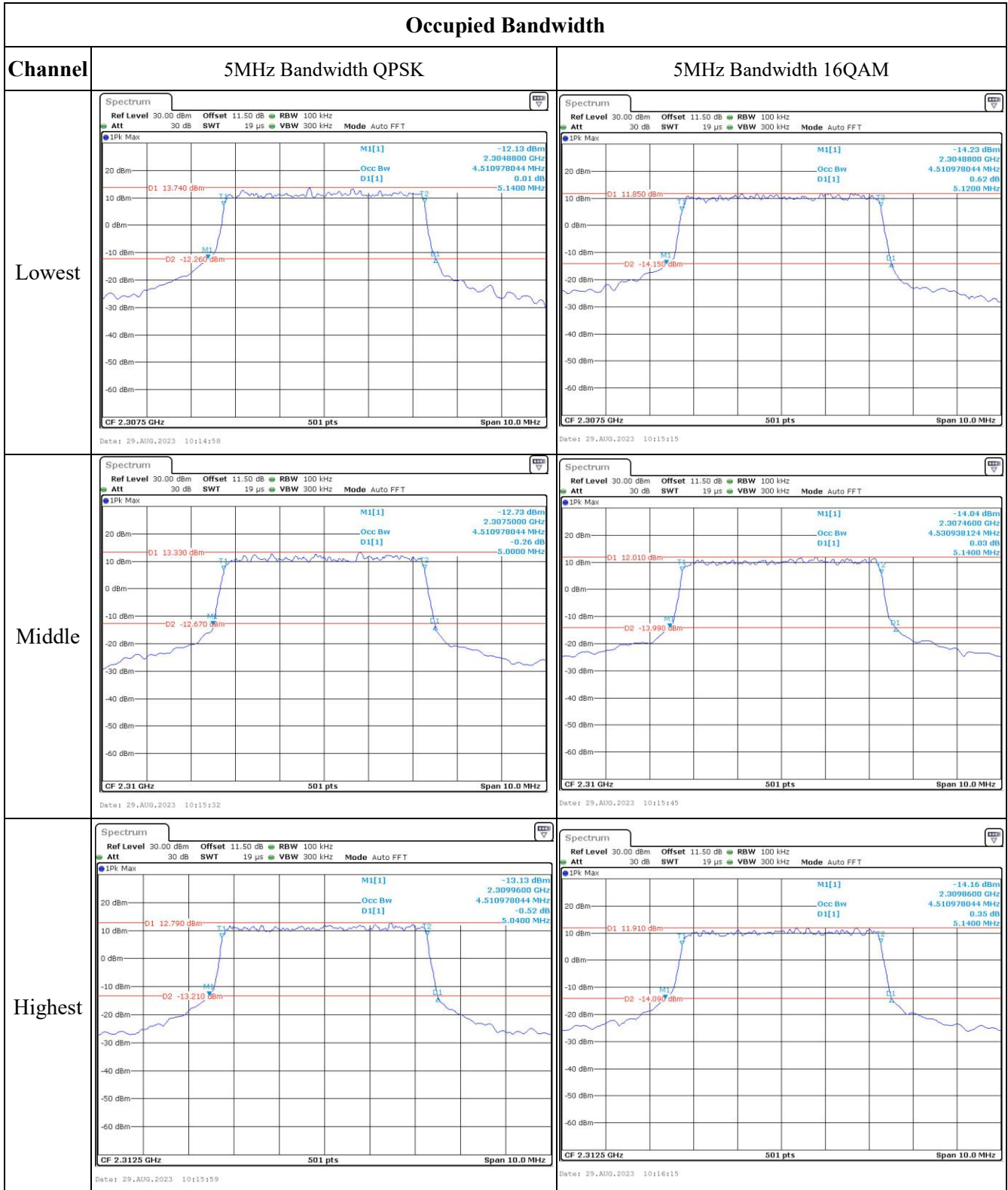


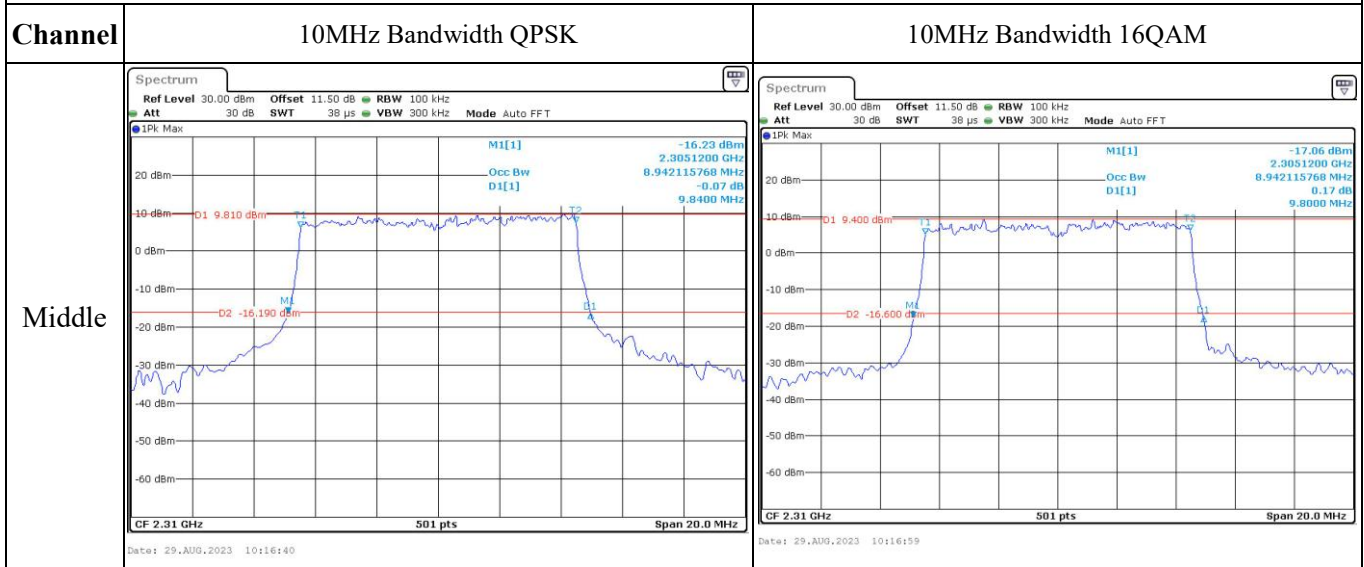
LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2350.229	2350.000	2359.129	2360.000
	-20	3.85	2350.972	2350.000	2359.087	2360.000
	-10	3.85	2350.748	2350.000	2359.489	2360.000
	0	3.85	2350.816	2350.000	2359.422	2360.000
	10	3.85	2350.915	2350.000	2359.643	2360.000
	20	3.85	2350.999	2350.000	2359.686	2360.000
	30	3.85	2350.010	2350.000	2359.890	2360.000
	40	3.85	2350.924	2350.000	2359.477	2360.000
	50	3.85	2350.117	2350.000	2359.899	2360.000
Frequency Stability vs. Voltage	20	3.35	2350.946	2350.000	2359.734	2360.000
	20	4.4	2350.444	2350.000	2359.151	2360.000
					Result:	Pass

Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2350.464	2350.000	2359.854	2360.000
	-20	3.85	2350.102	2350.000	2359.886	2360.000
	-10	3.85	2350.968	2350.000	2359.732	2360.000
	0	3.85	2350.695	2350.000	2359.840	2360.000
	10	3.85	2350.394	2350.000	2359.782	2360.000
	20	3.85	2350.899	2350.000	2359.901	2360.000
	30	3.85	2350.559	2350.000	2359.437	2360.000
	40	3.85	2350.911	2350.000	2359.803	2360.000
	50	3.85	2350.676	2350.000	2359.330	2360.000
Frequency Stability vs. Voltage	20	3.35	2350.922	2350.000	2359.739	2360.000
	20	4.4	2350.789	2350.000	2359.822	2360.000
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):
2305-2315 MHz:



Occupied Bandwidth

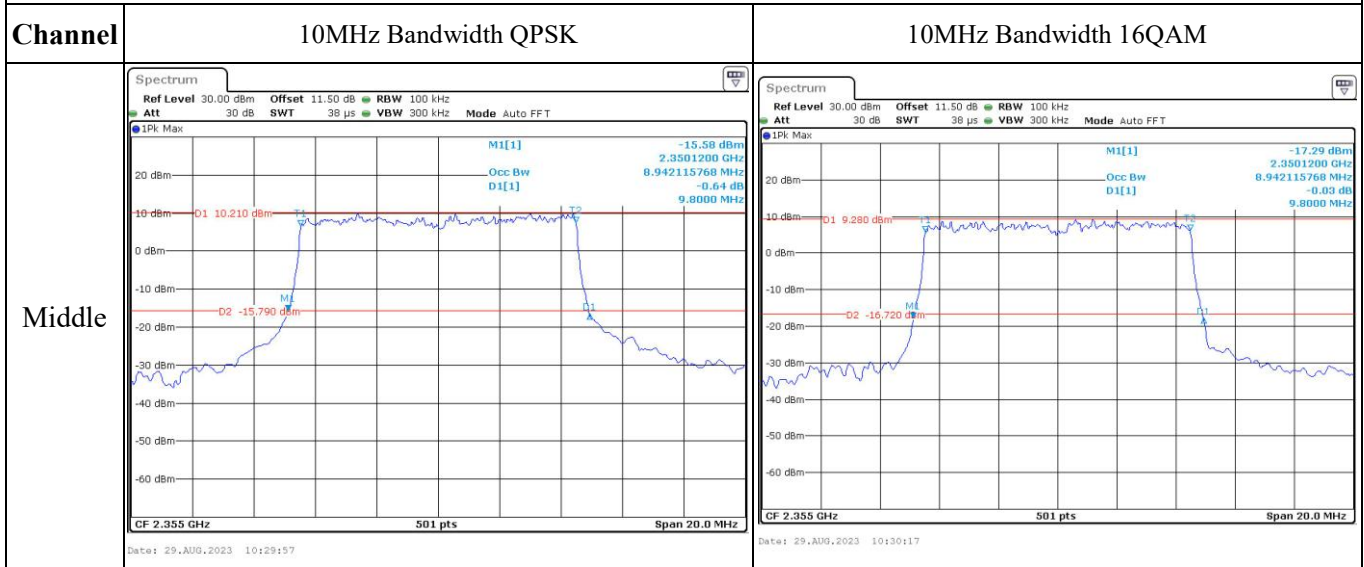


2350-2360 MHz:

Occupied Bandwidth

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

Occupied Bandwidth

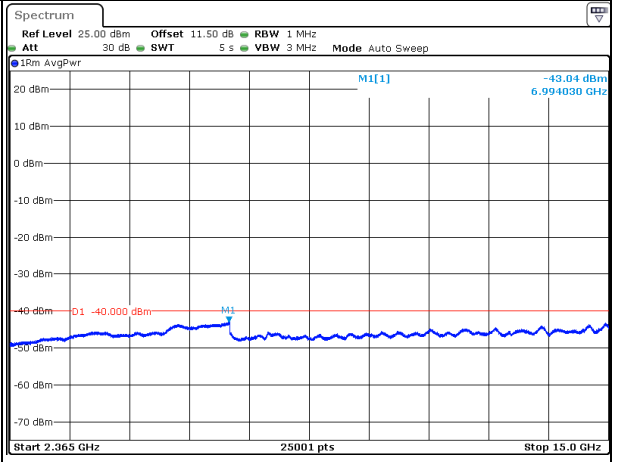
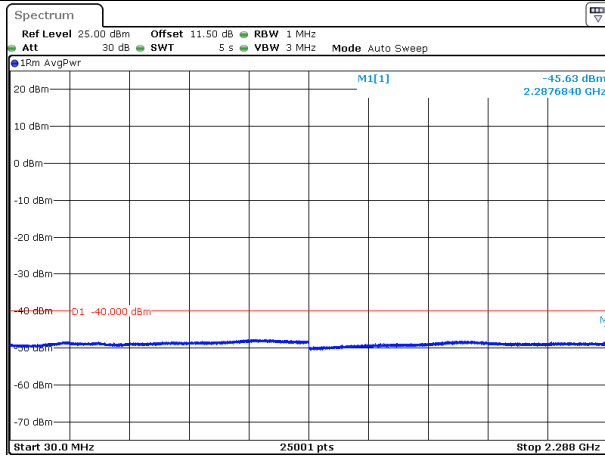


2305-2315 MHz:

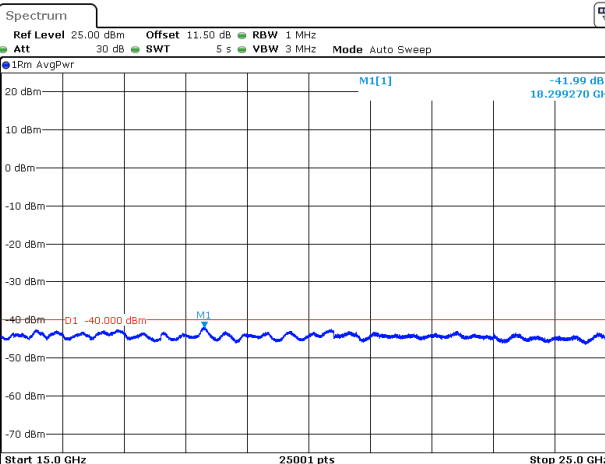
Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK



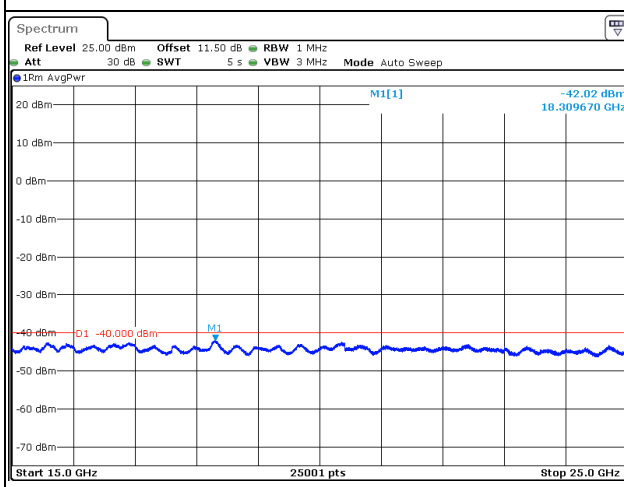
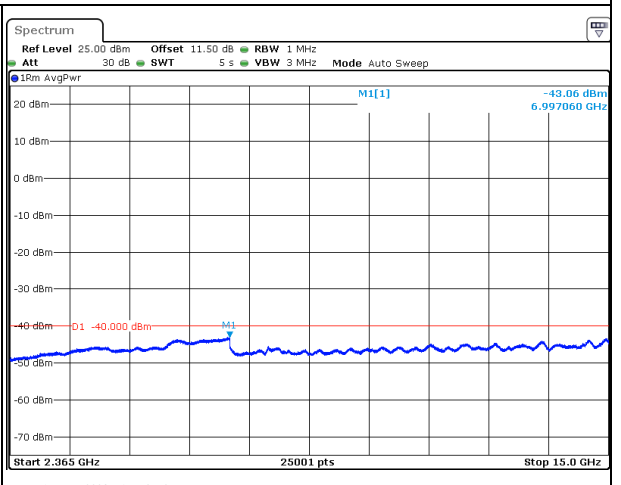
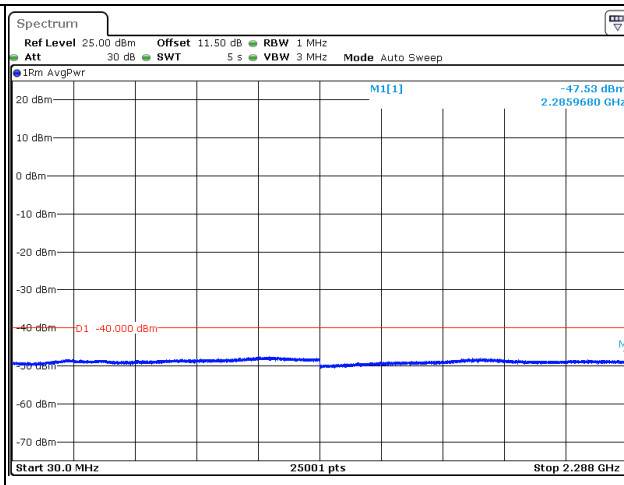
Lowest



Spurious Emissions at Antenna Terminal

5MHz Bandwidth QPSK

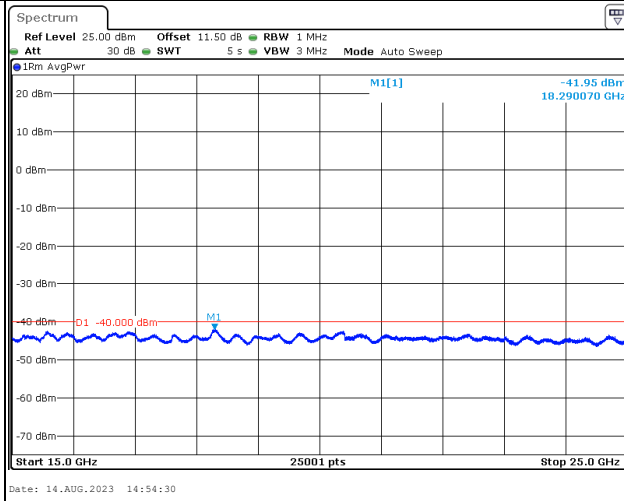
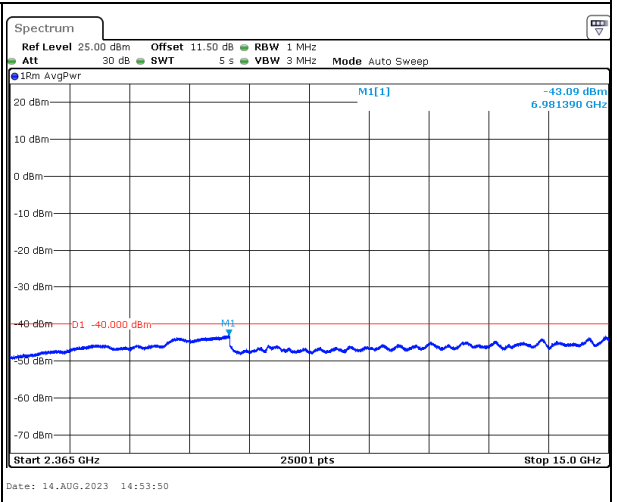
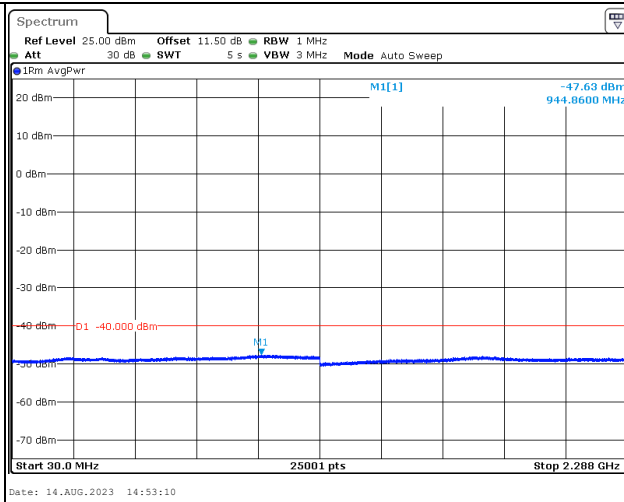
Middle



Spurious Emissions at Antenna Terminal

5MHz Bandwidth QPSK

Highest

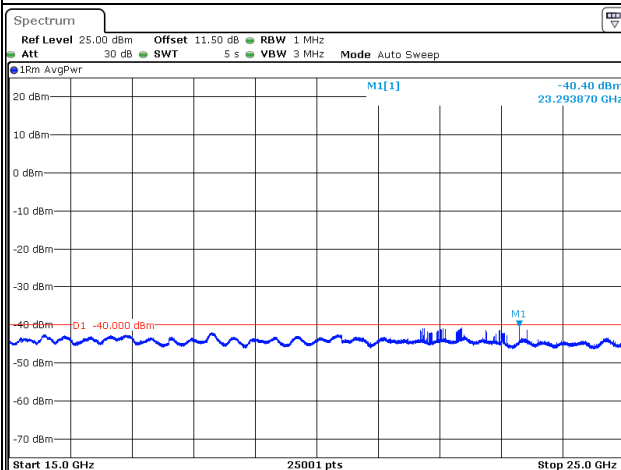
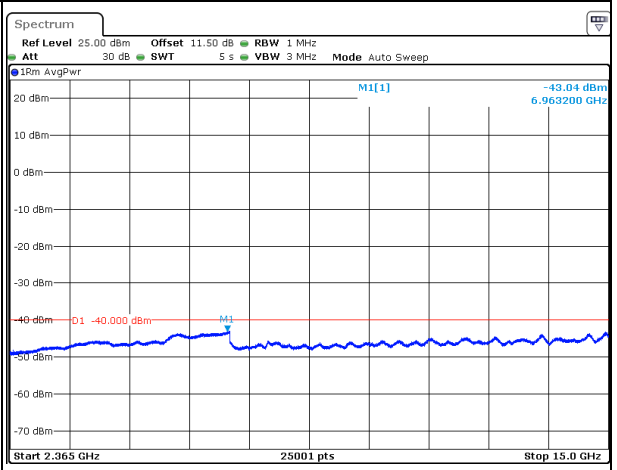
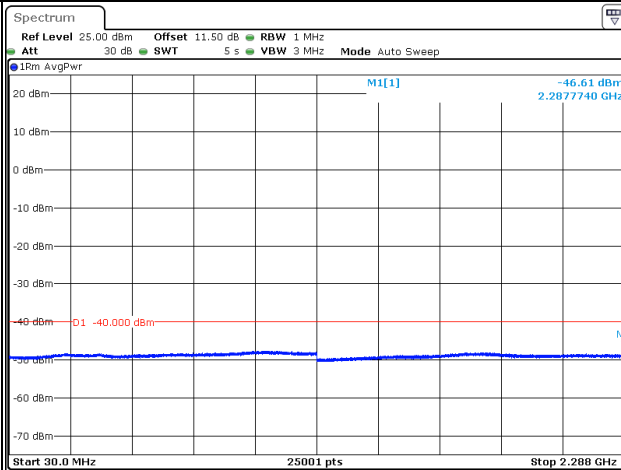


