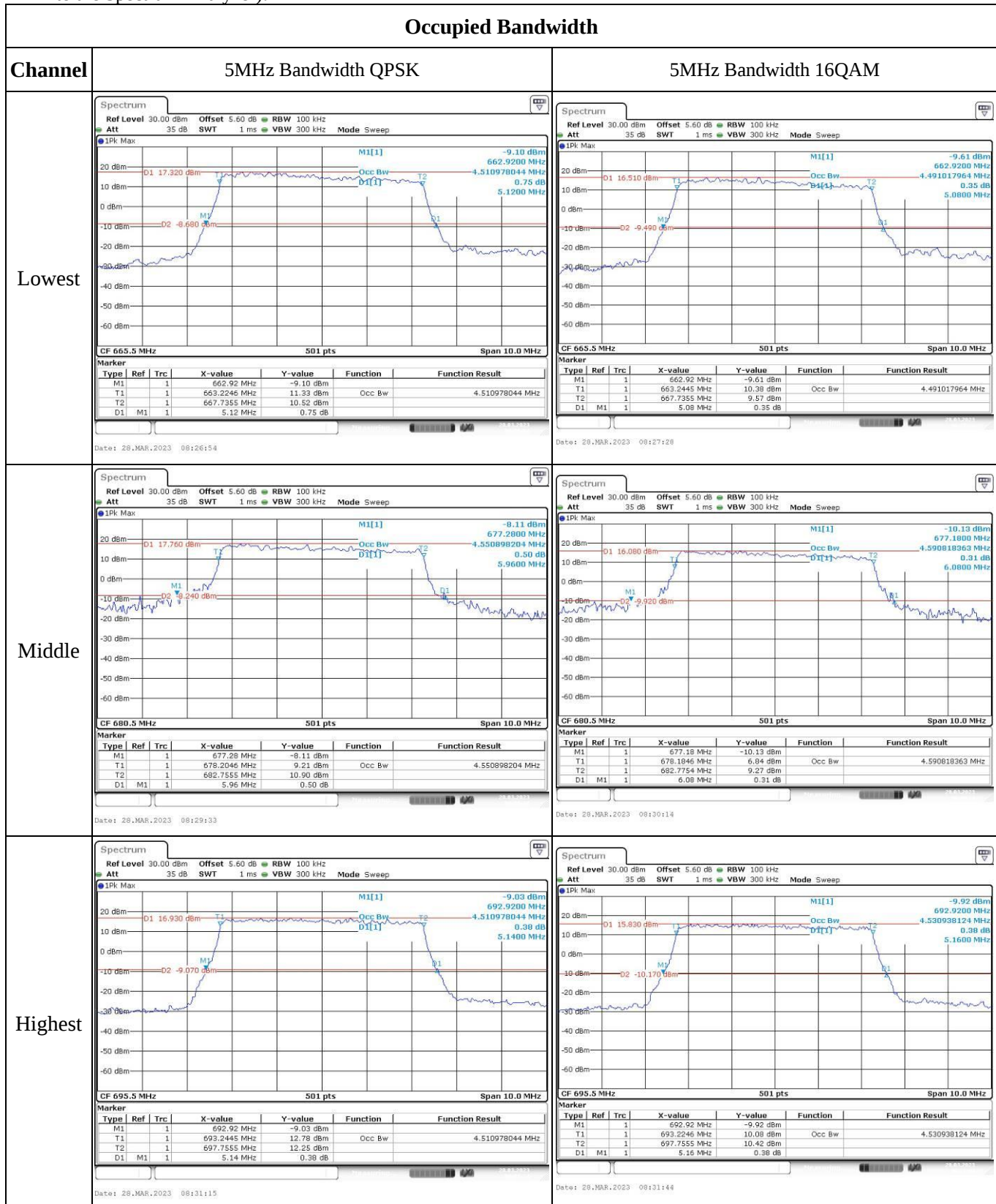


Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):



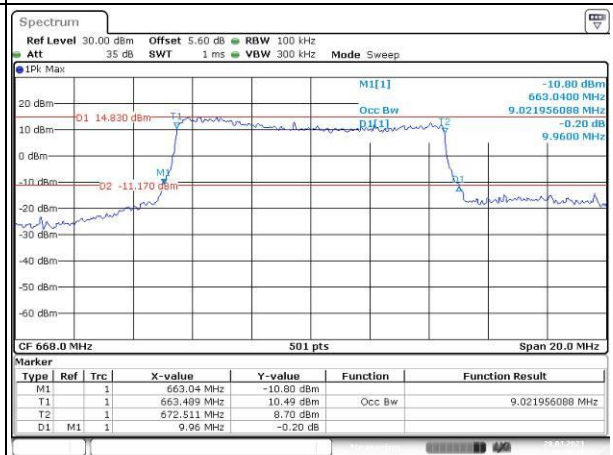
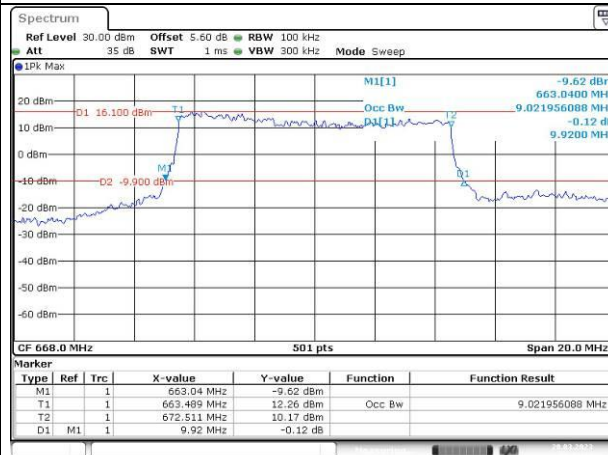
Occupied Bandwidth

Channel

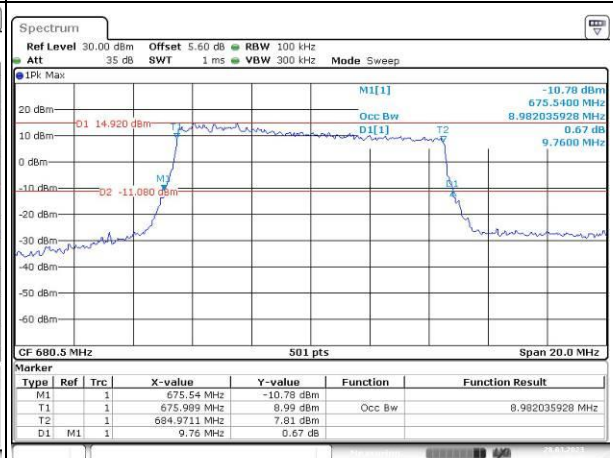
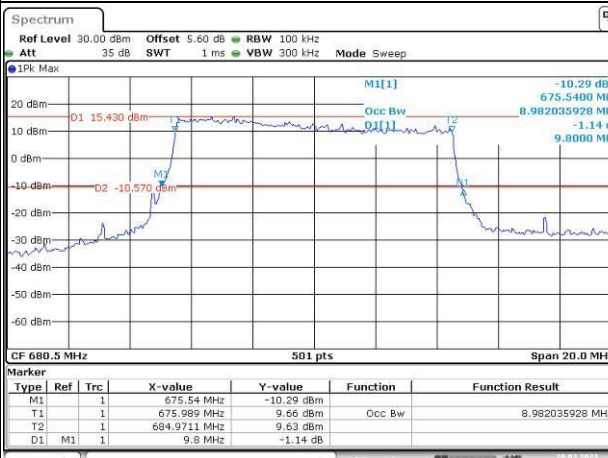
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

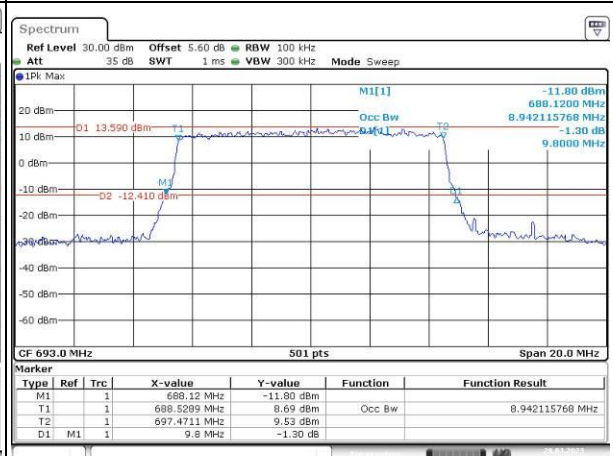
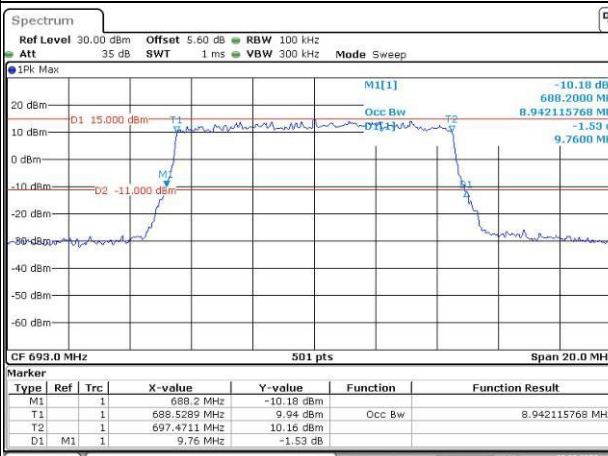
Lowest



Middle



Highest



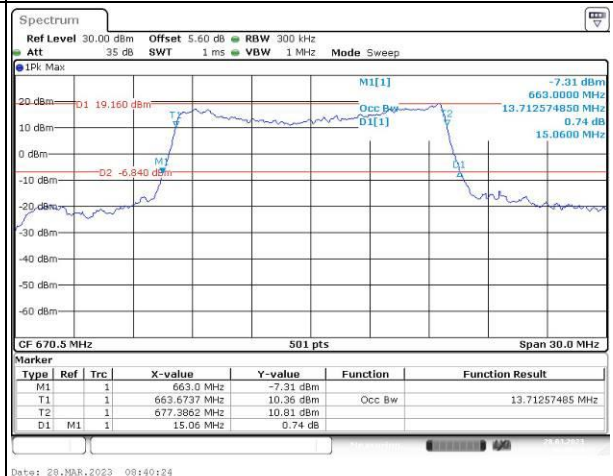
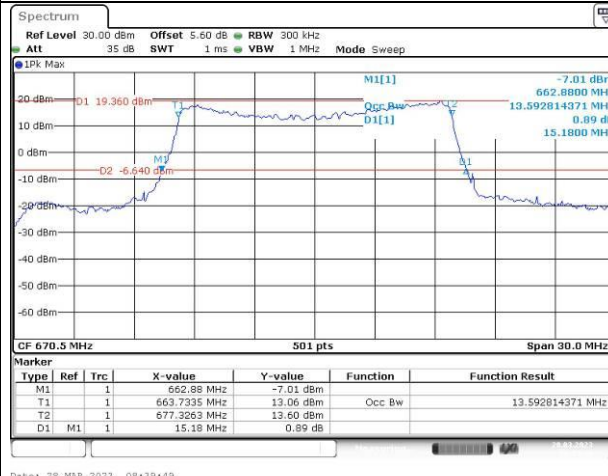
Occupied Bandwidth

