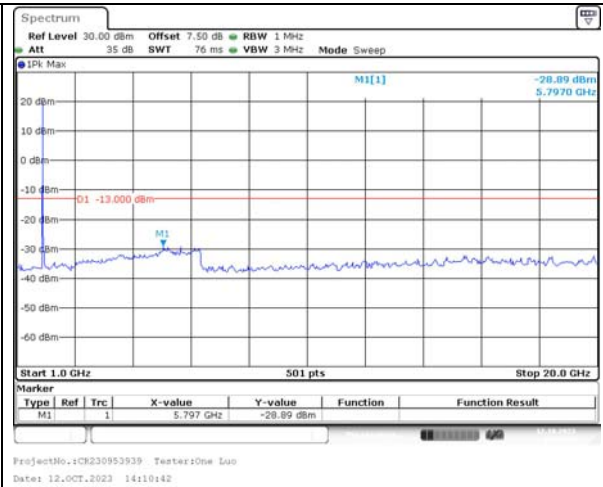
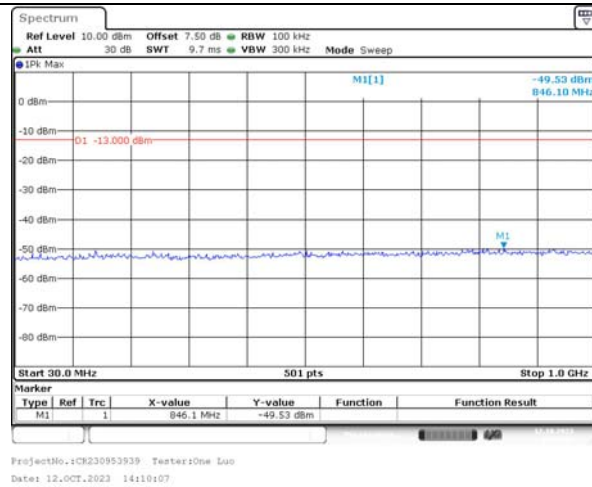


Spurious Emissions at Antenna Terminal

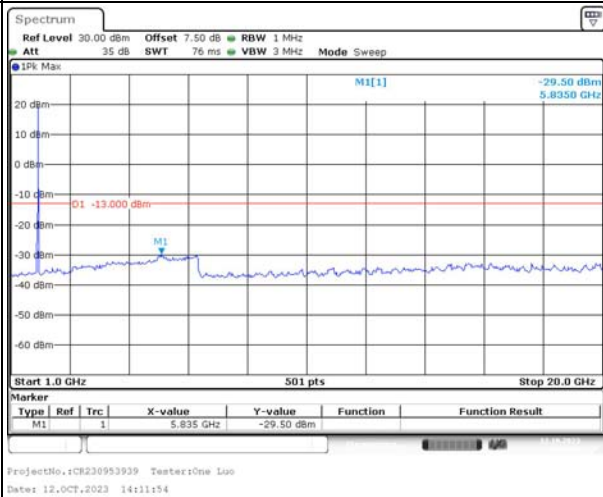
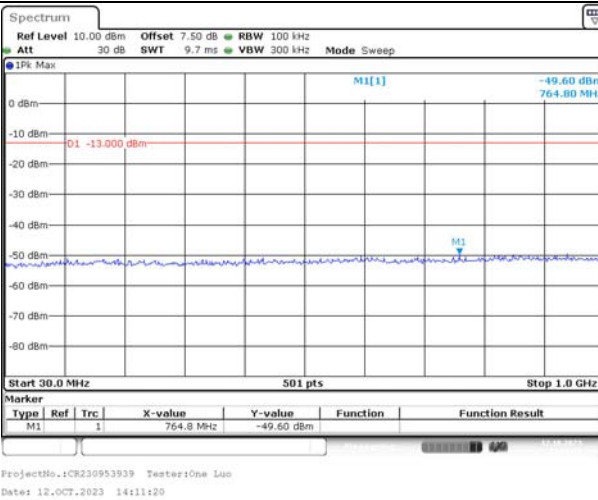
Channel

