

Test Data:**FCC §2.1046; §24.232****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	23.07	22.94	22.9	20.25	33
	RB1#3	23.25	23.01	23.09		
	RB1#5	23.05	22.91	23.01		
	RB3#0	23.02	22.97	22.75		
	RB3#3	23.09	22.97	22.71		
	RB6#0	22.18	22.02	22		
1.4MHz 16QAM	RB1#0	22.11	21.89	21.68	19.31	33
	RB1#3	22.31	22.11	21.83		
	RB1#5	22.13	21.91	21.64		
	RB3#0	21.98	22	21.67		
	RB3#3	21.98	21.98	21.67		
	RB6#0	21.12	20.93	20.77		
3MHz QPSK	RB1#0	23.14	22.99	22.8	20.14	33
	RB1#8	23.11	22.99	22.92		
	RB1#14	23.09	22.96	23.03		
	RB6#0	22.08	21.96	21.87		
	RB6#9	22.11	21.96	21.87		
	RB15#0	22.08	21.95	21.77		
3MHz 16QAM	RB1#0	22.17	21.97	22.17	19.19	33
	RB1#8	22.19	21.96	22.12		
	RB1#14	22.18	21.9	22.02		
	RB6#0	21.05	20.88	20.83		
	RB6#9	21.09	20.87	20.73		
	RB15#0	20.99	20.96	20.73		
5MHz QPSK	RB1#0	23.01	22.88	22.72	20.13	33
	RB1#13	23.13	22.98	22.84		
	RB1#24	22.97	22.86	22.88		
	RB15#0	22.06	21.93	21.86		
	RB15#10	22.08	21.95	21.69		
	RB25#0	21.98	21.91	21.68		
5MHz 16QAM	RB1#0	21.82	22.09	21.71	19.22	33
	RB1#13	21.93	22.22	21.83		
	RB1#24	21.83	22.1	21.65		
	RB15#0	21.02	20.86	20.82		
	RB15#10	21.05	20.9	20.62		
	RB25#0	21.02	20.9	20.7		
10MHz QPSK	RB1#0	23.11	22.92	22.74	20.17	33
	RB1#25	23.17	23.07	22.88		

	RB1#49	23.09	22.91	22.92		
	RB25#0	21.98	21.93	21.85		
	RB25#25	22.03	21.97	21.74		
	RB50#0	22	21.93	21.75		
10MHz 16QAM	RB1#0	22.02	22.37	21.84	19.54	33
	RB1#25	22.15	22.54	22.05		
	RB1#49	21.98	22.42	21.79		
	RB25#0	21	20.94	20.85		
	RB25#25	21.08	20.96	20.7		
15MHz QPSK	RB50#0	20.99	20.94	20.73	20.11	33
	RB1#0	22.99	22.85	22.66		
	RB1#38	23.11	22.95	22.78		
	RB1#74	22.99	22.91	22.86		
	RB36#0	22.12	22.01	21.95		
15MHz 16QAM	RB36#39	22.15	22.01	21.85	19.34	33
	RB75#0	22.12	22.05	21.94		
	RB1#0	22.03	22.15	22.06		
	RB1#38	22.12	22.27	22.24		
	RB1#74	22.07	22.34	21.99		
20MHz QPSK	RB36#0	21.02	20.92	20.82	20.26	33
	RB36#39	21.07	20.92	20.78		
	RB75#0	21.04	20.95	20.86		
	RB1#0	22.86	22.67	22.61		
	RB1#50	23.26	23.03	22.98		
20MHz 16QAM	RB1#99	22.87	22.65	22.61	19.57	33
	RB50#0	21.99	21.98	21.98		
	RB50#50	22.05	21.95	21.74		
	RB100#0	22.03	22.01	21.88		
	RB1#0	21.95	22.21	21.85		
	RB1#50	22.36	22.57	22.19		
	RB1#99	21.95	22.18	21.74		
	RB50#0	20.92	20.94	20.91		
	RB50#50	21.02	20.92	20.74		
	RB100#0	20.98	20.97	20.87		

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	3.77	4.38	4.23	13
	RB100#0	3.74	3.88	4.06	13
20MHz 16QAM	RB1#0	4.72	5.39	4.84	13
	RB100#0	5.42	5.54	5.54	13
				Result:	Pass

FCC §2.1049, §24.238: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	1.114	1.332	1.296	2.016
1.4MHz 16QAM	1.096	1.096	1.114	1.302	1.296	1.506
3MHz QPSK	2.695	2.683	2.683	2.88	2.88	2.88
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.88
5MHz QPSK	4.511	4.511	4.531	5.24	5.14	5.22
5MHz 16QAM	4.551	4.551	4.531	5.22	5.24	5.16
10MHz QPSK	8.942	8.942	8.982	10.16	10.08	9.88
10MHz 16QAM	8.942	8.942	8.982	9.8	9.92	9.92
15MHz QPSK	13.413	13.533	13.533	14.82	14.82	14.88
15MHz 16QAM	13.533	13.533	13.533	14.88	14.82	14.76
20MHz QPSK	17.964	17.964	17.964	19.52	19.76	19.76
20MHz 16QAM	17.964	17.964	17.964	19.76	19.68	19.44

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

FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 24.238 (a):Out of band emission, Band Edge

Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §24.235: 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	3.78	1851.057	1850.000	1913.902	1915.000
	-20	3.78	1851.032	1850.000	1913.917	1915.000
	-10	3.78	1851.013	1850.000	1913.991	1915.000
	0	3.78	1851.065	1850.000	1913.966	1915.000
	10	3.78	1851.064	1850.000	1913.984	1915.000
	20	3.78	1851.058	1850.000	1913.942	1915.000
	30	3.78	1851.059	1850.000	1913.921	1915.000
	40	3.78	1851.082	1850.000	1913.971	1915.000
	50	3.78	1851.073	1850.000	1913.922	1915.000
Frequency Stability vs. Voltage	20	3.6	1851.033	1850.000	1913.934	1915.000
	20	4.4	1851.054	1850.000	1913.984	1915.000
					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	3.78	1851.013	1850.000	1913.983	1915.000
	-20	3.78	1851.019	1850.000	1913.936	1915.000
	-10	3.78	1851.055	1850.000	1913.934	1915.000
	0	3.78	1851.032	1850.000	1913.936	1915.000
	10	3.78	1851.041	1850.000	1913.969	1915.000
	20	3.78	1851.058	1850.000	1913.942	1915.000
	30	3.78	1851.013	1850.000	1913.987	1915.000
	40	3.78	1851.097	1850.000	1913.982	1915.000
	50	3.78	1851.082	1850.000	1913.989	1915.000
Frequency Stability vs. Voltage	20	3.6	1851.064	1850.000	1914.000	1915.000
	20	4.4	1851.008	1850.000	1913.972	1915.000
					Result:	Pass

Test Plots(Note: The 7.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

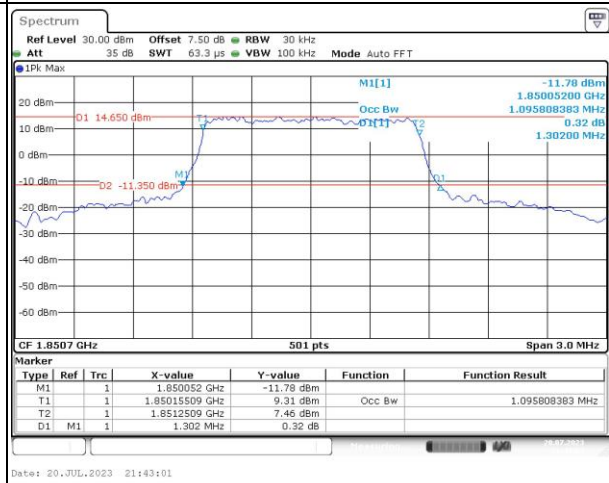
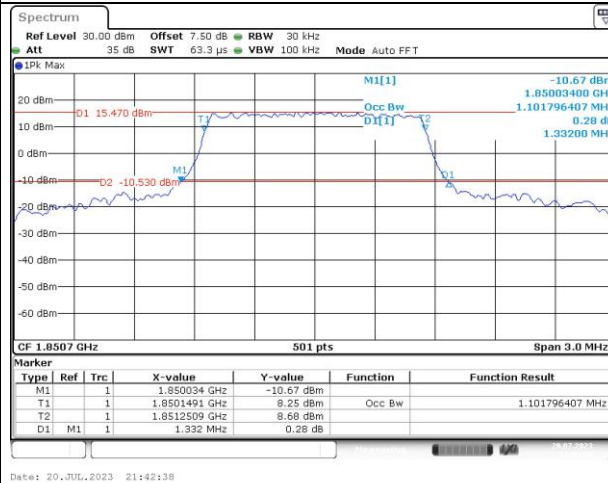
Occupied Bandwidth

Channel

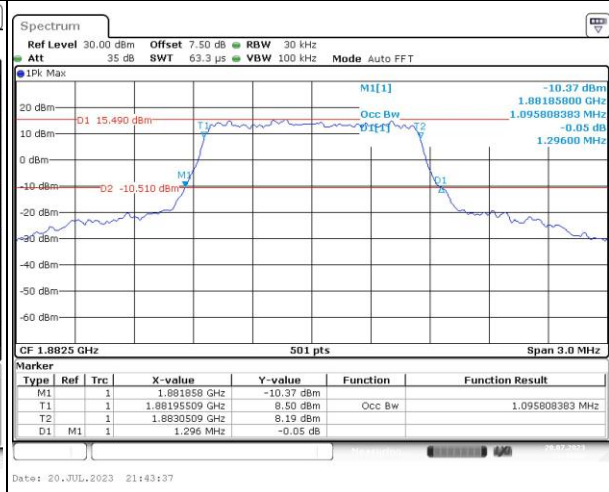
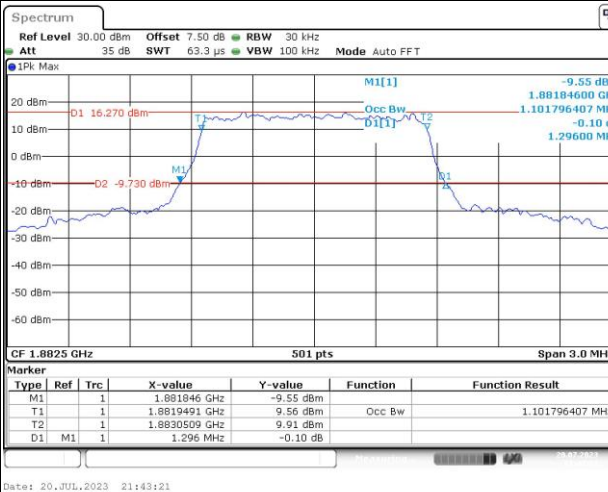
1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

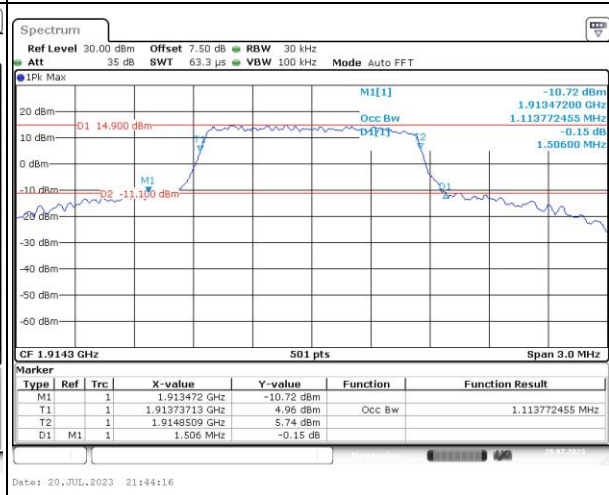
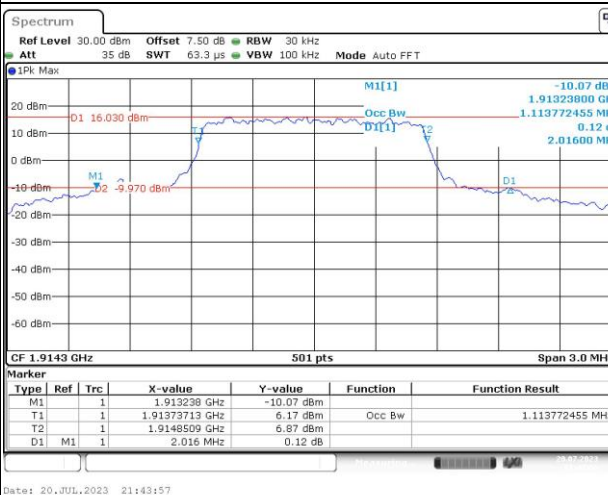
Lowest