Channel

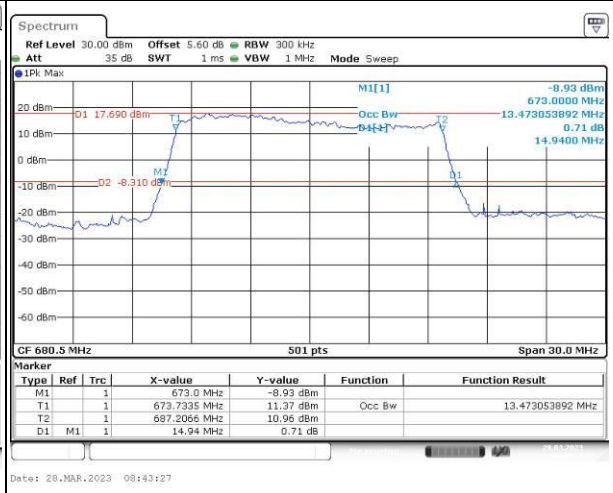
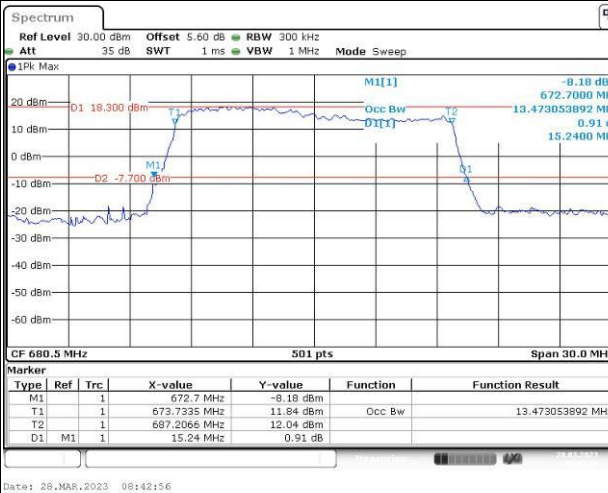
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

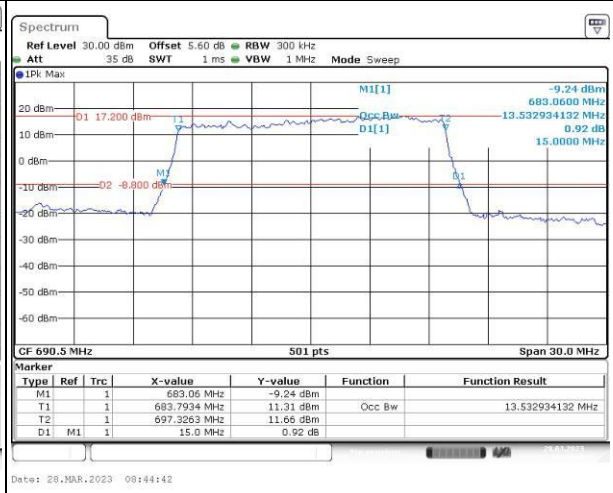
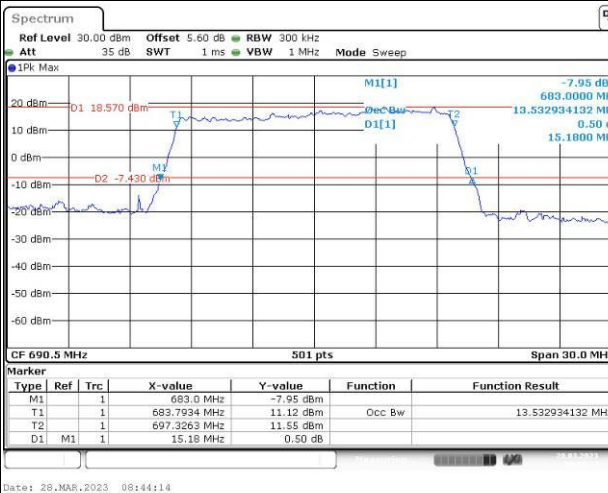
Lowest



Middle



Highest



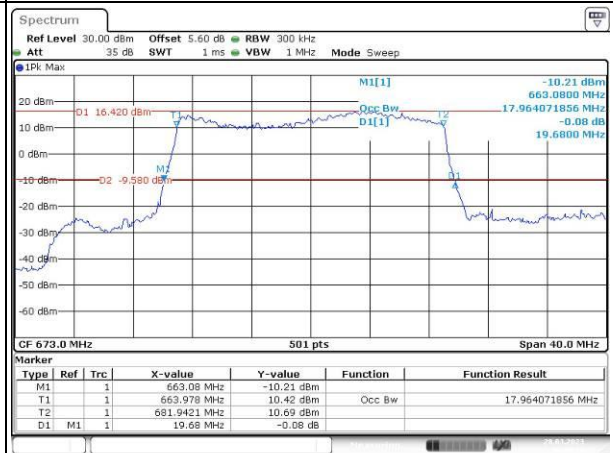
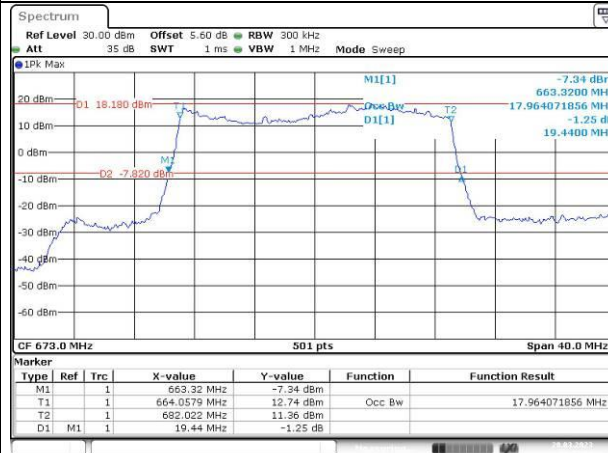
Occupied Bandwidth

Channel

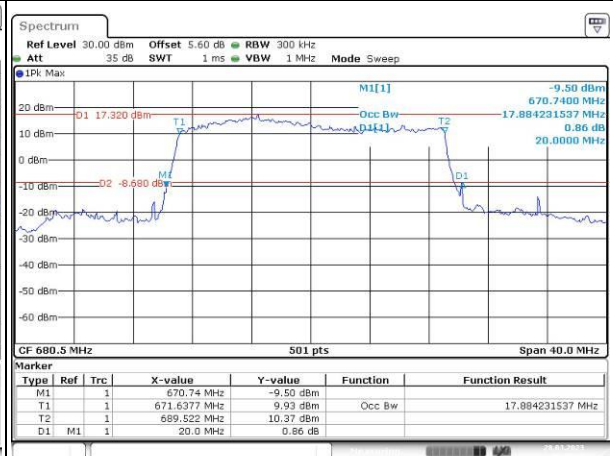
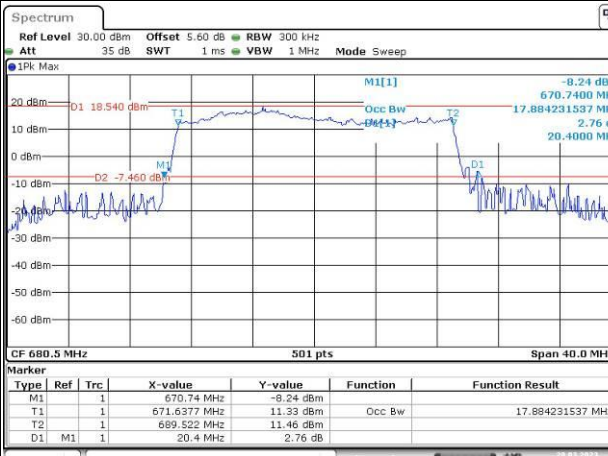
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

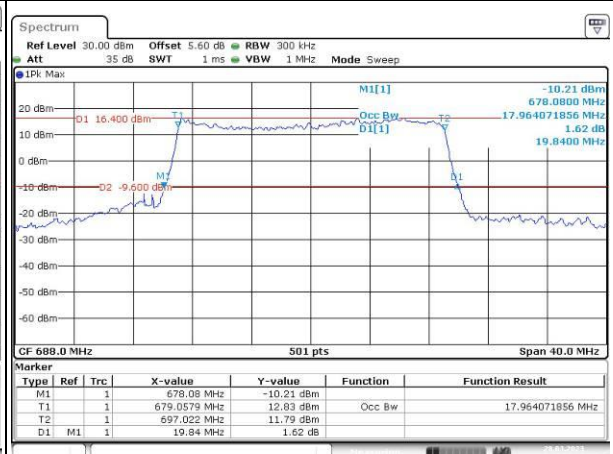
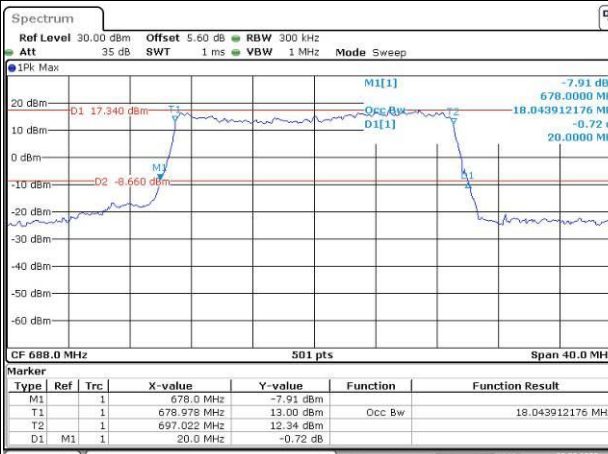
Lowest



Middle



Highest

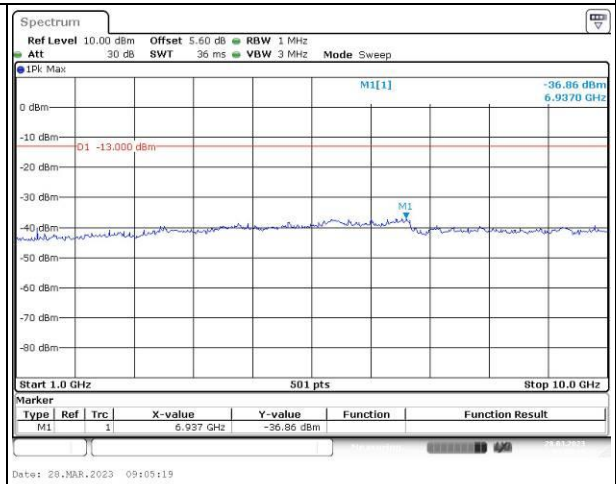
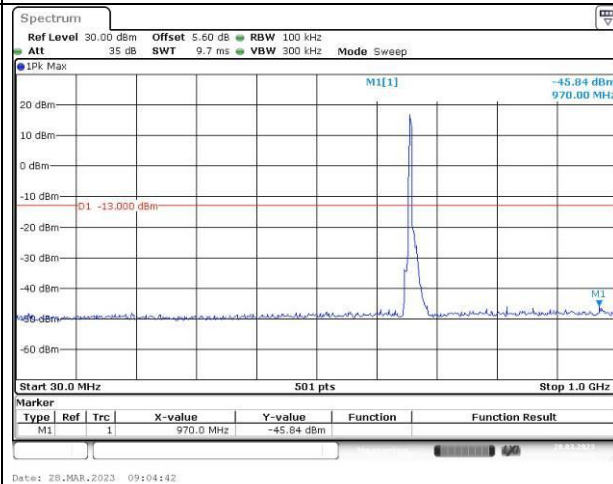