10MHz Bandwidth QPSK

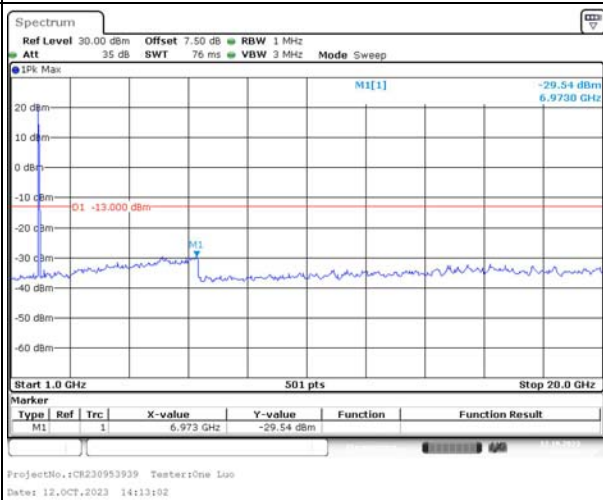
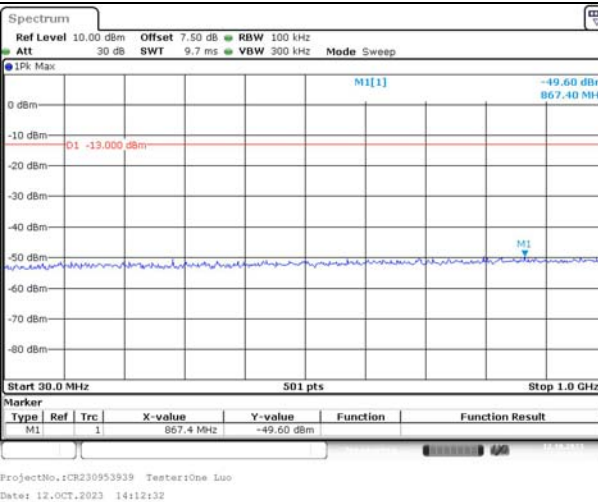
Lowest



