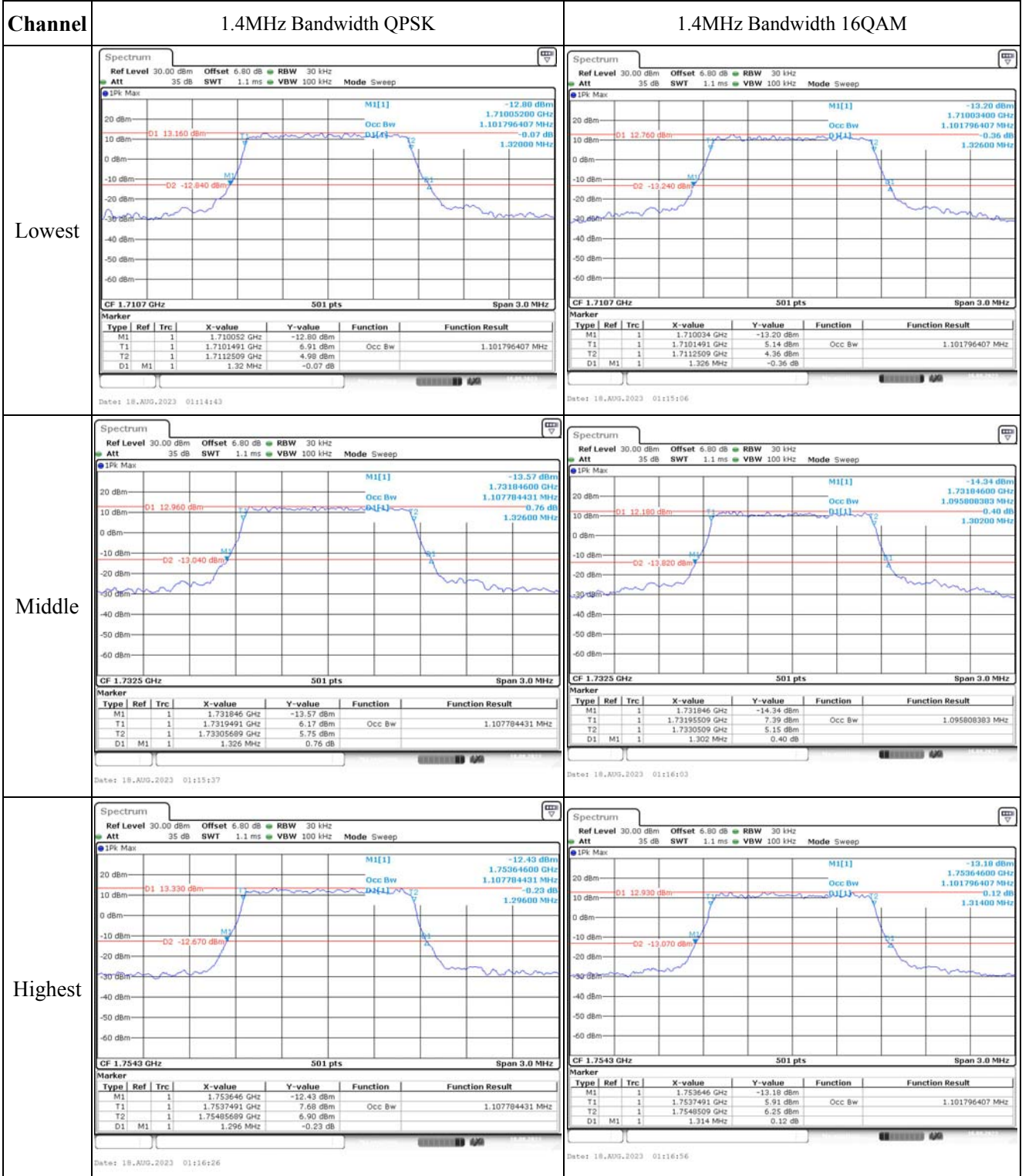


<b>FCC §2.1055, §27.54: Frequency Stability</b>						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	24	1711.010	1710.00	1754.062	1755
	-20	24	1711.052	1710.00	1754.013	1755
	-10	24	1711.045	1710.00	1754.090	1755
	0	24	1711.095	1710.00	1754.039	1755
	10	24	1711.062	1710.00	1754.072	1755
	20	24	1711.058	1710.00	1754.022	1755
	30	24	1711.096	1710.00	1754.088	1755
	40	24	1711.081	1710.00	1754.038	1755
	50	24	1711.055	1710.00	1754.093	1755
Frequency Stability vs. Voltage	20	12	1711.003	1710.00	1754.077	1755
	20	48	1711.070	1710.00	1754.083	1755
					<b>Result:</b>	<b>Pass</b>

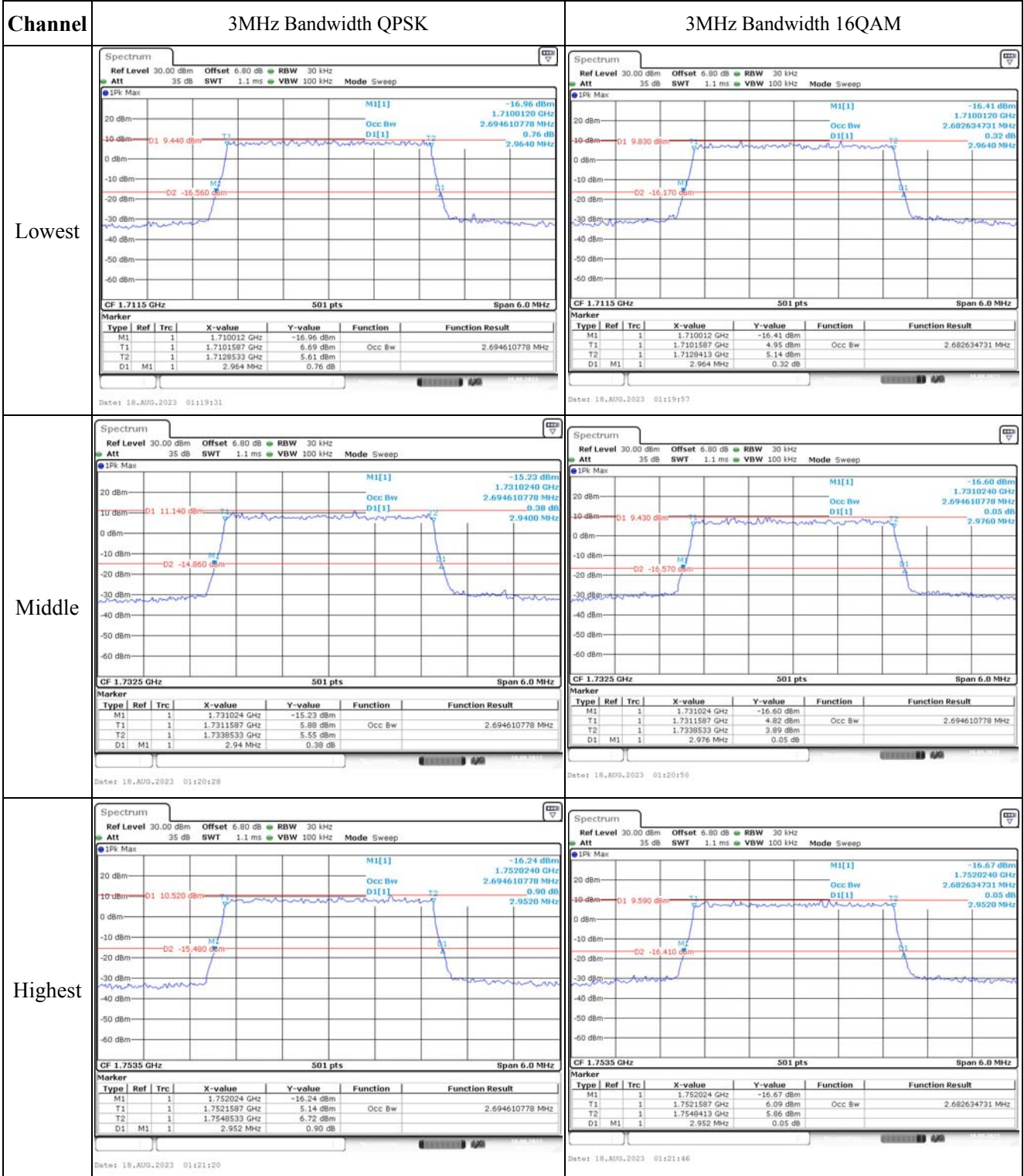
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	24	1711.077	1710.00	1753.933	1755
	-20	24	1711.084	1710.00	1753.916	1755
	-10	24	1711.086	1710.00	1753.946	1755
	0	24	1711.014	1710.00	1753.903	1755
	10	24	1711.005	1710.00	1753.901	1755
	20	24	1711.058	1710.00	1753.942	1755
	30	24	1711.080	1710.00	1753.919	1755
	40	24	1711.099	1710.00	1753.999	1755
	50	24	1711.060	1710.00	1753.966	1755
Frequency Stability vs. Voltage	20	12	1711.017	1710.00	1753.981	1755
	20	48	1711.052	1710.00	1753.955	1755
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



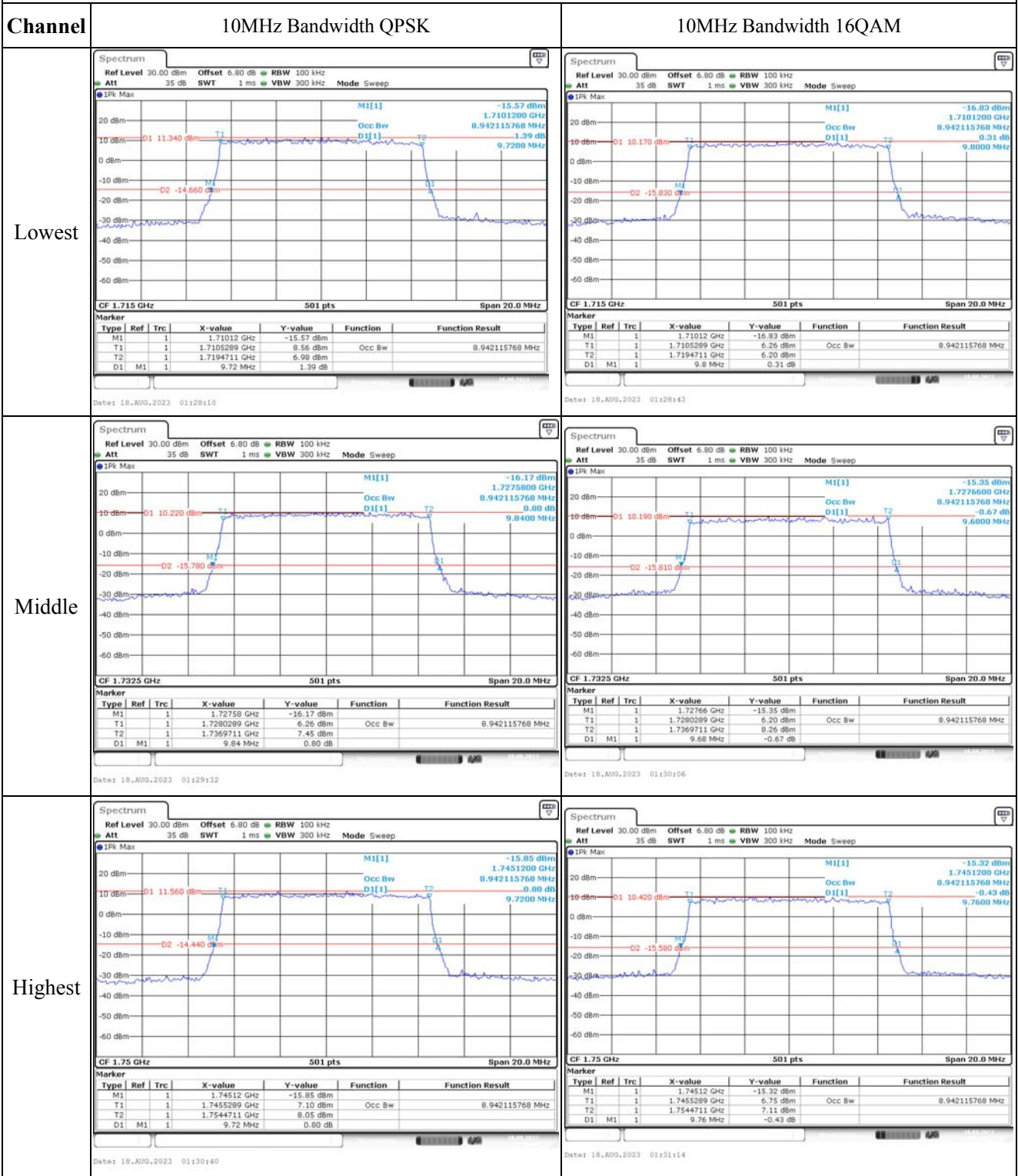
### Occupied Bandwidth



### 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>1.71 GHz</td> <td>-12.19 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7102445 GHz</td> <td>7.76 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.7147555 GHz</td> <td>8.63 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>5.04 MHz</td> <td>-0.83 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.71 GHz	-12.19 dBm			T1	1		1.7102445 GHz	7.76 dBm	Occ Bw	4.510978044 MHz	T2	1		1.7147555 GHz	8.63 dBm			D1	M1	1	5.04 MHz	-0.83 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>1.70998 GHz</td> <td>-13.90 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.7102445 GHz</td> <td>7.32 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>6.54 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>5.04 MHz</td> <td>0.74 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.70998 GHz	-13.90 dBm			T1	1		1.7102445 GHz	7.32 dBm	Occ Bw	4.530938124 MHz	T2	1		1.7147554 GHz	6.54 dBm			D1	M1	1	5.04 MHz	0.74 dB		
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Occupied Bandwidth



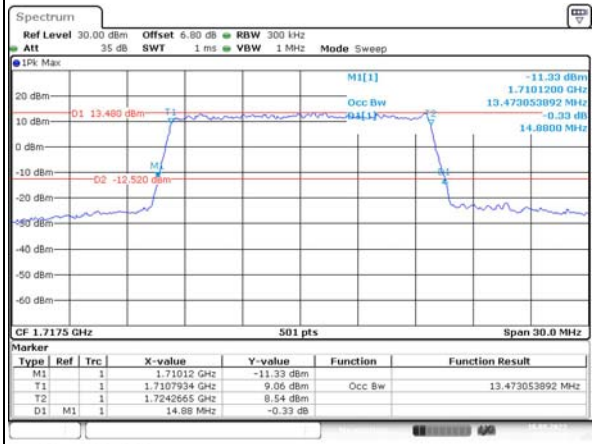
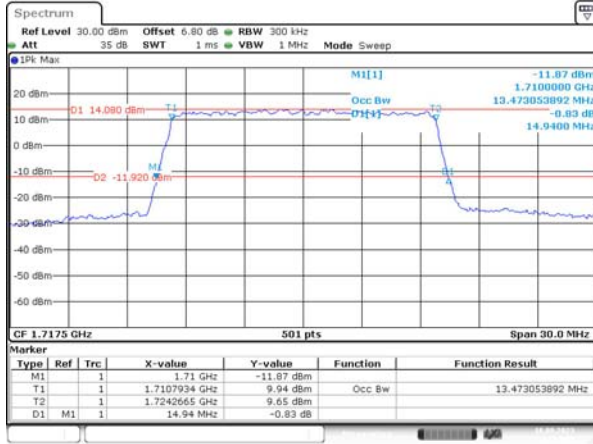
### Occupied Bandwidth

Channel

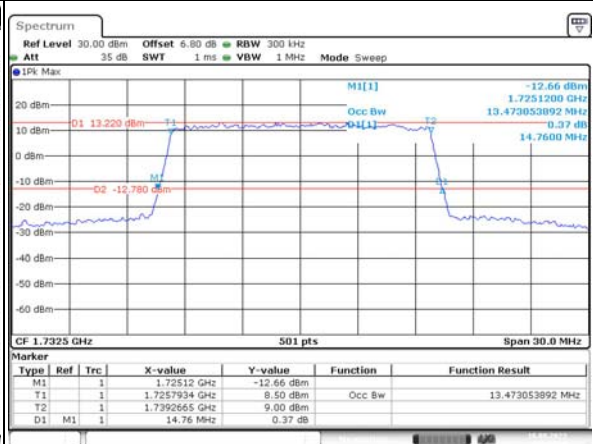
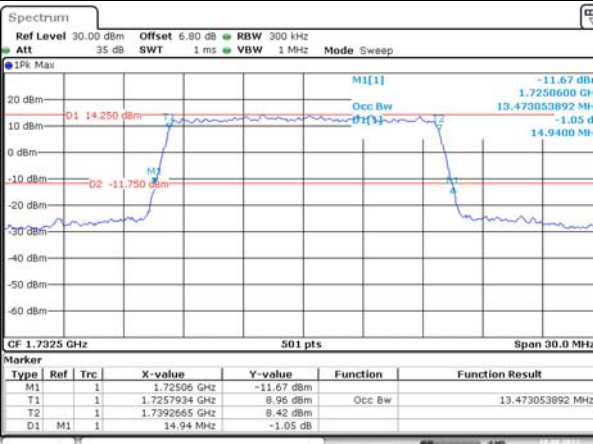
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