Spurious Emissions at Antenna Terminal

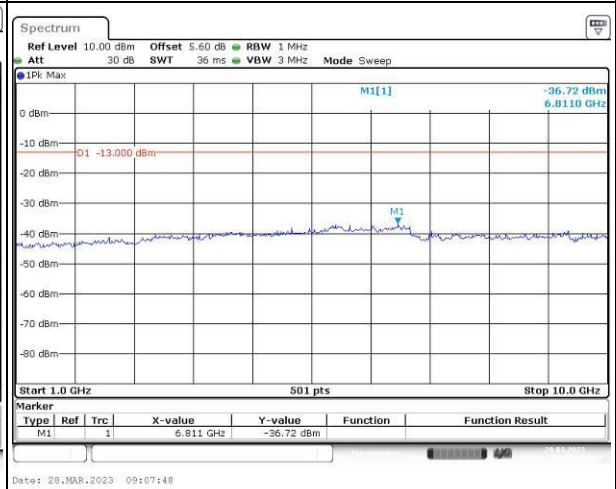
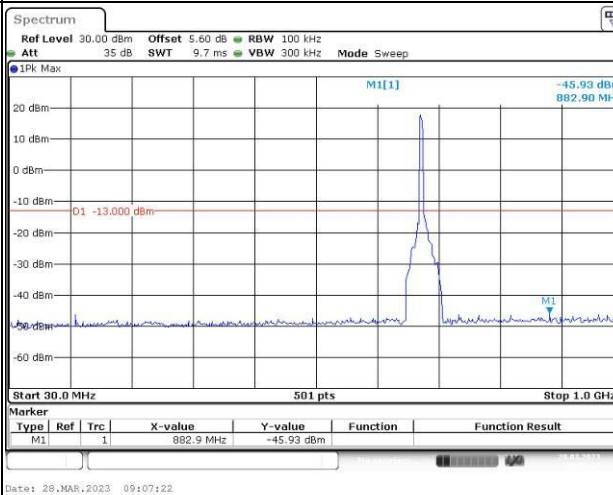
Channel

5MHz Bandwidth QPSK

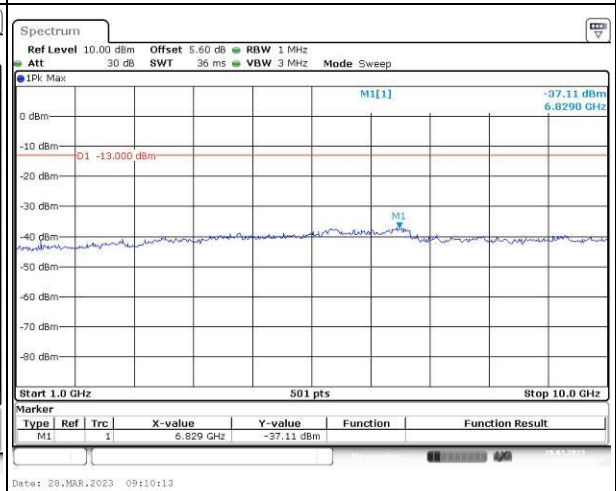
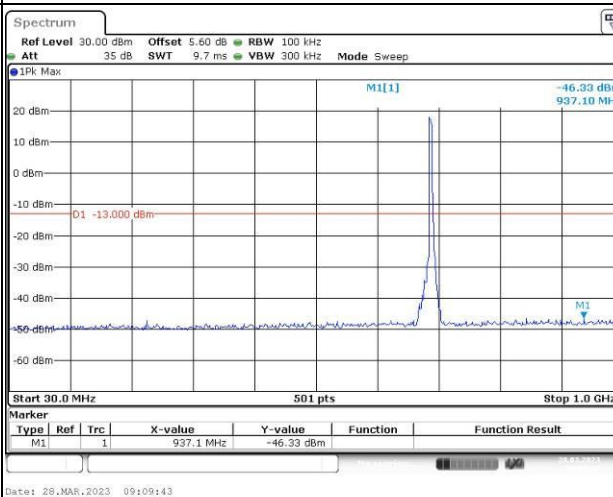
Lowest



Middle



Highest

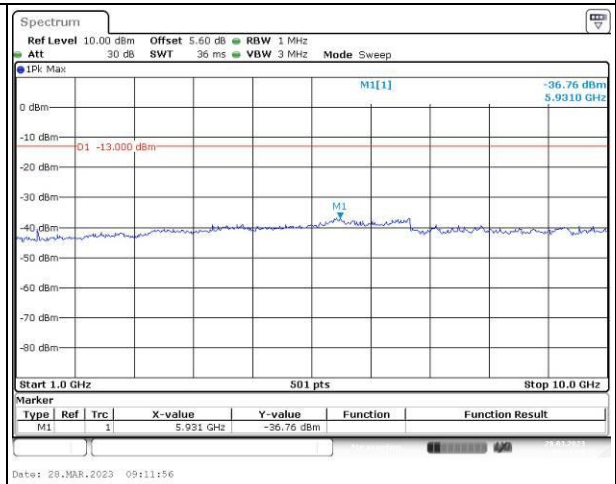
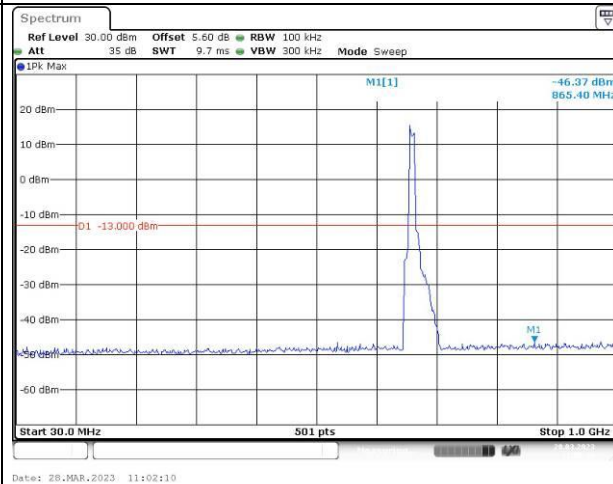


Spurious Emissions at Antenna Terminal

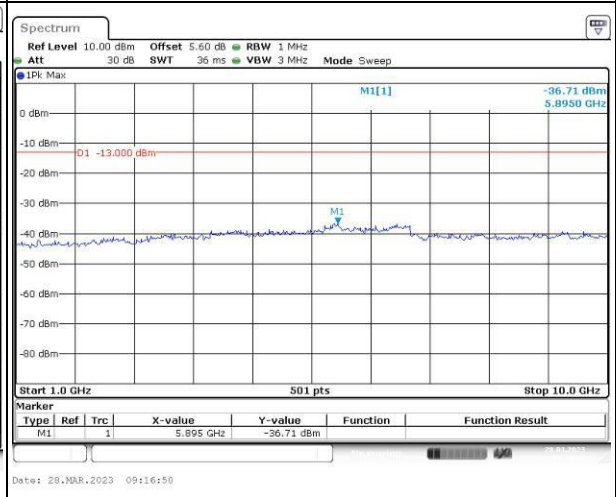
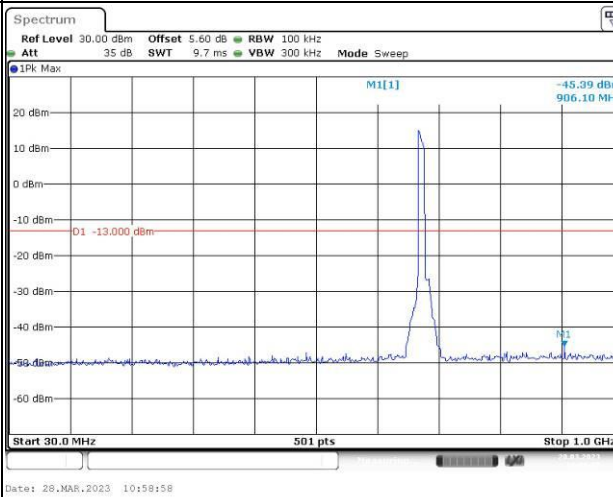
Channel

10MHz Bandwidth QPSK

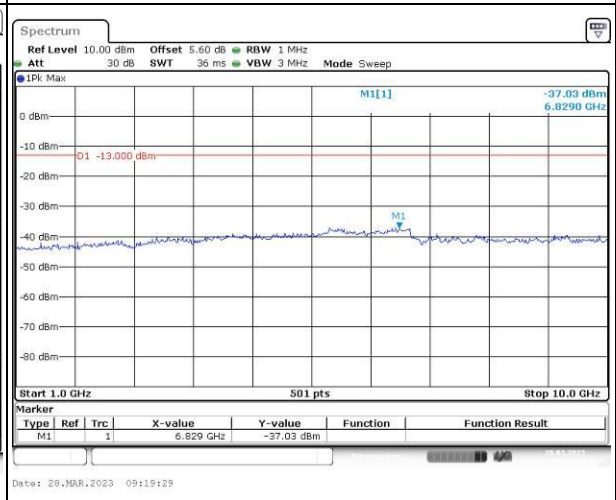
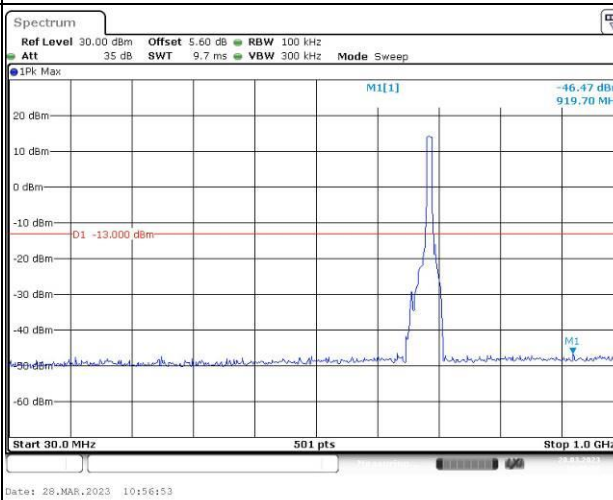
Lowest



Middle



Highest

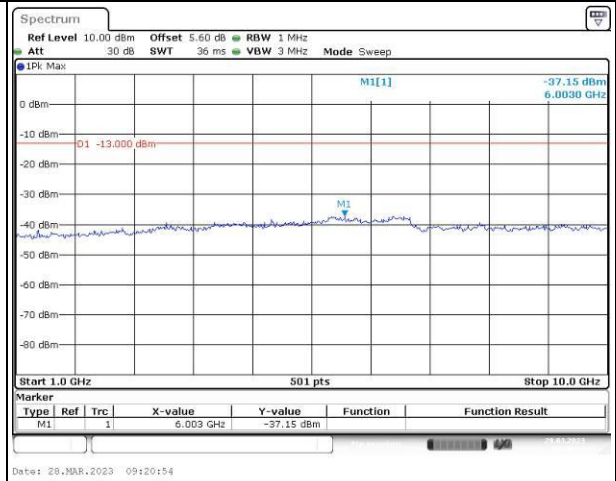
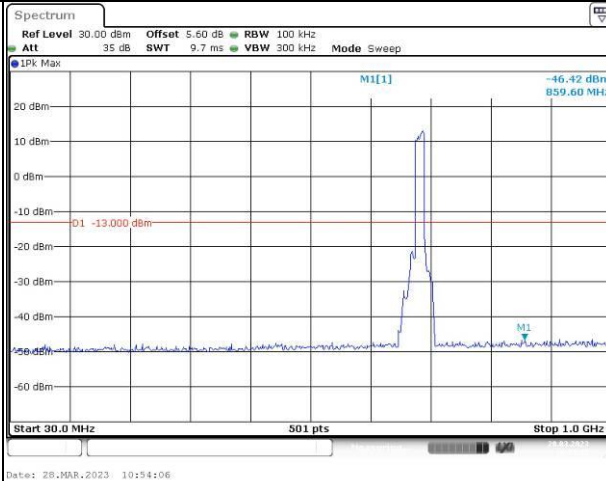


