

	RB25#0	22.09	/	22.86	22.27	22.18	22		
	RB25#25	22.17	/	22.82	22.15	22.07	21.95		
	RB50#0	22.12	/	22.86	22.29	22.09	22.05		
10MHz 16QAM	RB1#0	22.54	/	22.79	22.93	22.31	22.43	19.46	38.45
	RB1#25	22.73	/	23.55	23.54	22.67	22.97		
	RB1#49	22.9	/	22.78	22.87	21.71	21.89		
	RB25#0	21.21	/	21.92	21.47	21.41	21.17		
	RB25#25	21.28	/	21.97	21.09	21.1	21.15		
	RB50#0	21.32	/	21.87	21.29	20.97	21.01		
15MHz QPSK	RB1#0	22.98	/	23.39	22.9	22.9	22.92	19.3	38.45
	RB1#38	23.25	/	23.34	23.01	23.01	23.26		
	RB1#74	23.28	/	23.03	22.92	22.95	22.97		
	RB36#0	22.07	/	22.28	22.07	22.14	22.04		
	RB36#39	22.15	/	22.3	22.05	22.16	22.06		
	RB75#0	22.16	/	22.27	22.02	22.09	22.09		
15MHz 16QAM	RB1#0	22.53	/	22.48	22.12	22.29	22.39	19.4	38.45
	RB1#38	22.38	/	23.49	22.23	22.43	23.12		
	RB1#74	22.43	/	22.74	21.23	21.76	22.13		
	RB36#0	21.35	/	21.28	21.19	21.09	21.1		
	RB36#39	21.38	/	21.3	21	21.03	21.02		
	RB75#0	21.12	/	21.29	20.97	21.08	20.96		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15The result was calculated with the maximum combination of G_T - Lc

Result: Pass

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H	
15MHz QPSK	RB1#0	4.06	4.09	4.09	13
	RB75#0	4.14	4.29	4.38	13
15MHz 16QAM	RB1#0	4.93	4.87	4.87	13
	RB75#0	5.48	5.54	5.57	13
Result:					Pass

Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.102	1.102	1.108	1.102	1.108	1.108
1.4MHz 16QAM	1.102	1.108	1.096	1.108	1.102	1.096
3MHz QPSK	2.695	2.695	2.683	2.695	2.683	2.683
3MHz 16QAM	2.683	2.695	2.683	2.695	2.683	2.695
5MHz QPSK	4.491	4.531	4.491	4.511	4.531	4.491
5MHz 16QAM	4.531	4.491	4.511	4.531	4.511	4.511
10MHz QPSK	8.942	/	8.942	8.942	8.942	8.942
10MHz 16QAM	8.942	/	8.942	8.942	8.942	8.902
15MHz QPSK	13.473	/	13.473	13.353	13.473	13.473
15MHz 16QAM	13.473	/	13.473	13.473	13.533	13.473
Operation Mode	26 dB Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.302	1.32	1.302	1.32	1.296	1.32
1.4MHz 16QAM	1.326	1.32	1.32	1.32	1.314	1.302
3MHz QPSK	2.94	2.928	2.964	2.94	2.964	2.952
3MHz 16QAM	2.964	2.964	2.952	2.964	2.952	2.964
5MHz QPSK	4.98	5.02	5	5.04	5.02	5.04
5MHz 16QAM	5.02	5.02	5.02	5.04	5	5.02
10MHz QPSK	9.72	/	9.64	9.76	9.68	9.8
10MHz 16QAM	9.72	/	9.72	9.68	9.72	9.68
15MHz QPSK	14.94	/	14.88	14.7	14.94	14.82
15MHz 16QAM	14.82	/	14.82	14.82	14.88	14.82

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

Spurious Emissions at Antenna Terminal

Result:	Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.
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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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Frequency Stability					
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	7.7	-2.19	-0.003	2.5
	-20	7.7	7.41	0.009	2.5
	-10	7.7	6.21	0.007	2.5
	0	7.7	4.98	0.006	2.5
	10	7.7	2.86	0.003	2.5
	20	7.7	-0.11	0.000	2.5
	30	7.7	-0.76	-0.001	2.5
	40	7.7	-8.49	-0.010	2.5
	50	7.7	8.05	0.010	2.5
Frequency Stability vs. Voltage	20	6.8	2.73	0.003	2.5
	20	8.8	-6.23	-0.007	2.5
				Result:	Pass

Frequency Stability					
Test Modulation:	15 MHz 16QAM		Test Channel:	821.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	7.7	-4.6	-0.006	2.5
	-20	7.7	5.32	0.006	2.5
	-10	7.7	6.52	0.008	2.5
	0	7.7	3.75	0.005	2.5
	10	7.7	-0.66	-0.001	2.5
	20	7.7	-0.94	-0.001	2.5
	30	7.7	-7.58	-0.009	2.5
	40	7.7	3.03	0.004	2.5
	50	7.7	8.44	0.010	2.5
Frequency Stability vs. Voltage	20	6.8	-5.21	-0.006	2.5
	20	8.8	2.07	0.002	2.5
				Result:	Pass

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	7.7	-5.17	-0.006	2.5
	-20	7.7	-7.37	-0.009	2.5
	-10	7.7	6.94	0.008	2.5
	0	7.7	7.29	0.009	2.5
	10	7.7	7.08	0.009	2.5
	20	7.7	0.94	0.001	2.5
	30	7.7	-7.47	-0.009	2.5
	40	7.7	-5.65	-0.007	2.5
	50	7.7	-8.68	-0.010	2.5
Frequency Stability vs. Voltage	20	6.8	-6.62	-0.008	2.5
	20	8.8	6.05	0.007	2.5
				Result:	Pass

Frequency Stability					
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	7.7	-7.27	-0.009	2.5
	-20	7.7	6.14	0.007	2.5
	-10	7.7	5.96	0.007	2.5
	0	7.7	8.01	0.010	2.5
	10	7.7	-7.1	-0.009	2.5
	20	7.7	0.57	0.001	2.5
	30	7.7	7.1	0.009	2.5
	40	7.7	-8.68	-0.010	2.5
	50	7.7	-5.49	-0.007	2.5
Frequency Stability vs. Voltage	20	6.8	-7.79	-0.009	2.5
	20	8.8	6.16	0.007	2.5
				Result:	Pass

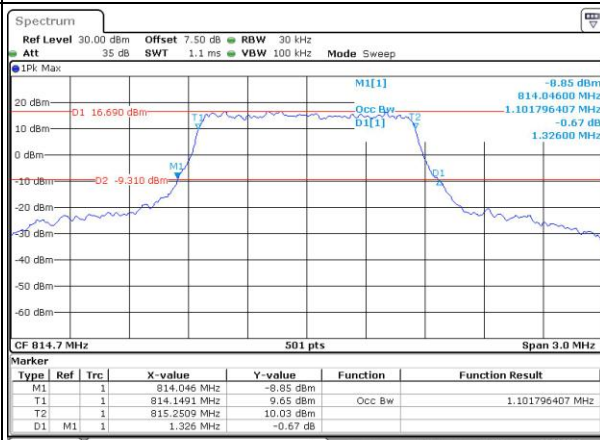
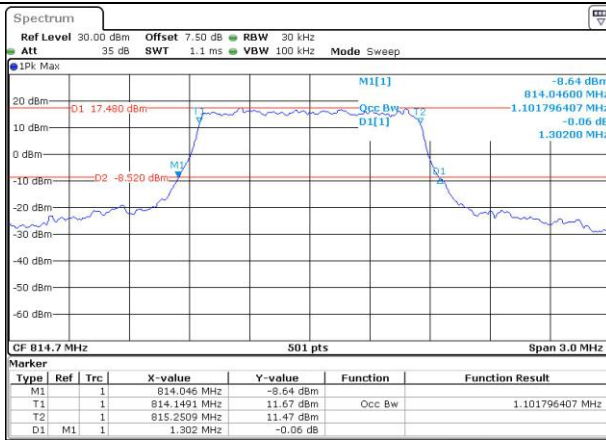
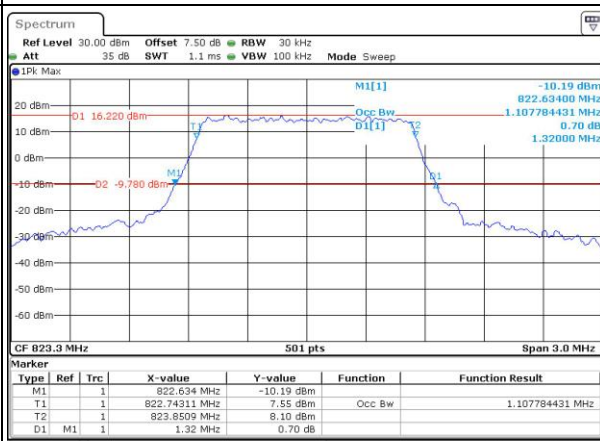
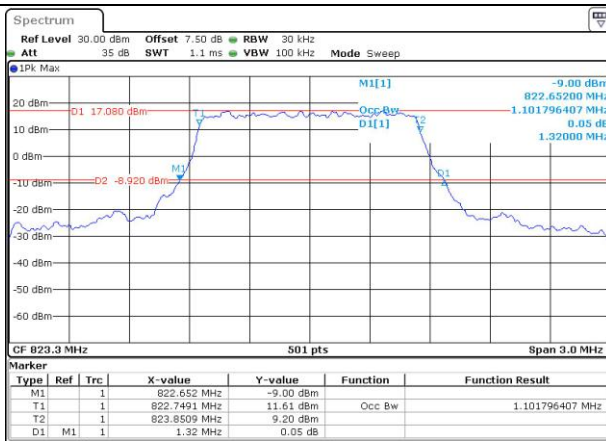
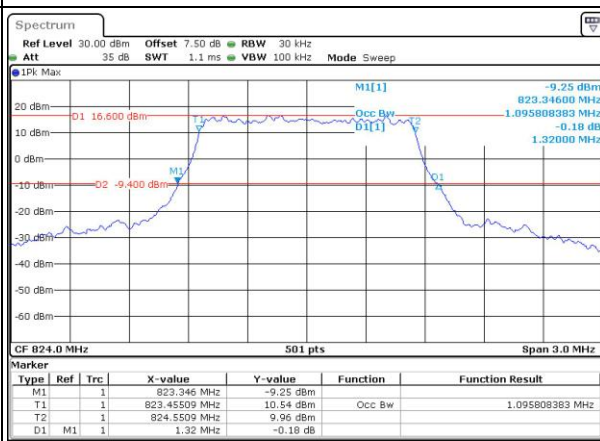
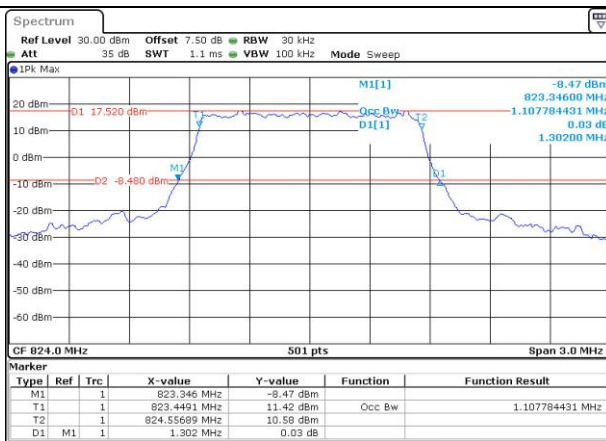
Test Plots:

Occupied Bandwidth

Channel

1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

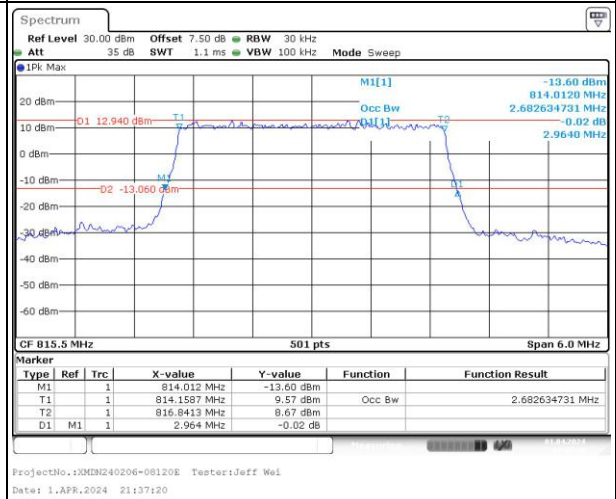
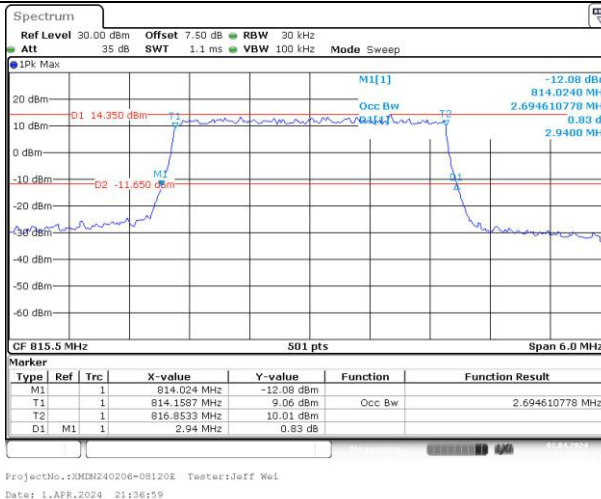
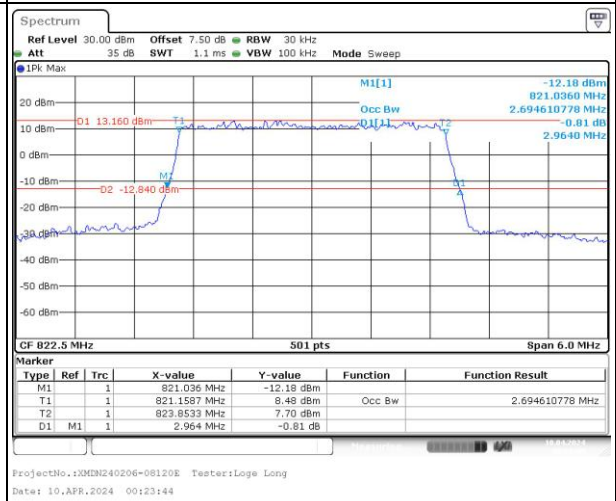
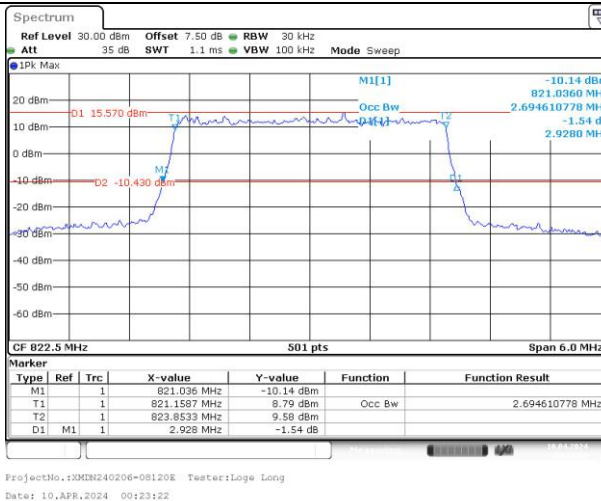
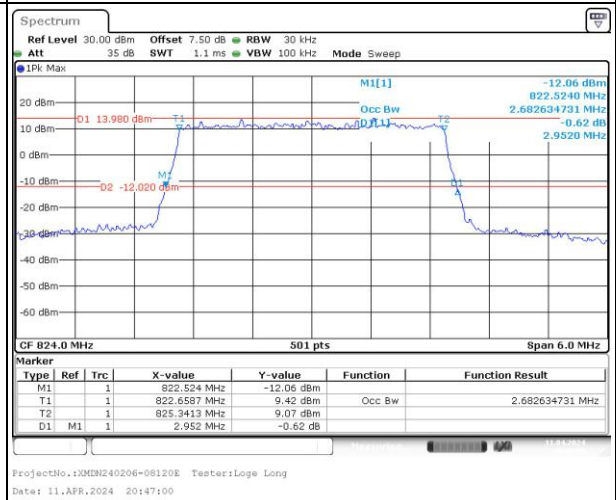
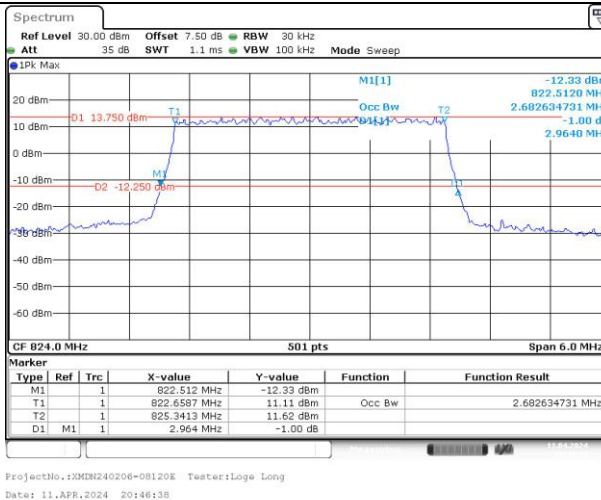
Lowest
For 90SHighest
For 90S90S&22H
Cross

Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

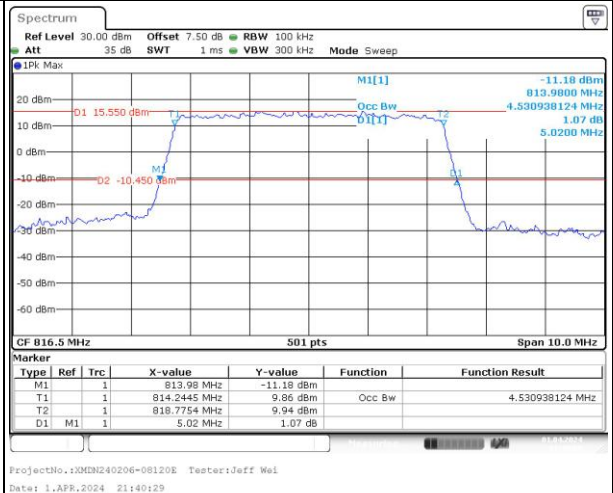
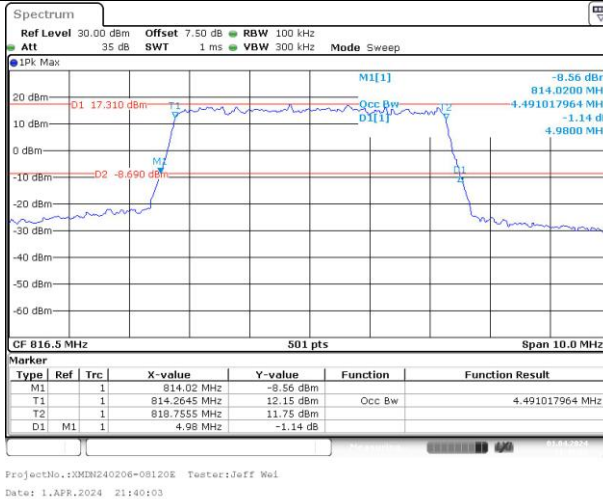
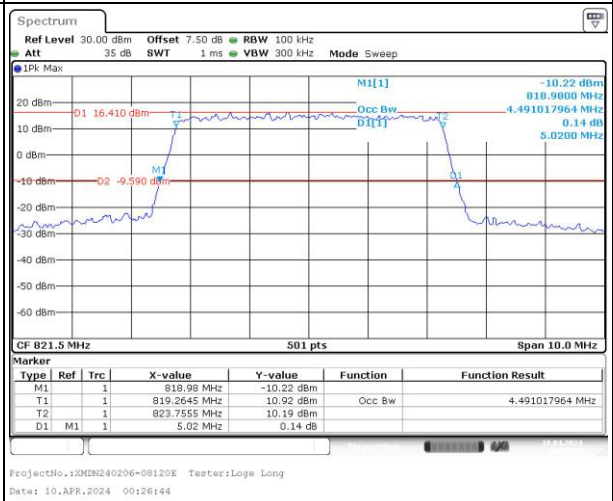
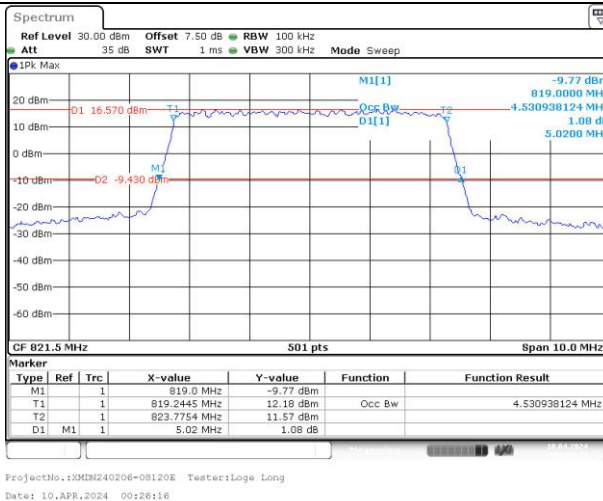
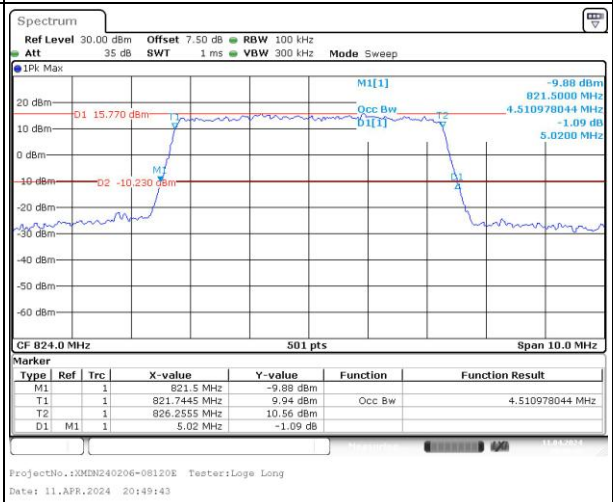
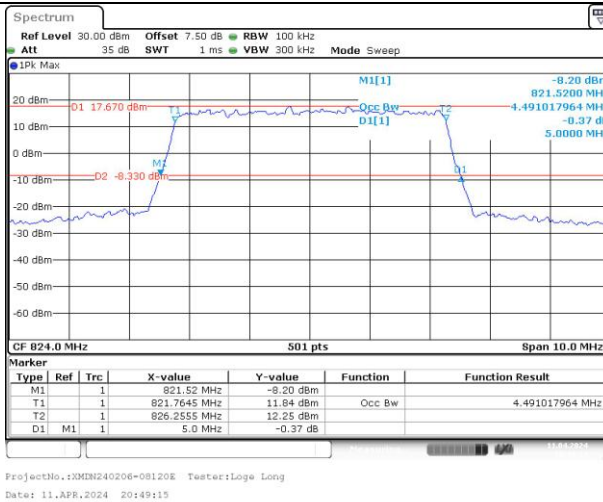
Lowest
For 90SHighest
For 90S90S&22H
Cross

Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

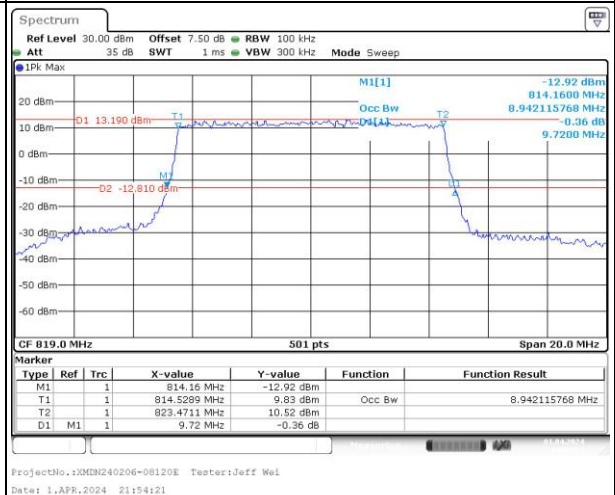
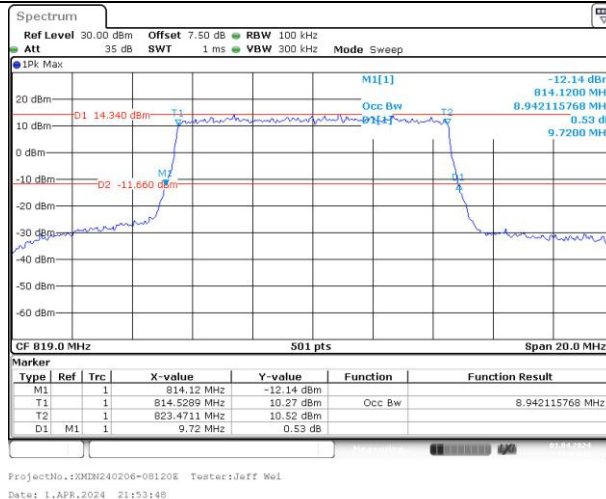
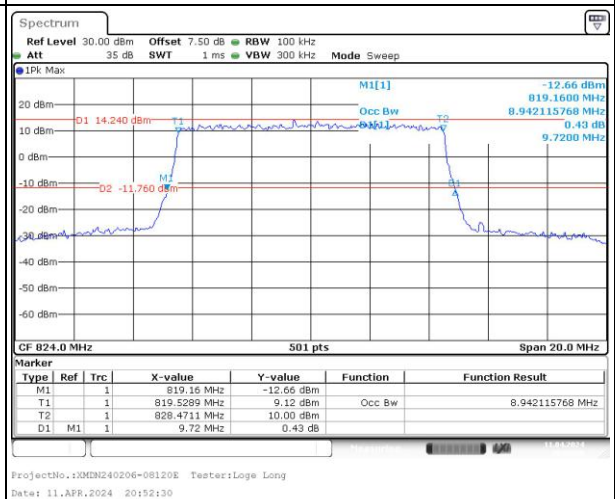
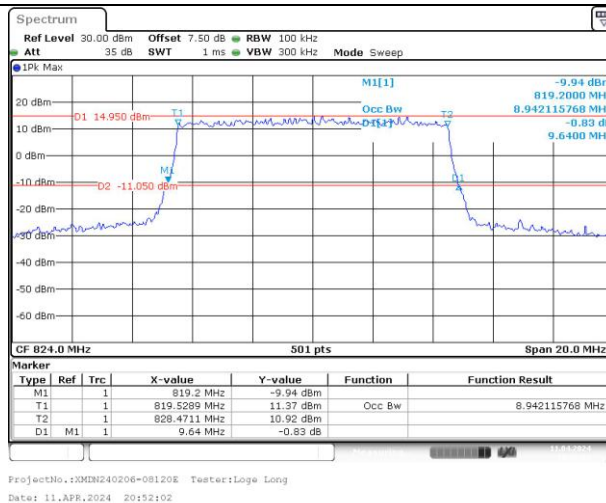
Lowest
For 90SHighest
For 90S90S&22H
Cross

Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

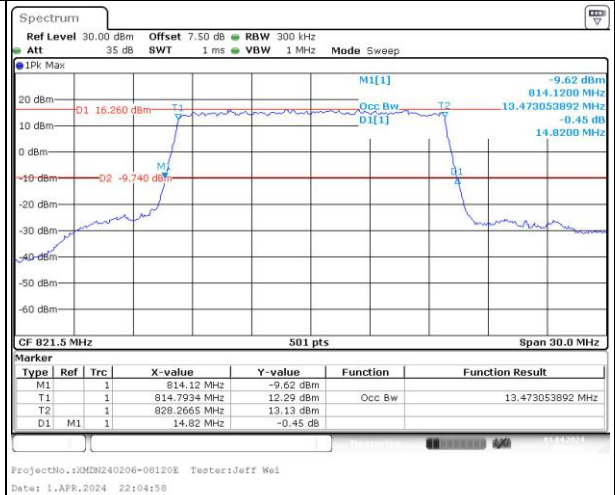
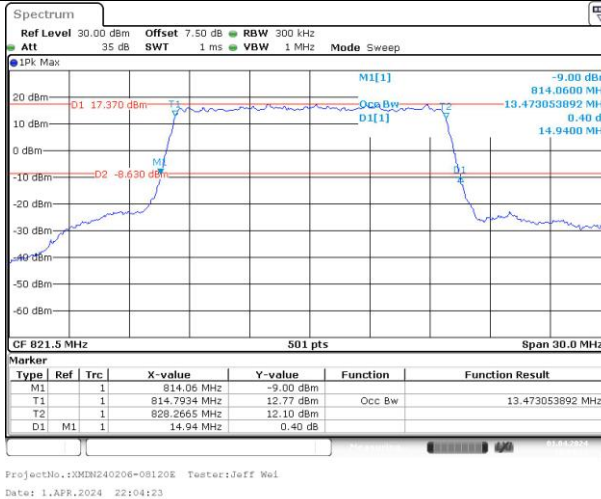
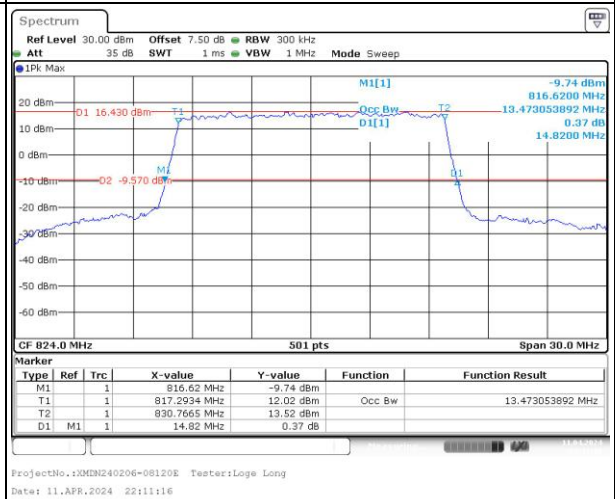
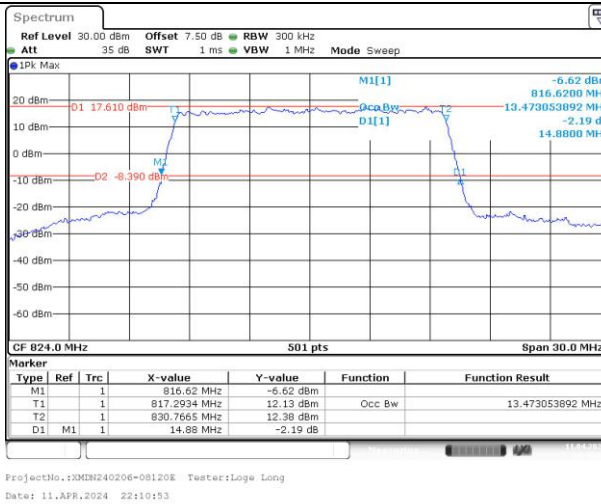
Lowest
For 90S90S&22H
Cross

Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

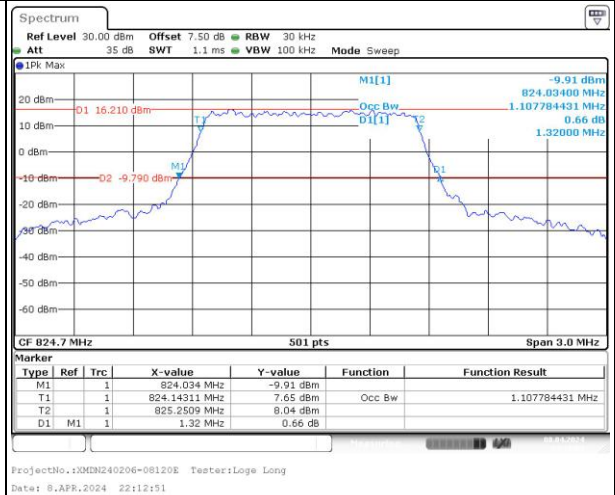
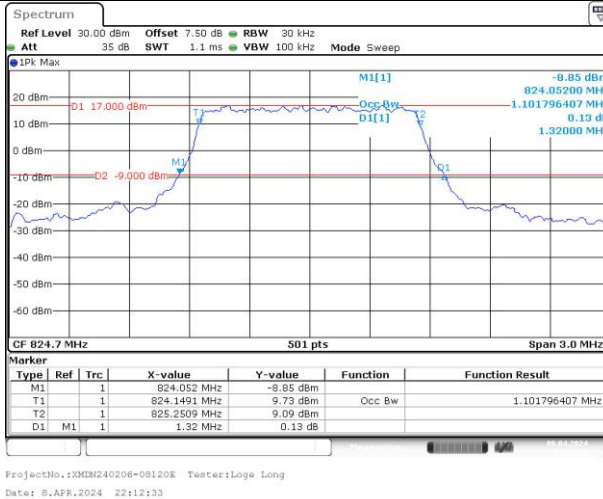
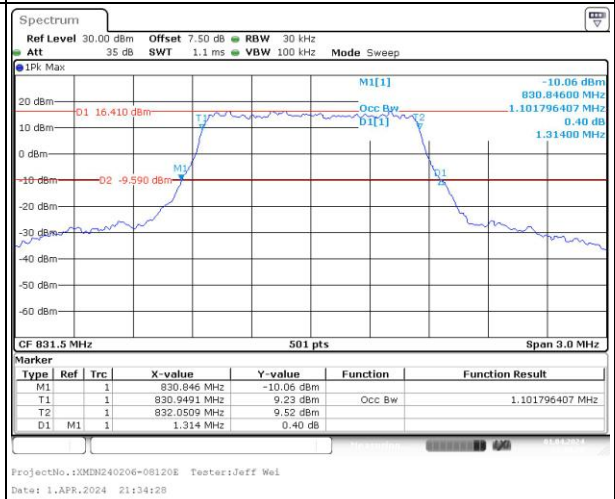
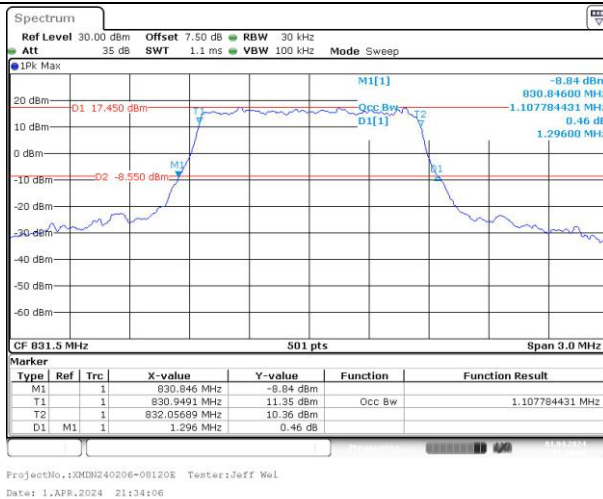
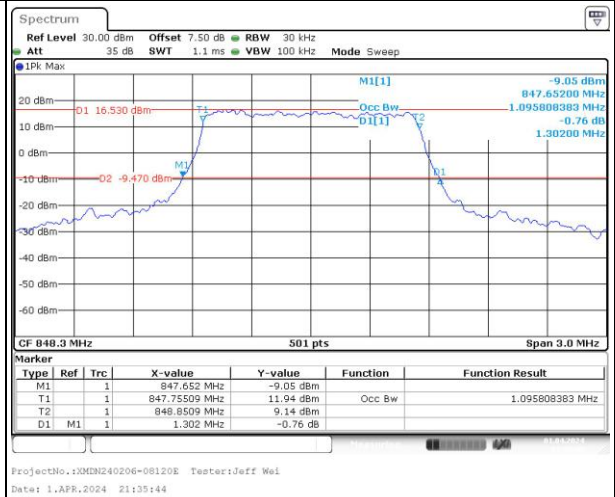
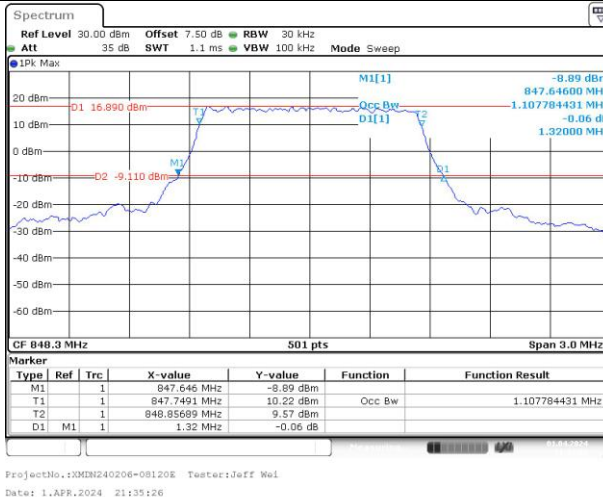
Lowest
For 90S90S&22H
Cross