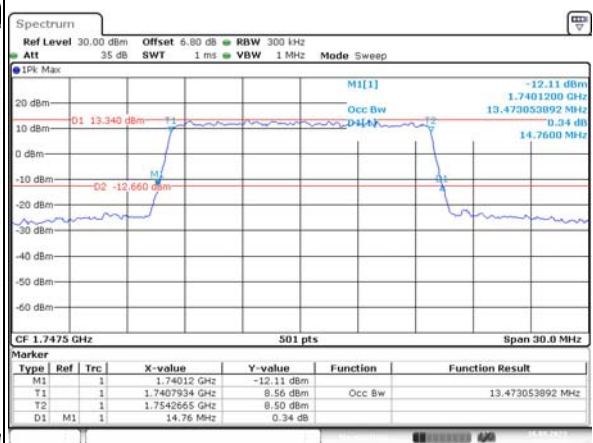
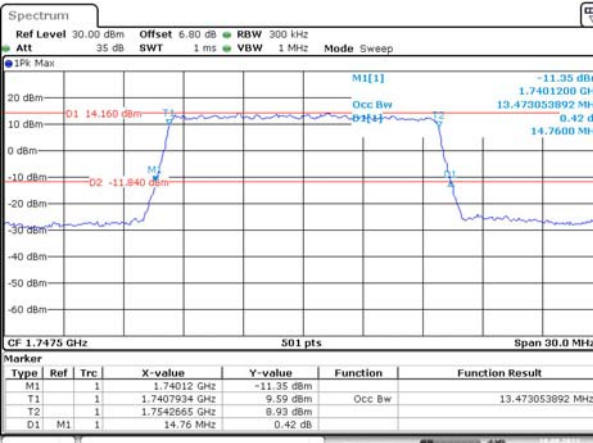
Lowest



Middle



Highest



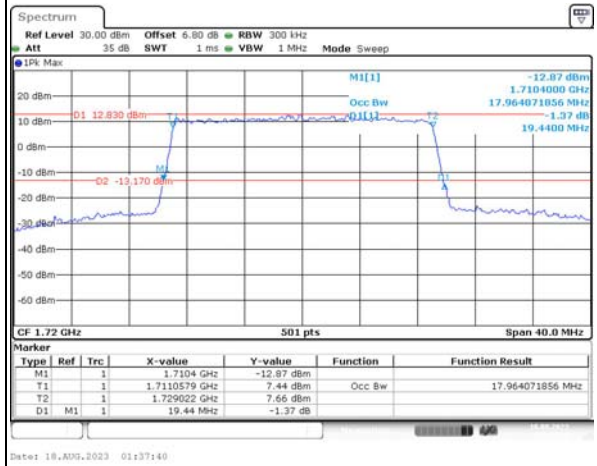
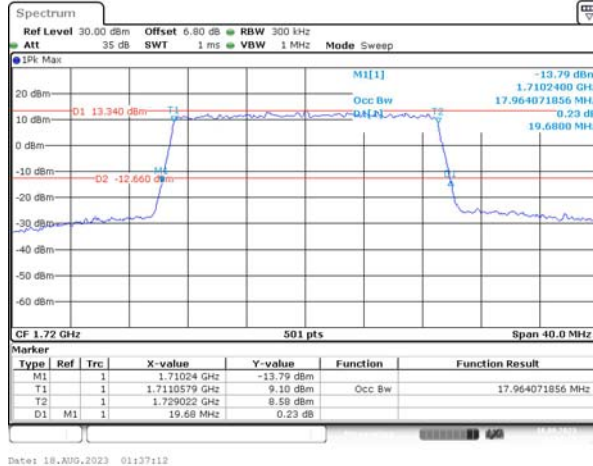
### Occupied Bandwidth

Channel

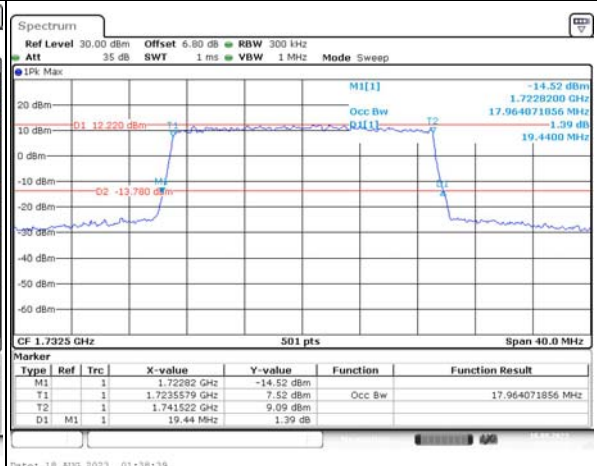
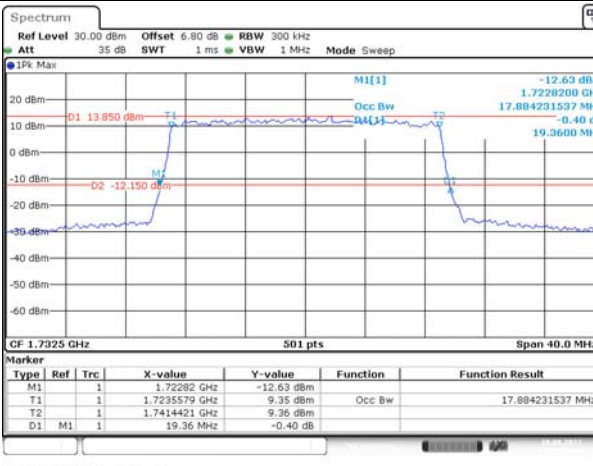
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

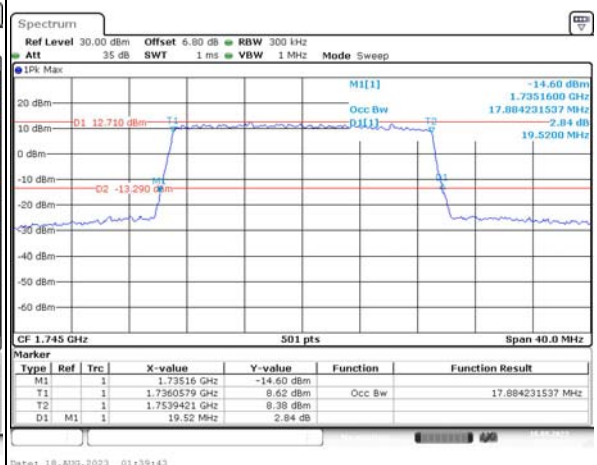
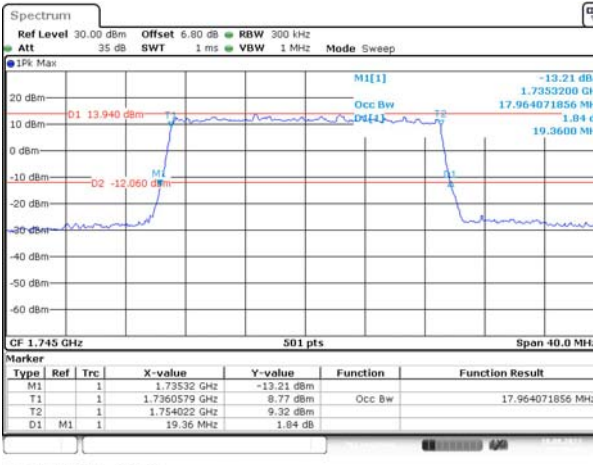
Lowest



Middle



Highest

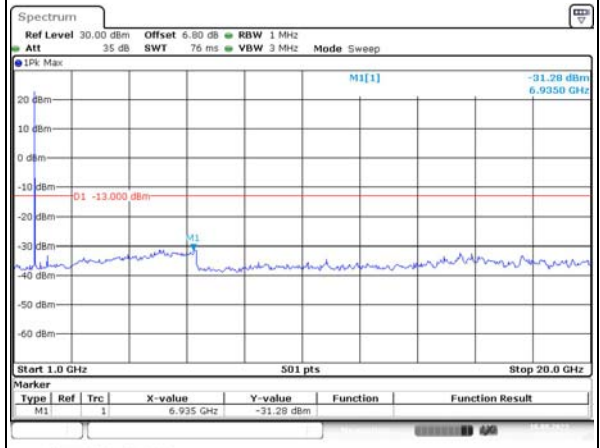
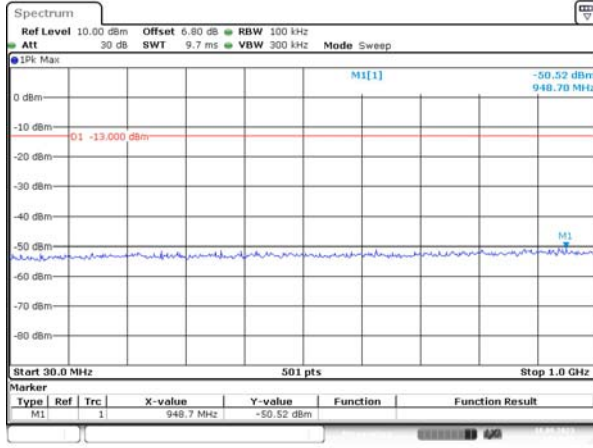


### Spurious Emissions at Antenna Terminal

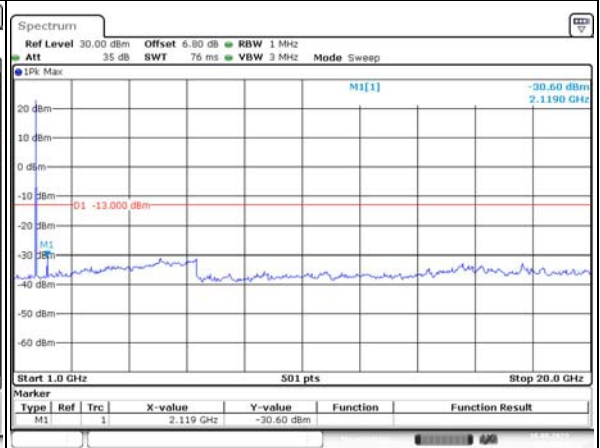
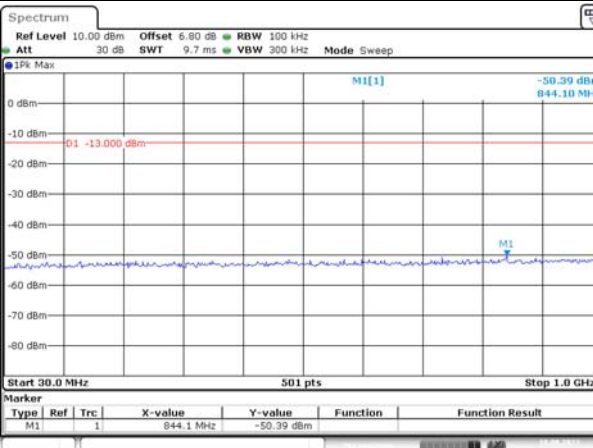
Channel

1.4MHz Bandwidth QPSK

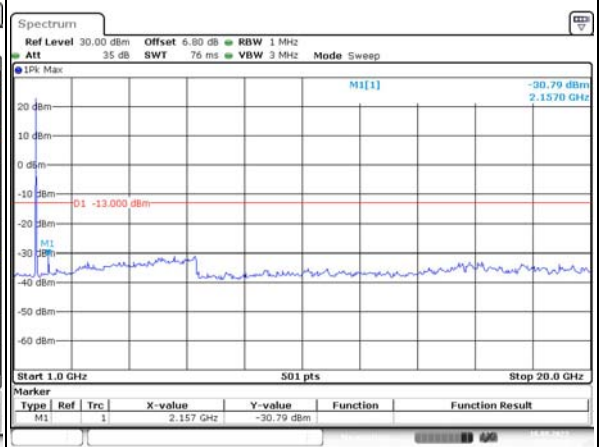
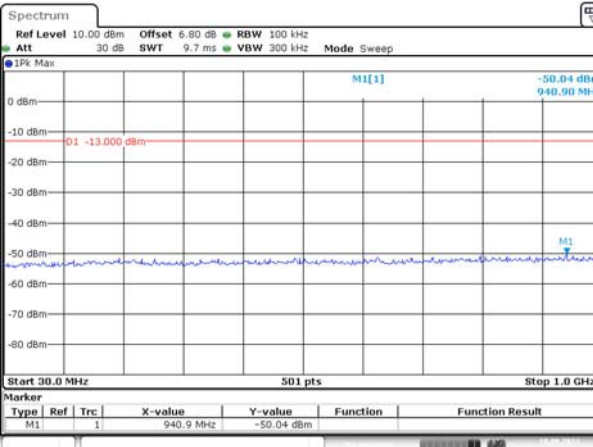
Lowest



Middle



Highest



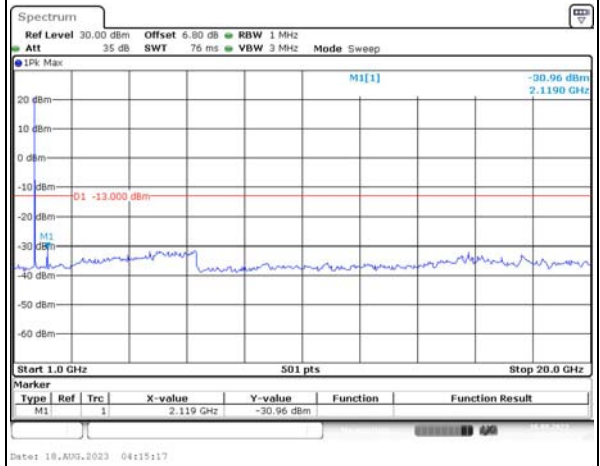
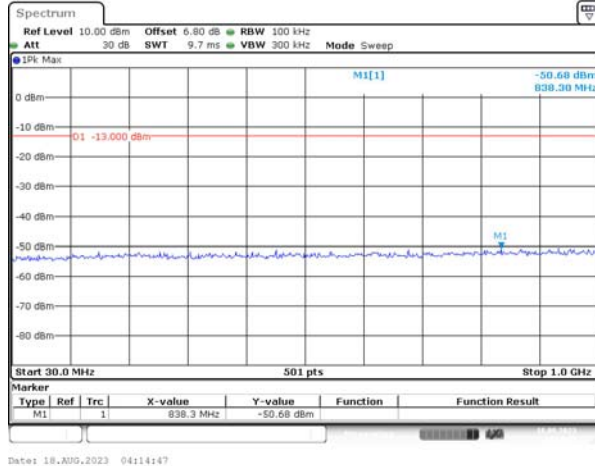


### Spurious Emissions at Antenna Terminal

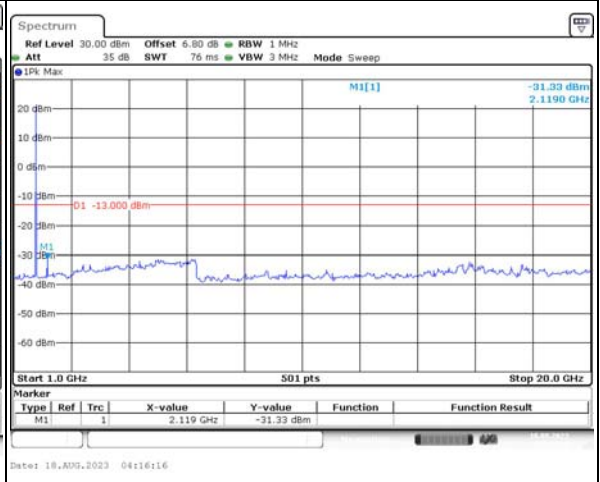
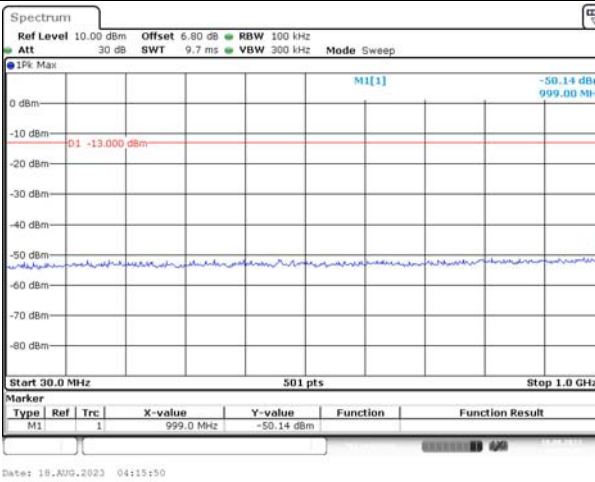
Channel

3MHz Bandwidth QPSK

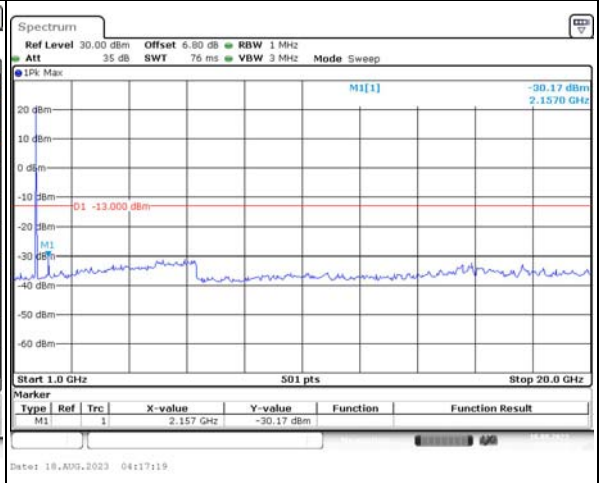
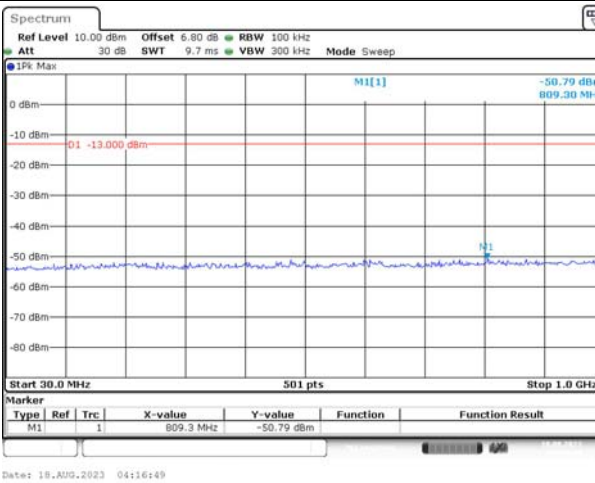
Lowest



