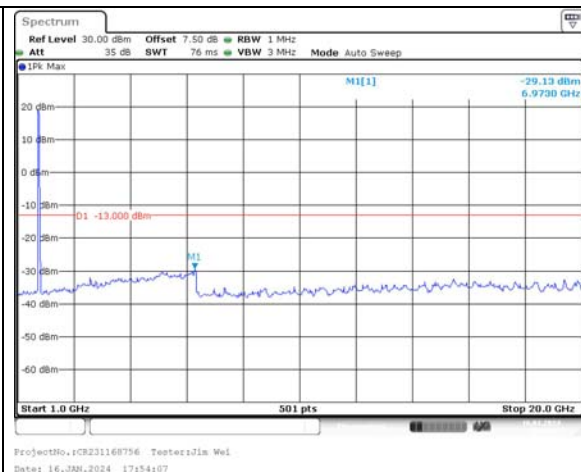
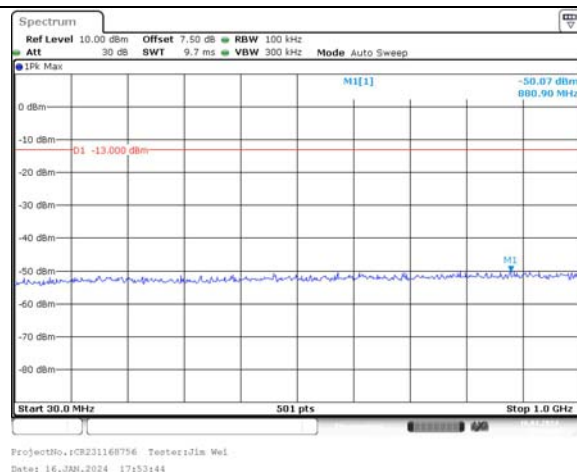


Spurious Emissions at Antenna Terminal

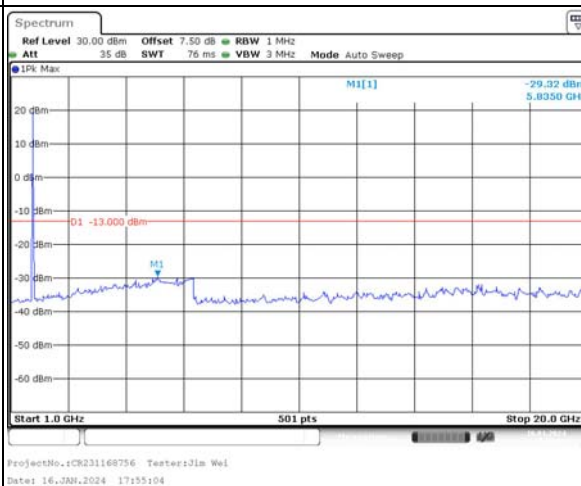
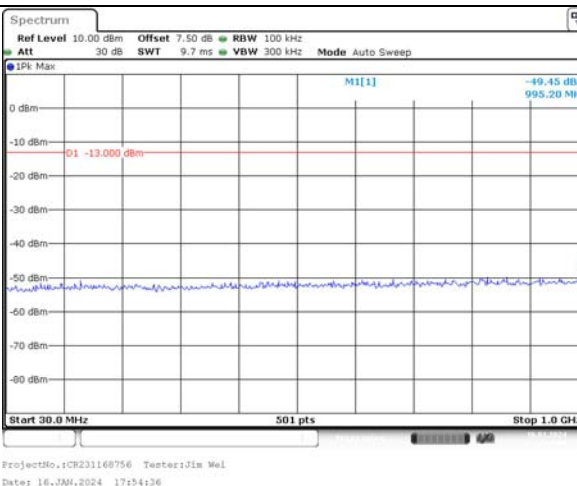
Channel

15MHz Bandwidth QPSK

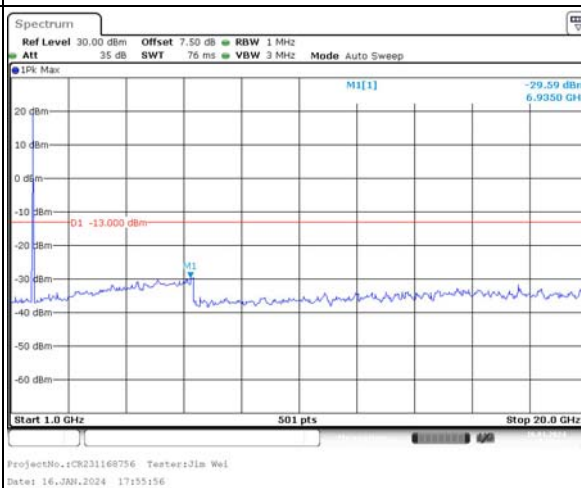
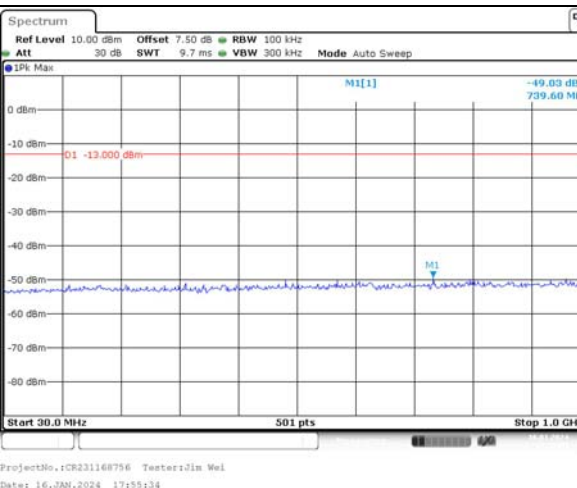
Lowest



Middle



Highest

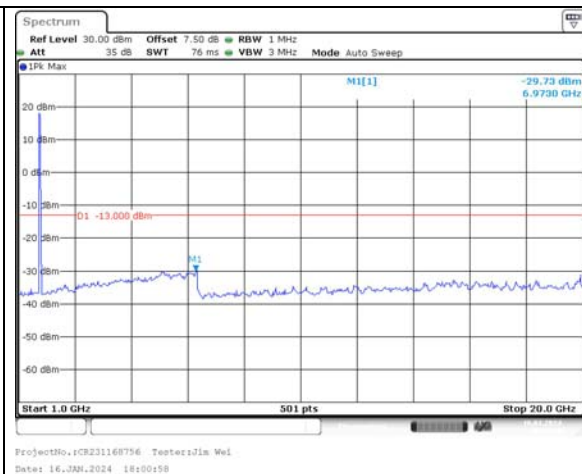
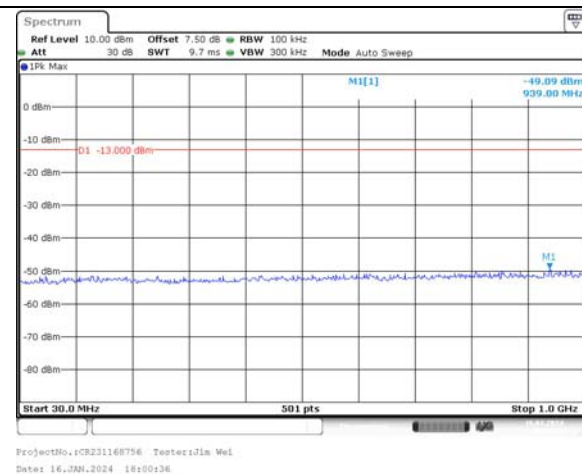


Spurious Emissions at Antenna Terminal

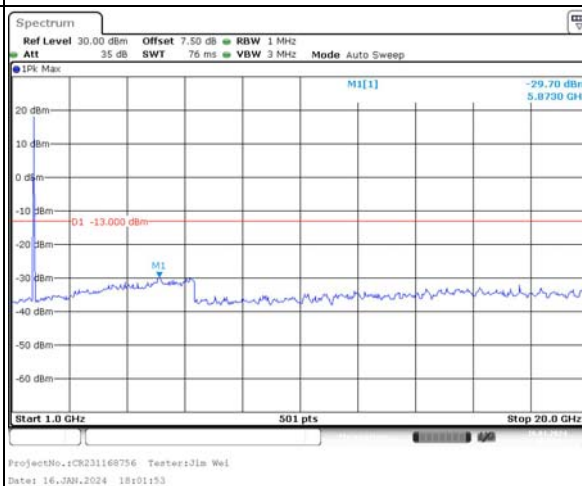
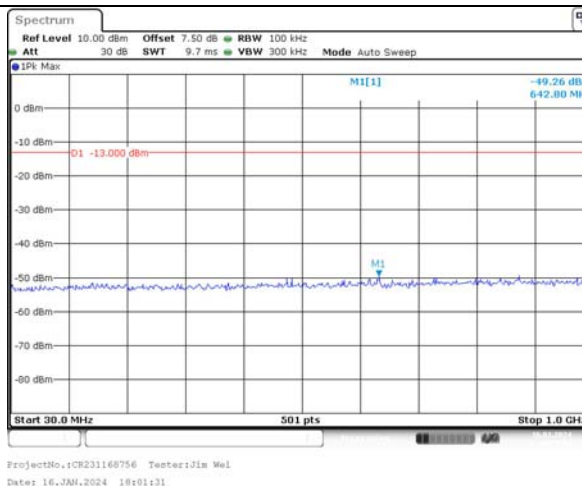
Channel

20MHz Bandwidth QPSK

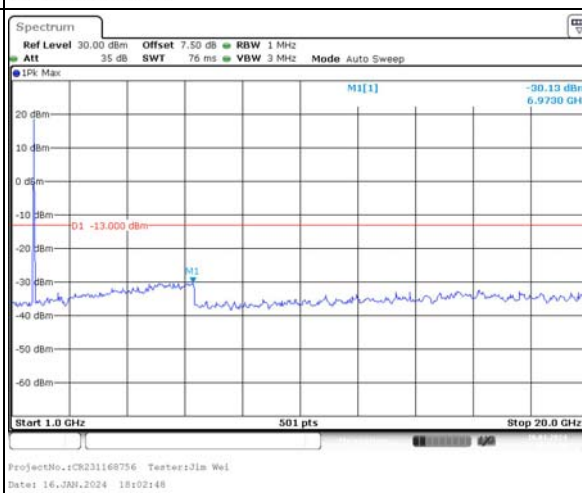
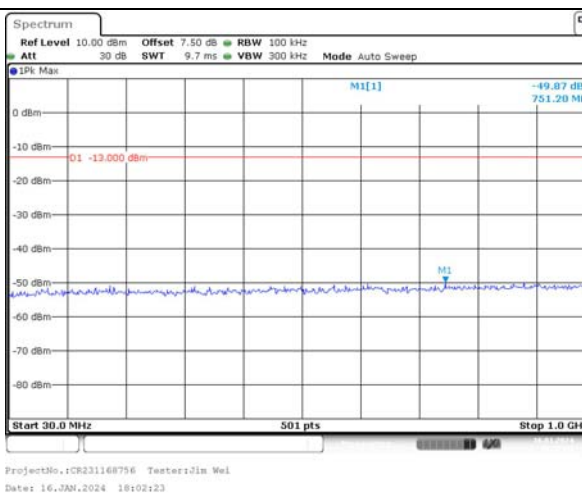
Lowest



Middle

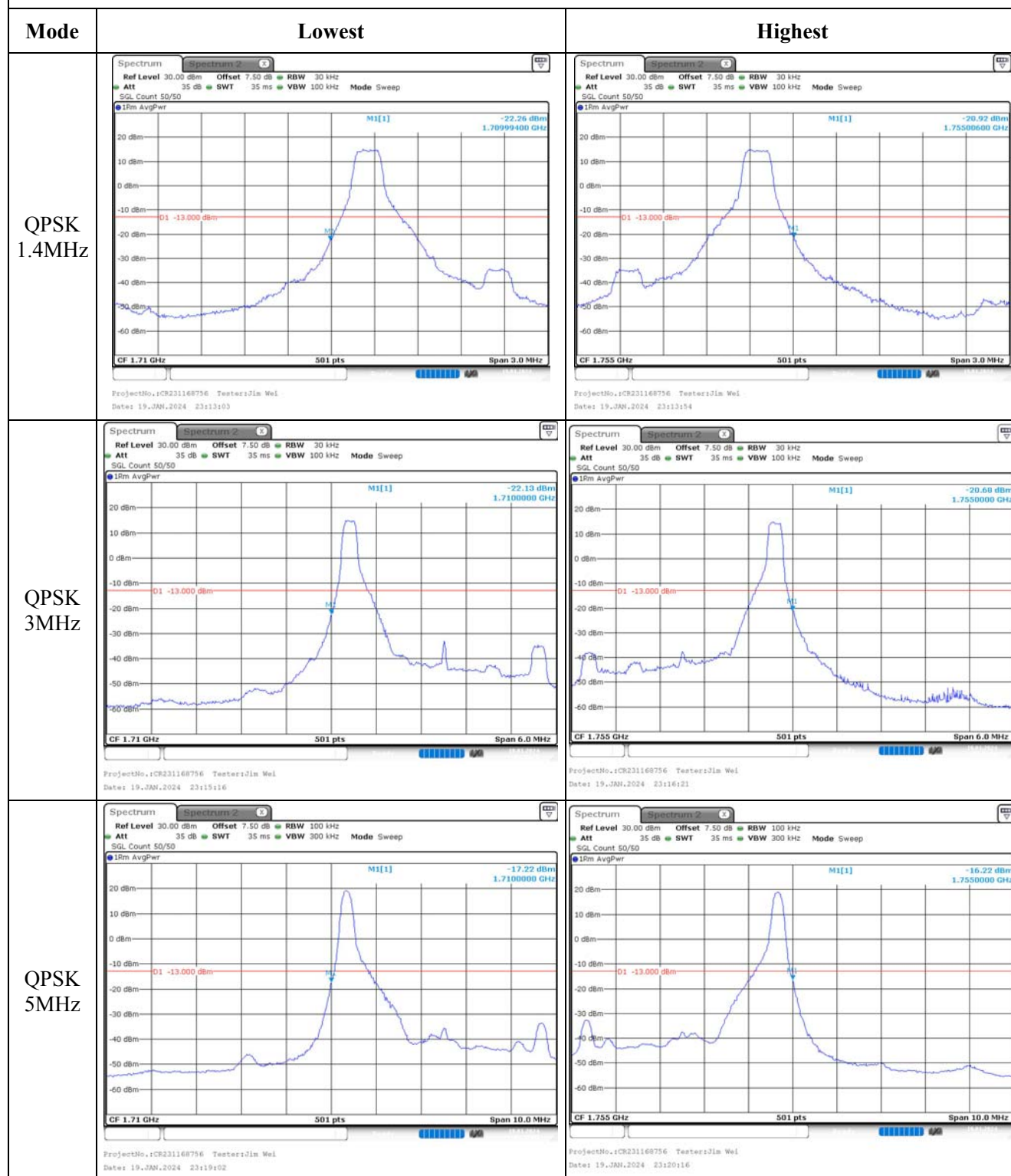


Highest

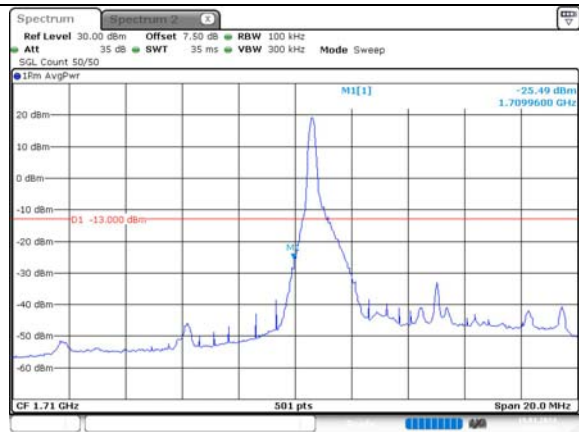
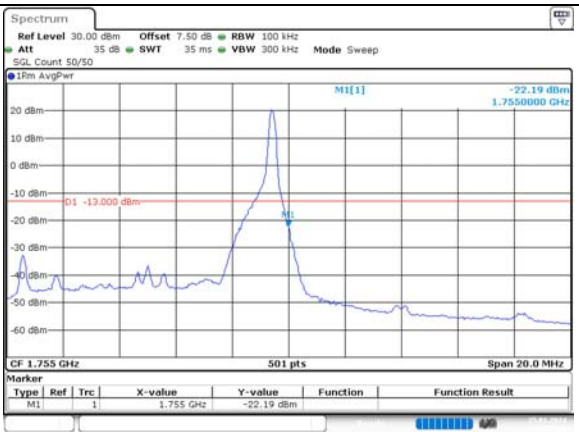
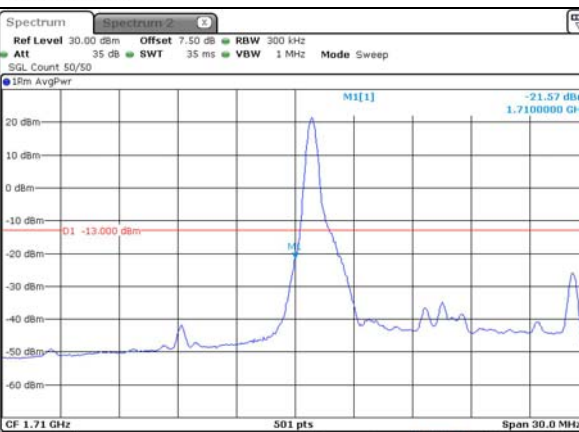
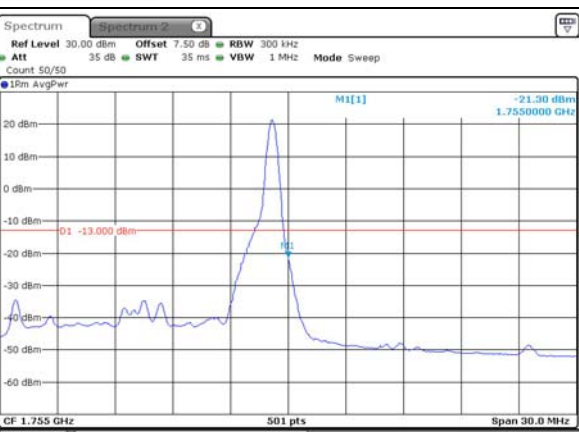
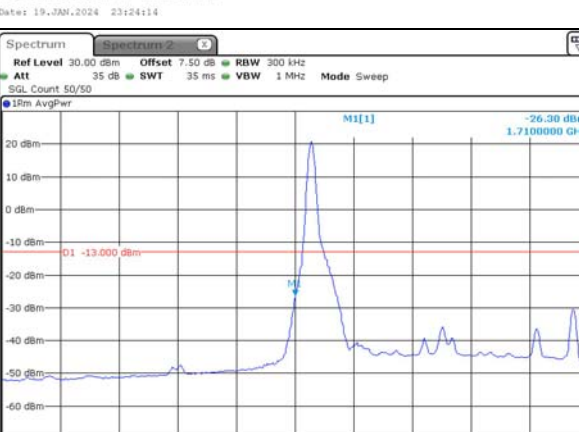
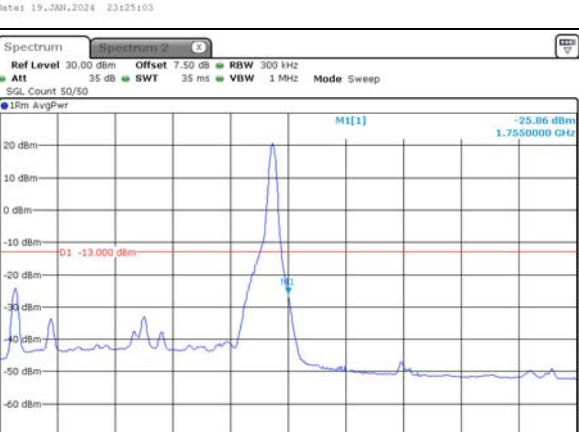


1RB:

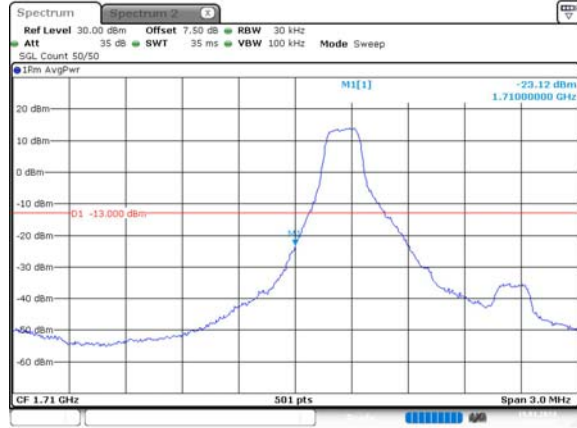
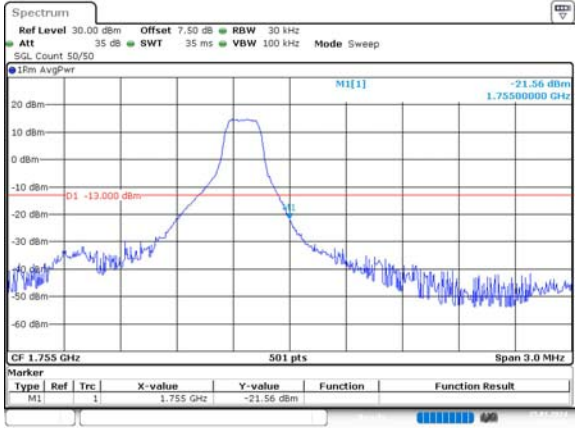
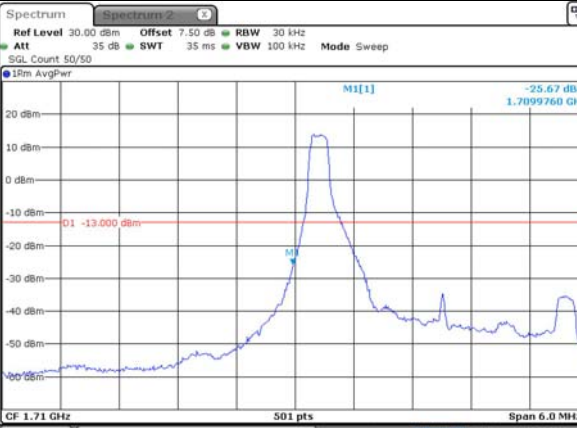
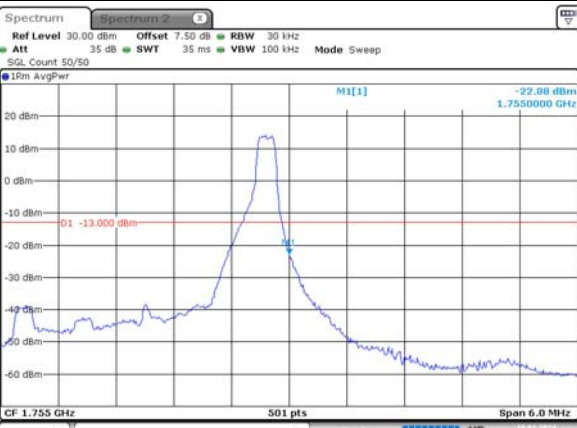
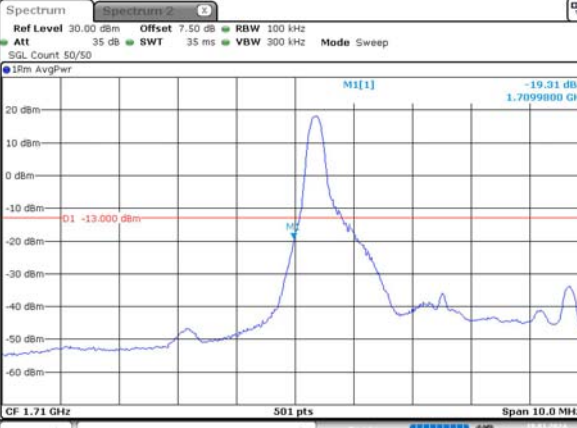
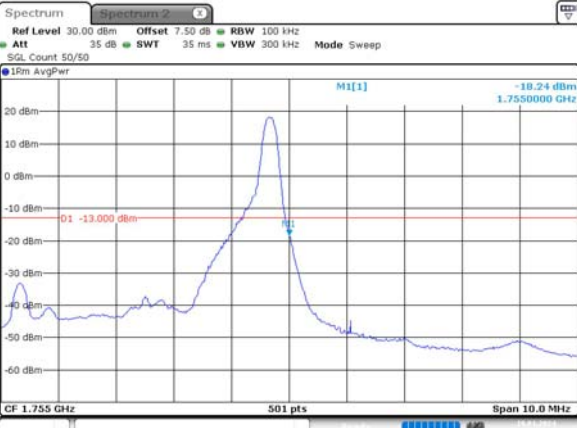
Out of band emission, Band Edge



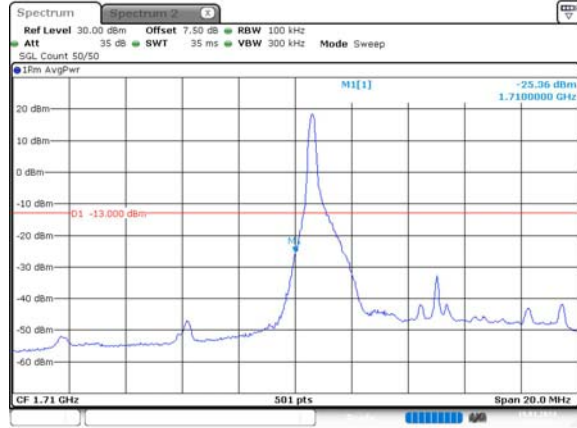
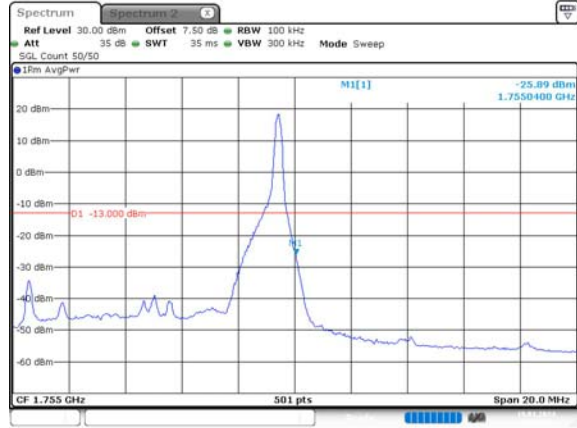
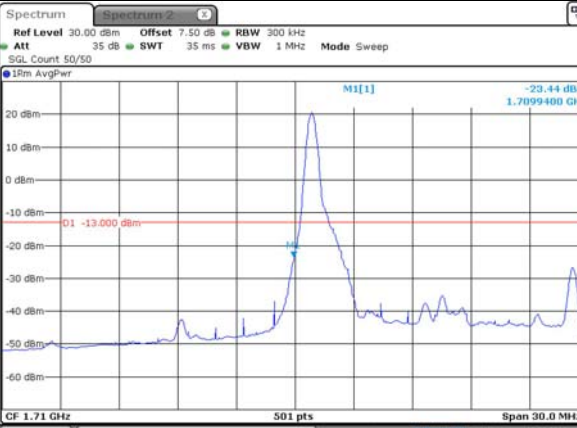
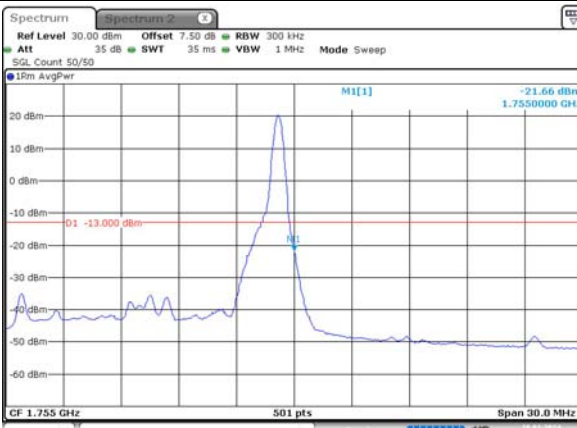
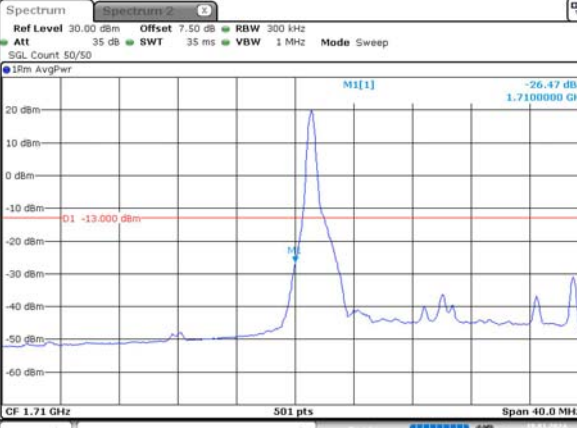
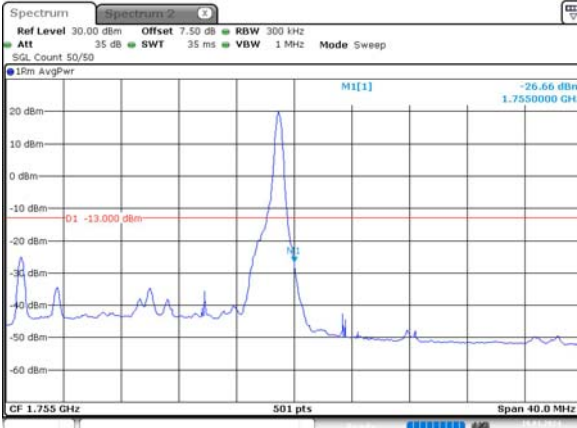
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -25.49 dBm 1.7099600 GHz CF 1.71 GHz 501 pts Span 20.0 MHz ProjectNo.:CR231168756 Tester:Jim Wei Date: 19.JAN.2024 23:21:29	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -22.19 dBm 1.7550000 GHz CF 1.755 GHz 501 pts Span 20.0 MHz Marker Type Ref Trc X-value Y-value Function Function Result M1 1 1.755 GHz -22.19 dBm ProjectNo.:CR231168756 Tester:Jim Wei Date: 25.JAN.2024 22:25:11
QPSK 15MHz	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -21.57 dBm 1.7100000 GHz CF 1.71 GHz 501 pts Span 30.0 MHz ProjectNo.:CR231168756 Tester:Jim Wei Date: 19.JAN.2024 23:24:14	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -21.30 dBm 1.7550000 GHz CF 1.755 GHz 501 pts Span 30.0 MHz ProjectNo.:CR231168756 Tester:Jim Wei Date: 19.JAN.2024 23:25:03
QPSK 20MHz	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -26.30 dBm 1.7100000 GHz CF 1.71 GHz 501 pts Span 40.0 MHz ProjectNo.:CR231168756 Tester:Jim Wei Date: 19.JAN.2024 23:28:33	 Spectrum 2 Ref Level 30.00 dBm Offset 7.50 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SQL Count 50/50 1Rm AvgPwr M1[1] -25.06 dBm 1.7550000 GHz CF 1.755 GHz 501 pts Span 40.0 MHz ProjectNo.:CR231168756 Tester:Jim Wei Date: 19.JAN.2024 23:29:29

Out of band emission, Band Edge

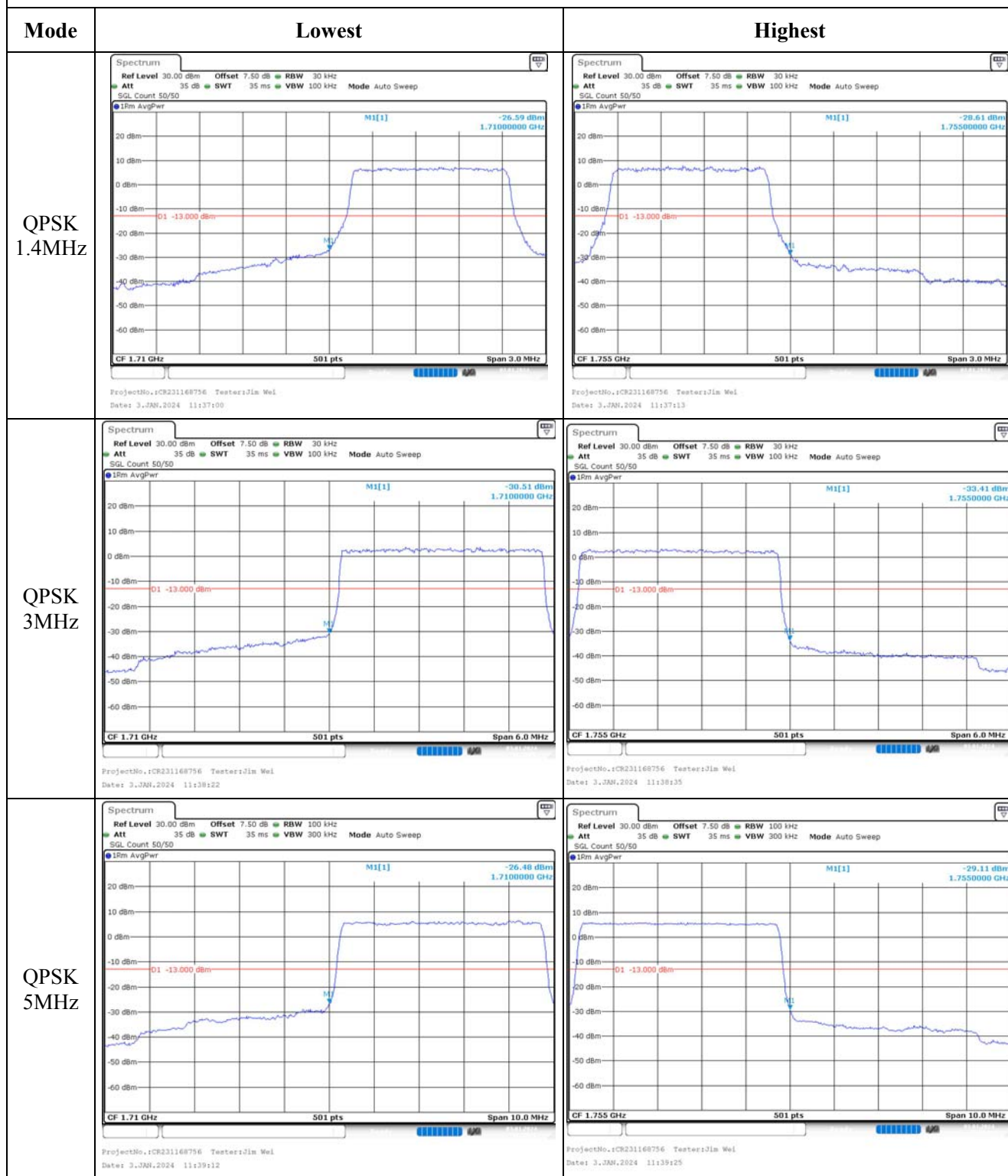
Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:13:28	 ProjectNo.:CR231168756 TestersJlm Wei Date: 25-JAN-2024 22:23:32
16QAM 3MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:15:39	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:18:18
16QAM 5MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:19:38	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:20:42

Out of band emission, Band Edge

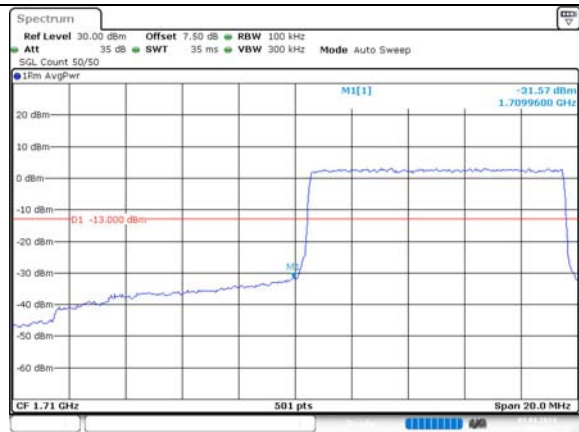
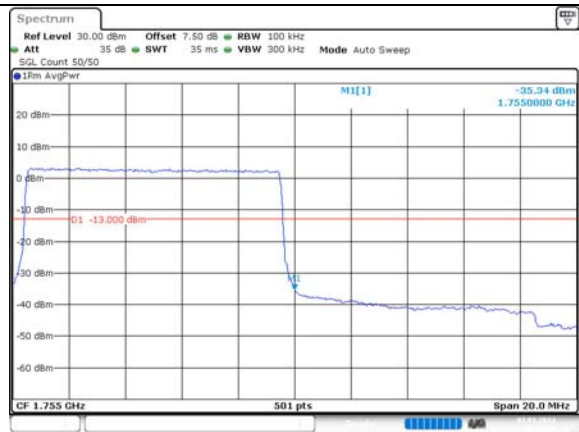
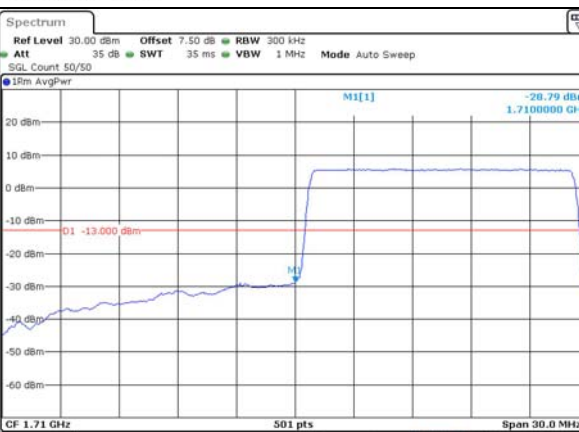
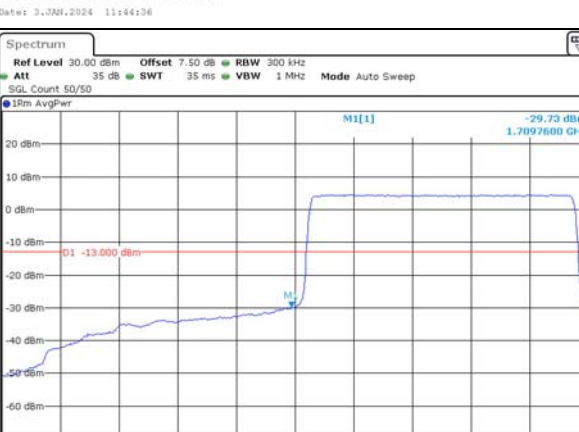
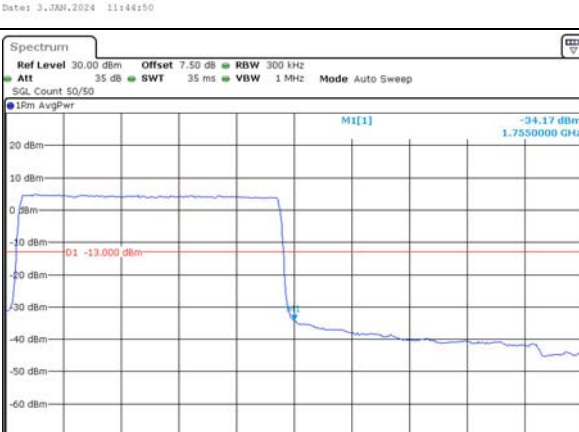
Mode	Lowest	Highest
16QAM 10MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:21:52	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:23:24
16QAM 15MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:24:40	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:25:29
16QAM 20MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:26:57	 ProjectNo.:CR231168756 TestersJlm Wei Date: 19-JAN-2024 23:29:54

Full RB:

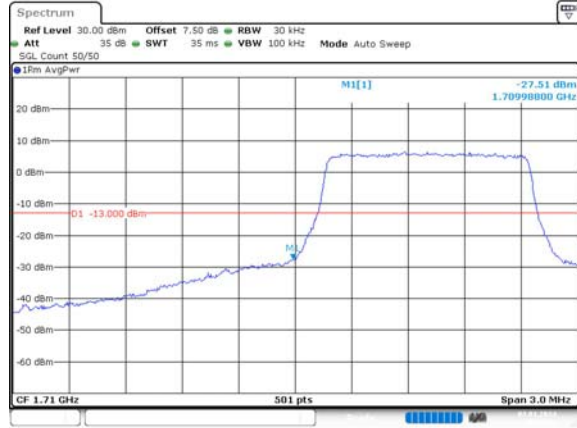
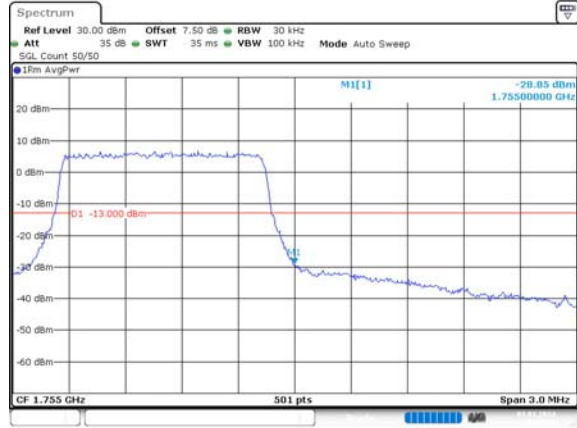
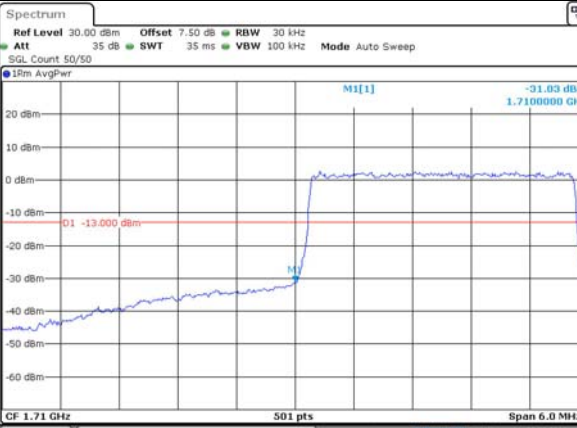
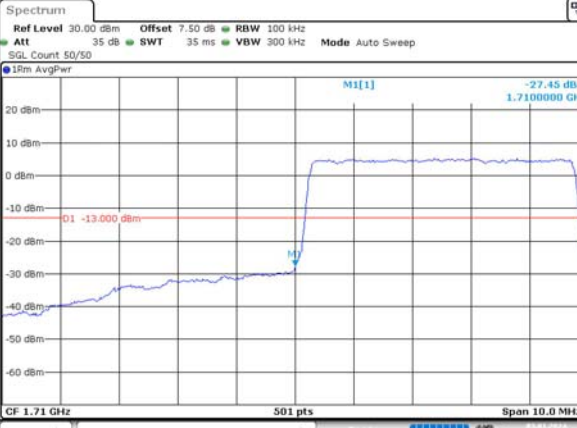
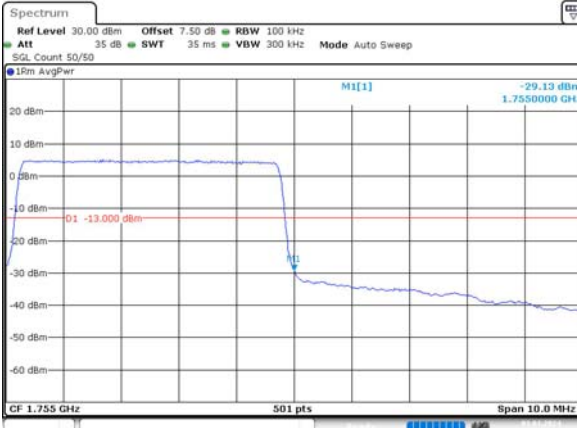
Out of band emission, Band Edge



