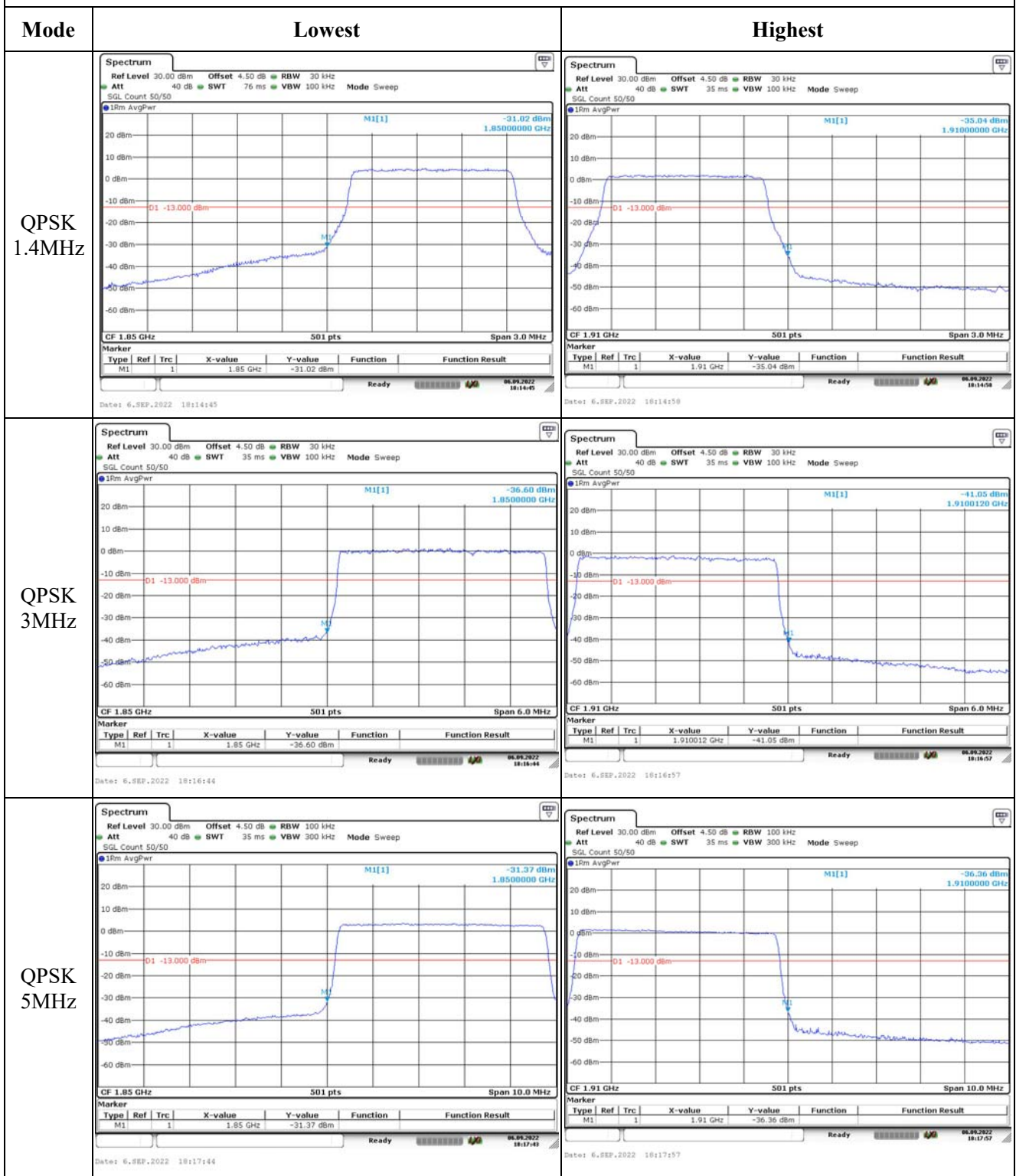
Middle



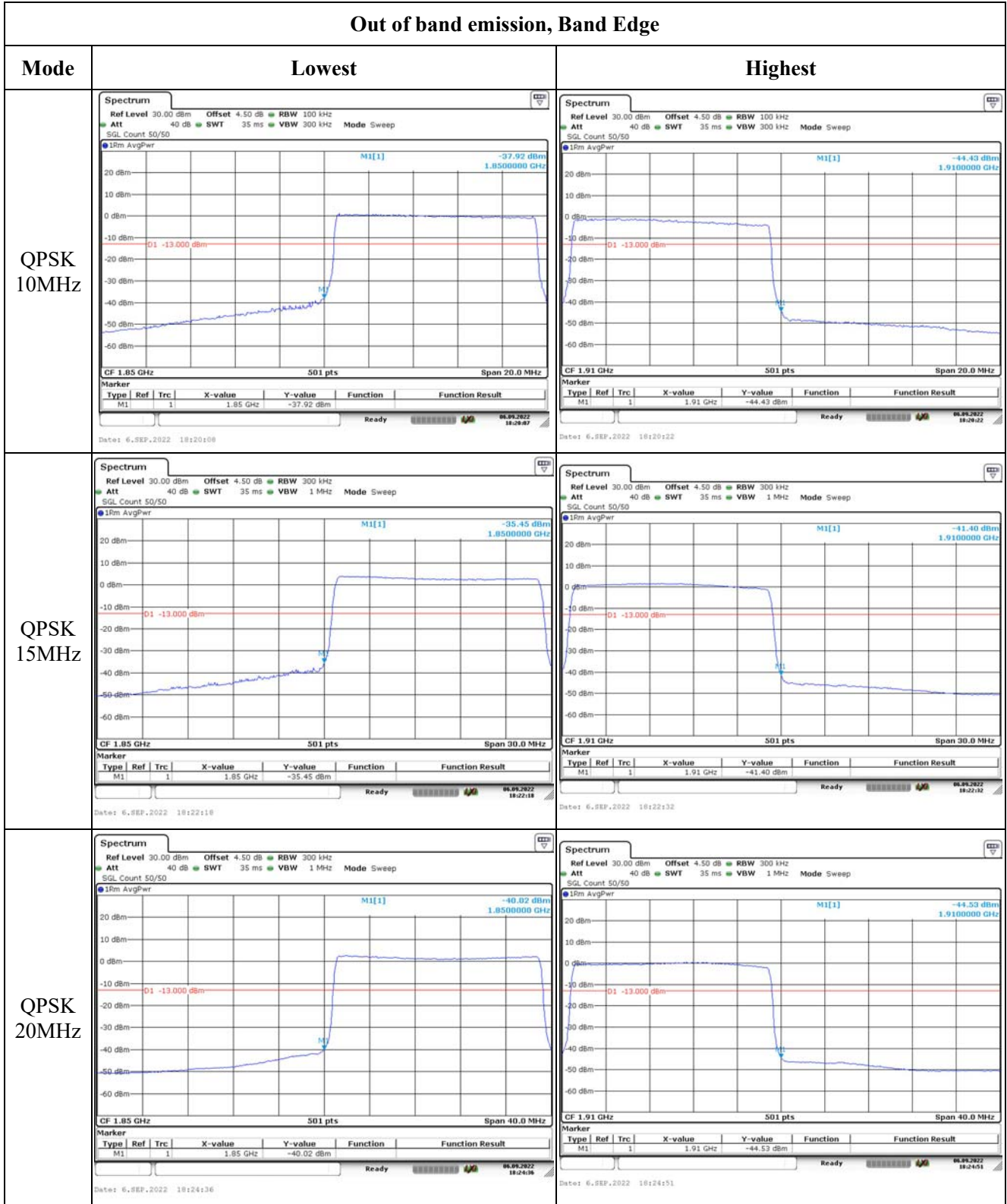
Highest



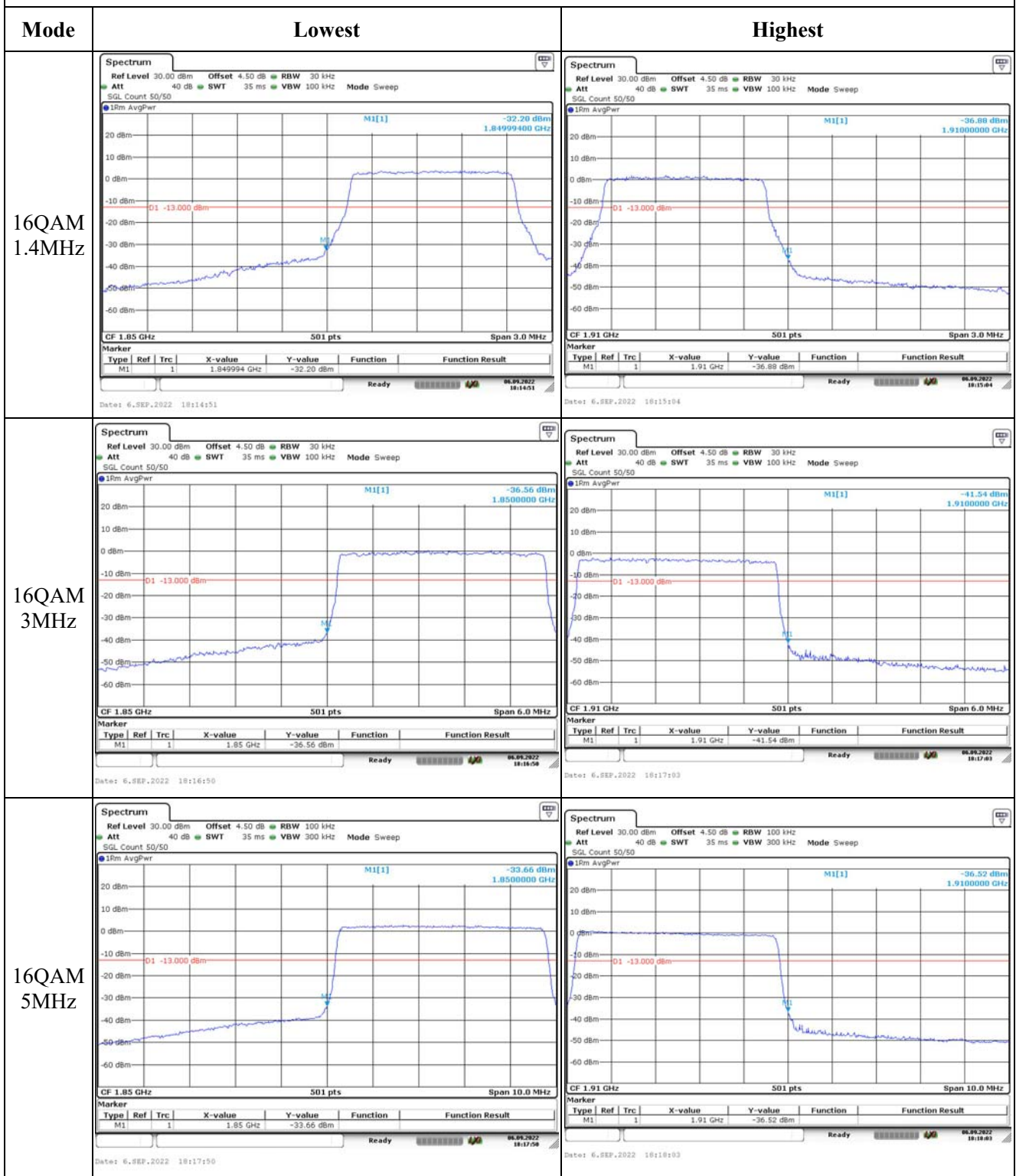
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge

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

4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	CR22090006-RF-S1	Test Date:	2022-09-06~2022-09-07
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~25.6	Relative Humidity: (%)	52~58	ATM Pressure: (kPa)	100.1~100.8
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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	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	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):	0.63	Cable Loss (dB):	0.3
Operation Voltage(V _{DC}):			
Lowest:	3.3	Normal:	3.87
		Highest:	4.45

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	24.06	24.09	24.04	24.59	30
	RB1#3	24.22	24.26	24.19		
	RB1#5	24.06	24.08	24.02		
	RB3#0	24.15	24.17	24.1		
	RB3#3	24.14	24.18	24.09		
	RB6#0	23.12	23.18	23.11		
1.4MHz 16QAM	RB1#0	23.18	23.07	22.99	23.69	30
	RB1#3	23.36	23.22	23.17		
	RB1#5	23.17	23.11	22.99		
	RB3#0	23.08	23.19	23.21		
	RB3#3	23.08	23.2	23.27		
	RB6#0	22.17	22.09	22.09		
3MHz QPSK	RB1#0	24.15	24.2	24.13	24.55	30
	RB1#8	24.19	24.22	24.16		
	RB1#14	24.16	24.2	24.11		
	RB6#0	23.12	23.16	23.13		
	RB6#9	23.15	23.16	23.14		
	RB15#0	23.15	23.16	23.12		
3MHz 16QAM	RB1#0	23.26	23.2	23.62	23.95	30
	RB1#8	23.32	23.2	23.59		
	RB1#14	23.28	23.15	23.56		
	RB6#0	22.13	22.09	22.18		
	RB6#9	22.19	22.09	22.14		
	RB15#0	22.09	22.24	22.2		
5MHz QPSK	RB1#0	24.08	24.06	23.99	24.56	30
	RB1#13	24.23	24.21	24.16		
	RB1#24	24.05	24.06	24.05		
	RB15#0	23.1	23.22	23.16		
	RB15#10	23.19	23.2	23.18		
	RB25#0	23.15	23.16	23.13		
5MHz 16QAM	RB1#0	23.32	23.16	22.9	23.81	30
	RB1#13	23.48	23.25	23.02		
	RB1#24	23.32	23.13	22.91		
	RB15#0	22.09	22.24	22.18		
	RB15#10	22.17	22.23	22.2		
	RB25#0	22.12	22.24	22.21		
10MHz QPSK	RB1#0	24.17	24.18	24.18	24.69	30
	RB1#25	24.36	24.33	24.28		
	RB1#49	24.21	24.16	24.15		

