

### Occupied Bandwidth

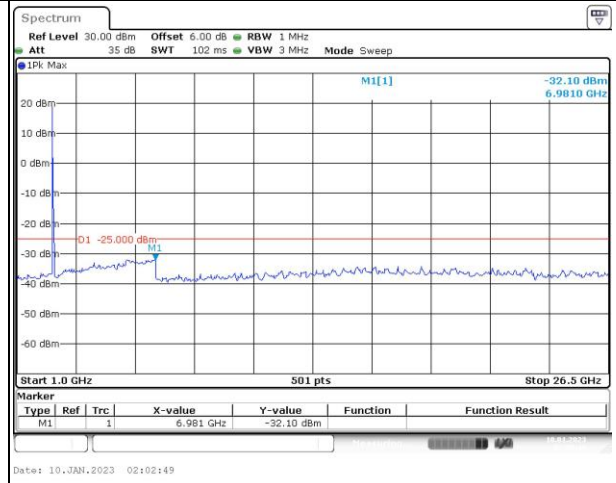
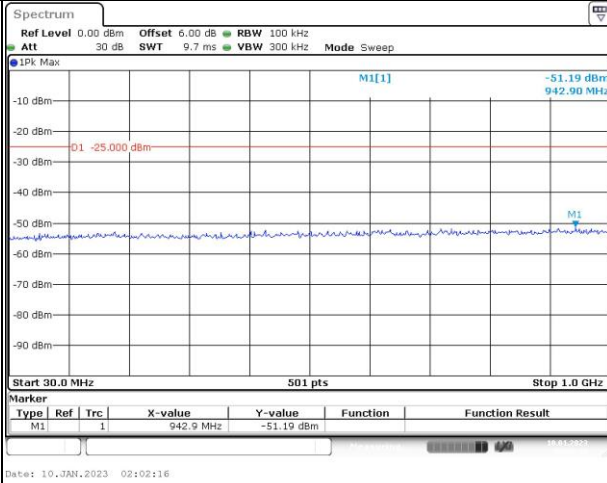
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### Spurious Emissions at Antenna Terminal

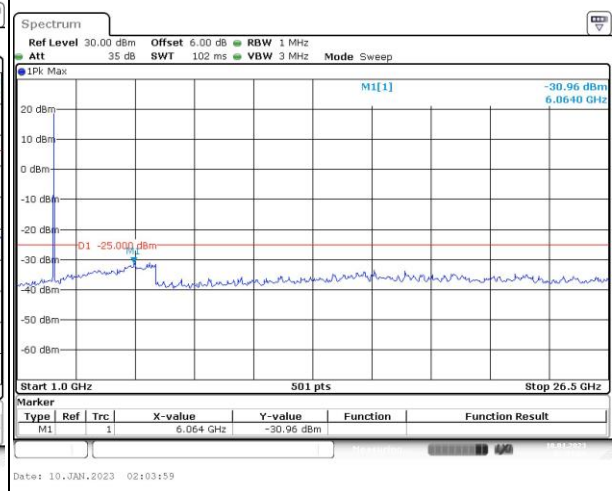
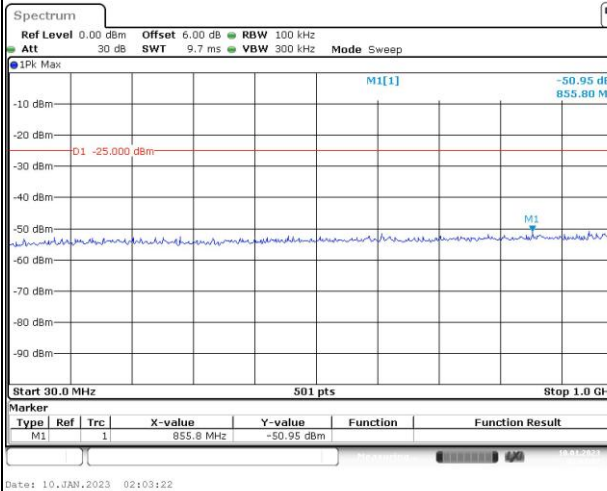
Channel

5MHz Bandwidth QPSK

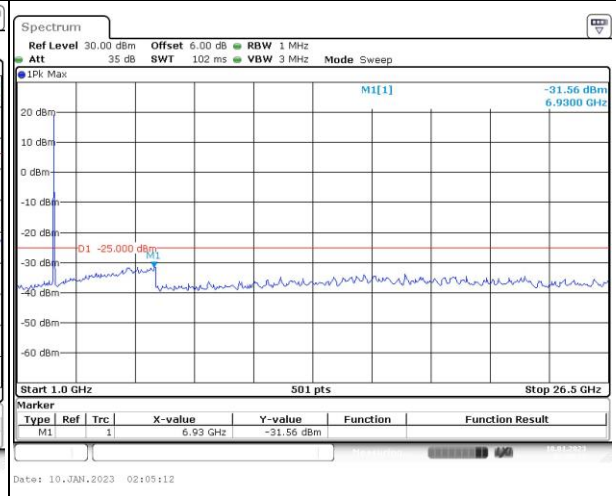
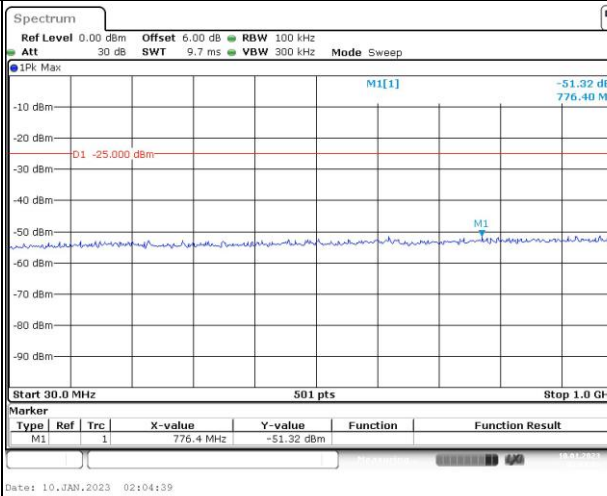
Lowest



Middle



Highest

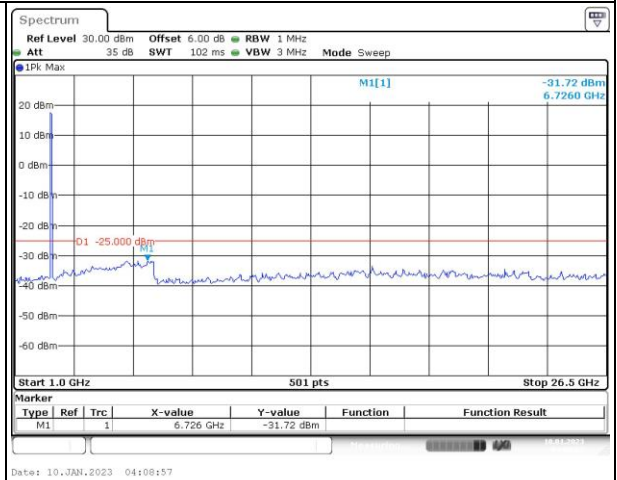
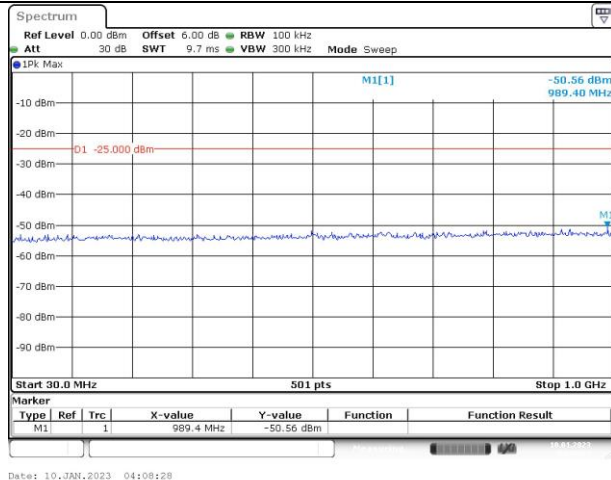


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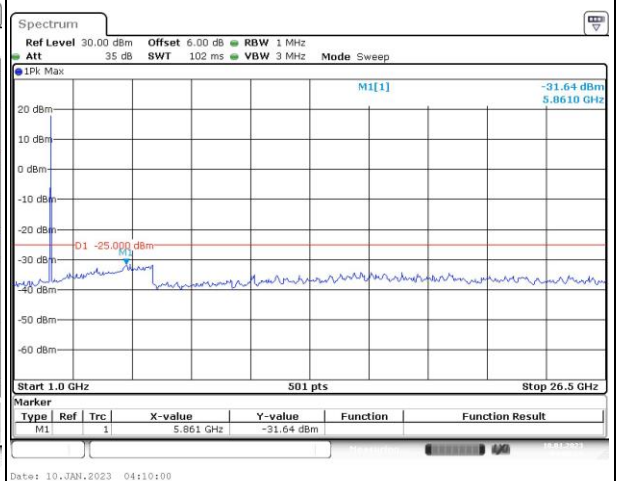
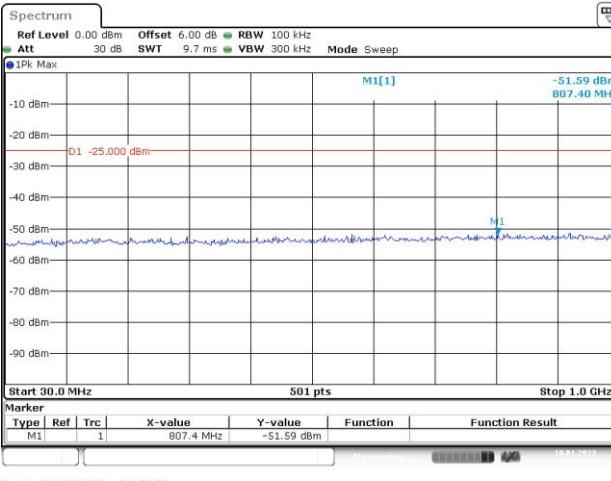
Channel