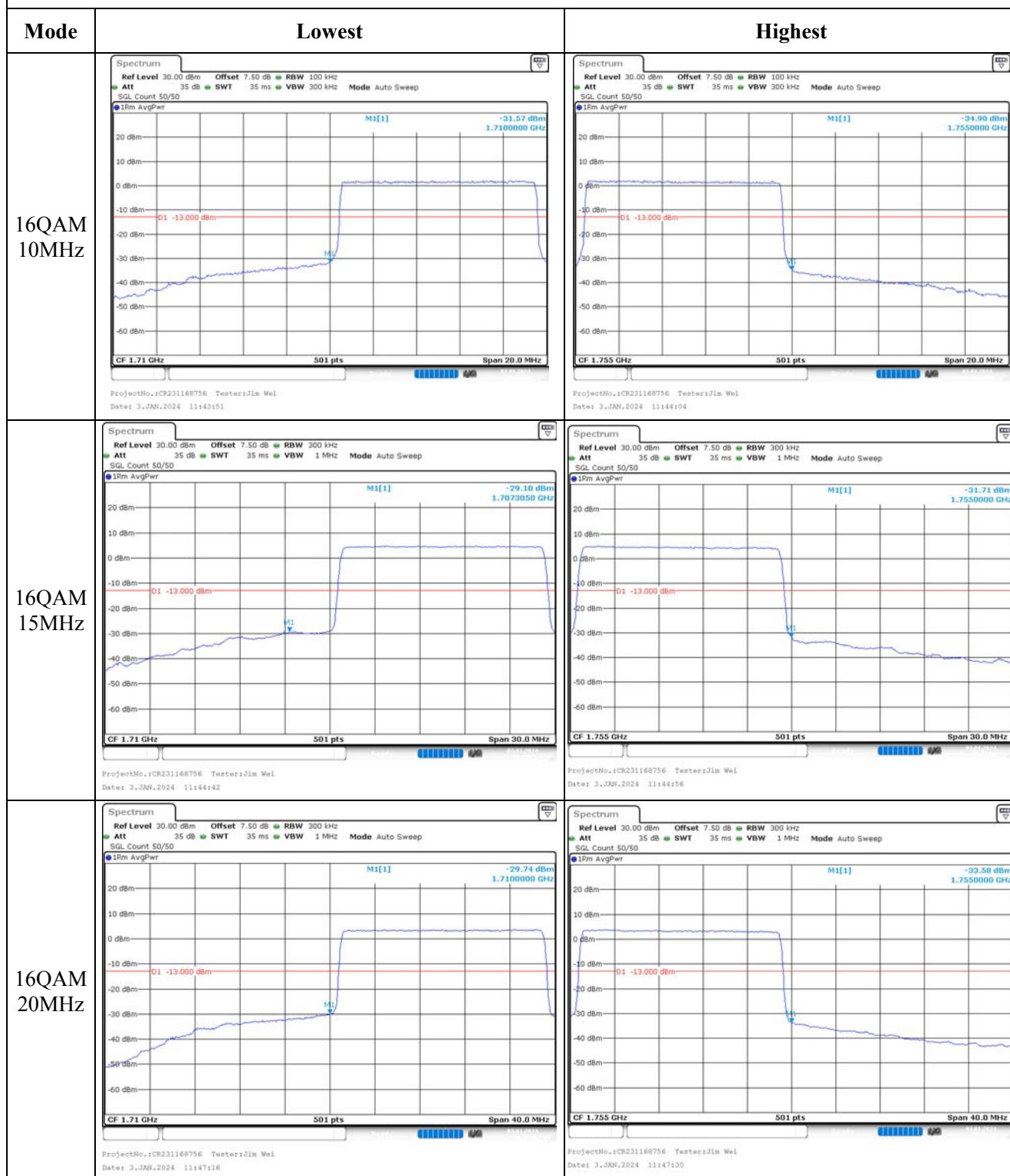
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:43:45	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:43:58
QPSK 15MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:44:36	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:44:50
QPSK 20MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:47:09	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:47:23

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:37:06	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:37:18
16QAM 3MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:38:29	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:38:41
16QAM 5MHz	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:39:18	 ProjectNo.:CR231168756 TestersJlm Wei Date: 3.JAN.2024 11:39:31

Out of band emission, Band Edge



4.8 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	2DYK-1	Test Date:	2024/1/2-2024/3/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5~26.5	Relative Humidity: (%)	40~55	ATM Pressure: (kPa)	101.1-101.9
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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	2023/3/31	2024/3/30
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	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
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 (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

Test Data:**RF Output Power**

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.60	22.52	22.52	20.48	38.45
	RB1#3	22.73	22.69	22.84		
	RB1#5	22.56	22.50	22.66		
	RB3#0	22.67	22.64	22.63		
	RB3#3	22.71	22.59	22.62		
	RB6#0	21.64	21.58	21.66		
1.4MHz 16QAM	RB1#0	21.62	21.54	21.63	19.5	38.45
	RB1#3	21.82	21.57	21.86		
	RB1#5	21.67	21.50	21.70		
	RB3#0	21.81	21.81	21.62		
	RB3#3	21.81	21.81	21.60		
	RB6#0	20.61	20.61	20.73		
3MHz QPSK	RB1#0	22.80	22.78	22.74	20.47	38.45
	RB1#8	22.83	22.71	22.73		
	RB1#14	22.79	22.72	22.75		
	RB6#0	21.76	21.74	21.77		
	RB6#9	21.72	21.72	21.67		
	RB15#0	21.79	21.81	21.78		
3MHz 16QAM	RB1#0	21.85	22.36	21.90	20	38.45
	RB1#8	21.80	22.29	21.90		
	RB1#14	21.79	22.27	21.92		
	RB6#0	20.71	20.82	20.76		
	RB6#9	20.72	20.79	20.76		
	RB15#0	20.86	20.81	20.74		
5MHz QPSK	RB1#0	22.72	22.65	22.72	20.43	38.45
	RB1#13	22.79	22.77	22.75		
	RB1#24	22.71	22.64	22.65		
	RB15#0	21.79	21.74	21.78		
	RB15#10	21.79	21.69	21.77		
	RB25#0	21.73	21.72	21.69		
5MHz 16QAM	RB1#0	21.79	21.58	21.97	19.69	38.45
	RB1#13	21.86	21.68	22.05		
	RB1#24	21.75	21.55	21.96		
	RB15#0	20.81	20.79	20.81		
	RB15#10	20.84	20.73	20.72		
	RB25#0	20.80	20.75	20.74		
10MHz QPSK	RB1#0	22.78	22.75	22.74	20.55	38.45
	RB1#25	22.91	22.87	22.82		
	RB1#49	22.75	22.76	22.69		

10MHz 16QAM	RB25#0	21.81	21.84	21.78	20.14	38.45
	RB25#25	21.80	21.74	21.70		
	RB50#0	21.81	21.80	21.73		
	RB1#0	22.43	21.89	21.72		
	RB1#25	22.50	22.06	21.87		
	RB1#49	22.27	21.93	21.63		
	RB25#0	20.85	20.90	20.64		
	RB25#25	20.83	20.81	20.56		
	RB50#0	20.79	20.80	20.81		

Note:

ERP= Conducted Power(dBm) - Lc(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	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	5.36	5.19	5.33	13
	RB50#0	5.30	5.39	5.48	13
10MHz 16QAM	RB1#0	6.09	5.83	6.35	13
	RB50#0	6.20	6.17	6.43	13
Result:					Pass

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	1.096	1.338	1.290	1.302
1.4MHz 16QAM	1.096	1.096	1.096	1.428	1.296	1.326
3MHz QPSK	2.683	2.683	2.683	2.880	2.880	2.880
3MHz 16QAM	2.683	2.683	2.683	2.880	2.892	2.880
5MHz QPSK	4.491	4.511	4.511	4.920	4.940	4.960
5MHz 16QAM	4.491	4.471	4.511	4.980	4.900	4.960
10MHz QPSK	8.942	8.981	8.942	9.600	9.640	9.720
10MHz 16QAM	8.942	8.981	8.942	9.600	9.640	9.600

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

Spurious Emissions at Antenna Terminal

Result:	Pass, 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:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	-2.62	-0.003	2.5
	-20	3.8	-6.97	-0.008	2.5
	-10	3.8	-5.50	-0.007	2.5
	0	3.8	6.06	0.007	2.5
	10	3.8	9.80	0.012	2.5
	20	3.8	5.03	0.006	2.5
	30	3.8	-6.62	-0.008	2.5
	40	3.8	-8.73	-0.010	2.5
	50	3.8	-7.05	-0.008	2.5
Frequency Stability vs. Voltage	20	3.23	8.99	0.011	2.5
	20	4.18	-7.17	-0.009	2.5
				Result:	Pass

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	-5.01	-0.006	2.5
	-20	3.8	8.10	0.010	2.5
	-10	3.8	-8.59	-0.010	2.5
	0	3.8	9.33	0.011	2.5
	10	3.8	-6.94	-0.008	2.5
	20	3.8	7.54	0.009	2.5
	30	3.8	6.43	0.008	2.5
	40	3.8	-6.17	-0.007	2.5
	50	3.8	-6.44	-0.008	2.5
Frequency Stability vs. Voltage	20	3.23	6.34	0.008	2.5
	20	4.18	-6.89	-0.008	2.5
				Result:	Pass

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

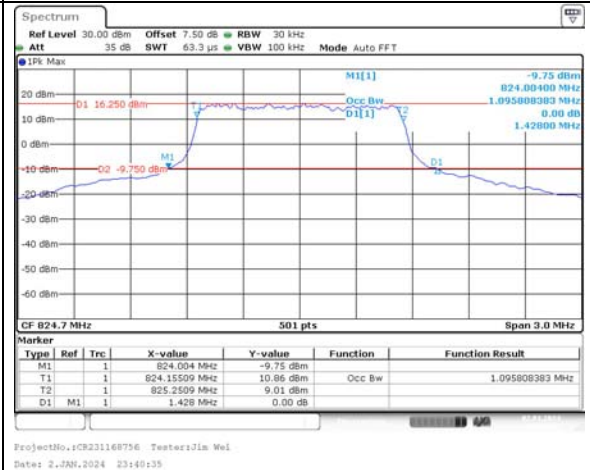
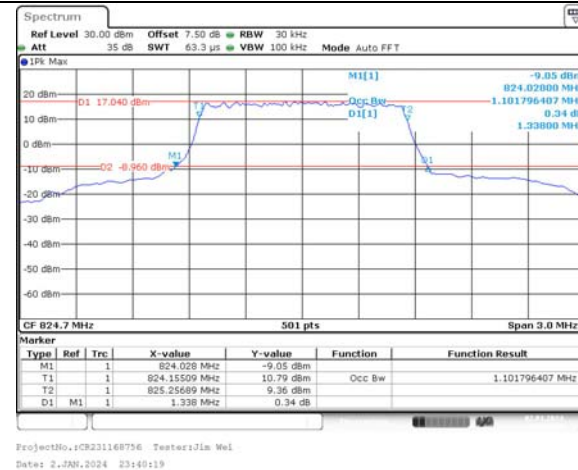
Occupied Bandwidth

Channel

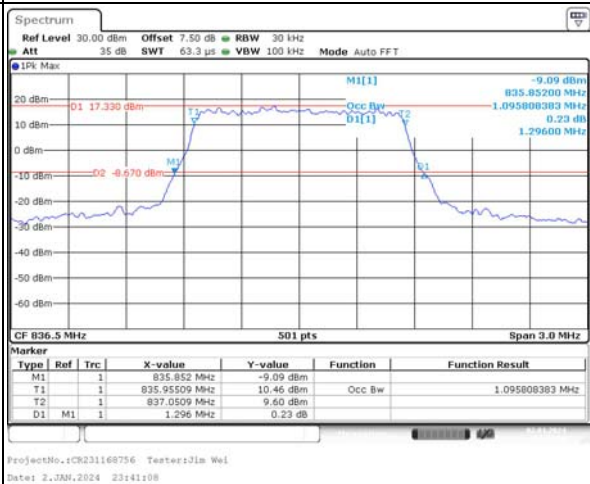
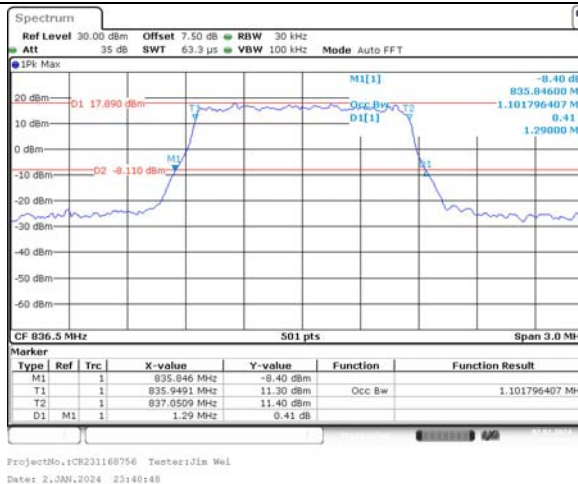
1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

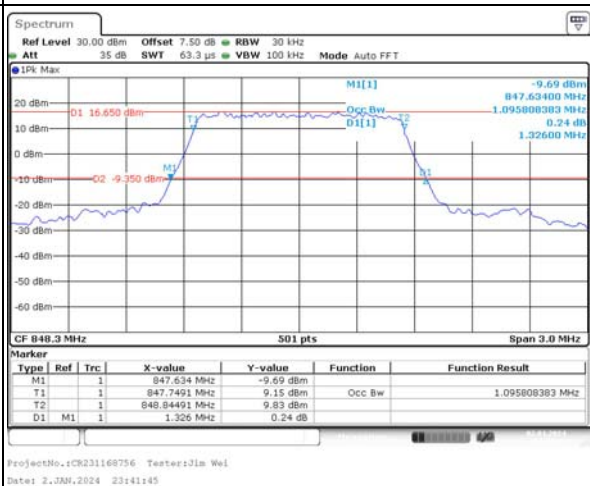
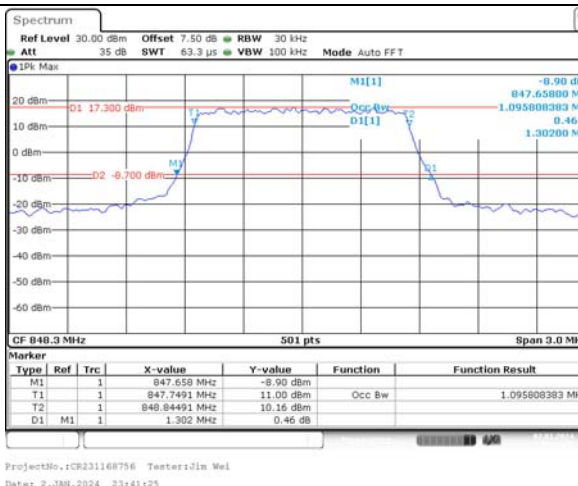
Lowest



Middle



Highest



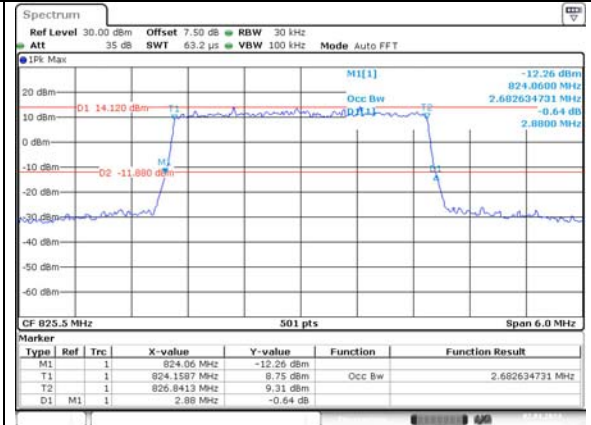
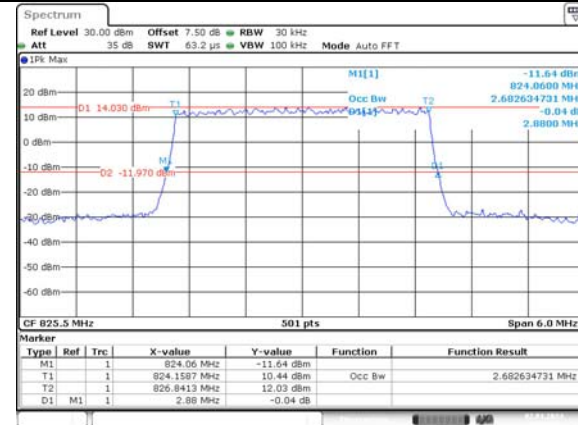
Occupied Bandwidth

Channel

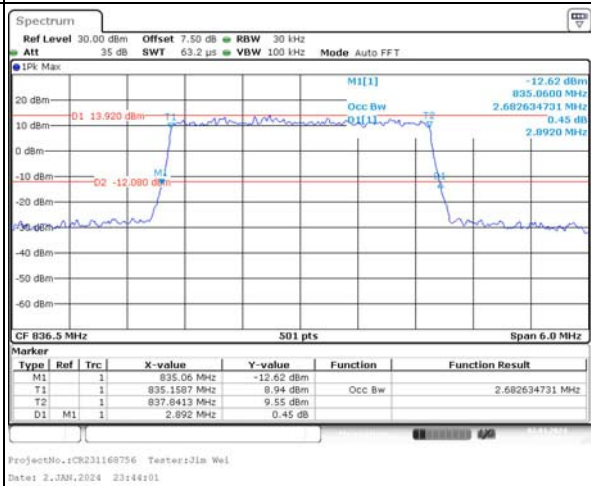
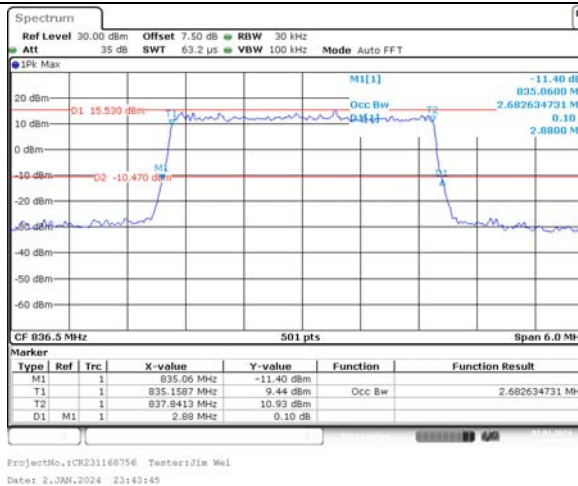
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