	RB25#0	23.14	23.25	23.16		
	RB25#25	23.25	23.24	23.18		
	RB50#0	23.18	23.24	23.22		
10MHz 16QAM	RB1#0	23.12	23.72	23.29	24.19	30
	RB1#25	23.3	23.86	23.38		
	RB1#49	23.16	23.69	23.25		
	RB25#0	22.24	22.29	22.23		
	RB25#25	22.34	22.33	22.25		
	RB50#0	22.2	22.27	22.21		
15MHz QPSK	RB1#0	24.04	24.12	24.06	24.58	30
	RB1#38	24.22	24.25	24.17		
	RB1#74	24.12	24.1	24.05		
	RB36#0	23.25	23.3	23.28		
	RB36#39	23.32	23.3	23.27		
	RB75#0	23.28	23.3	23.3		
15MHz 16QAM	RB1#0	23.15	23.45	23.59	24.03	30
	RB1#38	23.33	23.56	23.7		
	RB1#74	23.25	23.44	23.56		
	RB36#0	22.18	22.19	22.24		
	RB36#39	22.26	22.25	22.23		
	RB75#0	22.26	22.24	22.27		
20MHz QPSK	RB1#0	23.85	23.95	23.9	24.73	30
	RB1#50	24.33	24.36	24.4		
	RB1#99	23.95	24	23.94		
	RB50#0	23.14	23.2	23.17		
	RB50#50	23.21	23.22	23.18		
	RB100#0	23.18	23.21	23.19		
20MHz 16QAM	RB1#0	23.41	23.24	23.1	24.16	30
	RB1#50	23.83	23.62	23.54		
	RB1#99	23.51	23.29	23.12		
	RB50#0	22.14	22.2	22.2		
	RB50#50	22.21	22.2	22.16		
	RB100#0	22.22	22.25	22.2		

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

Result:

Pass

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.32	4.81	3.54	13
	RB100#0	5.01	5.01	4.49	13
20MHz 16QAM	RB1#0	4.93	5.22	4.7	13
	RB100#0	6.09	5.97	5.42	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	1.096	1.102	1.102	1.308	1.29	1.332
1.4MHz 16QAM	1.102	1.096	1.102	1.332	1.296	1.314
3MHz QPSK	2.695	2.695	2.683	2.88	2.868	2.904
3MHz 16QAM	2.683	2.683	2.683	2.904	2.88	2.88
5MHz QPSK	4.491	4.511	4.511	4.94	4.94	4.96
5MHz 16QAM	4.531	4.491	4.531	4.96	4.94	4.96
10MHz QPSK	8.942	8.942	8.942	9.68	9.6	9.6
10MHz 16QAM	8.942	8.942	8.942	9.56	9.64	9.6
15MHz QPSK	13.533	13.473	13.473	14.82	14.76	14.76
15MHz 16QAM	13.533	13.473	13.473	14.76	14.7	14.7
20MHz QPSK	17.964	17.964	17.964	19.36	19.28	19.52
20MHz 16QAM	17.964	17.964	17.964	19.28	19.36	20

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.

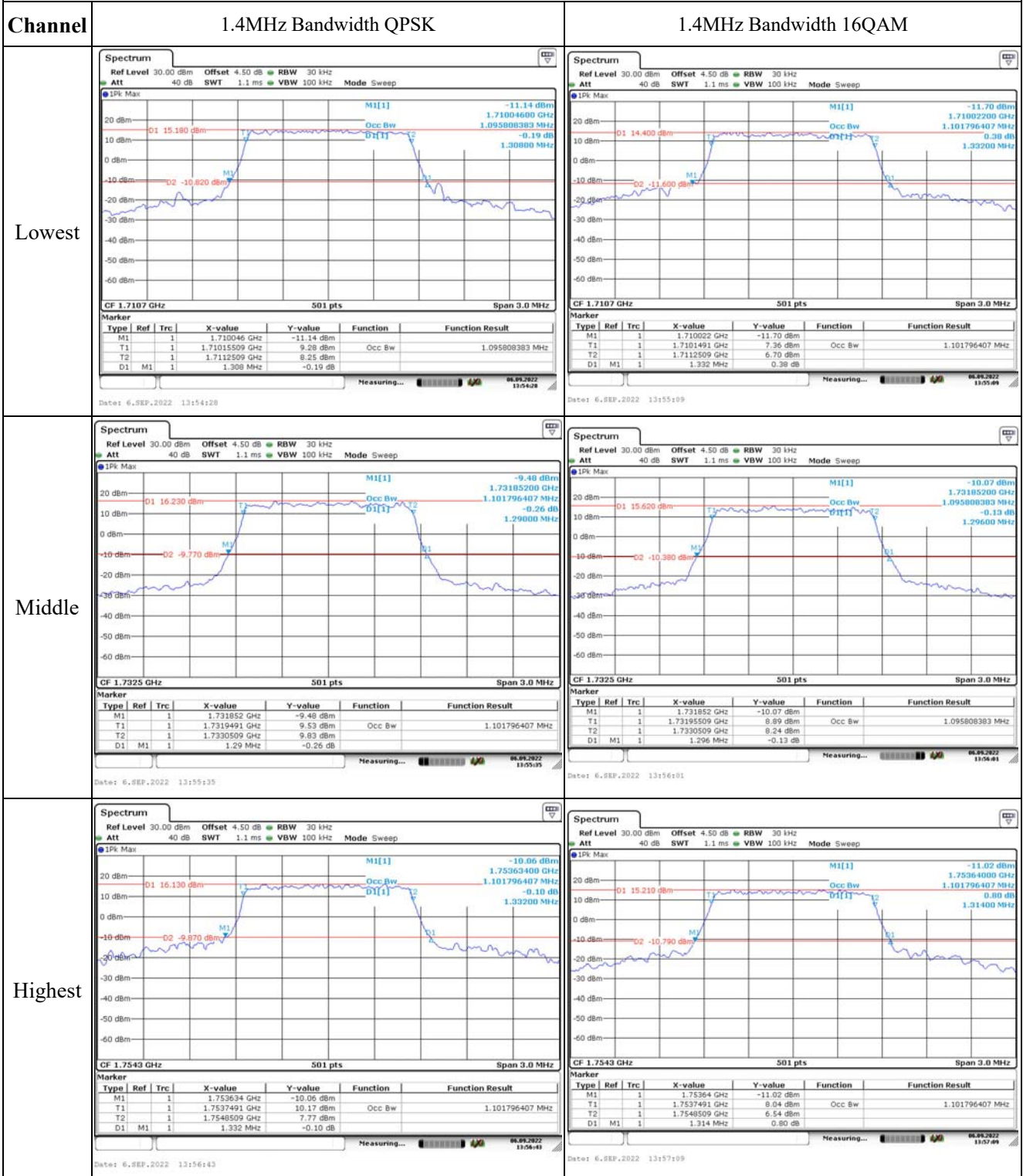
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.87	1711.086	1710.00	1754.089	1755
	-20	3.87	1711.007	1710.00	1754.089	1755
	-10	3.87	1711.026	1710.00	1754.060	1755
	0	3.87	1711.029	1710.00	1754.060	1755
	10	3.87	1711.013	1710.00	1754.049	1755
	20	3.87	1711.058	1710.00	1754.022	1755
	30	3.87	1711.067	1710.00	1754.038	1755
	40	3.87	1711.084	1710.00	1754.050	1755
Frequency Stability vs. Voltage	20	3.3	1711.048	1710.00	1754.067	1755
	20	4.45	1711.030	1710.00	1754.060	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	3.87	1711.010	1710.00	1754.084	1755
	-20	3.87	1711.078	1710.00	1754.021	1755
	-10	3.87	1711.085	1710.00	1754.041	1755
	0	3.87	1711.037	1710.00	1754.076	1755
	10	3.87	1711.086	1710.00	1754.097	1755
	20	3.87	1711.058	1710.00	1754.022	1755
	30	3.87	1711.003	1710.00	1754.029	1755
	40	3.87	1711.024	1710.00	1754.030	1755
Frequency Stability vs. Voltage	20	3.3	1711.029	1710.00	1754.019	1755
	20	4.45	1711.013	1710.00	1754.073	1755
					Result:	Pass

Test Plots:

Occupied Bandwidth



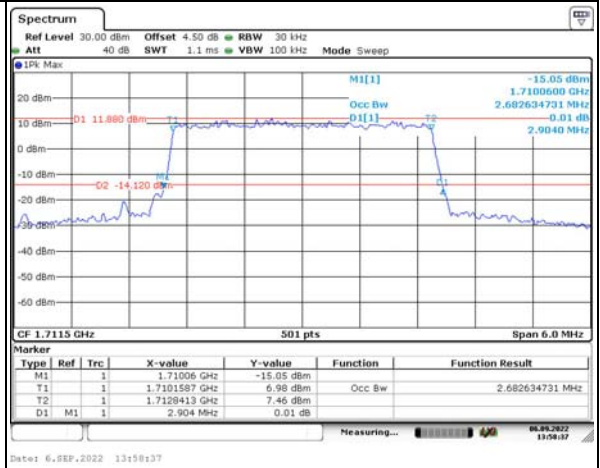
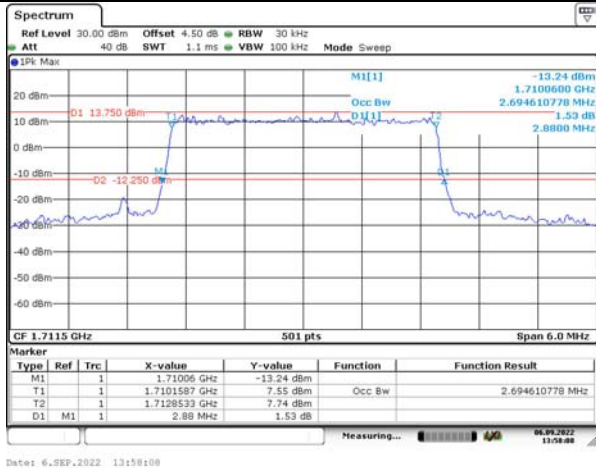
Occupied Bandwidth

Channel

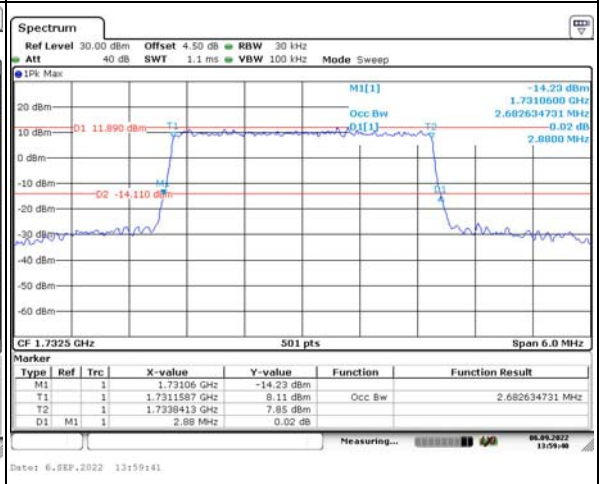
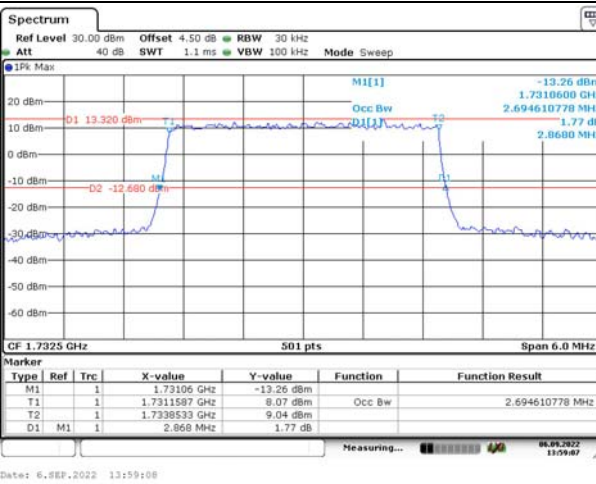
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

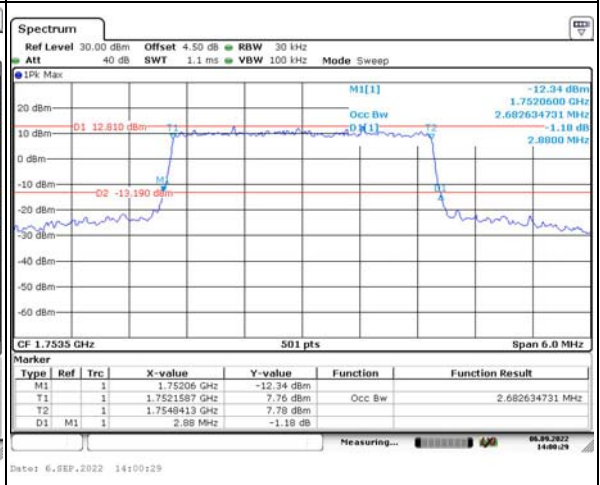
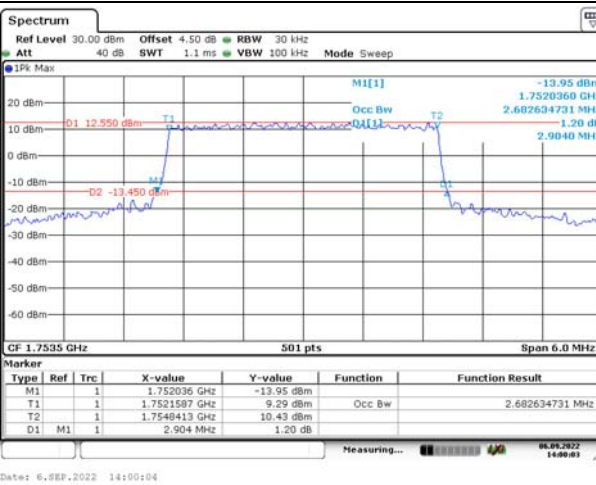
Lowest