Middle



Highest

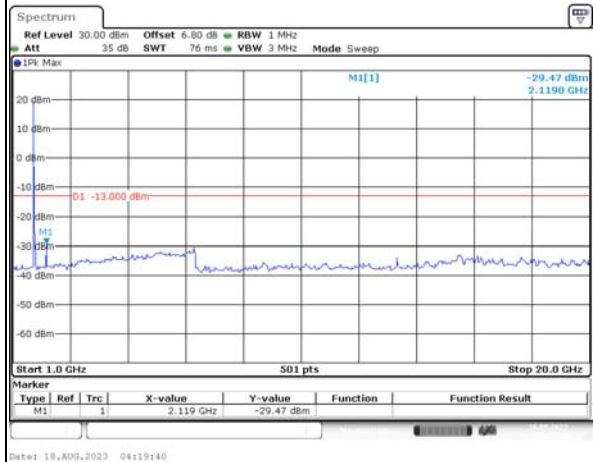
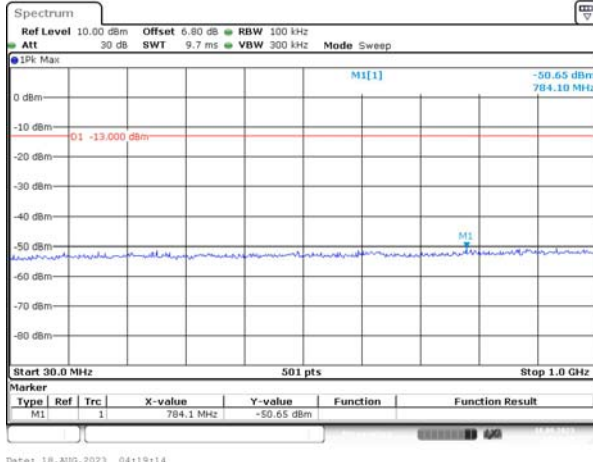


Spurious Emissions at Antenna Terminal

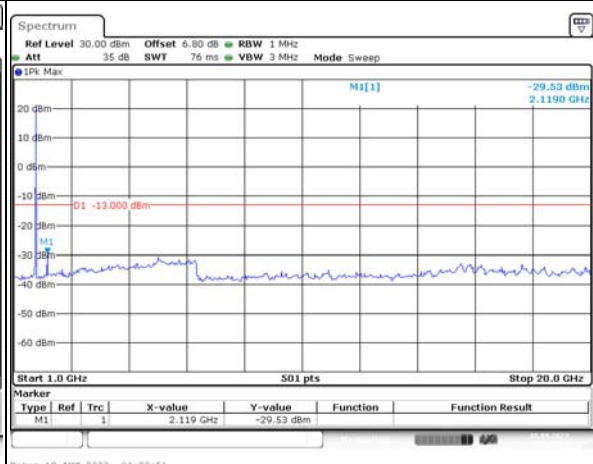
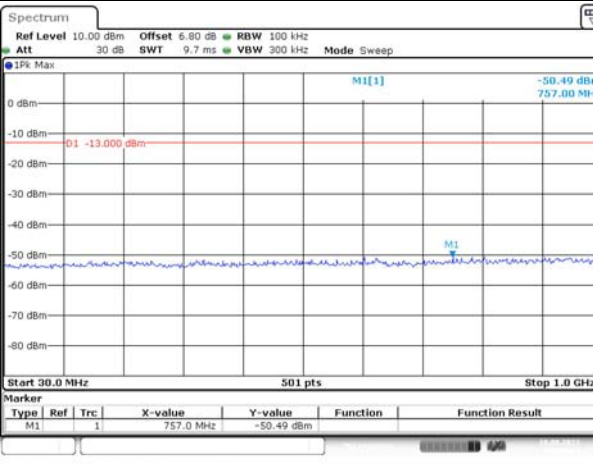
Channel

5MHz Bandwidth QPSK

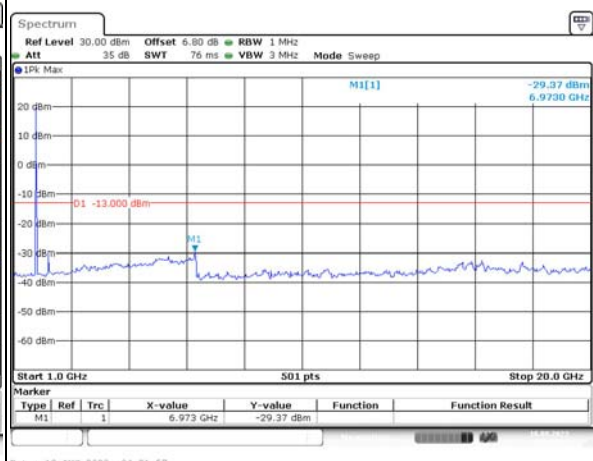
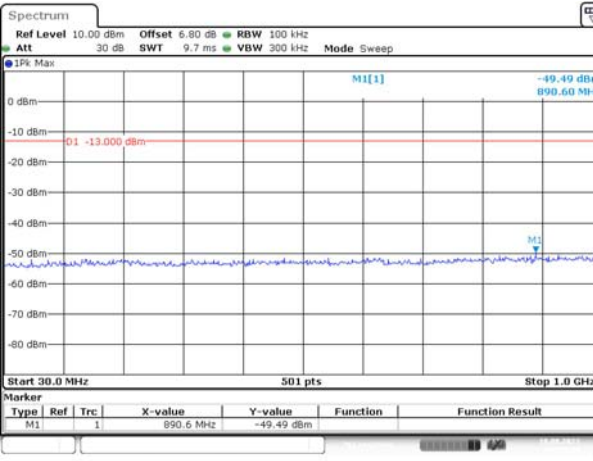
Lowest



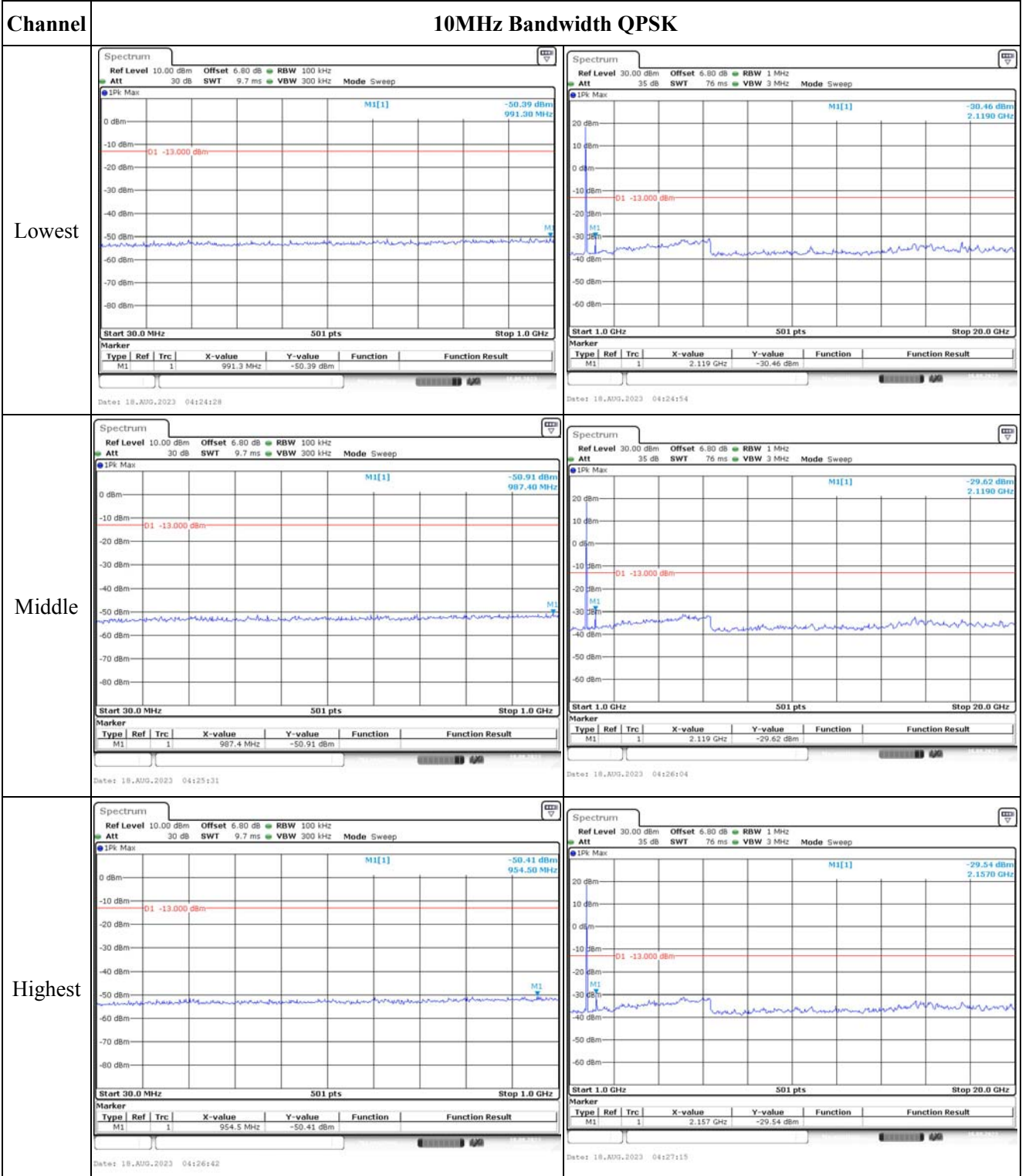
Middle



Highest



### Spurious Emissions at Antenna Terminal

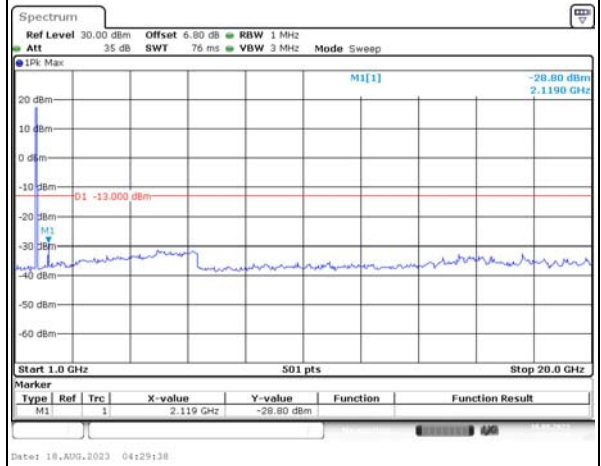
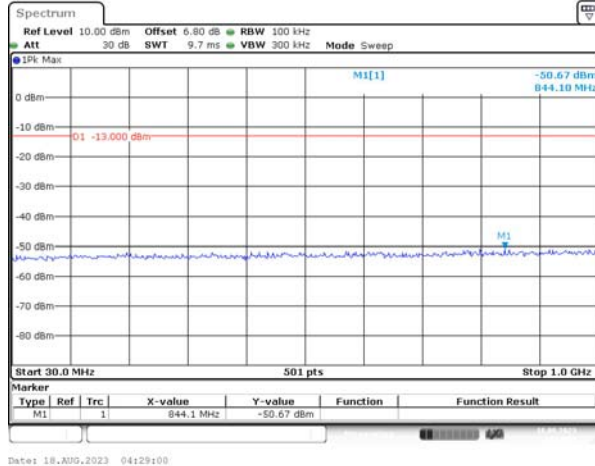


### Spurious Emissions at Antenna Terminal

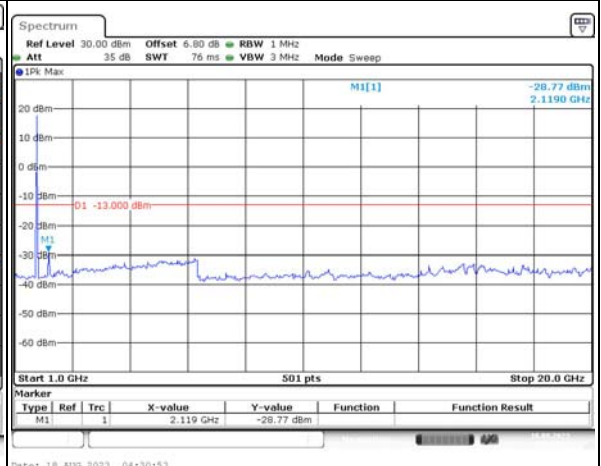
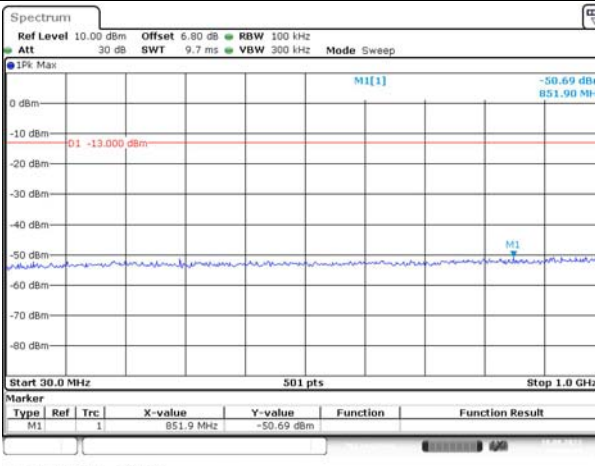
Channel

15MHz Bandwidth QPSK

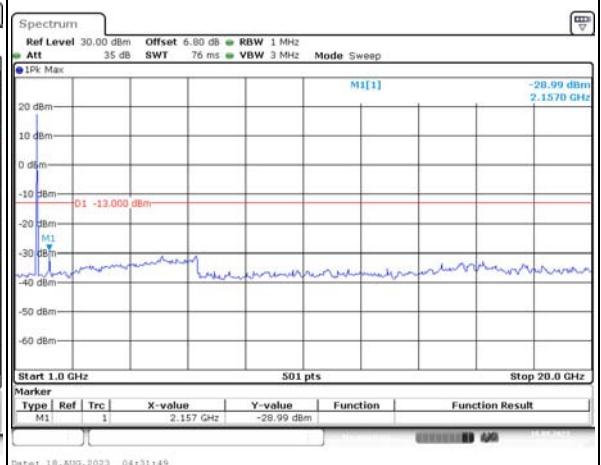
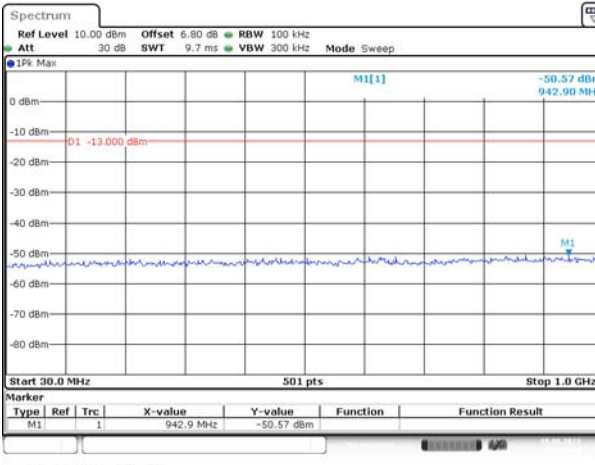
Lowest



Middle



Highest

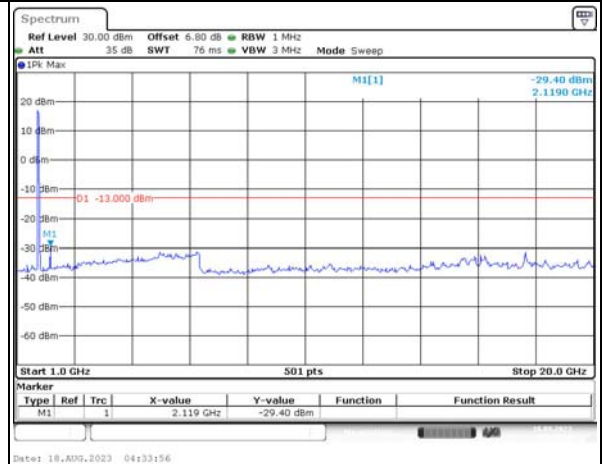
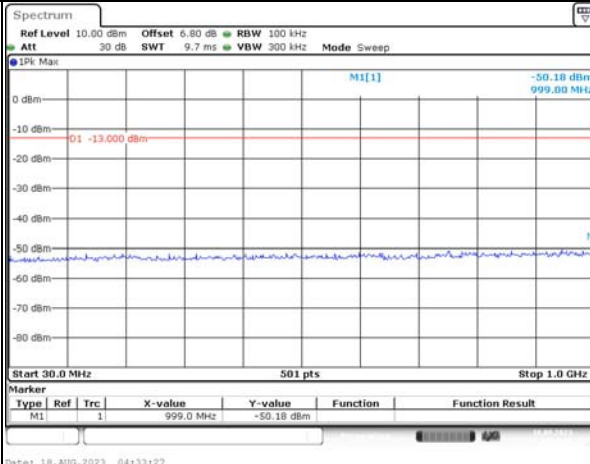