Middle



Highest



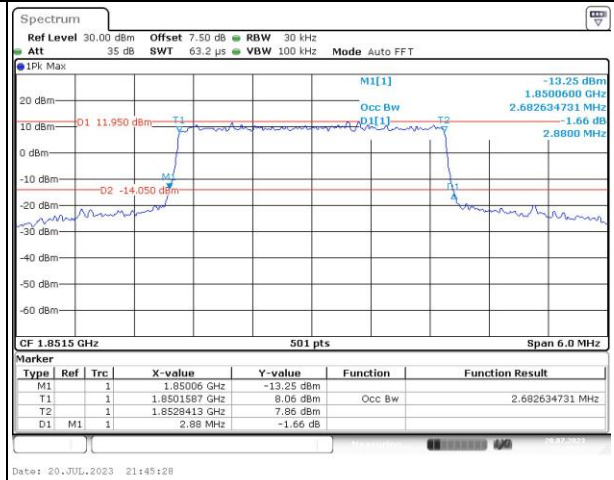
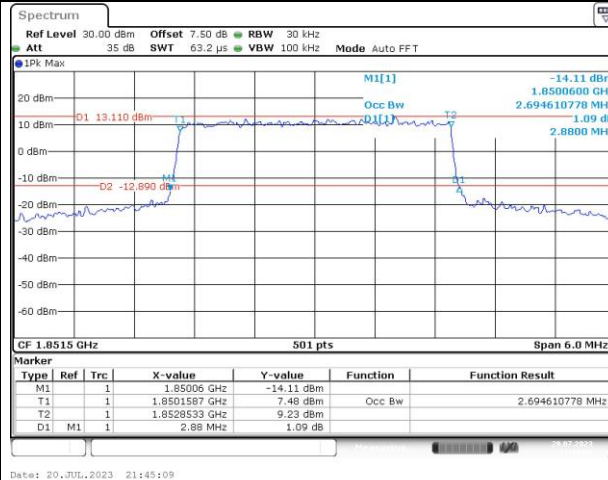
Occupied Bandwidth

Channel

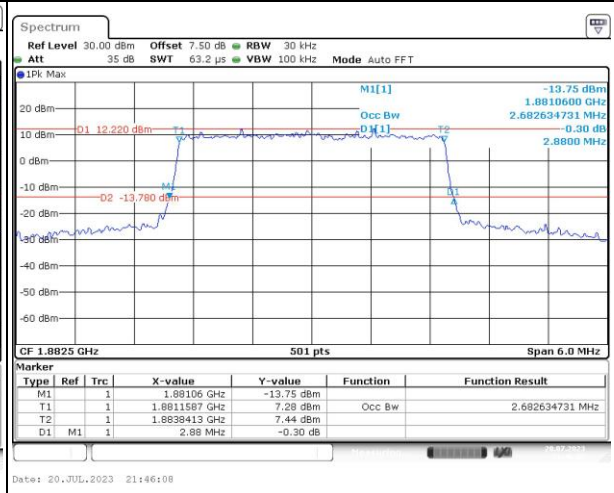
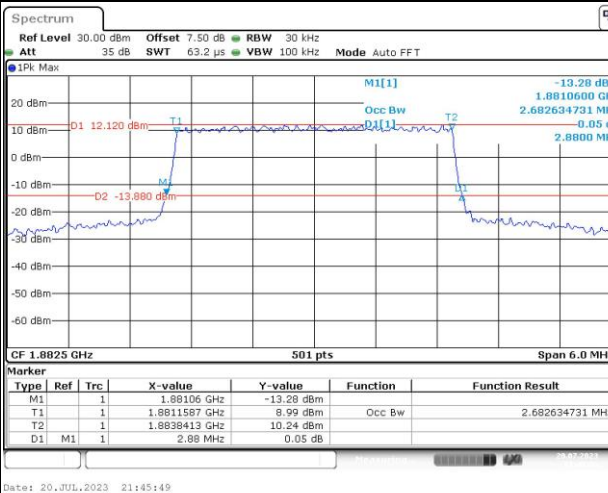
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

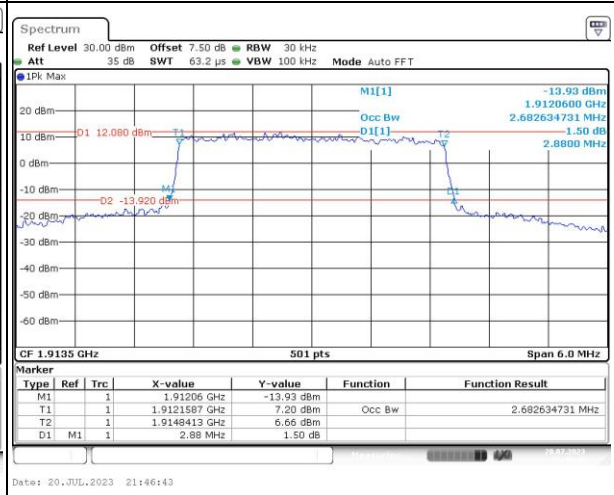
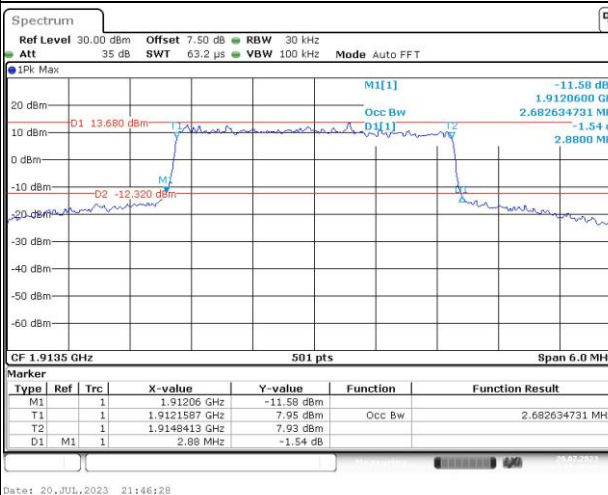
Lowest



Middle



Highest



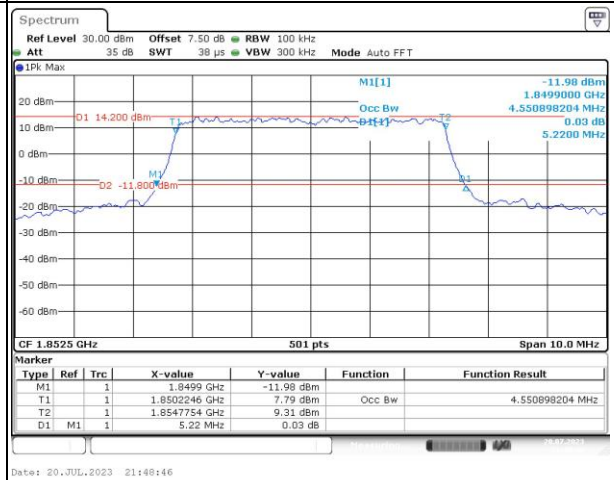
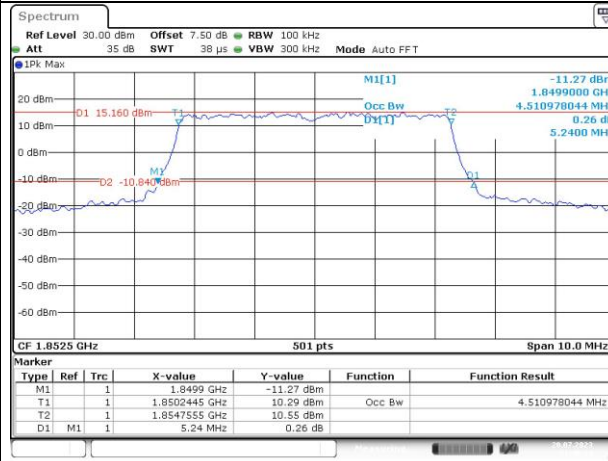
Occupied Bandwidth

Channel

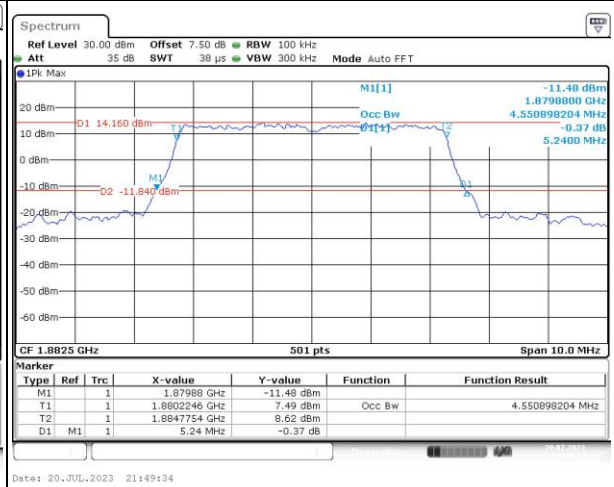
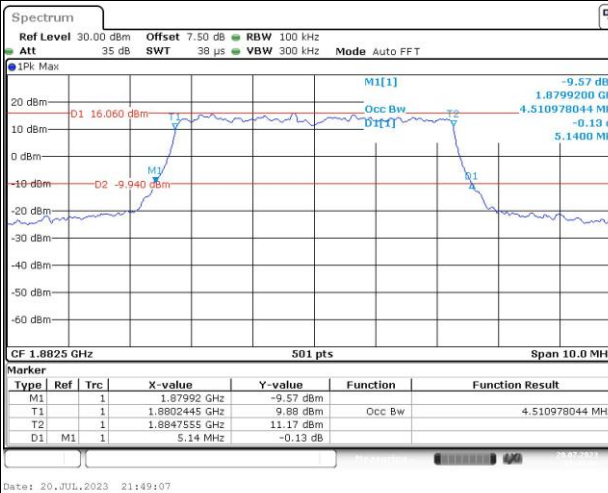
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