Middle



Highest

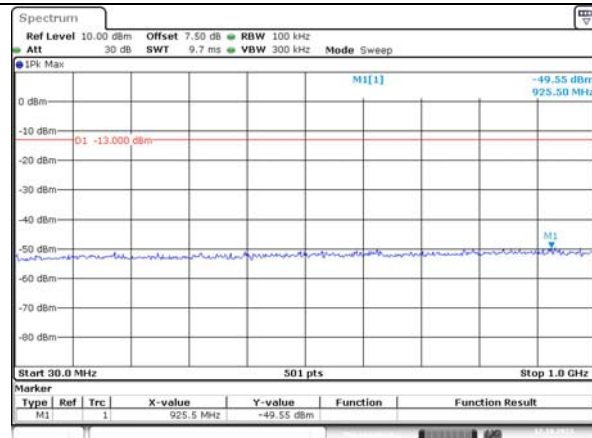


Spurious Emissions at Antenna Terminal

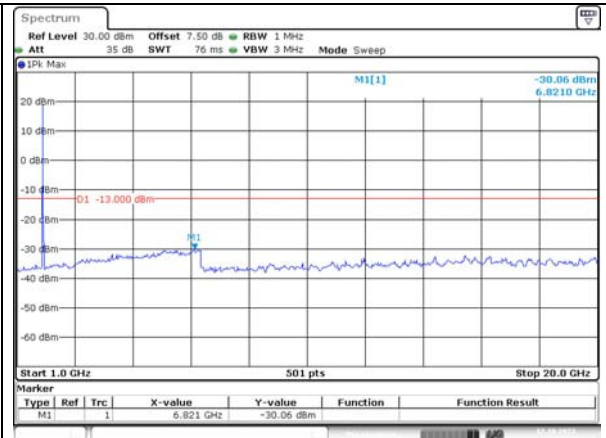
Channel

15MHz Bandwidth QPSK

Lowest

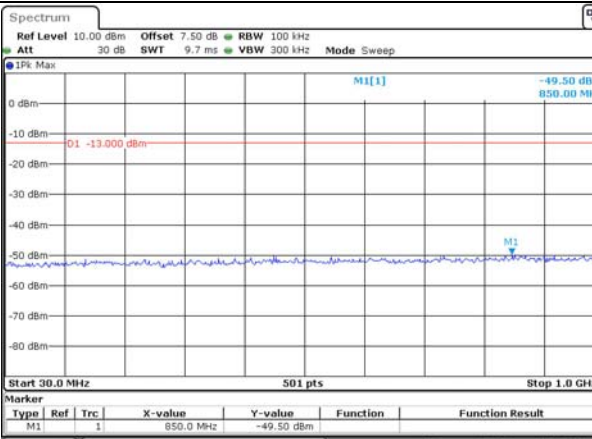


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Date: 12.OCT.2023 14:18:05

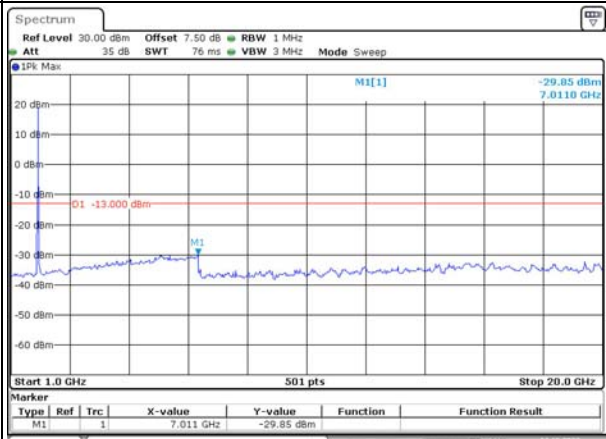


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Date: 12.OCT.2023 14:18:33

Middle

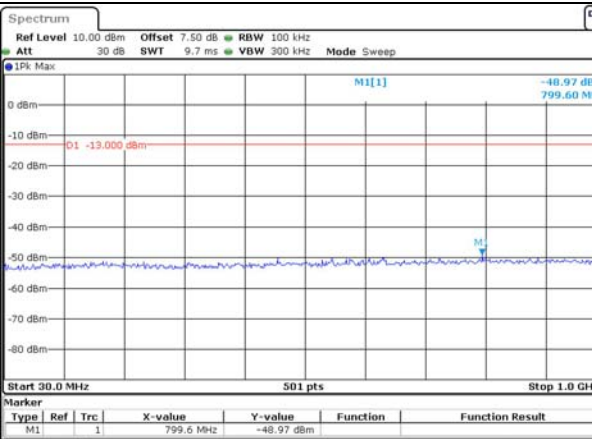


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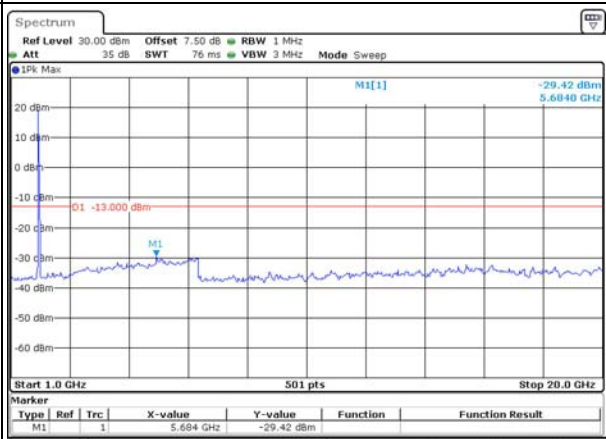


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Date: 12.OCT.2023 14:19:40

Highest



ProjectNo.:CR230953939 TesteriOne Luo
Date: 12.OCT.2023 14:20:14



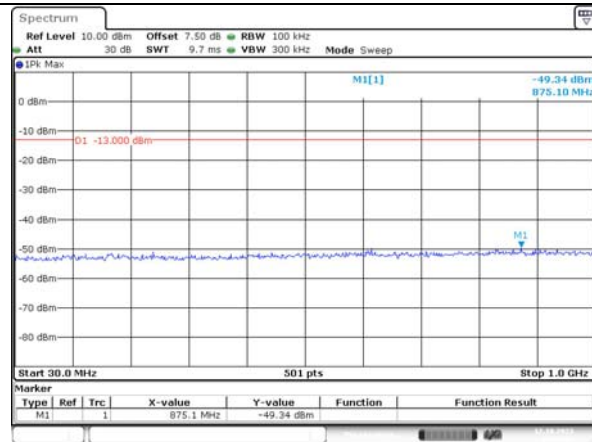
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Spurious Emissions at Antenna Terminal