10MHz Bandwidth QPSK

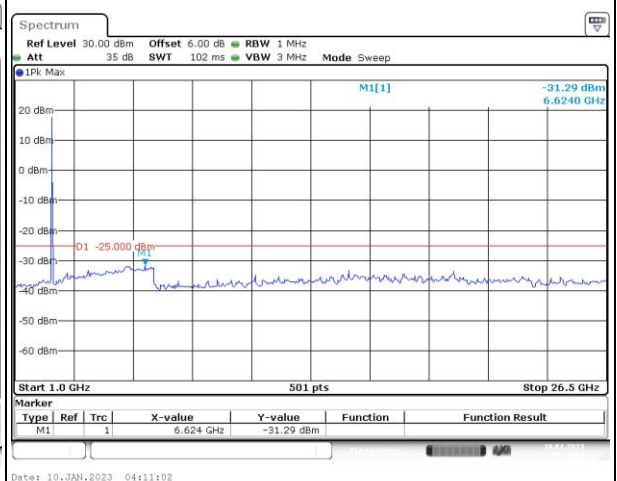
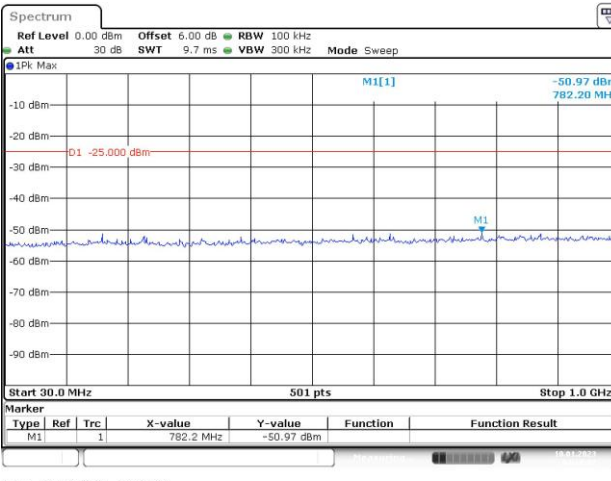
Lowest



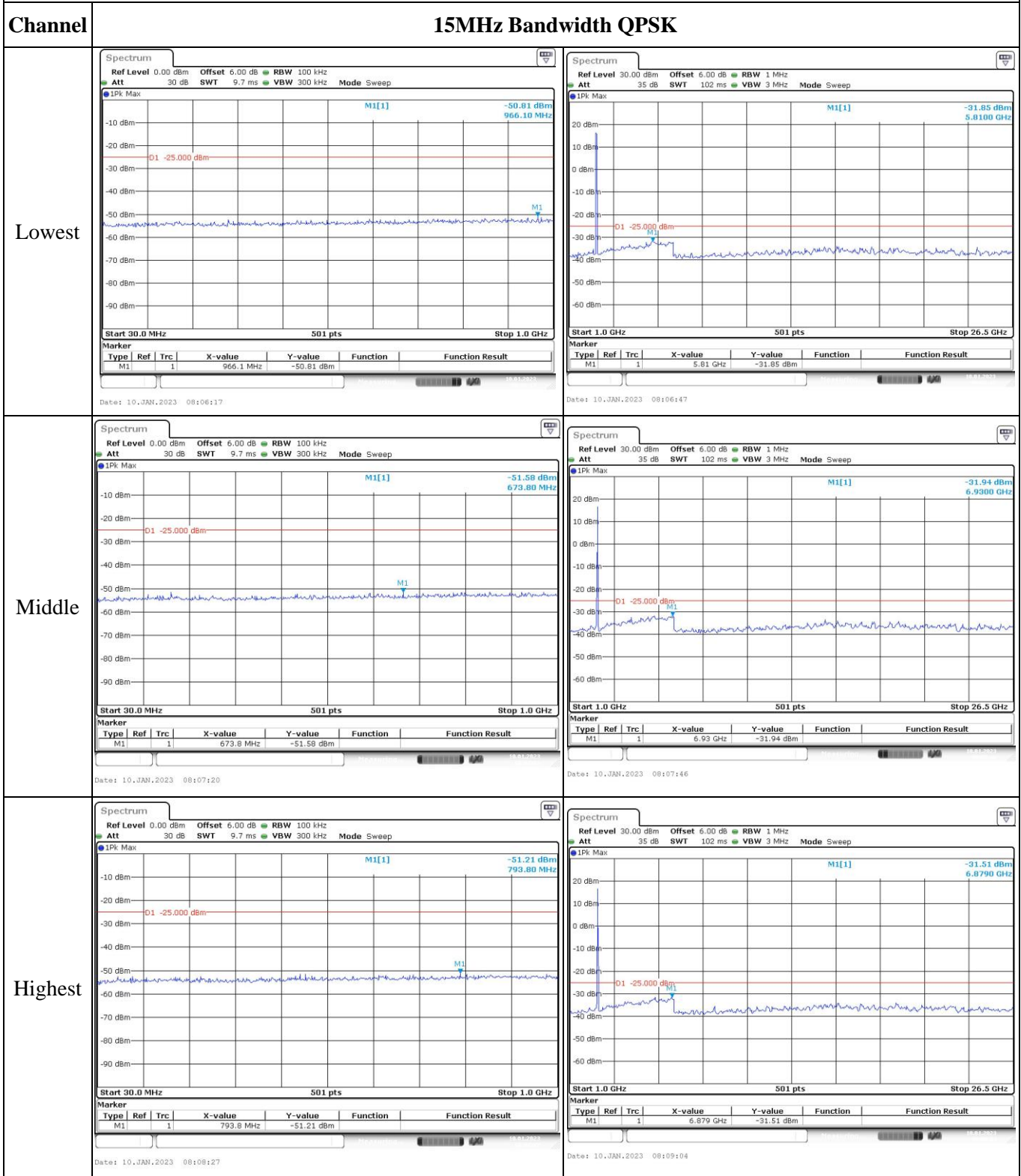
Middle



Highest



### Spurious Emissions at Antenna Terminal

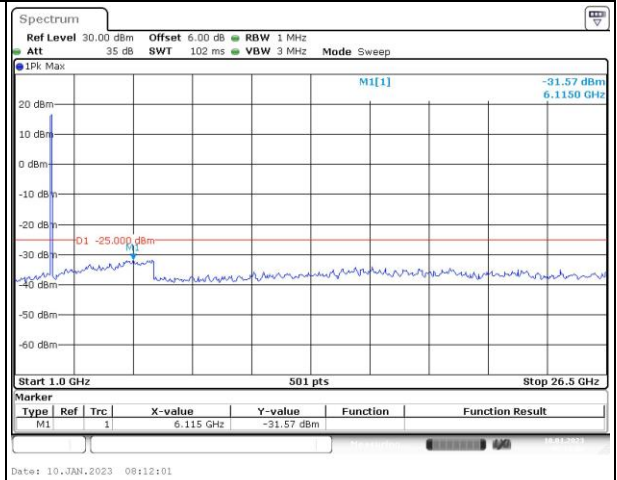
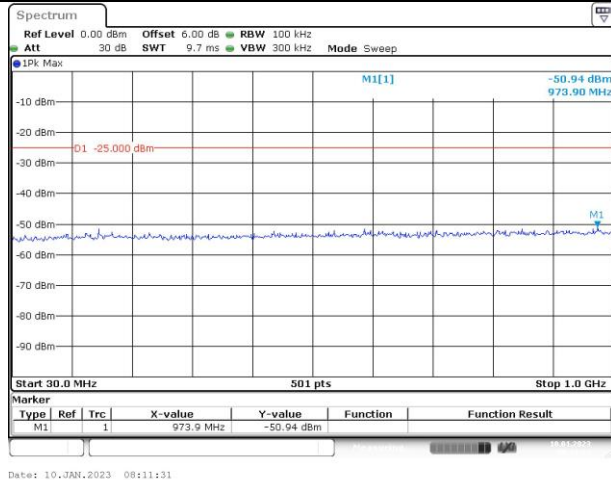


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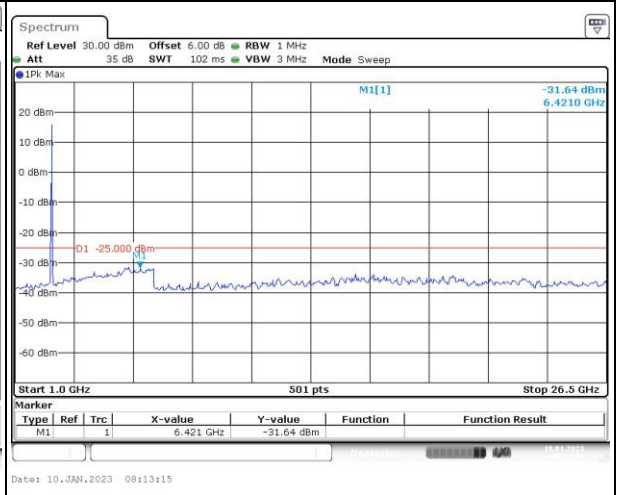
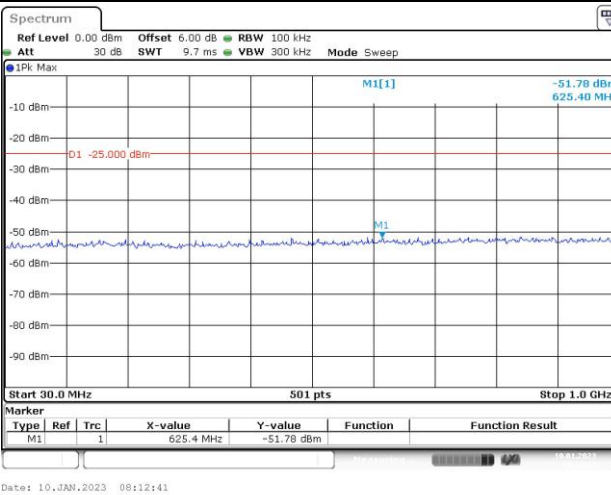
Channel