Spurious Emissions at Antenna Terminal

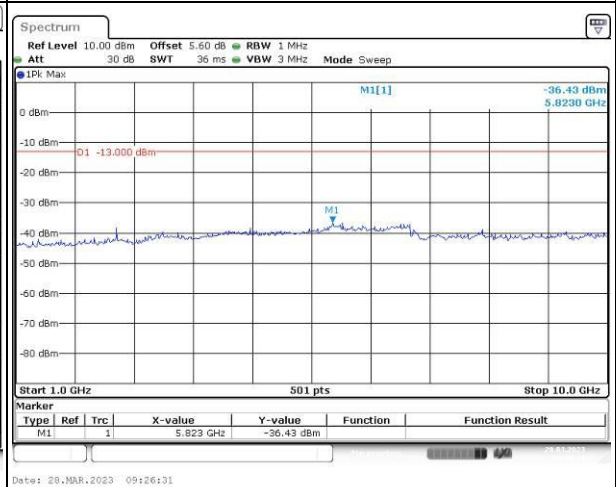
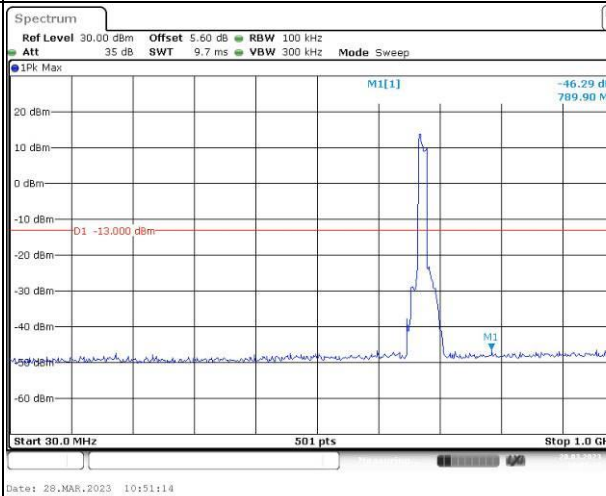
Channel

15MHz Bandwidth QPSK

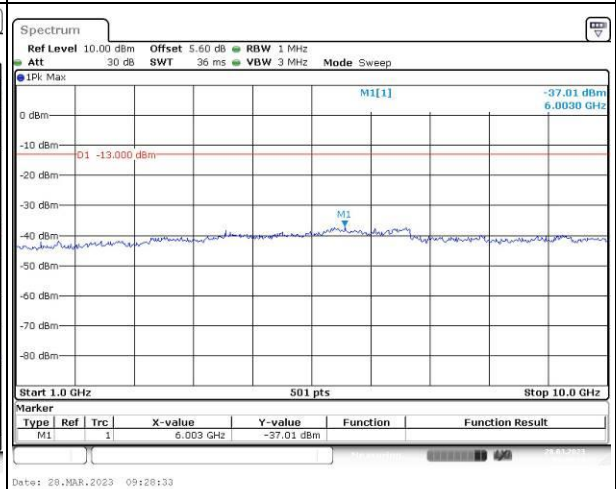
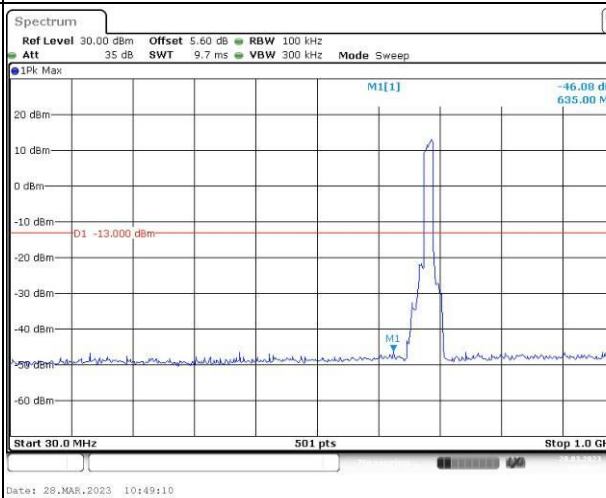
Lowest



Middle



Highest

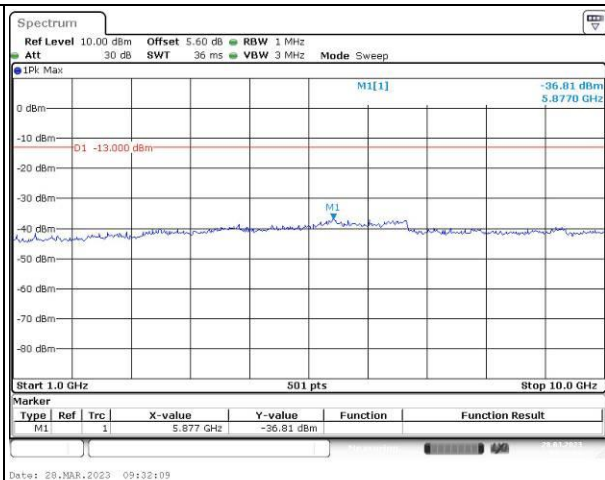
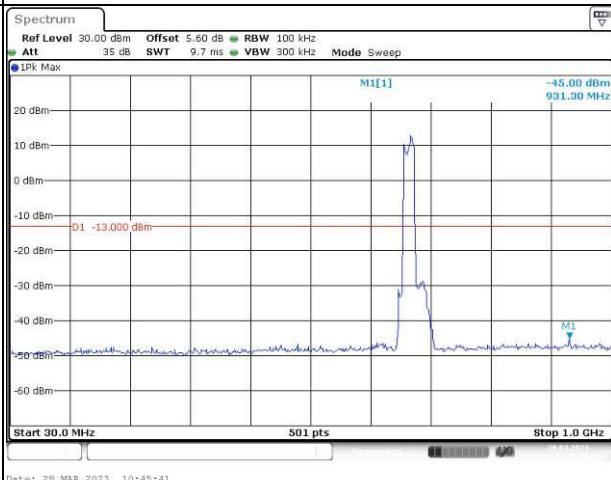


Spurious Emissions at Antenna Terminal

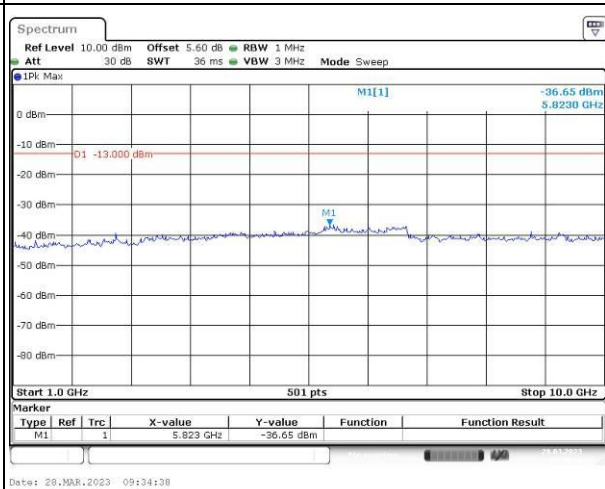
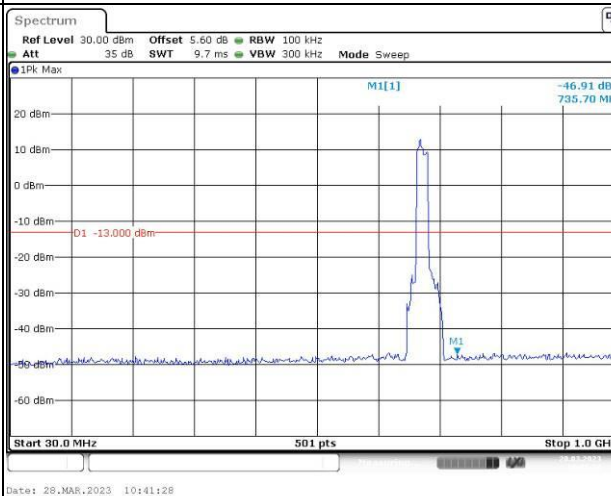
Channel

20MHz Bandwidth QPSK

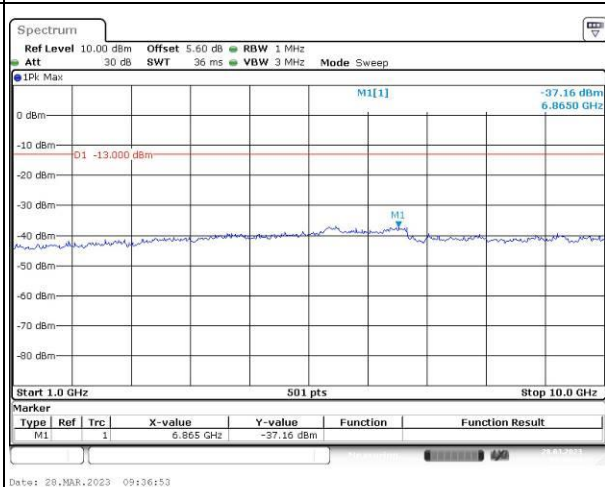
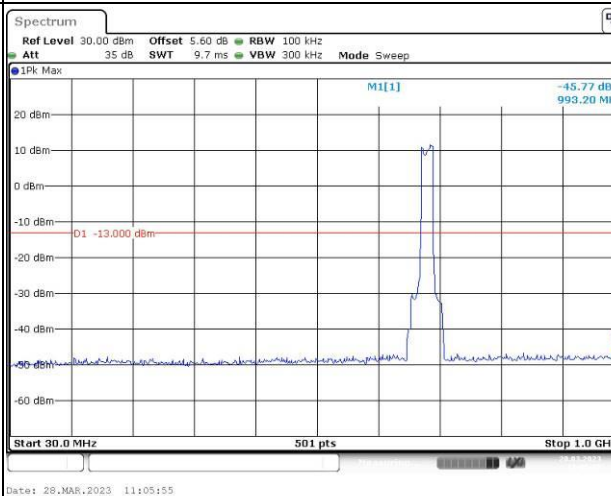
Lowest