Spurious Emissions at Antenna Terminal

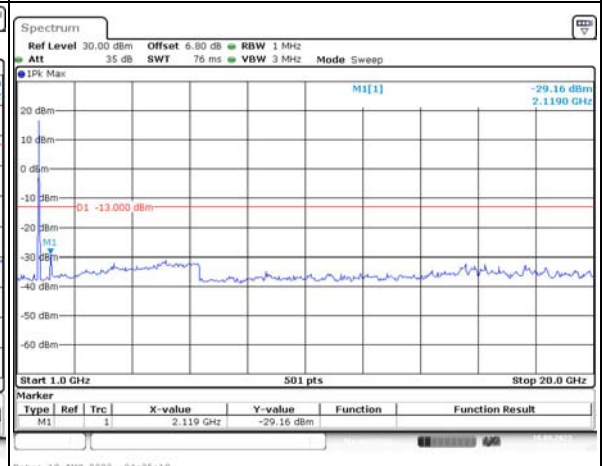
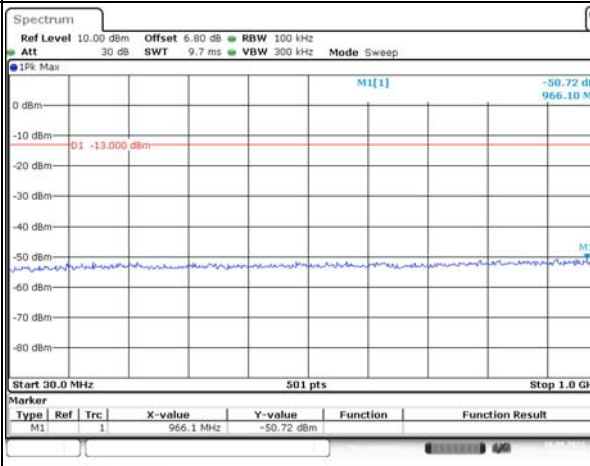
Channel

20MHz Bandwidth QPSK

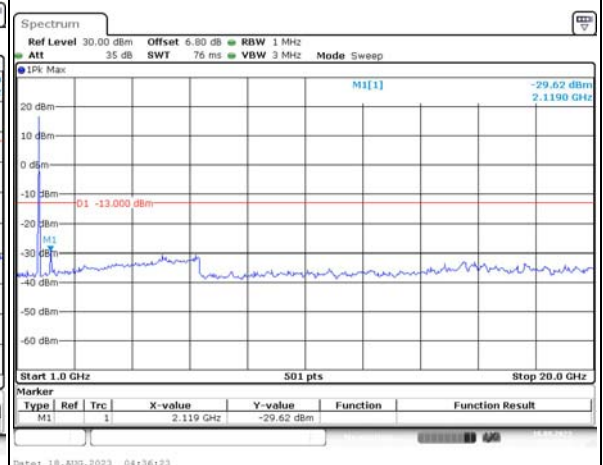
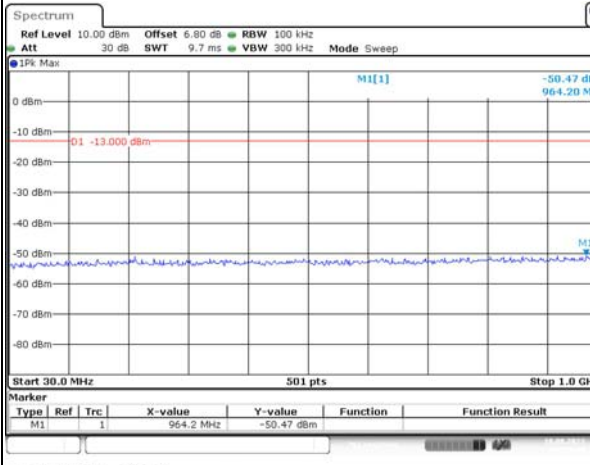
Lowest



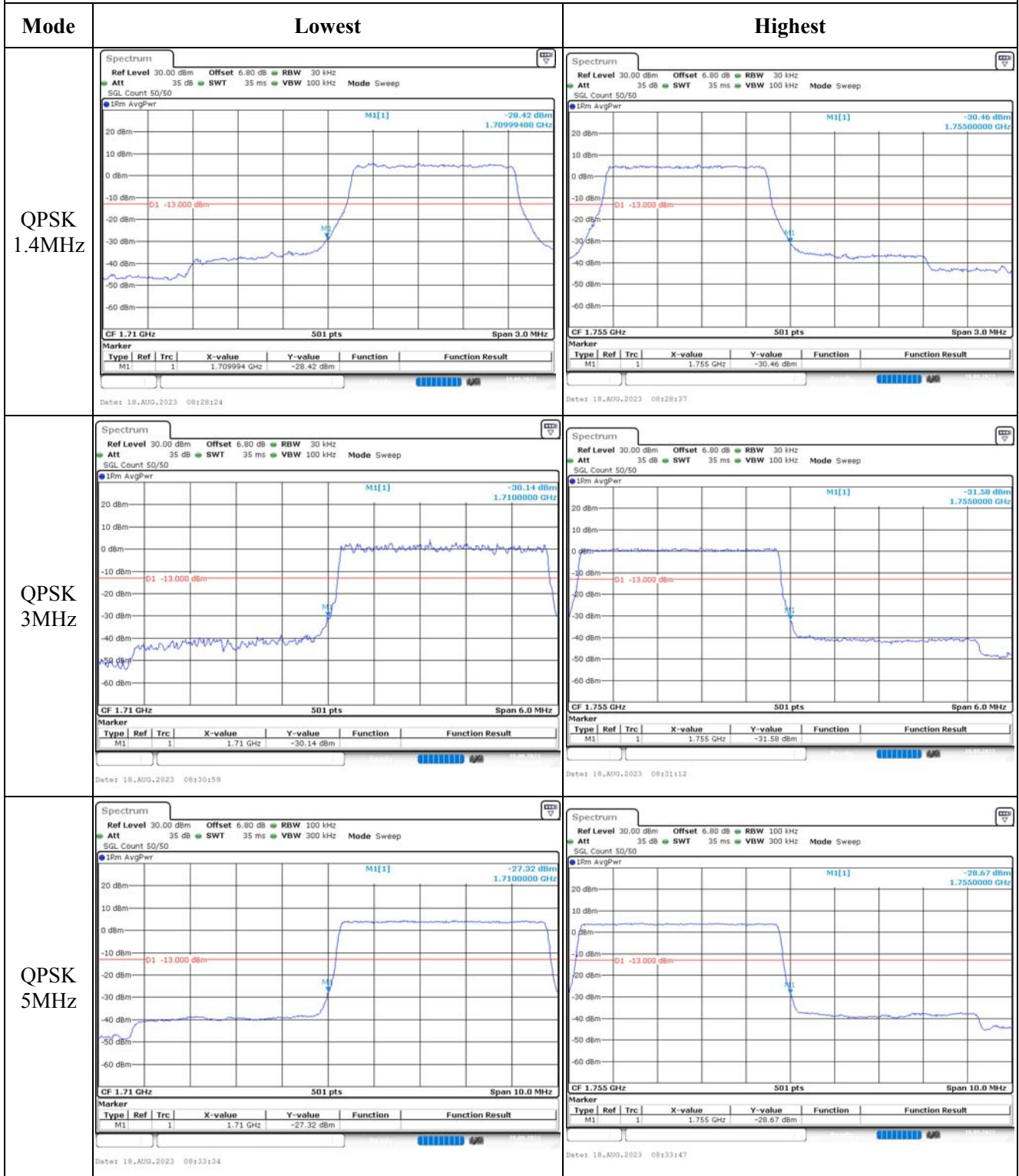
Middle



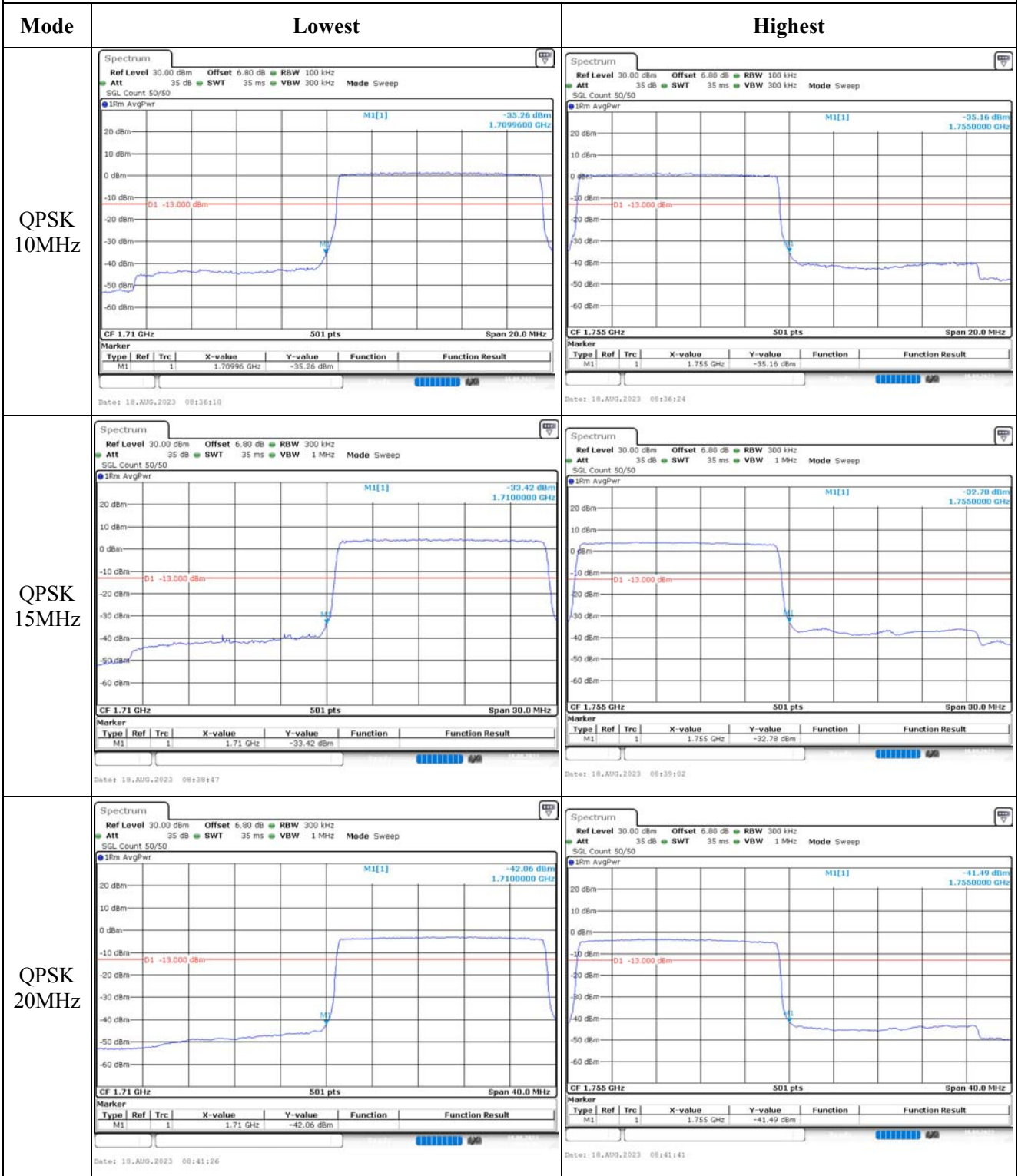
Highest



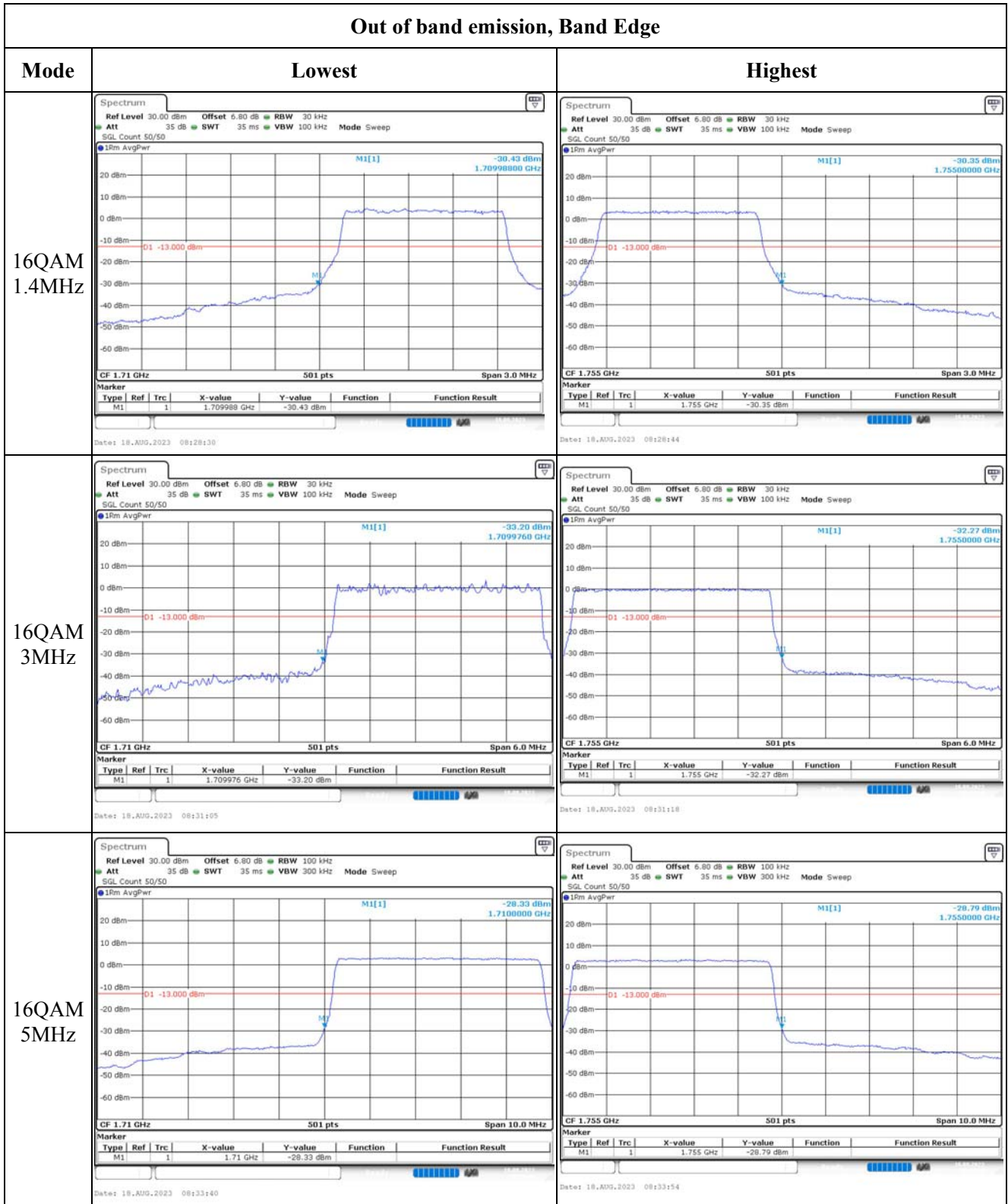
Out of band emission, Band Edge



Out of band emission, Band Edge

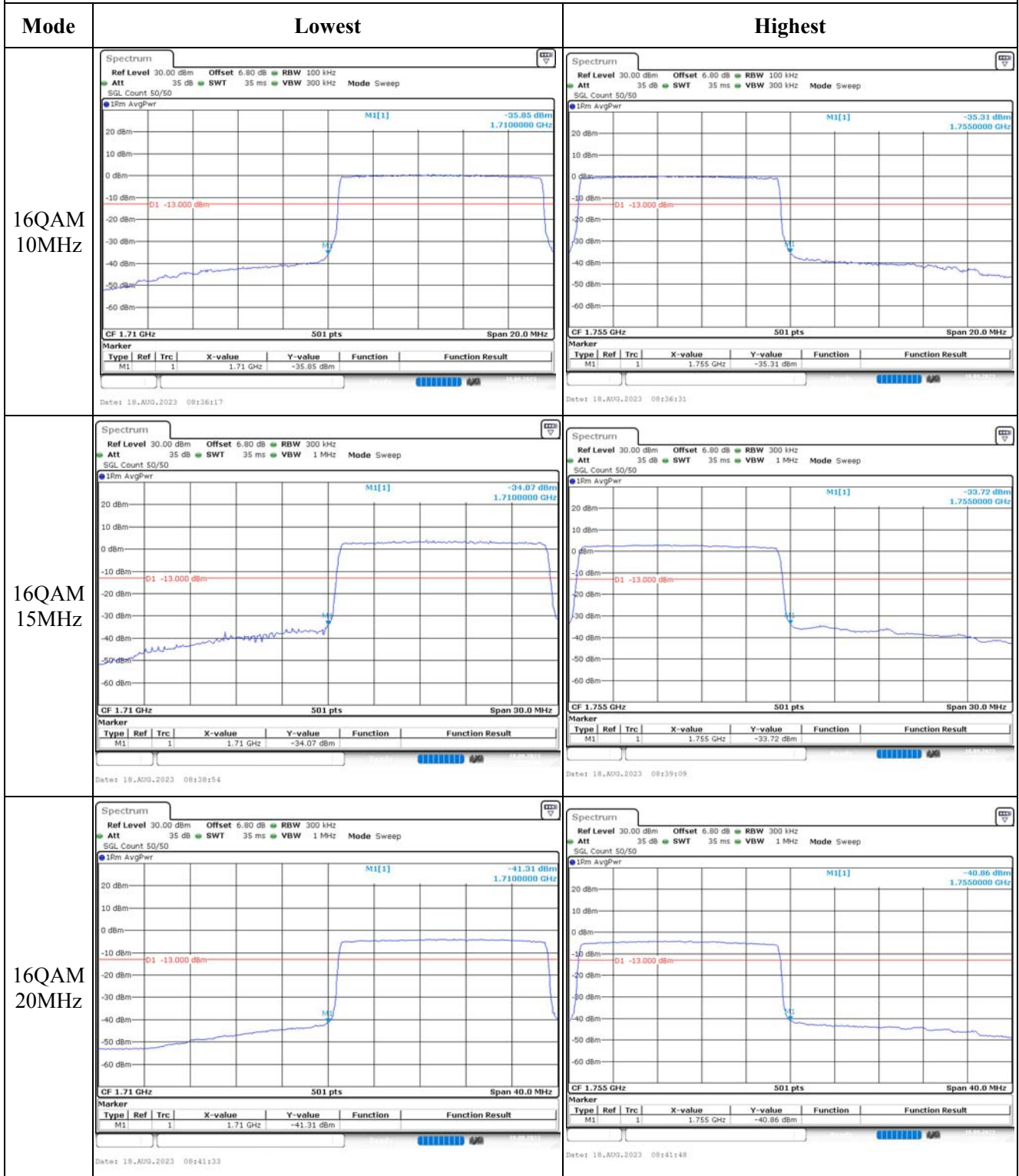


Out of band emission, Band Edge





Out of band emission, Band Edge



**4.6 Antenna Port Test Data and Results for LTE Band 5**

Serial Number:	2941-1	Test Date:	2023/8/16~2023/8/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~27.2	Relative Humidity: (%)	43~58	ATM Pressure: (kPa)	99.8~101.3
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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	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
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).