20MHz Bandwidth QPSK

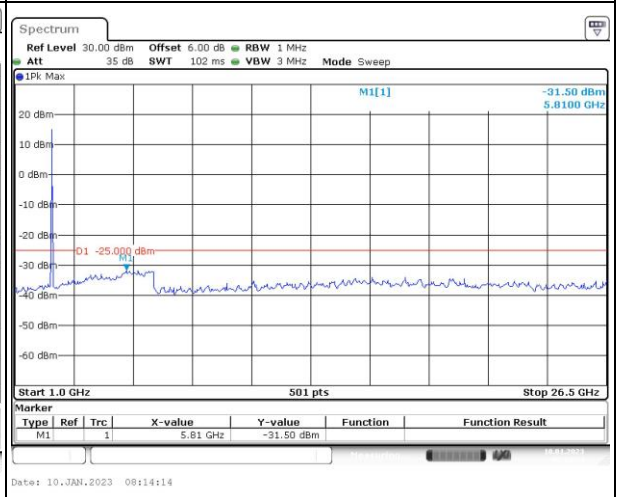
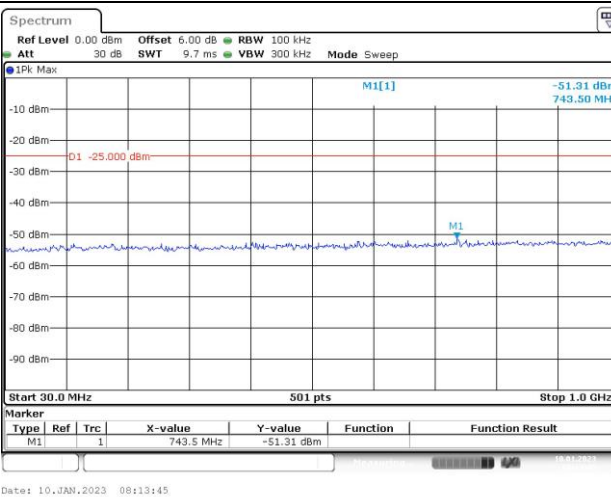
Lowest