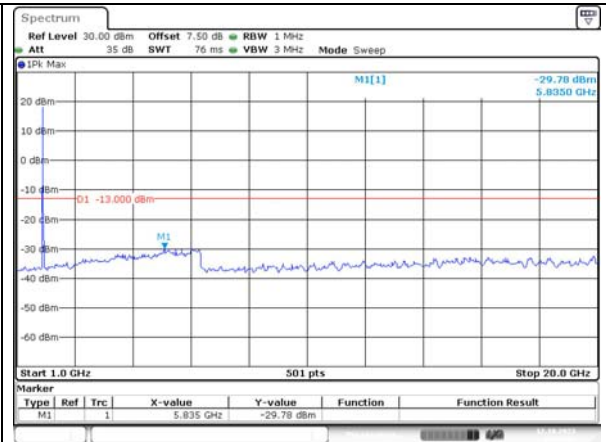
Channel

20MHz Bandwidth QPSK

Lowest

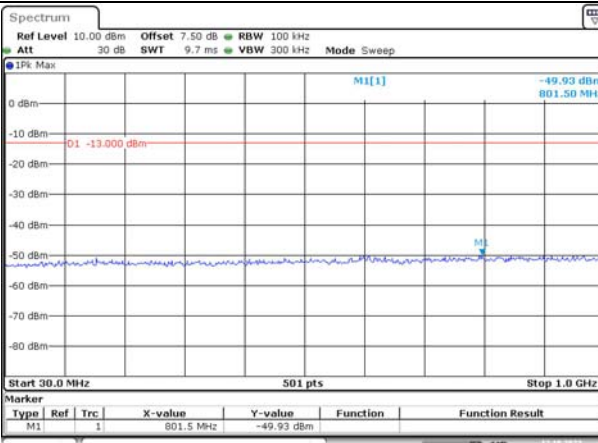


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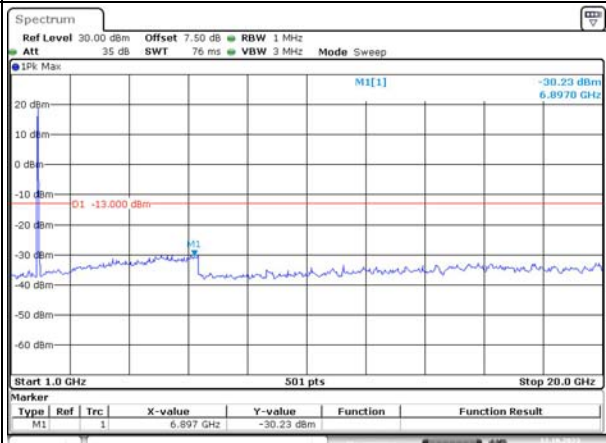