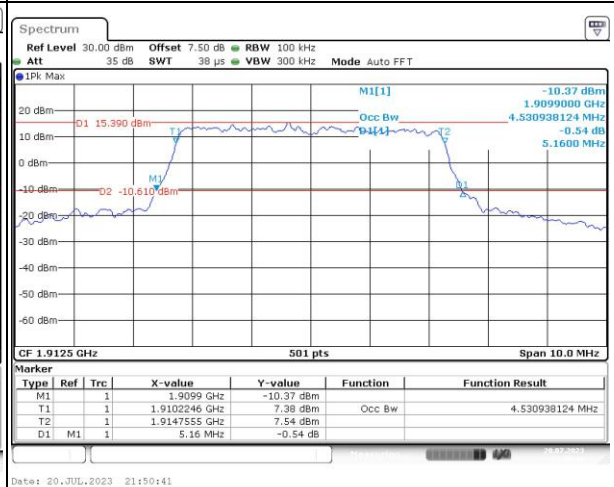
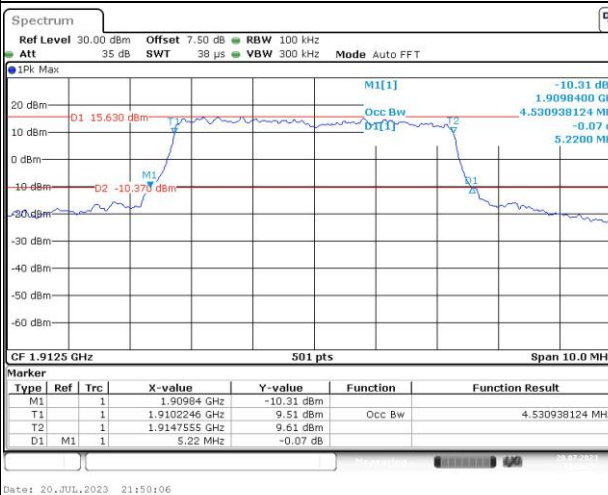
Lowest



Middle



Highest



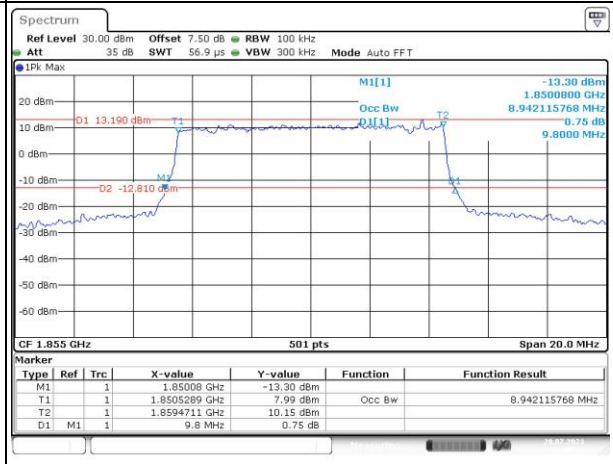
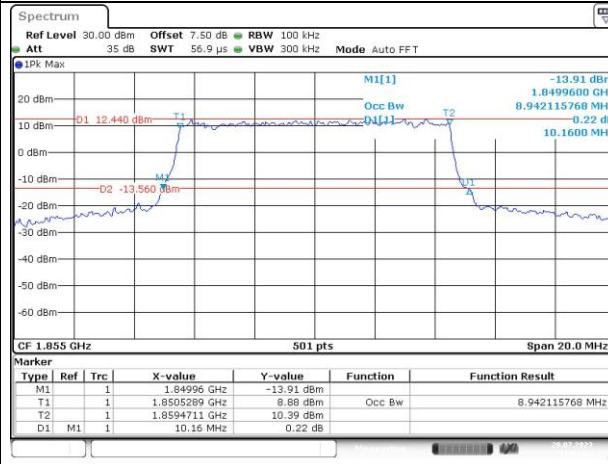
Occupied Bandwidth

Channel

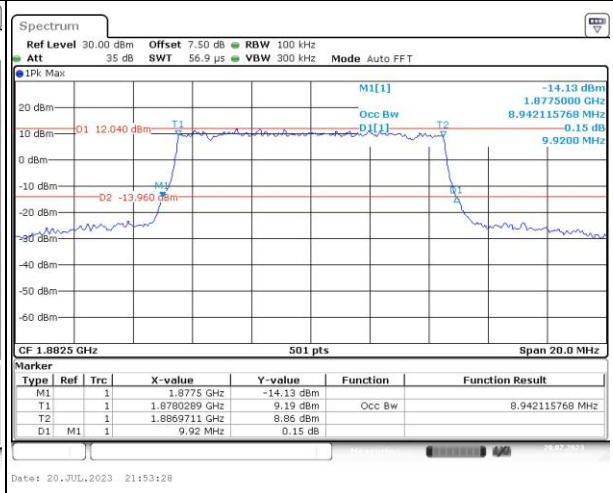
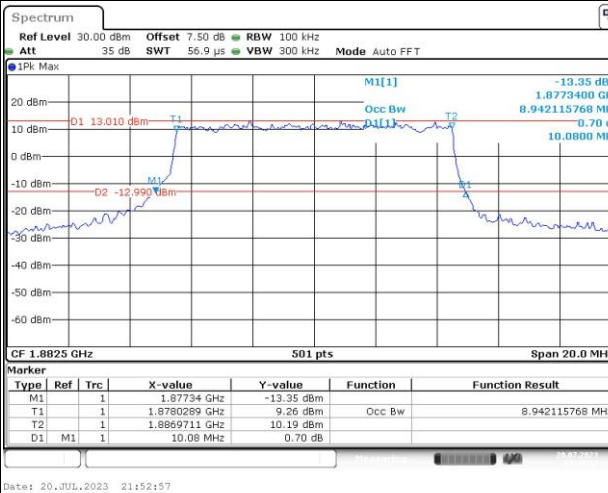
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

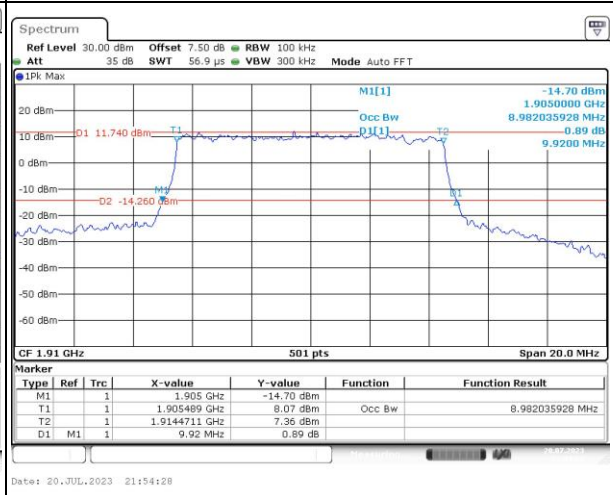
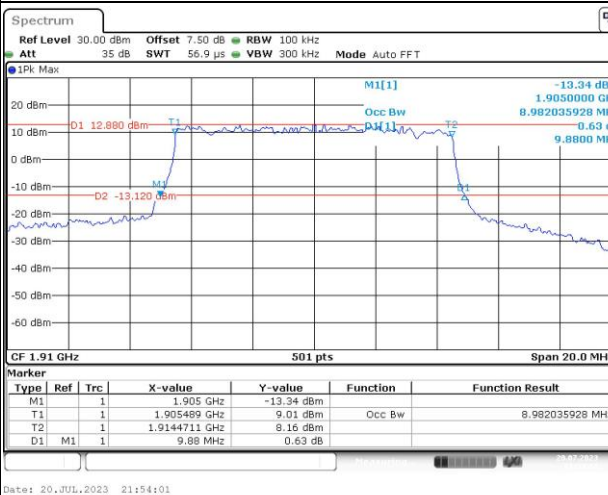
Lowest



Middle



Highest



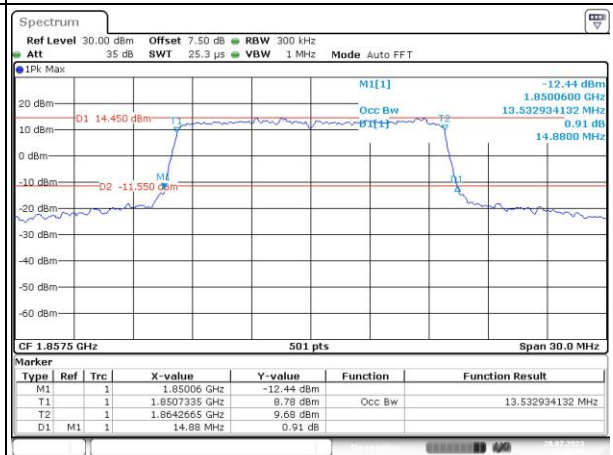
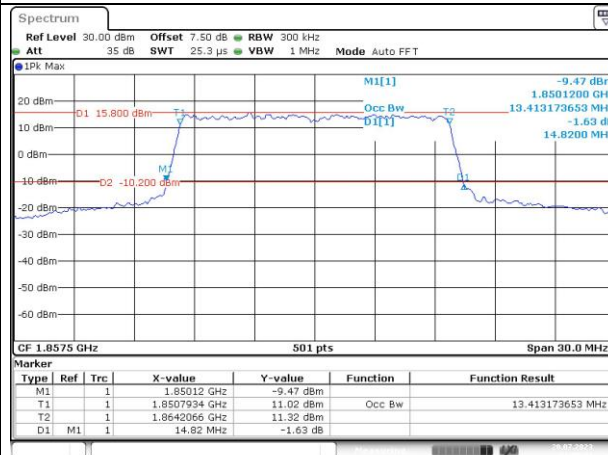
Occupied Bandwidth

Channel

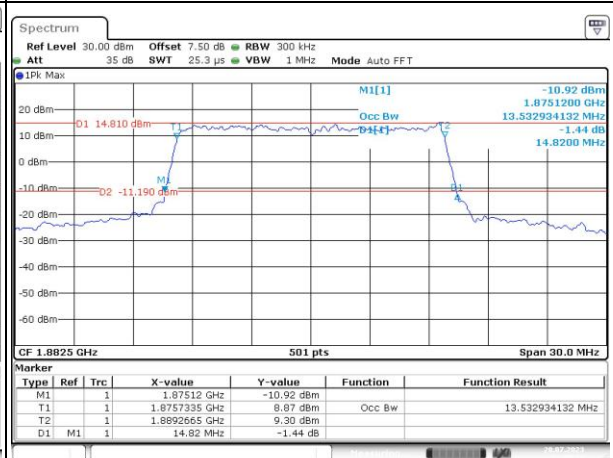
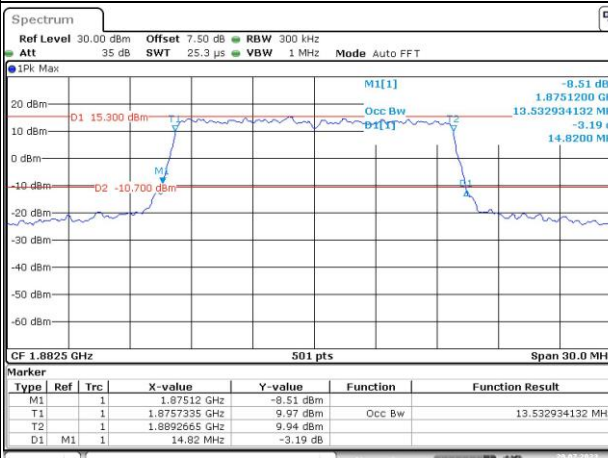
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

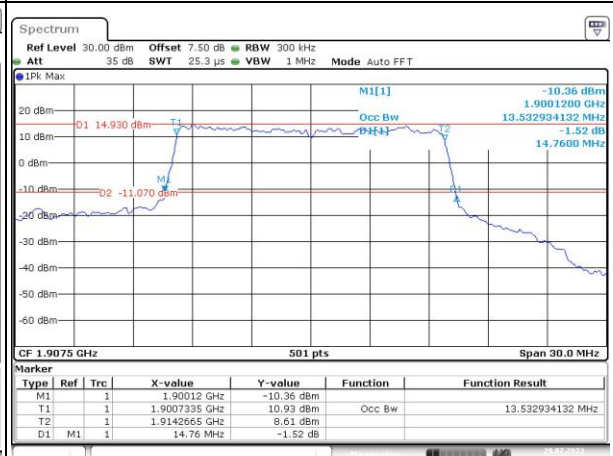
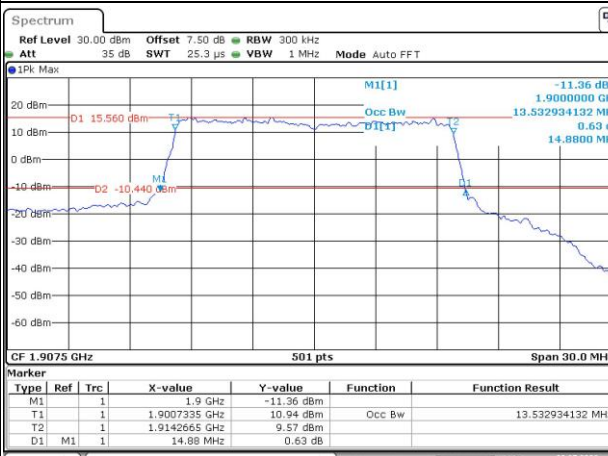
Lowest