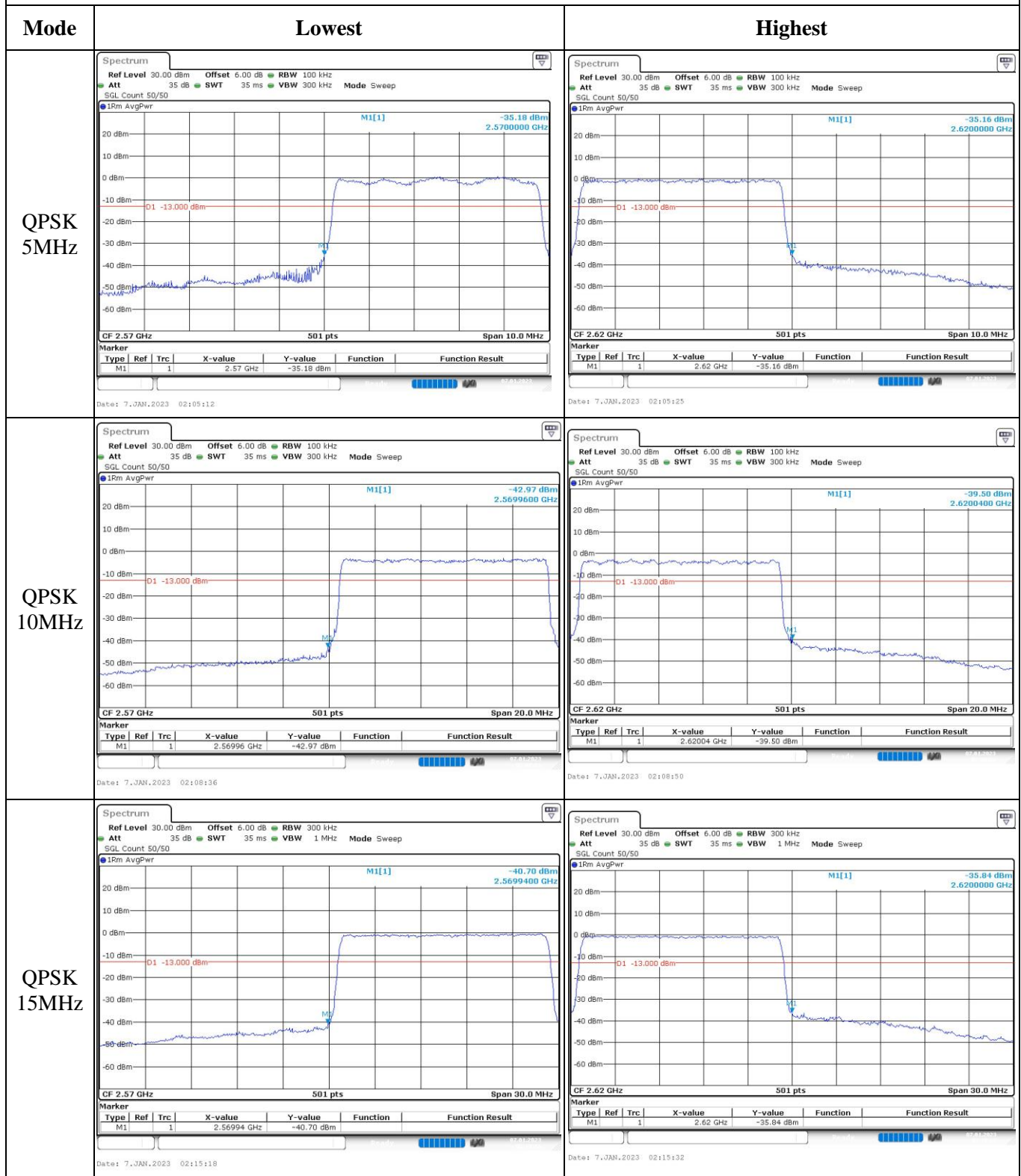
Middle



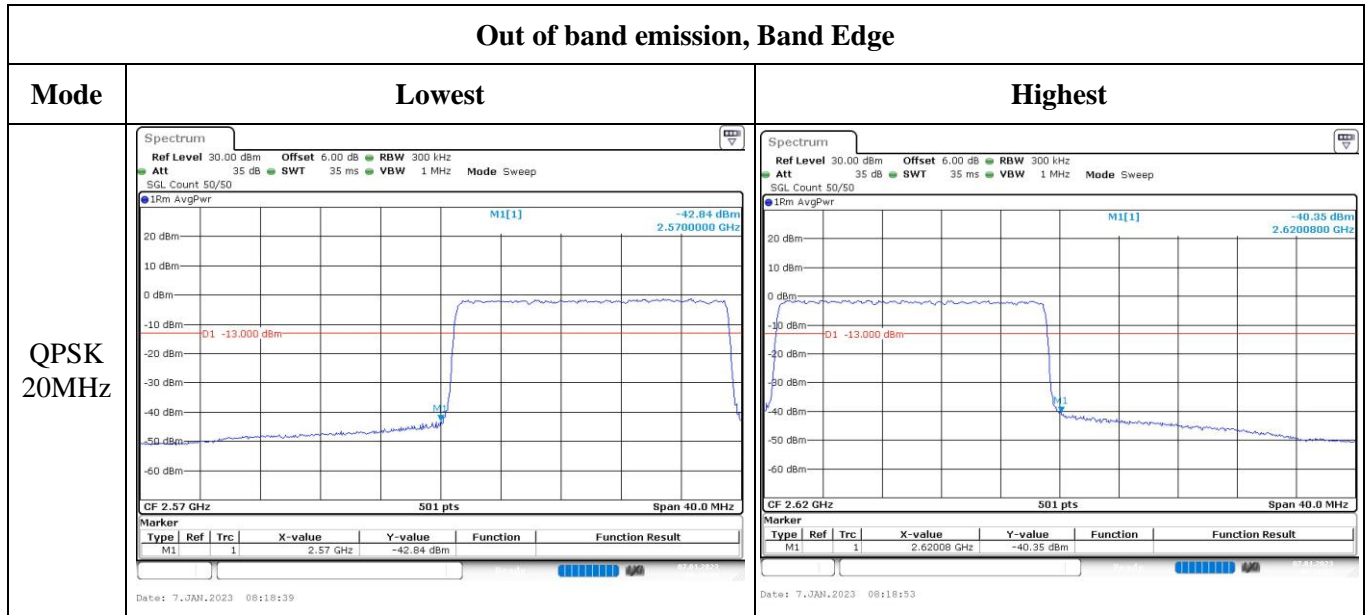
Highest



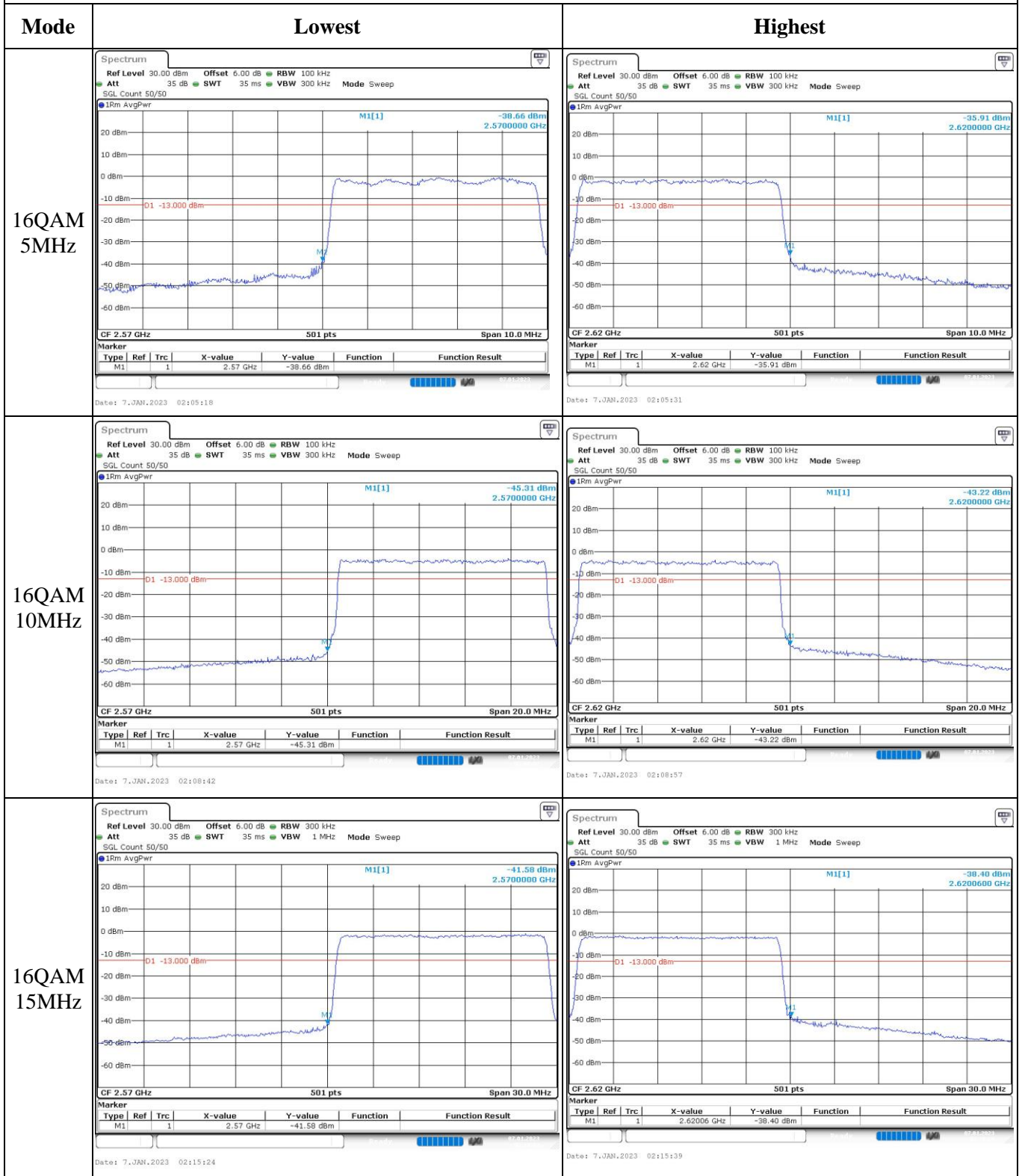
### Out of band emission, Band Edge



Out of band emission, Band Edge

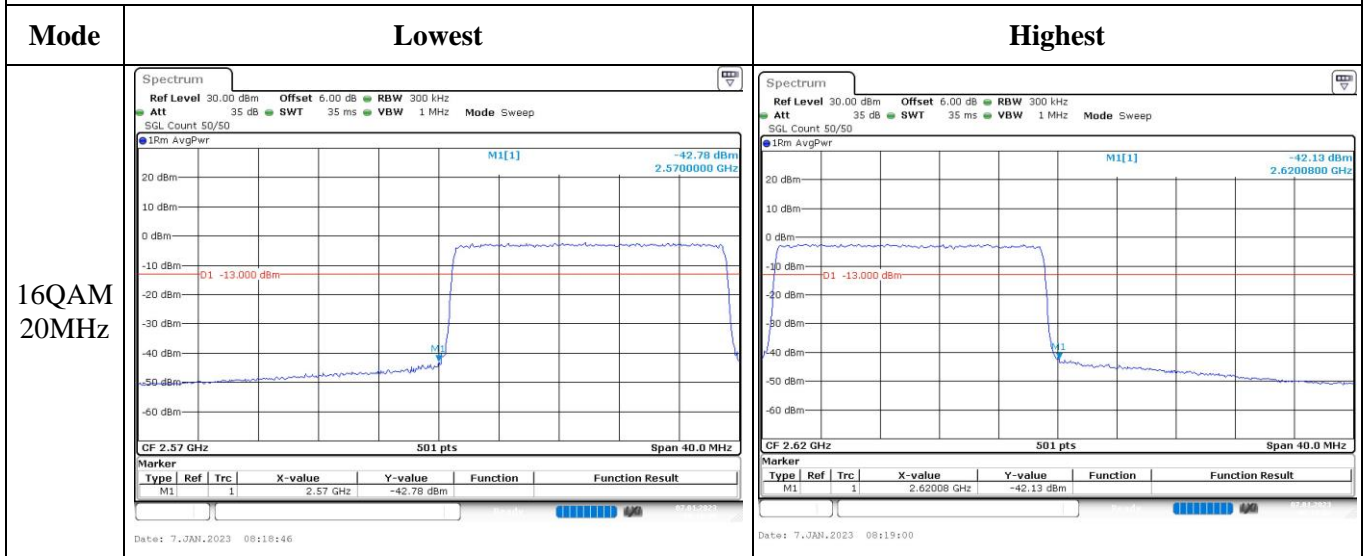


### Out of band emission, Band Edge





Out of band emission, Band Edge



**4.11 Antenna Port Test Data and Results for LTE Band 41**

Serial Number:	1WP8	Test Date:	2023/2/15
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	23.8	Relative Humidity: (%)	56	ATM Pressure: (kPa)	101.7
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**Test Equipment List and Details:**

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211009	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211006	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100002	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	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	2022-09-30	2023-09-29
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).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2537.5	2595	2652.5
10MHz	2540	2595	2650
15MHz	2542.5	2595	2647.5
20MHz	2545	2595	2645

**Test Data:**

<b>FCC §2.1046; § 27.50(h)(2)</b>						
<b>RF Output Power:</b>						
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	21.15	21.18	21.3	21.04	33
	RB1#13	21.3	21.19	21.54		
	RB1#24	21.28	21.03	21.5		
	RB15#0	20.21	20.12	20.39		
	RB15#10	20.28	20.08	20.49		
	RB25#0	20.28	20.14	20.43		
5MHz 16QAM	RB1#0	20.14	20.17	20.53	20.23	33
	RB1#13	20.29	20.21	20.73		
	RB1#24	20.26	20.05	20.7		
	RB15#0	19.22	19.16	19.43		
	RB15#10	19.24	19.11	19.52		
	RB25#0	19.31	19.13	19.39		
10MHz QPSK	RB1#0	21.25	21.35	21.11	21.11	33
	RB1#25	21.61	21.44	21.52		
	RB1#49	21.46	21.05	21.49		
	RB25#0	20.36	20.25	20.25		
	RB25#25	20.42	20.11	20.43		
	RB50#0	20.36	20.19	20.31		
10MHz 16QAM	RB1#0	20.11	20.39	20.31	20.28	33
	RB1#25	20.48	20.46	20.78		
	RB1#49	20.32	20.06	20.71		
	RB25#0	19.39	19.27	19.22		
	RB25#25	19.5	19.1	19.37		
	RB50#0	19.41	19.22	19.41		
15MHz QPSK	RB1#0	21.2	21.26	20.93	20.97	33
	RB1#38	21.43	21.15	21.29		
	RB1#74	21.45	20.86	21.47		
	RB36#0	20.43	20.28	20.11		
	RB36#39	20.54	20.09	20.43		
	RB75#0	20.46	20.18	20.28		
15MHz 16QAM	RB1#0	20.08	20.43	20.1	20.18	33
	RB1#38	20.29	20.27	20.48		
	RB1#74	20.37	20.04	20.68		
	RB36#0	19.32	19.26	19.09		
	RB36#39	19.42	19.06	19.47		
	RB75#0	19.43	19.15	19.19		
20MHz QPSK	RB1#0	21.02	21.28	20.58	21.16	33

	RB1#50	21.66	21.45	21.41		
	RB1#99	21.39	20.73	21.32		
	RB50#0	20.3	20.24	19.9		
	RB50#50	20.51	19.96	20.31		
	RB100#0	20.43	20.09	20.15		
20MHz 16QAM	RB1#0	19.98	20.47	19.65	20.14	33
	RB1#50	20.64	20.63	20.48		
	RB1#99	20.4	19.91	20.41		
	RB50#0	19.45	19.23	18.89		
	RB50#50	19.59	18.93	19.31		
	RB100#0	19.48	19.07	19.13		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)						
					<b>Result:</b>	<b>Pass</b>

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	8.35	9.16	10.03	13	
	RB100#0	9.07	10.52	8.52	13	
20MHz 16QAM	RB1#0	8.46	11.13	11.65	13	
	RB100#0	8.41	9.39	9.59	13	
					<b>Result:</b>	<b>Pass</b>

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	4.491	4.511	4.491	4.96	4.96	5.12
5MHz 16QAM	4.511	4.511	4.511	5.1	5.16	4.92
10MHz QPSK	8.942	8.942	8.982	9.64	9.72	9.64
10MHz 16QAM	8.942	8.942	8.942	9.52	9.84	9.52
15MHz QPSK	13.473	13.473	13.473	15.54	15.54	15.12
15MHz 16QAM	13.593	13.533	13.593	16.02	16.5	16.02
20MHz QPSK	17.964	17.884	17.964	19.68	20	19.76
20MHz 16QAM	17.964	17.884	17.964	21.04	19.68	19.6
Note: The test plots please refer to the Plots of Occupied Bandwidth						