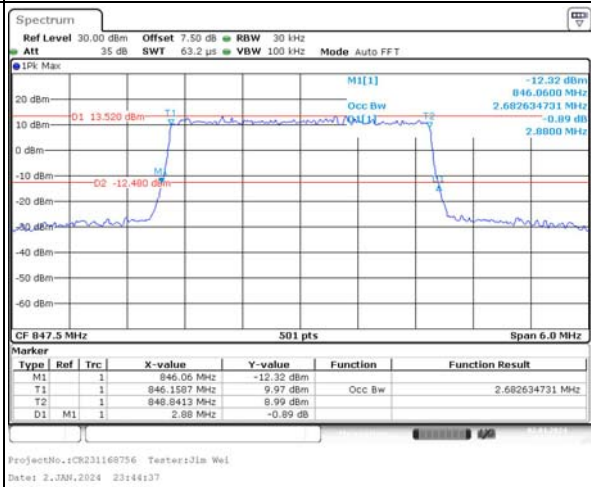
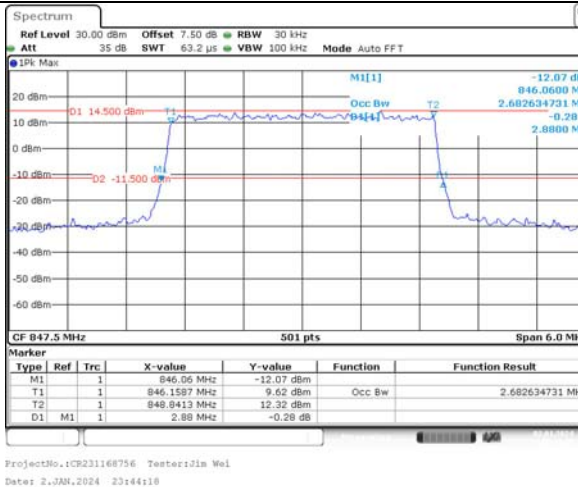
Lowest



Middle



Highest



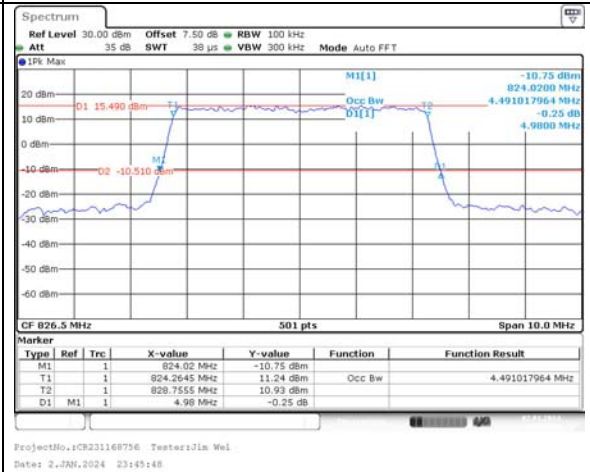
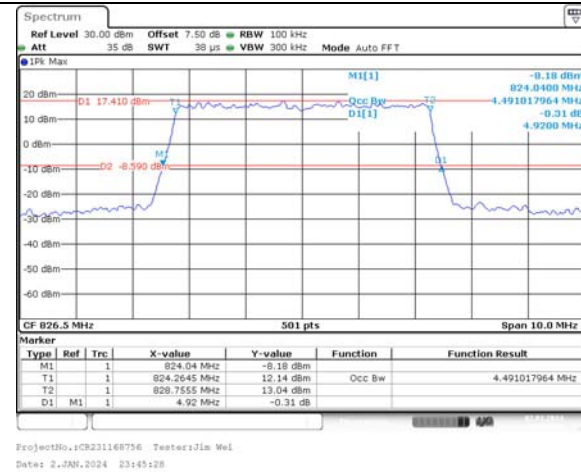
Occupied Bandwidth

Channel

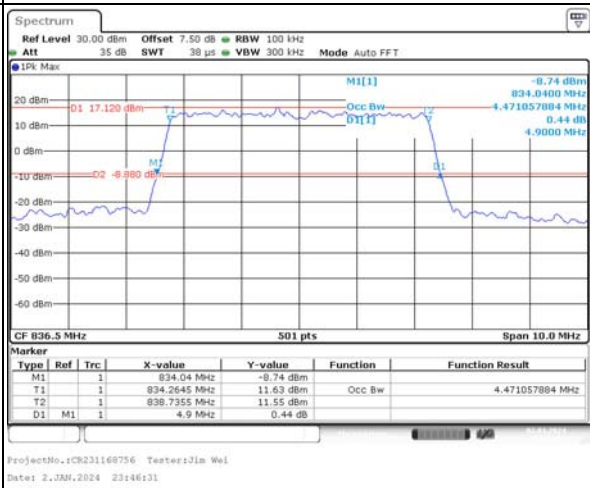
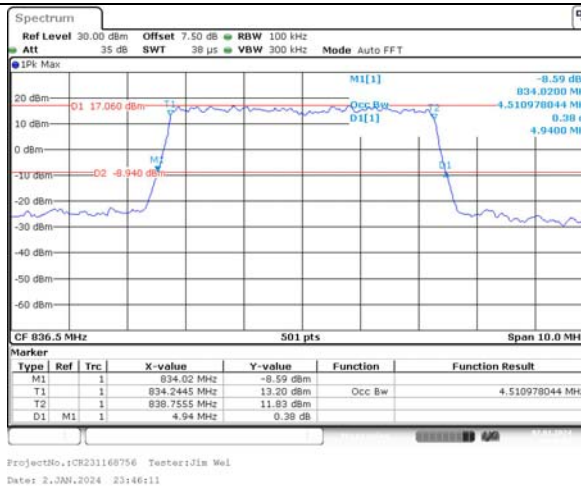
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

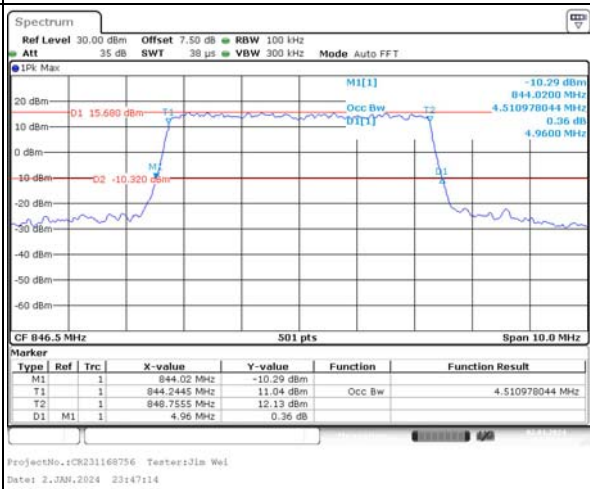
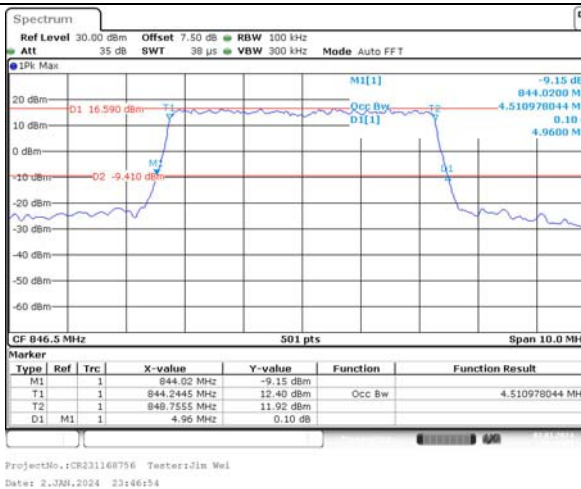
Lowest



Middle



Highest



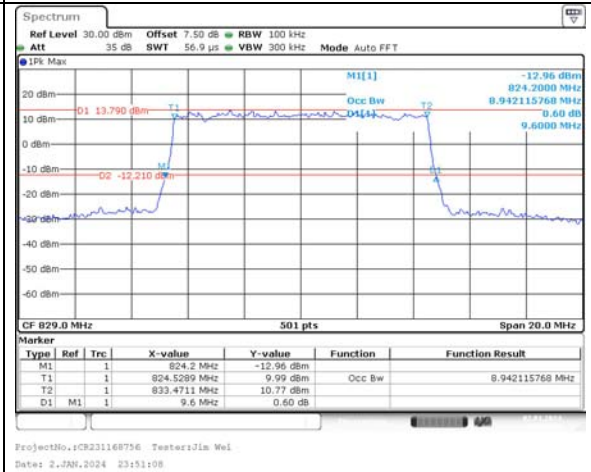
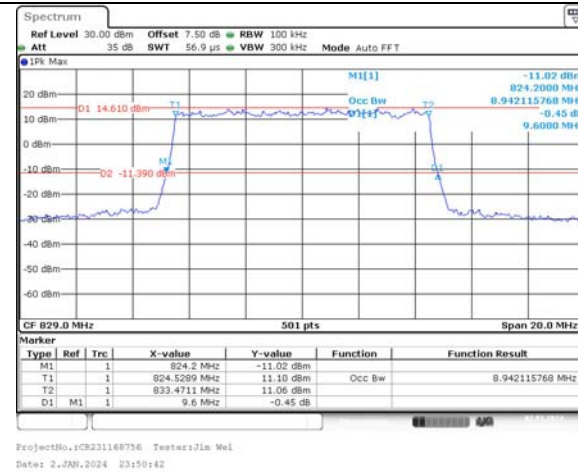
Occupied Bandwidth

Channel

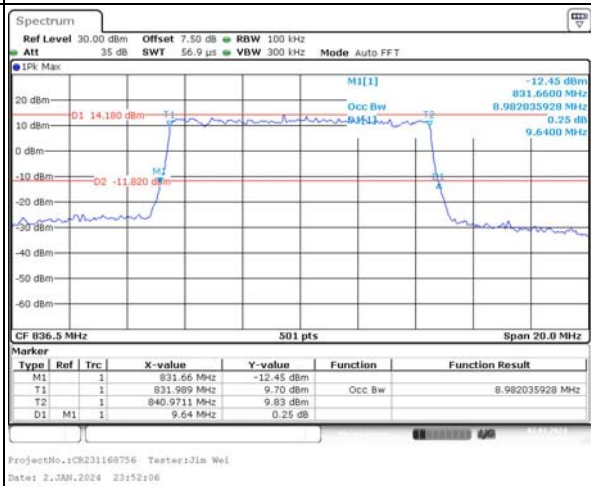
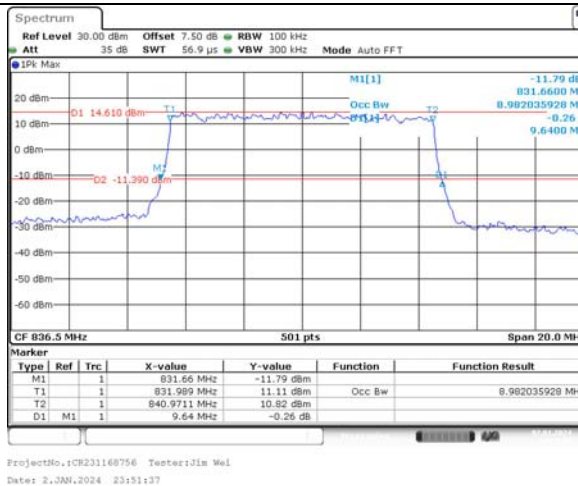
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

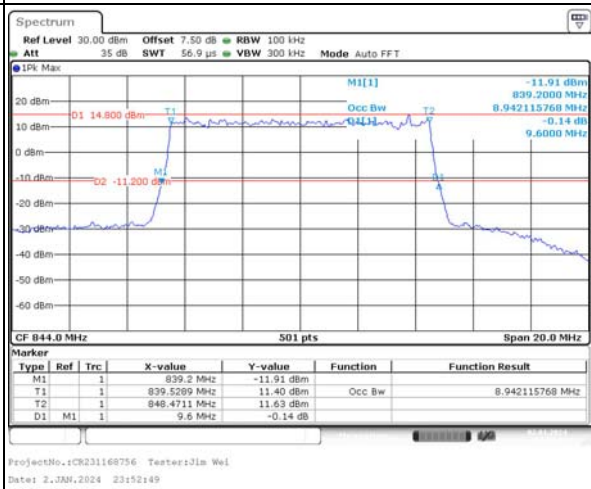
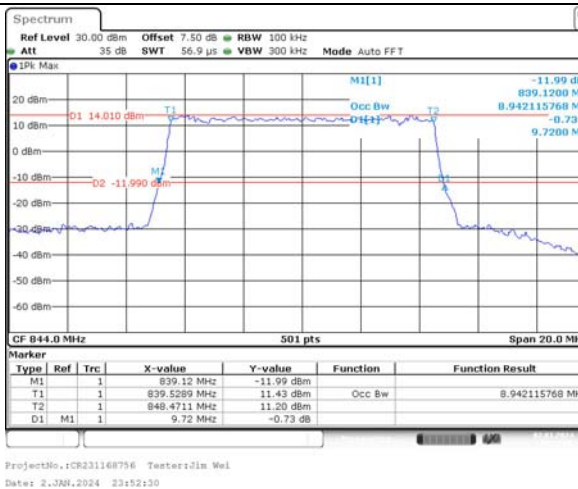
Lowest



Middle



Highest



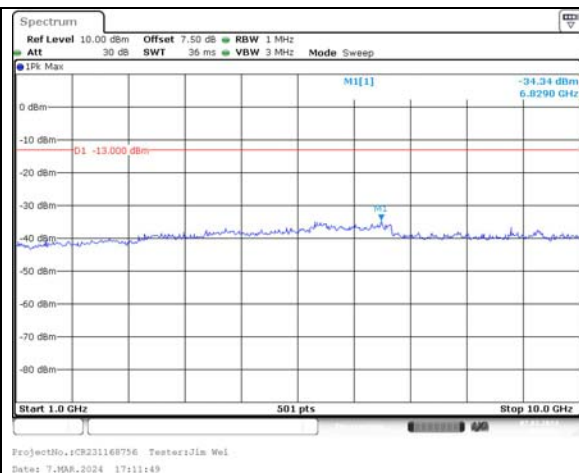
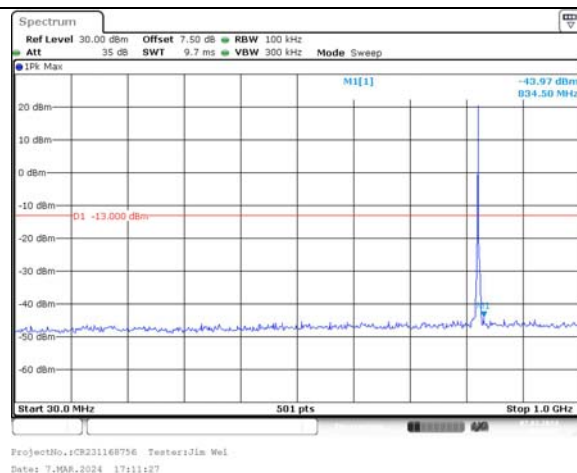
RB1#0:

Spurious Emissions at Antenna Terminal

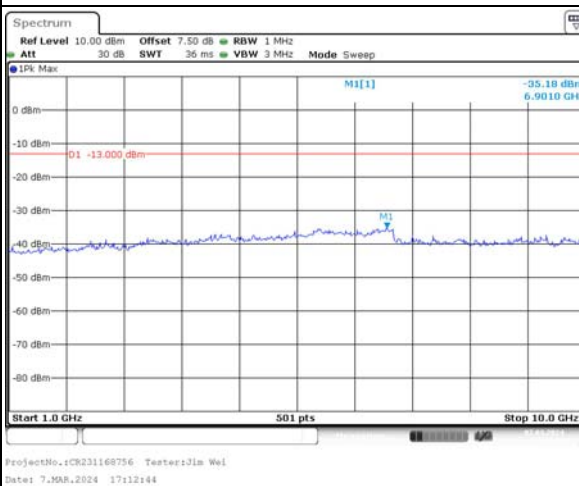
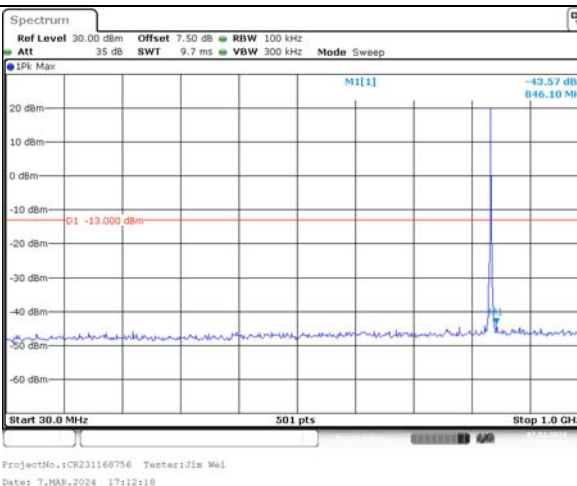
Channel

1.4MHz Bandwidth QPSK

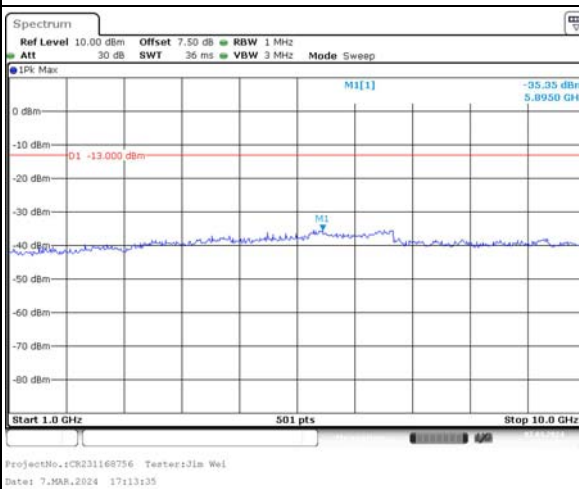
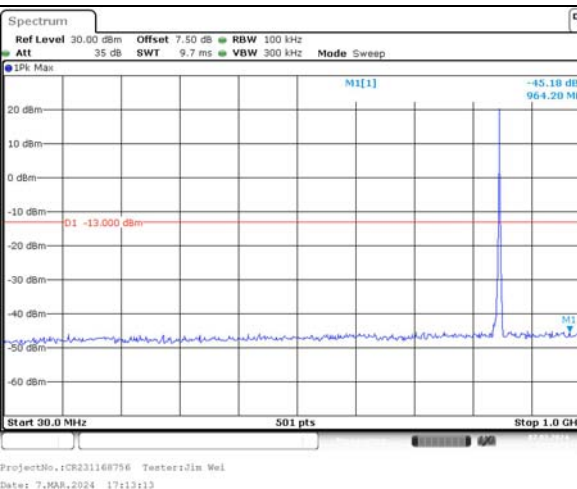
Lowest



Middle



Highest

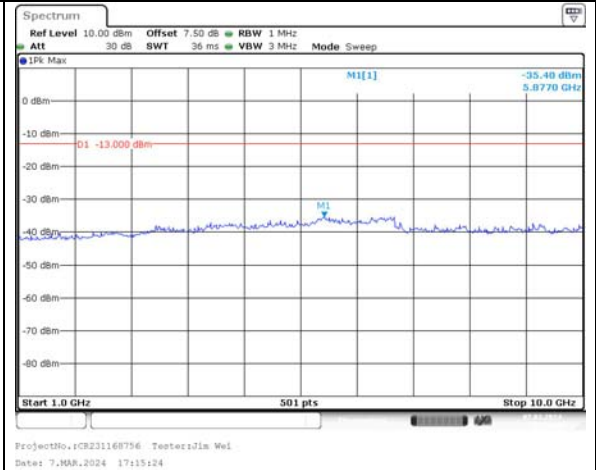
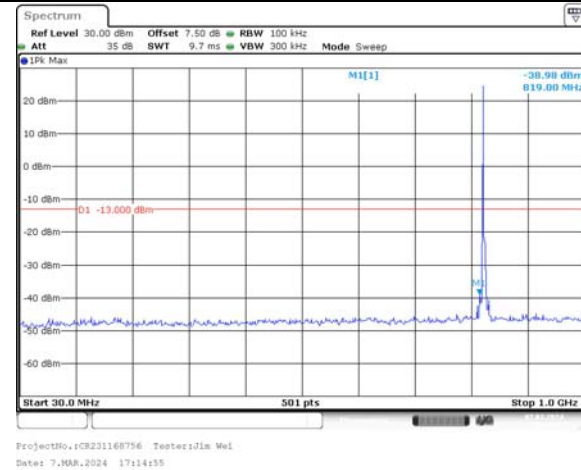