Middle



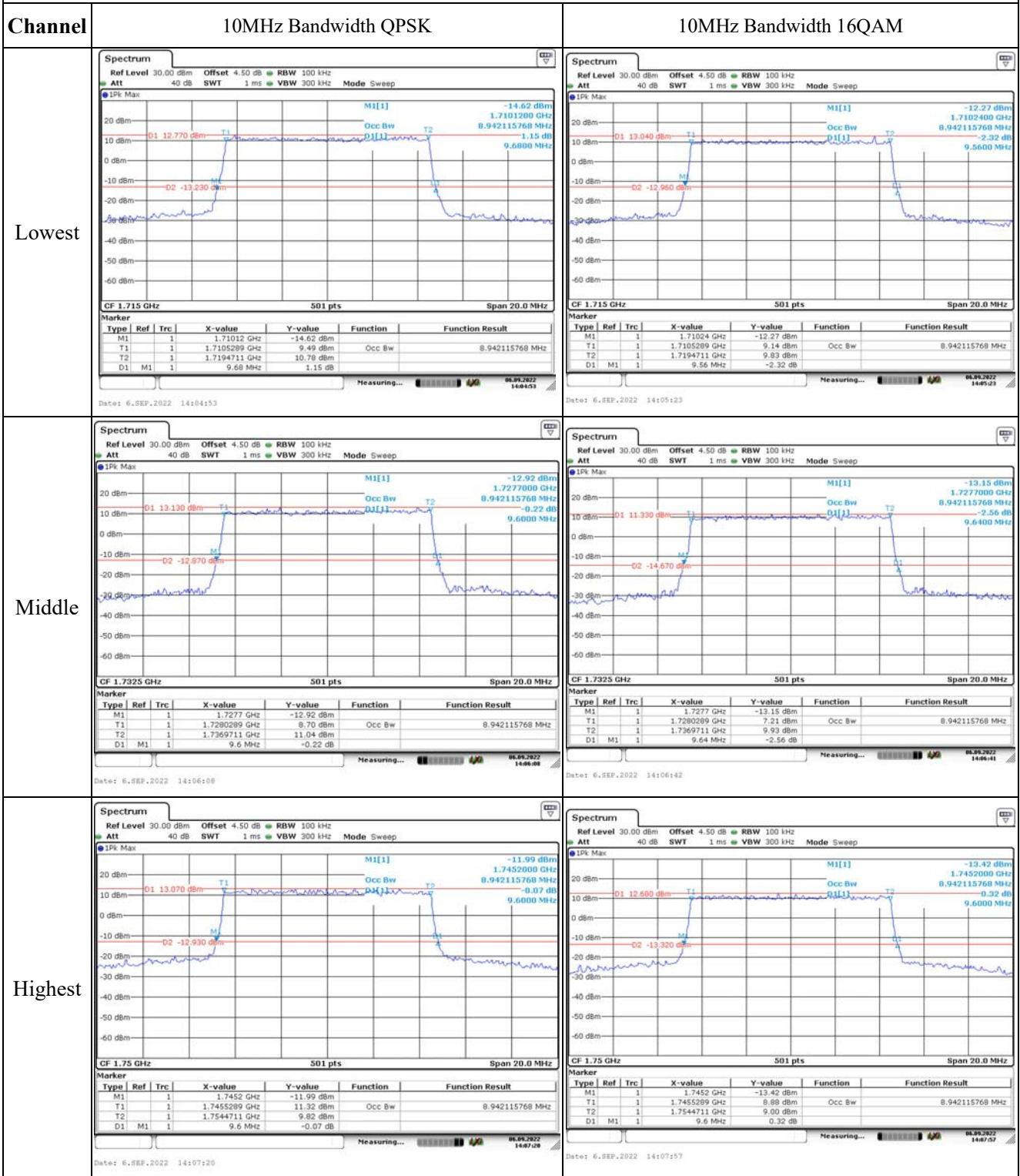
Highest



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM																																																																						
Lowest	<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.71004 GHz</td> <td>-11.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7102645 GHz</td> <td>10.96 dBm</td> <td>Occ Bw</td> <td>4.491017964 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7147555 GHz</td> <td>10.70 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.94 MHz</td> <td>0.99 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71004 GHz	-11.60 dBm			T1	1		1.7102645 GHz	10.96 dBm	Occ Bw	4.491017964 MHz	T2	1		1.7147555 GHz	10.70 dBm			D1	M1	1	4.94 MHz	0.99 dB			<table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.71002 GHz</td> <td>-12.49 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7102645 GHz</td> <td>8.69 dBm</td> <td>Occ Bw</td> <td>4.530938124 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7147554 GHz</td> <td>8.53 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.96 MHz</td> <td>0.17 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71002 GHz	-12.49 dBm			T1	1		1.7102645 GHz	8.69 dBm	Occ Bw	4.530938124 MHz	T2	1		1.7147554 GHz	8.53 dBm			D1	M1	1	4.96 MHz	0.17 dB		
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Occupied Bandwidth



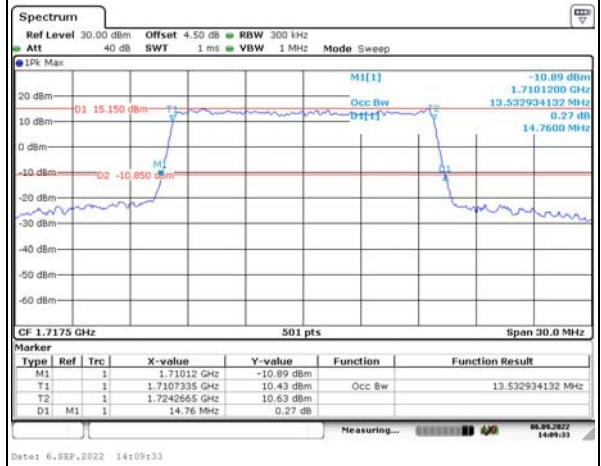
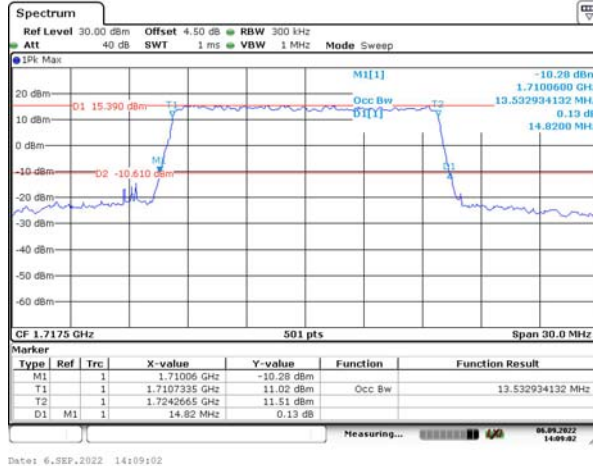
Occupied Bandwidth

Channel

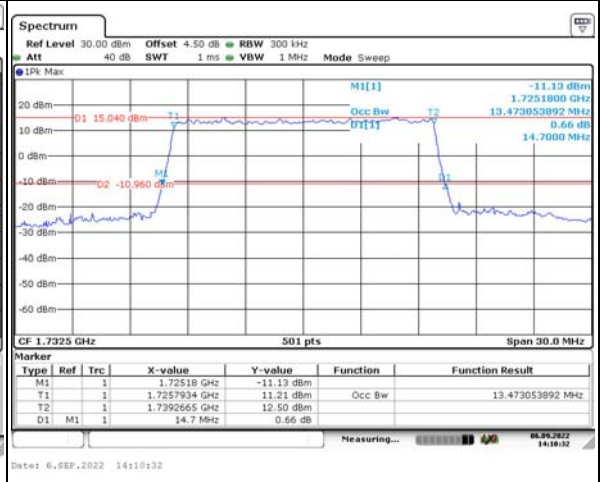
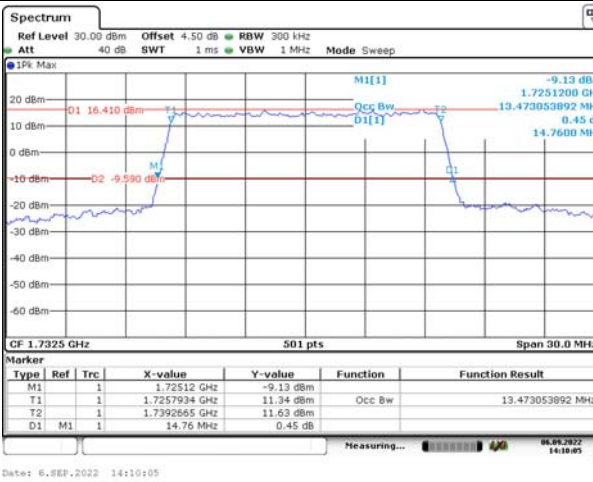
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

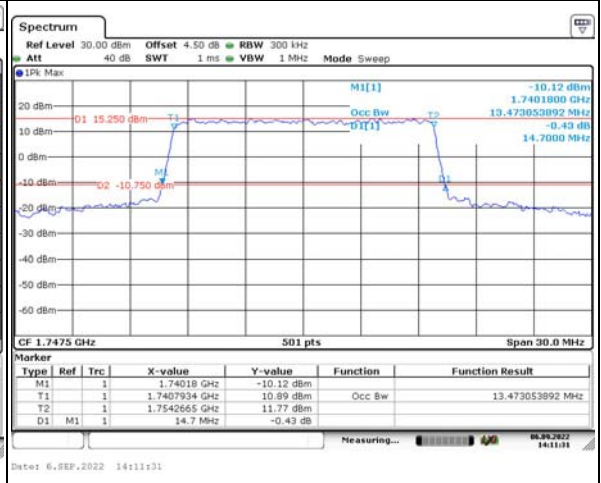
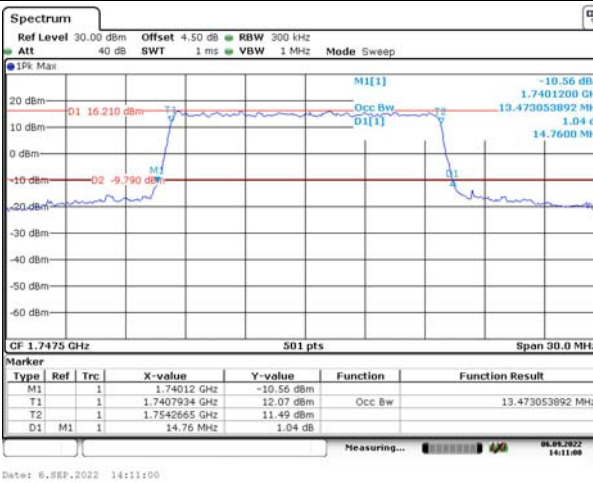
Lowest