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>

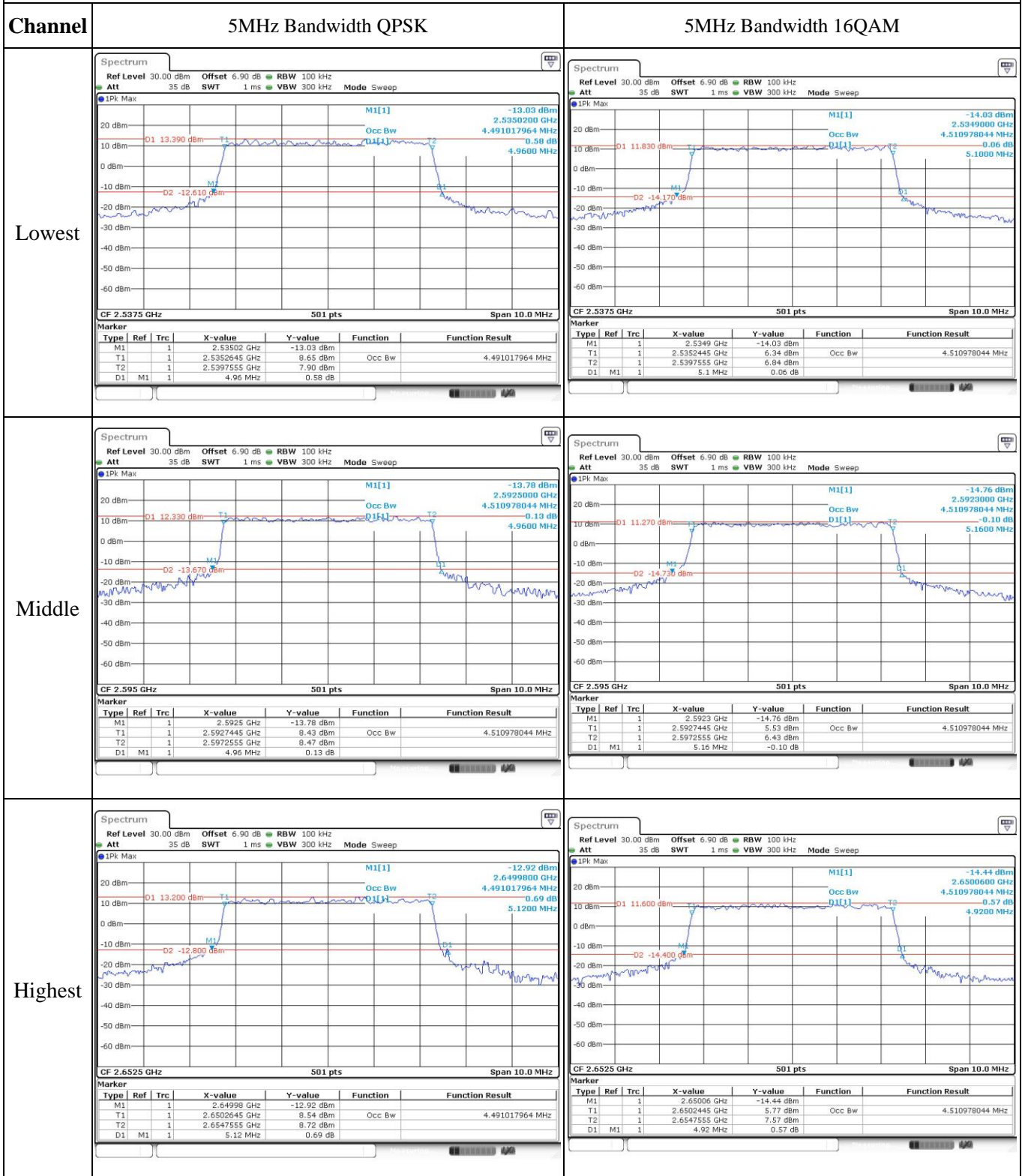
**FCC §2.1051, §27.53: Out of band emission, Band Edge****Result: Pass, Please refer to the test plots of Out of band emission, Band Edge.****FCC §2.1055, §27.54: Frequency Stability**

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2535.3555	2535.00	2654.7347	2655
	-20	3.85	2535.3503	2535.00	2654.7436	2655
	-10	3.85	2535.3588	2535.00	2654.7575	2655
	0	3.85	2535.3593	2535.00	2654.7479	2655
	10	3.85	2535.3554	2535.00	2654.7339	2655
	20	3.85	2535.3558	2535.00	2654.7322	2655
	30	3.85	2535.3598	2535.00	2654.7675	2655
	40	3.85	2535.3508	2535.00	2654.7578	2655
Frequency Stability vs. Voltage	50	3.85	2535.3506	2535.00	2654.7578	2655
	20	3.4	2535.3590	2535.00	2654.7314	2655
	20	4.4	2535.3592	2535.00	2654.7820	2655
					<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	3.85	2535.3551	2535.00	2654.7713	2655
	-20	3.85	2535.3574	2535.00	2654.7474	2655
	-10	3.85	2535.3566	2535.00	2654.7474	2655
	0	3.85	2535.3565	2535.00	2654.7183	2655
	10	3.85	2535.3563	2535.00	2654.7028	2655
	20	3.85	2535.3558	2535.00	2654.7022	2655
	30	3.85	2535.3507	2535.00	2654.7004	2655
	40	3.85	2535.3506	2535.00	2654.7728	2655
Frequency Stability vs. Voltage	50	3.85	2535.3579	2535.00	2654.7658	2655
	20	3.4	2535.3577	2535.00	2654.7230	2655
	20	4.4	2535.3590	2535.00	2654.7841	2655
					<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: the Insertion loss of the RF cable, Power Splitter and DC Block is 6.8dB, which was offset into the Spectrum Analyzer,except Occupied bandwidth added more 0.1dB with different test cable):

**Occupied Bandwidth**



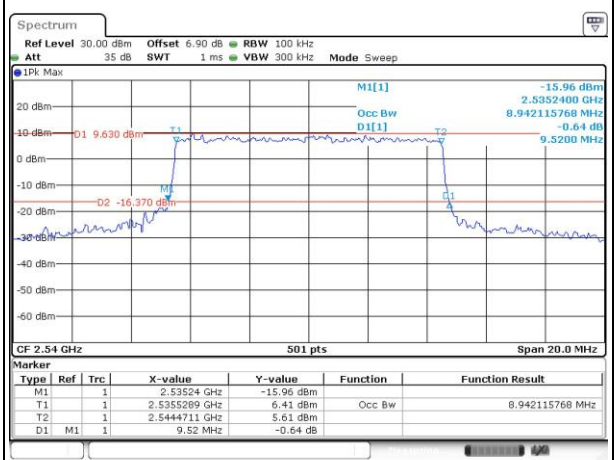
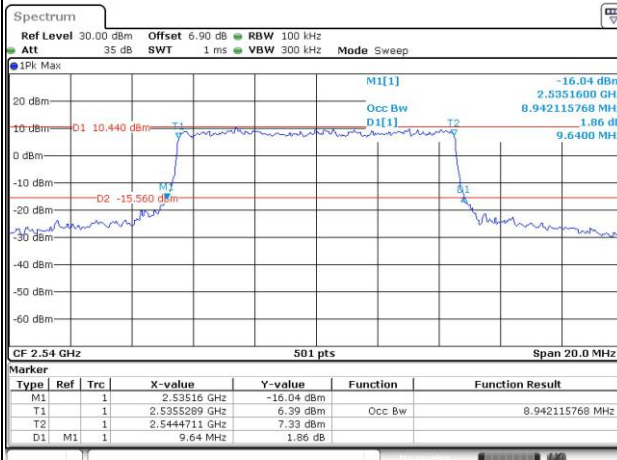
### Occupied Bandwidth

Channel

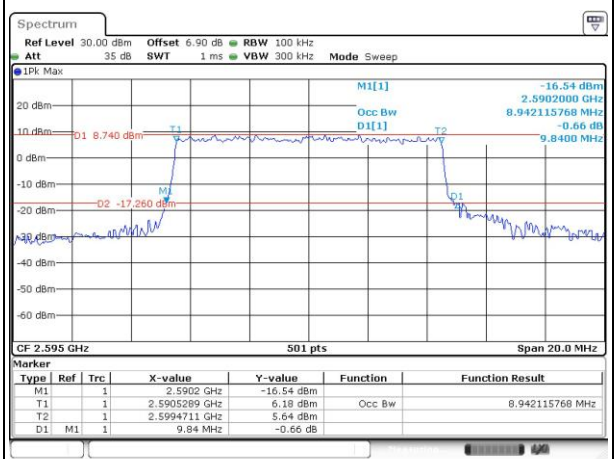
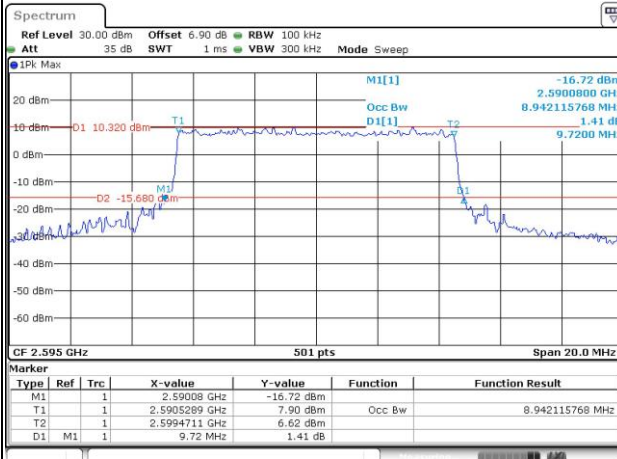
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

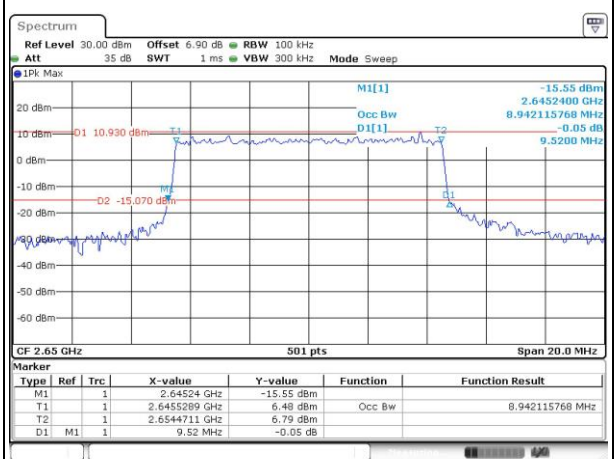
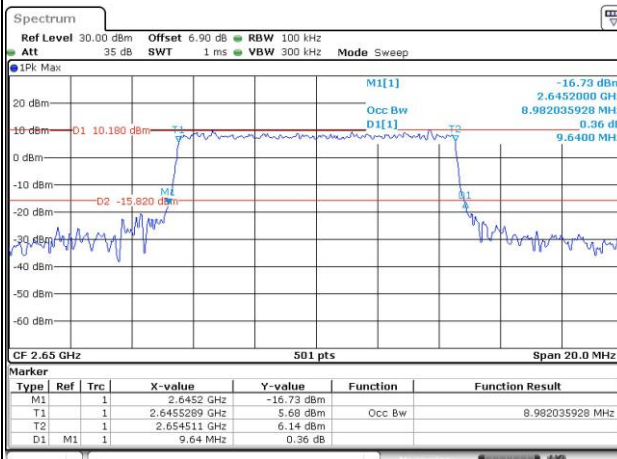
Lowest