**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	23.73	23.31	23.49	22.99	38.45
	RB1#3	23.78	23.51	23.72		
	RB1#5	23.63	23.37	23.76		
	RB3#0	23.59	23.59	23.77		
	RB3#3	23.52	23.57	23.75		
	RB6#0	22.62	22.51	22.78		
1.4MHz 16QAM	RB1#0	22.93	22.82	22.71	22.22	38.45
	RB1#3	22.93	23.01	22.5		
	RB1#5	22.7	22.92	22.44		
	RB3#0	22.62	22.64	22.77		
	RB3#3	22.54	22.45	22.72		
	RB6#0	21.69	21.25	21.72		
3MHz QPSK	RB1#0	23.28	23.39	23.29	22.87	38.45
	RB1#8	23.27	23.33	23.53		
	RB1#14	23.25	23.47	23.66		
	RB6#0	22.51	22.41	22.46		
	RB6#9	22.48	22.44	22.55		
	RB15#0	22.58	22.36	22.54		
3MHz 16QAM	RB1#0	22.69	22.89	22.15	22.16	38.45
	RB1#8	22.51	22.95	22.11		
	RB1#14	22.47	22.7	22.06		
	RB6#0	21.57	21.61	21.4		
	RB6#9	21.36	21.6	21.48		
	RB15#0	21.56	21.36	21.54		
5MHz QPSK	RB1#0	23.2	23.1	23.18	22.88	38.45
	RB1#13	23.25	23.38	23.4		
	RB1#24	23.17	23.46	23.67		
	RB15#0	22.53	22.44	22.34		
	RB15#10	22.34	22.41	22.53		
	RB25#0	22.42	22.36	22.45		
5MHz 16QAM	RB1#0	21.98	22.61	22.22	21.87	38.45
	RB1#13	21.71	22.66	22.19		
	RB1#24	21.66	22.66	22.25		
	RB15#0	21.3	21.23	21.3		
	RB15#10	21.26	21.31	21.7		
	RB25#0	21.38	21.38	21.42		
10MHz QPSK	RB1#0	23.28	22.96	23.46	22.86	38.45
	RB1#25	23.21	23.41	23.28		
	RB1#49	23.14	23.37	23.65		

	RB25#0	22.48	22.33	22.58		
	RB25#25	22.24	22.57	22.38		
	RB50#0	22.31	22.49	22.53		
10MHz 16QAM	RB1#0	22.37	22.5	23.05	22.4	38.45
	RB1#25	22.15	23.19	22.83		
	RB1#49	22.31	22.69	23.12		
	RB25#0	21.52	21.38	21.64		
	RB25#25	21.3	21.53	21.32		
	RB50#0	21.31	21.42	21.39		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

**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	3.59	4.7	3.62	13
	RB50#0	4.81	4.75	4.61	13
10MHz 16QAM	RB1#0	4.49	5.57	4.38	13
	RB50#0	5.8	5.88	5.51	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	1.108	1.108	1.102	1.32	1.29	1.314
1.4MHz 16QAM	1.096	1.102	1.108	1.296	1.314	1.32
3MHz QPSK	2.695	2.683	2.695	2.94	2.94	2.952
3MHz 16QAM	2.683	2.683	2.695	2.964	2.94	2.976
5MHz QPSK	4.511	4.531	4.511	5.02	5.04	5.04
5MHz 16QAM	4.511	4.511	4.531	5.02	5	5.06
10MHz QPSK	8.942	8.942	8.942	9.68	9.8	9.76
10MHz 16QAM	8.942	8.942	8.942	9.68	9.64	9.72

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

**FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>
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**FCC §2.1051, §22.917(a):Out of band emission, Band Edge**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>
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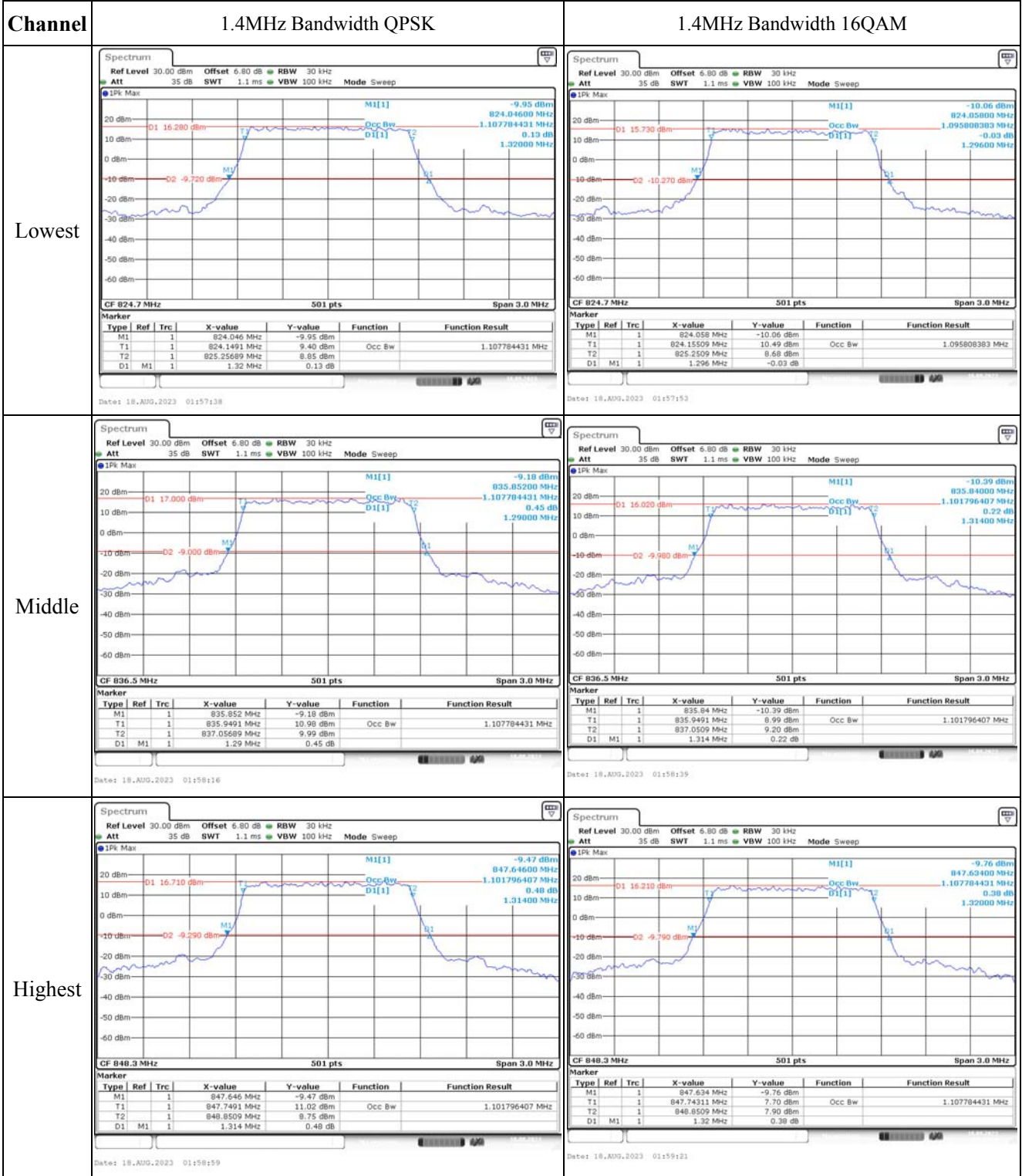
**FCC §2.1055, §22.355: Frequency Stability**

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	24	-1.22	-0.001	2.5
	-20	24	-6.97	-0.008	2.5
	-10	24	-5.5	-0.007	2.5
	0	24	6.06	0.007	2.5
	10	24	9.8	0.012	2.5
	20	24	5.03	0.006	2.5
	30	24	-6.62	-0.008	2.5
	40	24	-8.73	-0.010	2.5
	50	24	-7.05	-0.008	2.5
Frequency Stability vs. Voltage	20	12	8.99	0.011	2.5
	20	48	-7.17	-0.009	2.5
				<b>Result:</b>	<b>Pass</b>

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature(°C)	Voltage(V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	24	-0.83	-0.001	2.5
	-20	24	8.1	0.010	2.5
	-10	24	-8.59	-0.010	2.5
	0	24	9.33	0.011	2.5
	10	24	-6.94	-0.008	2.5
	20	24	7.54	0.009	2.5
	30	24	6.43	0.008	2.5
	40	24	-6.17	-0.007	2.5
	50	24	-6.44	-0.008	2.5
Frequency Stability vs. Voltage	20	12	6.34	0.008	2.5
	20	48	-6.89	-0.008	2.5
				<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



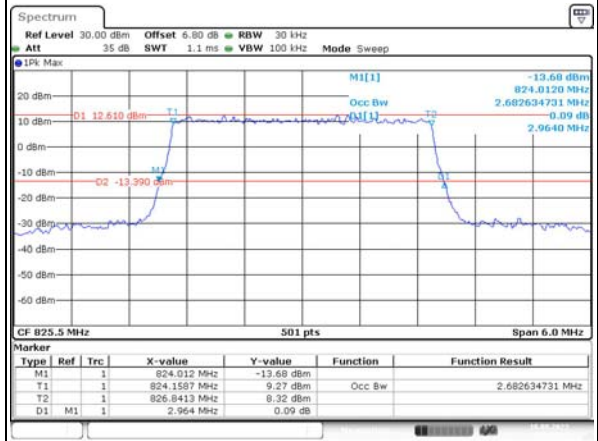
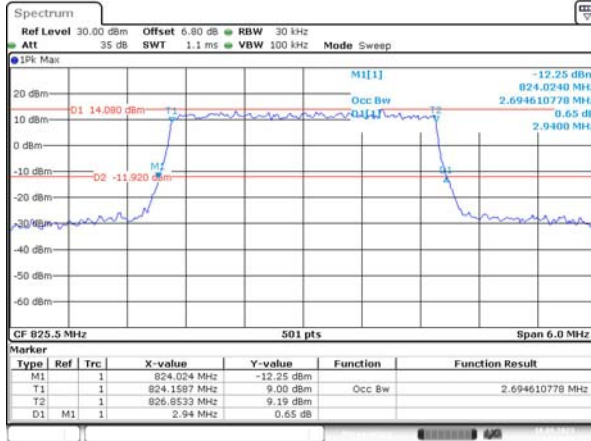
### Occupied Bandwidth

Channel

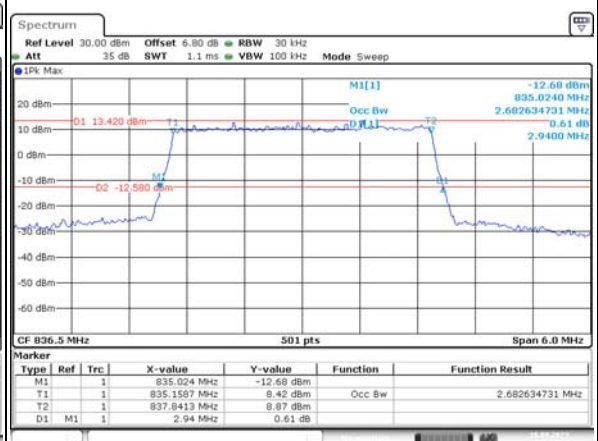
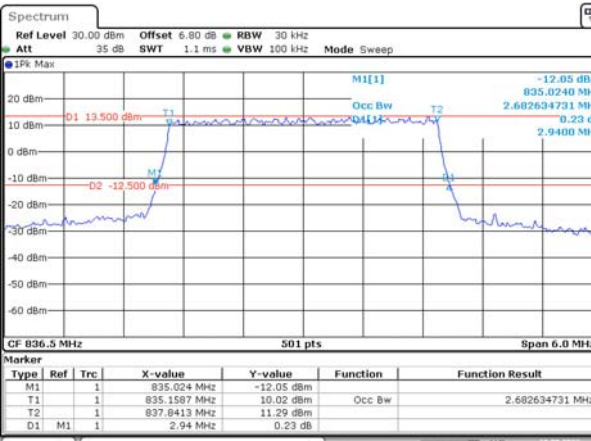
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

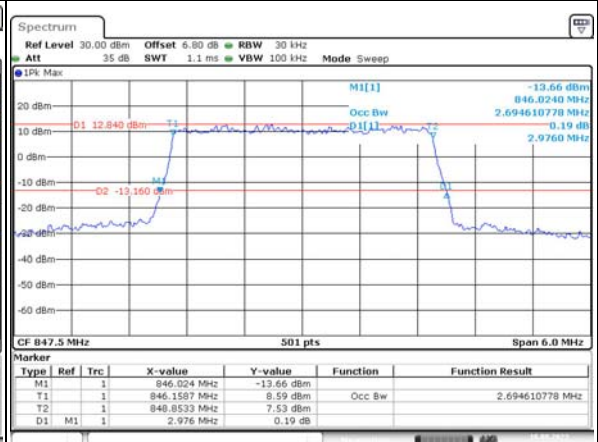
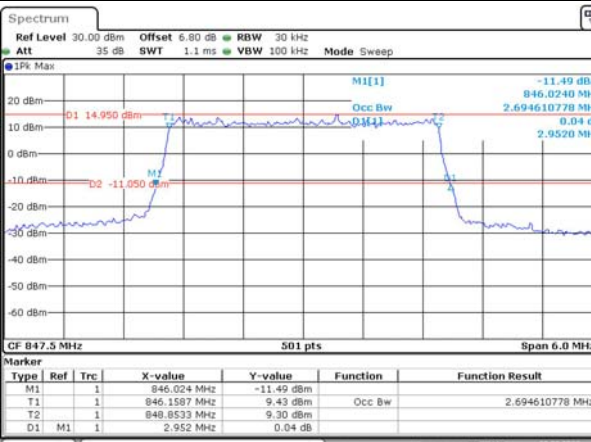
Lowest