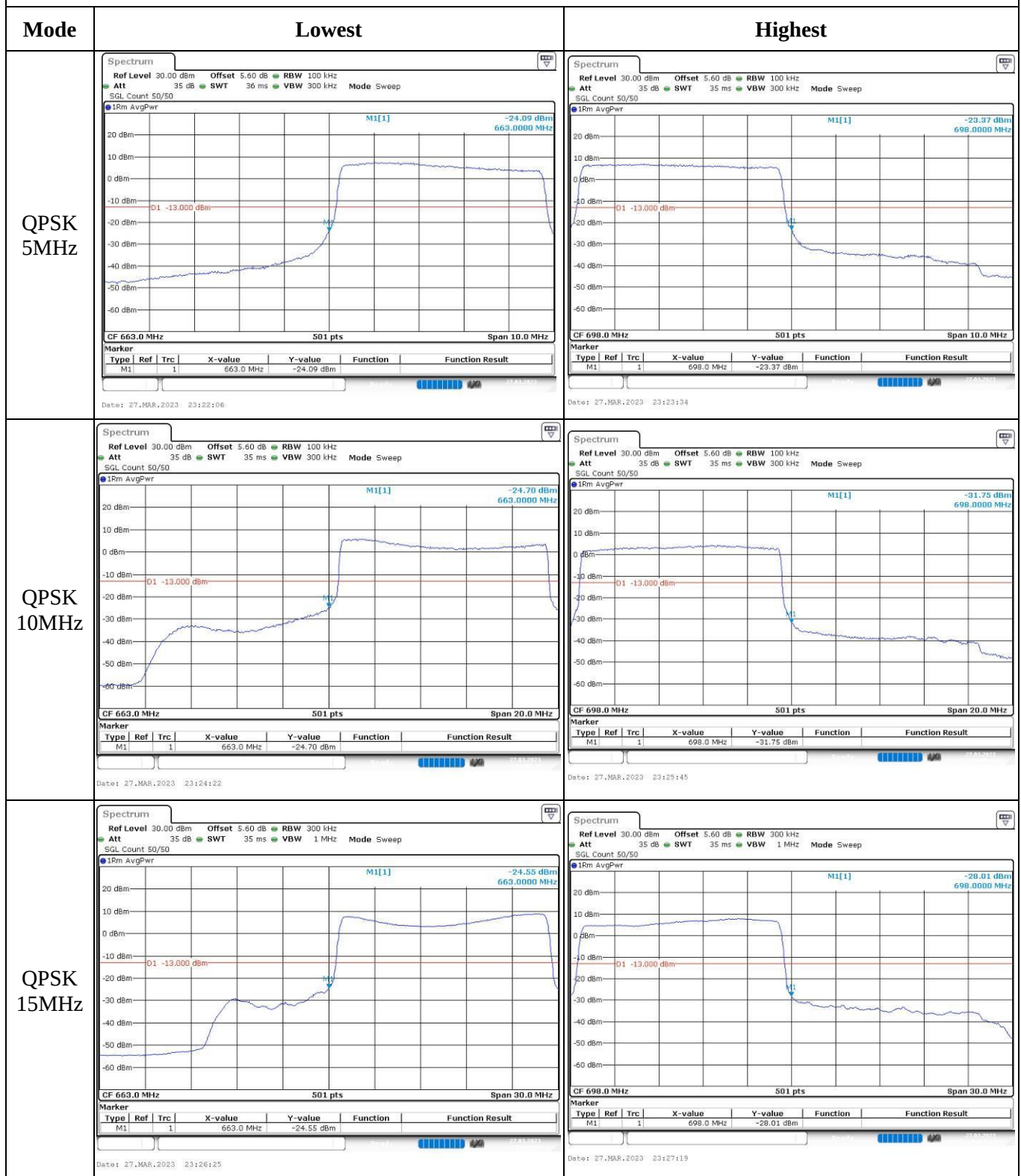
Middle



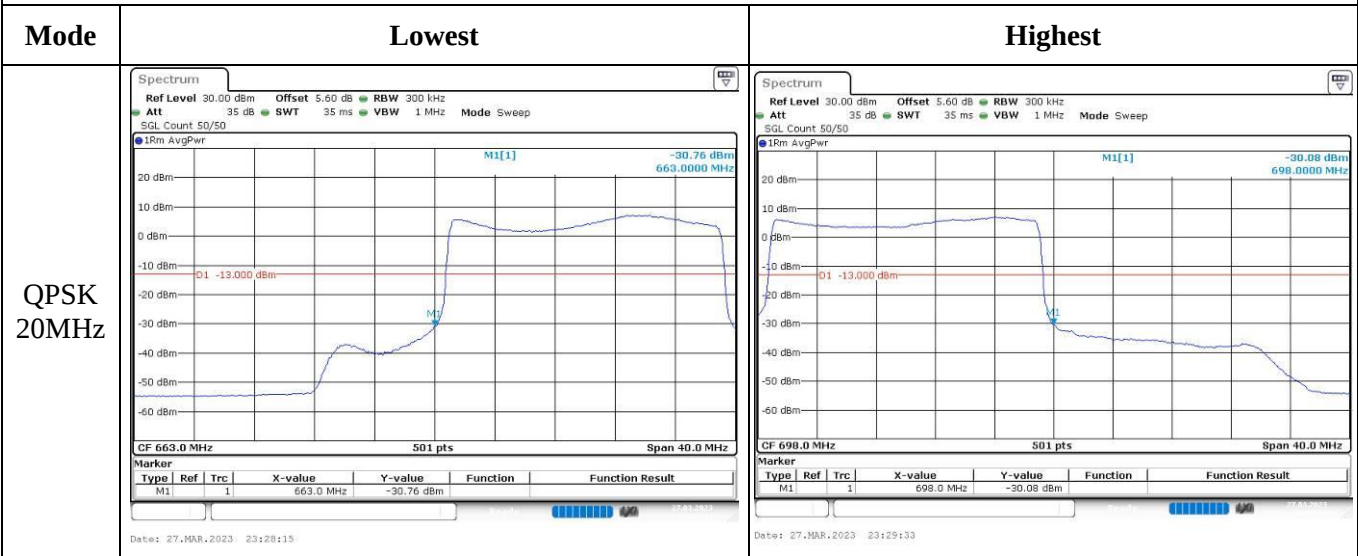
Highest



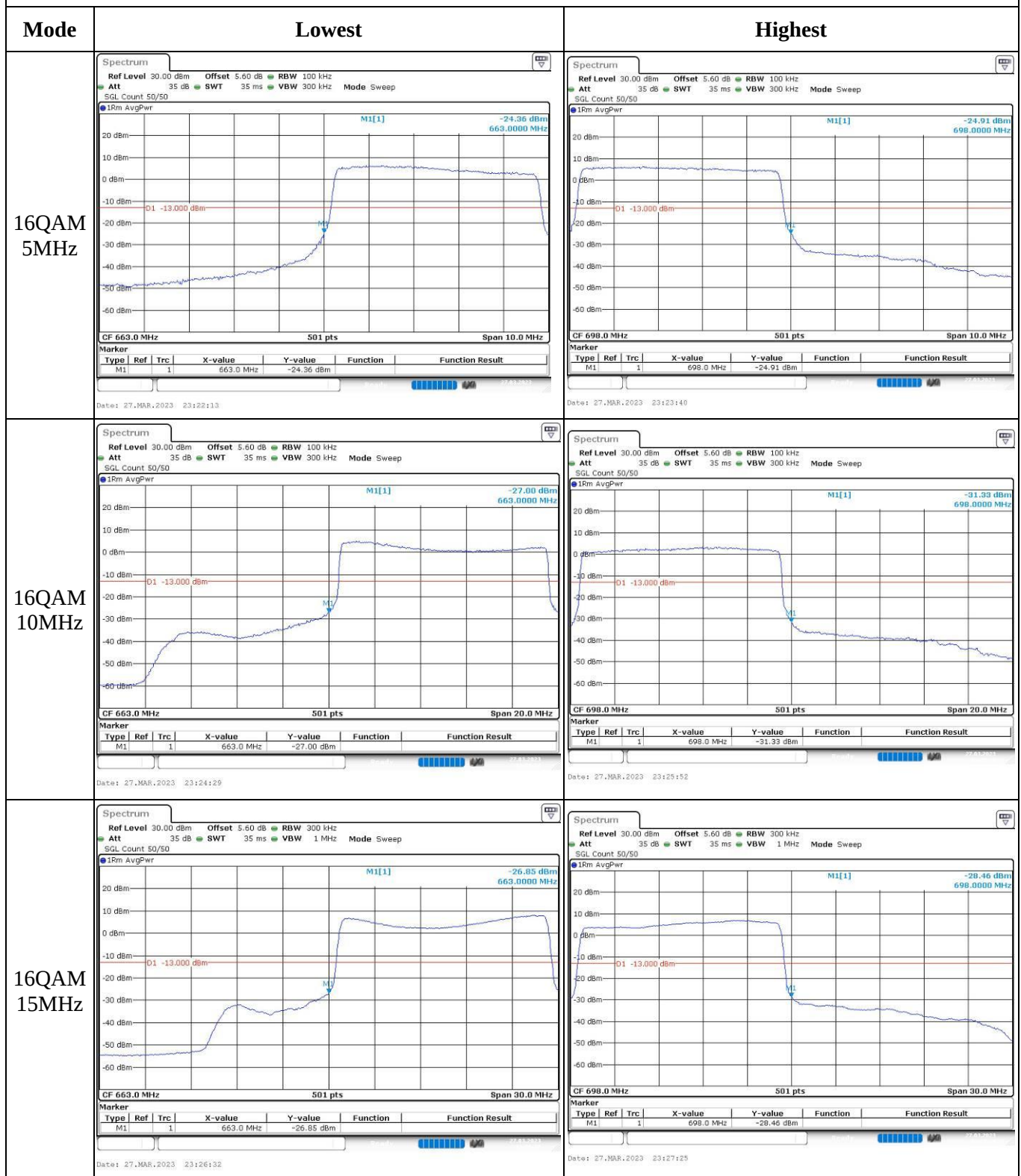
Out of band emission, Band Edge



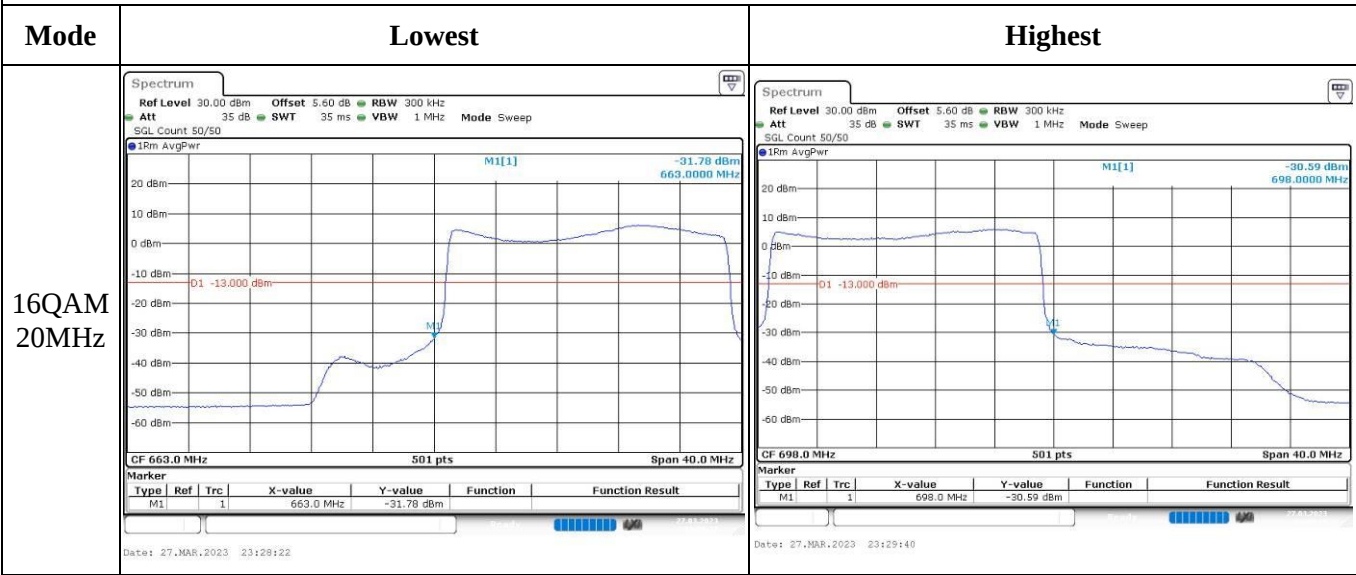
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.18 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	2205	Test Date:	2023/3/22~2023/5/15
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1~25.3	Relative Humidity: (%)	41~56	ATM Pressure: (kPa)	100.1~101.6
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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	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
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 For 90S (MHz)	Highest Frequency For 90S (MHz)	Channel Cross Rules 90S and 22H	Lowest Frequency For 22H (MHz)	Middle Frequency For 22H (MHz)	Highest Frequency For 22H (MHz)
1.4MHz	814.7	823.3	824.0	824.7	831.5	848.3
3MHz	815.5	822.5	824.0	825.5	831.5	847.5
5MHz	816.5	821.5	824.0	826.5	831.5	846.5
10MHz	819	/	824.0	829	831.5	844
15MHz	821.5	/	824.0	831.5	836.5	841.5