Middle



Highest

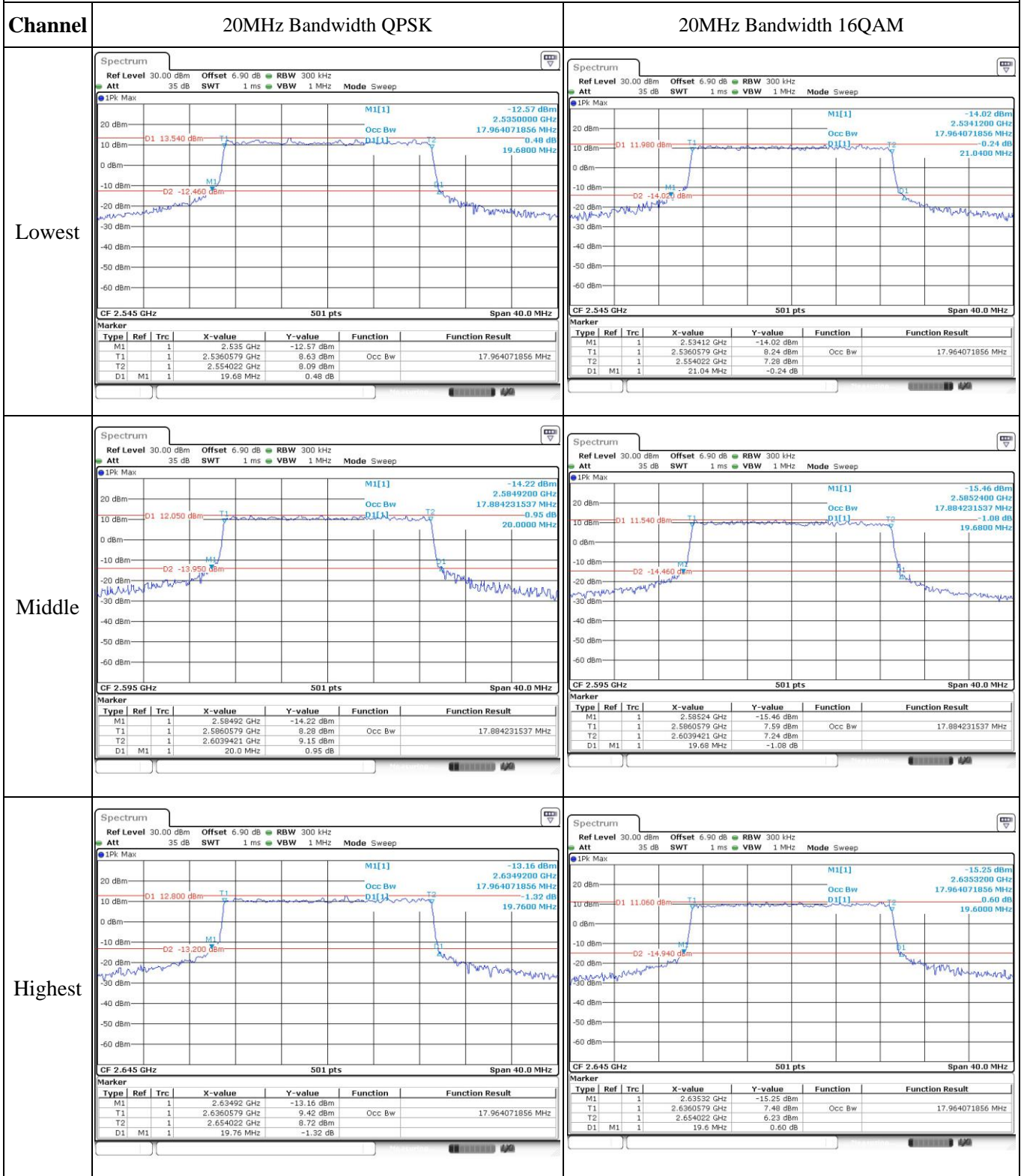


### Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM																																																																																
Lowest	<p>Ref Level 30.00 dBm Offset 6.90 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -13.32 dBm 2.5350000 GHz Occ Bw 13.473053892 MHz 15.5400 MHz</p> <p>D1 13.570 dBm D2 -12.430 dBm</p> <p>CF 2.5425 GHz 501 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td>2.535 GHz</td> <td>-13.32 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>2.5357934 GHz</td> <td>9.08 dBm</td> <td>Occ Bw</td> <td>13.473053892 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>2.5492665 GHz</td> <td>9.11 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td></td> <td></td> <td>15.54 MHz</td> <td>1.07 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.535 GHz	-13.32 dBm			T1	1			2.5357934 GHz	9.08 dBm	Occ Bw	13.473053892 MHz	T2	1			2.5492665 GHz	9.11 dBm			D1	M1			15.54 MHz	1.07 dB			<p>Ref Level 30.00 dBm Offset 6.90 dB RBW 300 kHz Att 35 dB SWT 1 ms VBW 1 MHz Mode Sweep</p> <p>1Pk Max</p> <p>M1[1] -13.14 dBm 2.5342200 GHz Occ Bw 13.592814371 MHz 16.0200 MHz</p> <p>D1 12.700 dBm D2 -13.300 dBm</p> <p>CF 2.5425 GHz 501 pts Span 30.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <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></td> <td>2.53422 GHz</td> <td>-13.14 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>2.5357335 GHz</td> <td>8.04 dBm</td> <td>Occ Bw</td> <td>13.592814371 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>2.5493263 GHz</td> <td>7.55 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td></td> <td></td> <td>16.02 MHz</td> <td>0.24 dB</td> <td></td> <td></td> </tr> </tbody> </table>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			2.53422 GHz	-13.14 dBm			T1	1			2.5357335 GHz	8.04 dBm	Occ Bw	13.592814371 MHz	T2	1			2.5493263 GHz	7.55 dBm			D1	M1			16.02 MHz	0.24 dB		
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### Occupied Bandwidth

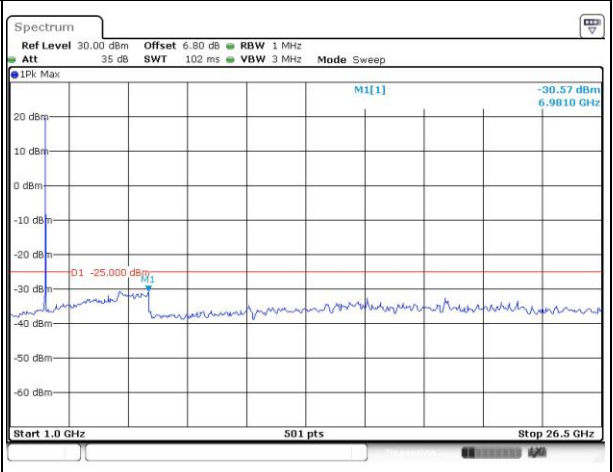
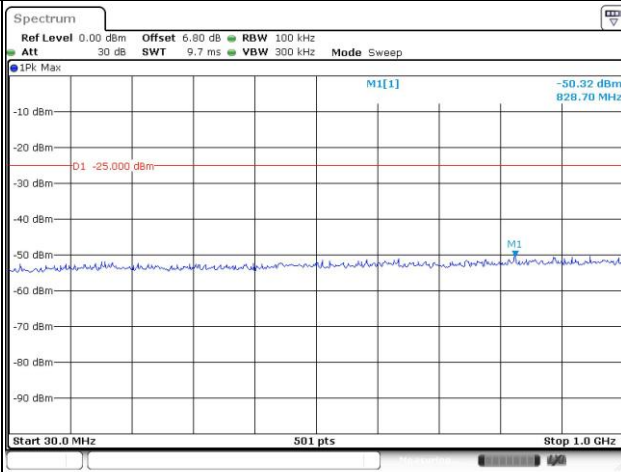


### Spurious Emissions at Antenna Terminal

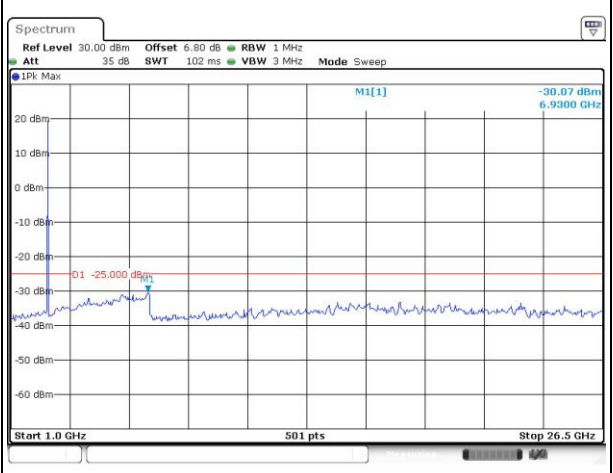
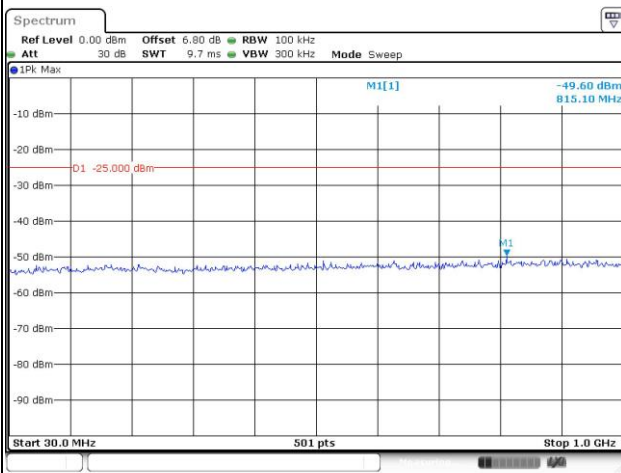
Channel