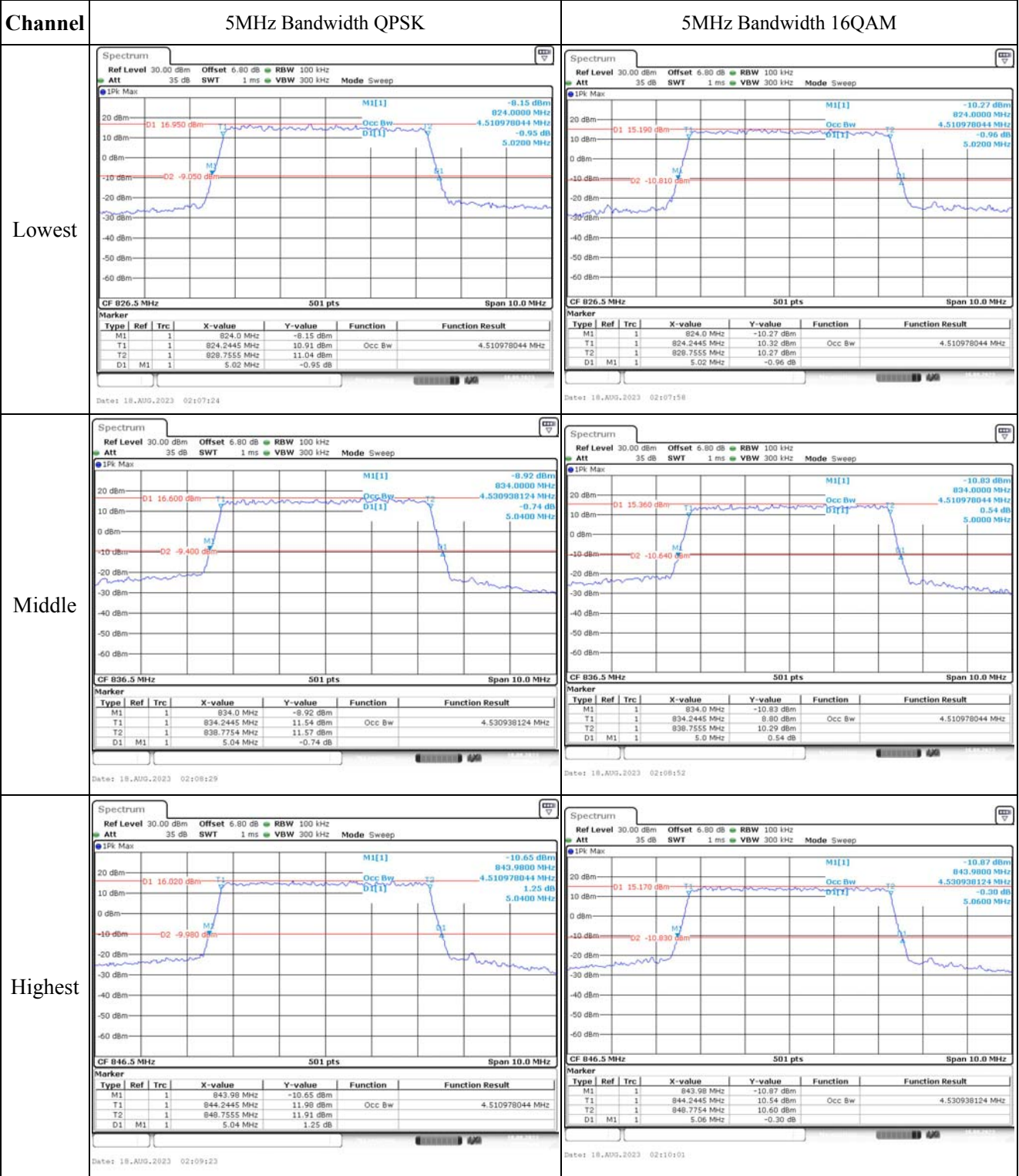
Middle



Highest

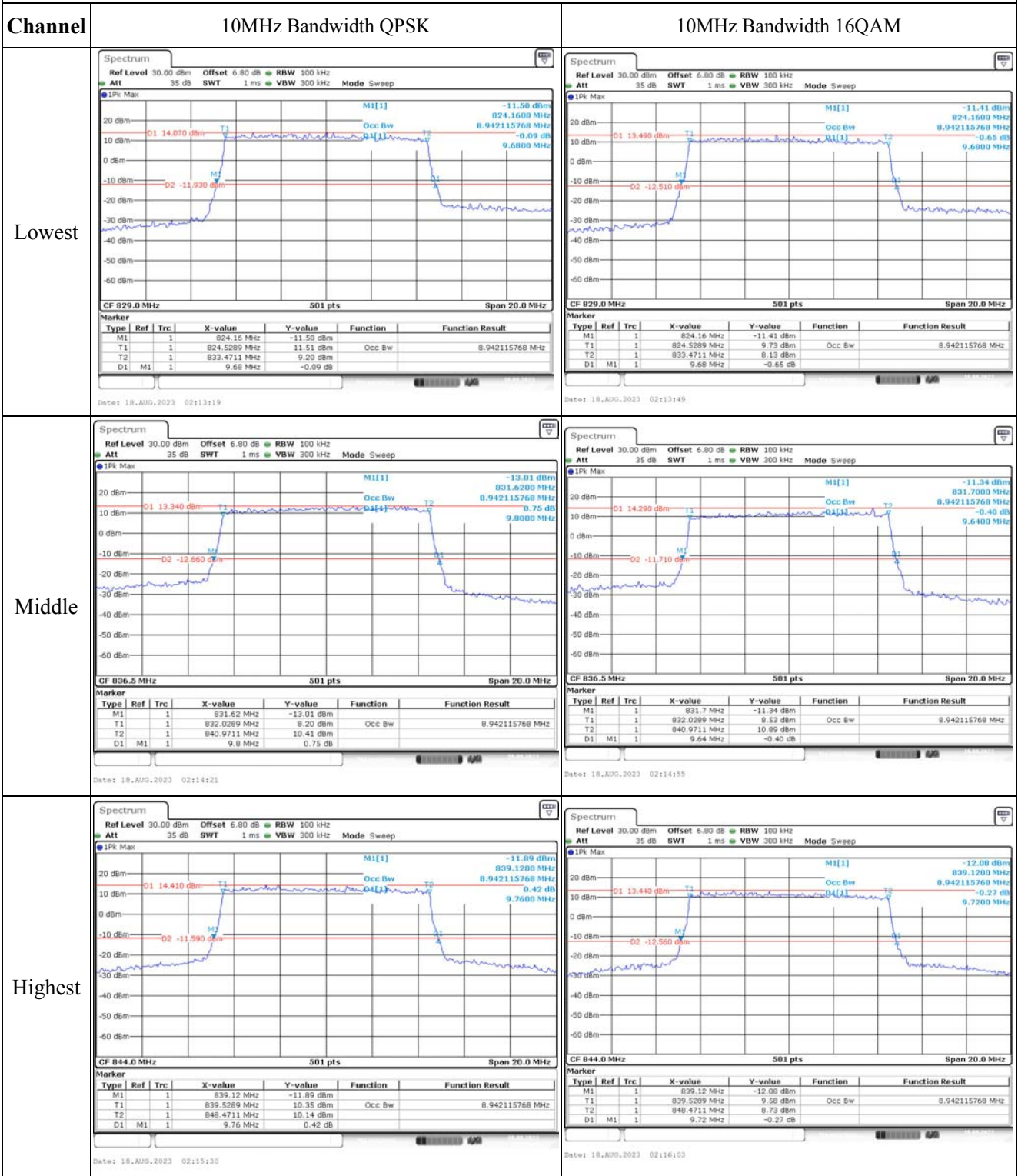


Occupied Bandwidth





Occupied Bandwidth

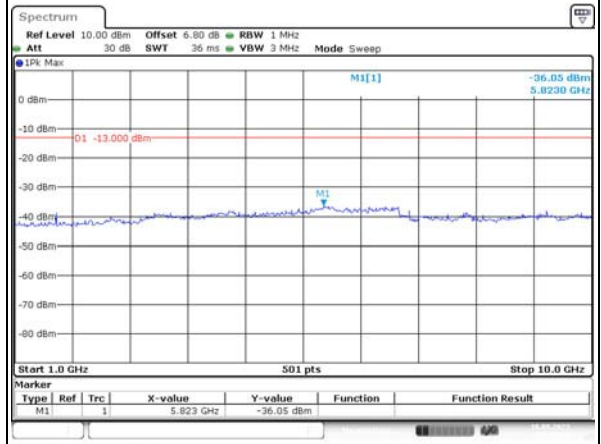
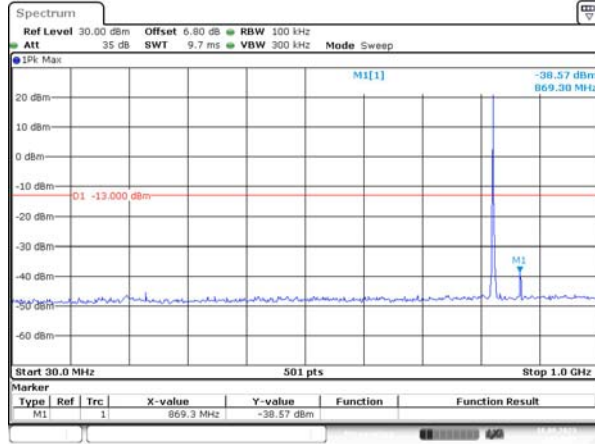


### Spurious Emissions at Antenna Terminal

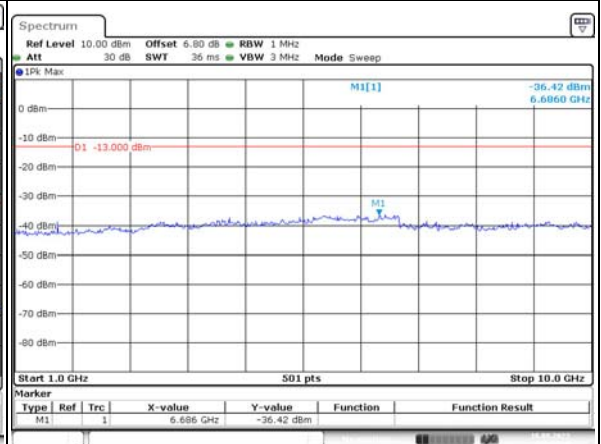
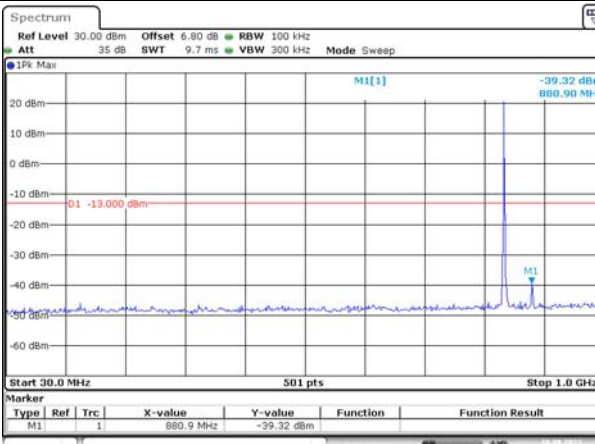
Channel

1.4MHz Bandwidth QPSK

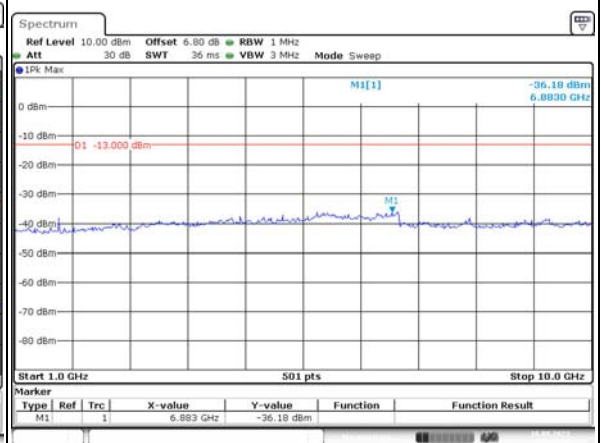
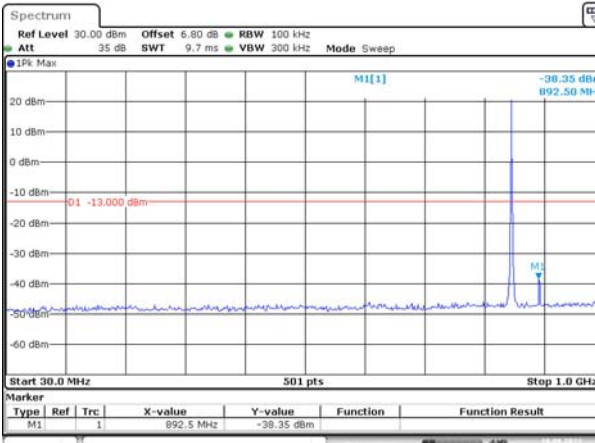
Lowest



Middle



Highest

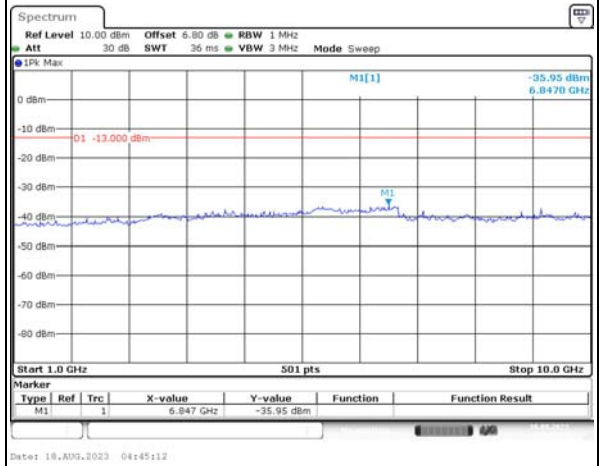
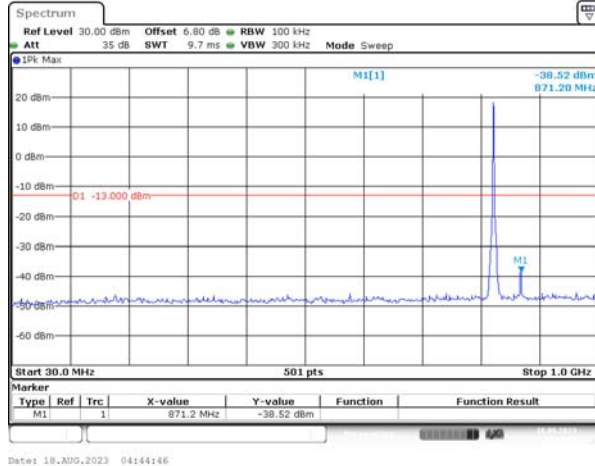


Spurious Emissions at Antenna Terminal

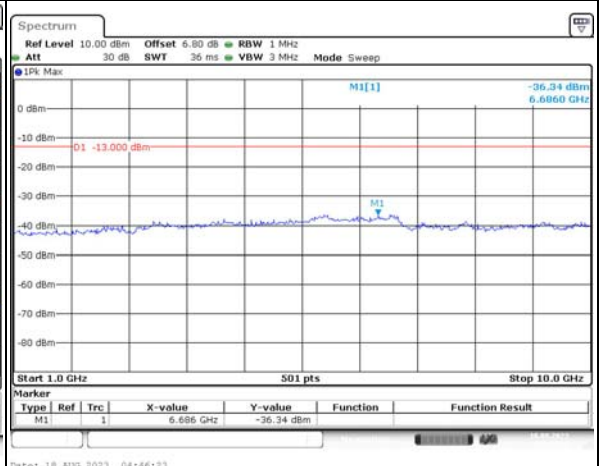
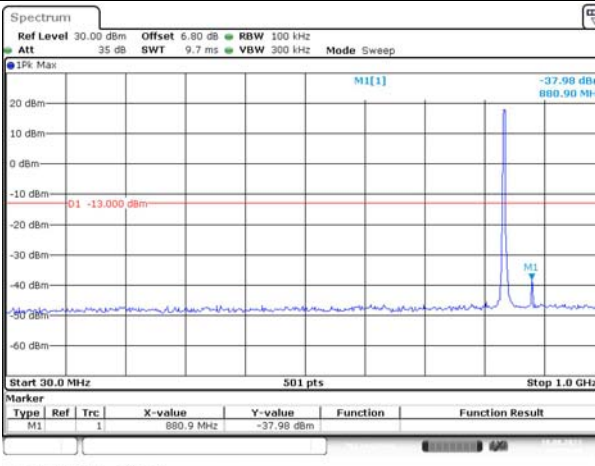
Channel

3MHz Bandwidth QPSK

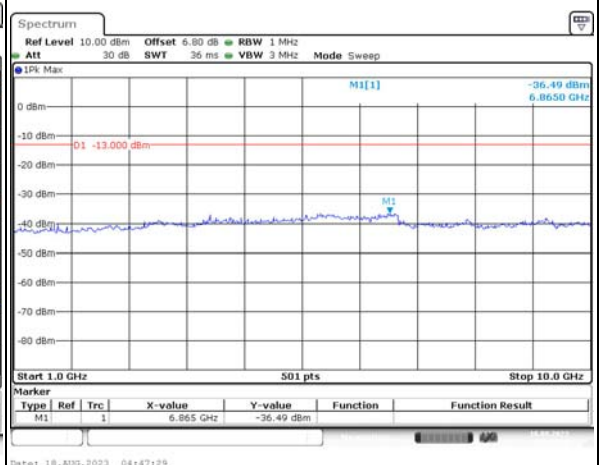
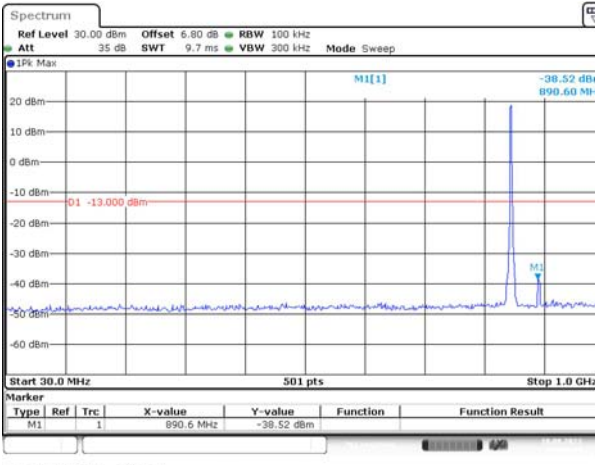
Lowest



Middle



Highest

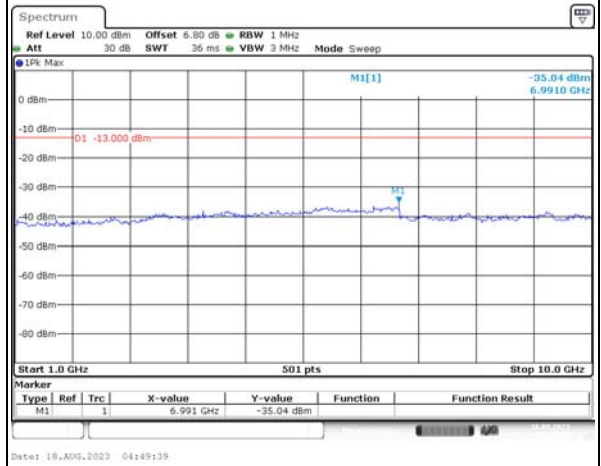
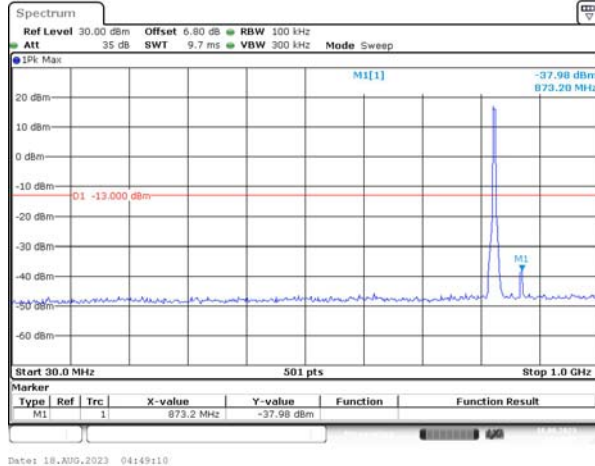