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Middle

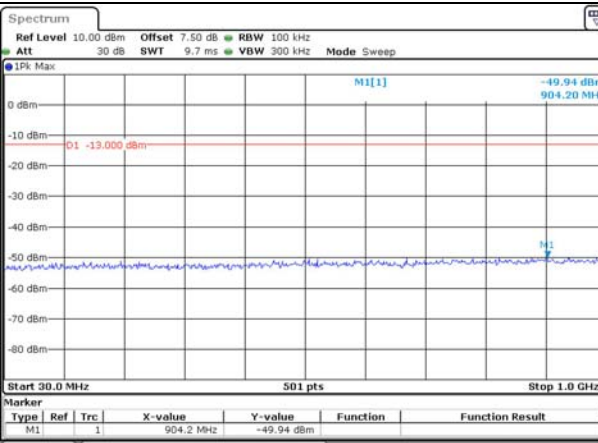


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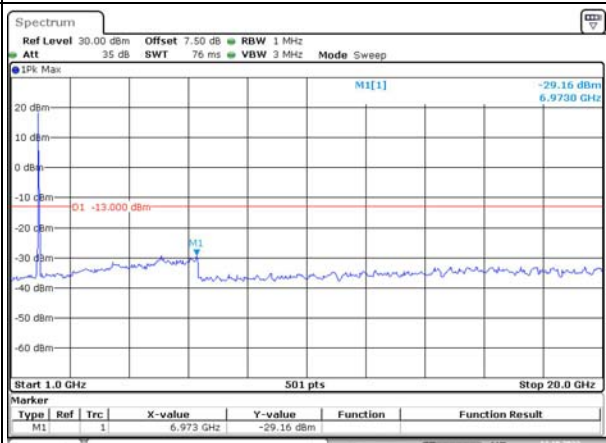