Occupied Bandwidth

Channel

1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

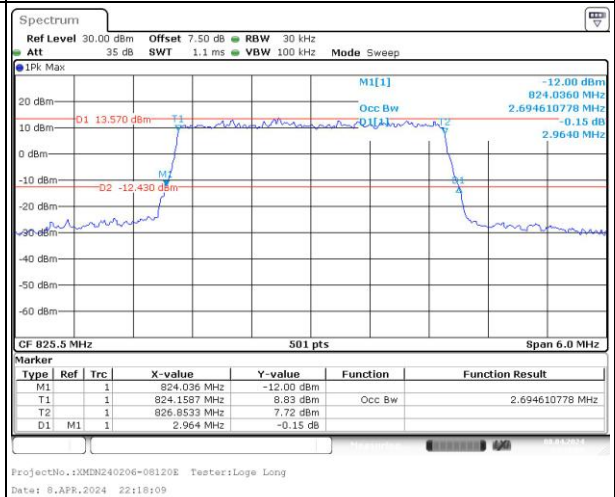
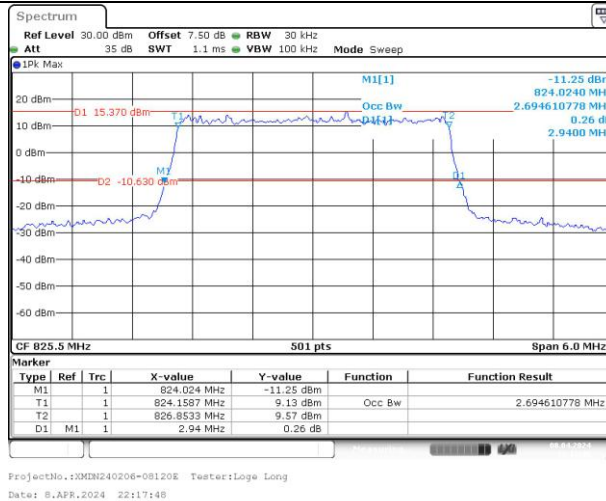
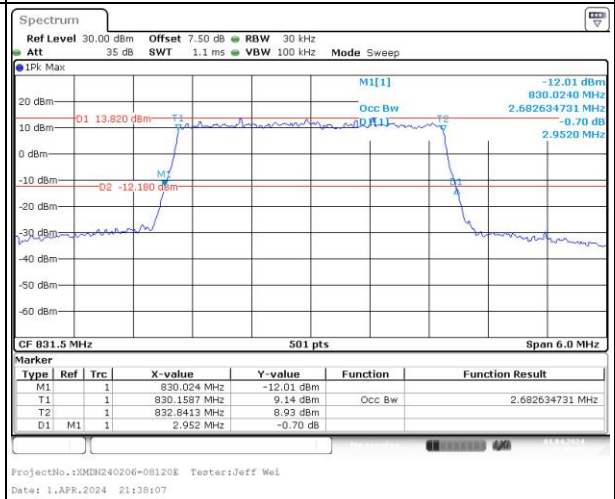
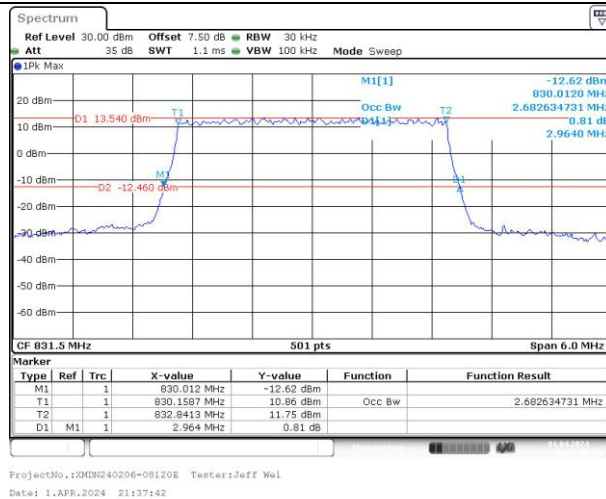
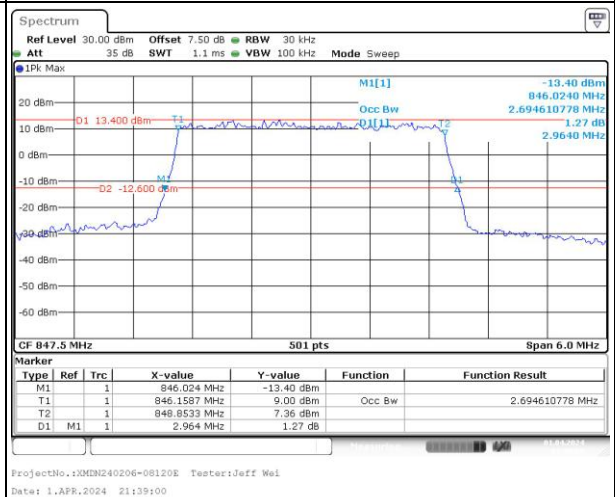
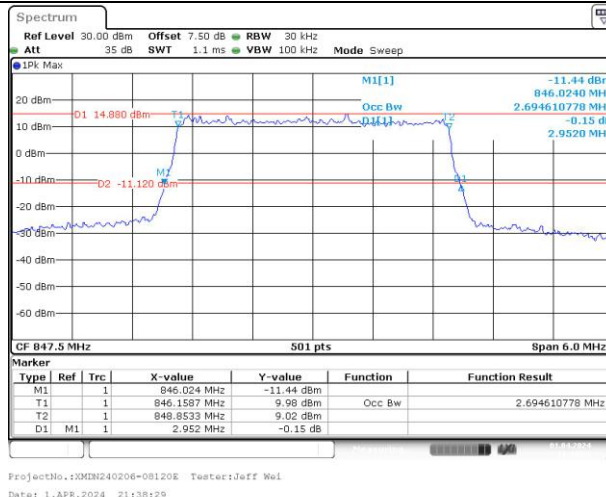
Lowest
For
22HMiddle
For
22HHighest
For
22H

Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

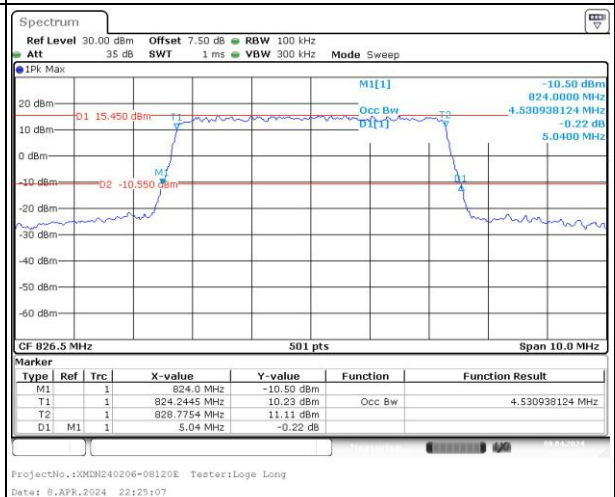
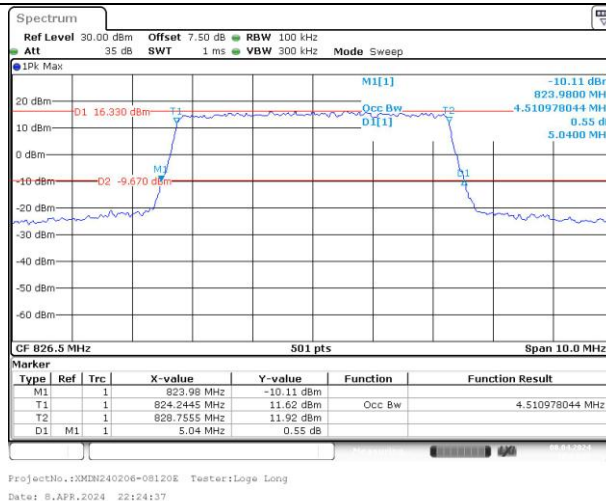
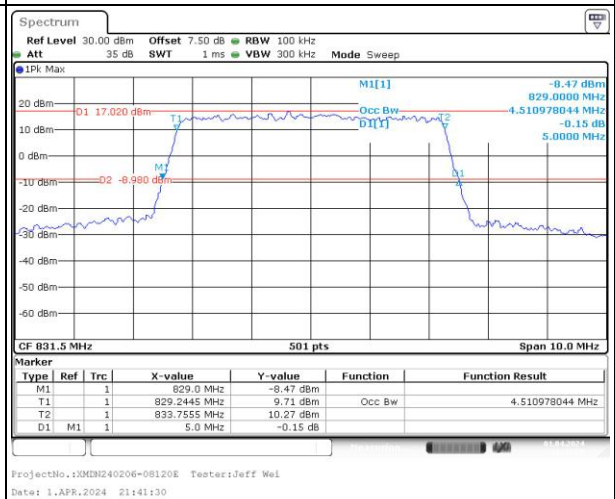
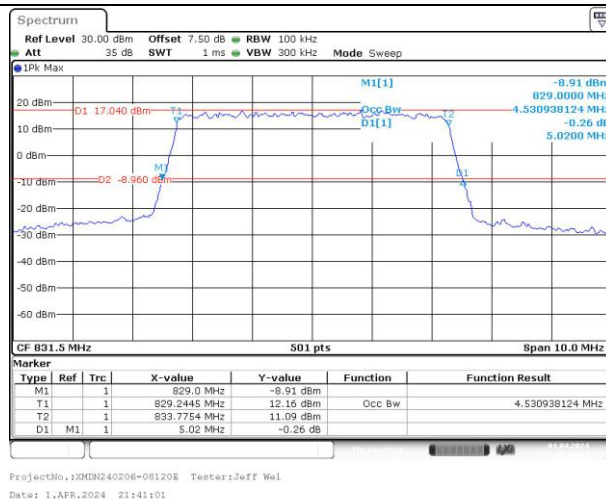
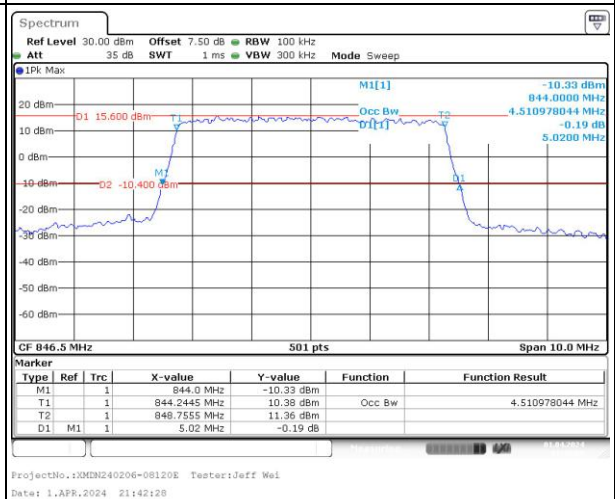
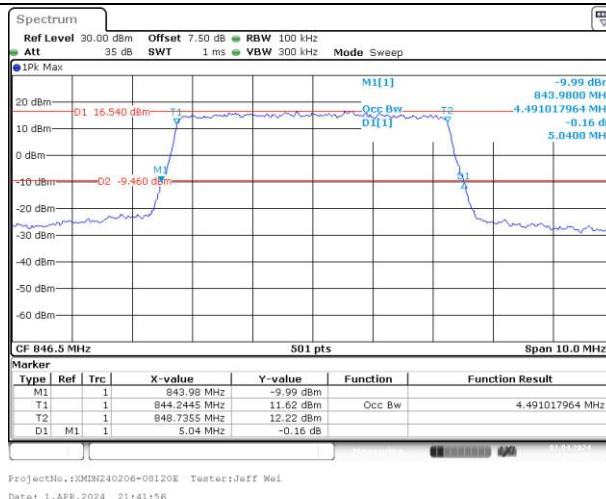
Lowest
For
22HMiddle
For
22HHighest
For
22H

Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

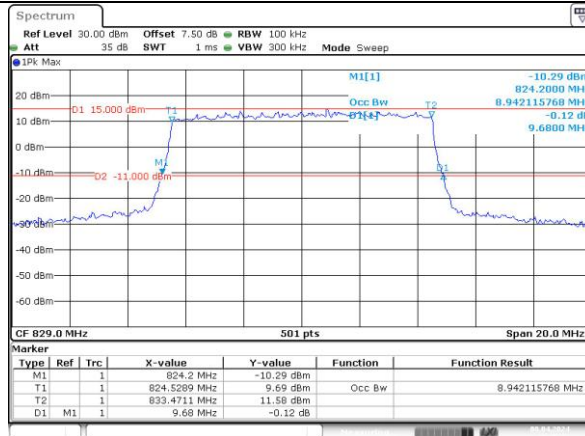
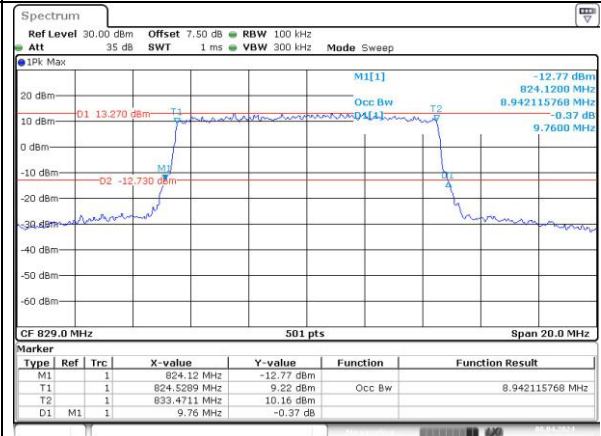
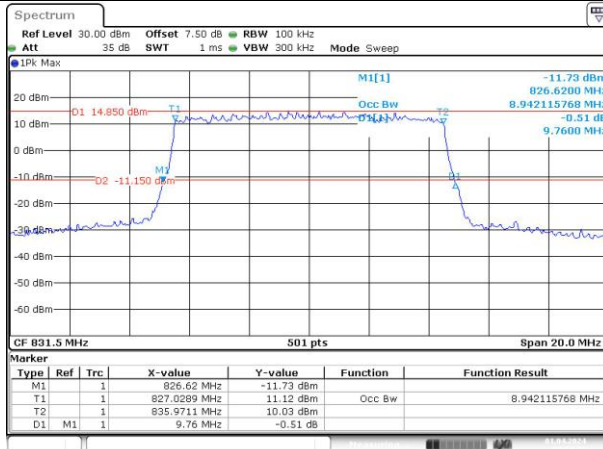
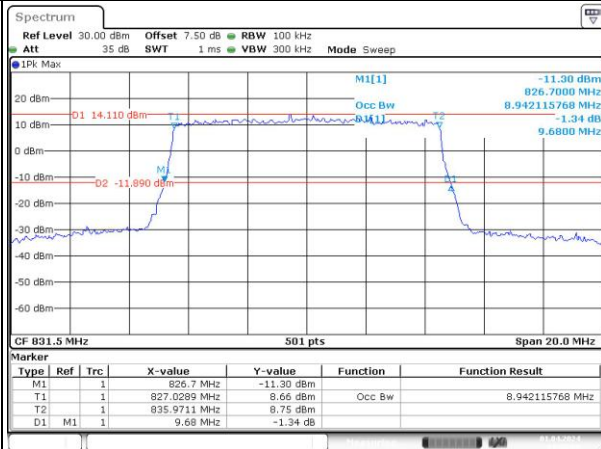
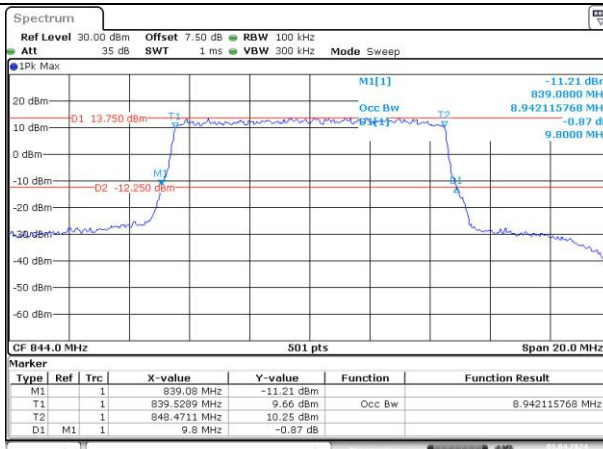
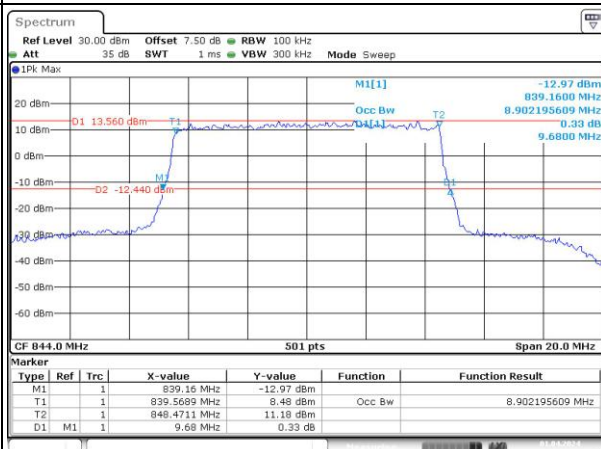
Lowest
For
22HMiddle
For
22HHighest
For
22H

Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

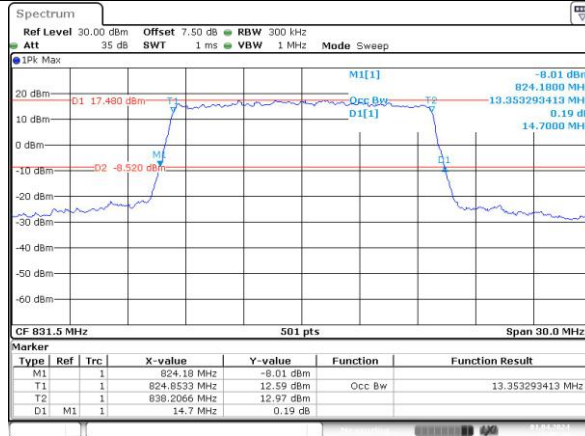
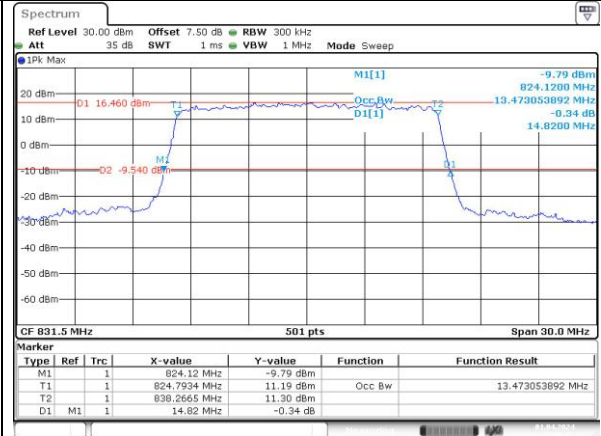
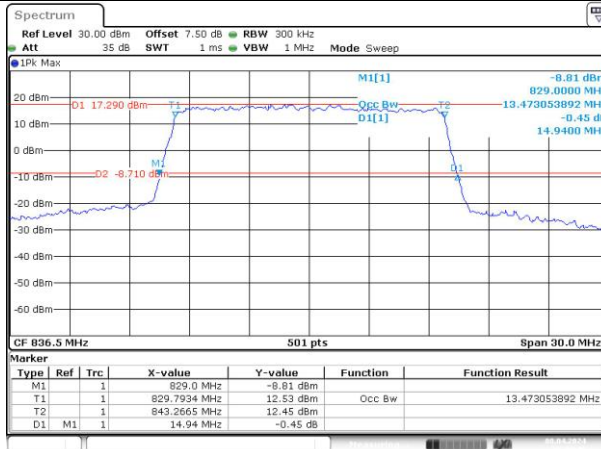
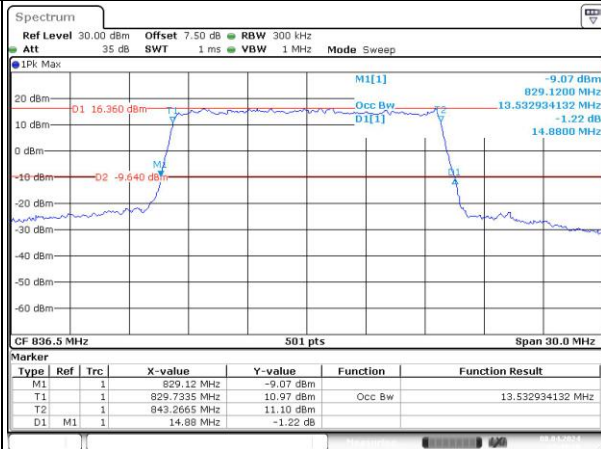
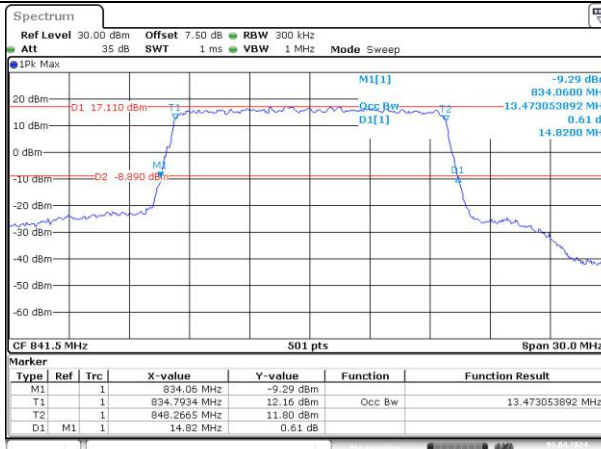
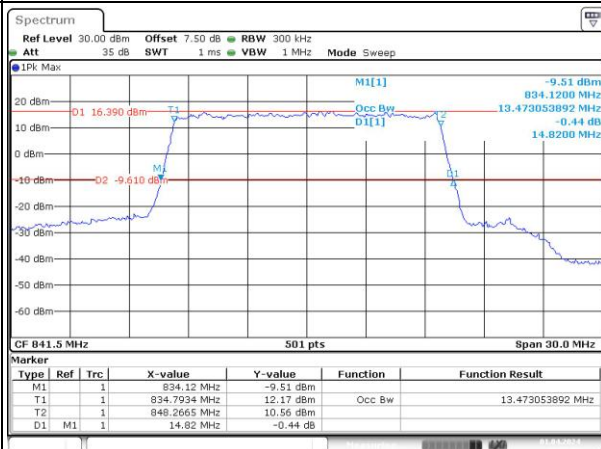
Lowest
For
22HProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 22:30:33ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 22:31:00Middle
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 21:54:52ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 21:55:25Highest
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 21:56:03ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 21:56:33

Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

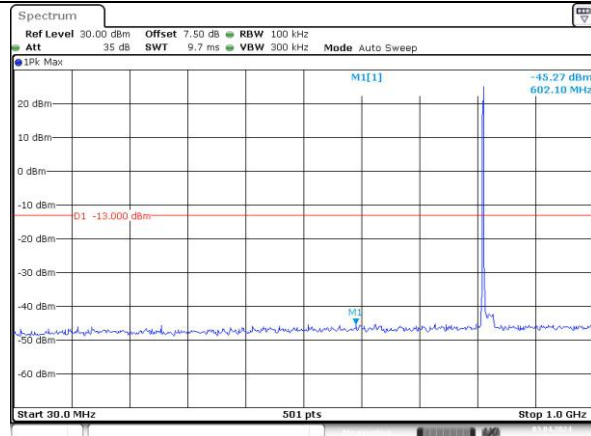
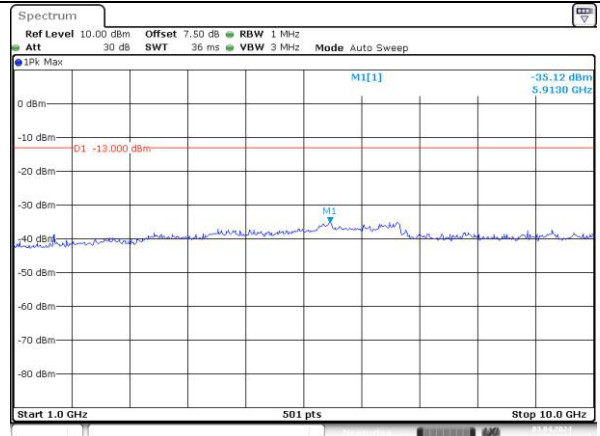
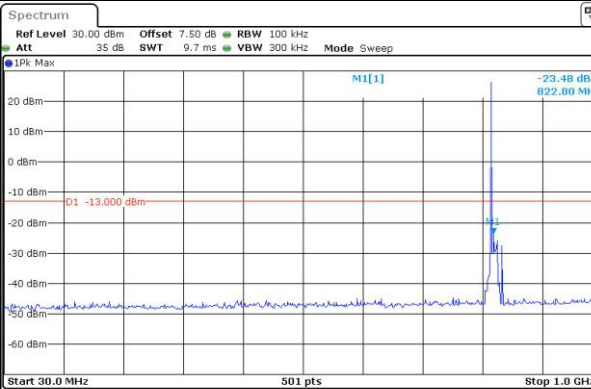
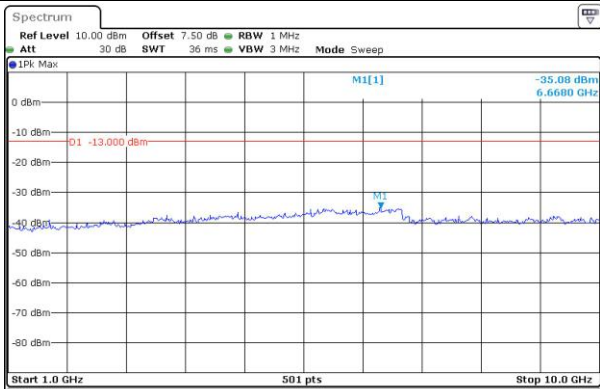
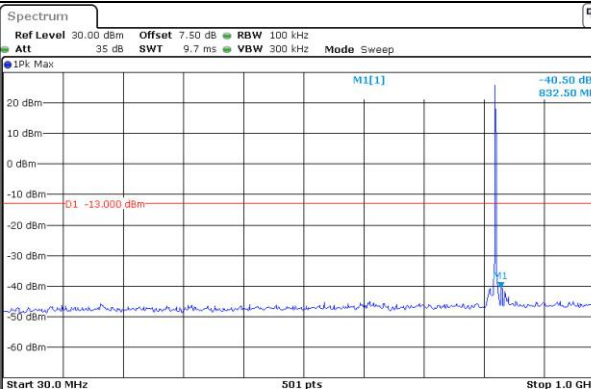
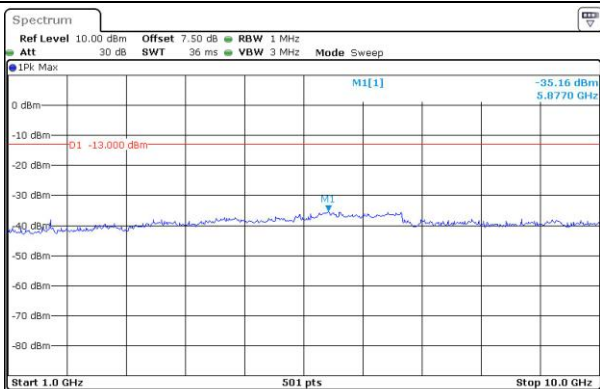
15MHz Bandwidth 16QAM

Lowest
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 22:05:30ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 22:06:02Middle
For
22HProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 22:14:42ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 22:14:10Highest
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 22:10:32ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 22:07:03

Spurious Emissions at Antenna Terminal

Channel

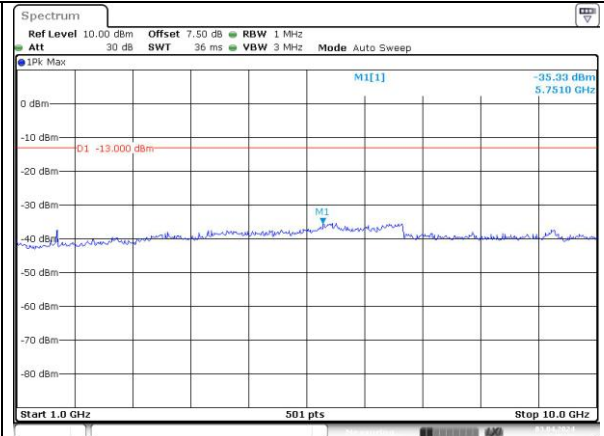
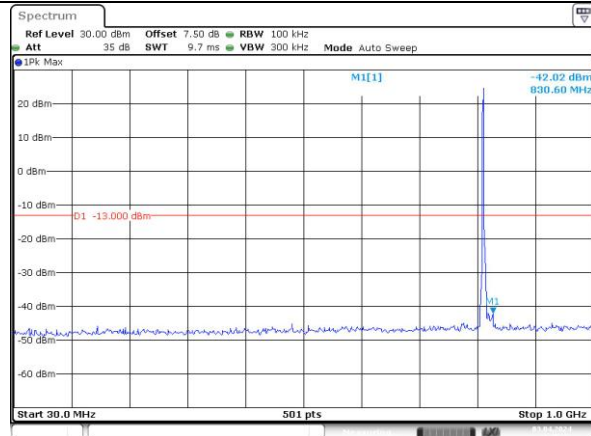
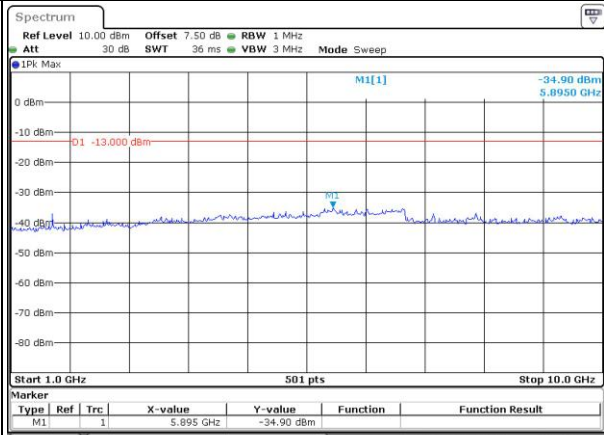
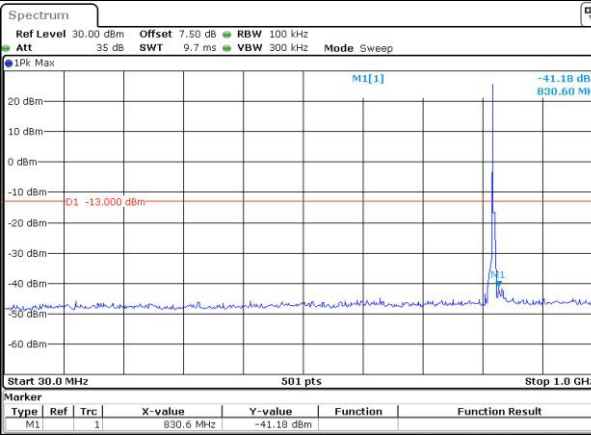
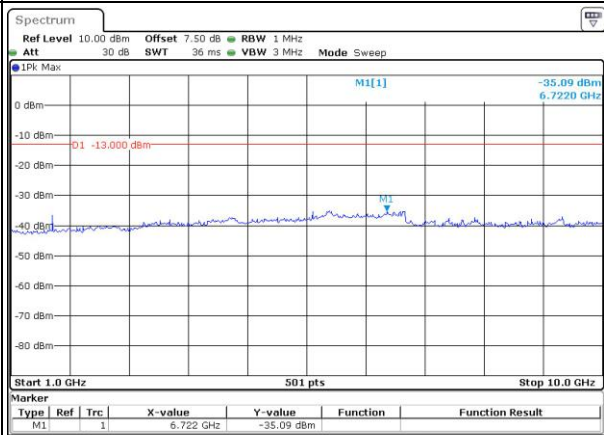
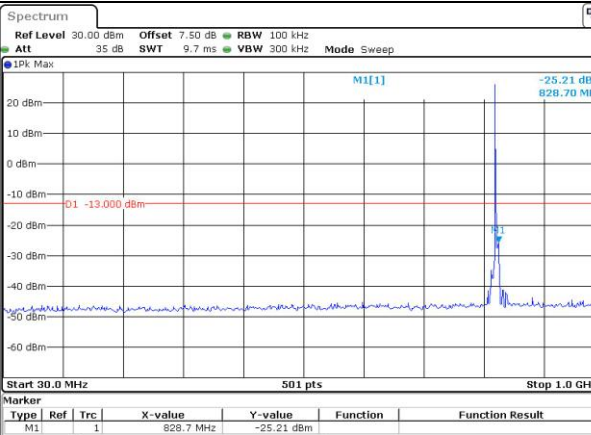
1.4MHz Bandwidth QPSK

Lowest
For 90SProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 20:10:12ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 20:10:38Highest
For 90SProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 10.APR.2024 00:13:57ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 10.APR.2024 00:16:2290S&22H
CrossProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 23:25:38ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 23:26:03