Spurious Emissions at Antenna Terminal

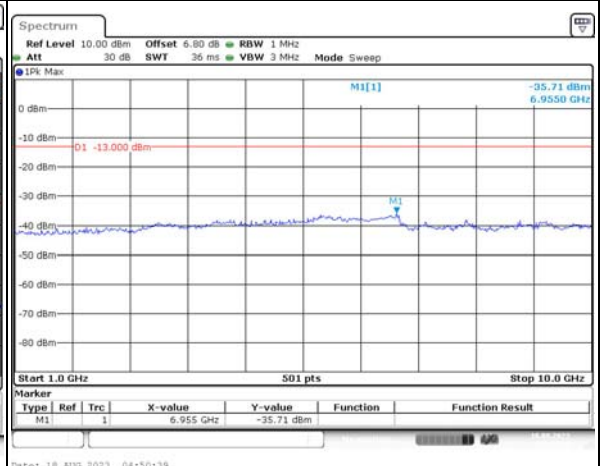
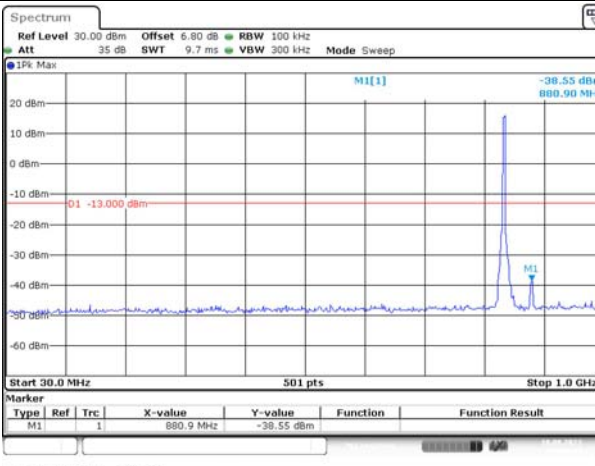
Channel

5MHz Bandwidth QPSK

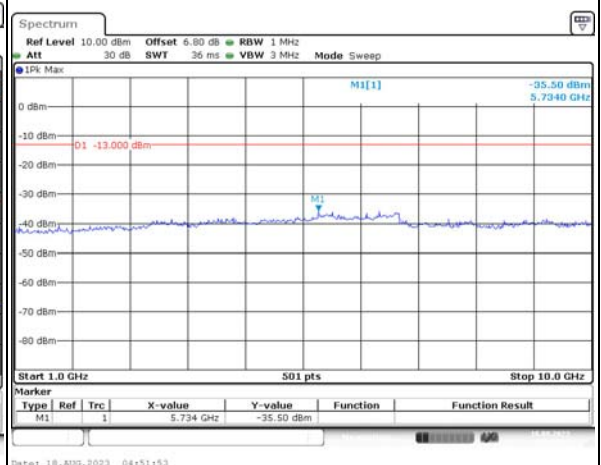
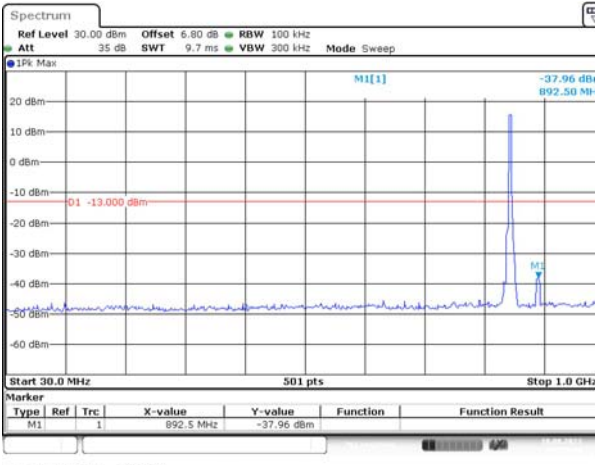
Lowest



Middle



Highest

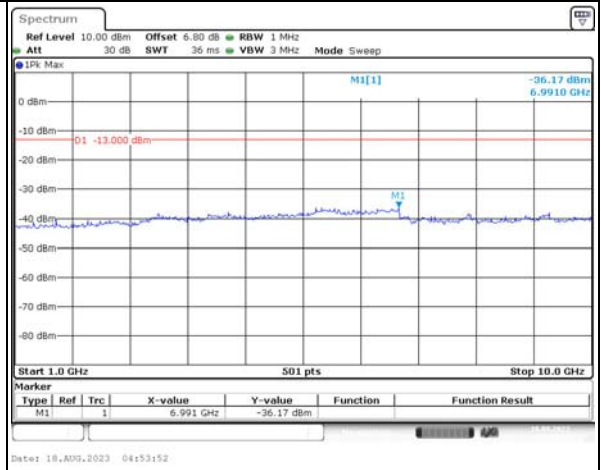
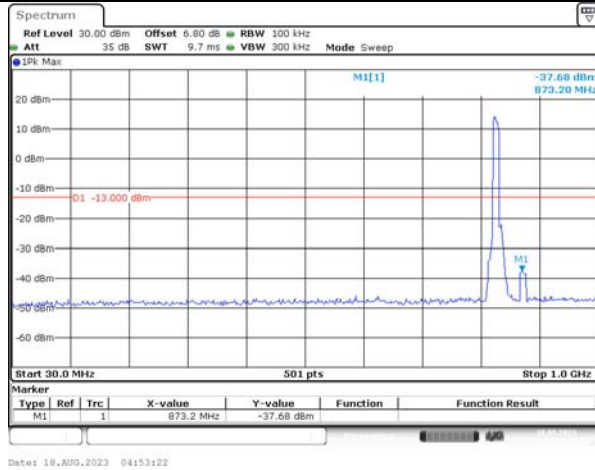


### Spurious Emissions at Antenna Terminal

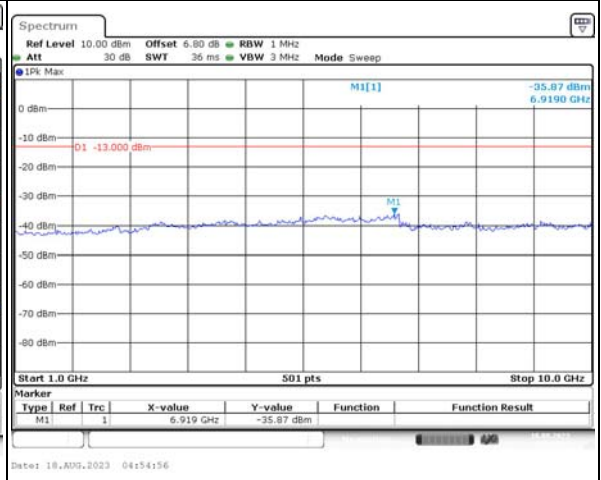
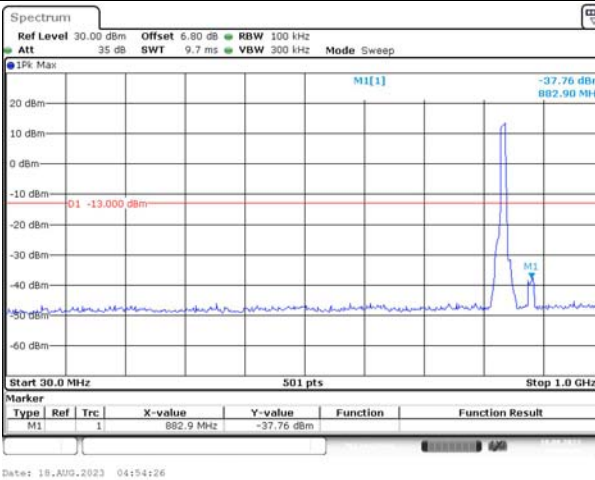
Channel

10MHz Bandwidth QPSK

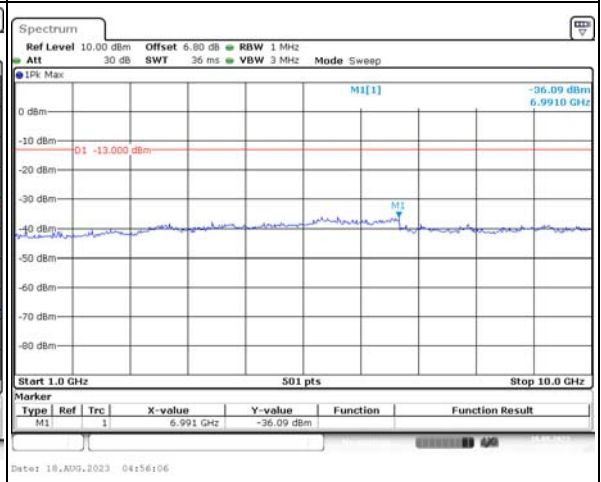
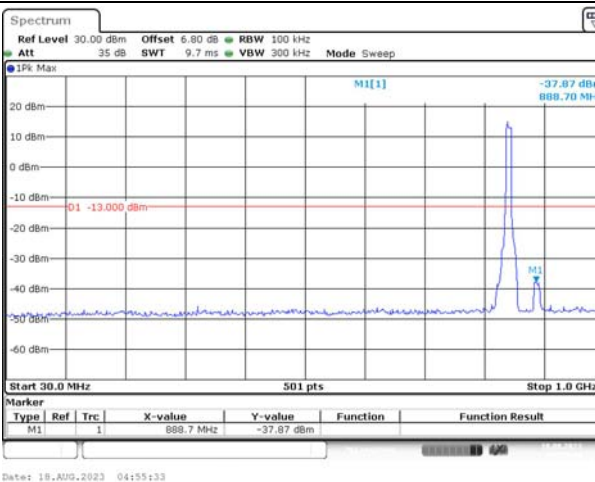
Lowest