Middle



Highest



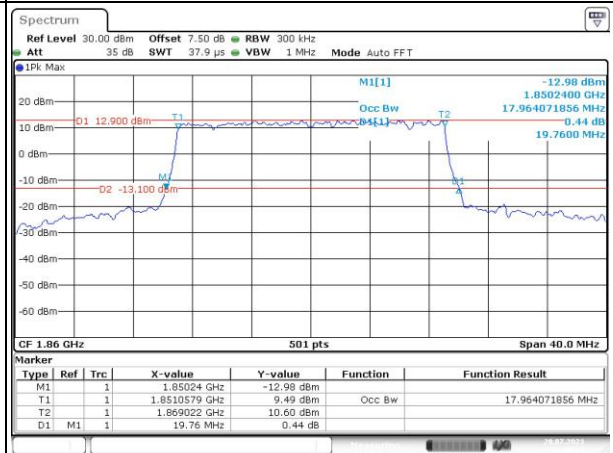
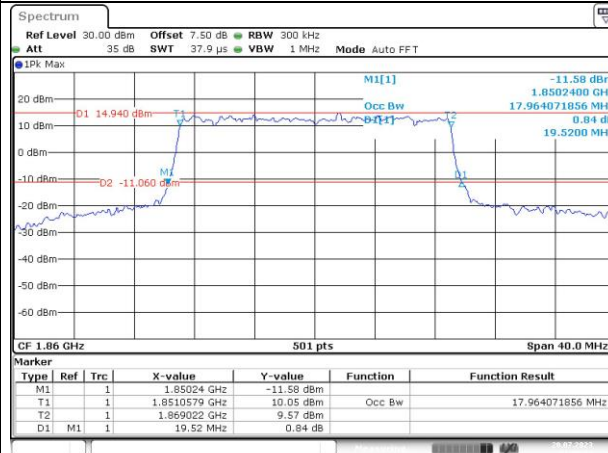
Occupied Bandwidth

Channel

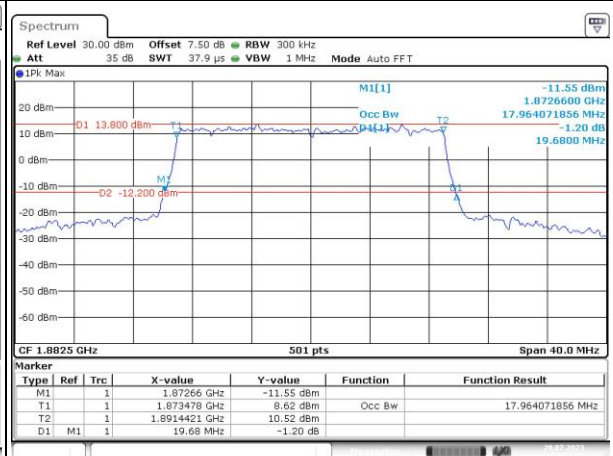
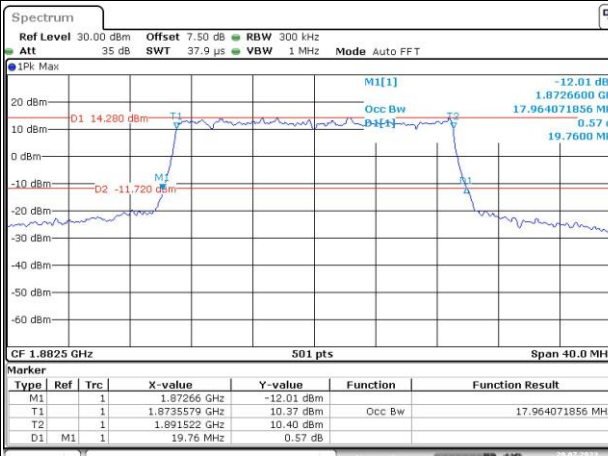
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

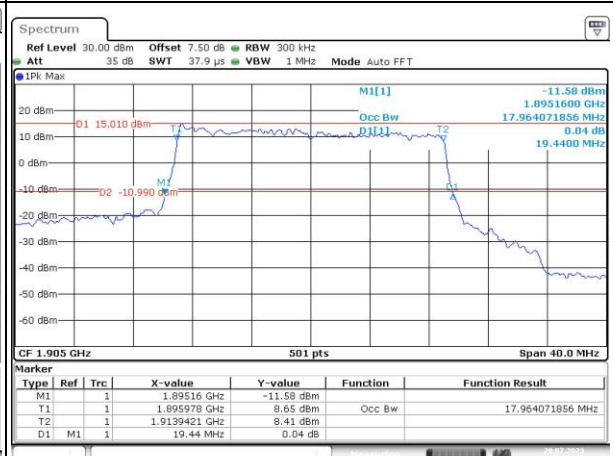
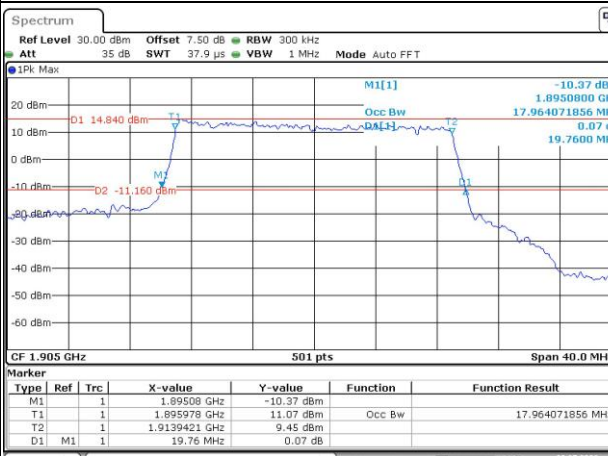
Lowest



Middle



Highest

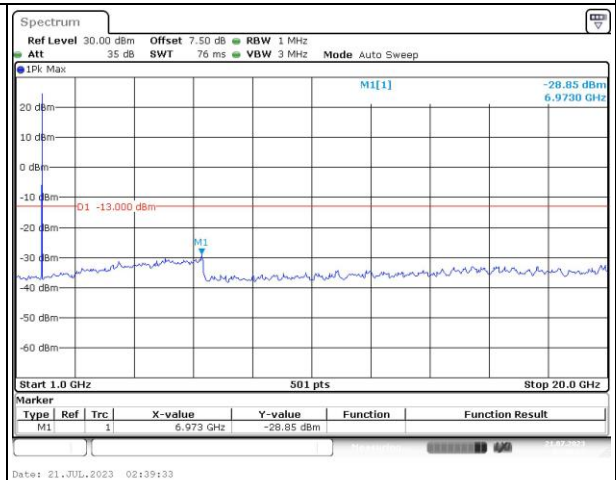
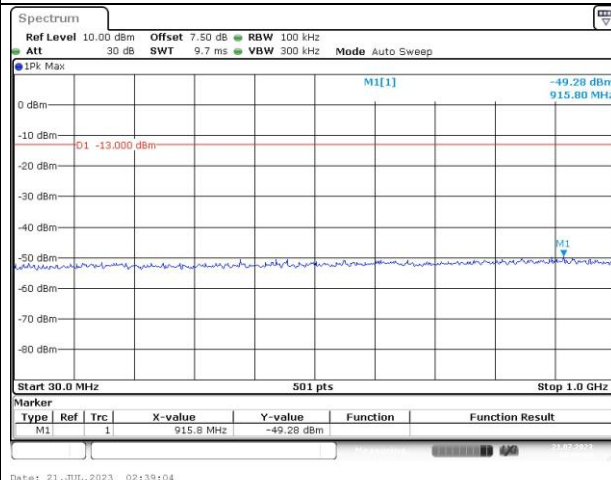


Spurious Emissions at Antenna Terminal

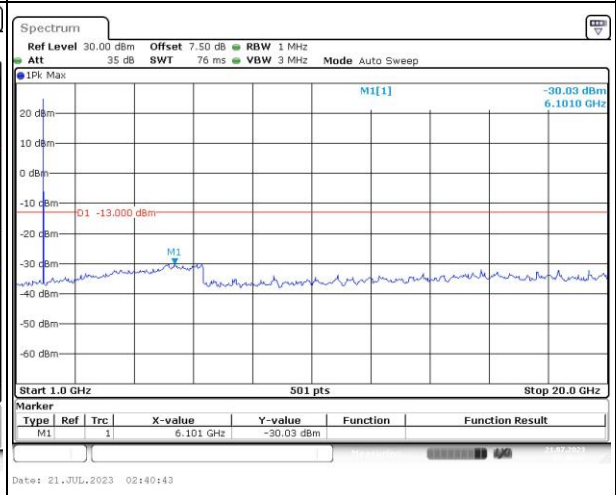
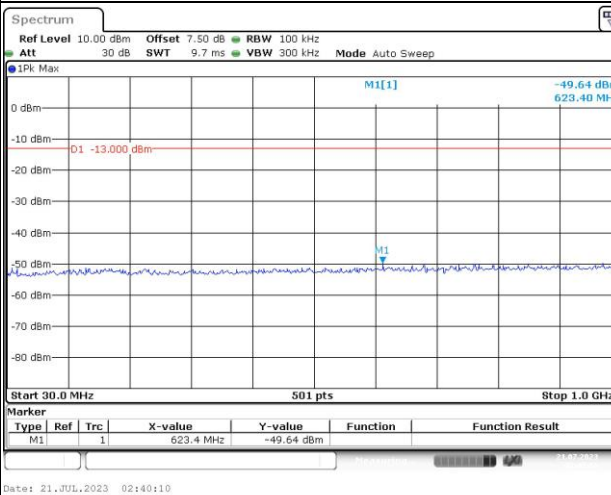
Channel

1.4MHz Bandwidth QPSK

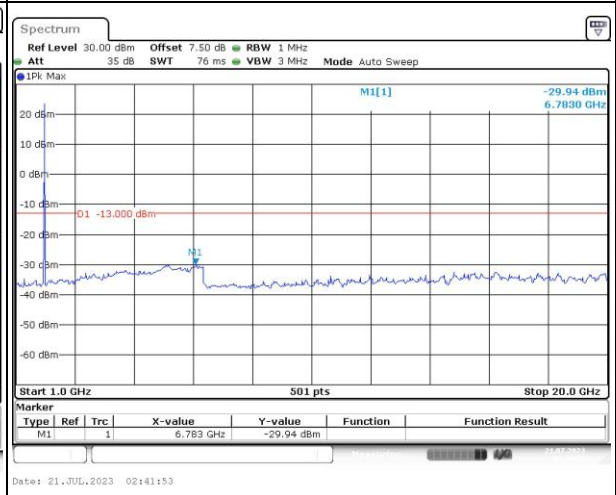
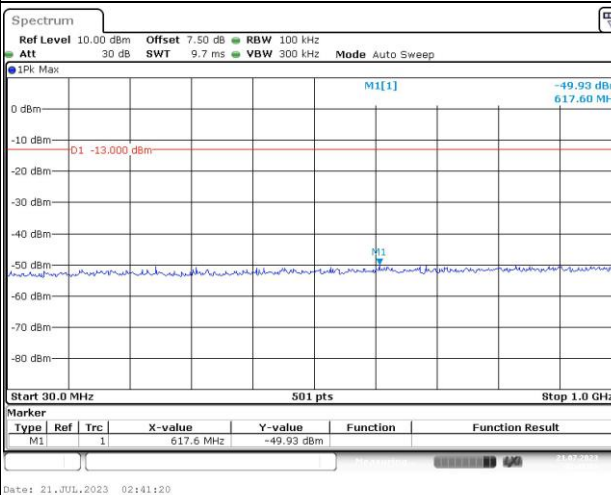
Lowest