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

Middle



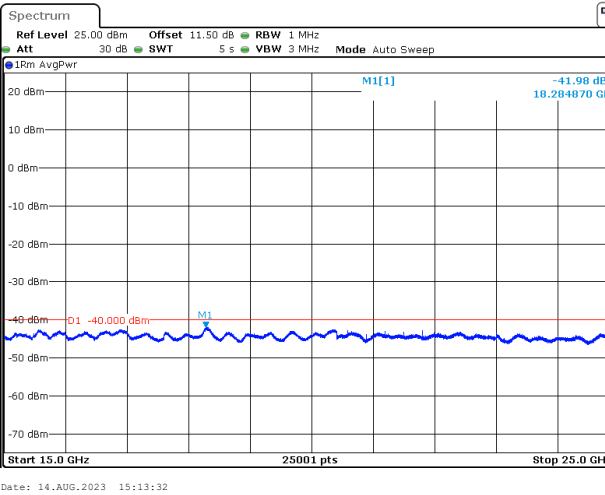
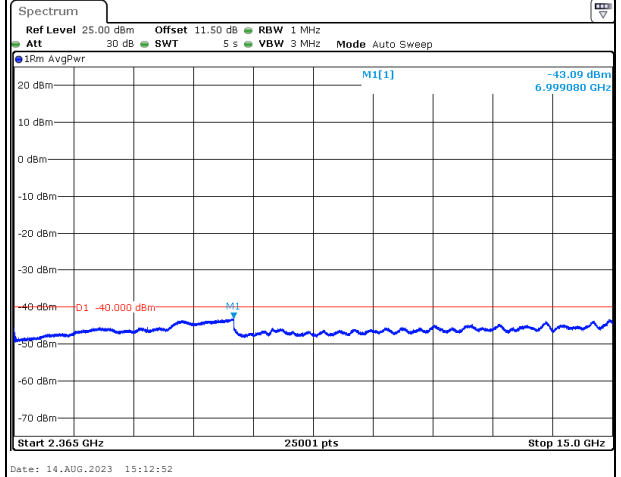
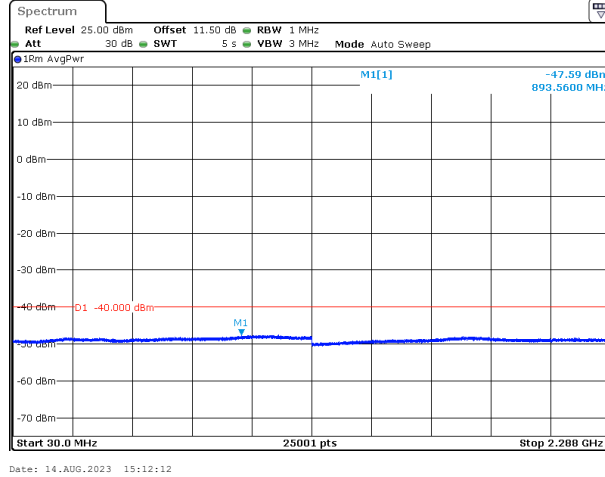
2350-2360 MHz:

Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

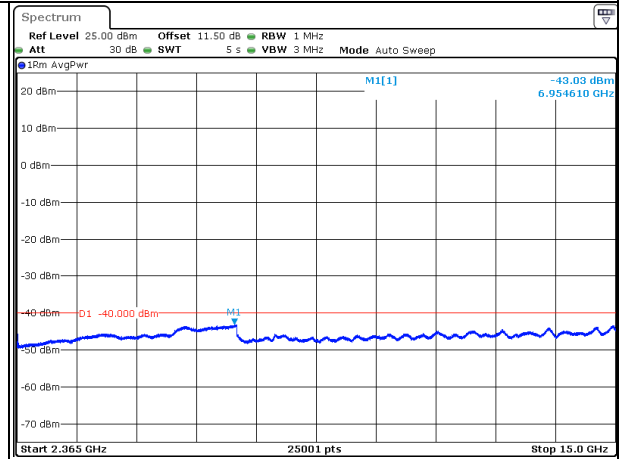
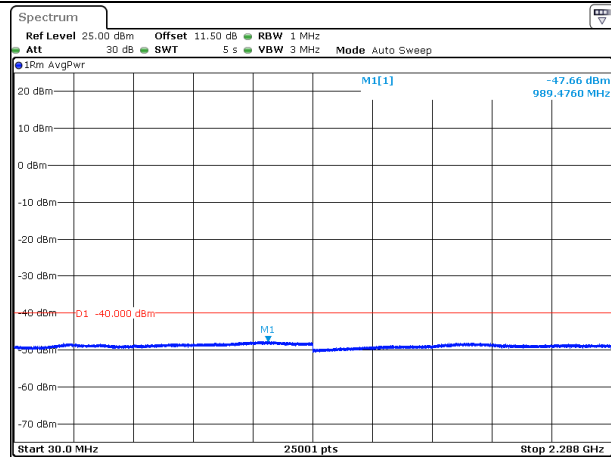
Lowest



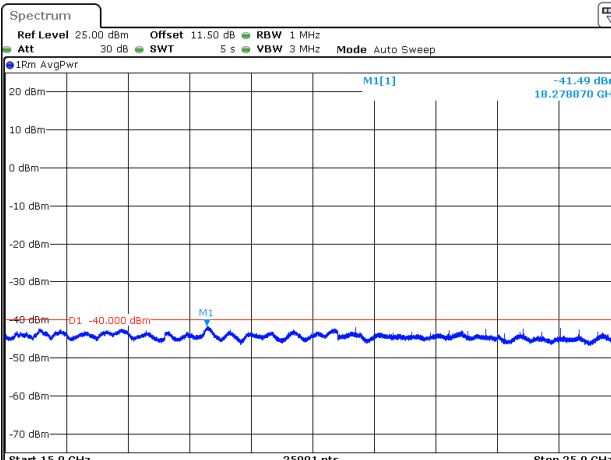
Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK



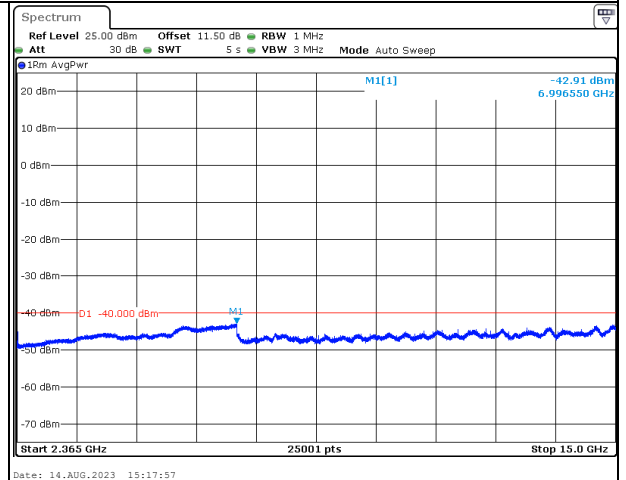
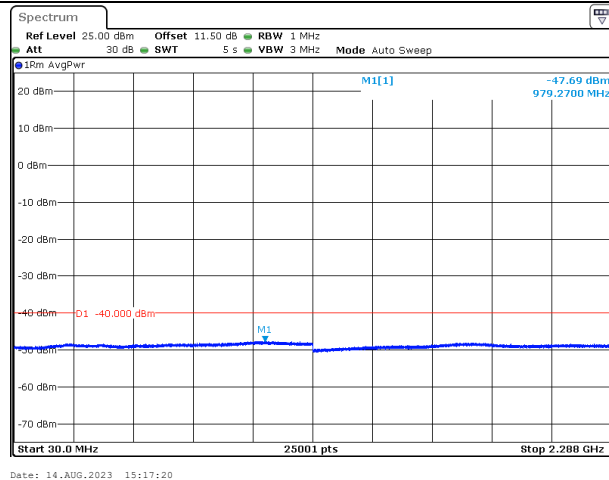
Middle



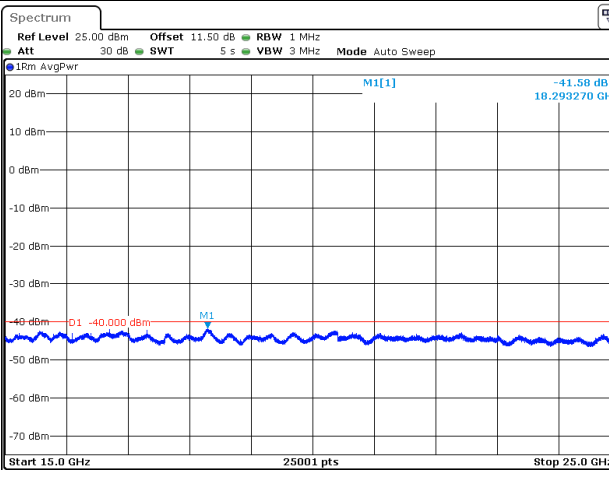
Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK



Highest

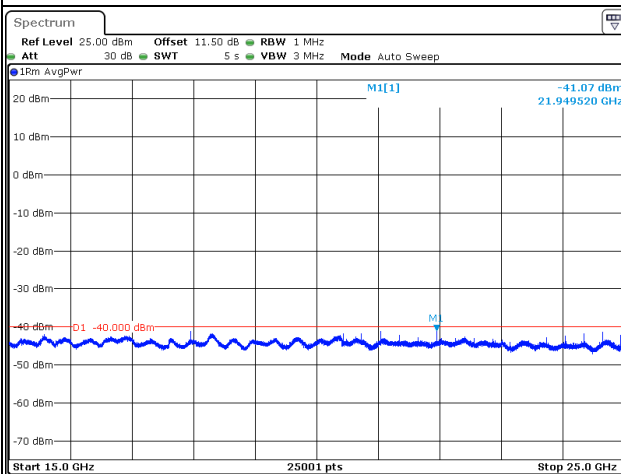
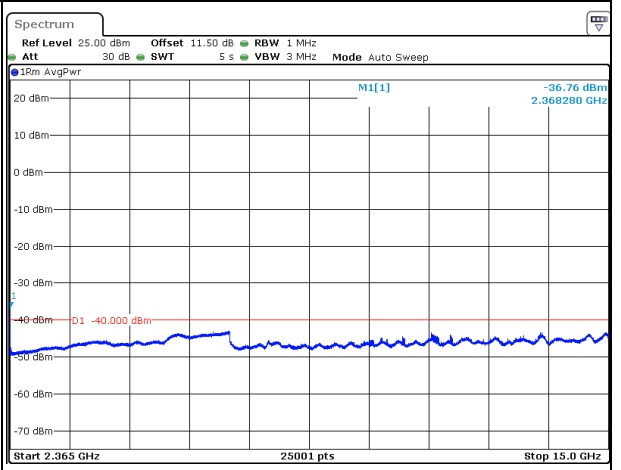
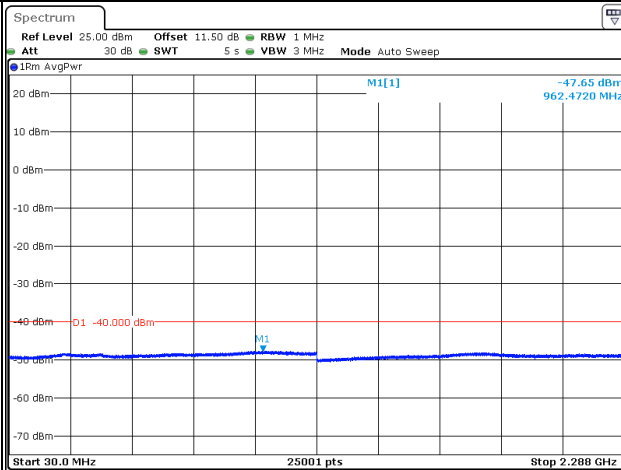


Spurious Emissions at Antenna Terminal

Channel

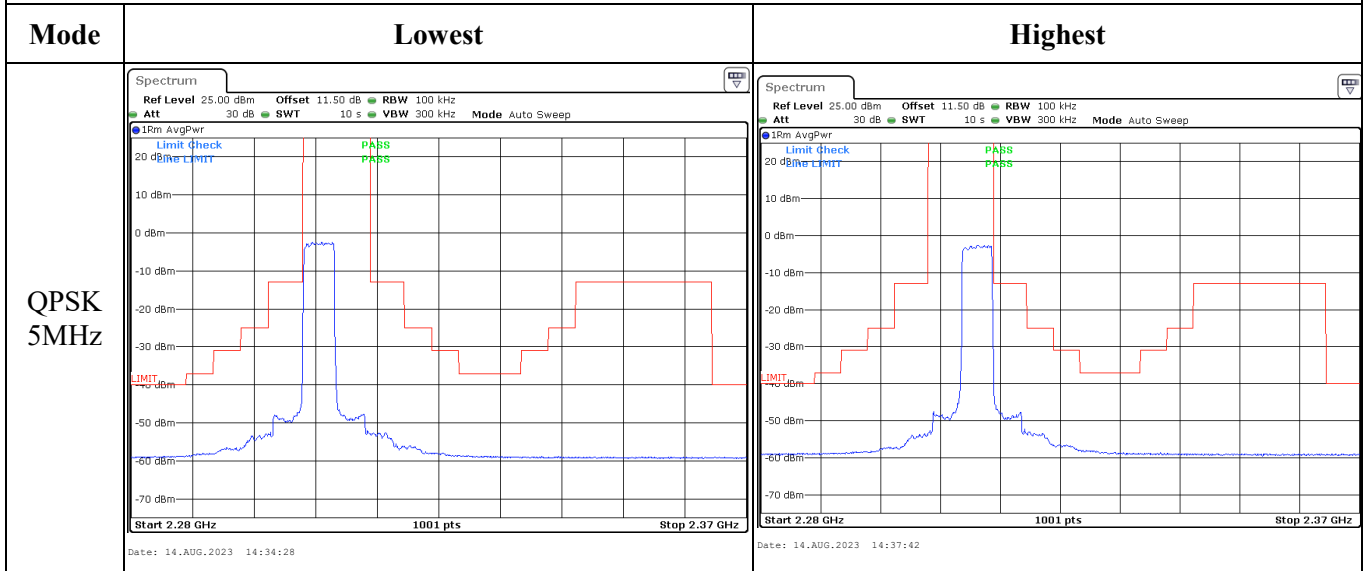
10MHz Bandwidth QPSK

Middle

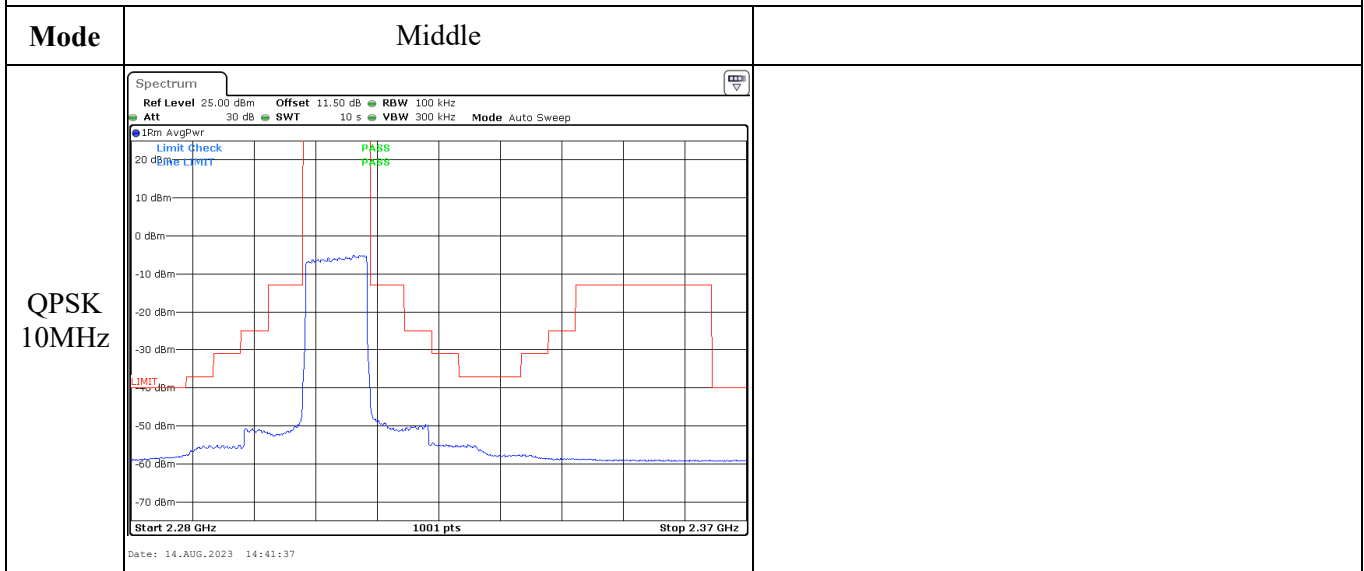


2305-2315 MHz:

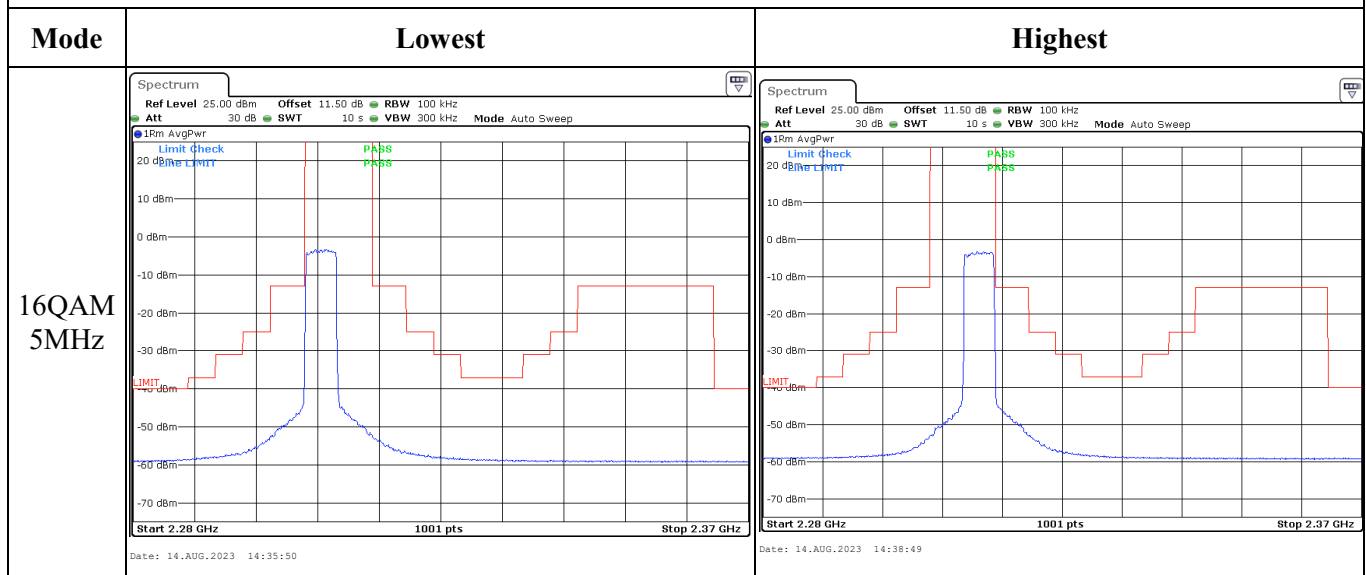
Out of band emission, Band Edge



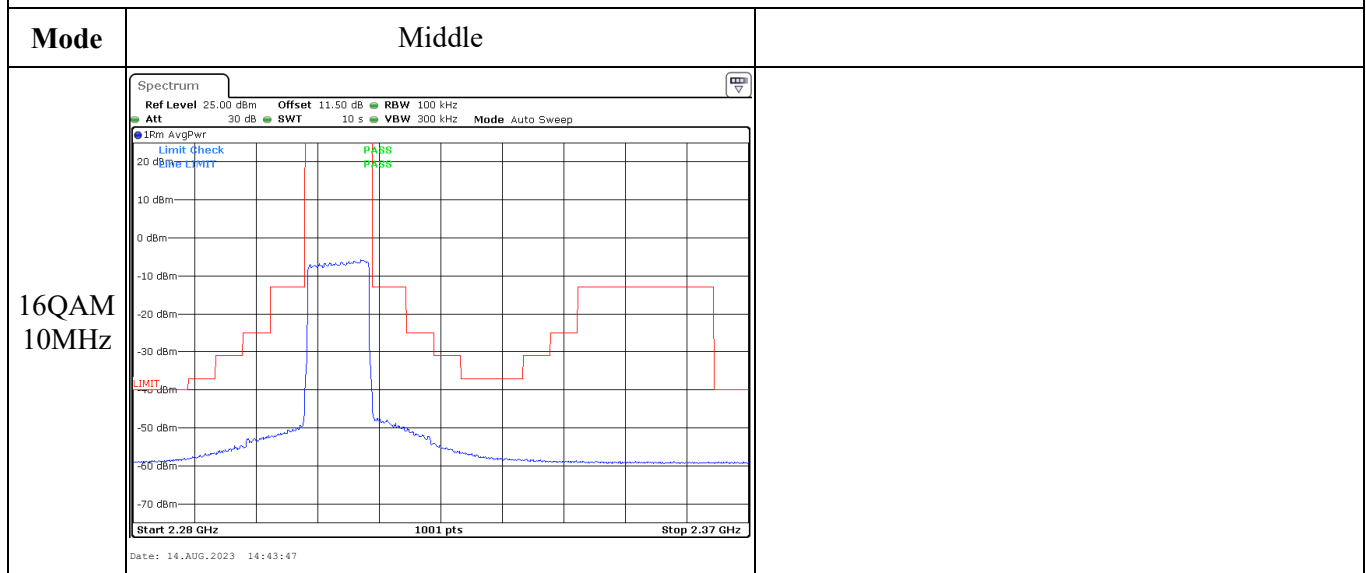
Out of band emission, Band Edge



Out of band emission, Band Edge

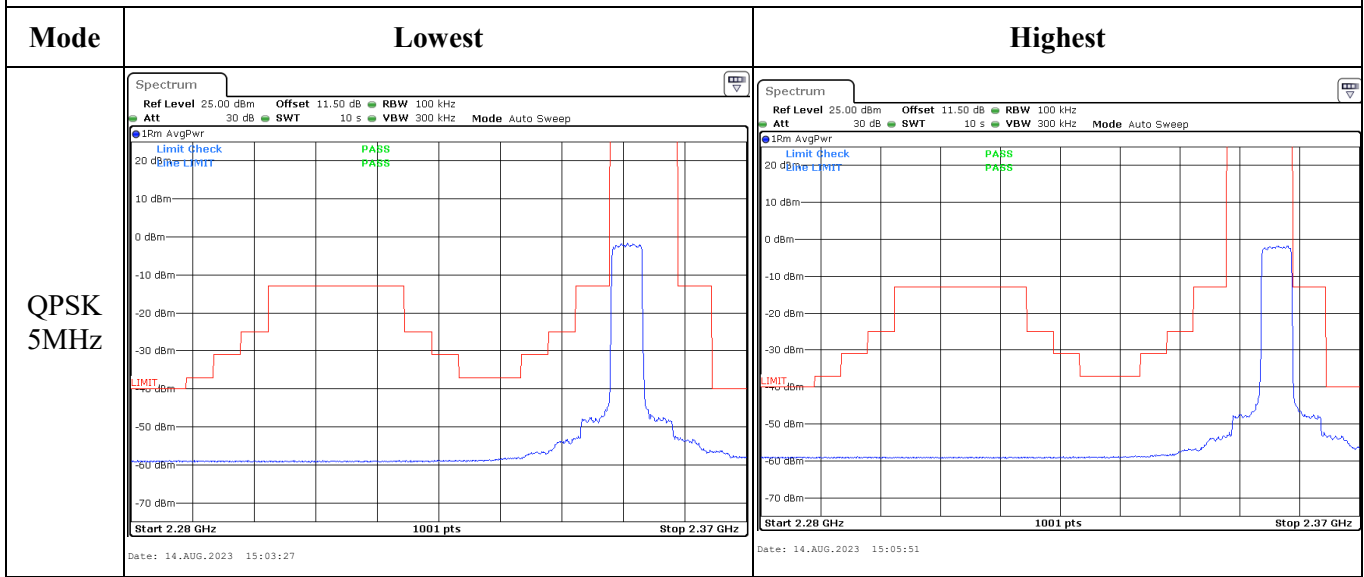


Out of band emission, Band Edge

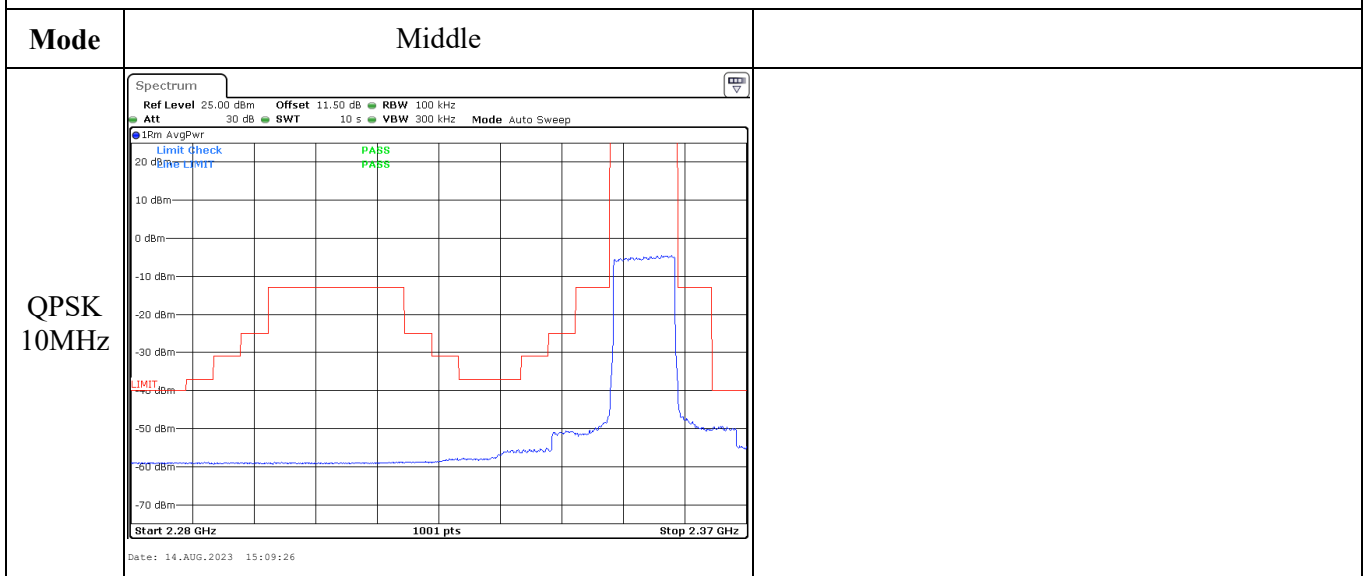


2350-2360 MHz:

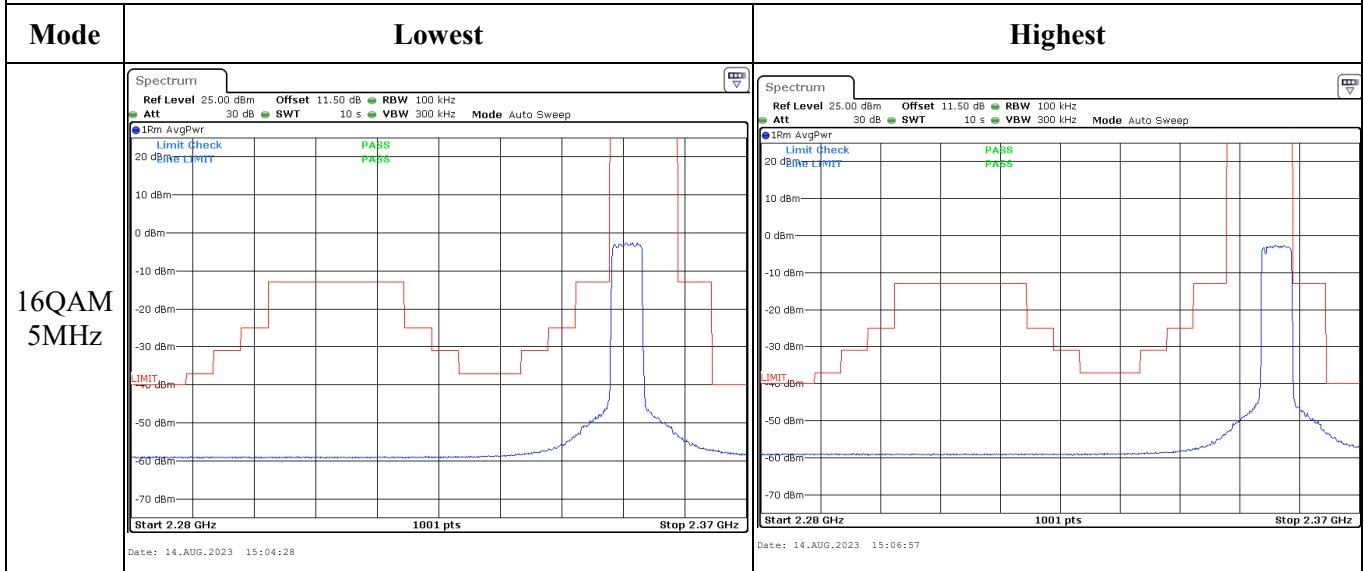
Out of band emission, Band Edge



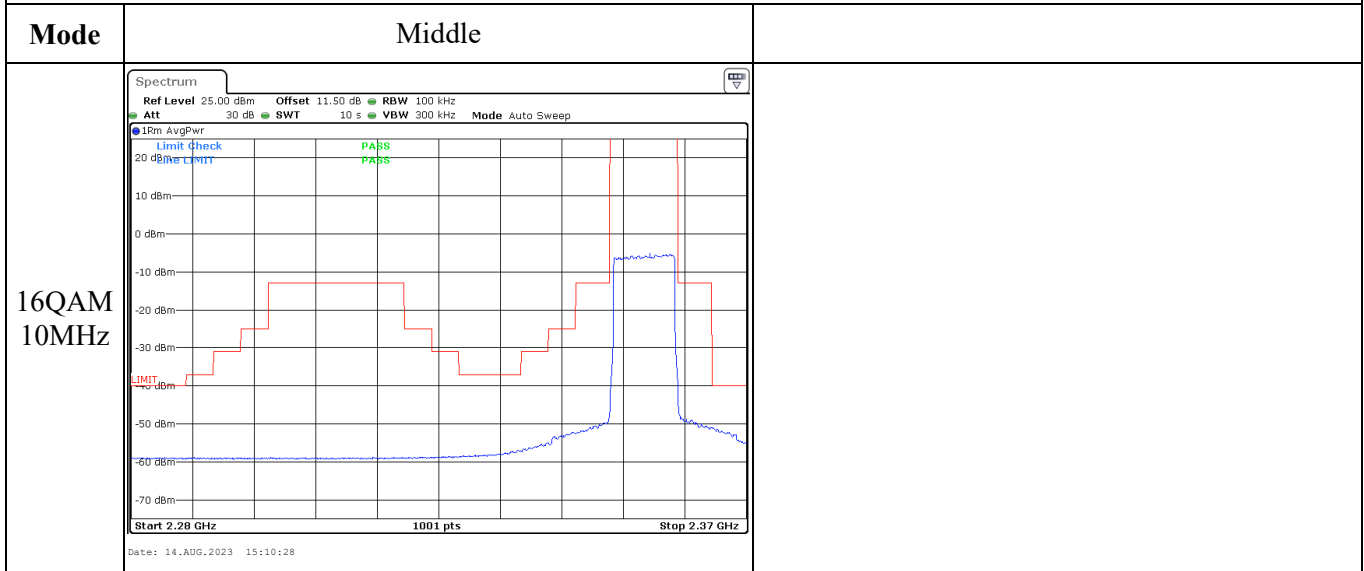
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.14 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2A4I-1	Test Date:	2023/8/13-2023/8/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Panda Sun	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3~25.6	Relative Humidity: (%)	64-68	ATM Pressure: (kPa)	101
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
R&S	Wideband Radio Communication Tester	CMW500	143458	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
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
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

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:

FCC§2.1046;§ 27.50(h)(2)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	19.49	19.44	19.75	19.55	33
	RB1#13	19.55	19.46	19.67		
	RB1#24	19.52	19.46	19.54		
	RB15#0	18.87	19.03	19.26		
	RB15#10	18.99	19.01	19.27		
	RB25#0	19.04	18.97	19.3		
5MHz 16QAM	RB1#0	18.44	18.72	18.6	18.57	33
	RB1#13	18.24	18.76	18.57		
	RB1#24	18.49	18.77	18.62		
	RB15#0	17.94	18.35	17.76		
	RB15#10	17.95	18.33	17.61		
	RB25#0	17.99	18.33	17.6		
10MHz QPSK	RB1#0	19.45	19.58	19.85	19.77	33
	RB1#25	19.46	19.56	19.97		
	RB1#49	19.48	19.72	19.88		
	RB25#0	19.12	19.06	19.35		
	RB25#25	18.99	19.12	19.23		
	RB50#0	19	18.99	19.28		
10MHz 16QAM	RB1#0	18.26	18.57	19.11	18.91	33
	RB1#25	18.24	18.66	19.09		
	RB1#49	18.23	18.65	19.05		
	RB25#0	17.06	17.16	18.06		
	RB25#25	17.23	17.39	17.95		
	RB50#0	17.14	17.28	17.98		
15MHz QPSK	RB1#0	19.46	19.47	19.95	19.75	33
	RB1#38	19.36	19.69	19.85		
	RB1#74	19.37	19.66	19.86		
	RB36#0	18.96	19.14	19.34		
	RB36#39	19.06	19.13	19.32		
	RB75#0	19.13	19.12	19.24		
15MHz 16QAM	RB1#0	17.78	18.56	19.07	18.87	33
	RB1#38	17.87	18.65	18.95		
	RB1#74	17.91	18.66	18.99		
	RB36#0	17.03	17.55	18.99		
	RB36#39	16.84	17.55	18.37		
	RB75#0	16.9	17.52	18.73		
20MHz QPSK	RB1#0	19.76	19.3	19.81	19.63	33

	RB1#50	19.68	19.51	19.83		
	RB1#99	19.61	19.55	19.78		
	RB50#0	18.99	19.03	19.31		
	RB50#50	19.1	19.14	19.37		
	RB100#0	19.01	19.14	19.23		
20MHz 16QAM	RB1#0	19.19	18.61	18.41	18.99	33
	RB1#50	19.06	18.69	18.34		
	RB1#99	18.97	18.87	18.31		
	RB50#0	18.4	17.73	18.39		
	RB50#50	18.1	17.7	17.56		
	RB100#0	18.22	17.71	17.95		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gt(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	9.16	9.39	9.01	13	
	RB100#0	9.01	9.07	9.16	13	
20MHz 16QAM	RB1#0	9.88	9.94	9.74	13	
	RB100#0	9.77	9.77	9.86	13	
					Result:	Pass

FCC §2.1049, §27.53:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.511	4.511	4.511	5.100	5.100	5.000
5MHz 16QAM	4.511	4.511	4.511	5.160	5.080	5.200
10MHz QPSK	8.942	8.982	8.942	9.760	9.760	9.840
10MHz 16QAM	8.942	8.942	8.942	9.800	9.720	9.760
15MHz QPSK	13.413	13.533	13.473	15.060	15.120	15.660
15MHz 16QAM	13.473	13.533	13.593	14.940	15.360	15.000
20MHz QPSK	17.964	18.044	17.964	20.080	19.520	20.080
20MHz 16QAM	17.884	18.044	17.964	19.440	19.760	19.840
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.

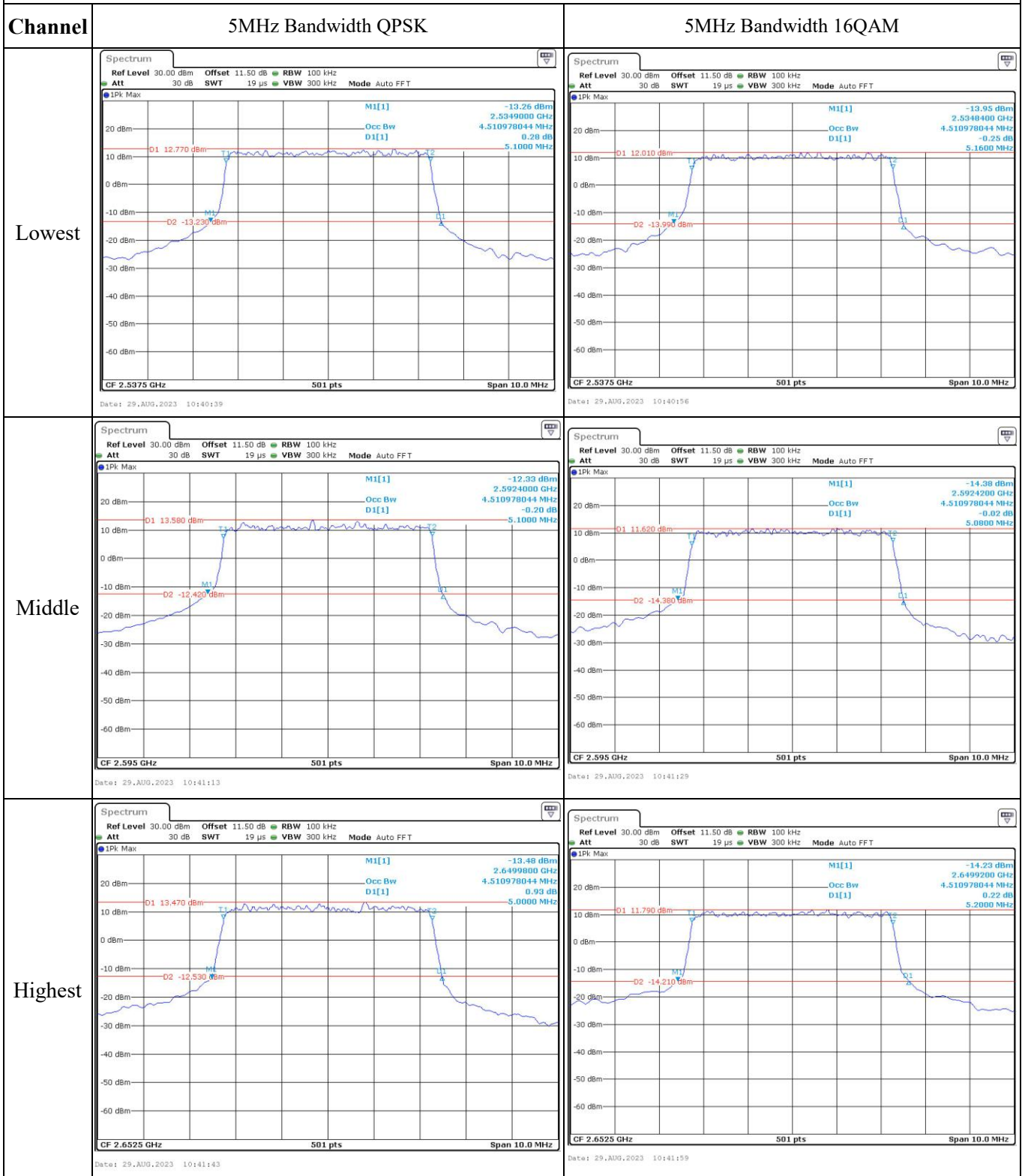
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.85	2535.220	2535.00	2654.918	2655
	-20	3.85	2535.275	2535.00	2654.931	2655
	-10	3.85	2535.237	2535.00	2654.965	2655
	0	3.85	2535.185	2535.00	2654.949	2655
	10	3.85	2535.117	2535.00	2654.917	2655
	20	3.85	2535.252	2535.00	2654.934	2655
	30	3.85	2535.117	2535.00	2654.919	2655
	40	3.85	2535.268	2535.00	2654.925	2655
Frequency Stability vs. Voltage	20	3.35	2535.123	2535.00	2654.966	2655
	20	4.4	2535.180	2535.00	2654.949	2655
					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	3.85	2535.239	2535.00	2654.925	2655
	-20	3.85	2535.261	2535.00	2654.927	2655
	-10	3.85	2535.239	2535.00	2654.918	2655
	0	3.85	2535.189	2535.00	2654.969	2655
	10	3.85	2535.123	2535.00	2654.965	2655
	20	3.85	2535.148	2535.00	2654.951	2655
	30	3.85	2535.218	2535.00	2654.961	2655
	40	3.85	2535.174	2535.00	2654.924	2655
Frequency Stability vs. Voltage	20	3.35	2535.128	2535.00	2654.966	2655
	20	4.4	2535.181	2535.00	2654.965	2655
					Result:	Pass

Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -16.11 dBm 2.5351200 GHz Occ Bw 8.942115768 MHz D1[1] -0.07 dB 9.7600 MHz</p> <p>D1 10.360 dBm D2 -15.640 dBm</p> <p>CF 2.54 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:42:17</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -16.77 dBm 2.5350800 GHz Occ Bw 8.942115768 MHz D1[1] 0.27 dB 9.8000 MHz</p> <p>D1 8.900 dBm D2 -17.100 dBm</p> <p>CF 2.54 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:43:16</p>
Middle	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -14.74 dBm 2.5901600 GHz Occ Bw 8.982035928 MHz D1[1] -1.29 dB 9.7600 MHz</p> <p>D1 10.250 dBm D2 -15.790 dBm</p> <p>CF 2.595 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:43:43</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -14.99 dBm 2.5901600 GHz Occ Bw 8.942115768 MHz D1[1] 0.39 dB 9.7200 MHz</p> <p>D1 10.710 dBm D2 -15.290 dBm</p> <p>CF 2.595 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:44:02</p>
Highest	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -16.54 dBm 2.6450800 GHz Occ Bw 8.942115768 MHz D1[1] 0.98 dB 9.8400 MHz</p> <p>D1 9.510 dBm D2 -16.490 dBm</p> <p>CF 2.65 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:44:19</p>	<p>Ref Level 30.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 38 μs VBW 300 kHz Mode Auto FFT</p> <p>M1[1] -15.59 dBm 2.6451200 GHz Occ Bw 8.942115768 MHz D1[1] -1.30 dB 9.7600 MHz</p> <p>D1 9.760 dBm D2 -16.240 dBm</p> <p>CF 2.65 GHz 501 pts Span 20.0 MHz</p> <p>Date: 29.AUG.2023 10:44:42</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>CF 2.5425 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:45:18</p>	<p>CF 2.5425 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:46:03</p>
Middle	<p>CF 2.595 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:46:26</p>	<p>CF 2.595 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:46:41</p>
Highest	<p>CF 2.6475 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:47:13</p>	<p>CF 2.6475 GHz 501 pts Span 30.0 MHz</p> <p>Date: 29.AUG.2023 10:47:34</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

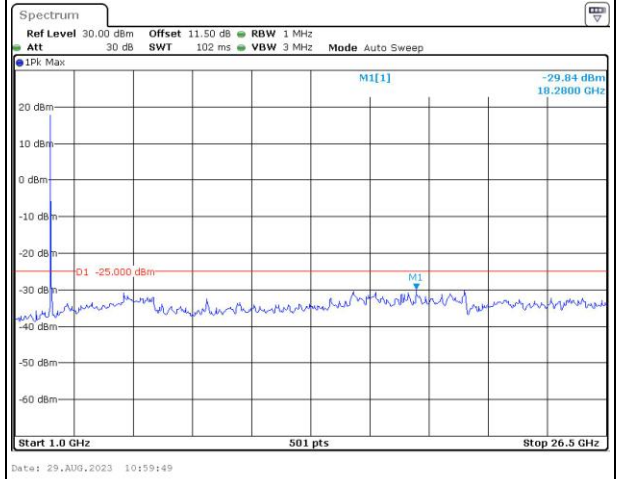
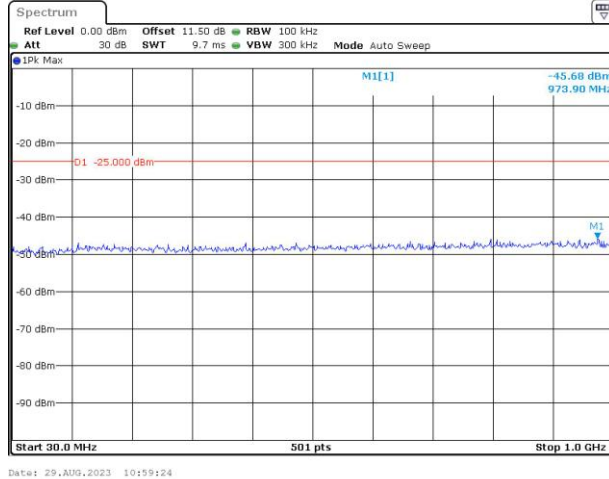
Channel	5MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max M1[1] -45.81 dBm 942.90 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 29.AUG.2023 10:56:13</p>	<p>Spectrum Ref Level 30.00 dBm Offset 11.50 dB RBW 1 MHz Att 30 dB SWT 102 ms VBW 3 MHz Mode Auto Sweep IPk Max M1[1] -30.51 dBm 17.9750 GHz -25.000 dBm Start 1.0 GHz 501 pts Stop 26.5 GHz Date: 29.AUG.2023 10:56:35</p>
	Middle	<p>Spectrum Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max M1[1] -44.85 dBm 937.10 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 29.AUG.2023 10:57:06</p>
Highest		<p>Spectrum Ref Level 0.00 dBm Offset 11.50 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep IPk Max M1[1] -45.94 dBm 975.80 MHz -25.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 29.AUG.2023 10:57:59</p>

Spurious Emissions at Antenna Terminal

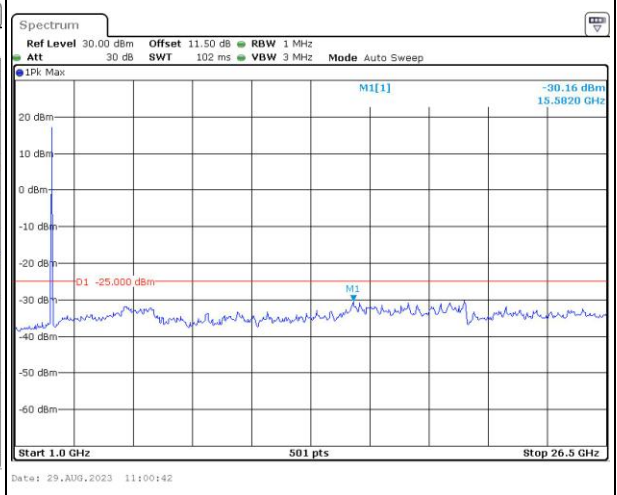
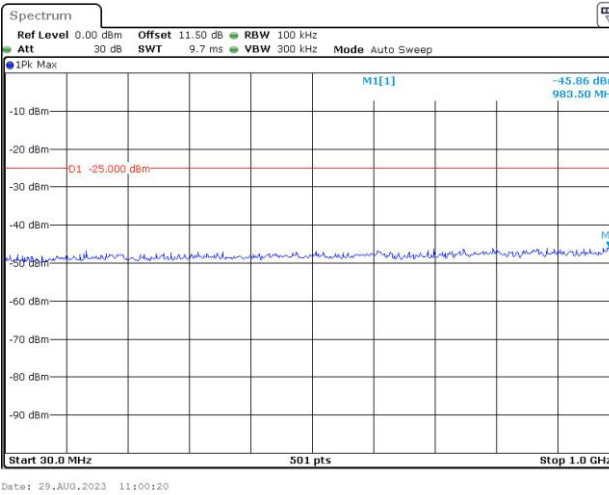
Channel

10MHz Bandwidth QPSK

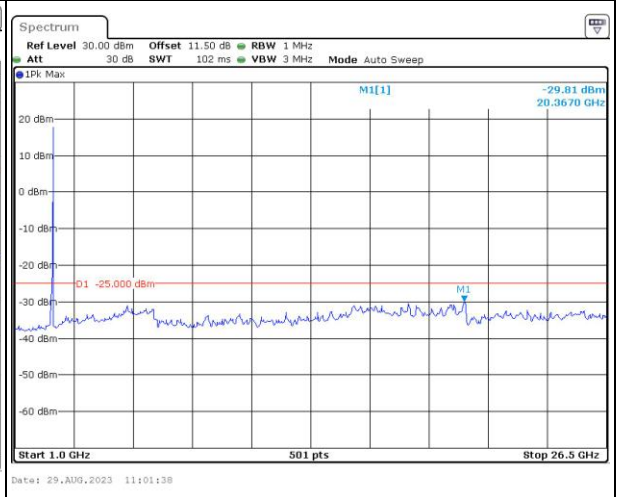
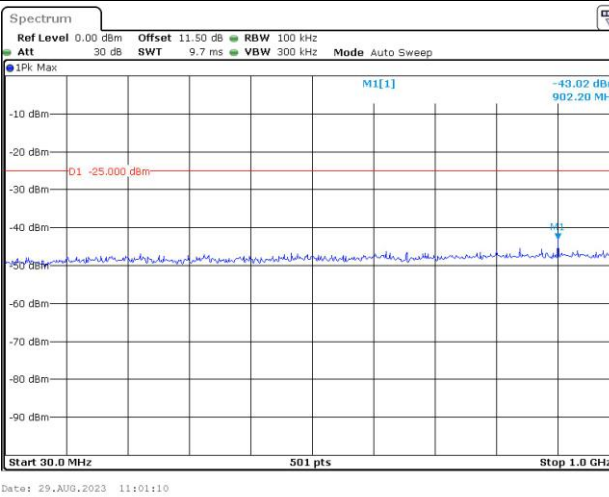
Lowest