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Highest

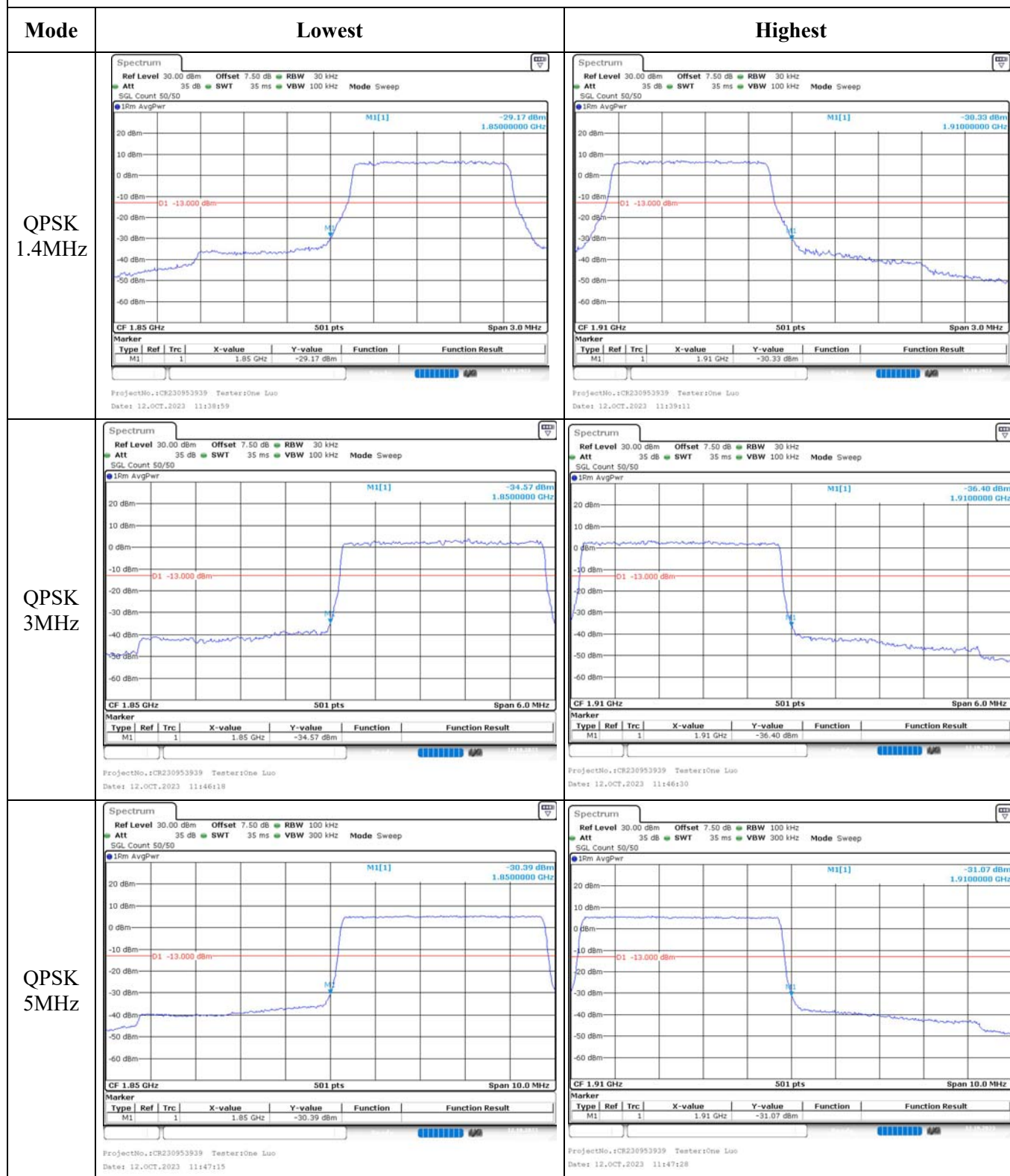


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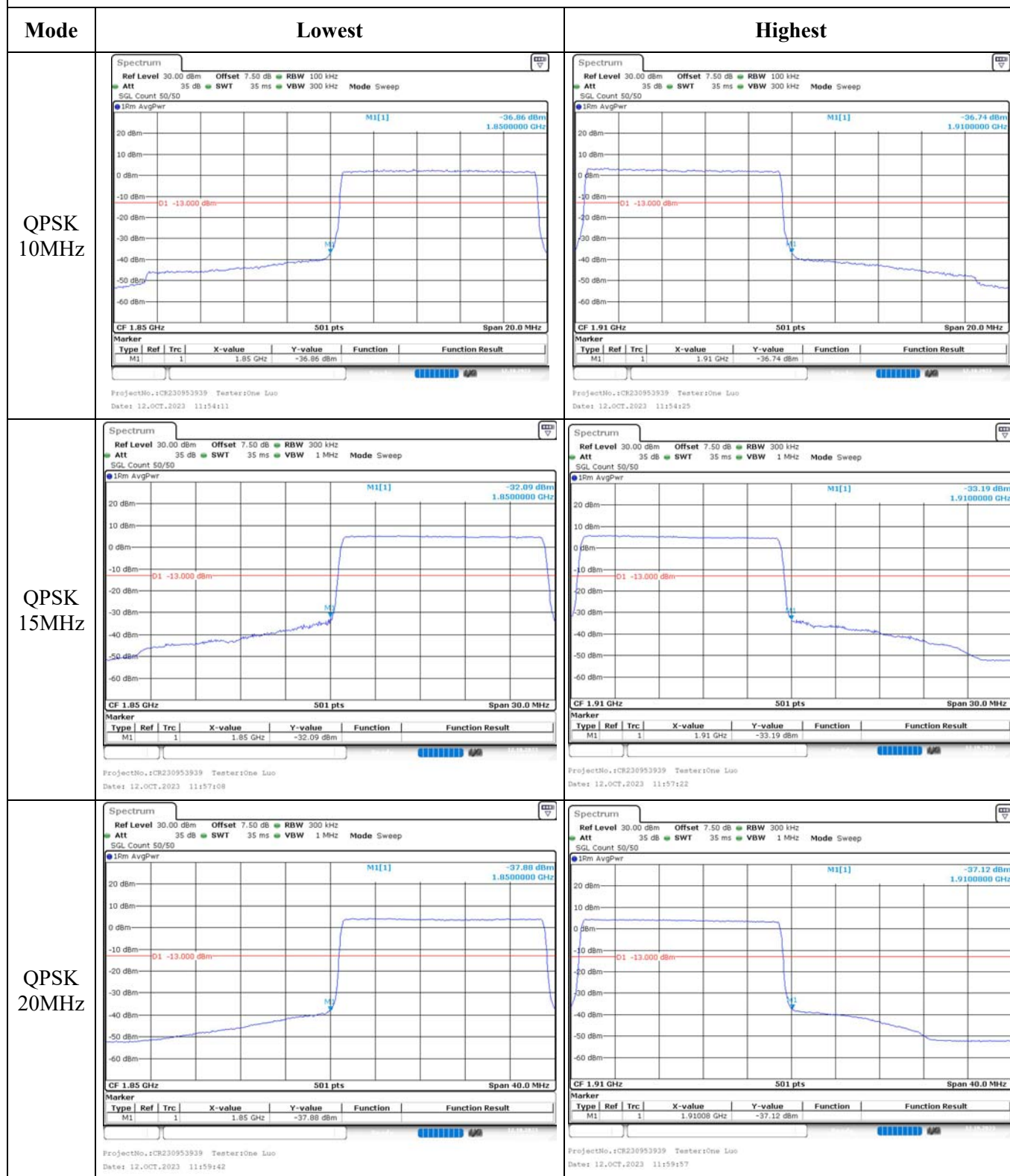