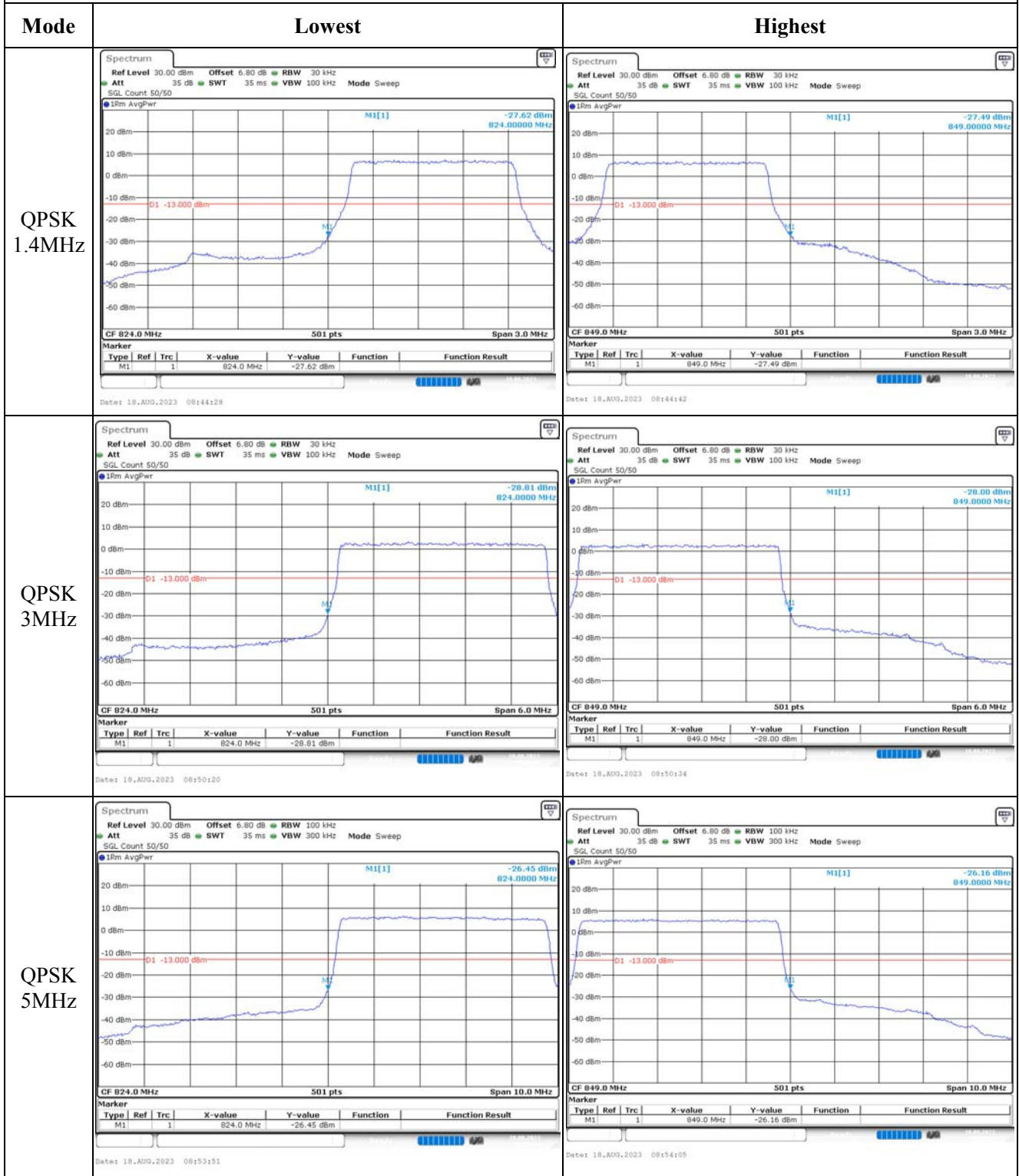
Middle



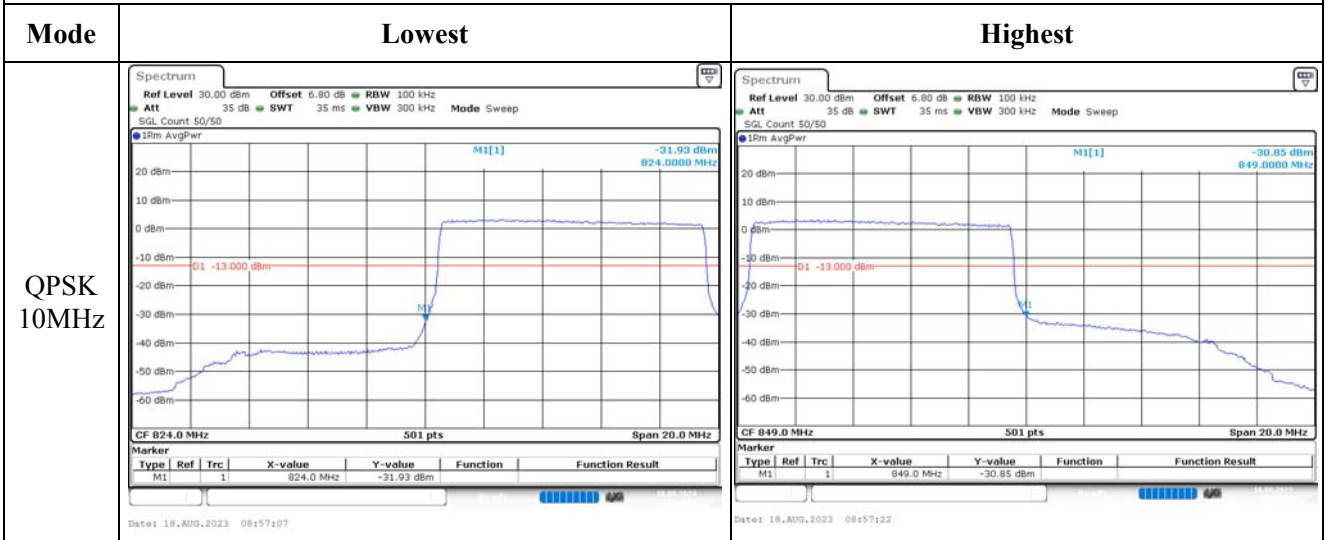
Highest



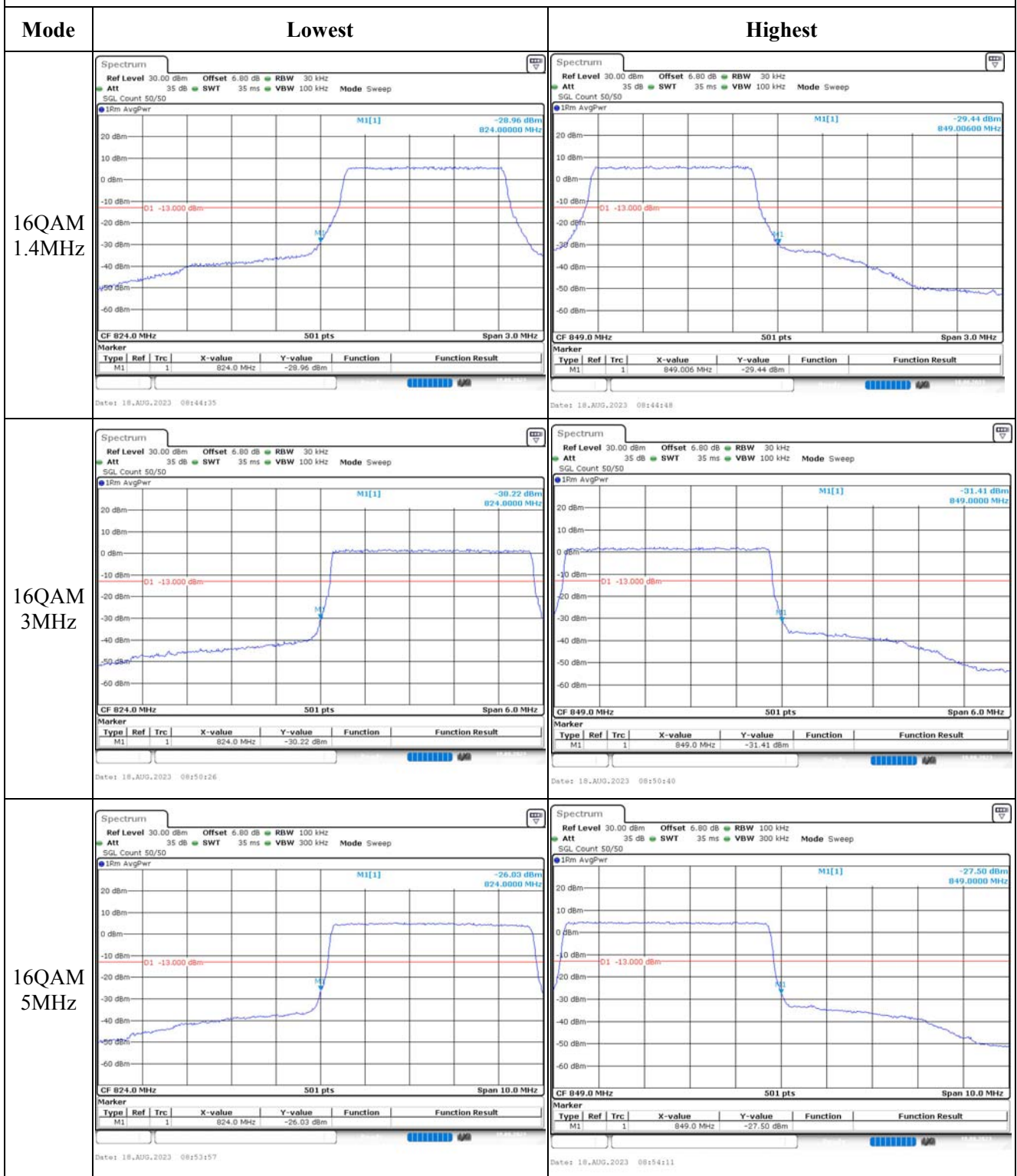
Out of band emission, Band Edge



Out of band emission, Band Edge

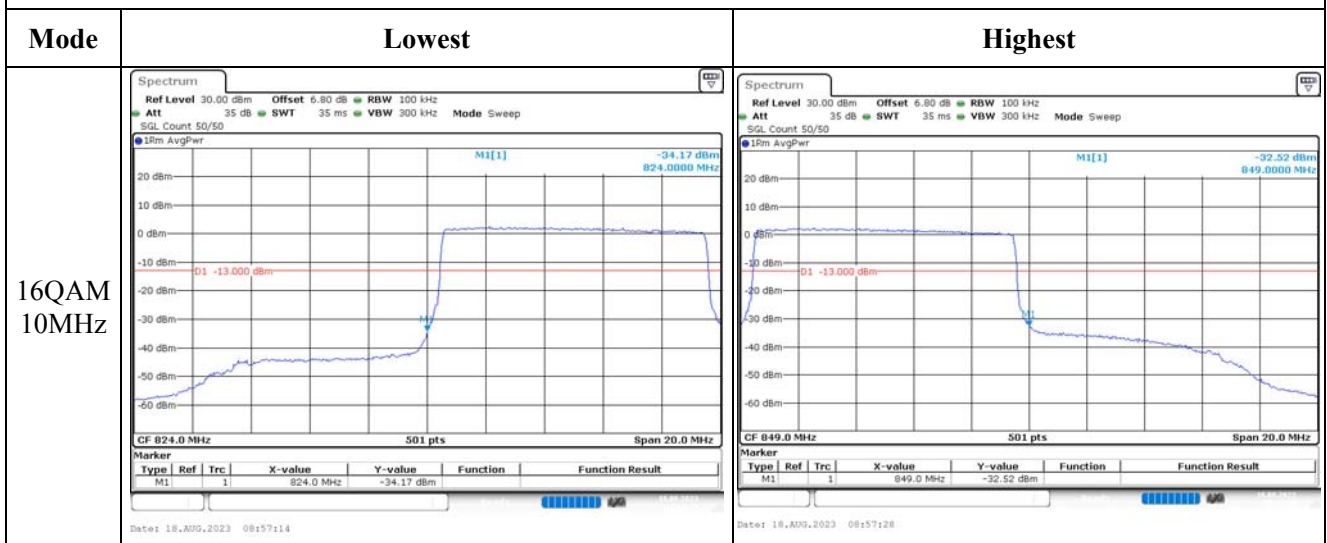


Out of band emission, Band Edge





Out of band emission, Band Edge



**4.7 Antenna Port Test Data and Results for LTE Band 12**

Serial Number:	2941-1	Test Date:	2023/8/16~2023/8/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	25.2~27.2	Relative Humidity: (%)	43~58	ATM Pressure: (kPa)	99.8~101.3
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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	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
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).

**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	23	22.87	22.95	23.78	34.77
	RB1#3	23.05	23.1	23.12		
	RB1#5	22.88	22.94	23.04		
	RB3#0	22.94	22.92	22.9		
	RB3#3	23.07	22.98	22.91		
	RB6#0	22.12	21.97	21.86		
1.4MHz 16QAM	RB1#0	22.34	22.03	22.12	23.18	34.77
	RB1#3	22.52	22.29	22.23		
	RB1#5	22.41	22.23	22		
	RB3#0	21.91	22.39	21.91		
	RB3#3	22.07	21.95	22.07		
	RB6#0	20.94	20.82	20.97		
3MHz QPSK	RB1#0	23.15	22.71	22.9	23.85	34.77
	RB1#8	23.01	22.98	22.83		
	RB1#14	23	23.19	22.94		
	RB6#0	22.13	21.96	21.8		
	RB6#9	21.94	22.09	21.85		
	RB15#0	22.17	21.97	21.9		
3MHz 16QAM	RB1#0	22.4	21.96	22.06	23.36	34.77
	RB1#8	22.47	22.04	22.01		
	RB1#14	22.27	22	22.7		
	RB6#0	21.17	20.94	20.84		
	RB6#9	21.17	21.38	20.94		
	RB15#0	21.25	21.1	21.06		
5MHz QPSK	RB1#0	23.02	22.67	22.83	23.7	34.77
	RB1#13	23.04	22.83	22.6		
	RB1#24	22.9	22.87	22.84		
	RB15#0	22.19	21.94	21.91		
	RB15#10	22.06	21.99	21.82		
	RB25#0	22.04	21.91	21.9		
5MHz 16QAM	RB1#0	22.09	22.1	21.61	23.06	34.77
	RB1#13	21.87	22.32	21.61		
	RB1#24	21.45	22.4	21.61		
	RB15#0	21.03	20.78	20.82		
	RB15#10	20.8	21.03	20.84		
	RB25#0	21.12	20.97	20.85		
10MHz QPSK	RB1#0	22.92	22.64	22.74	23.82	34.77
	RB1#25	22.72	23.16	22.97		
	RB1#49	22.92	22.9	23		

	RB25#0	21.9	21.68	22.05		
	RB25#25	21.97	21.93	21.97		
	RB50#0	21.83	21.8	21.93		
10MHz 16QAM	RB1#0	22.35	21.7	22.32	23.6	34.77
	RB1#25	22.32	22.43	22.77		
	RB1#49	22.94	22.42	22.62		
	RB25#0	20.96	20.94	21.01		
	RB25#25	21.08	21	20.9		
	RB50#0	20.98	20.93	20.92		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

**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	4.52	4.52	13
	RB50#0	4.93	4.93	4.75	13
10MHz 16QAM	RB1#0	5.3	5.36	5.39	13
	RB50#0	5.88	5.88	5.83	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	1.108	1.102	1.326	1.296	1.32
1.4MHz 16QAM	1.096	1.102	1.108	1.308	1.308	1.32
3MHz QPSK	2.695	2.695	2.695	2.94	2.964	2.952
3MHz 16QAM	2.683	2.683	2.695	2.952	2.964	2.976
5MHz QPSK	4.511	4.511	4.531	5	5	5.04
5MHz 16QAM	4.531	4.531	4.511	5.02	5.02	5.04
10MHz QPSK	8.942	8.982	8.902	9.76	9.84	9.6
10MHz 16QAM	8.942	8.982	8.942	9.76	9.68	9.72

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

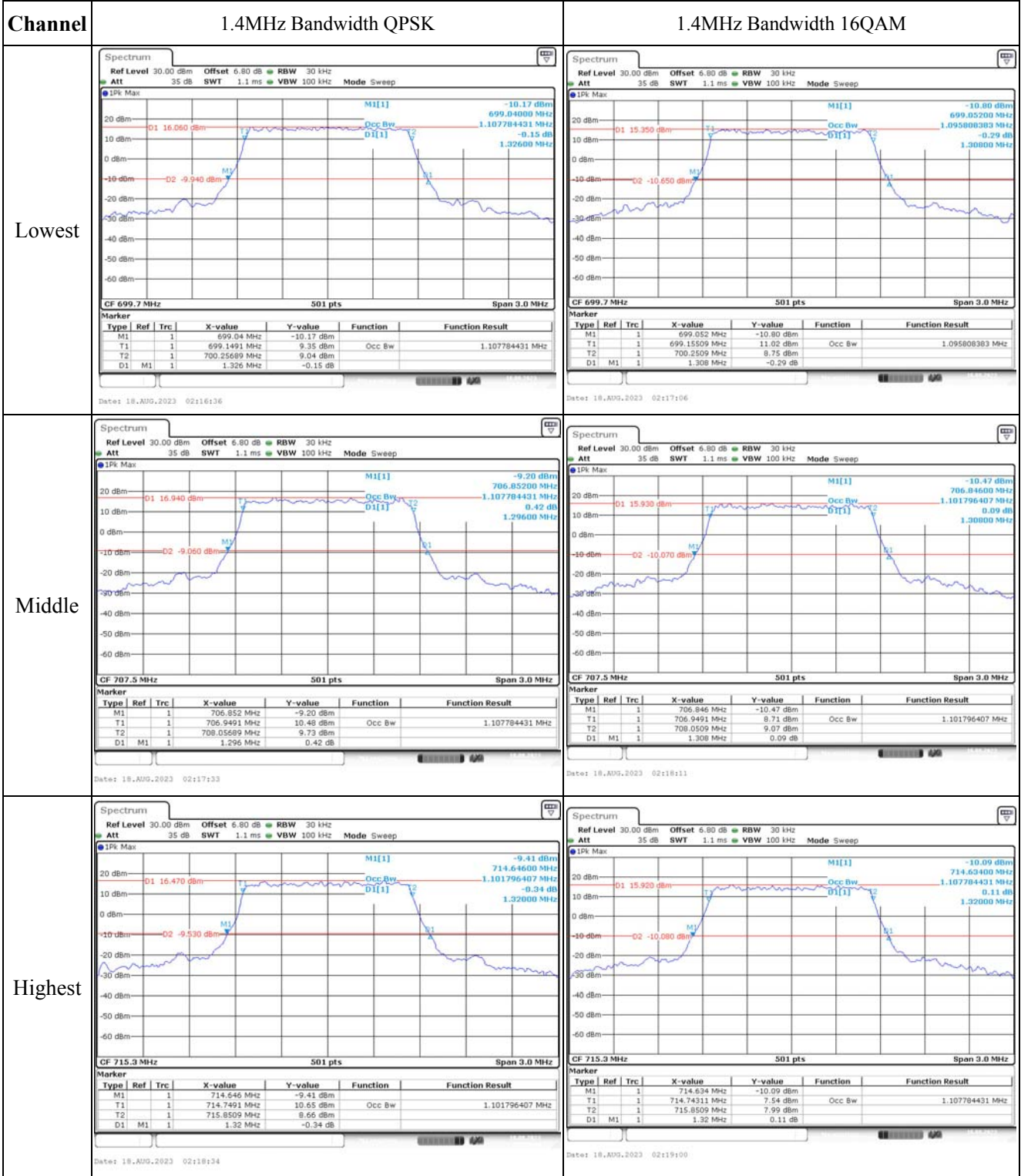
**FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal****Result:****Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.****FCC §2.1051, §27.53:Out of band emission, Band Edge****Result:****Pass, Please refer to the test plots of Out of band emission, Band Edge.**

<b>FCC §2.1055, §27.54: Frequency Stability</b>						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	24	699.512	699.00	715.432	716.00
	-20	24	699.518	699.00	715.478	716.00
	-10	24	699.524	699.00	715.442	716.00
	0	24	699.566	699.00	715.469	716.00
	10	24	699.548	699.00	715.495	716.00
	20	24	699.529	699.00	715.471	716.00
	30	24	699.502	699.00	715.406	716.00
	40	24	699.567	699.00	715.464	716.00
	50	24	699.562	699.00	715.422	716.00
Frequency Stability vs. Voltage	20	12	699.596	699.00	715.416	716.00
	20	48	699.583	699.00	715.484	716.00
					<b>Result:</b>	<b>Pass</b>

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature(°C)	Voltage(V <sub>DC</sub> )	Lower Edge(MHz)		Upper Edge(MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	12	699.584	699.00	715.413	716.00
	-20	12	699.514	699.00	715.469	716.00
	-10	12	699.532	699.00	715.422	716.00
	0	12	699.548	699.00	715.490	716.00
	10	12	699.599	699.00	715.493	716.00
	20	12	699.529	699.00	715.471	716.00
	30	12	699.569	699.00	715.453	716.00
	40	12	699.530	699.00	715.410	716.00
	50	12	699.585	699.00	715.408	716.00
Frequency Stability vs. Voltage	20	12	699.554	699.00	715.413	716.00
	20	48	699.561	699.00	715.448	716.00
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 6.8dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**



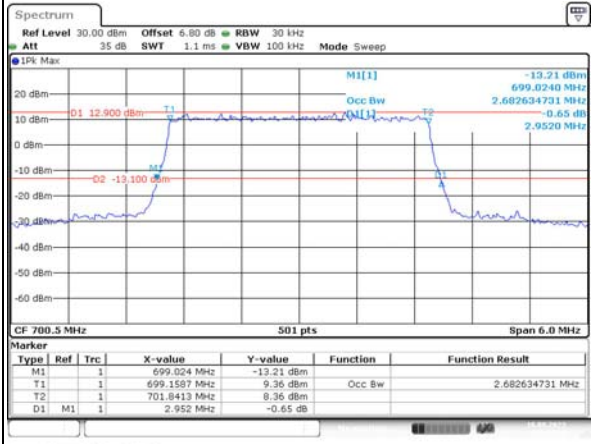
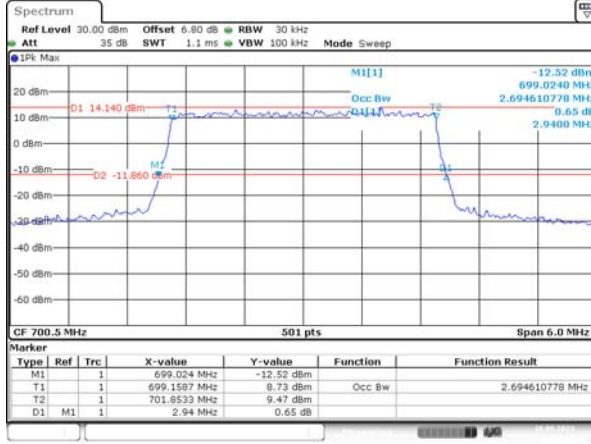
Occupied Bandwidth

Channel

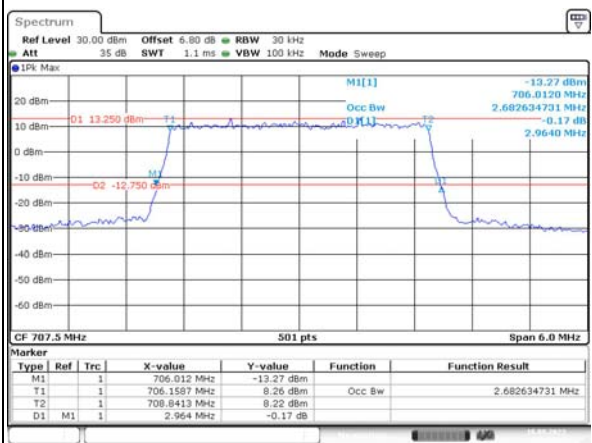
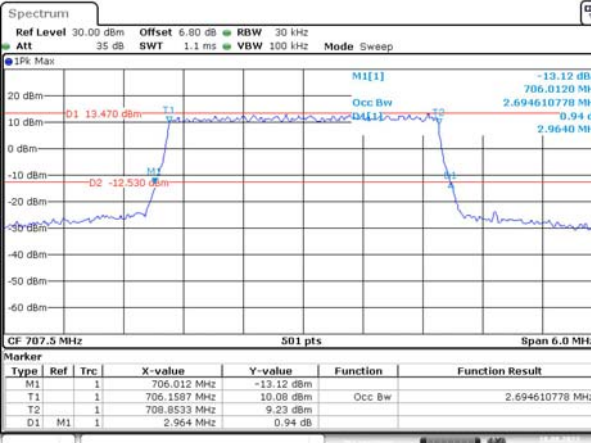
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

Lowest



Middle



Highest