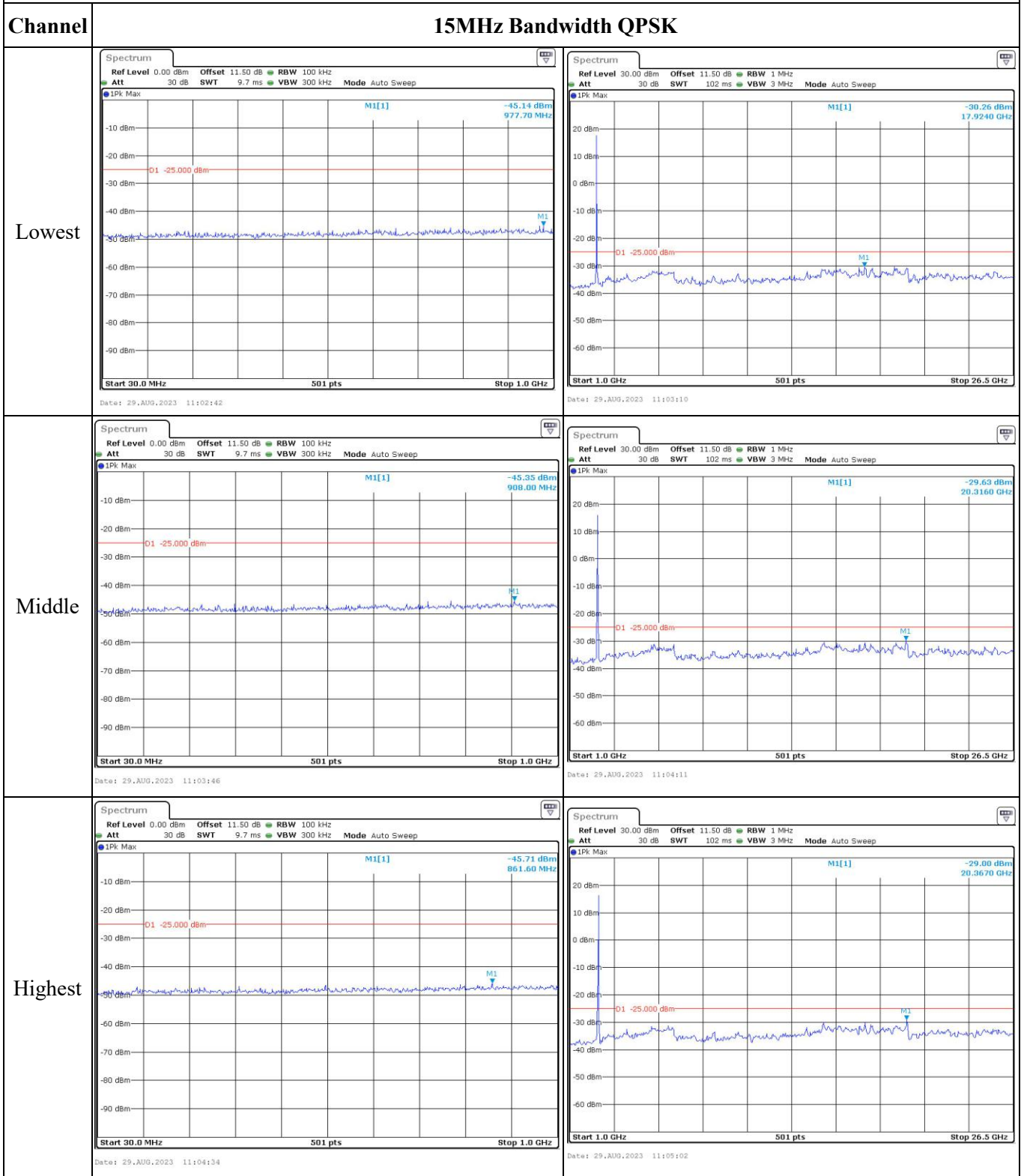
Middle



Highest



Spurious Emissions at Antenna Terminal

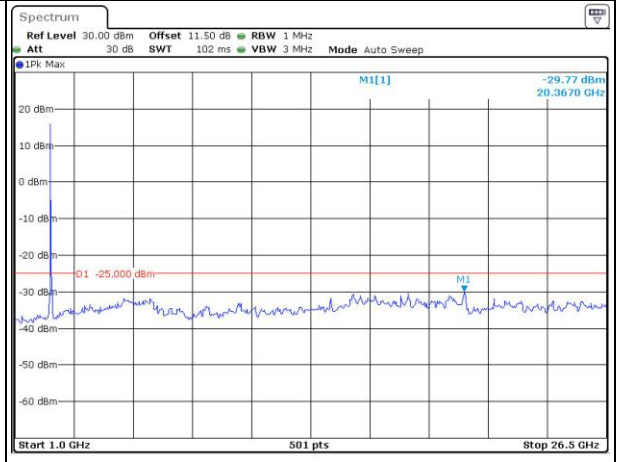
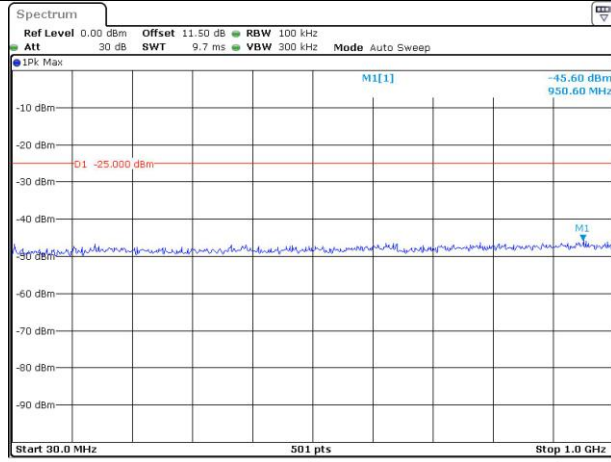


Spurious Emissions at Antenna Terminal

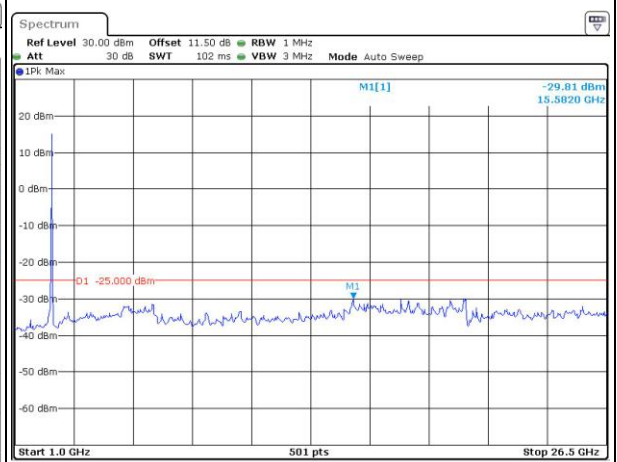
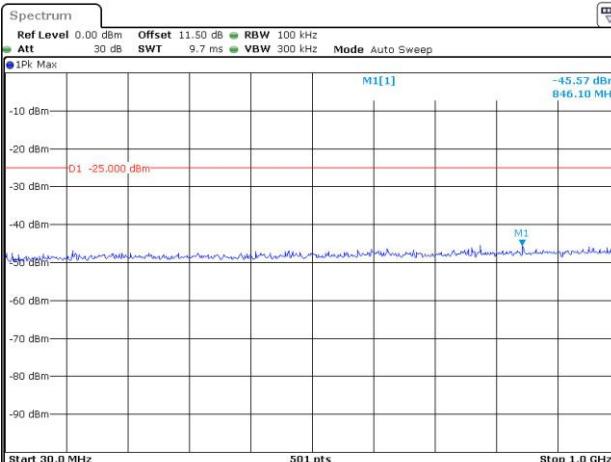
Channel

20MHz Bandwidth QPSK

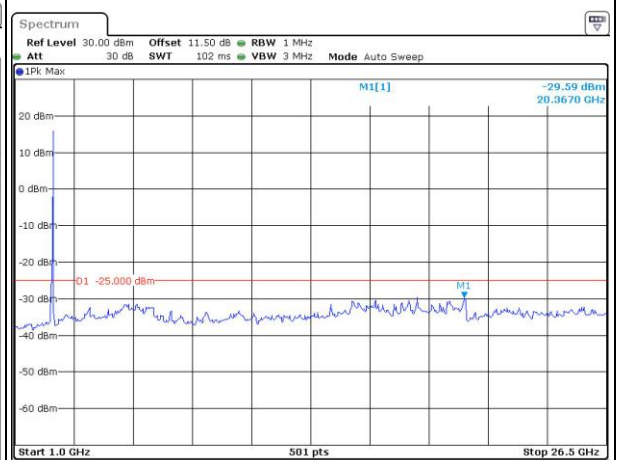
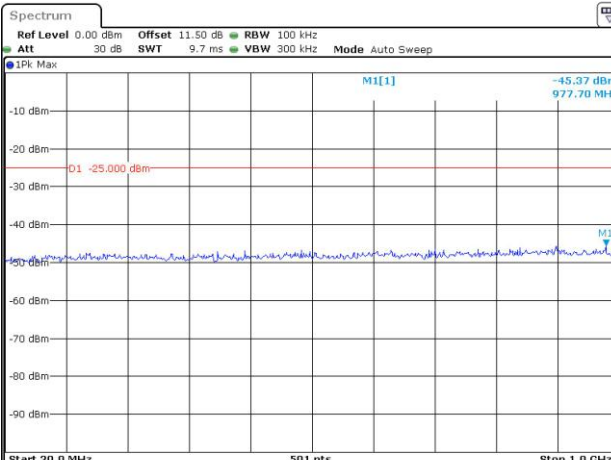
Lowest



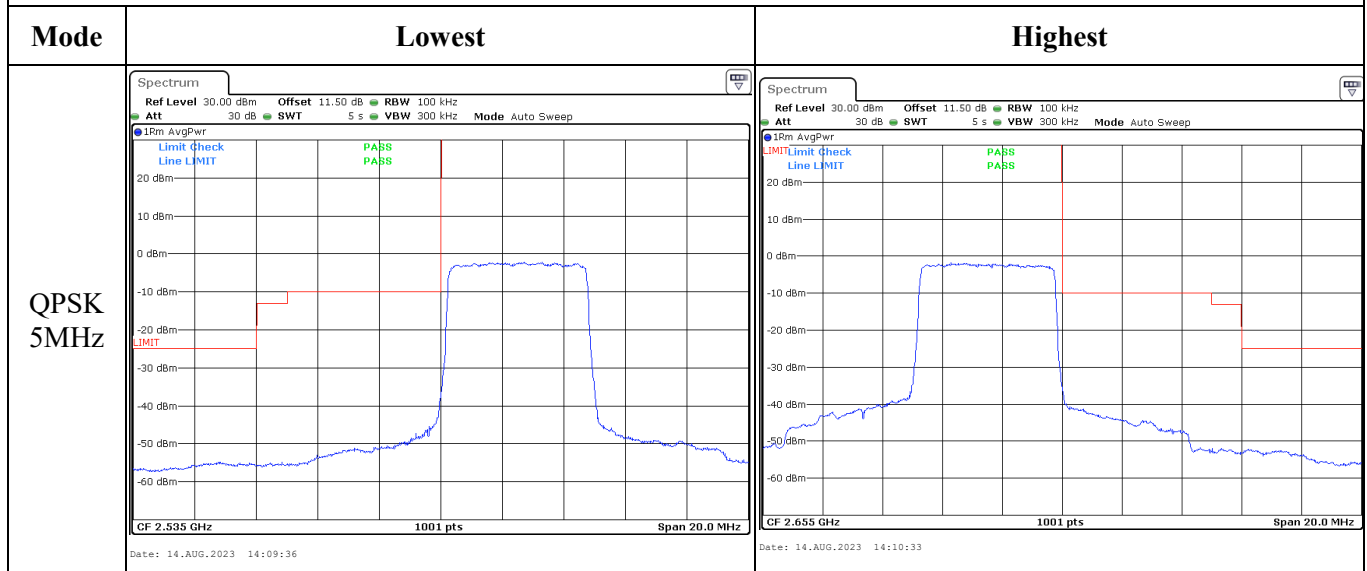
Middle



Highest



Out of band emission, Band Edge



Out of band emission, Band Edge