Middle



Highest

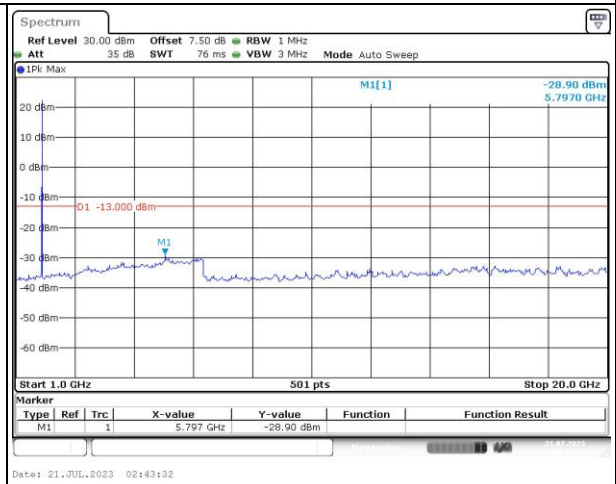
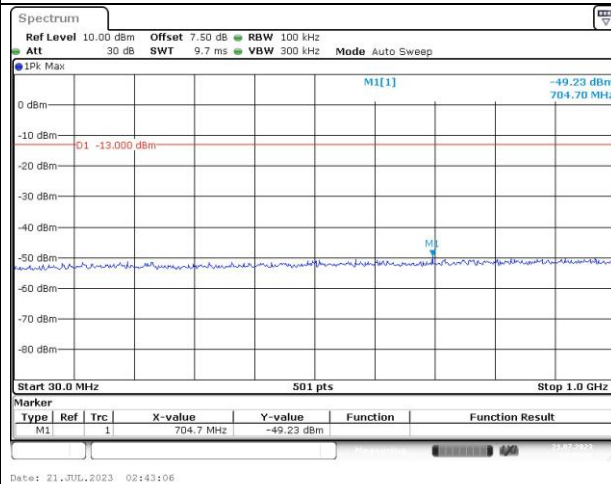


Spurious Emissions at Antenna Terminal

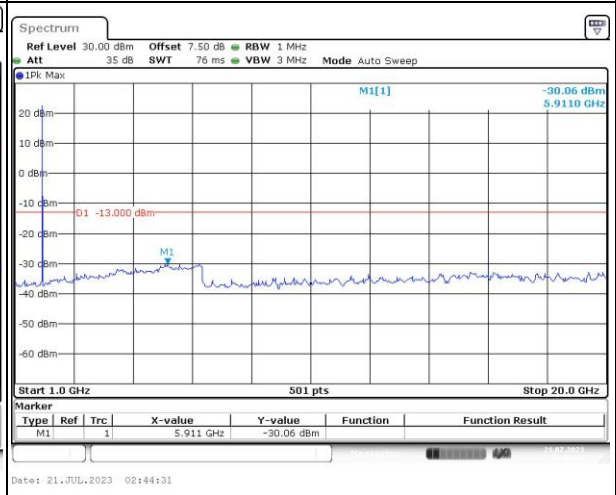
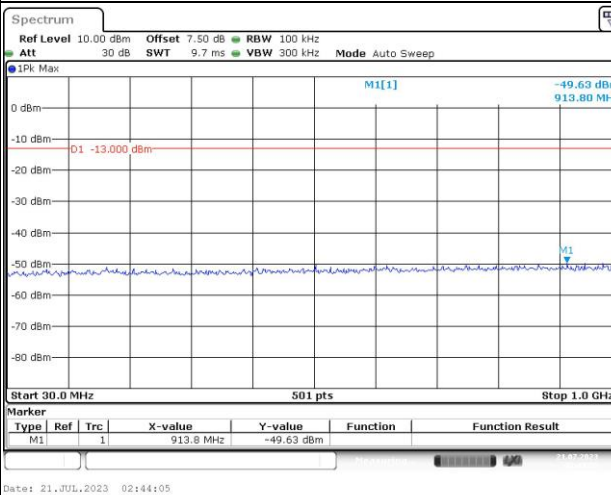
Channel

3MHz Bandwidth QPSK

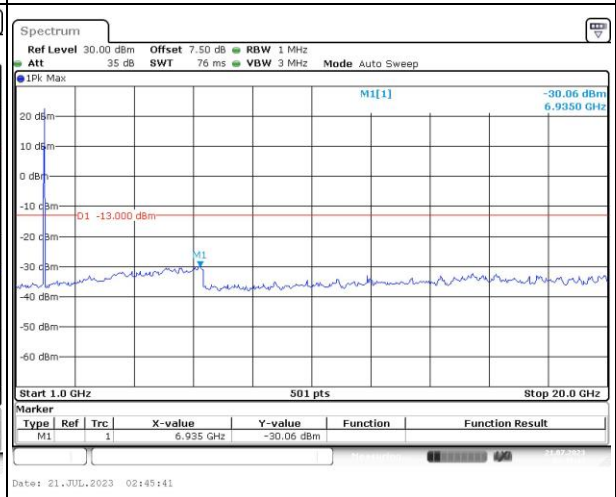
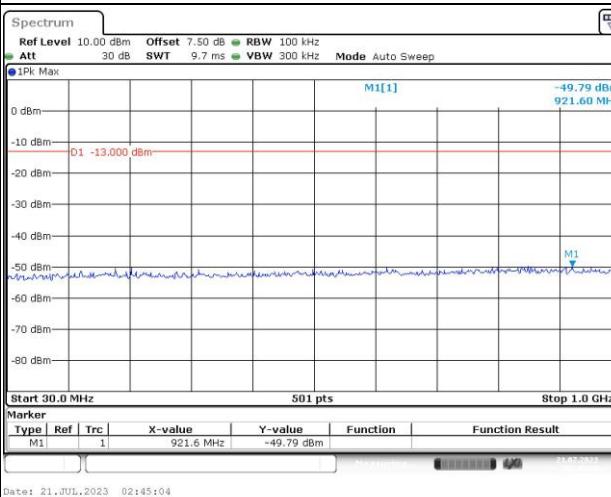
Lowest



Middle



Highest

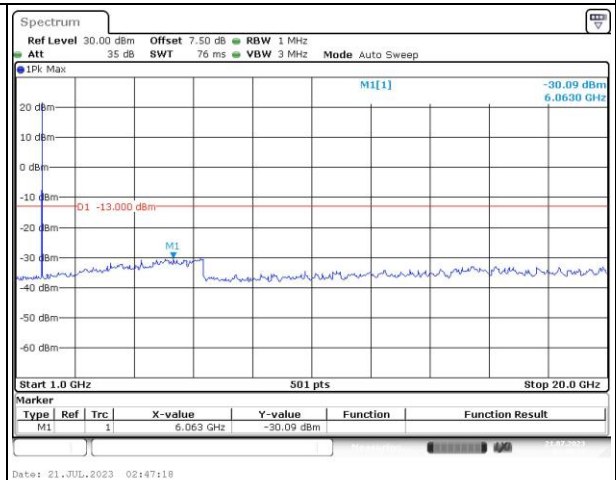
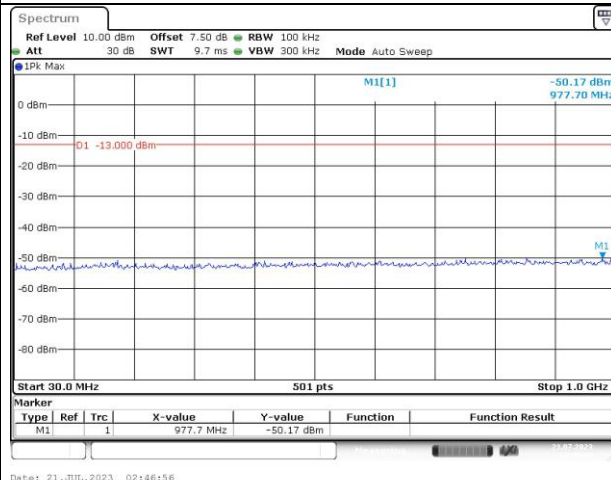


Spurious Emissions at Antenna Terminal

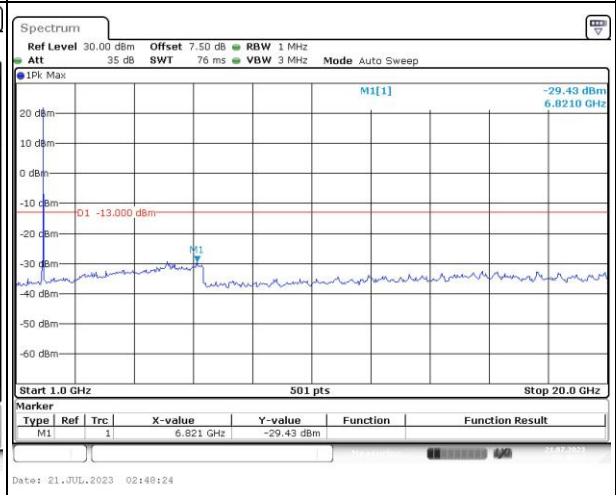
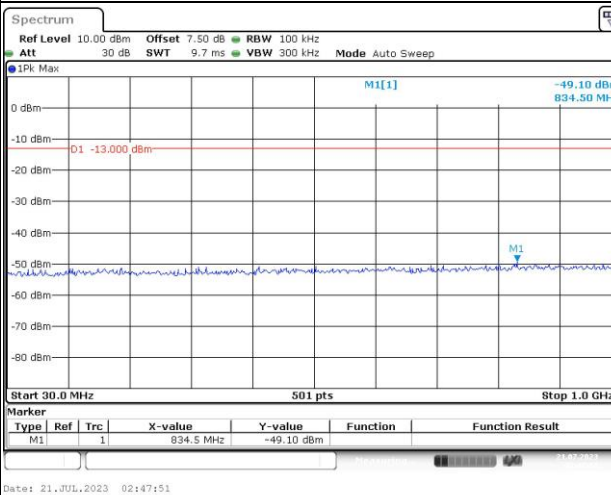
Channel

5MHz Bandwidth QPSK

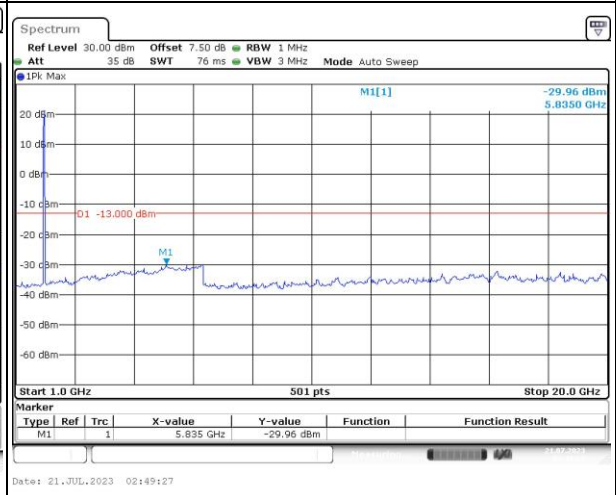
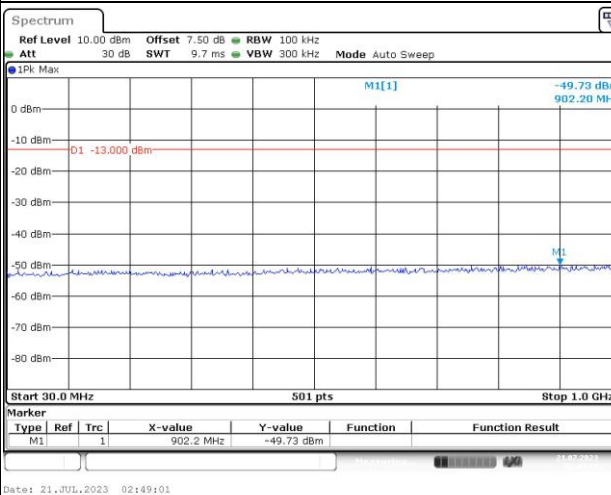
Lowest