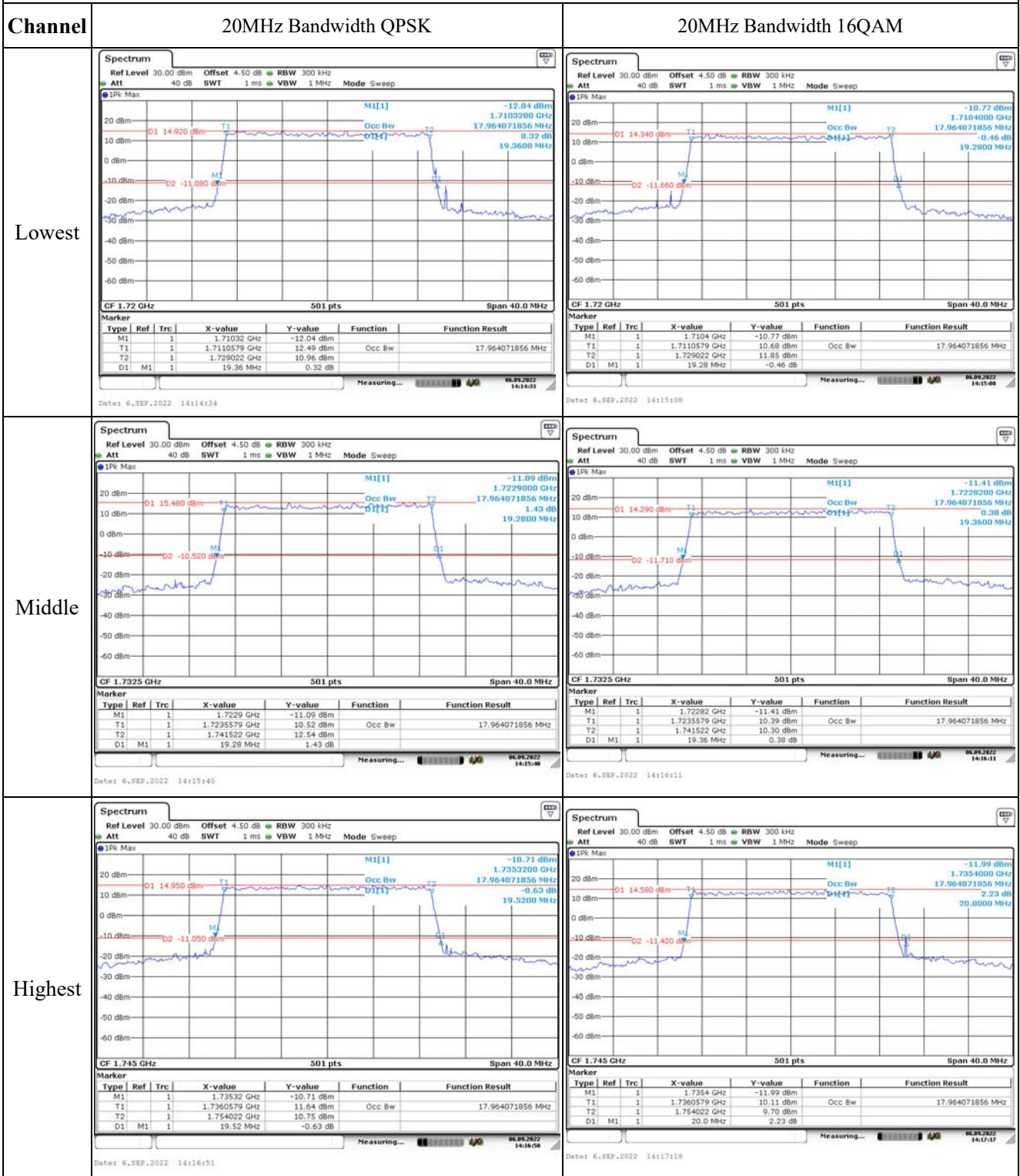
Middle



Highest



Occupied Bandwidth

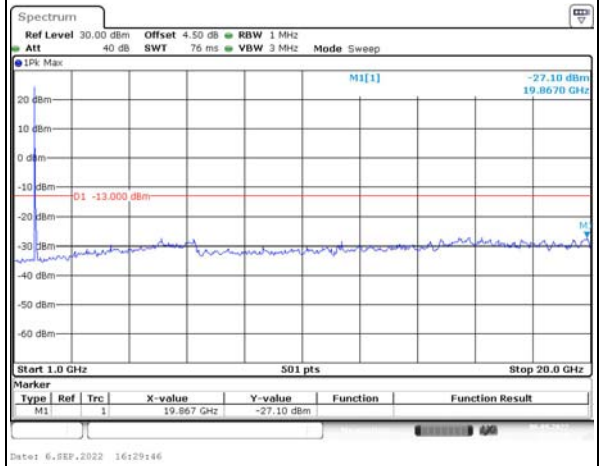
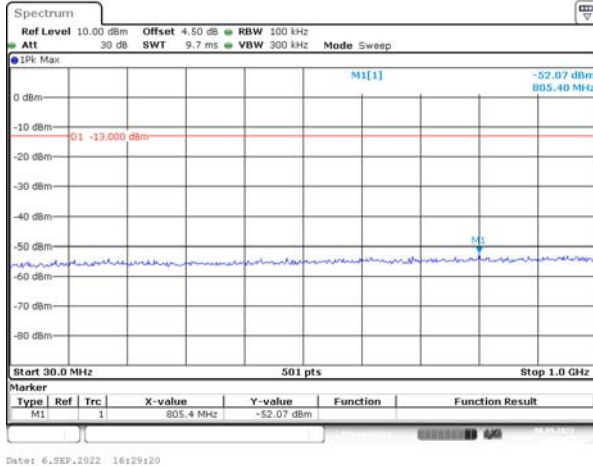


Spurious Emissions at Antenna Terminal

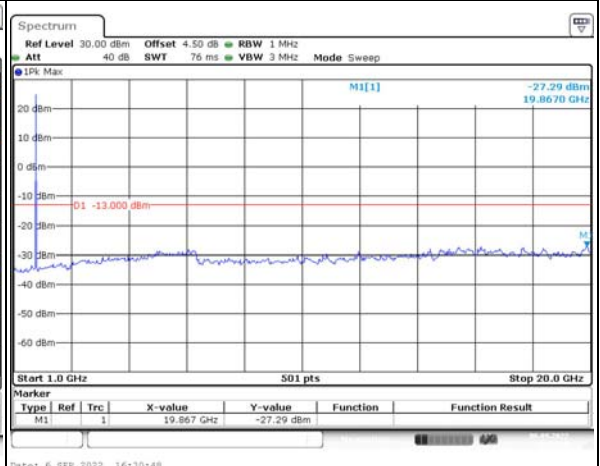
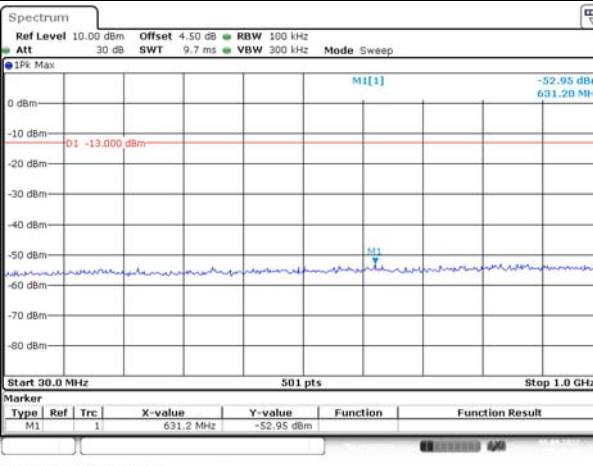
Channel

1.4MHz Bandwidth QPSK

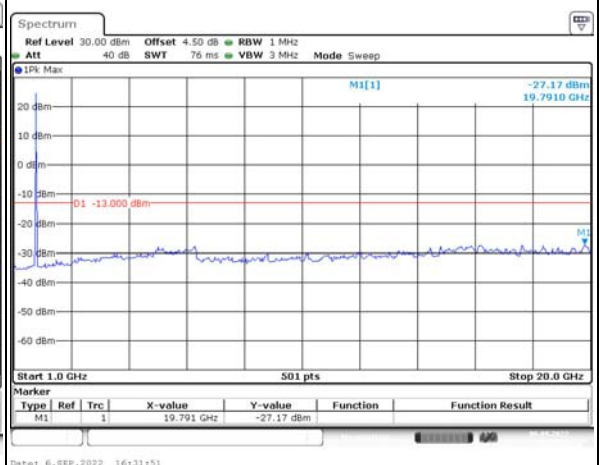
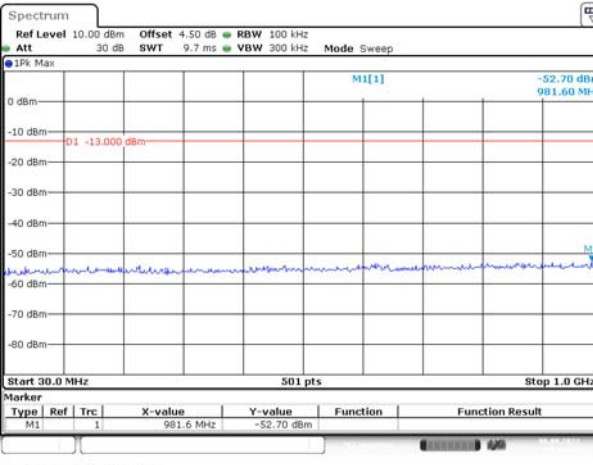
Lowest



Middle



Highest

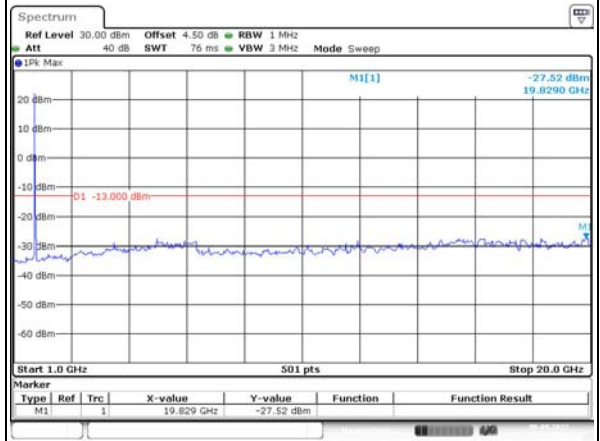
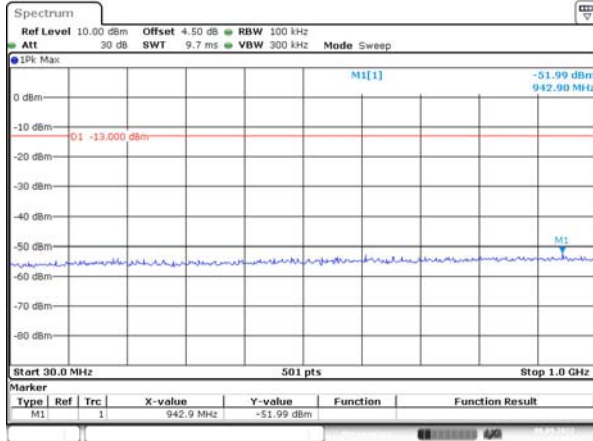


Spurious Emissions at Antenna Terminal

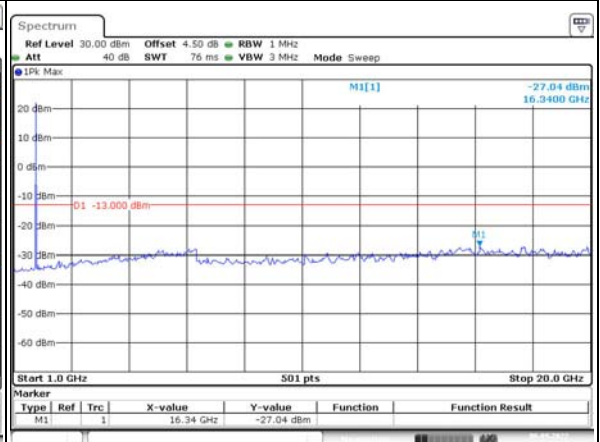
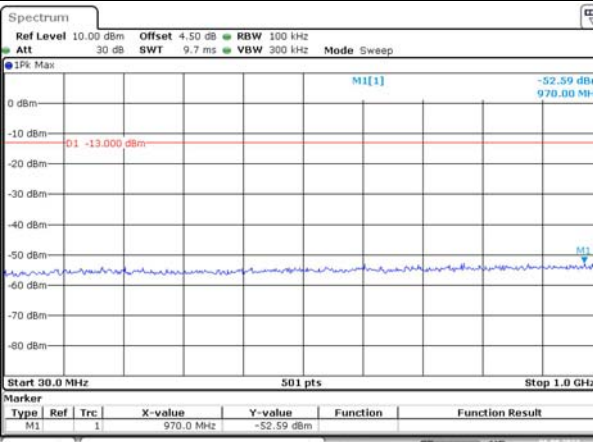
Channel

3MHz Bandwidth QPSK

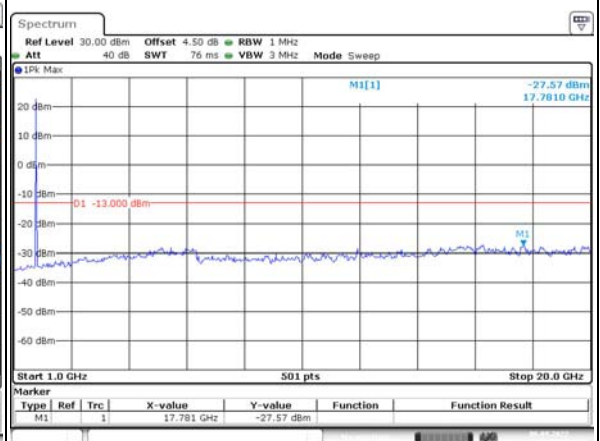
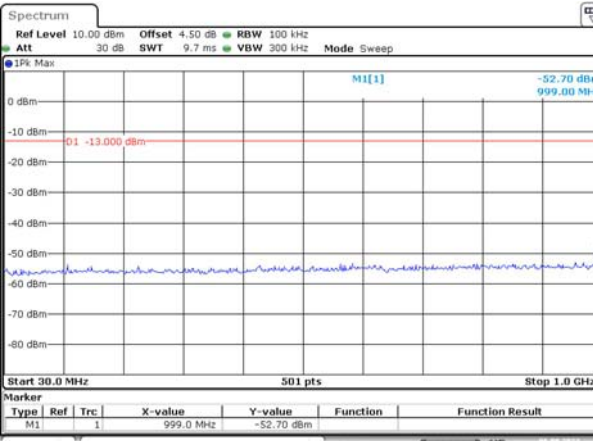
Lowest



Middle



Highest

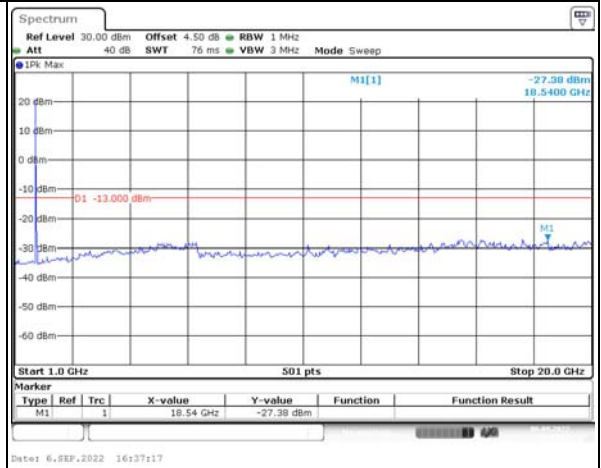
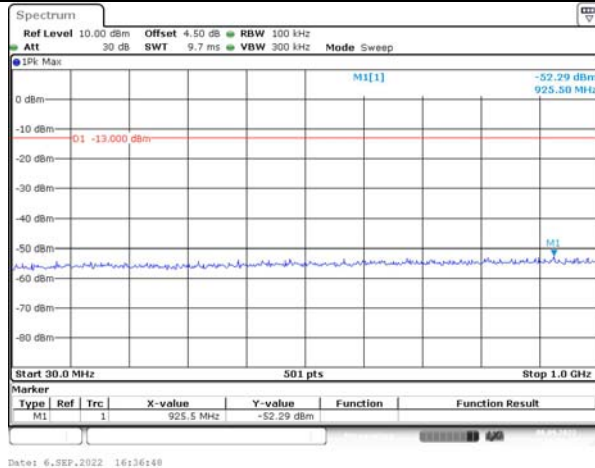