Spurious Emissions at Antenna Terminal

Channel

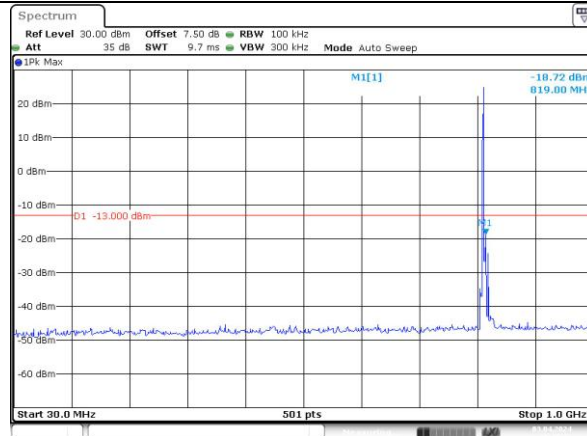
3MHz Bandwidth QPSK

Lowest
For 90SHighest
For 90S90S&22H
Cross

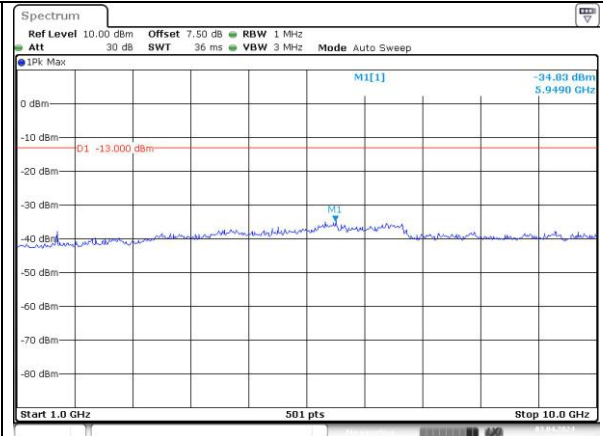
Spurious Emissions at Antenna Terminal

Channel

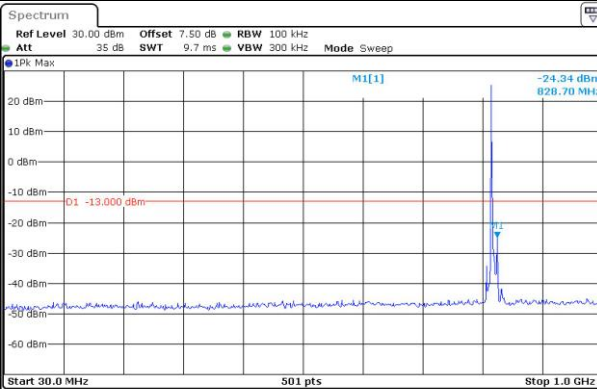
5MHz Bandwidth QPSK

Lowest
For 90S

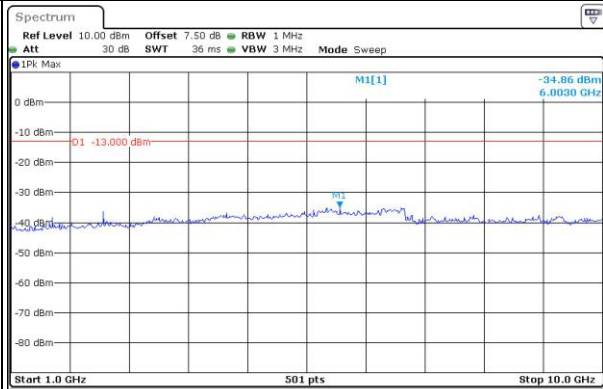
ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:10:14



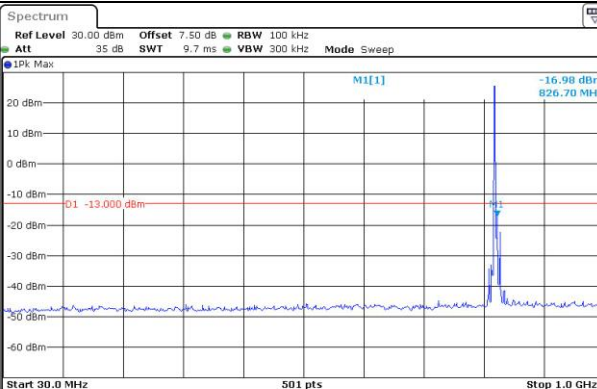
ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:10:39

Highest
For 90S

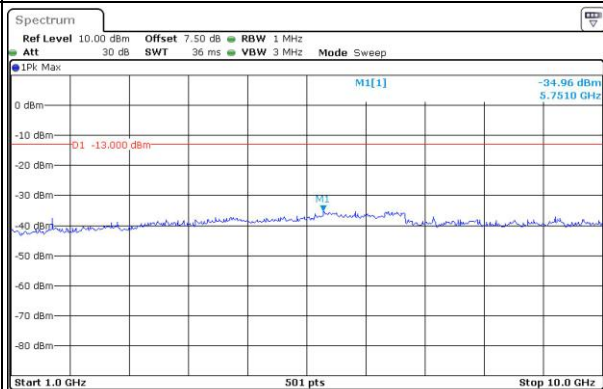
ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 10.APR.2024 00:42:57



ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 10.APR.2024 00:43:25

90S&22H
Cross

ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 23:32:22

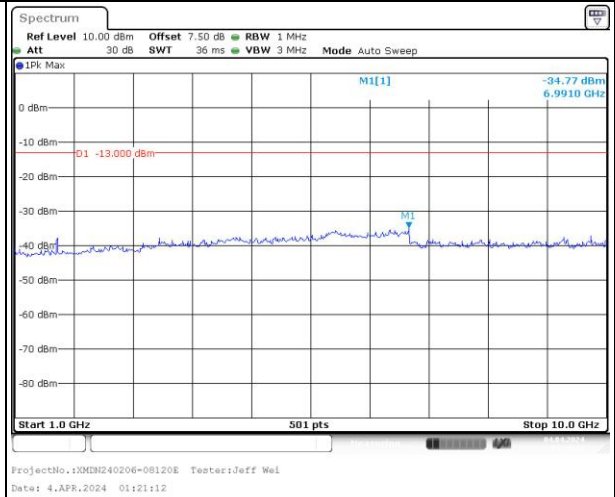
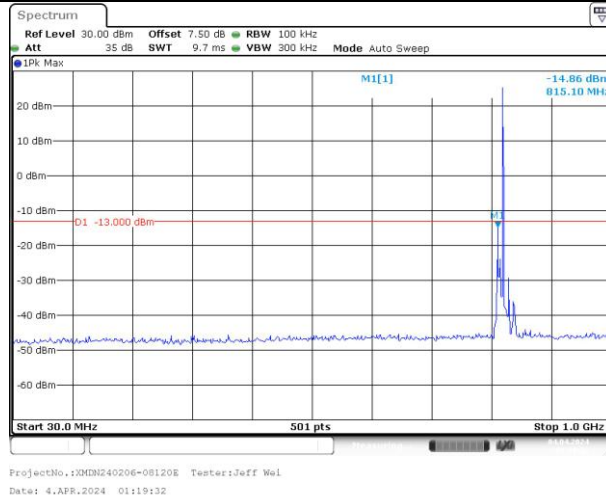
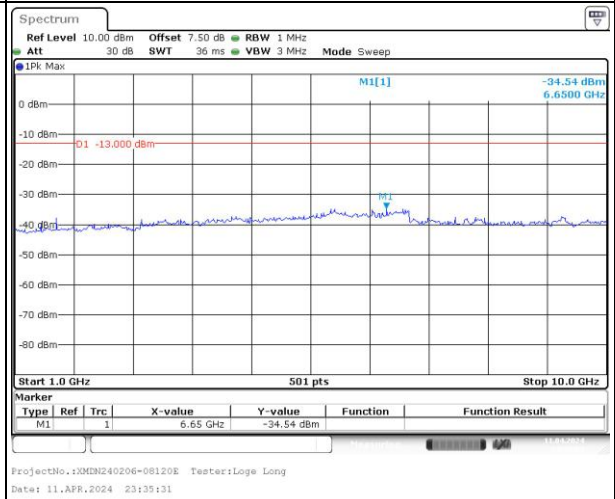
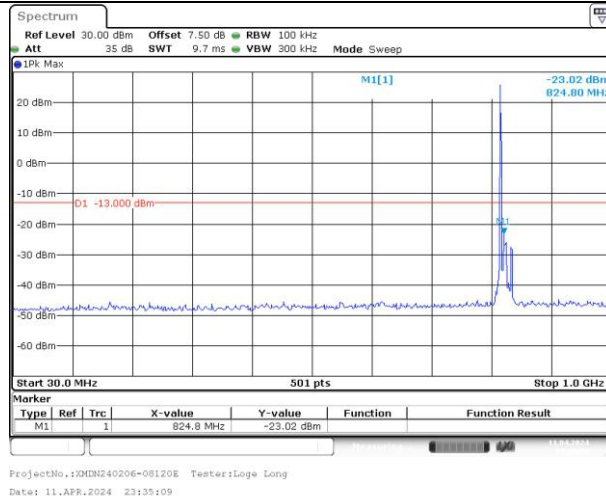


ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 23:32:40

Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

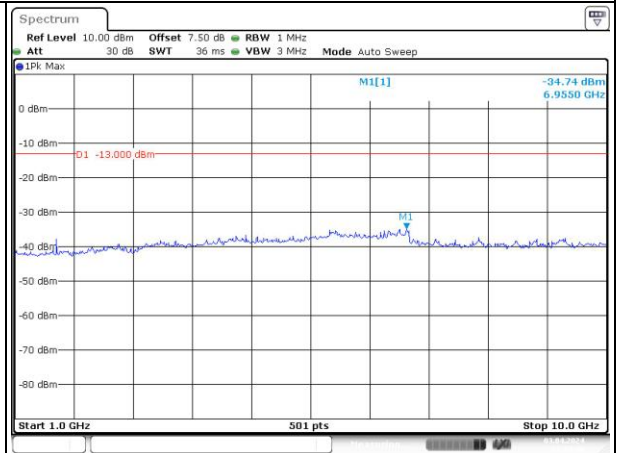
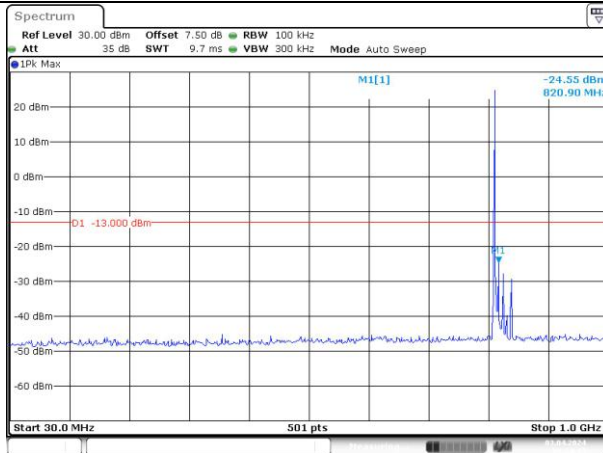
Lowest
For 90S90S&22H
Cross

Spurious Emissions at Antenna Terminal

Channel

15MHz Bandwidth QPSK

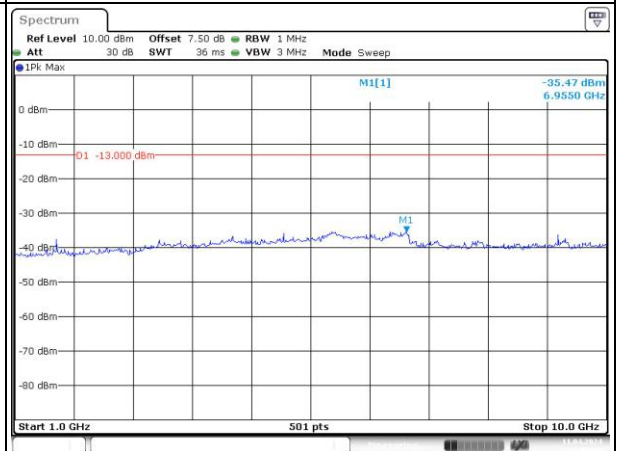
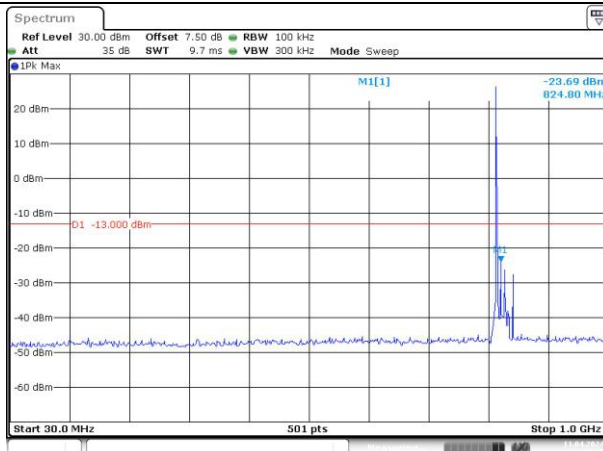
Lowest
For 90S



ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:24:16

ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:24:44

90S&22H
Cross



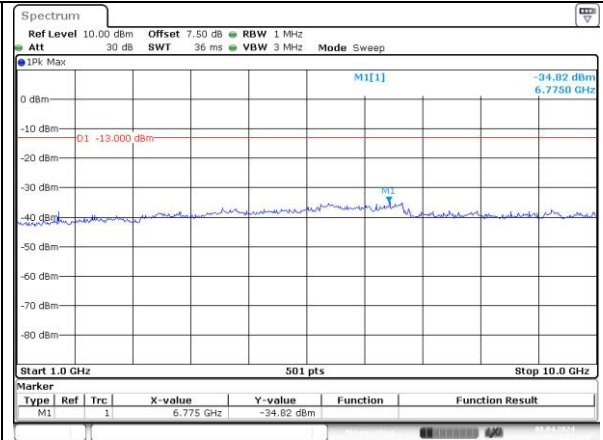
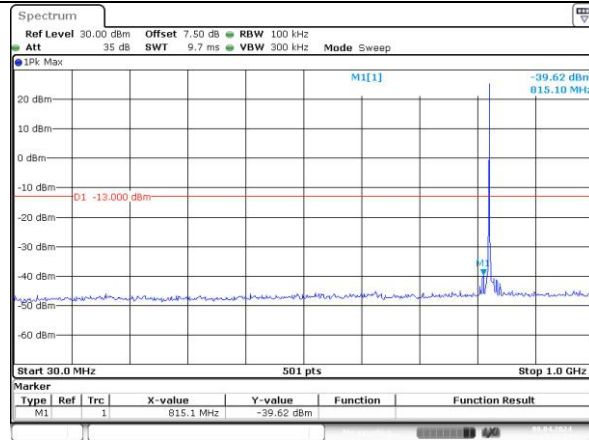
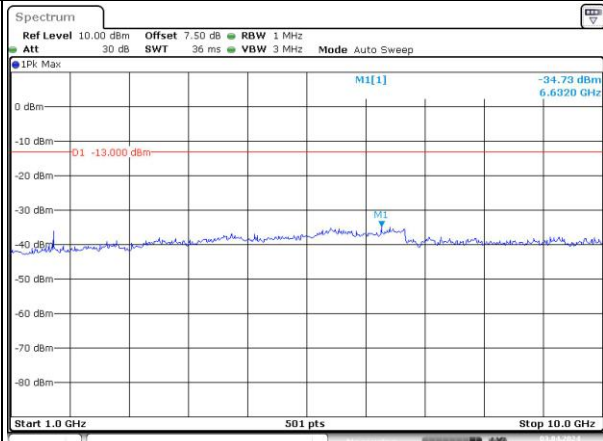
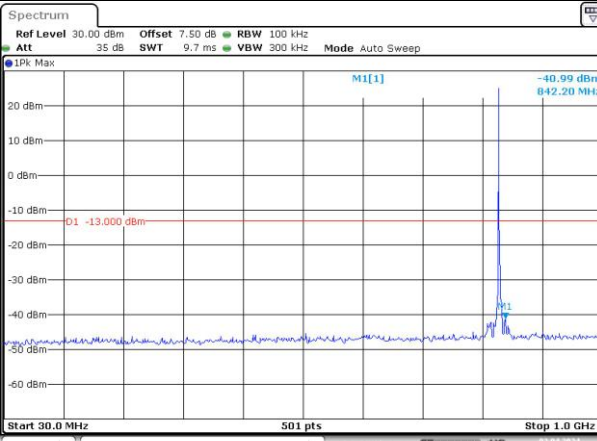
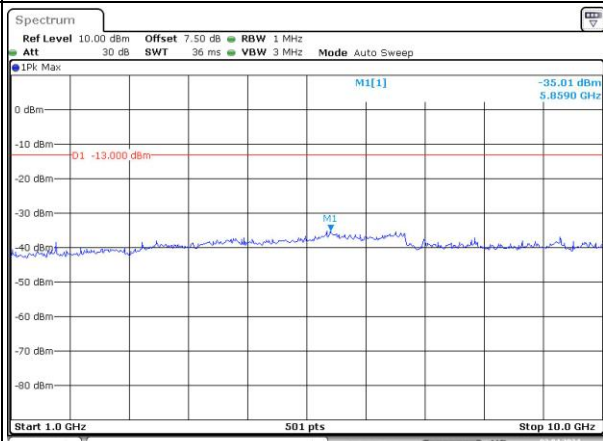
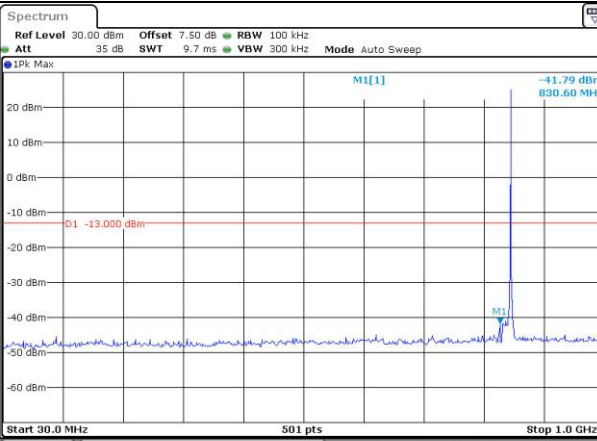
ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 22:08:27

ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 11.APR.2024 22:08:55

Spurious Emissions at Antenna Terminal

Channel

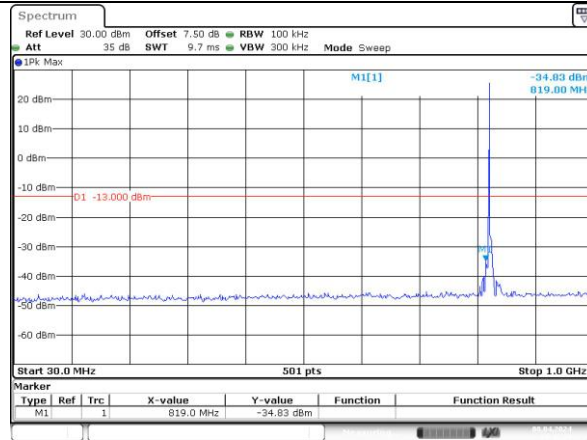
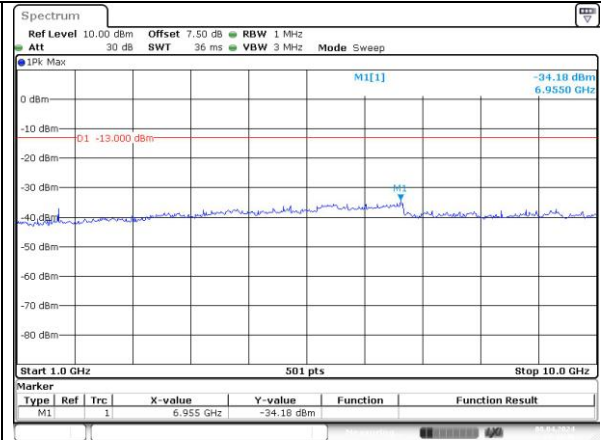
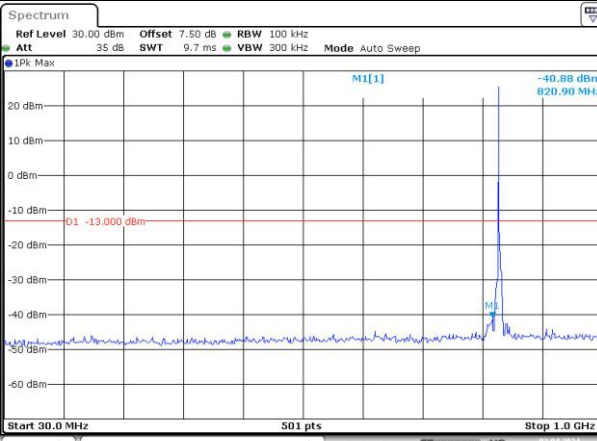
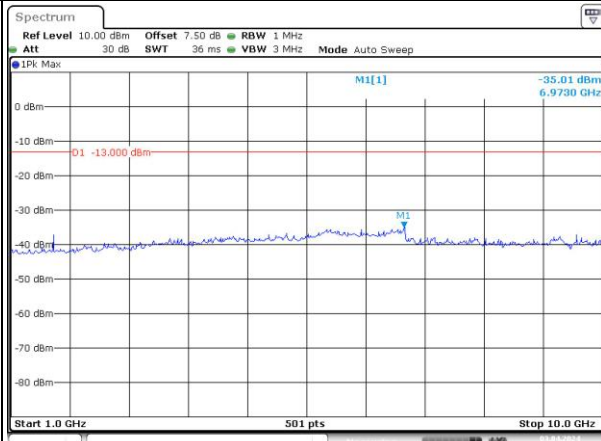
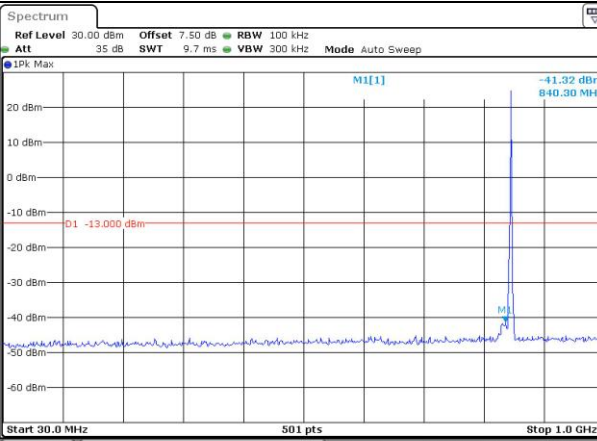
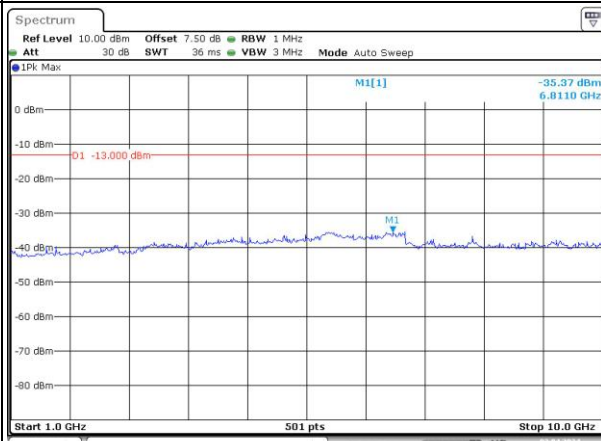
1.4MHz Bandwidth QPSK

Lowest
For
22HMiddle
For
22HHighest
For
22H

Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

Lowest
For
22HProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 23:42:20ProjectNo.:XMDN240206-08120E Tester:Loge Long
Date: 8.APR.2024 23:42:46Middle
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:06:09ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:06:32Highest
For
22HProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:07:19ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 3.APR.2024 21:07:48