Note: 15MHz bandwidth 821.5MHz cross Rules 90S and 22H

Test Data:**FCC §2.1046; § 22.913 (a), § 90.635****RF Output Power:**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power (dBm)						Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel For 90S	Highest Channel For 90S	Cross Channel	Lowest Channel For 22H	Middle Channel For 22H	Highest Channel For 22H		
1.4MHz QPSK	RB1#0	22.62	22.36	22.31	22.44	22.53	22.42	20.1	38.45
	RB1#3	22.74	22.41	22.65	22.51	22.67	22.53		
	RB1#5	22.62	22.45	22.52	22.19	22.52	22.4		
	RB3#0	22.74	22.45	22.65	22.47	22.55	22.48		
	RB3#3	22.77	22.68	22.71	22.69	22.58	22.48		
	RB6#0	21.67	21.36	21.22	21.36	21.56	21.46		
1.4MHz 16QAM	RB1#0	21.78	21.69	21.58	21.69	21.49	21.36	19.31	38.45
	RB1#3	21.98	21.87	21.69	21.88	21.69	21.64		
	RB1#5	21.81	21.78	21.69	21.57	21.51	21.42		
	RB3#0	21.8	21.66	21.74	21.47	21.64	21.69		
	RB3#3	21.82	21.78	21.49	21.55	21.63	21.71		
	RB6#0	20.72	20.47	20.69	20.48	20.51	20.47		
3MHz QPSK	RB1#0	22.65	22.59	22.47	22.61	22.58	22.51	20	38.45
	RB1#8	22.64	22.48	22.54	22.47	22.54	22.44		
	RB1#14	22.67	22.47	22.39	22.51	22.55	22.44		
	RB6#0	21.49	21.39	21.22	21.45	21.54	21.44		
	RB6#9	21.6	21.56	21.45	21.61	21.55	21.41		
	RB15#0	21.7	21.44	21.36	21.56	21.57	21.51		
3MHz 16QAM	RB1#0	21.75	21.39	21.48	21.44	22.11	21.58	19.44	38.45
	RB1#8	21.7	21.66	21.58	21.47	22.05	21.62		
	RB1#14	21.64	21.69	21.69	21.87	22.03	21.64		
	RB6#0	20.58	20.48	20.44	20.51	20.57	20.45		
	RB6#9	20.58	20.44	20.69	20.28	20.56	20.5		
	RB15#0	20.77	20.47	20.18	20.66	20.62	20.39		
5MHz QPSK	RB1#0	22.59	22.45	22.44	22.48	22.46	22.4	20.02	38.45
	RB1#13	22.69	22.61	22.58	22.47	22.61	22.51		
	RB1#24	22.67	22.47	22.36	22.18	22.5	22.42		
	RB15#0	21.53	21.44	21.36	21.48	21.54	21.56		
	RB15#10	21.71	21.09	21.69	21.45	21.51	21.42		
	RB25#0	21.63	21.44	21.69	21.74	21.5	21.47		
5MHz 16QAM	RB1#0	21.67	21.64	21.68	21.47	21.39	21.64	19.08	38.45
	RB1#13	21.72	21.33	21.36	21.37	21.41	21.75		
	RB1#24	21.62	21.48	21.45	21.39	21.31	21.67		
	RB15#0	20.6	20.14	20.36	20.66	20.57	20.53		
	RB15#10	20.69	20.41	20.14	20.52	20.56	20.4		
	RB25#0	20.61	20.41	20.36	20.54	20.56	20.44		

10MHz QPSK	RB1#0	22.62	/	22.36	22.47	22.51	22.49	20.28	38.45
	RB1#25	22.95	/	22.63	22.48	22.7	22.72		
	RB1#49	22.66	/	22.36	22.49	22.55	22.48		
	RB25#0	21.63	/	21.47	21.42	21.54	21.52		
	RB25#25	21.63	/	21.66	21.05	21.54	21.43		
	RB50#0	21.6	/	21.47	21.11	21.59	21.48		
10MHz 16QAM	RB1#0	21.71	/	21.69	21.58	22.18	21.63	19.64	38.45
	RB1#25	21.81	/	21.72	21.33	22.31	21.75		
	RB1#49	21.68	/	21.64	21.55	22.05	21.66		
	RB25#0	20.66	/	20.69	20.18	20.58	20.6		
	RB25#25	20.68	/	20.47	20.47	20.58	20.38		
	RB50#0	20.61	/	20.45	20.47	20.57	20.46		
15MHz QPSK	RB1#0	22.55	/	22.49	22.62	22.47	22.44	20.02	38.45
	RB1#38	22.69	/	22.14	22.63	22.5	22.49		
	RB1#74	22.57	/	22.35	22.45	22.47	22.42		
	RB36#0	21.68	/	21.24	21.14	21.5	21.56		
	RB36#39	21.73	/	21.16	21.45	21.59	21.5		
	RB75#0	21.76	/	21.41	21.36	21.57	21.57		
15MHz 16QAM	RB1#0	22.03	/	22.01	22.03	22.1	21.52	19.43	38.45
	RB1#38	21.96	/	21.92	21.89	22.09	21.67		
	RB1#74	22.01	/	21.74	21.89	22.06	21.56		
	RB36#0	20.59	/	20.55	20.49	20.52	20.64		
	RB36#39	20.76	/	20.52	20.66	20.56	20.52		
	RB75#0	20.65	/	20.45	20.14	20.53	20.57		

Note:

ERP= Conducted Power(dBm) - L_c(dB) + G_T(dBd)G_T(dBd)=G_T(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 For 22H	Middle Channel For 22H	Highest Channel For 22H	
15MHz QPSK	RB1#0	4.46	4.72	4.52	13
	RB75#0	4.9	4.93	4.96	13
15MHz 16QAM	RB1#0	5.45	5.48	5.42	13
	RB75#0	5.91	5.94	6.06	13
				Result:	Pass

FCC §2.1049, §22.905, §90.209:Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)						26 dB Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.102	1.102	1.102	1.102	1.096	1.102	1.308	1.291	1.309	1.312	1.308	1.29
1.4MHz 16QAM	1.102	1.102	1.096	1.102	1.09	1.102	1.332	1.297	1.291	1.330	1.284	1.296
3MHz QPSK	2.671	2.683	2.695	2.671	2.683	2.683	2.880	2.898	2.874	2.880	2.868	2.868
3MHz 16QAM	2.671	2.683	2.683	2.671	2.683	2.683	2.868	2.898	2.874	2.892	2.88	2.88
5MHz QPSK	4.491	4.491	4.491	4.511	4.531	4.531	5.120	4.980	4.955	4.930	5.2	5.22
5MHz 16QAM	4.531	4.531	4.531	4.491	4.511	4.551	5.180	4.980	5.135	4.950	5.14	5.2
10MHz QPSK	8.942	/	8.942	8.942	8.942	8.942	9.880	/	9.691	9.611	9.96	9.84
10MHz 16QAM	8.942	/	8.942	8.942	8.942	8.942	9.880	/	9.531	9.651	9.84	9.88
15MHz QPSK	13.473	/	13.473	13.533	13.533	13.533	15.060	/	14.85	14.910	15.12	15.3
15MHz 16QAM	13.533	/	13.473	13.533	13.533	13.533	15.060	/	14.731	14.790	15.24	15.12

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

FCC §2.1051, §22.917(a), §90.691:Spurious Emissions at Antenna Terminal

Result: Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, §22.917(a), §90.691:Out of band emission, Band Edge

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

Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	1.45	0.0018	2.5
	-20	3.8	7.99	0.0097	2.5
	-10	3.8	6.69	0.0081	2.5
	0	3.8	7.69	0.0094	2.5
	10	3.8	6.41	0.0078	2.5
	20	3.8	8.1	0.0099	2.5
	30	3.8	4.2	0.0051	2.5
	40	3.8	12	0.0146	2.5
	50	3.8	10	0.0122	2.5
Frequency Stability vs. Voltage	20	3.3	4.6	0.0056	2.5
	20	4.3	3.6	0.0044	2.5
				Result:	Pass

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FCC §2.1055, §22.355: Frequency Stability					
Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	-1.72	-0.002	2.5
	-20	3.8	8.45	0.010	2.5
	-10	3.8	-5.63	-0.007	2.5
	0	3.8	-6.88	-0.008	2.5
	10	3.8	-5.19	-0.006	2.5
	20	3.8	8.05	0.010	2.5
	30	3.8	-7.87	-0.009	2.5
	40	3.8	8.05	0.010	2.5
	50	3.8	-8.4	-0.010	2.5
Frequency Stability vs. Voltage	20	3.3	5.64	0.007	2.5
	20	4.3	-6.56	-0.008	2.5
				Result:	Pass

Test Modulation:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	5.7	0.007	2.5
	-20	3.8	9.12	0.011	2.5
	-10	3.8	-8.55	-0.010	2.5
	0	3.8	7.51	0.009	2.5
	10	3.8	-7.9	-0.010	2.5
	20	3.8	-5.46	-0.007	2.5
	30	3.8	8.4	0.010	2.5
	40	3.8	-7.71	-0.009	2.5
	50	3.8	5.87	0.007	2.5
Frequency Stability vs. Voltage	20	3.3	-7.3	-0.009	2.5
	20	4.3	-9.88	-0.012	2.5
				Result:	Pass

Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

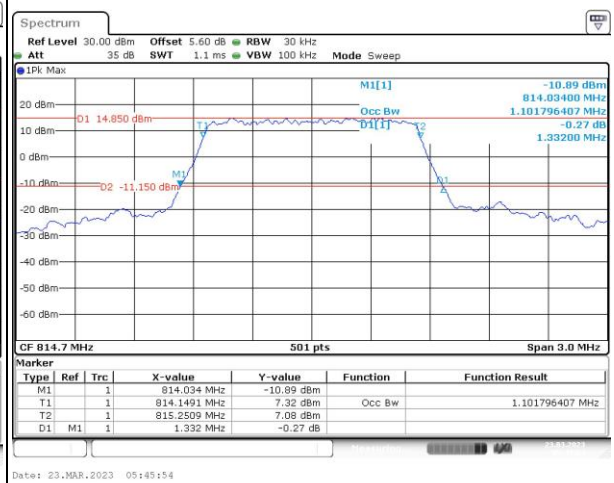
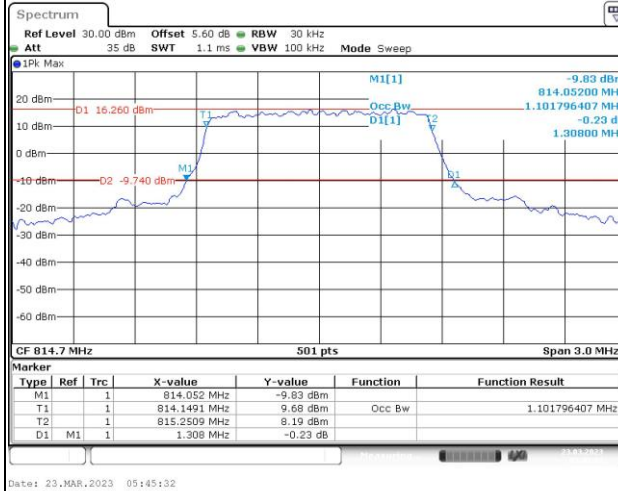
Occupied Bandwidth

Channel

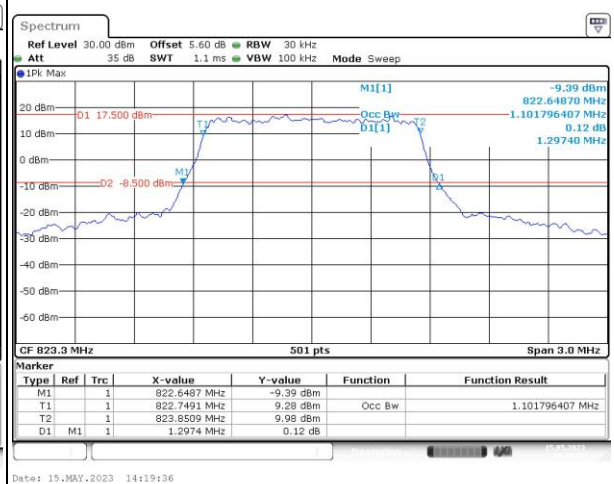
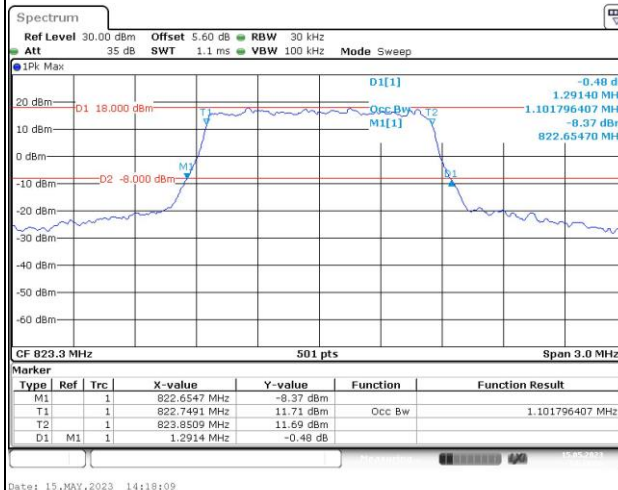
1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