Spurious Emissions at Antenna Terminal

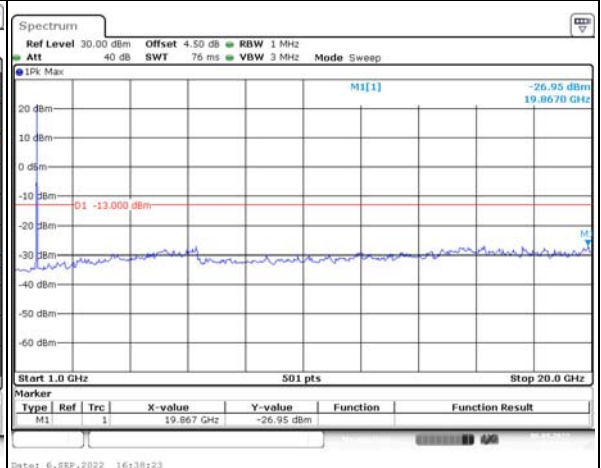
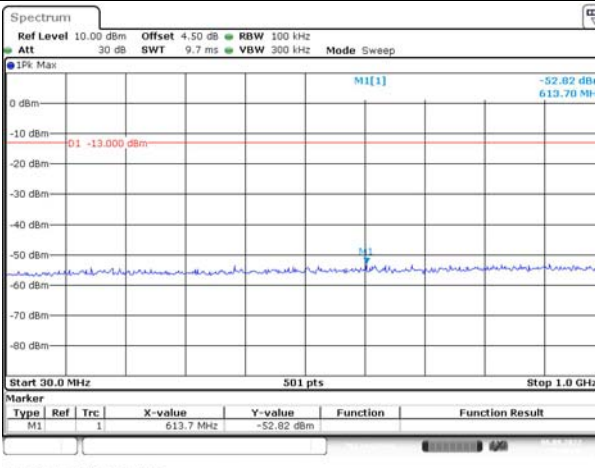
Channel

5MHz Bandwidth QPSK

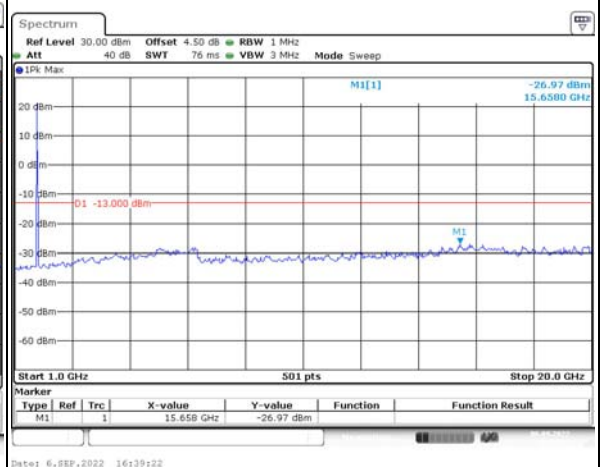
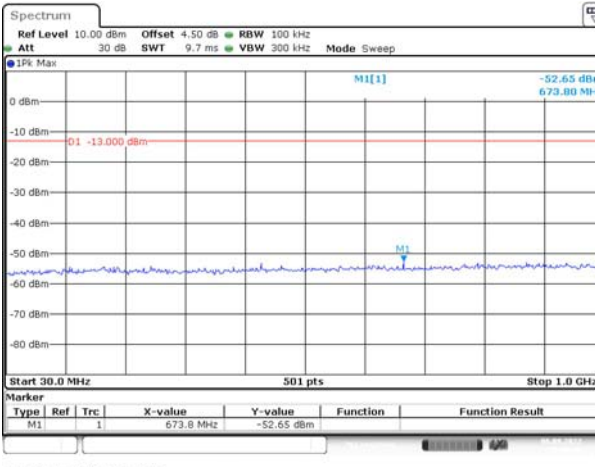
Lowest



Middle



Highest

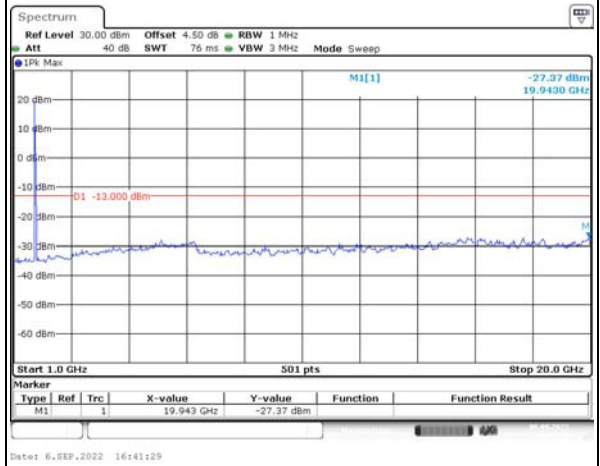
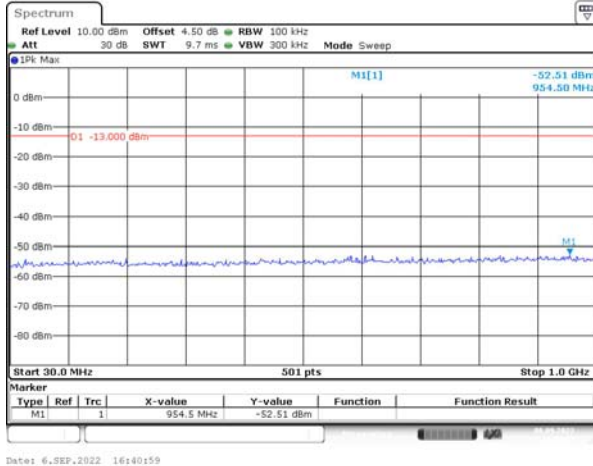


Spurious Emissions at Antenna Terminal

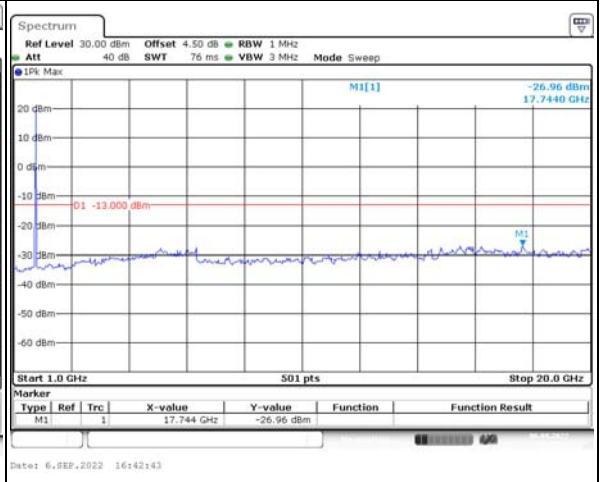
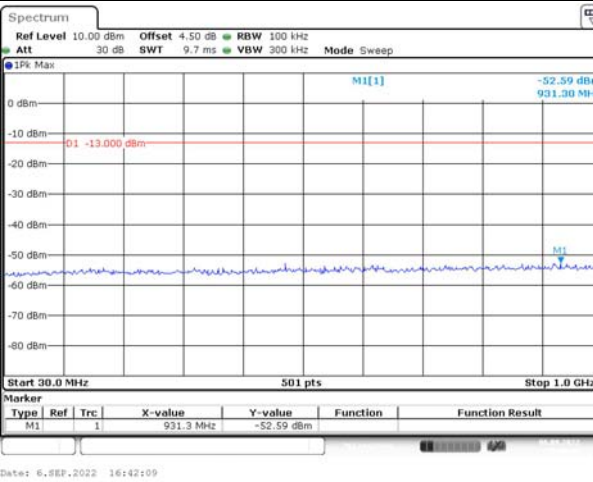
Channel

10MHz Bandwidth QPSK

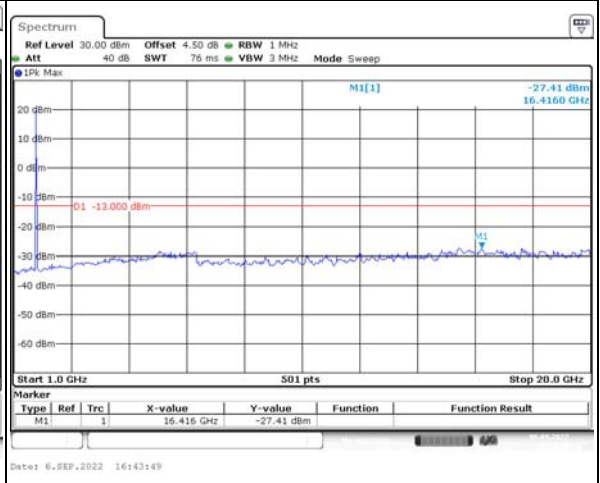
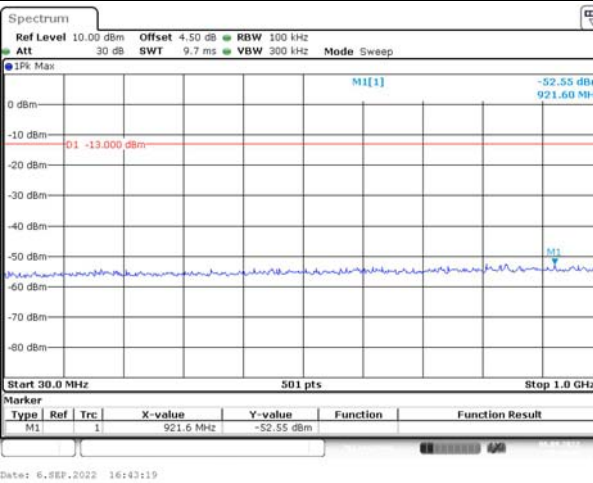
Lowest



Middle



Highest

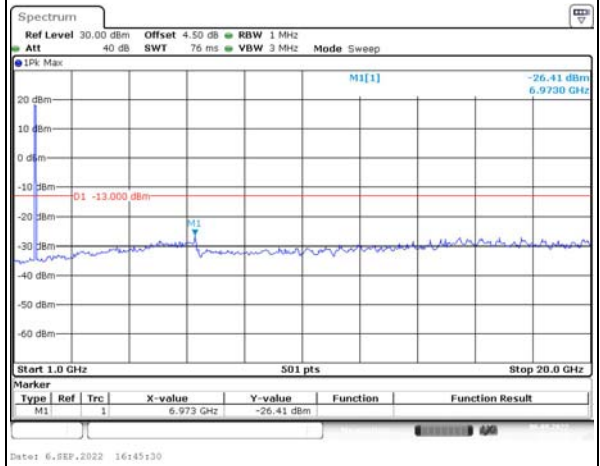
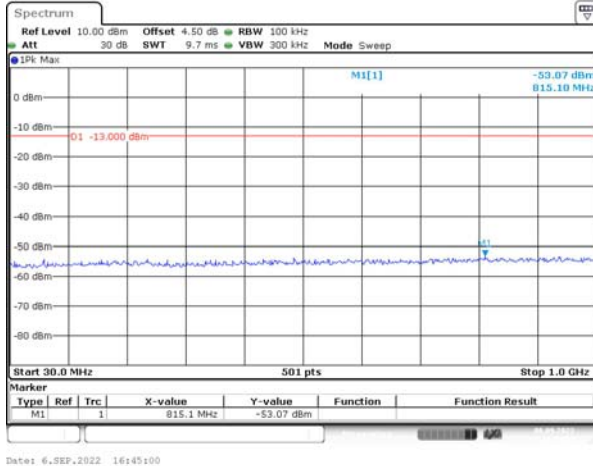


Spurious Emissions at Antenna Terminal

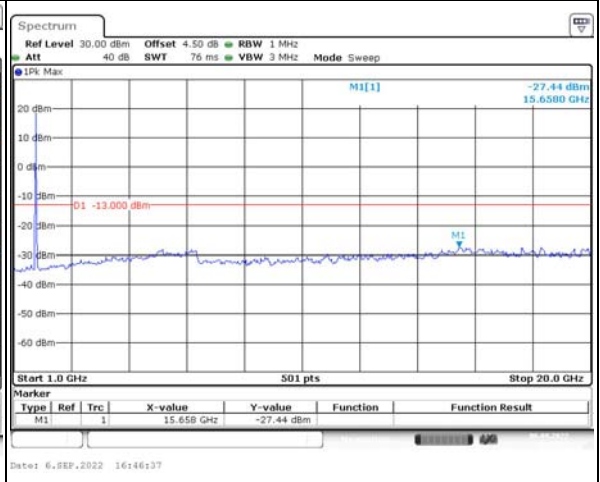
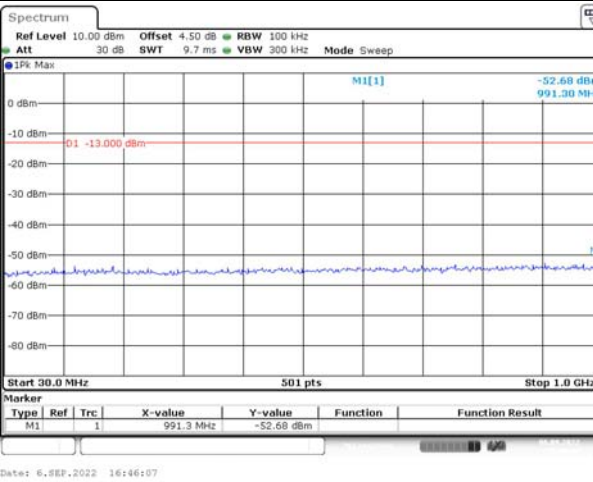
Channel

15MHz Bandwidth QPSK

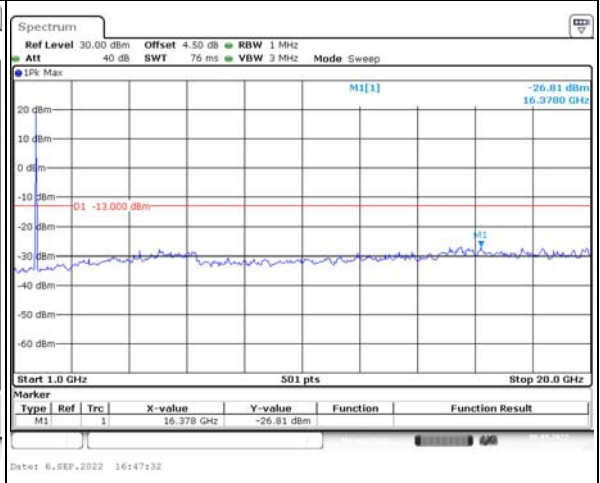
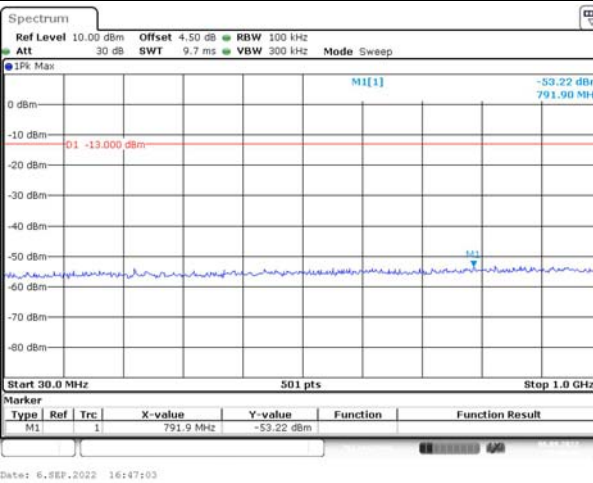
Lowest