Middle



Highest

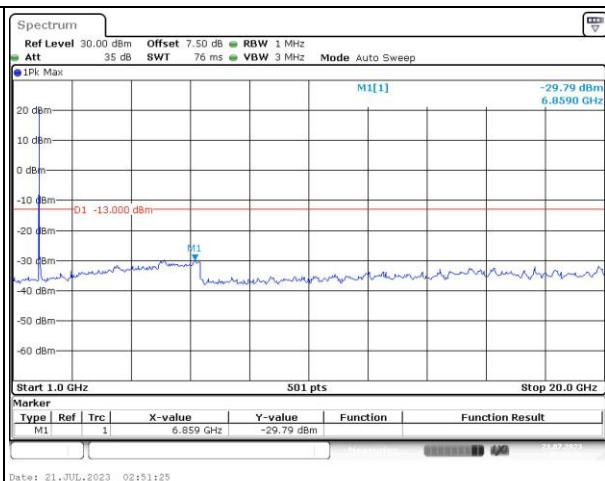
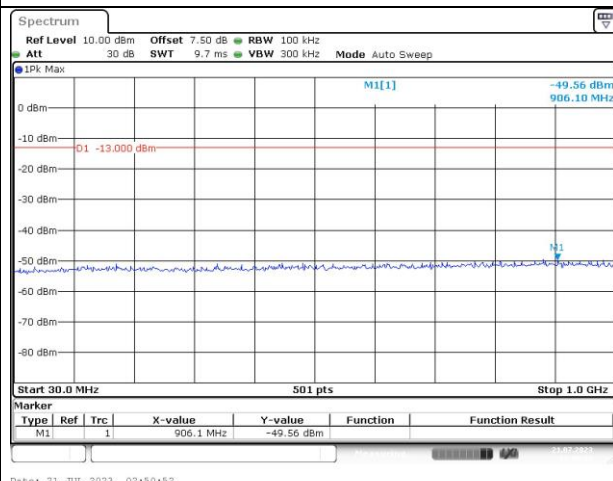


Spurious Emissions at Antenna Terminal

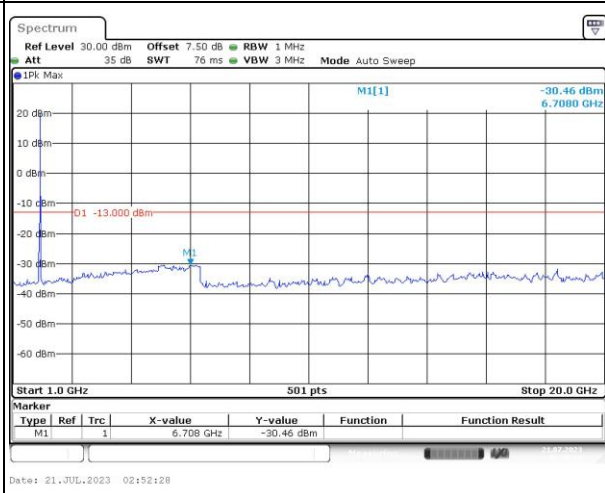
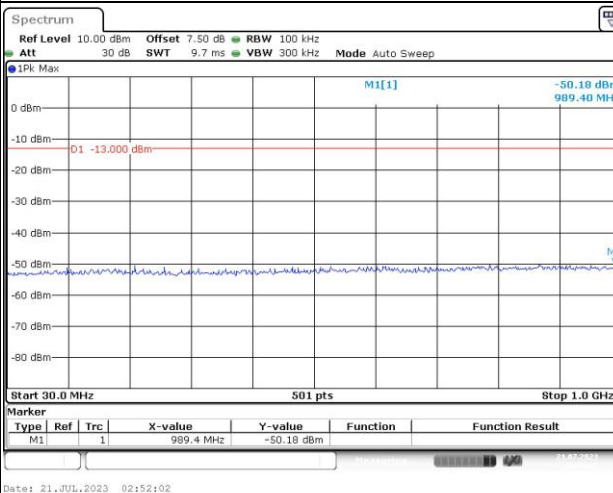
Channel

10MHz Bandwidth QPSK

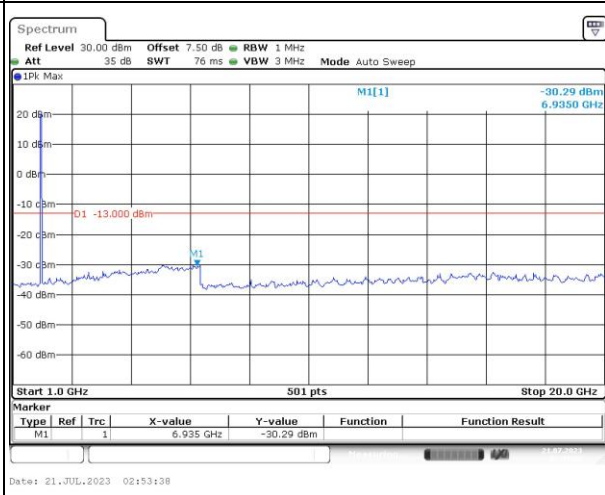
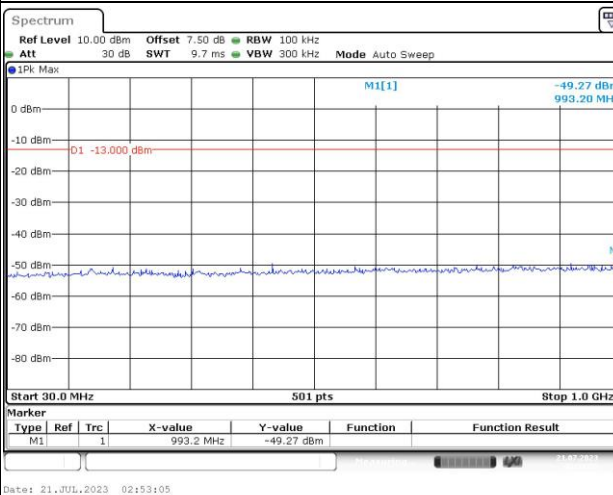
Lowest



Middle



Highest

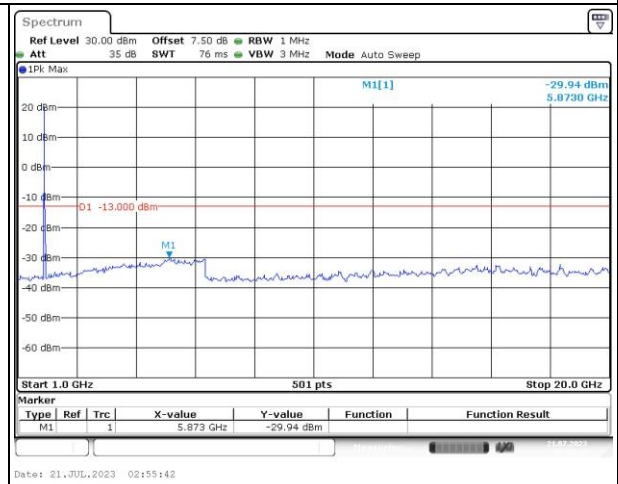
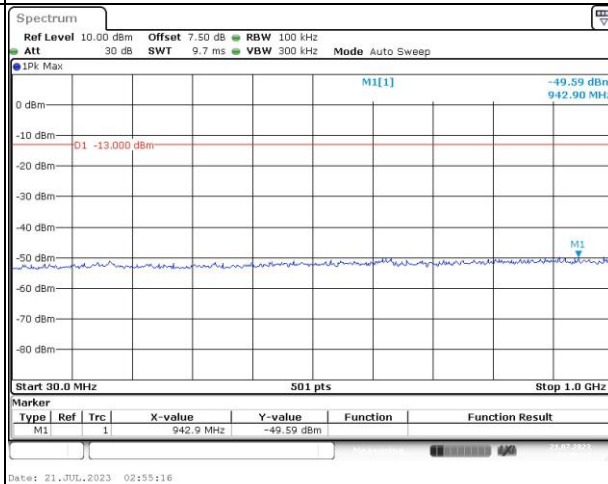


Spurious Emissions at Antenna Terminal

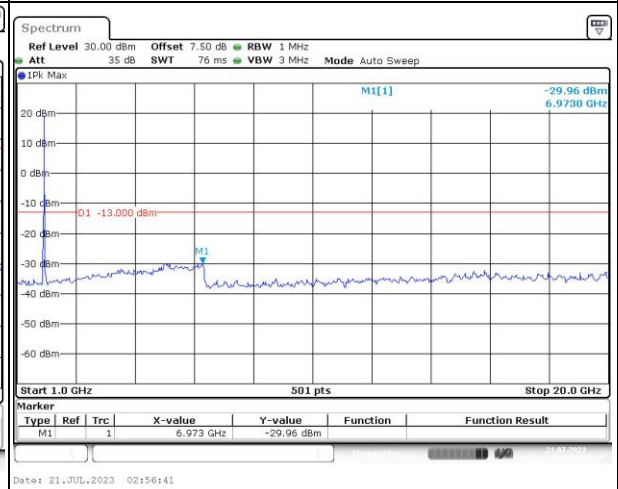
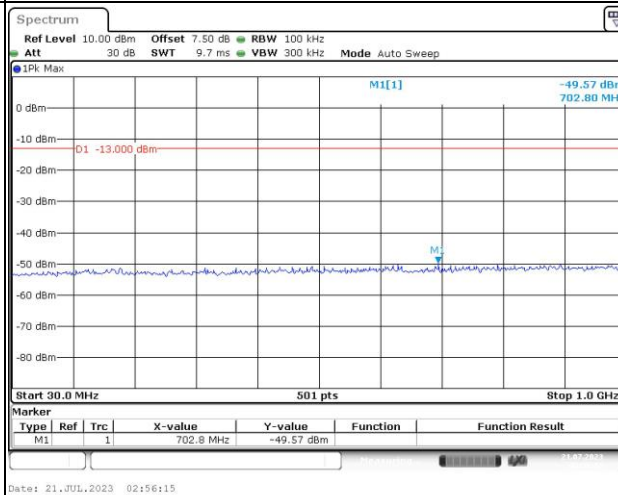
Channel