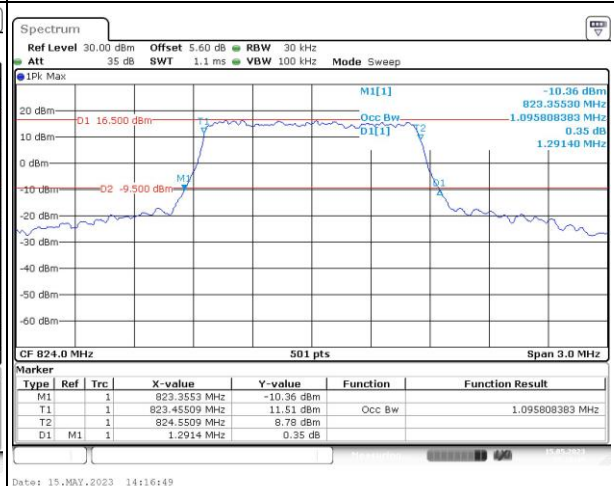
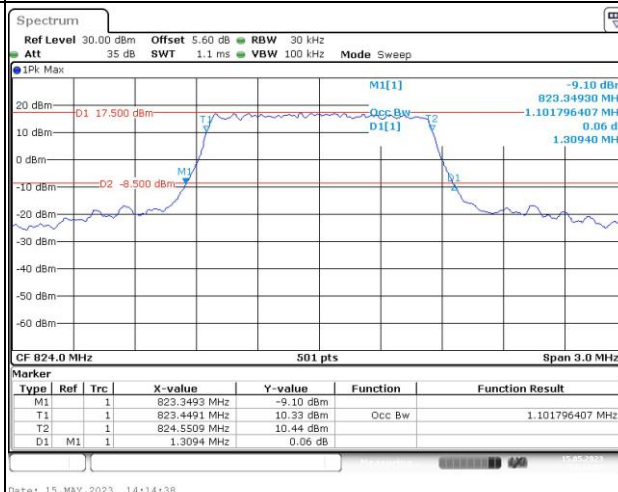
Lowest
For 90S



Highest
For 90S



Cross
Channel

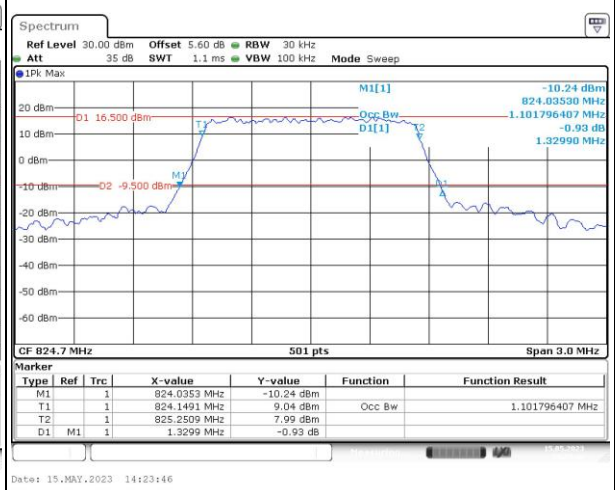
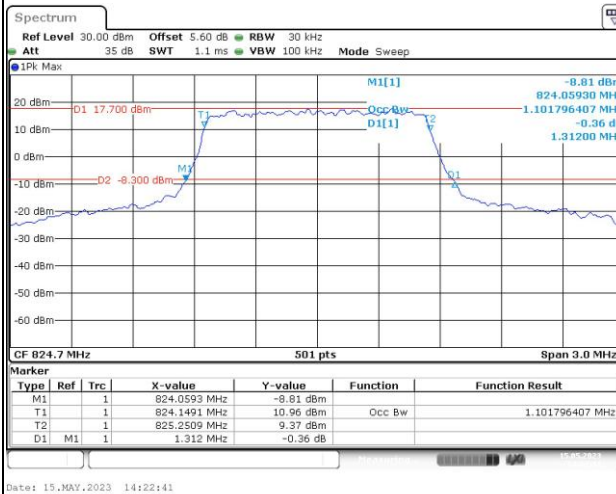
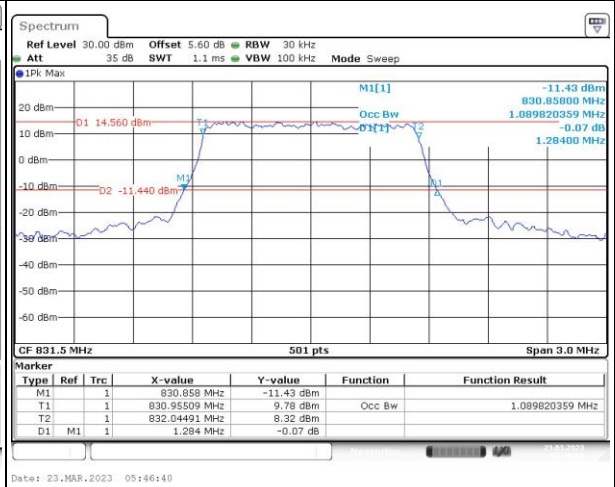
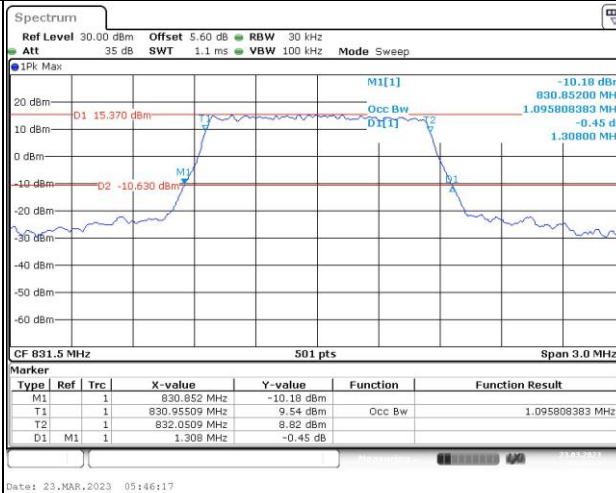
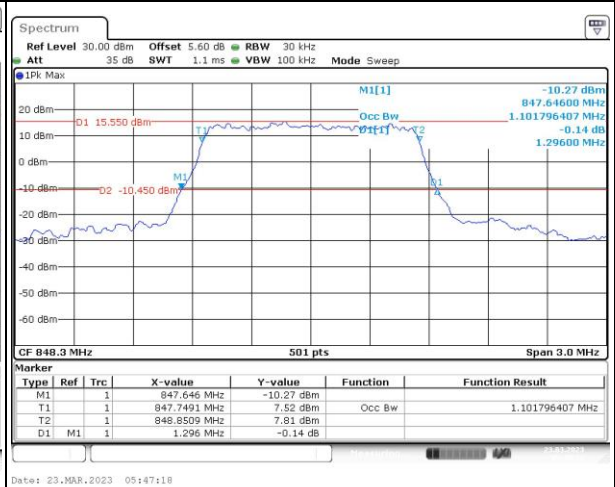
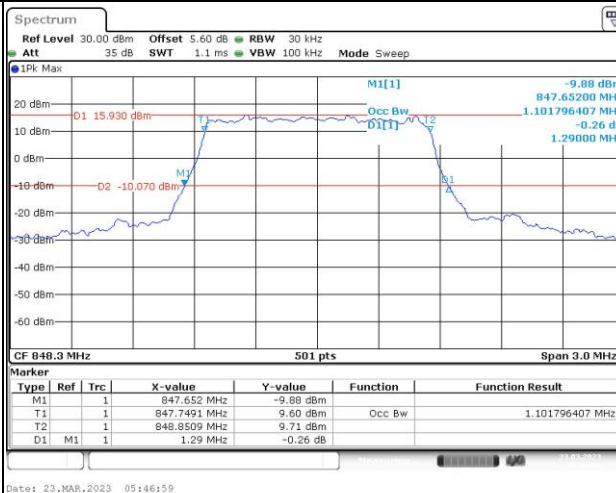


Occupied Bandwidth

Channel

1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

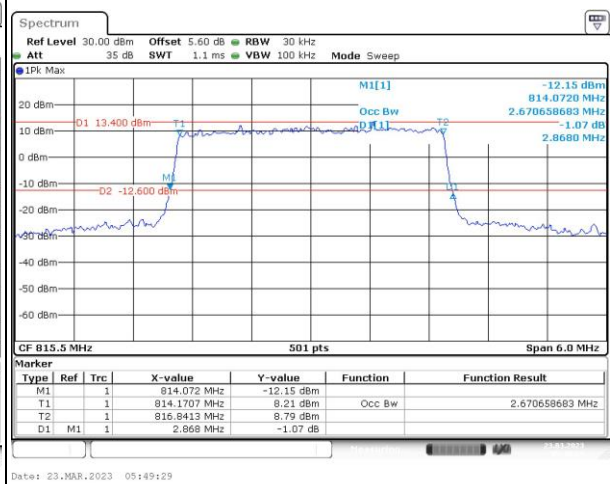
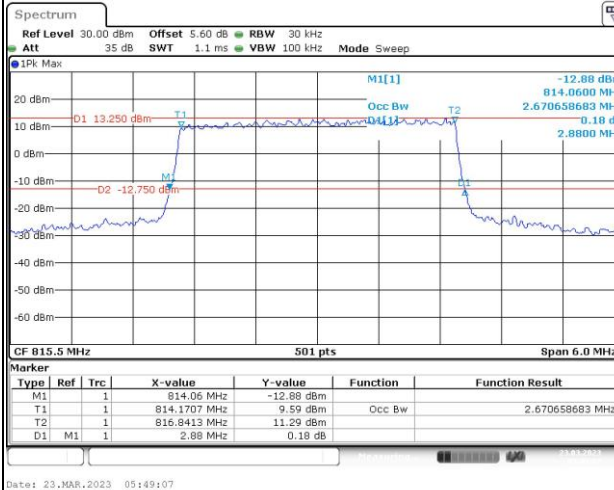
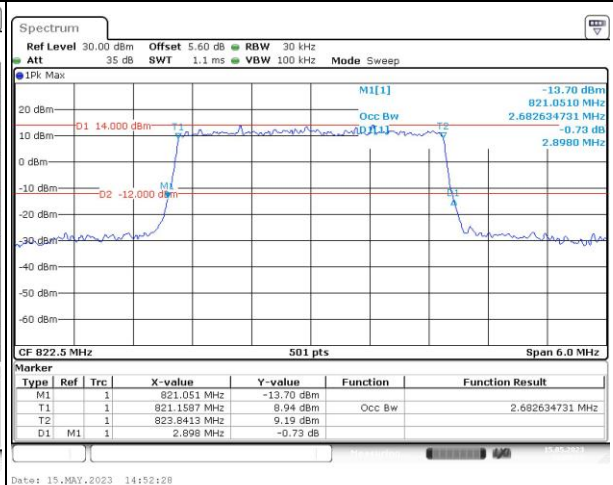
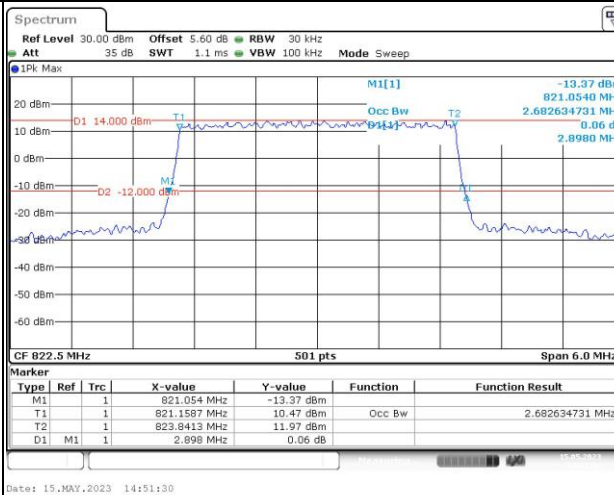
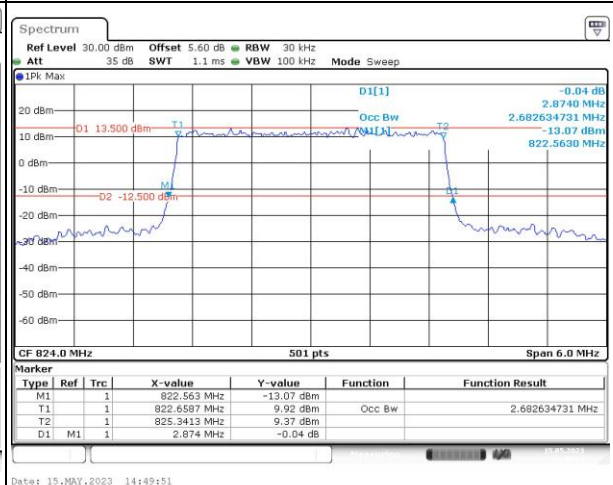
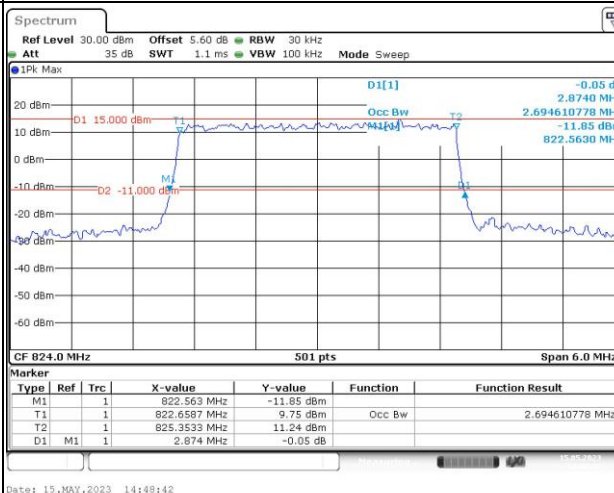
Lowest
For 22HMiddle
For 22HHighest
For 22H

Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

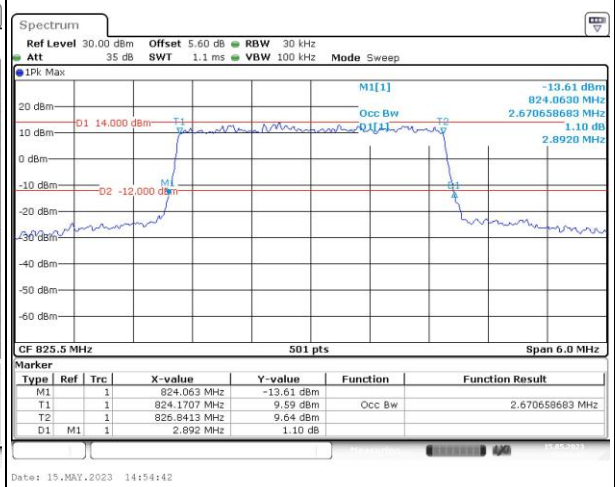
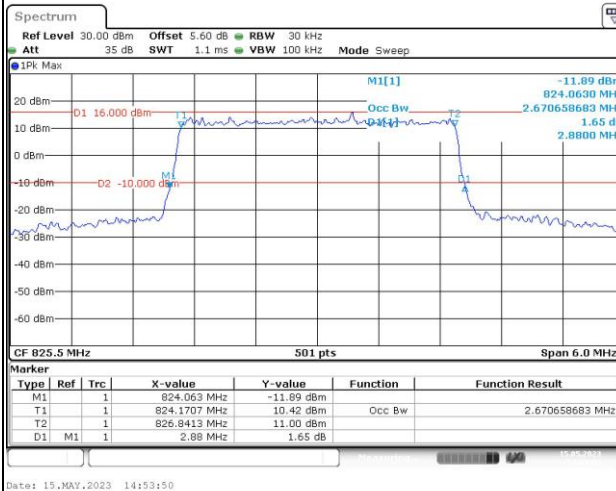
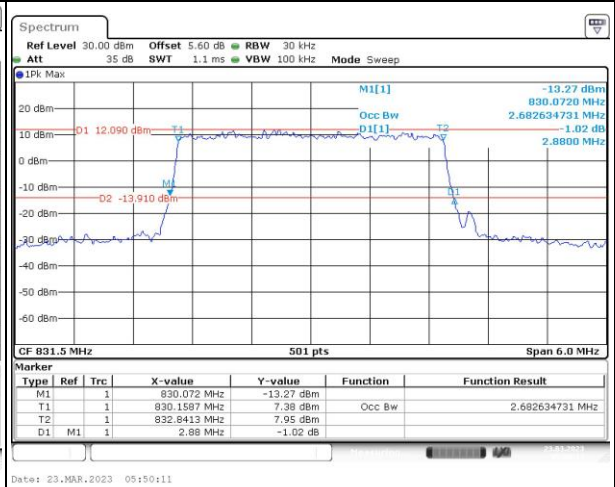
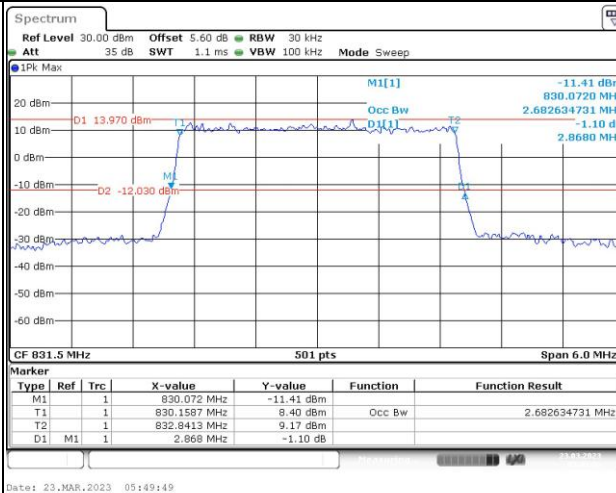
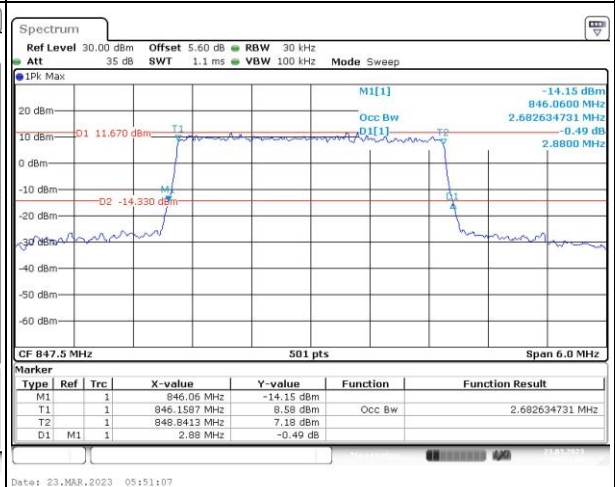
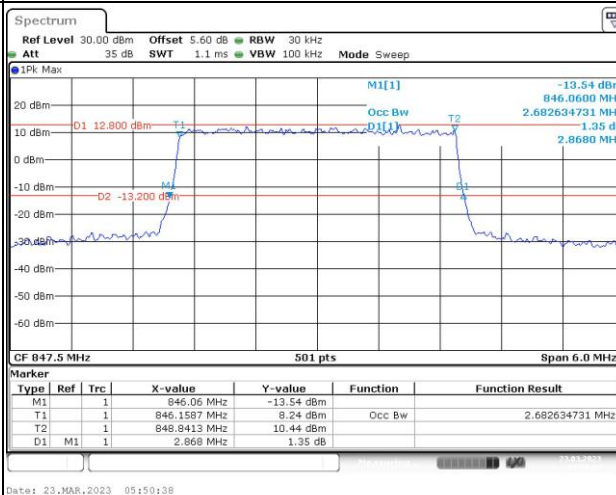
Lowest
For 90SHighest
For 90SCross
Channel

Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

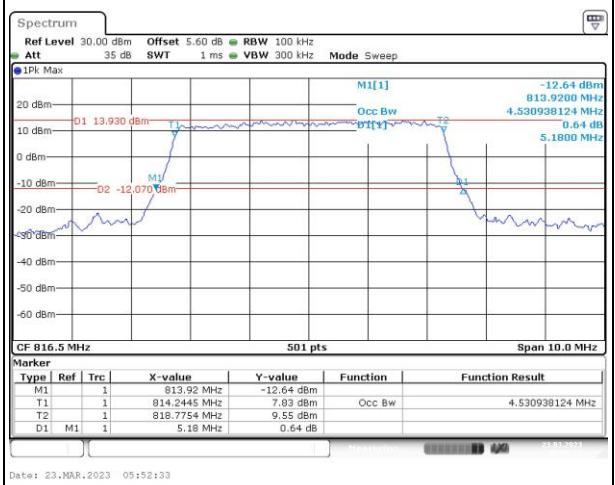
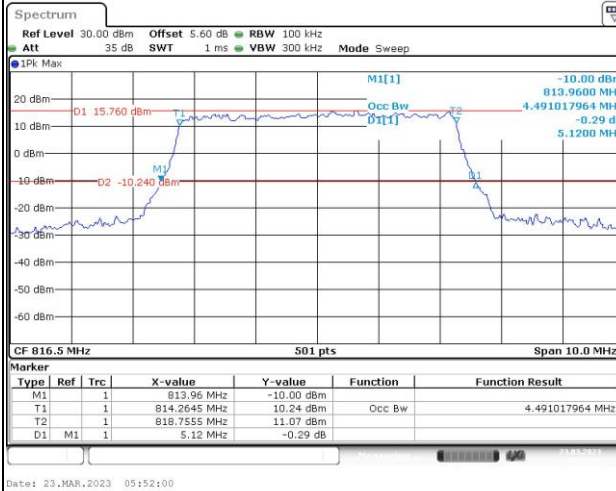
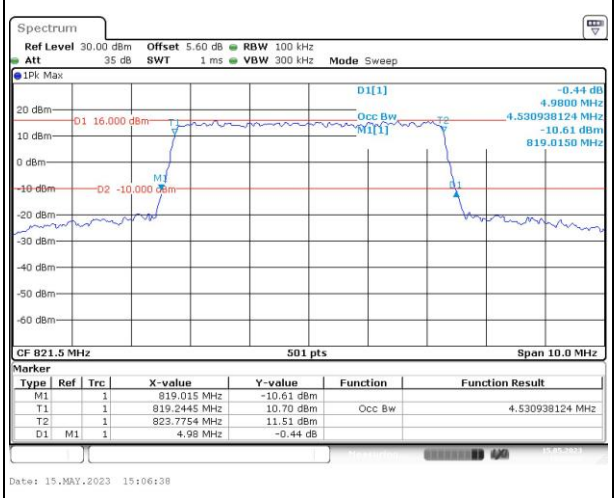
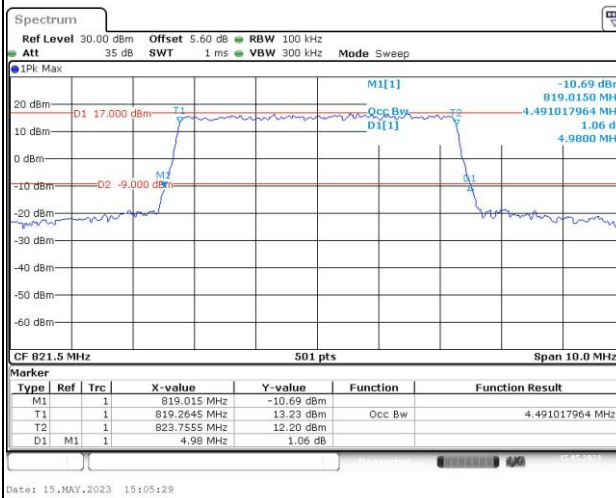
Lowest
For 22HMiddle
For 22HHighest
For 22H

Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest
For 90SHighest
For 90SCross
Channel