Middle



Highest

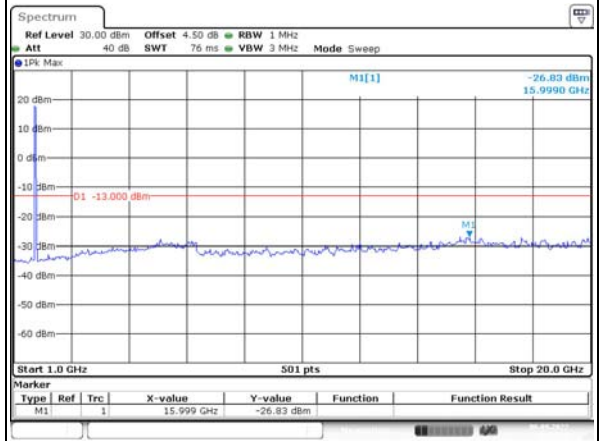
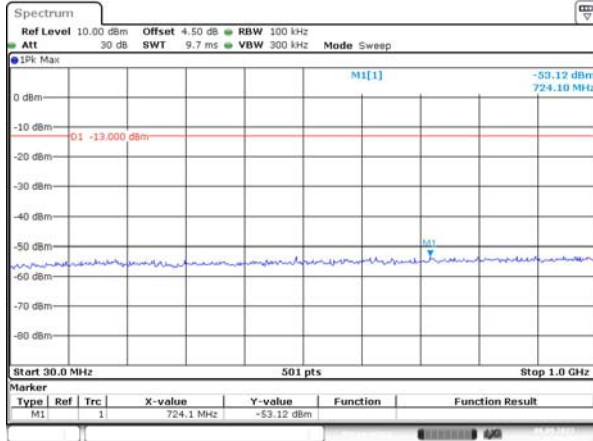


Spurious Emissions at Antenna Terminal

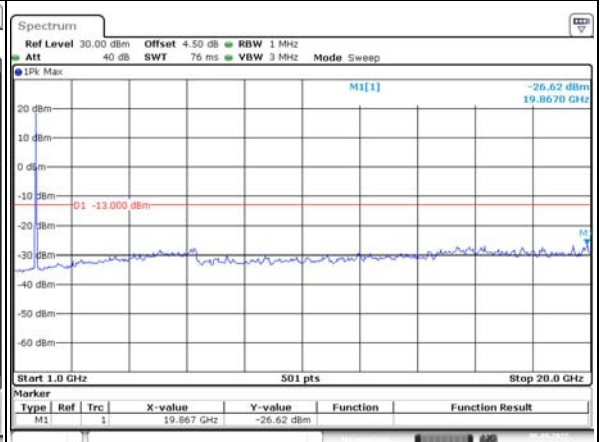
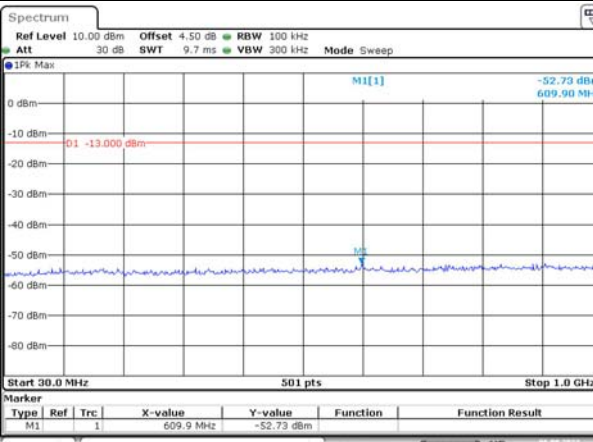
Channel

20MHz Bandwidth QPSK

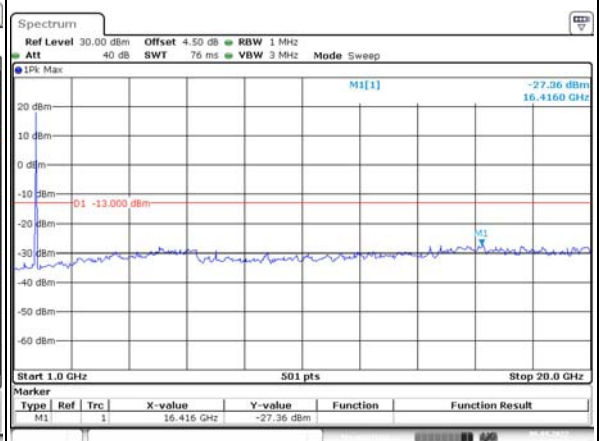
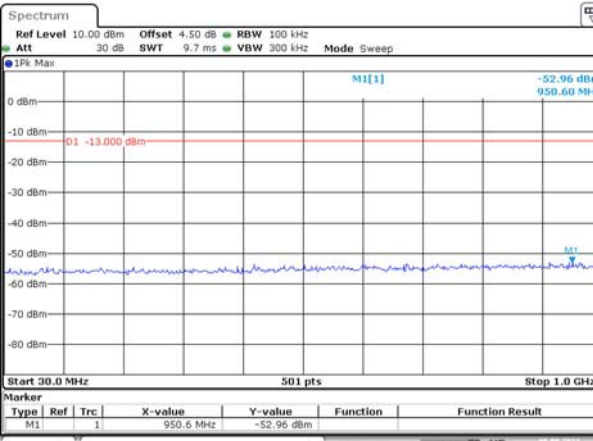
Lowest



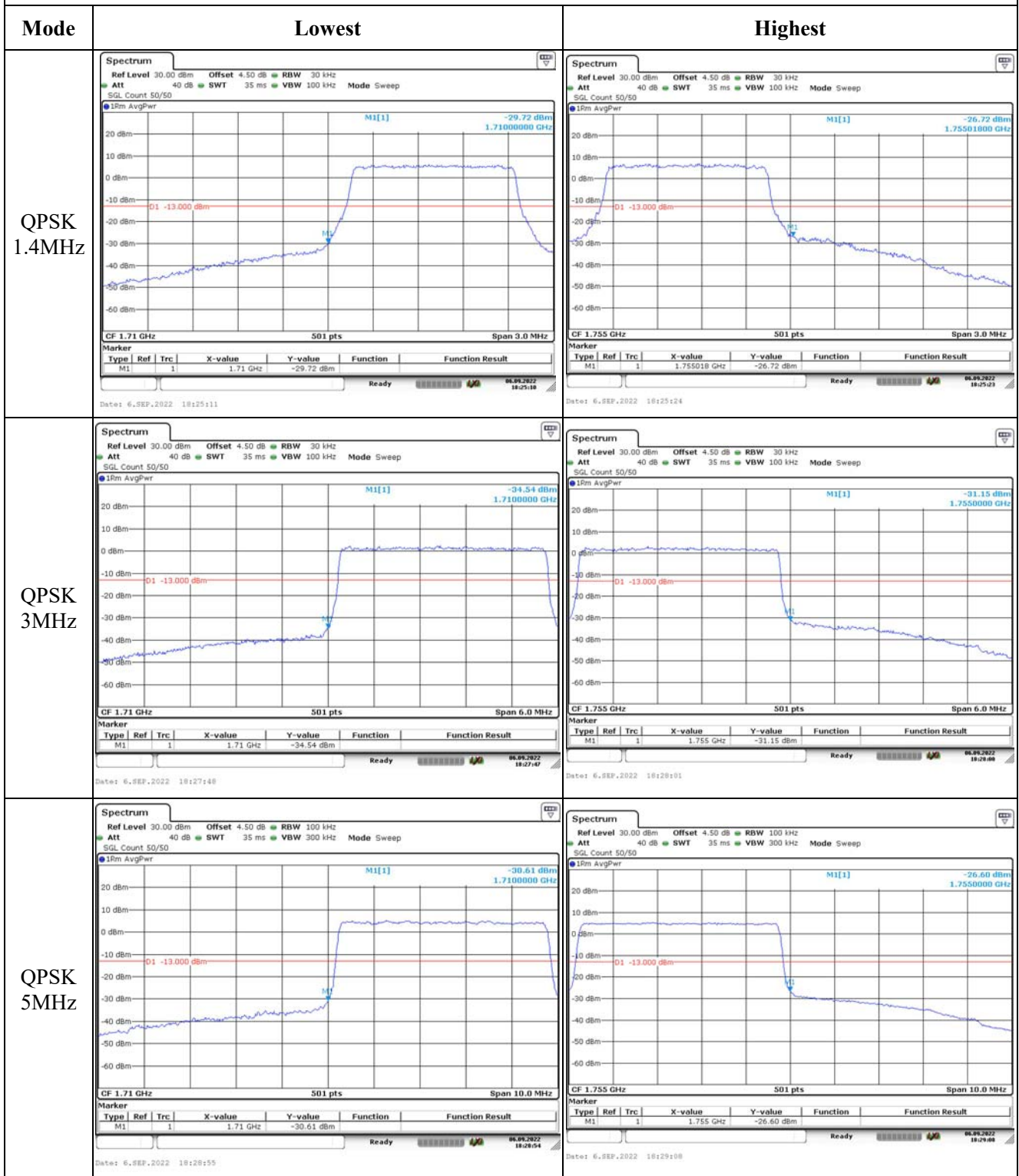
Middle



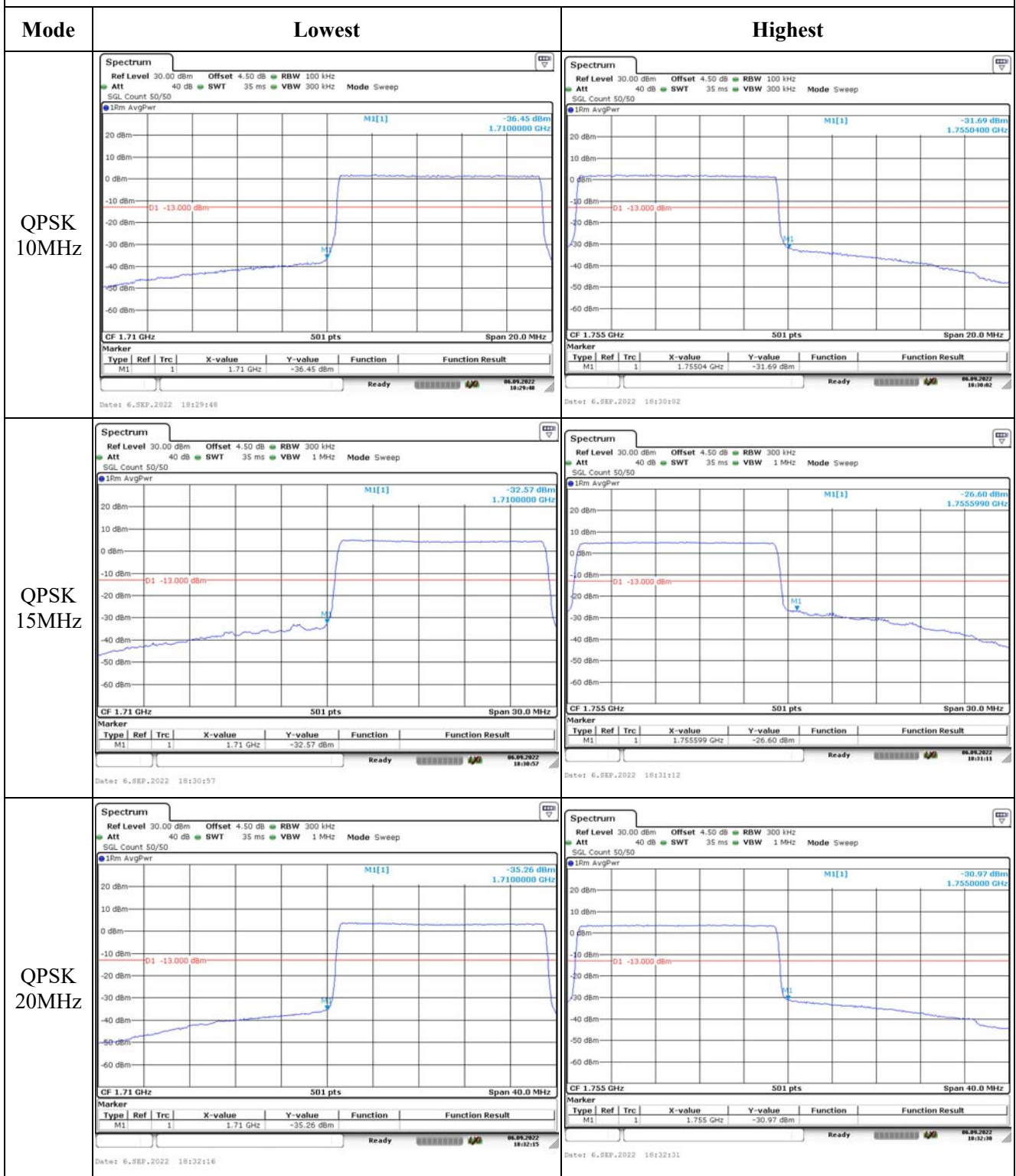
Highest



Out of band emission, Band Edge



Out of band emission, Band Edge



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>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -38.05 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Marker <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.71 GHz</td> <td>-38.05 dBm</td> <td></td> <td></td> </tr> </tbody> </table> Date: 6.SEP.2022 18:29:55</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71 GHz	-38.05 dBm			<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -34.50 dBm 1.7550000 GHz -13.000 dBm CF 1.755 GHz 501 pts Span 20.0 MHz Marker <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.755 GHz</td> <td>-34.50 dBm</td> <td></td> <td></td> </tr> </tbody> </table> Date: 6.SEP.2022 18:30:09</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.755 GHz	-34.50 dBm		
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4.8 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	CR22090006-RF-S1	Test Date:	2022-09-06~2022-09-07
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chan	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~25.6	Relative Humidity: (%)	52~58	ATM Pressure: (kPa)	100.1~100.8
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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	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	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 G_T (dBi):	0.36	Antenna Gain G_T (dBd):	-1.79	Path Loss L_C (dB):	0.2
Operation Voltage(V_{DC}):					
Lowest:	3.3	Normal:	3.87	Highest:	4.45