5MHz Bandwidth QPSK

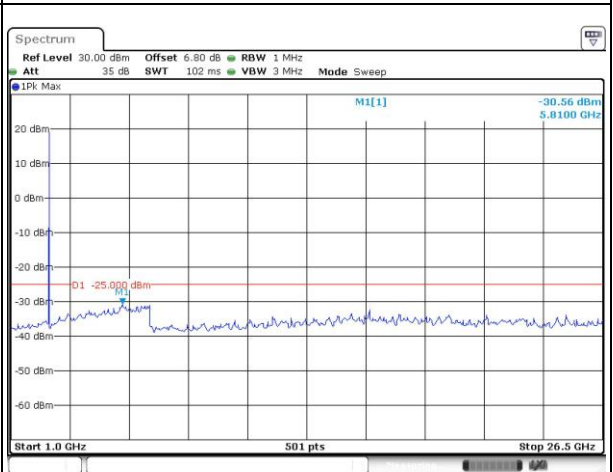
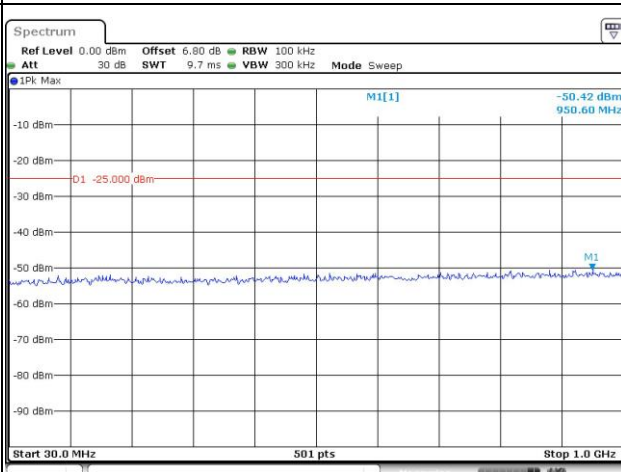
Lowest



Middle



Highest

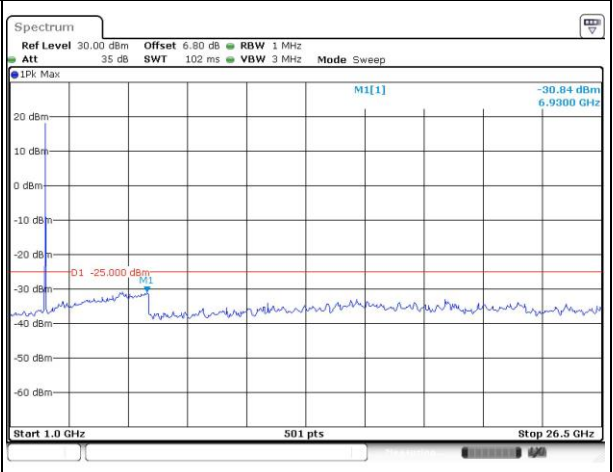
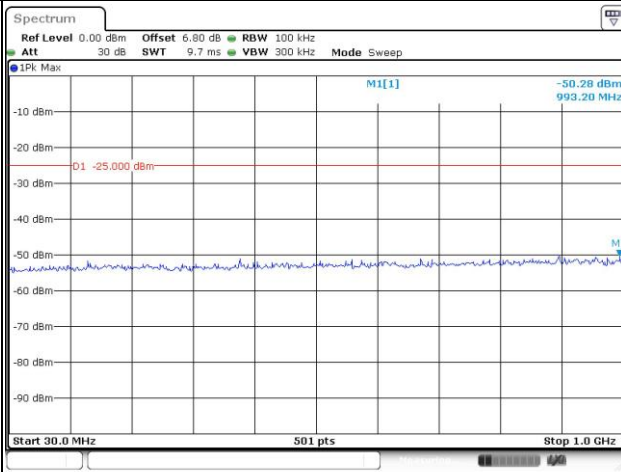


### Spurious Emissions at Antenna Terminal

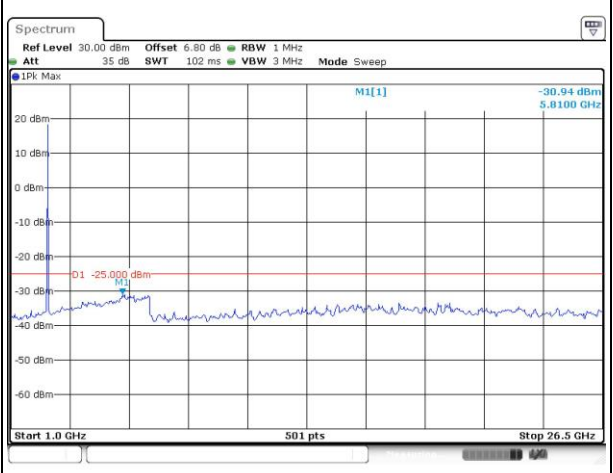
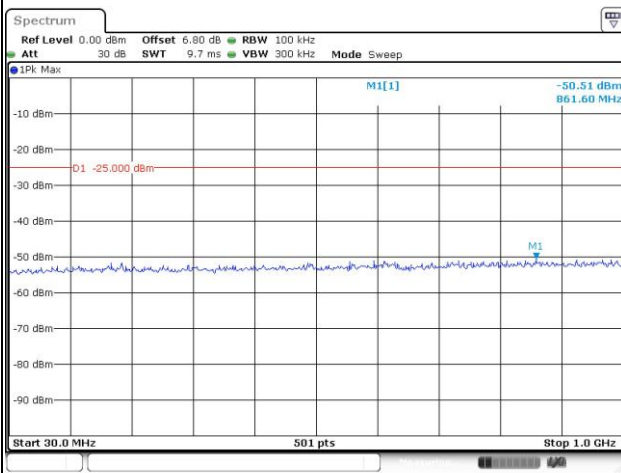
Channel

10MHz Bandwidth QPSK

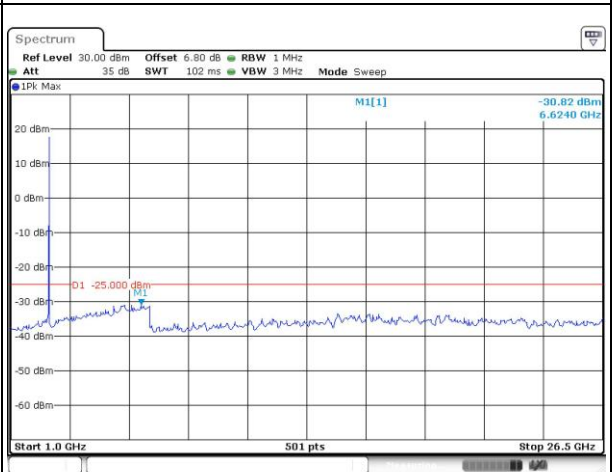
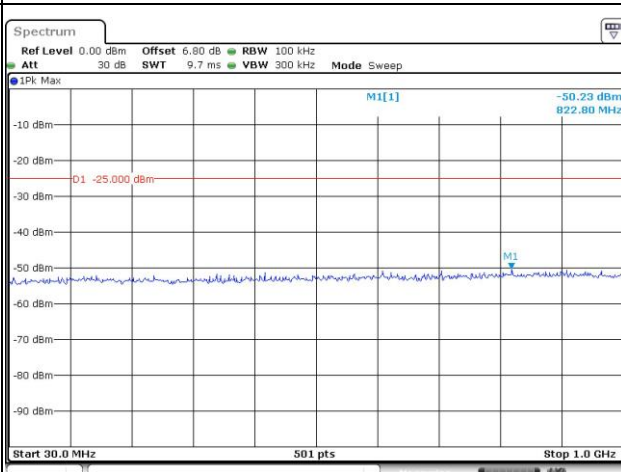
Lowest



Middle



Highest

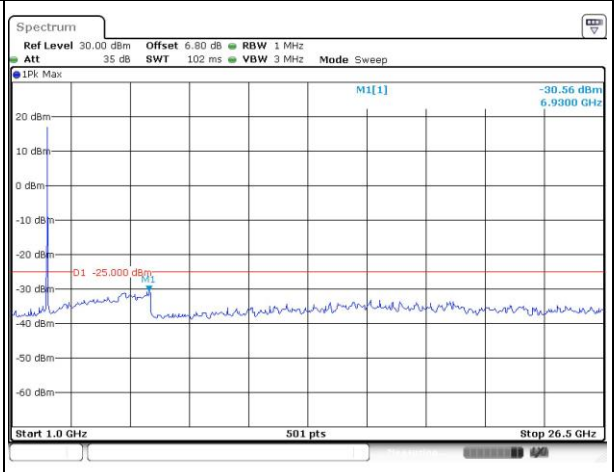
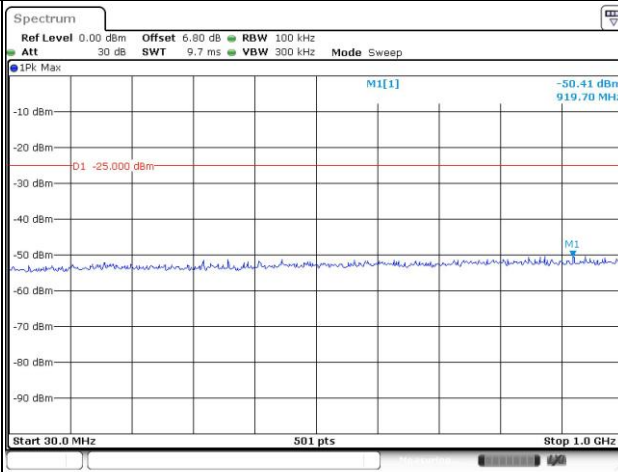