15MHz Bandwidth QPSK

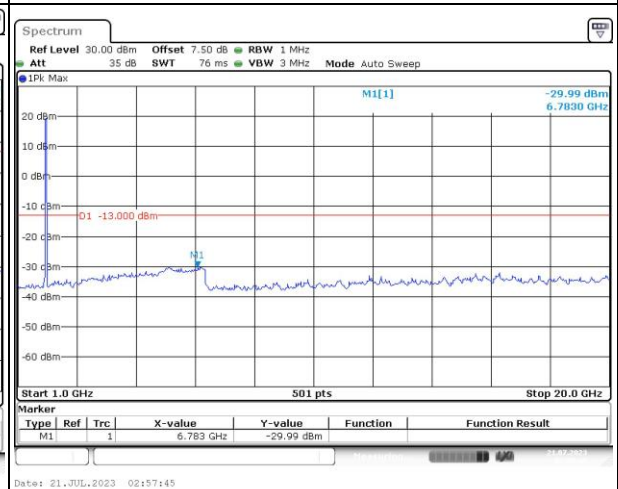
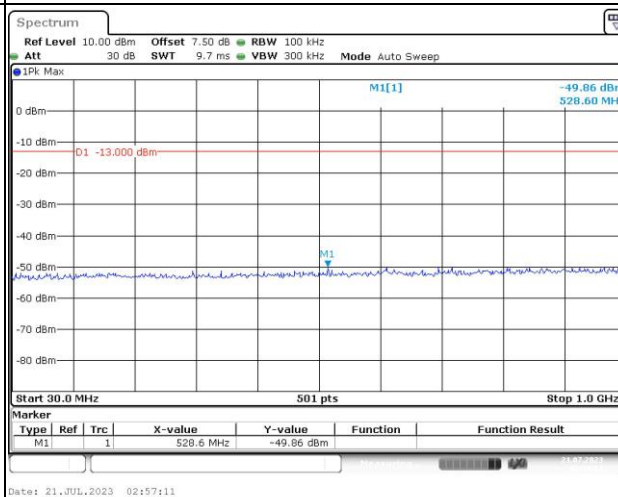
Lowest



Middle



Highest

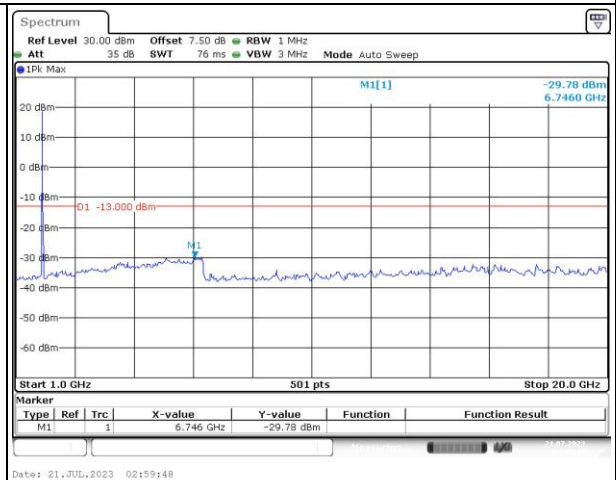
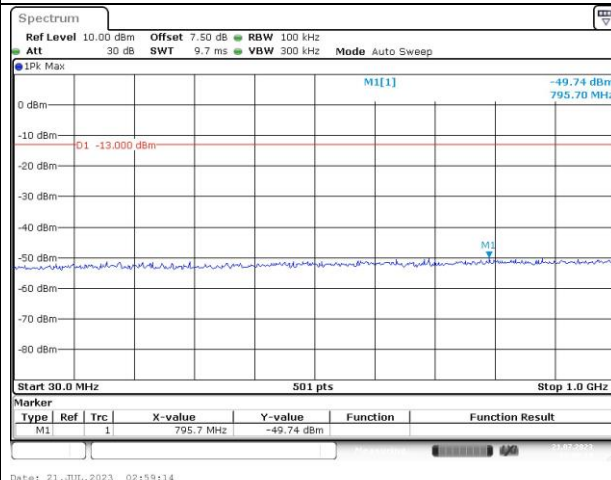


Spurious Emissions at Antenna Terminal

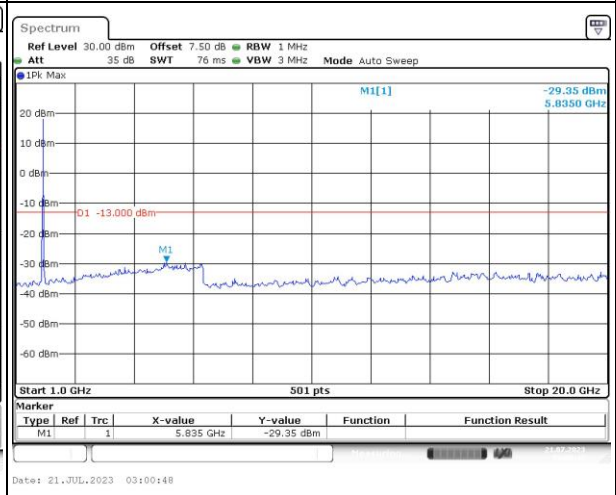
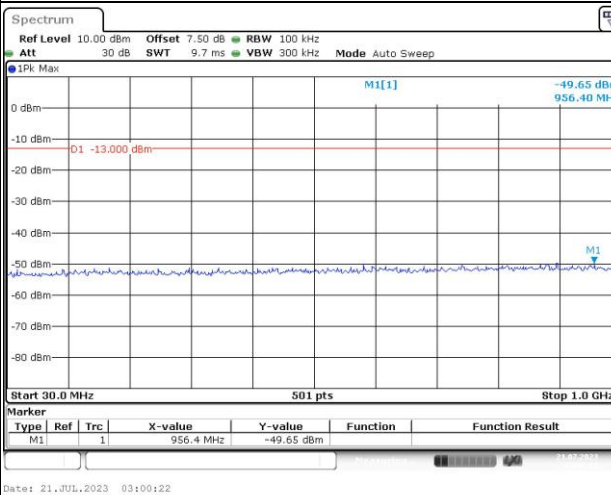
Channel

20MHz Bandwidth QPSK

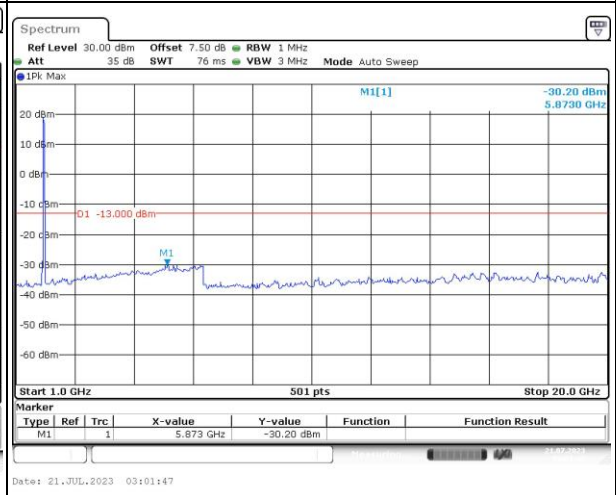
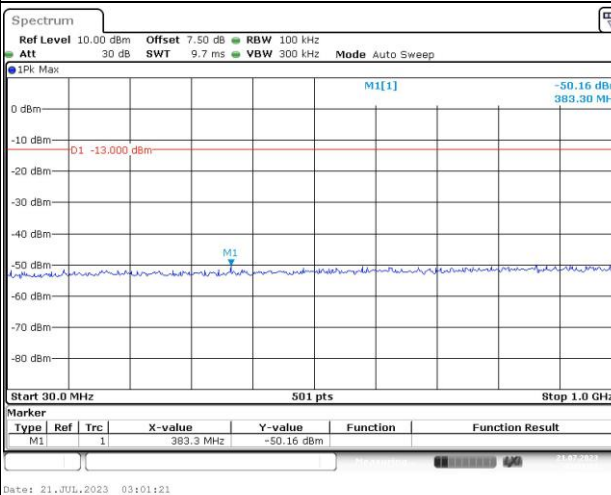
Lowest