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	24.02	23.87	23.86	22.18	38.45
	RB1#3	24.17	24.08	24.07		
	RB1#5	23.99	23.9	23.9		
	RB3#0	24.08	23.94	23.97		
	RB3#3	24.07	23.99	23.95		
	RB6#0	23.06	23	23		
1.4MHz 16QAM	RB1#0	23.07	22.95	22.86	21.29	38.45
	RB1#3	23.28	23.07	23.11		
	RB1#5	23.08	22.97	22.89		
	RB3#0	22.99	23.08	23.17		
	RB3#3	23	23.07	23.12		
	RB6#0	22.07	21.92	22.01		
3MHz QPSK	RB1#0	24.19	24.05	24.05	22.2	38.45
	RB1#8	24.12	24.06	24.02		
	RB1#14	24.11	24.03	24.04		
	RB6#0	23.12	23.02	23.03		
	RB6#9	23.05	23.06	23.05		
	RB15#0	23.13	23.11	23.07		
3MHz 16QAM	RB1#0	23.63	23.17	23.12	21.64	38.45
	RB1#8	23.53	23.2	23.04		
	RB1#14	23.59	23.22	23.07		
	RB6#0	22.14	22.01	21.94		
	RB6#9	22.12	22.09	21.91		
	RB15#0	22.11	22.06	22.1		
5MHz QPSK	RB1#0	24.05	23.98	23.91	22.2	38.45
	RB1#13	24.19	24.06	24.02		
	RB1#24	24.01	23.97	23.94		
	RB15#0	23.13	23.09	23.12		
	RB15#10	23.12	23.08	23.07		
	RB25#0	23.11	23.08	23.04		
5MHz 16QAM	RB1#0	22.91	23.27	23	21.36	38.45
	RB1#13	23.04	23.35	23.08		
	RB1#24	22.95	23.22	23.04		
	RB15#0	22.15	22.04	22.11		
	RB15#10	22.16	22.07	22.09		
	RB25#0	22.15	22.09	22.07		
10MHz QPSK	RB1#0	24.08	24.03	23.97	22.19	38.45
	RB1#25	24.18	24.14	24.12		
	RB1#49	24.04	24.01	24.03		

	RB25#0	23.09	23.12	23.05		
	RB25#25	23.17	23.13	23.03		
	RB50#0	23.13	23.09	23.09		
10MHz 16QAM	RB1#0	23.54	23.19	23.02	21.78	38.45
	RB1#25	23.77	23.35	23.14		
	RB1#49	23.61	23.21	23.01		
	RB25#0	22.11	22.09	22.17		
	RB25#25	22.18	22.1	22.12		
	RB50#0	22.06	22.1	22.08		

Note: ERP= Conducted Power(dBm) - L_c(dB) + G_T(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	4	4.49	3.94	13
	RB50#0	4.99	4.78	5.07	13
10MHz 16QAM	RB1#0	4.75	5.36	4.84	13
	RB50#0	6.14	5.74	6.03	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	1.102	1.102	1.096	1.308	1.296	1.302
1.4MHz 16QAM	1.09	1.102	1.102	1.284	1.29	1.32
3MHz QPSK	2.683	2.683	2.683	2.88	2.892	2.868
3MHz 16QAM	2.683	2.683	2.683	2.928	2.88	2.892
5MHz QPSK	4.511	4.491	4.511	4.98	4.92	4.92
5MHz 16QAM	4.531	4.531	4.491	4.94	4.96	4.94
10MHz QPSK	8.942	8.942	8.942	9.68	9.84	9.6
10MHz 16QAM	8.942	8.942	8.942	9.64	9.6	9.6

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

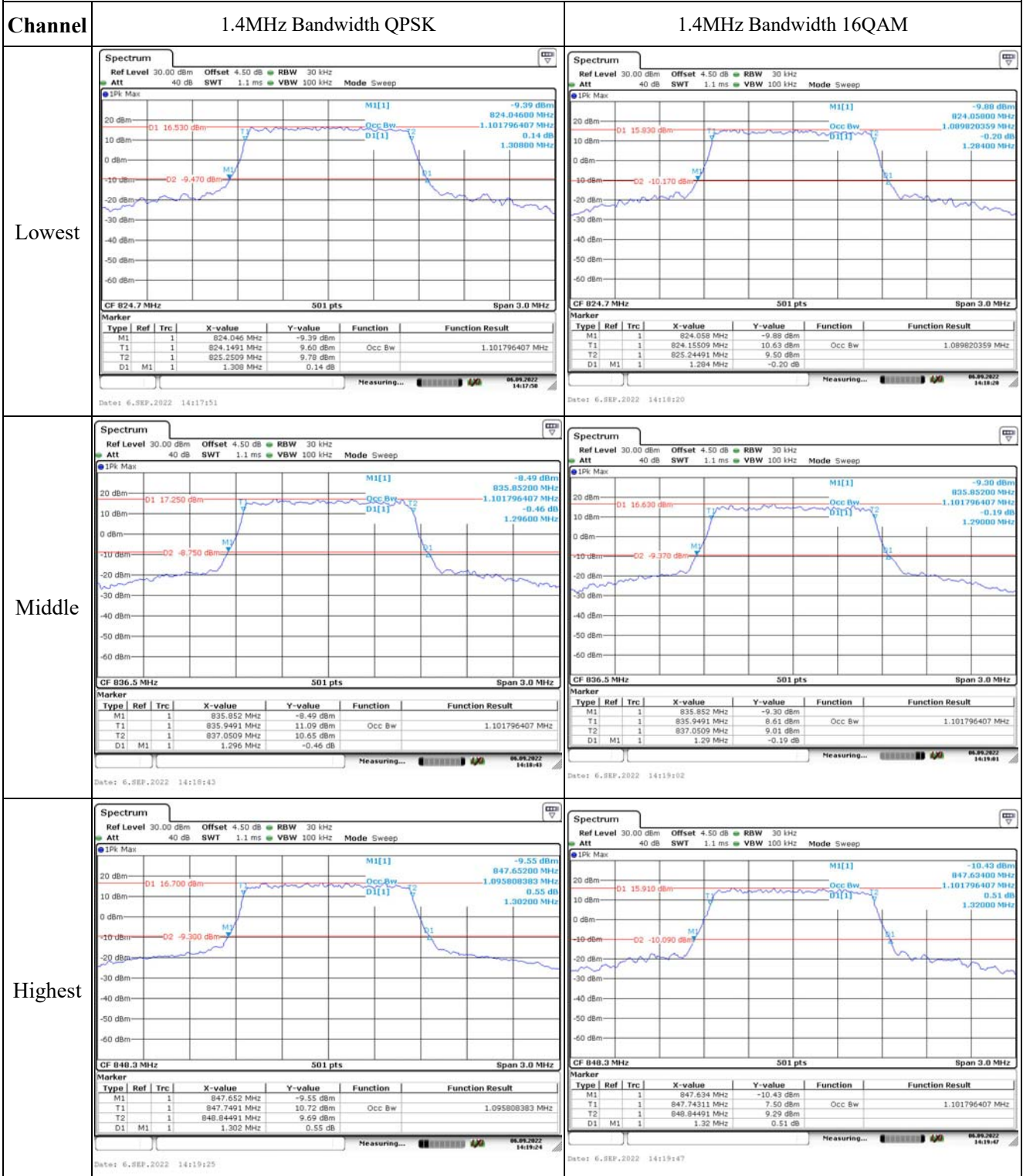
Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.87	-8.18	-0.010	2.5
	-20	3.87	-6.97	-0.008	2.5
	-10	3.87	-5.5	-0.007	2.5
	0	3.87	6.06	0.007	2.5
	10	3.87	9.8	0.012	2.5
	20	3.87	5.03	0.006	2.5
	30	3.87	-6.62	-0.008	2.5
	40	3.87	-8.73	-0.010	2.5
	50	3.87	-7.05	-0.008	2.5
Frequency Stability vs. Voltage	20	3.3	8.99	0.011	2.5
	20	4.45	-7.17	-0.009	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	3.87	-11.13	-0.013	2.5
	-20	3.87	8.1	0.010	2.5
	-10	3.87	-8.59	-0.010	2.5
	0	3.87	9.33	0.011	2.5
	10	3.87	-6.94	-0.008	2.5
	20	3.87	7.54	0.009	2.5
	30	3.87	6.43	0.008	2.5
	40	3.87	-6.17	-0.007	2.5
	50	3.87	-6.44	-0.008	2.5
Frequency Stability vs. Voltage	20	3.3	6.34	0.008	2.5
	20	4.45	-6.89	-0.008	2.5
				Result:	Pass

Test Plots:

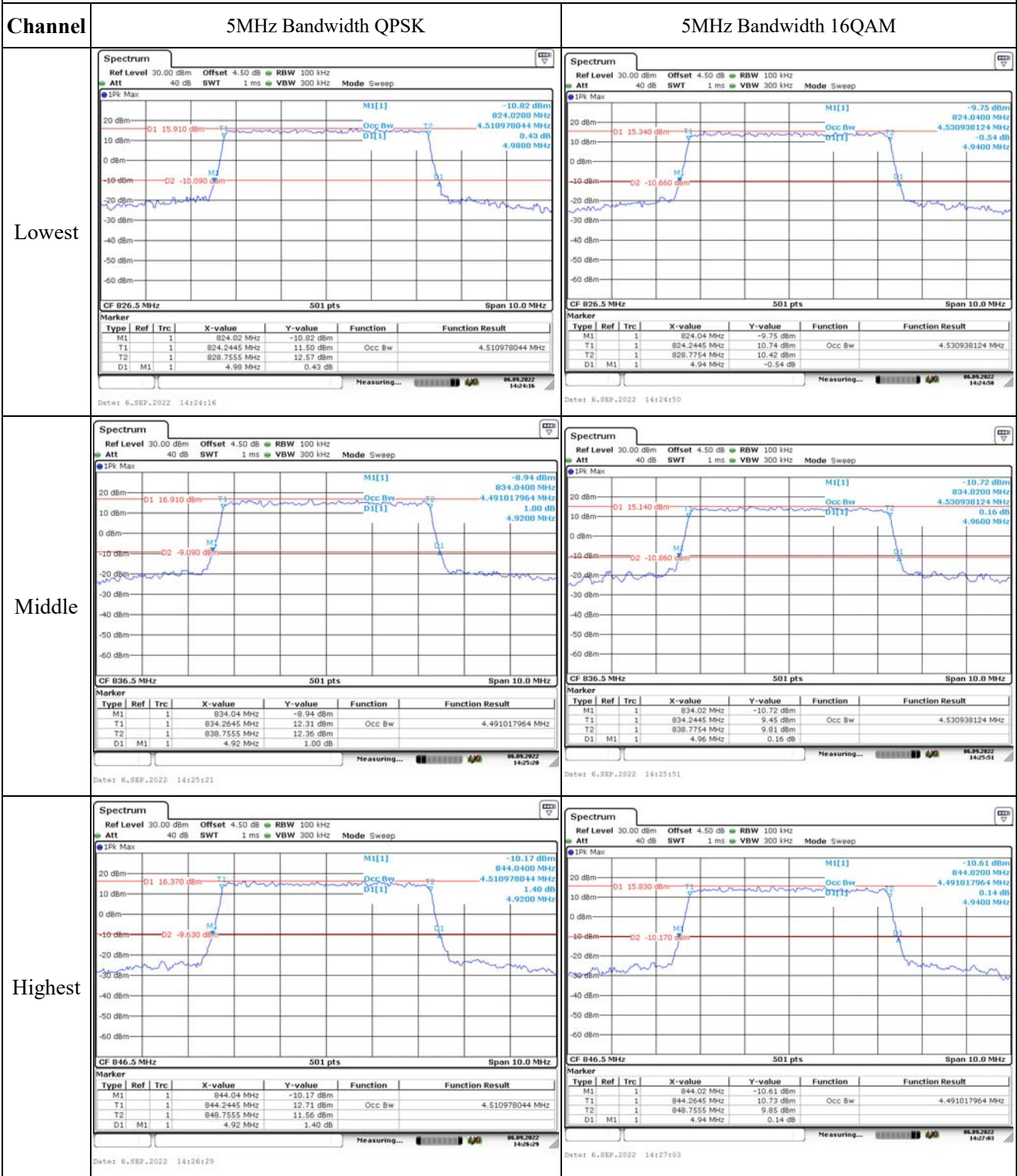
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Occupied Bandwidth