Spurious Emissions at Antenna Terminal

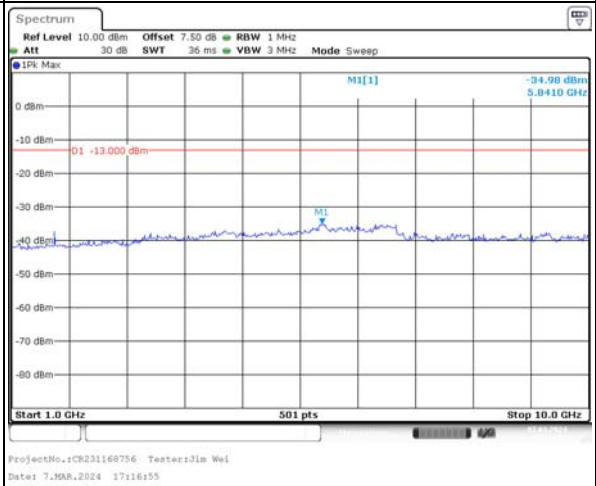
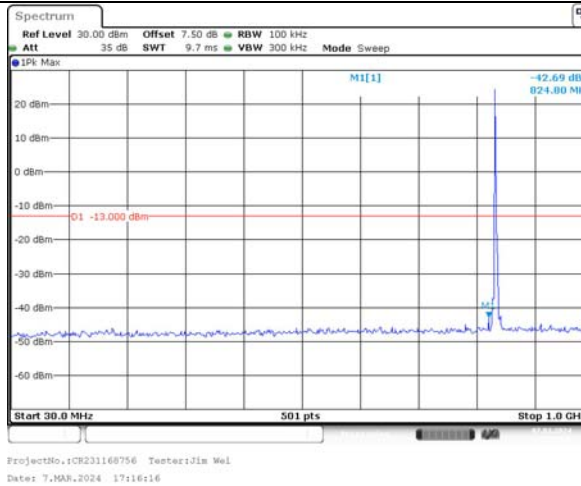
Channel

3MHz Bandwidth QPSK

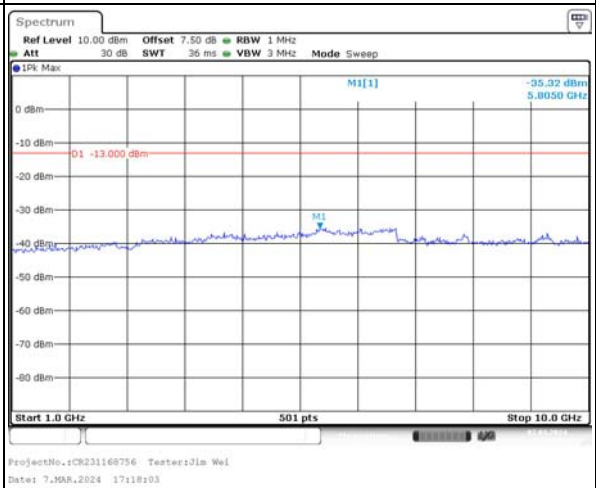
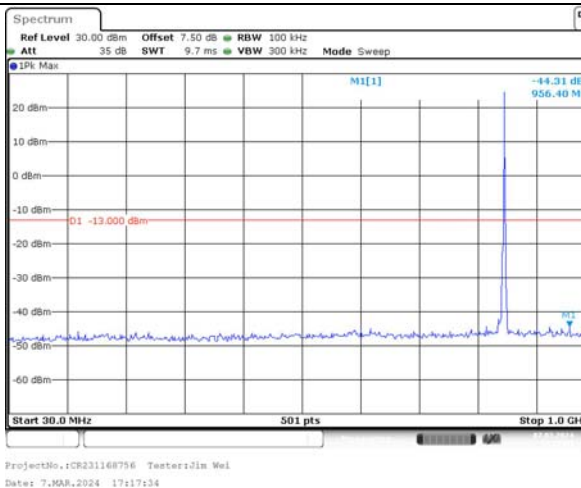
Lowest



Middle



Highest

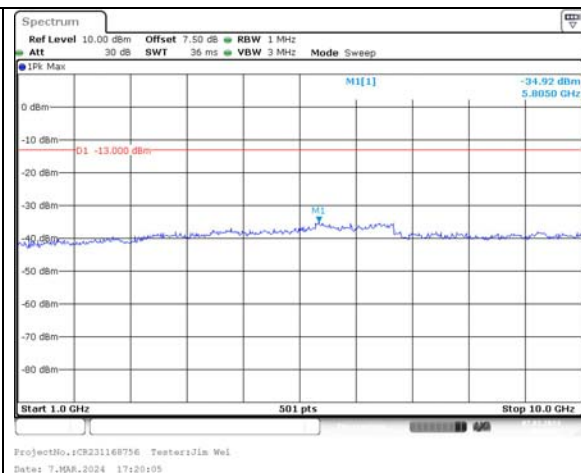
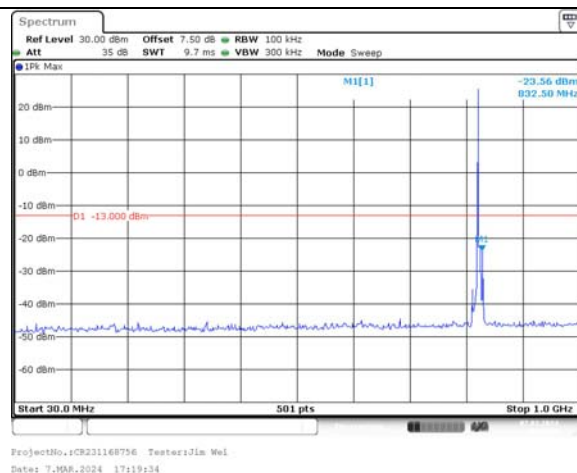


Spurious Emissions at Antenna Terminal

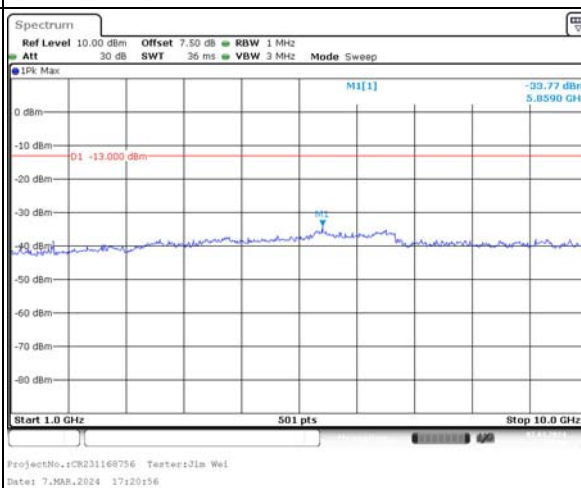
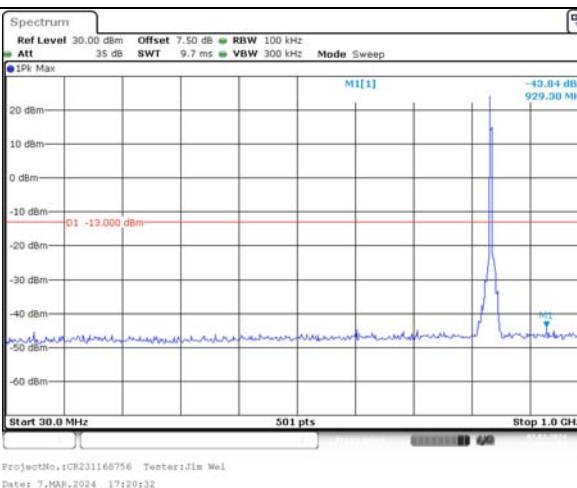
Channel

5MHz Bandwidth QPSK

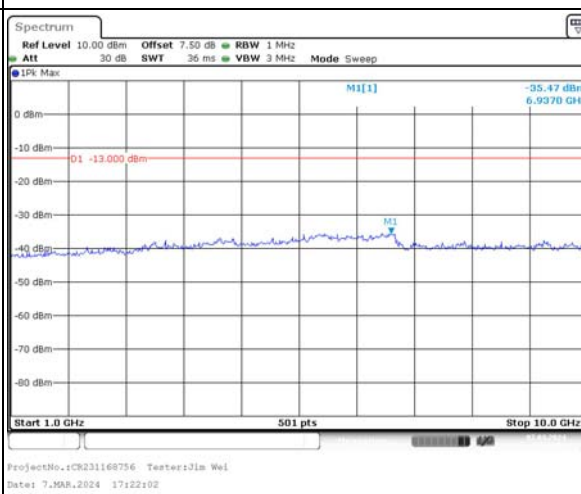
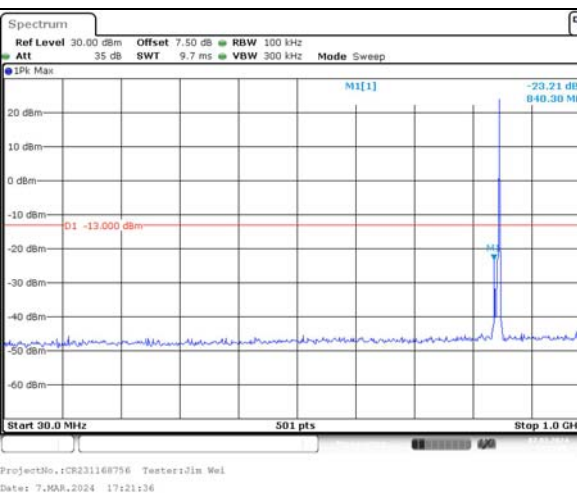
Lowest



Middle



Highest

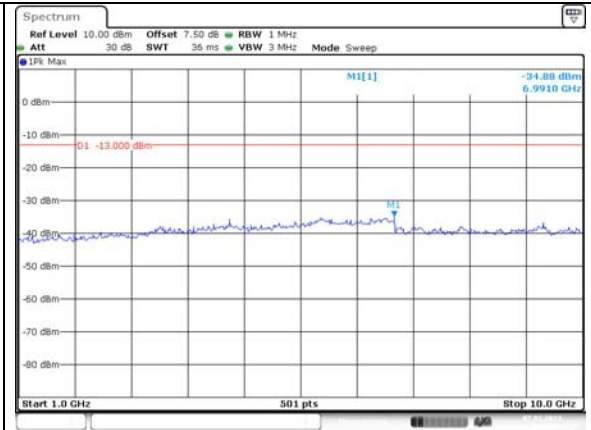
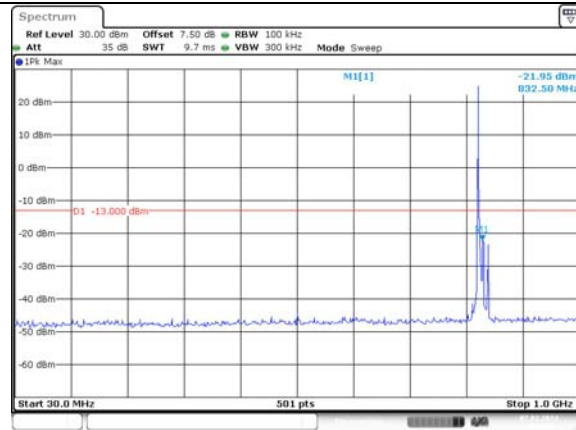


Spurious Emissions at Antenna Terminal

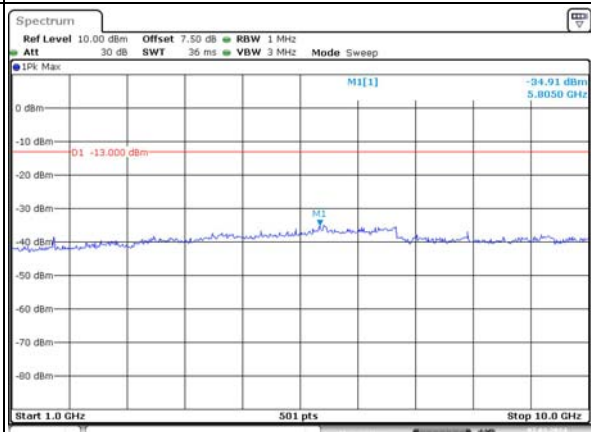
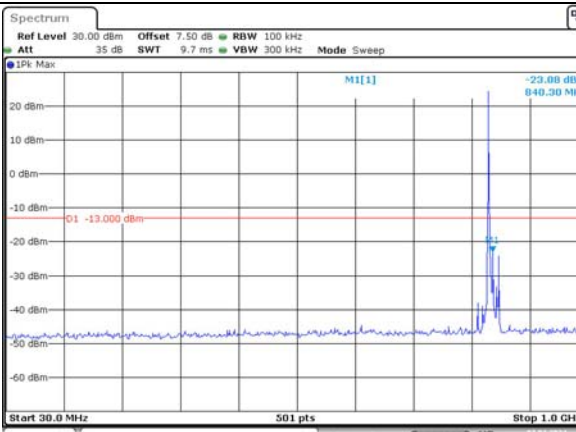
Channel

10MHz Bandwidth QPSK

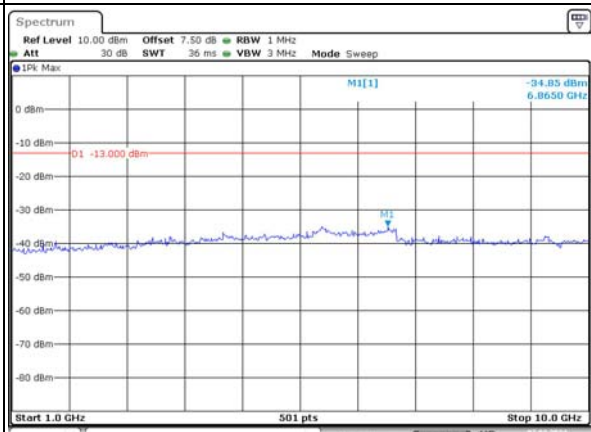
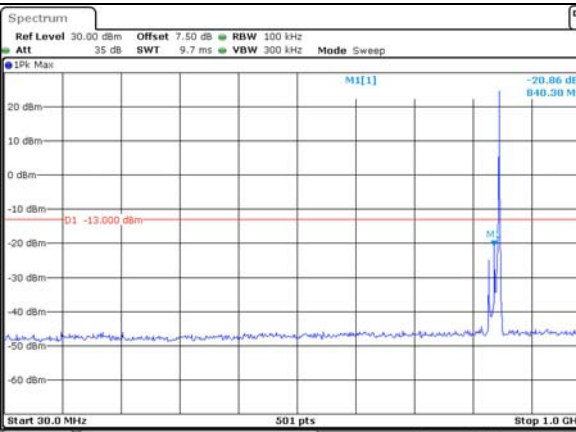
Lowest



Middle

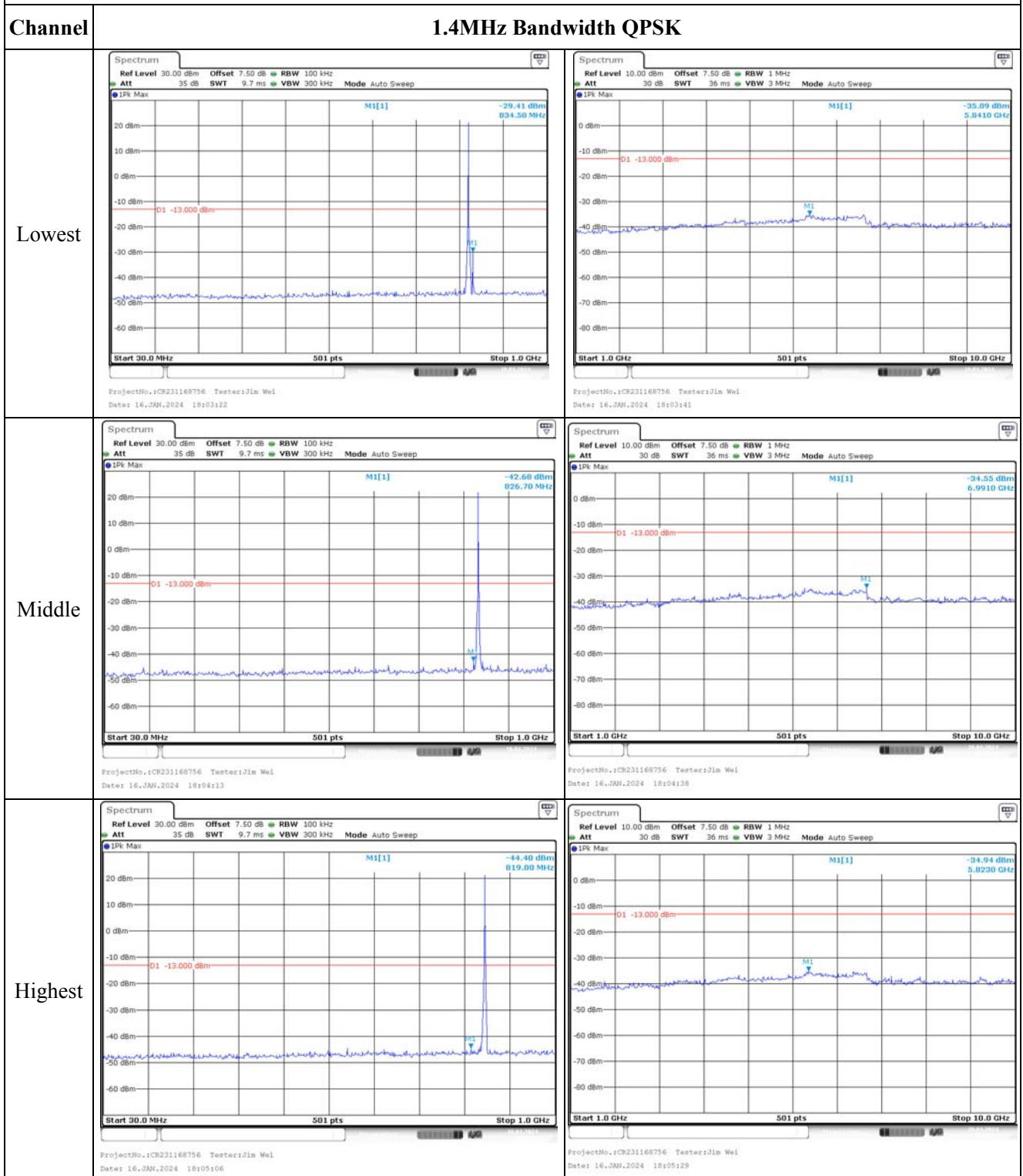


Highest



Full RB:

Spurious Emissions at Antenna Terminal

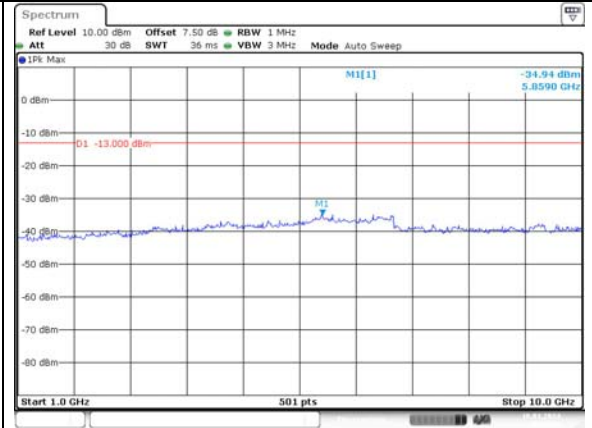
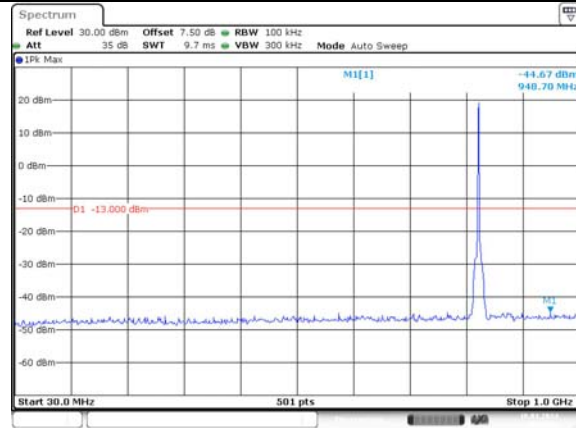


Spurious Emissions at Antenna Terminal

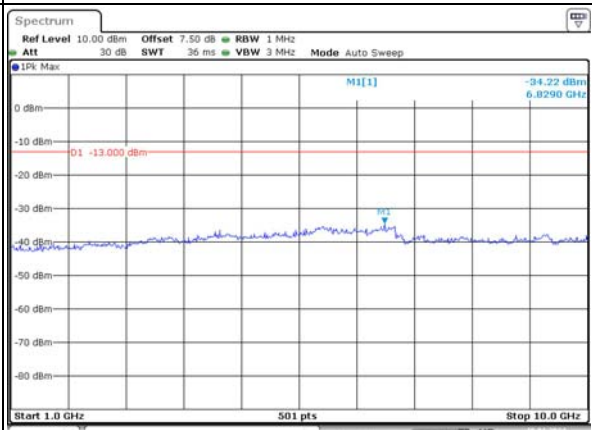
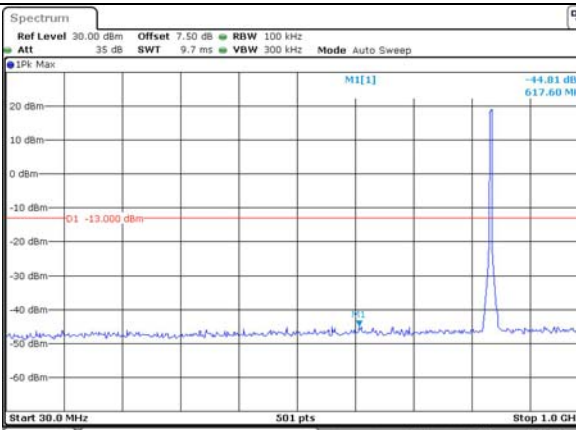
Channel