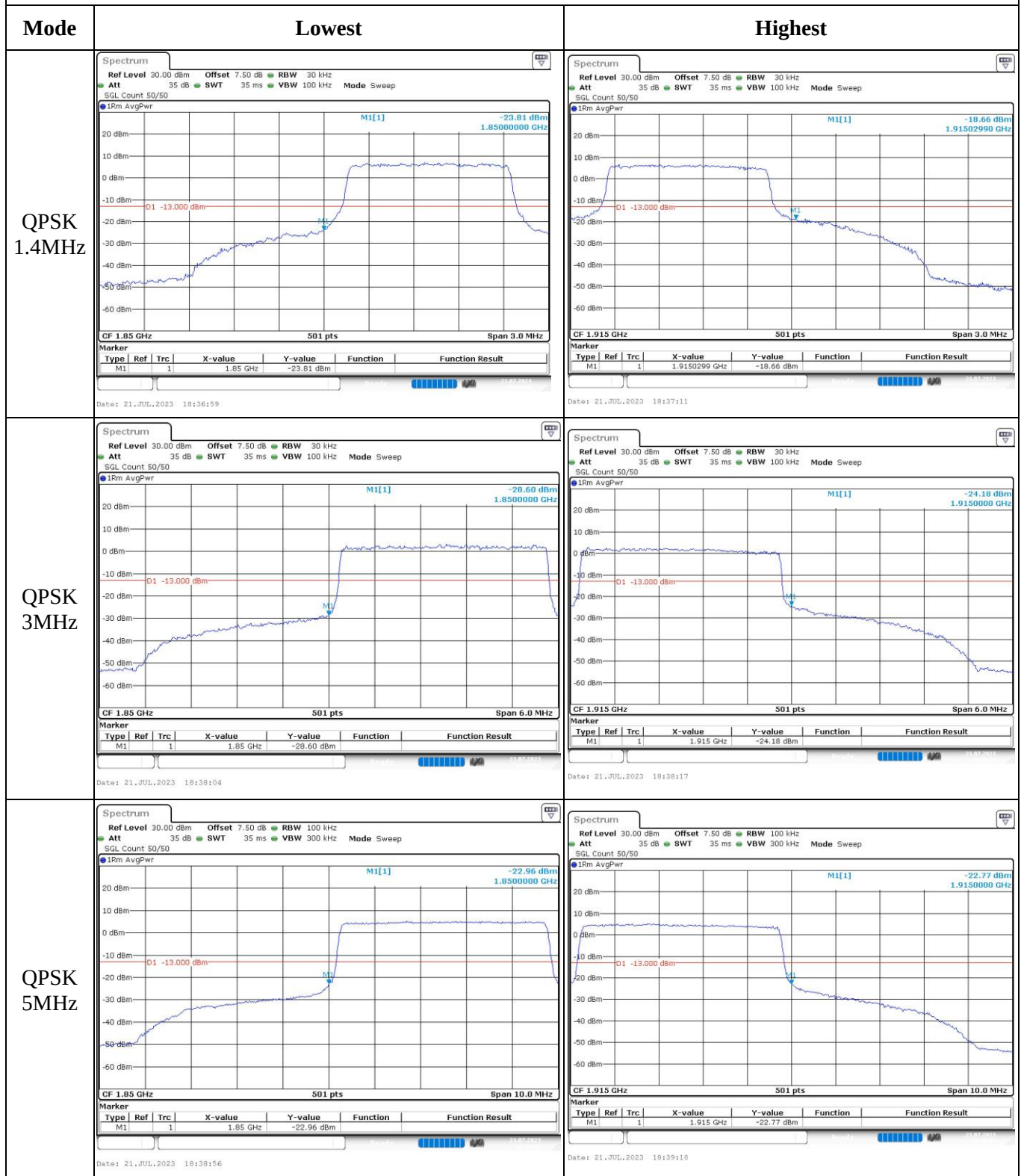
iddle



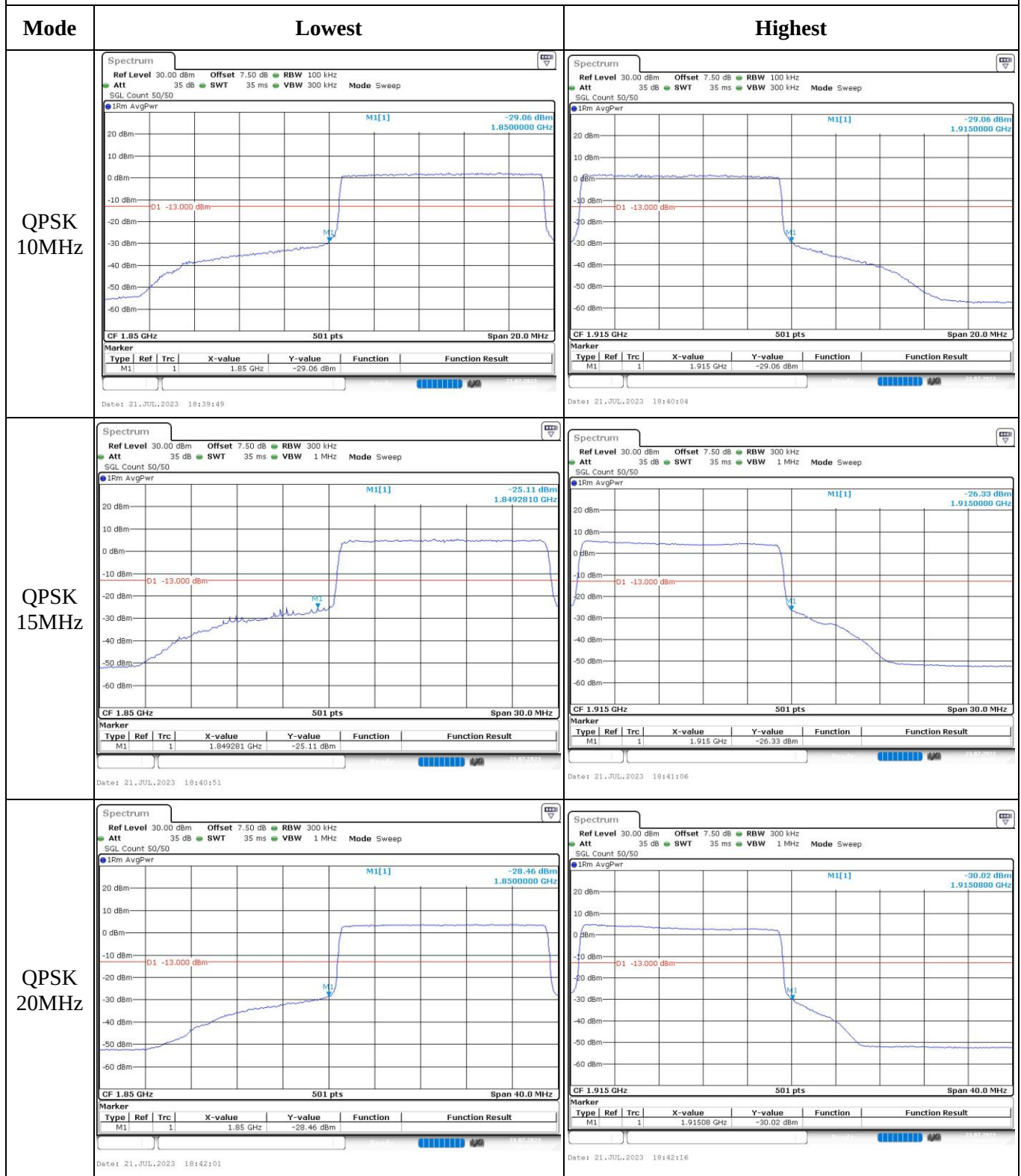
Highest



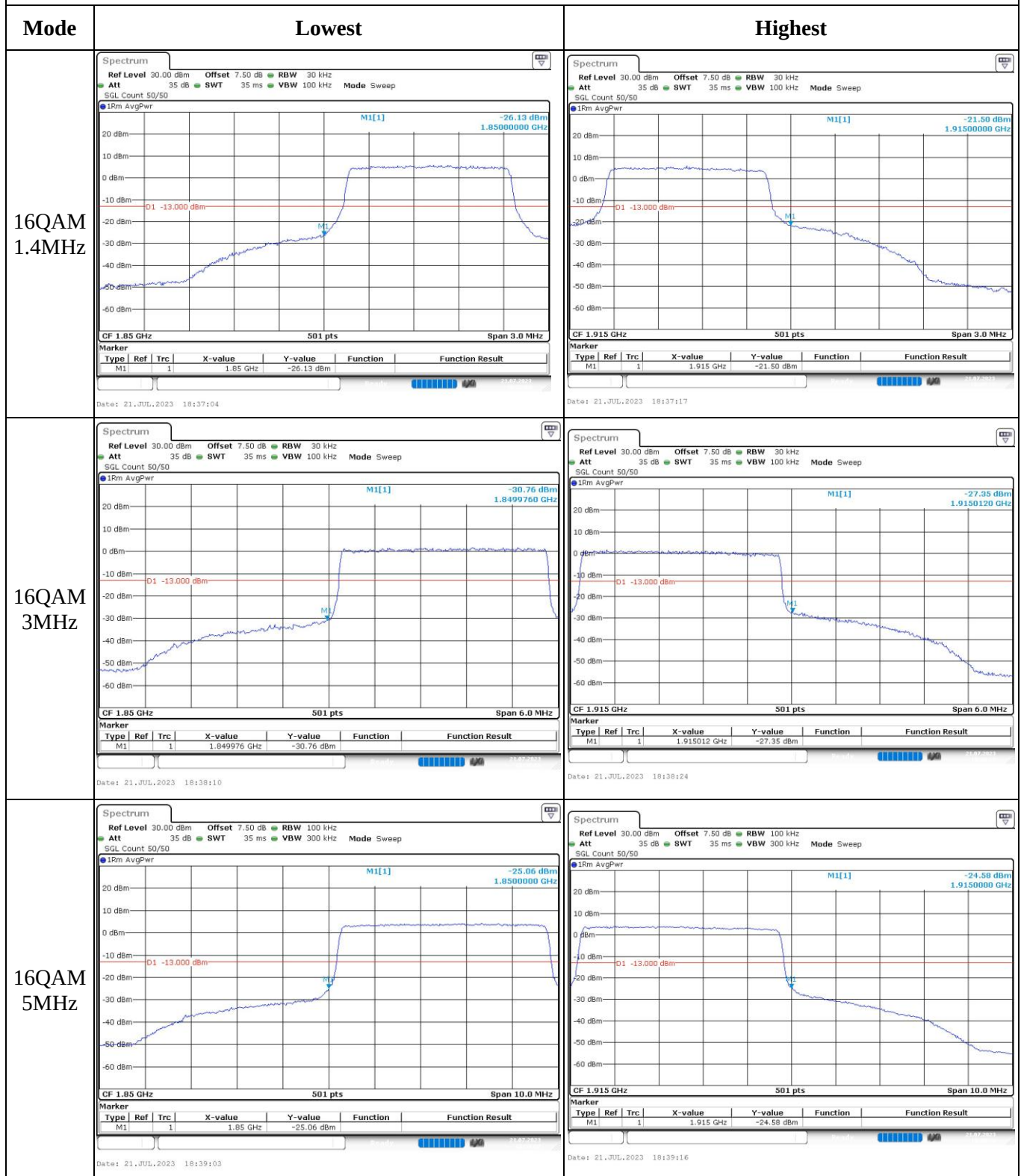
Out of band emission, Band Edge



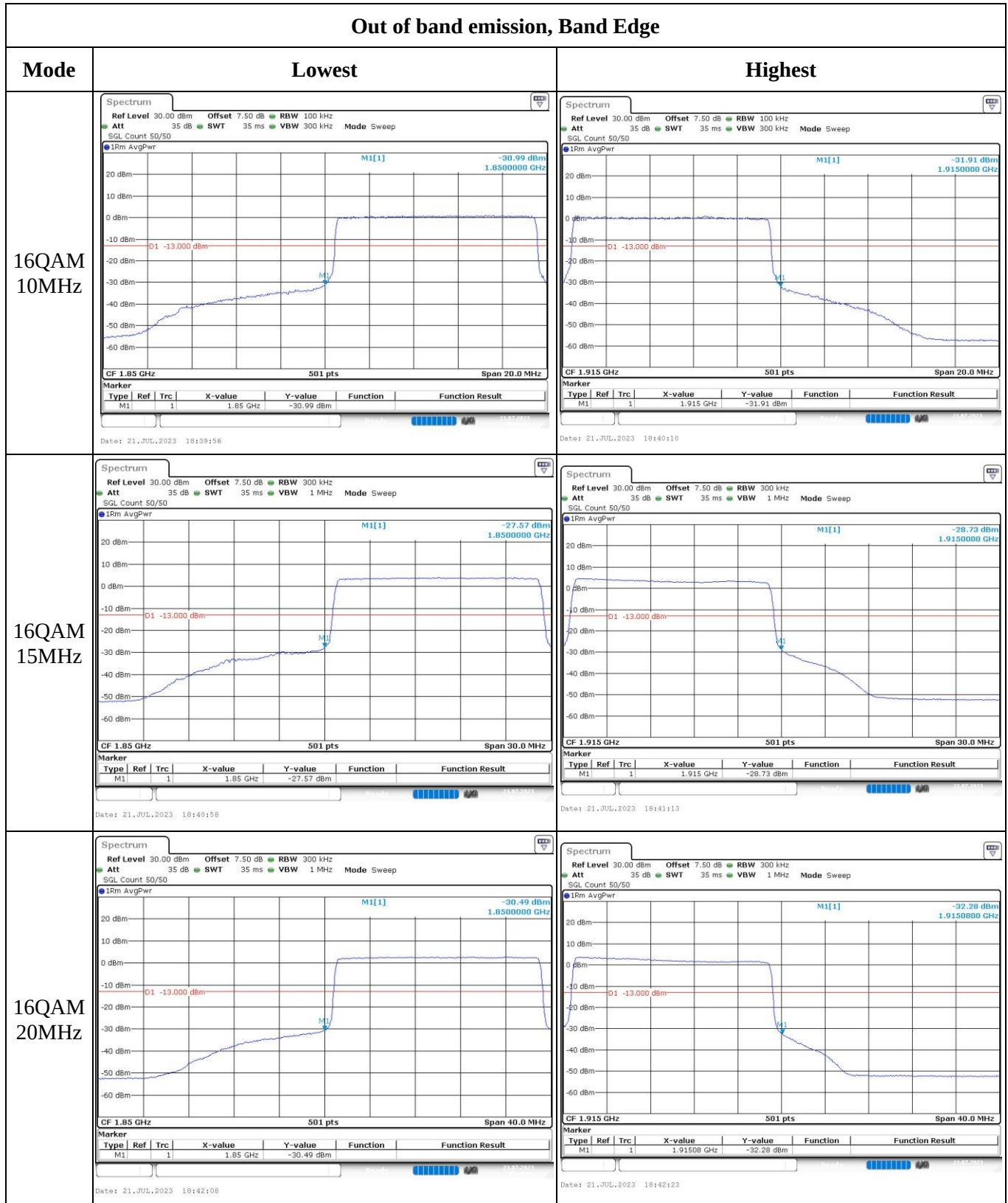
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.14 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	287E_1	Test Date:	2023/7/17~2023/8/25
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature : (°C)	25.8~27.2	Relative Humidity: (%)	46~55	ATM Pressure: (kPa)	99.1~100.3
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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	2023/7/15	2024/7/14
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	149218	2023/7/15	2024/7/14
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 For 90S (MHz)	Highest Frequency For 90S (MHz)	Channel Cross 90S and 22H	Lowest Frequency For 22H (MHz)	Middle Frequency For 22H (MHz)	Highest Frequency For 22H (MHz)
1.4MHz	814.7	823.3	824	824.7	831.5	848.3
3MHz	815.5	822.5	824	825.5	831.5	847.5
5MHz	816.5	821.5	824	826.5	831.5	846.5
10MHz	819	/	824	829	831.5	844
15MHz	821.5	/	824	831.5	836.5	841.5