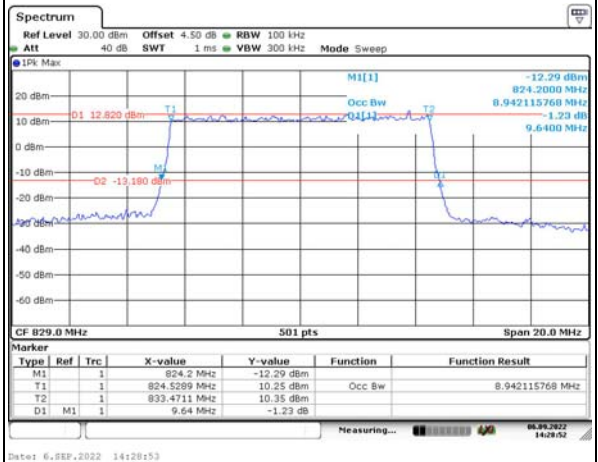
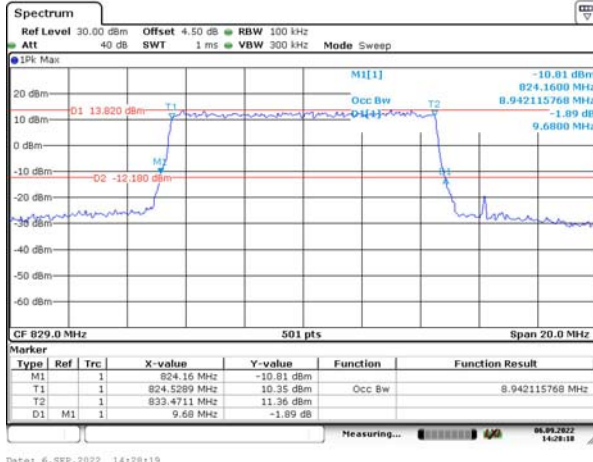
Occupied Bandwidth

Channel

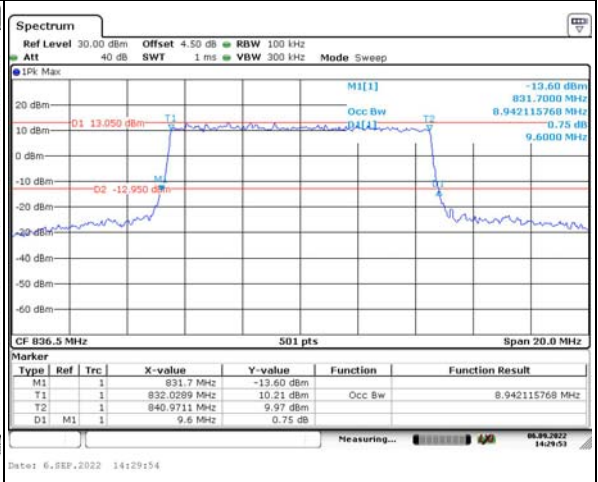
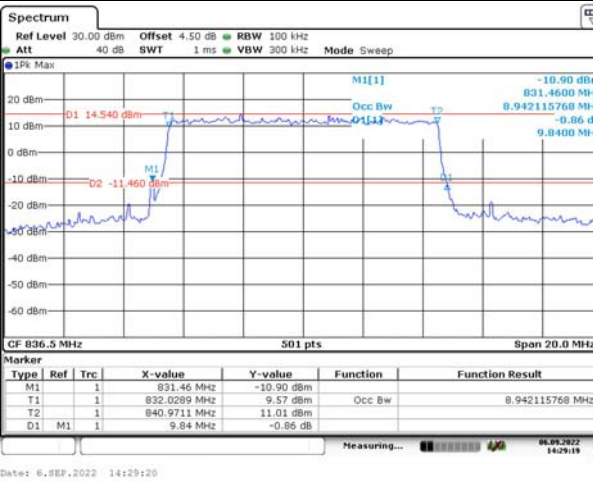
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

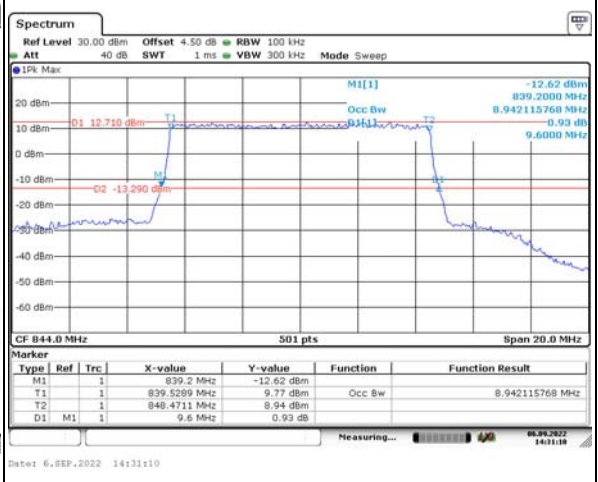
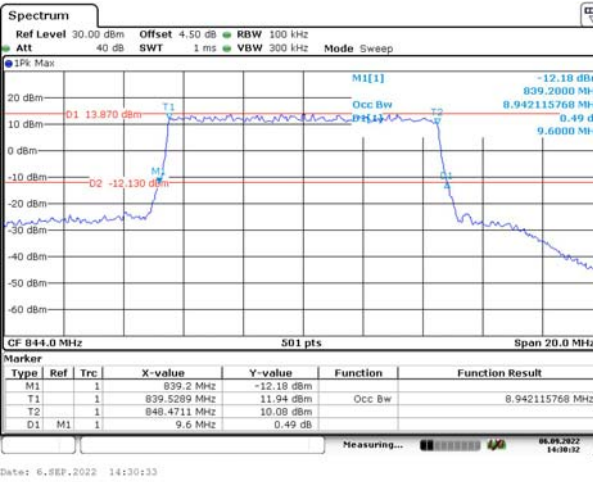
Lowest



Middle



Highest

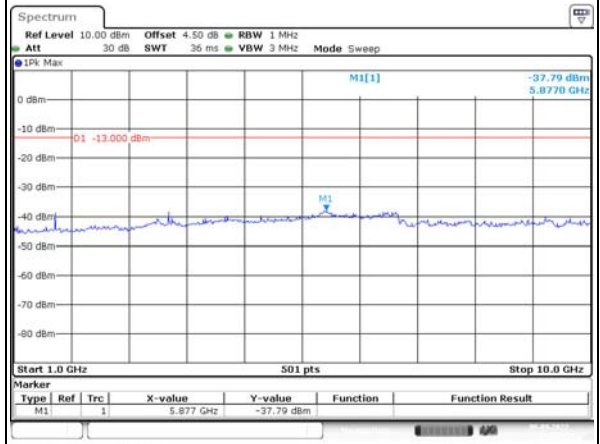
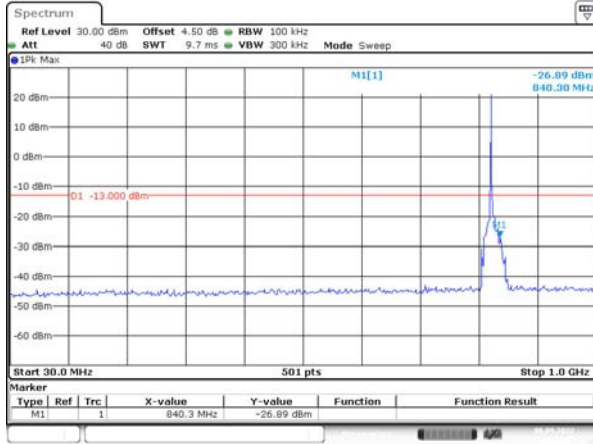


Spurious Emissions at Antenna Terminal

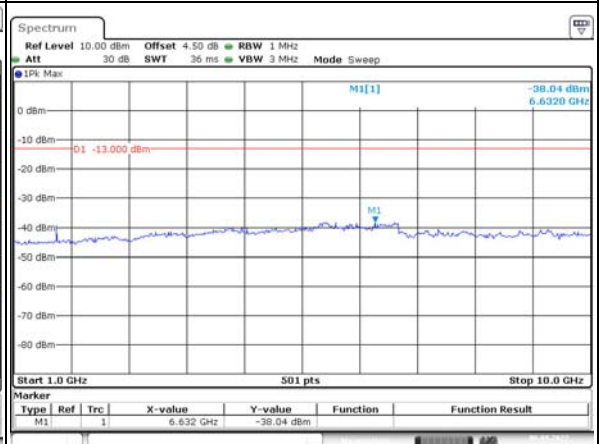
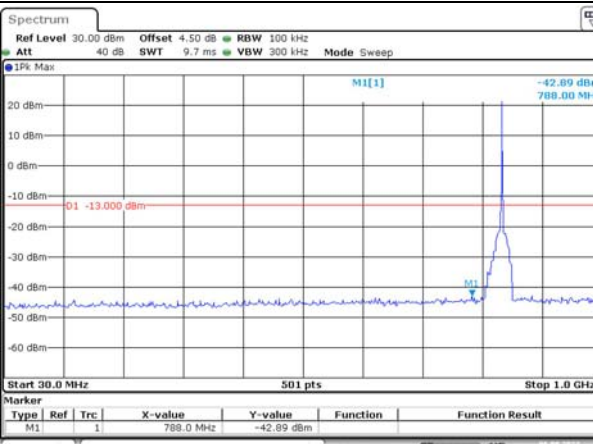
Channel

1.4MHz Bandwidth QPSK

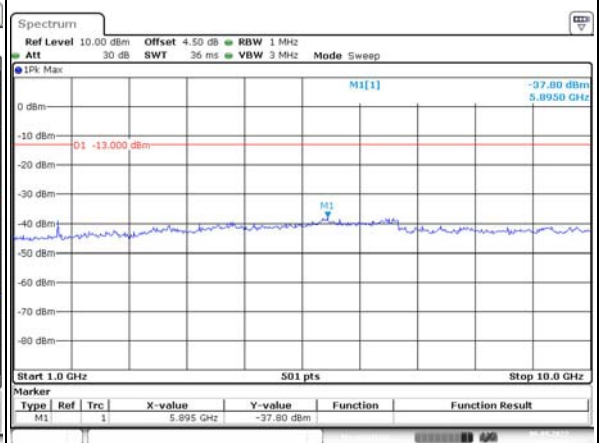
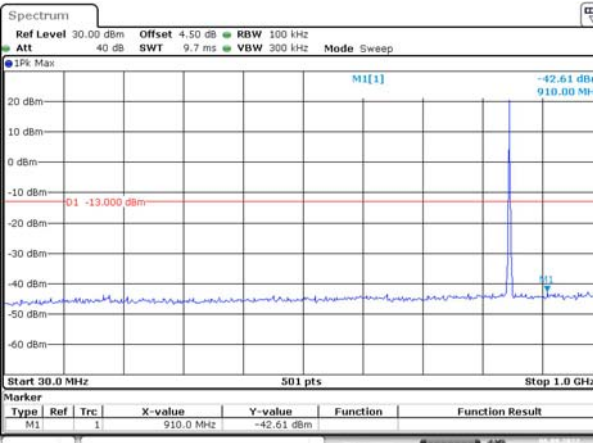
Lowest



Middle



Highest

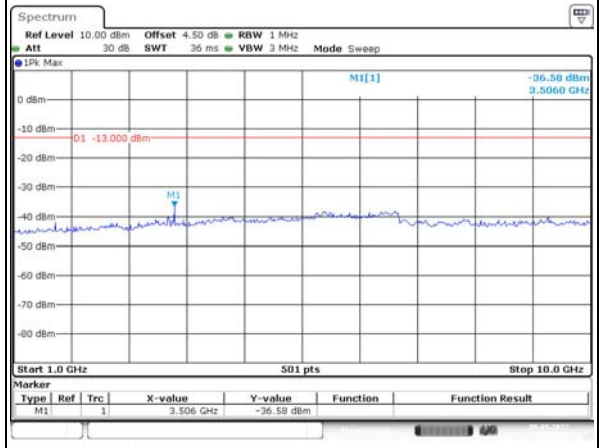
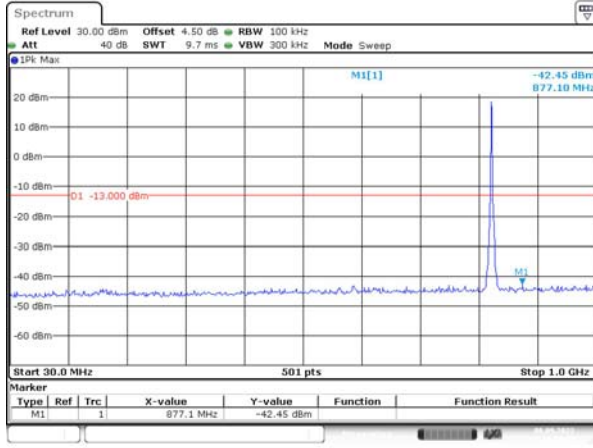


Spurious Emissions at Antenna Terminal

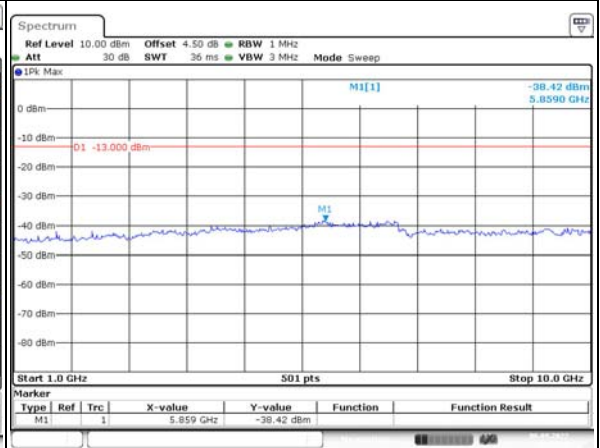
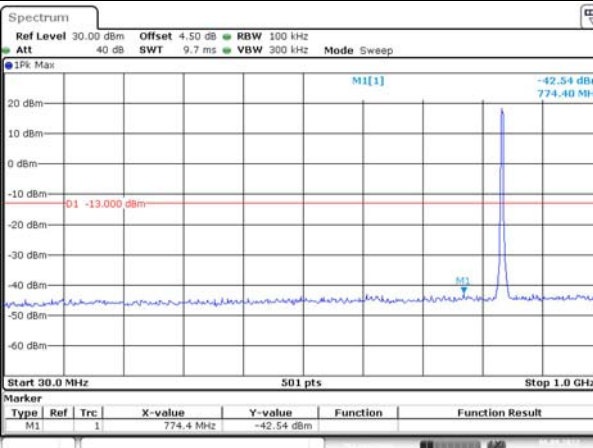
Channel

3MHz Bandwidth QPSK

Lowest



Middle



Highest