### Spurious Emissions at Antenna Terminal

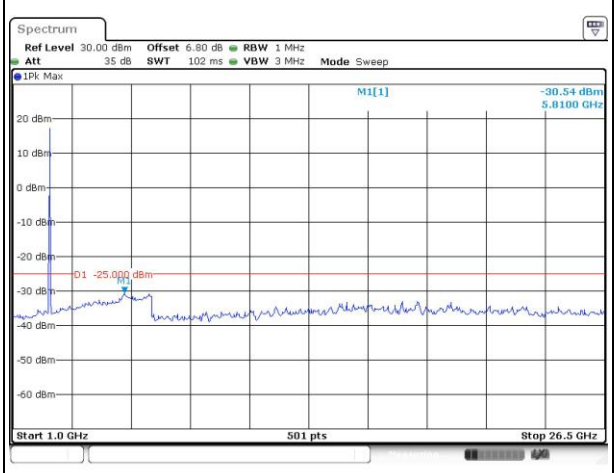
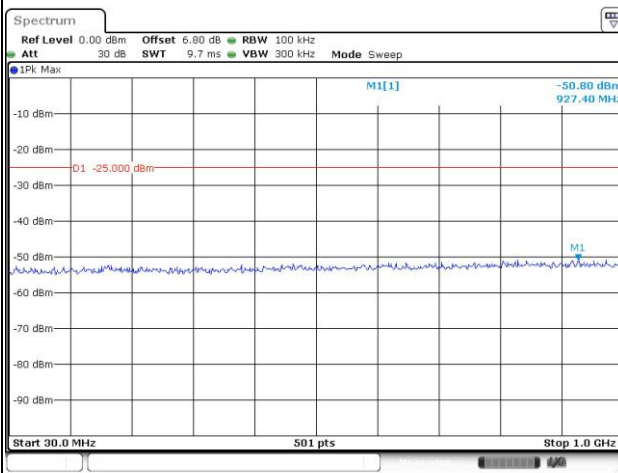
Channel

15MHz Bandwidth QPSK

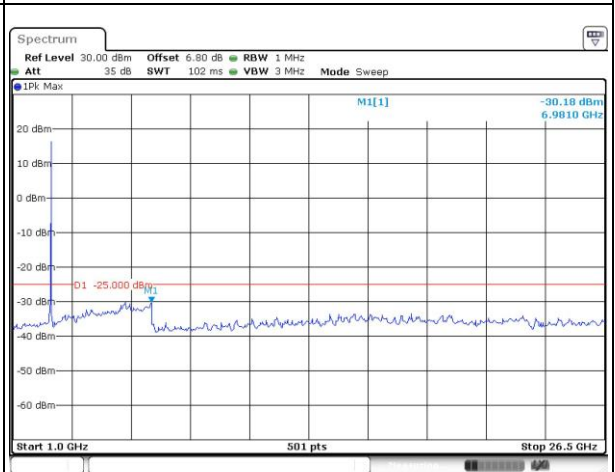
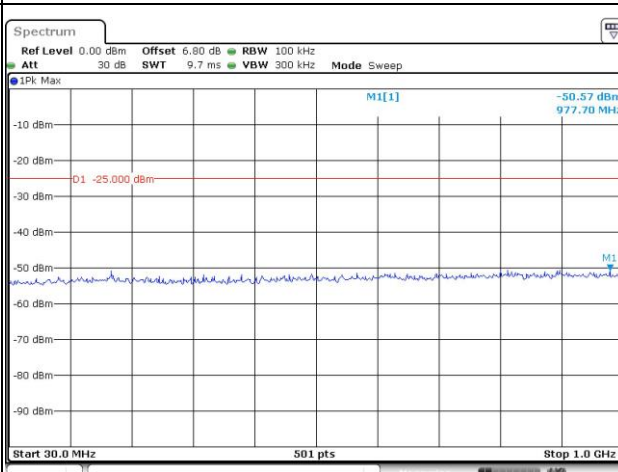
Lowest



Middle



Highest

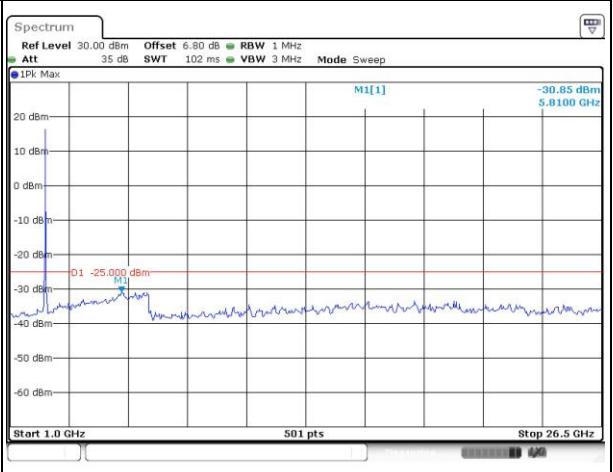
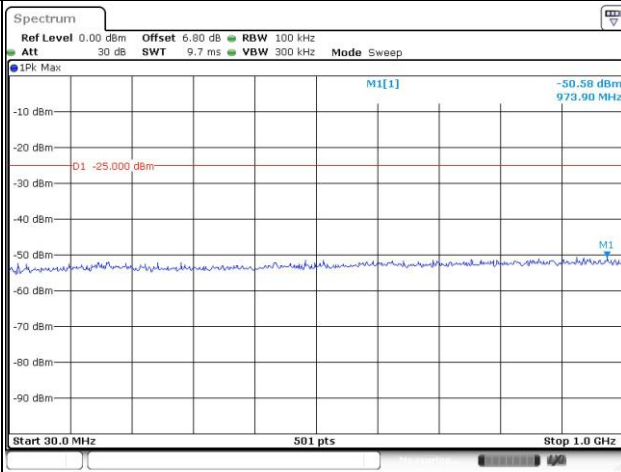


### Spurious Emissions at Antenna Terminal

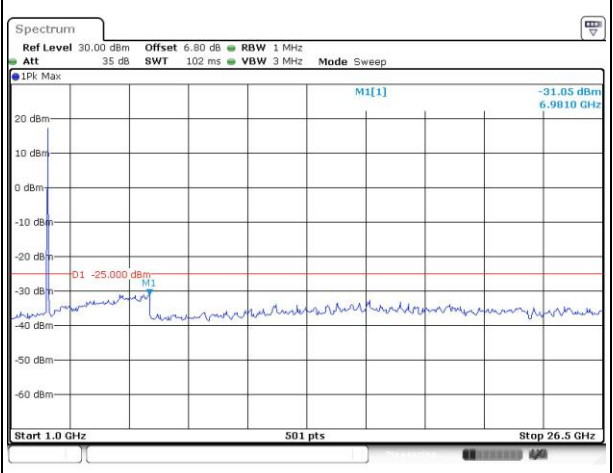
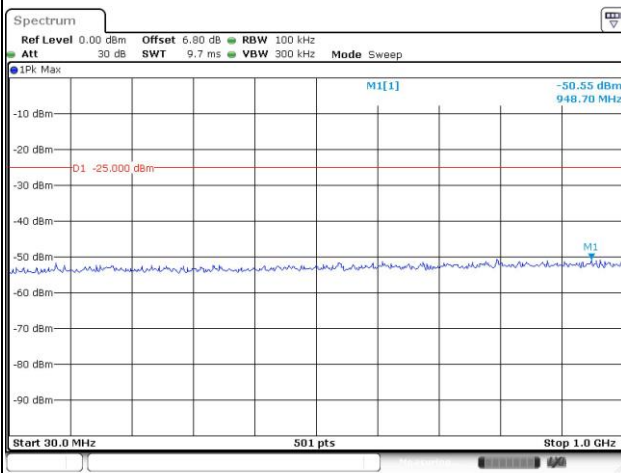
Channel

20MHz Bandwidth QPSK

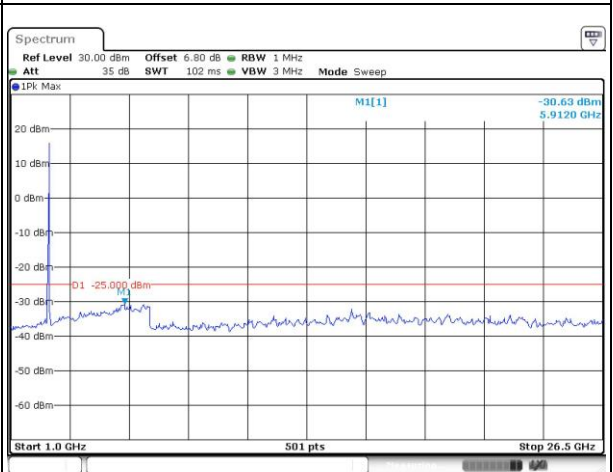
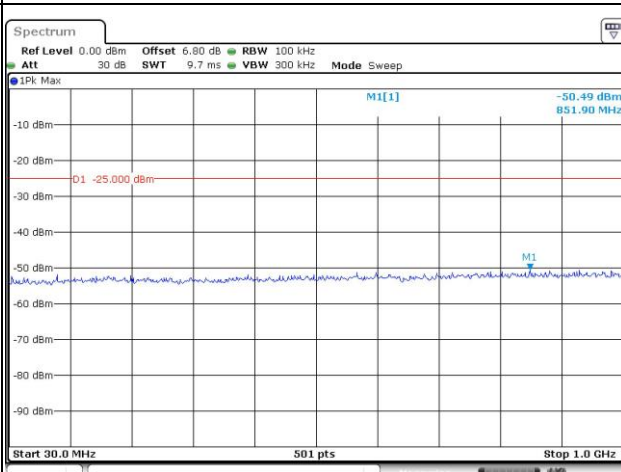
Lowest



Middle



Highest



Out of band emission, Band Edge