3MHz Bandwidth QPSK

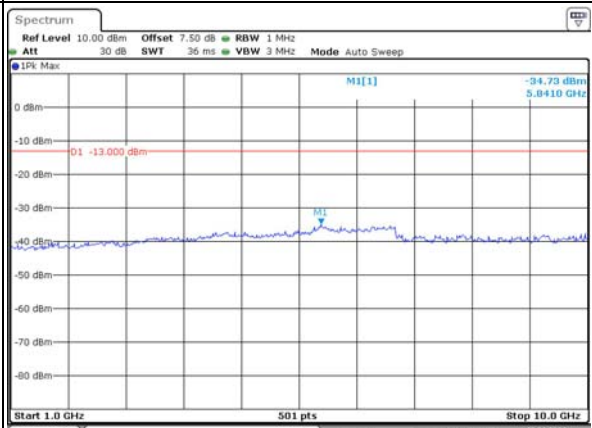
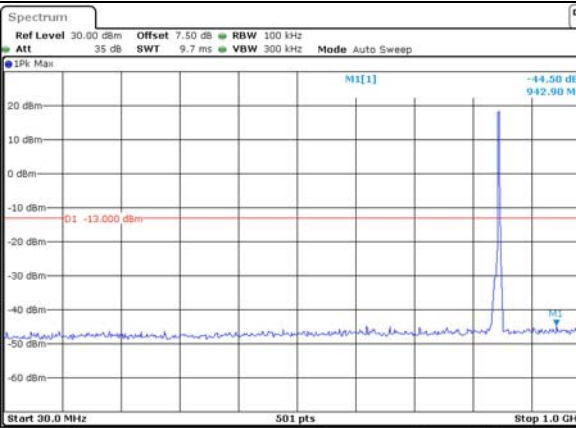
Lowest



Middle



Highest

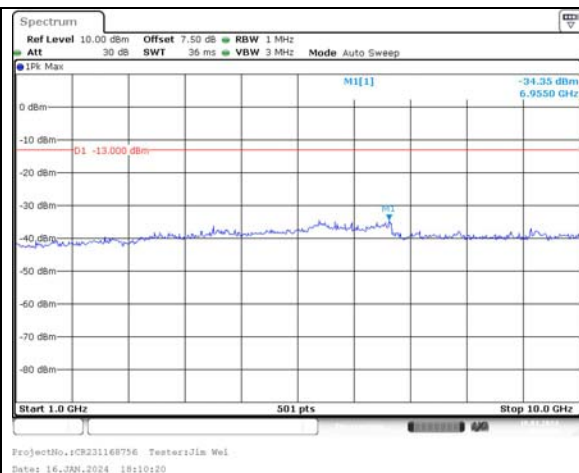
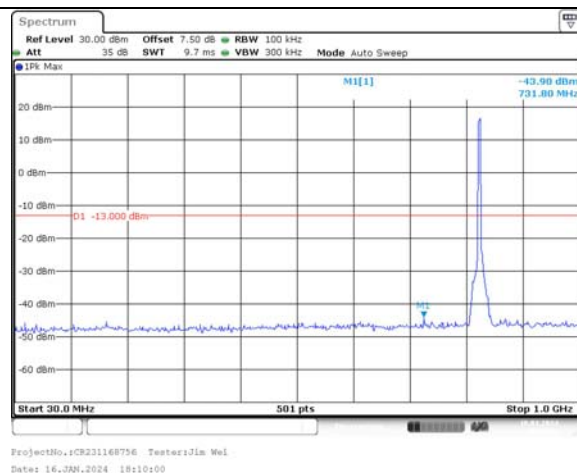


Spurious Emissions at Antenna Terminal

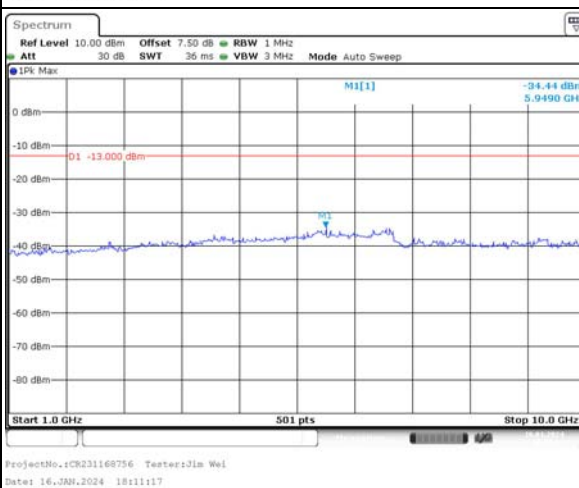
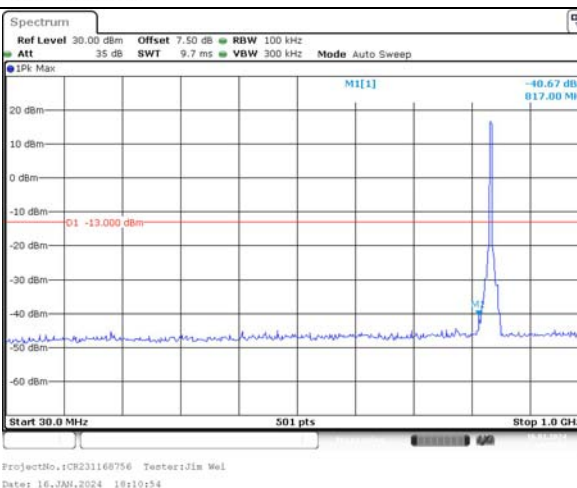
Channel

5MHz Bandwidth QPSK

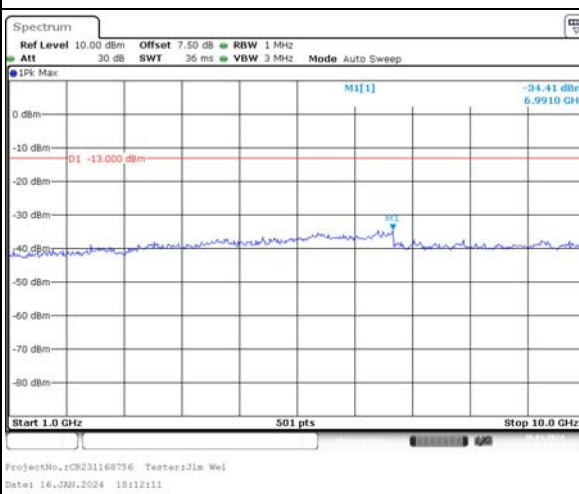
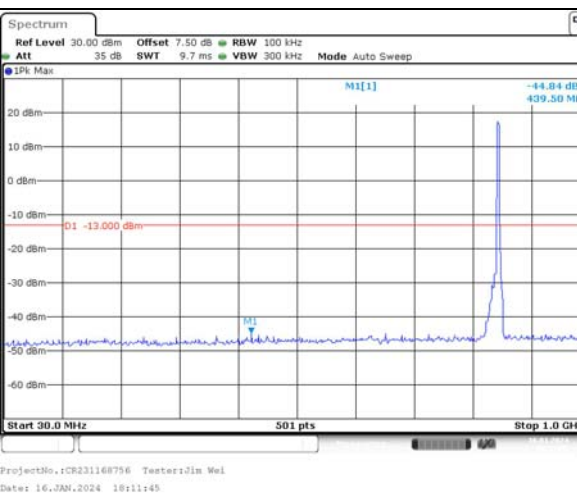
Lowest



Middle



Highest

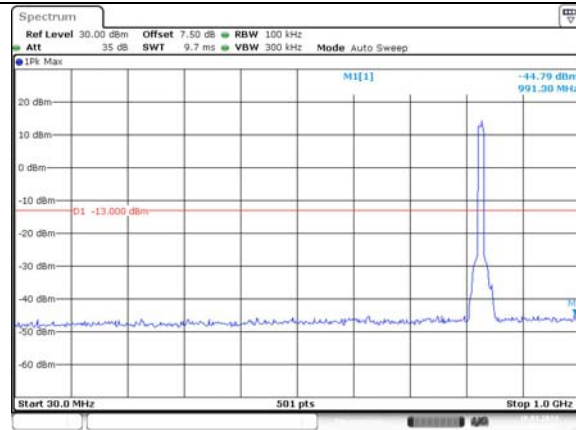


Spurious Emissions at Antenna Terminal

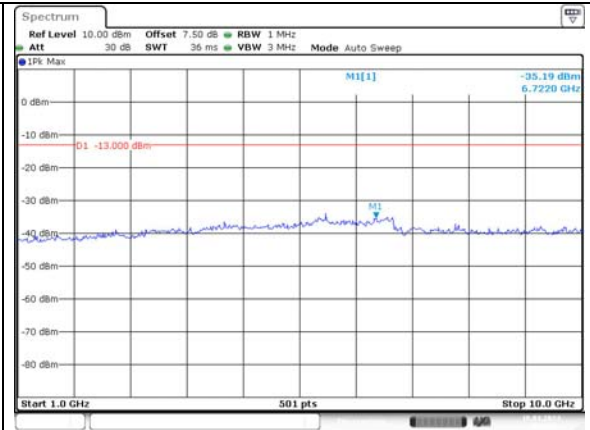
Channel

10MHz Bandwidth QPSK

Lowest

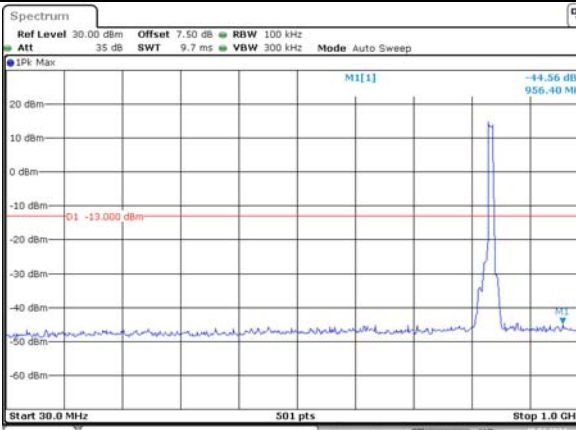


ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:13:17

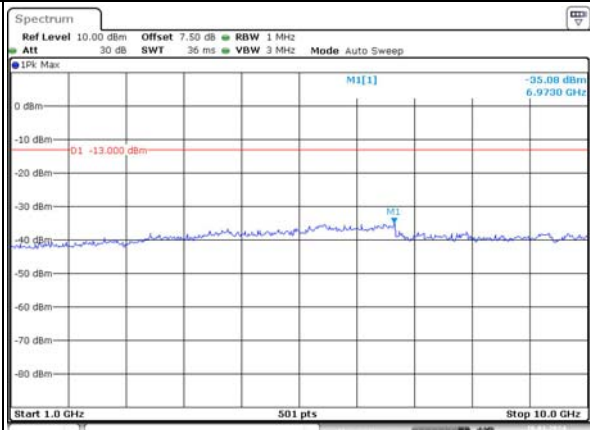


ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:13:42

Middle

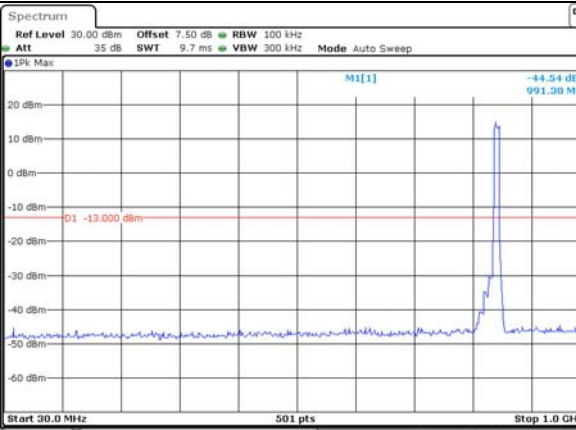


ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:14:08

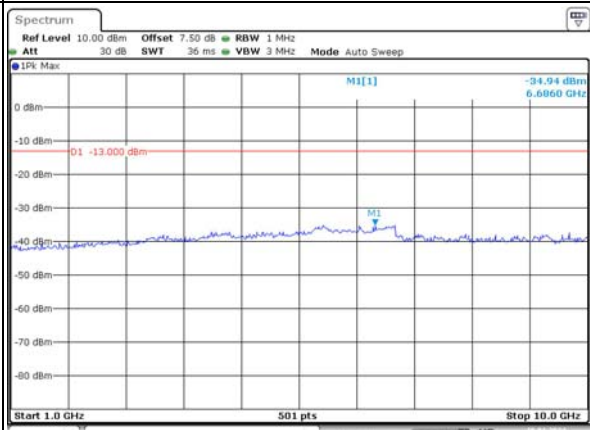


ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:14:37

Highest



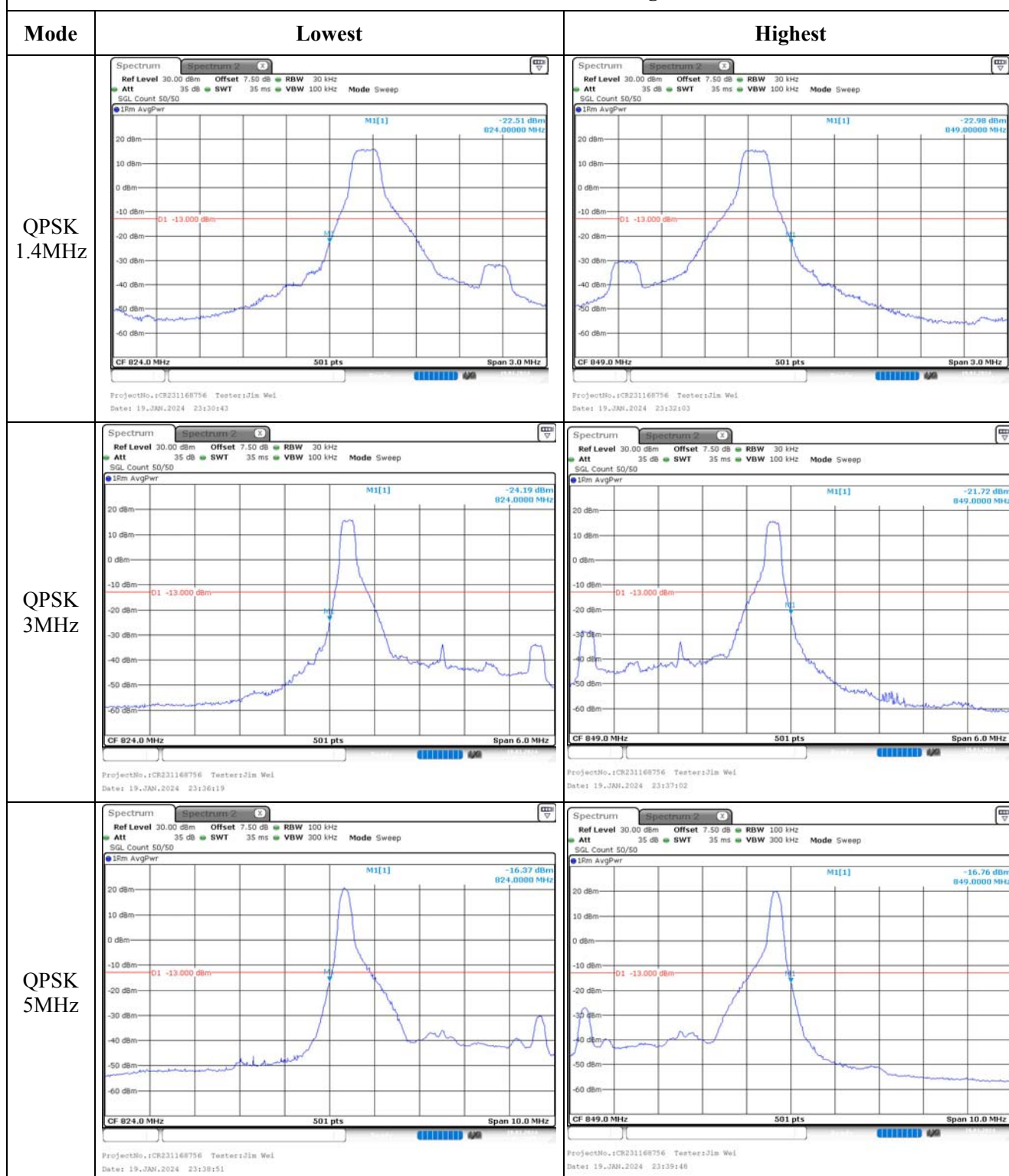
ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:15:05



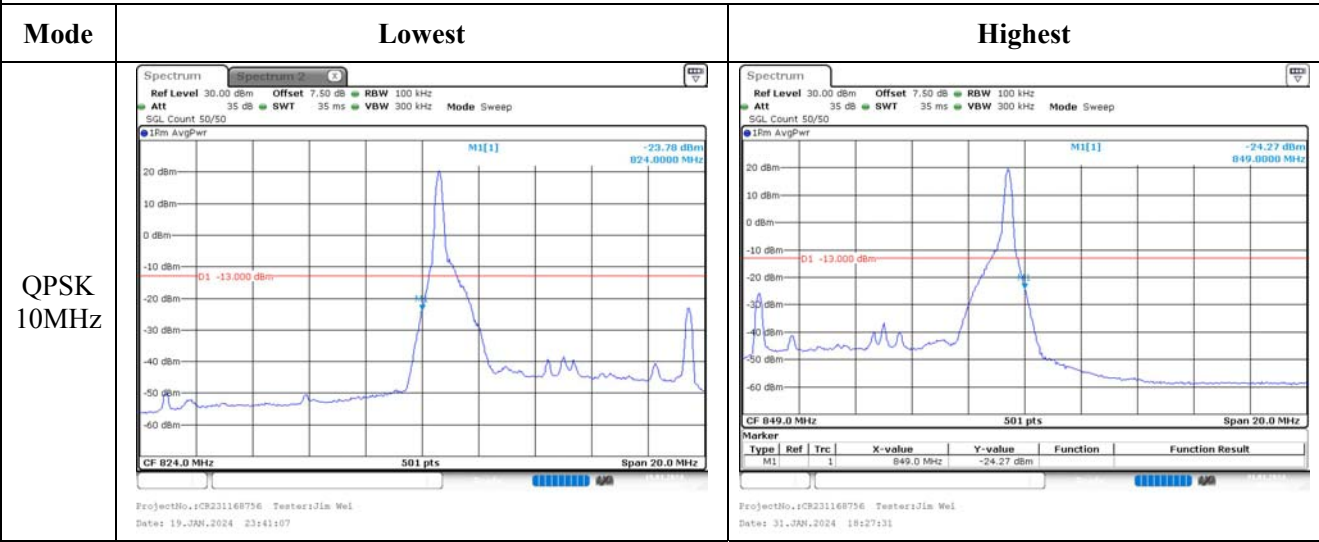
ProjectNo.:CR231168756 Testers:Jim Wei
Date: 16.JAN.2024 18:15:31

1 RB:

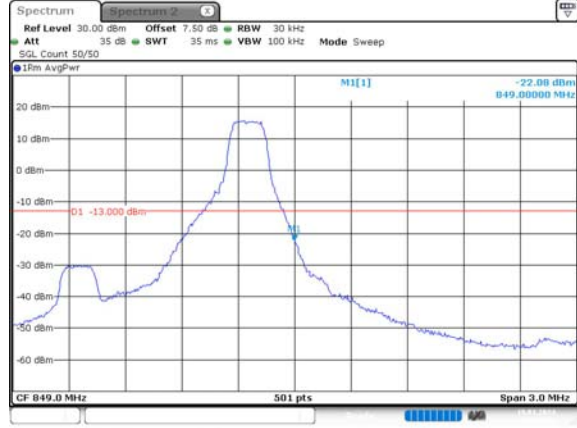
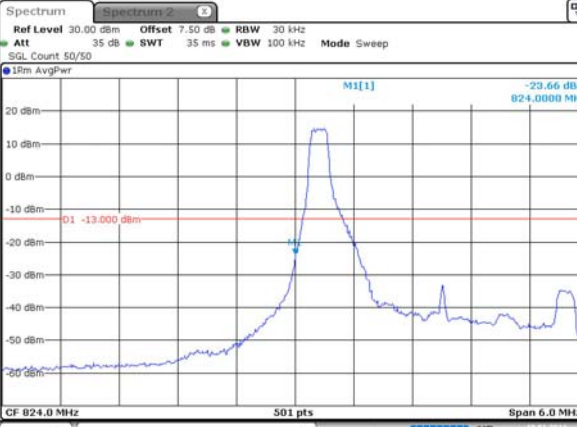
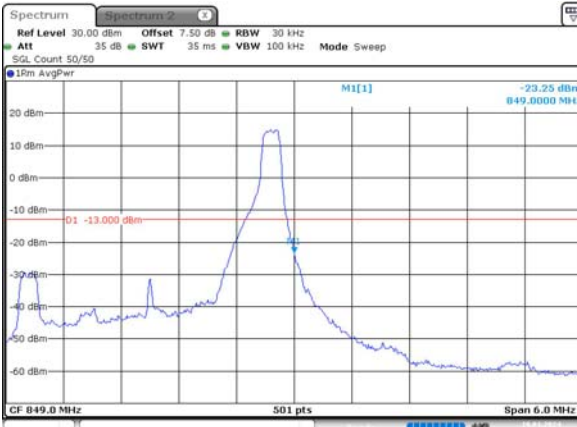
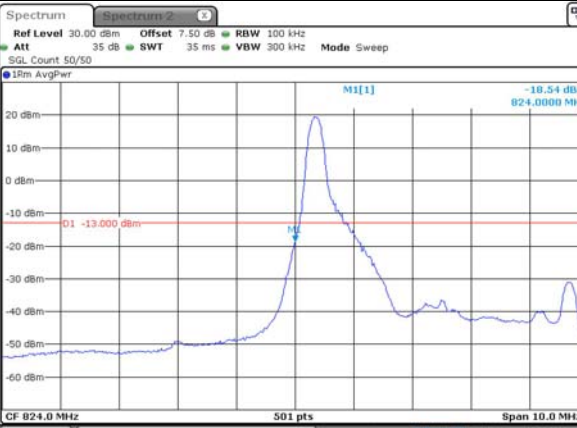
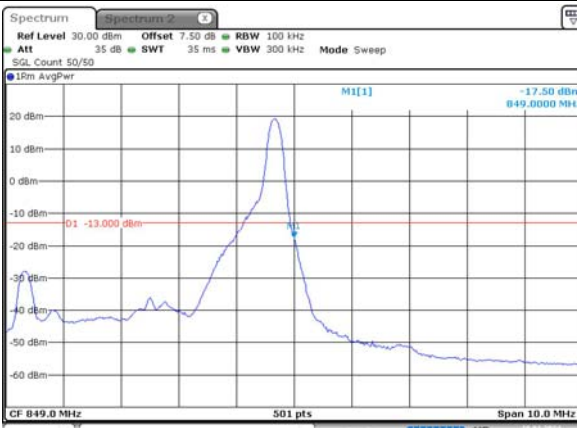
Out of band emission, Band Edge

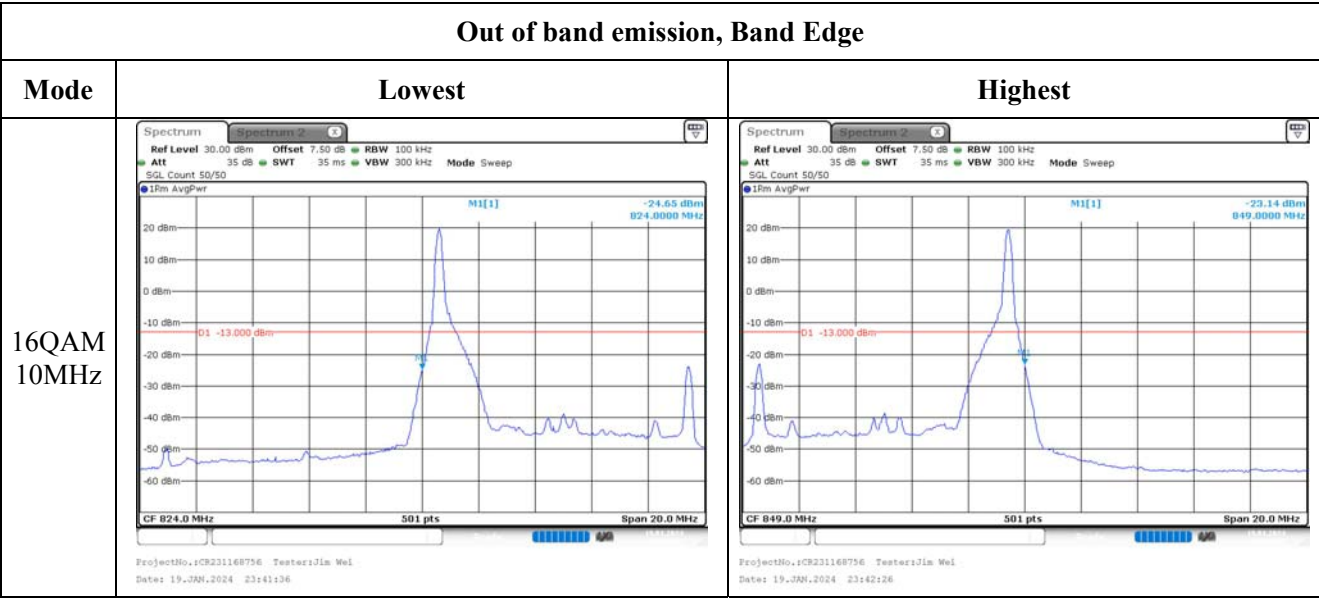


Out of band emission, Band Edge



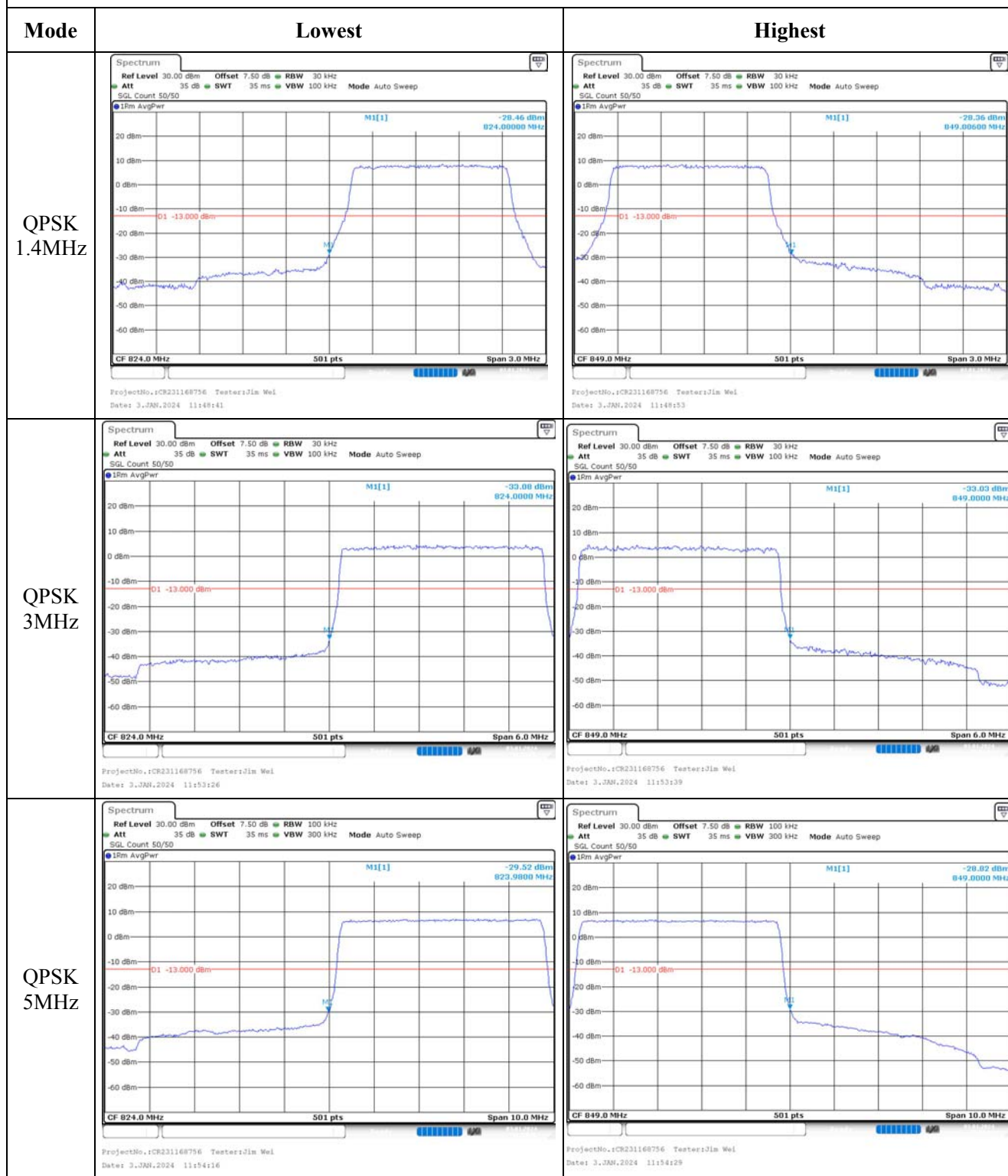
Out of band emission, Band Edge

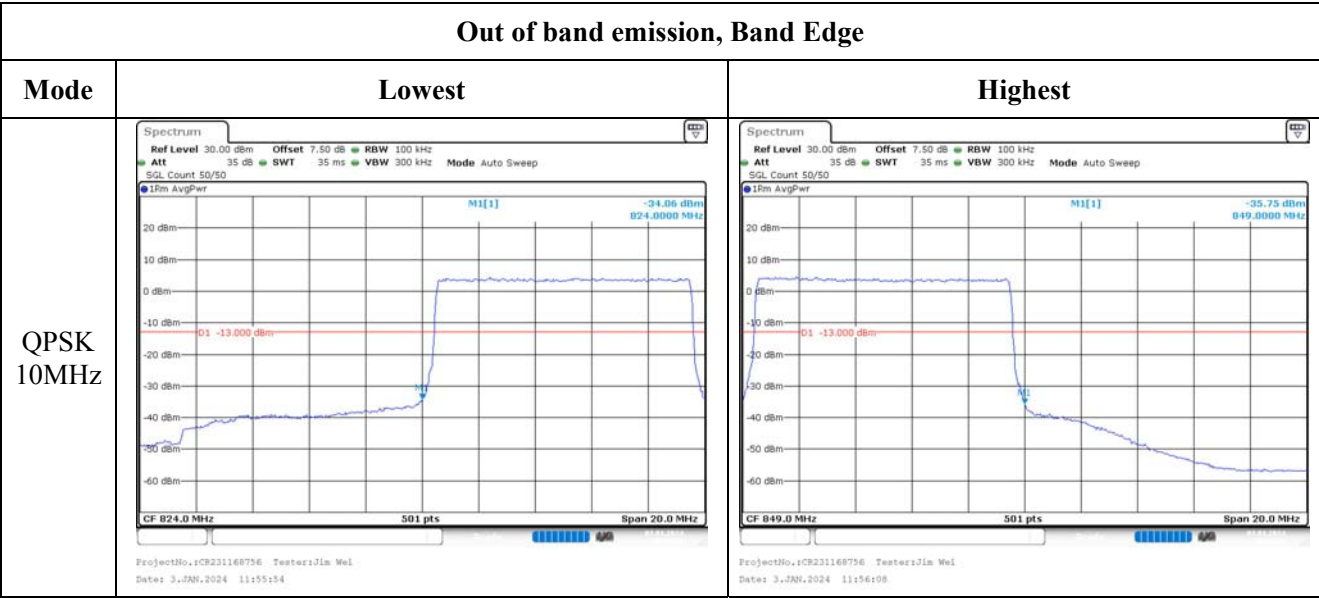
Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:31:13	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:32:29
16QAM 3MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:36:40	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:37:32
16QAM 5MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:39:21	 ProjectNo.:CR231168756 TestersJim Wei Date: 19.JAN.2024 23:40:14



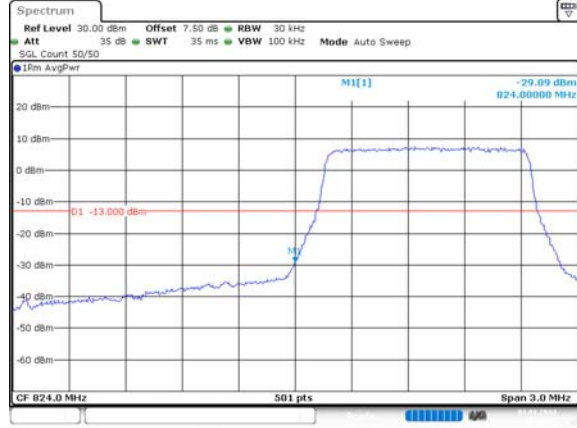
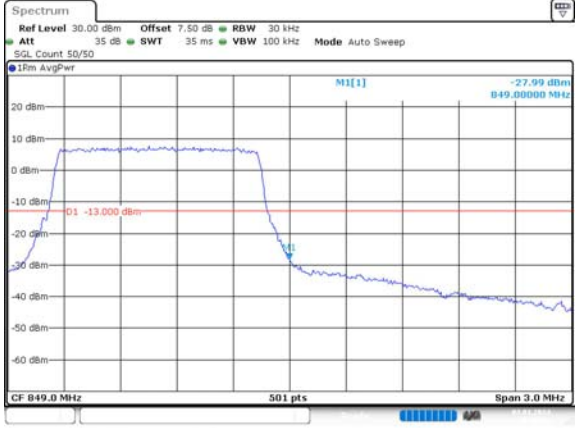
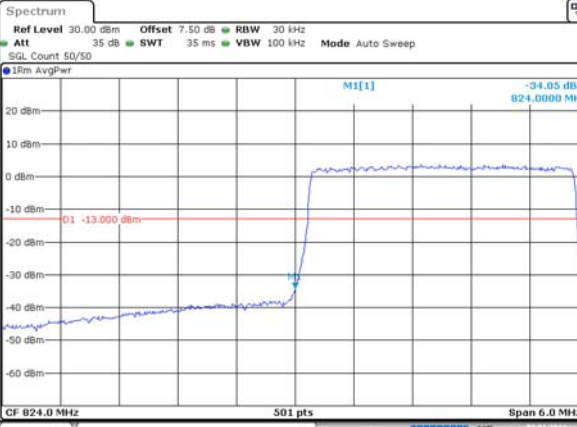
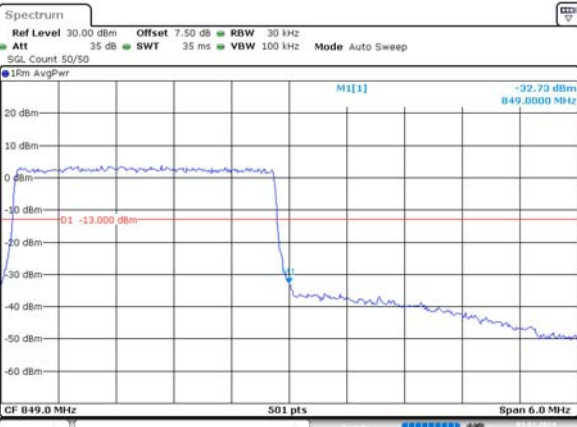
Full RB:

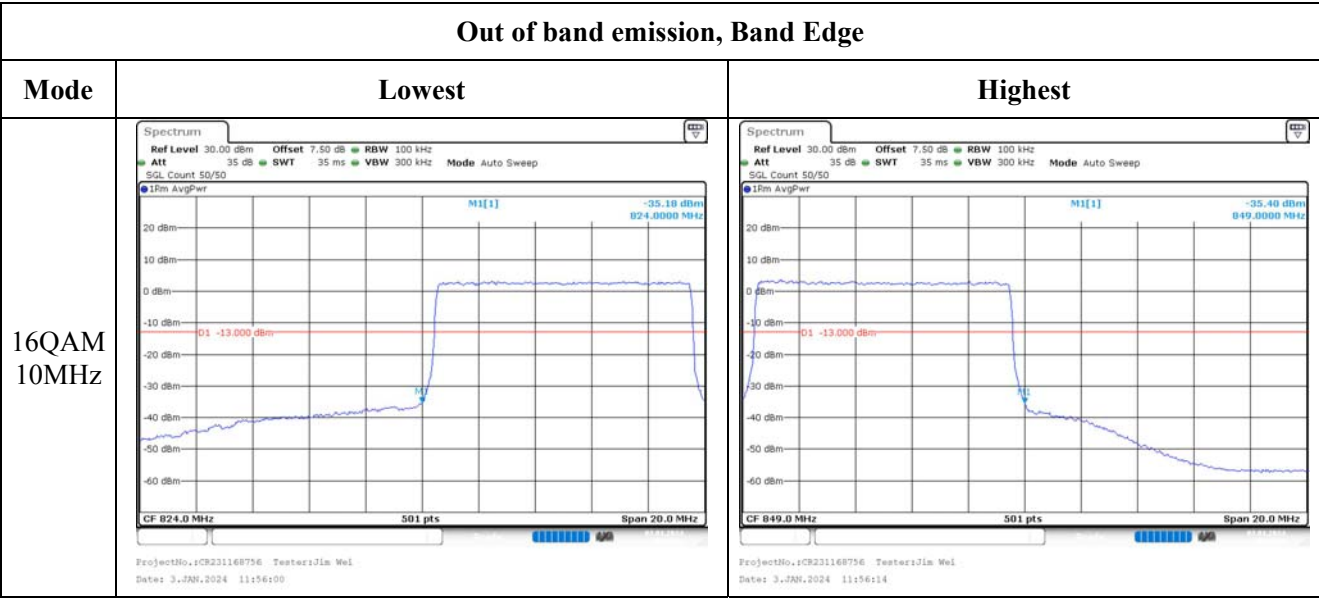
Out of band emission, Band Edge





Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:48:47	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:48:59
16QAM 3MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:53:32	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:53:44
16QAM 5MHz	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:54:23	 ProjectNo.:CR231168756 TestersJim Wei Date: 3.JAN.2024 11:54:35



4.9 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	2DYK-1	Test Date:	2024/1/2-2024/3/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jim Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.5~26.5	Relative Humidity: (%)	40~55	ATM Pressure: (kPa)	101.1-101.9
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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	2023/3/31	2024/3/30
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	143458	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2023/9/29	2024/9/28
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 (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

Test Data:

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	22.11	21.99	21.95	24.14	33
	RB1#13	22.21	22.13	22.13		
	RB1#24	22.11	22.00	21.99		
	RB15#0	21.15	21.19	21.17		
	RB15#10	21.21	21.14	21.09		
	RB25#0	21.15	21.10	21.08		
5MHz 16QAM	RB1#0	21.32	21.10	20.77	23.38	33
	RB1#13	21.45	21.16	20.92		
	RB1#24	21.31	21.07	20.80		
	RB15#0	20.13	20.18	20.11		
	RB15#10	20.12	20.16	19.93		
	RB25#0	20.15	20.14	19.77		
10MHz QPSK	RB1#0	22.13	21.97	22.03	24.25	33
	RB1#25	22.32	22.15	22.20		
	RB1#49	22.17	22.05	22.01		
	RB25#0	21.03	21.07	21.09		
	RB25#25	21.18	21.12	21.03		
	RB50#0	21.13	21.15	21.03		
10MHz 16QAM	RB1#0	21.04	21.50	20.98	23.55	33
	RB1#25	21.10	21.62	21.21		
	RB1#49	21.00	21.54	21.19		
	RB25#0	20.13	20.17	20.21		
	RB25#25	20.19	20.18	20.15		
	RB50#0	20.09	20.15	20.18		
15MHz QPSK	RB1#0	22.14	22.09	22.08	24.16	33
	RB1#38	22.23	22.16	22.23		
	RB1#74	22.09	22.06	22.11		
	RB36#0	21.23	21.21	21.34		
	RB36#39	21.35	21.22	21.26		
	RB75#0	21.33	21.29	21.29		
15MHz 16QAM	RB1#0	21.61	21.24	21.37	23.58	33
	RB1#38	21.65	21.29	21.37		
	RB1#74	21.49	21.18	21.27		
	RB36#0	20.19	20.26	20.18		
	RB36#39	20.26	20.22	20.10		
	RB75#0	20.26	20.26	20.14		
20MHz QPSK	RB1#0	21.96	22.00	21.87	24.3	33
	RB1#50	22.37	22.32	22.29		
	RB1#99	21.93	21.99	21.86		
	RB50#0	21.09	21.22	21.08		

	RB50#50	21.21	21.20	21.01		
	RB100#0	21.16	21.24	21.04		
20MHz 16QAM	RB1#0	21.25	21.15	21.40	23.59	33
	RB1#50	21.57	21.52	21.66		
	RB1#99	21.15	21.20	21.39		
	RB50#0	20.05	20.22	20.14		
	RB50#50	20.19	20.17	20.08		
	RB100#0	20.16	20.25	20.11		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	3.51	3.04	13
	RB100#0	4.70	4.99	4.17	13
20MHz 16QAM	RB1#0	4.70	4.75	4.06	13
	RB100#0	5.74	5.97	5.25	13

Result:**Pass****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	4.491	4.511	4.960	4.940	4.940
5MHz 16QAM	4.531	4.511	4.511	4.960	4.980	4.960
10MHz QPSK	8.942	8.942	8.942	9.640	9.680	9.560
10MHz 16QAM	8.942	8.942	8.942	9.640	9.600	9.640
15MHz QPSK	13.473	13.473	13.473	14.640	14.640	14.640
15MHz 16QAM	13.473	13.473	13.533	14.580	14.580	14.580
20MHz QPSK	17.964	17.964	17.884	19.120	19.280	19.520
20MHz 16QAM	17.964	17.884	17.884	19.600	19.280	19.280

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

Spurious Emissions at Antenna Terminal**Result:****Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.****Out of band emission, Band Edge****Result:****Pass, Please refer to the test plots of Out of band emission, Band Edge.****Frequency Stability**

Test Mode:

20M QPSK

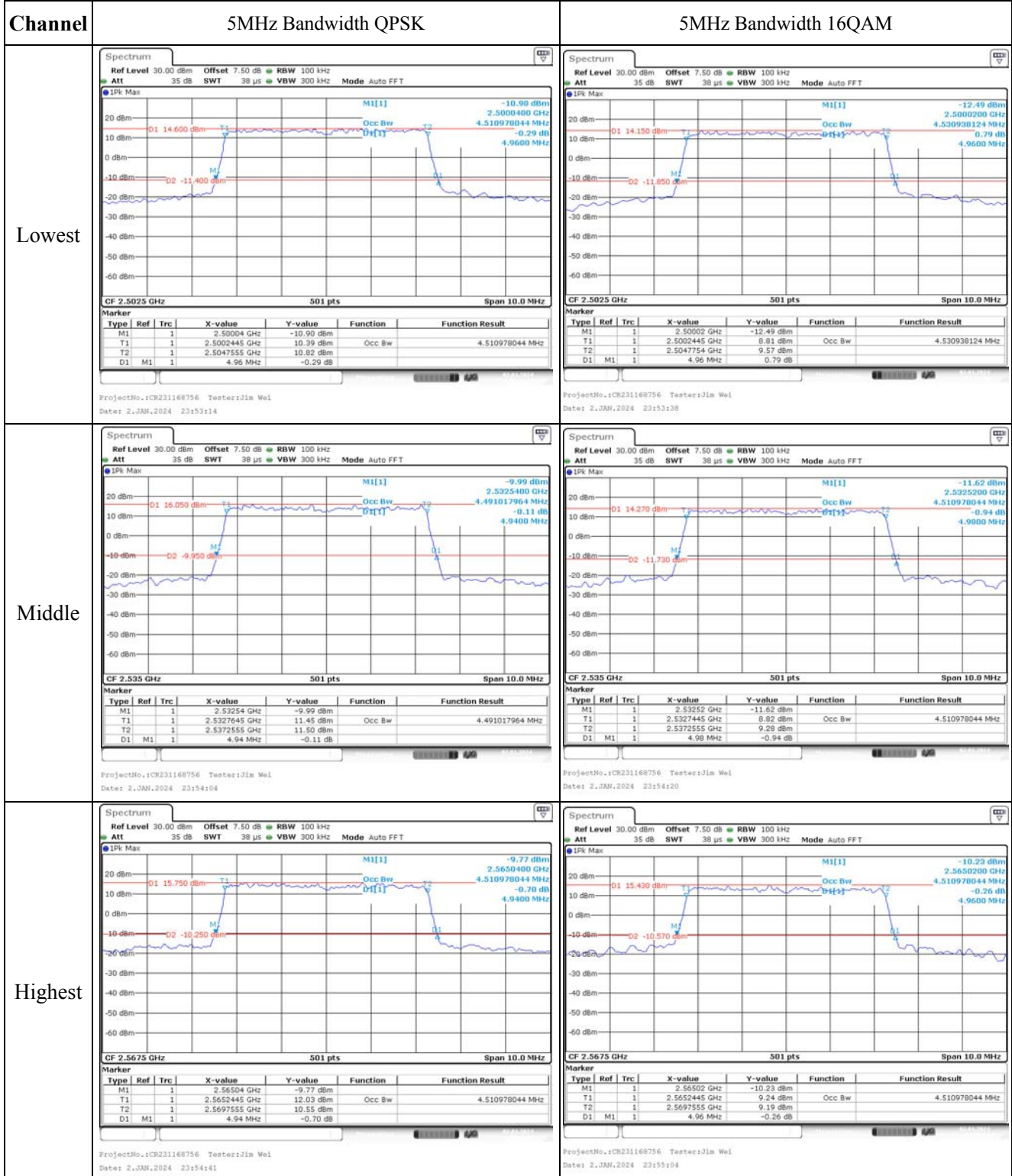
Test Channel: Lowest for Lower Edge,Highest for Upper Edge

Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2501.049	2500.00	2568.918	2570
	-20	3.8	2501.052	2500.00	2568.918	2570
	-10	3.8	2501.049	2500.00	2568.939	2570
	0	3.8	2501.046	2500.00	2568.918	2570
	10	3.8	2501.037	2500.00	2568.918	2570
	20	3.8	2501.058	2500.00	2568.942	2570
	30	3.8	2501.064	2500.00	2568.951	2570
	40	3.8	2501.070	2500.00	2568.951	2570
	50	3.8	2501.085	2500.00	2568.957	2570
Frequency Stability vs. Voltage	20	3.23	2501.067	2500.00	2568.954	2570
	20	4.18	2501.070	2500.00	2568.963	2570
					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	3.8	2501.568	2500.00	2568.921	2570
	-20	3.8	2501.553	2500.00	2568.939	2570
	-10	3.8	2501.556	2500.00	2568.930	2570
	0	3.8	2501.559	2500.00	2568.939	2570
	10	3.8	2501.574	2500.00	2568.924	2570
	20	3.8	2501.580	2500.00	2568.942	2570
	30	3.8	2501.589	2500.00	2568.966	2570
	40	3.8	2501.607	2500.00	2568.945	2570
	50	3.8	2501.598	2500.00	2568.948	2570
Frequency Stability vs. Voltage	20	3.23	2501.583	2500.00	2568.963	2570
	20	4.18	2501.586	2500.00	2568.960	2570
					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



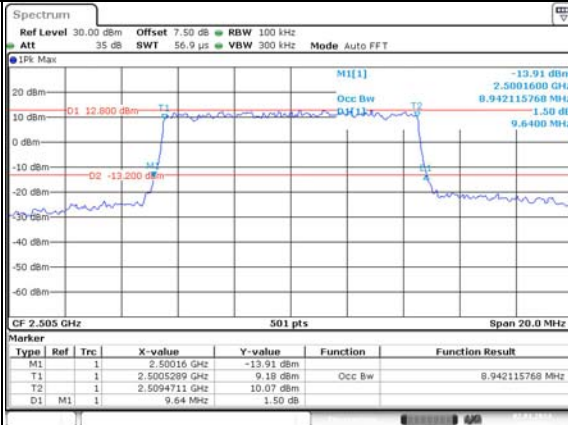
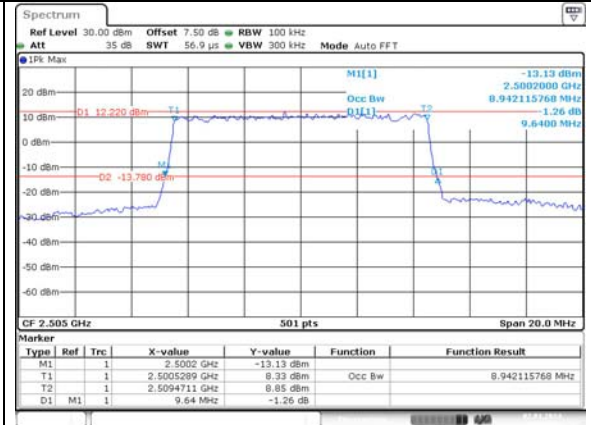
Occupied Bandwidth

Channel

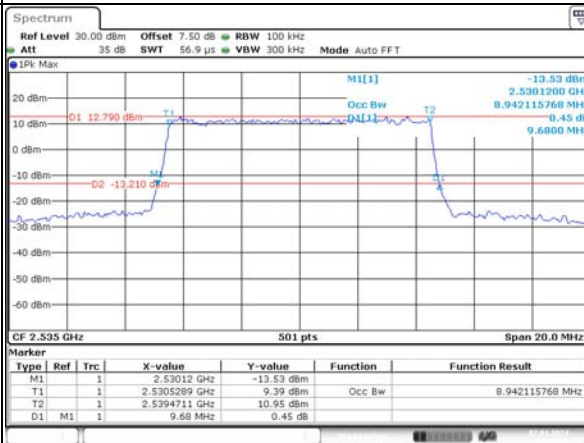
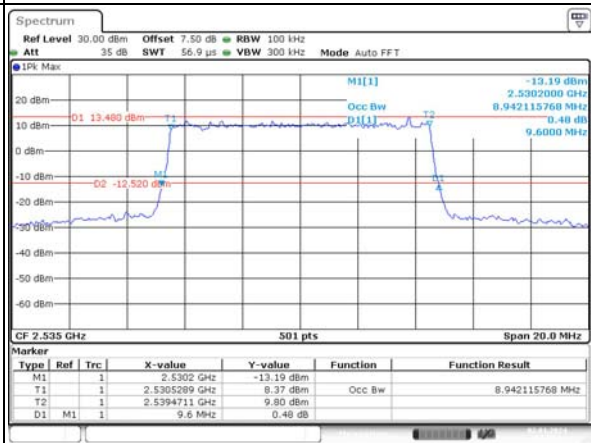
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

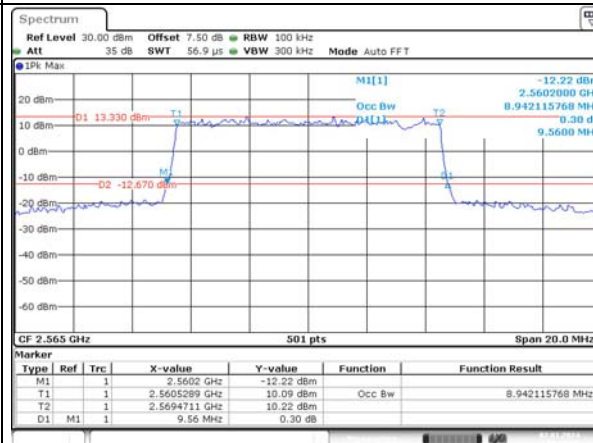
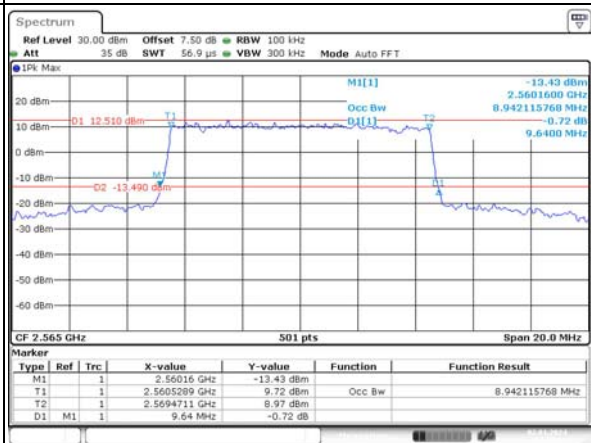
Lowest

ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:55:51ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:56:16

Middle

ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:56:46ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:57:12

Highest

ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:57:35ProjectNo.:CR231168756 TestersJim Wei
Date: 2.JAN.2024 23:57:55

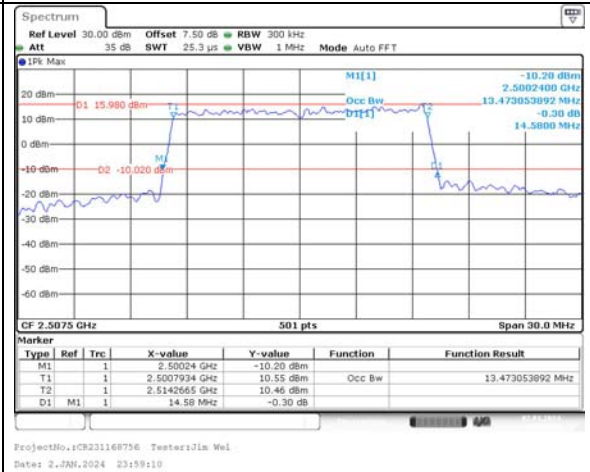
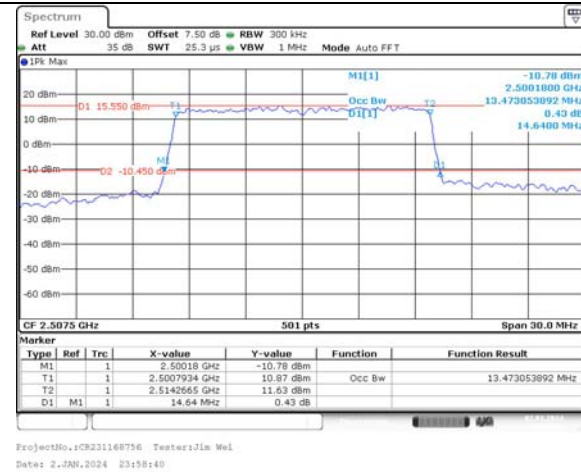
Occupied Bandwidth

Channel

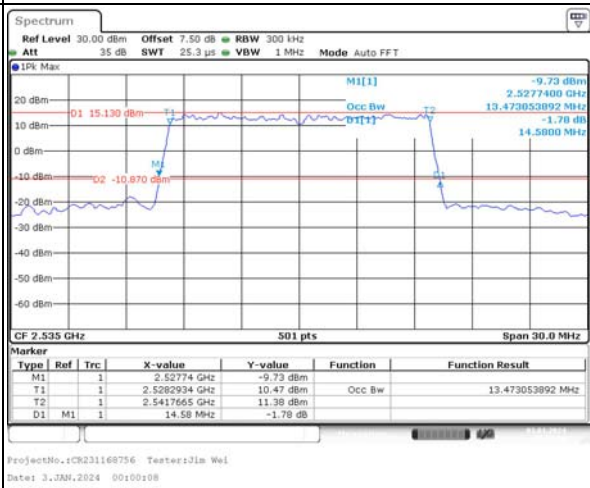
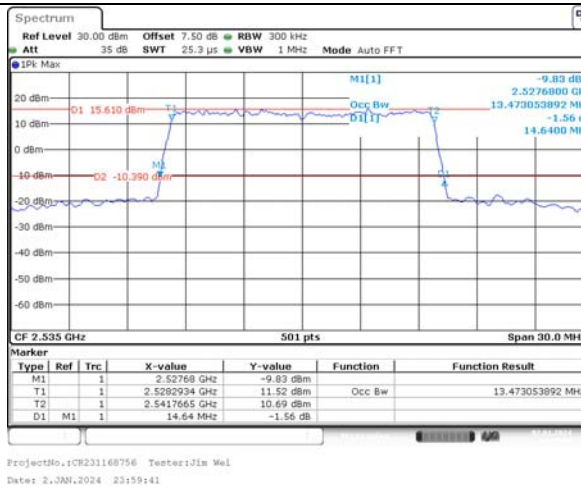
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

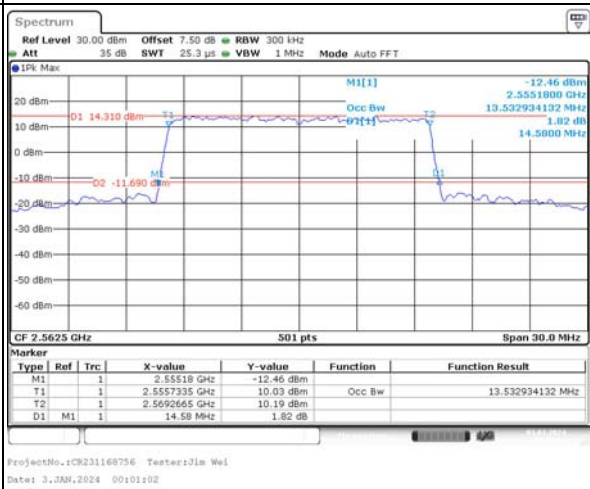
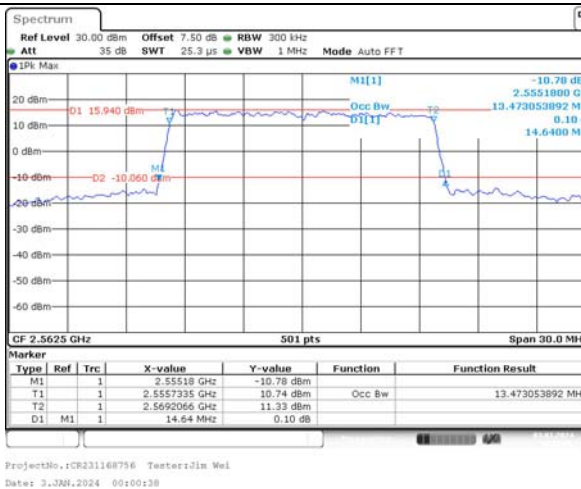
Lowest



Middle



Highest



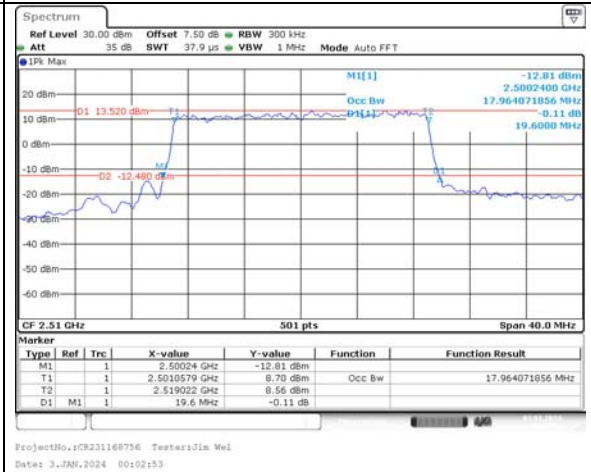
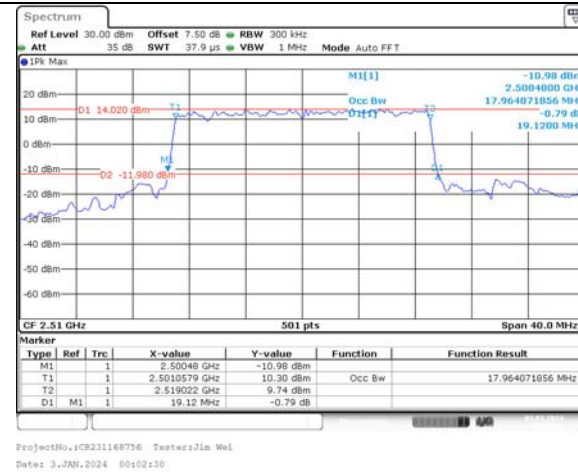
Occupied Bandwidth

Channel

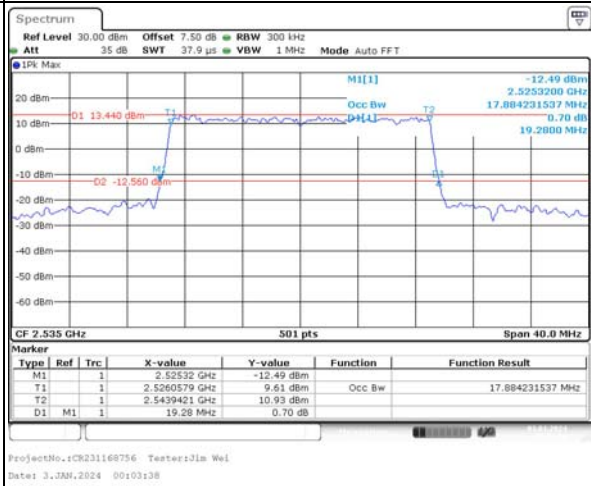
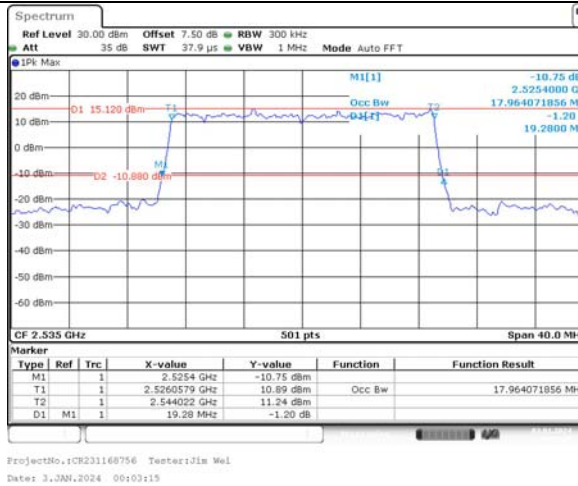
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

Lowest



Middle



Highest