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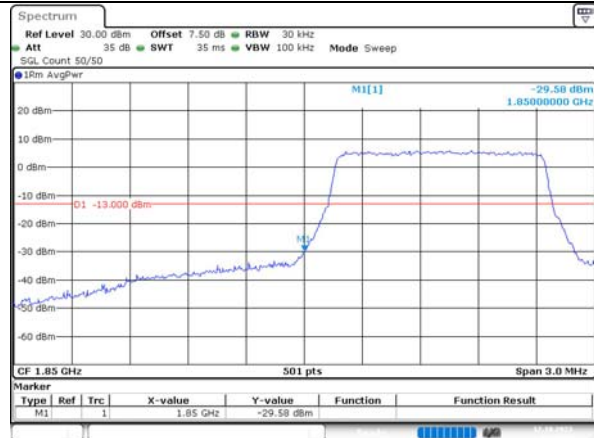
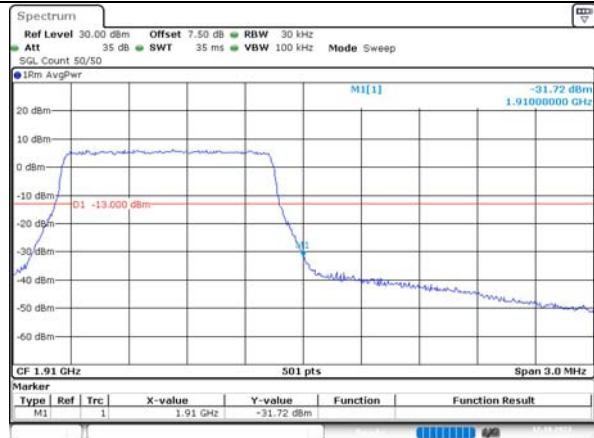
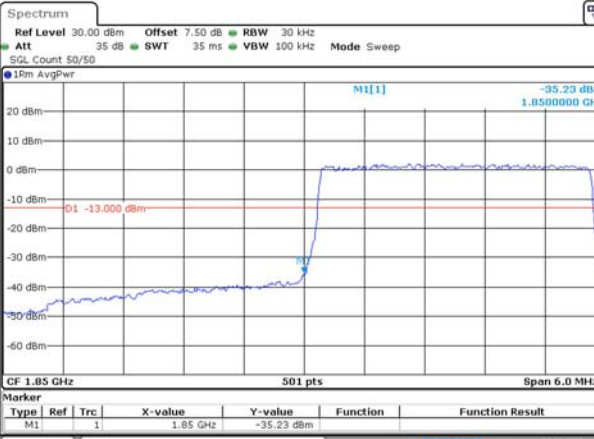
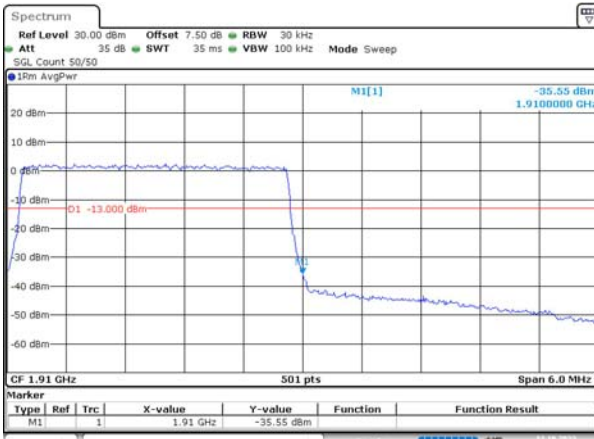
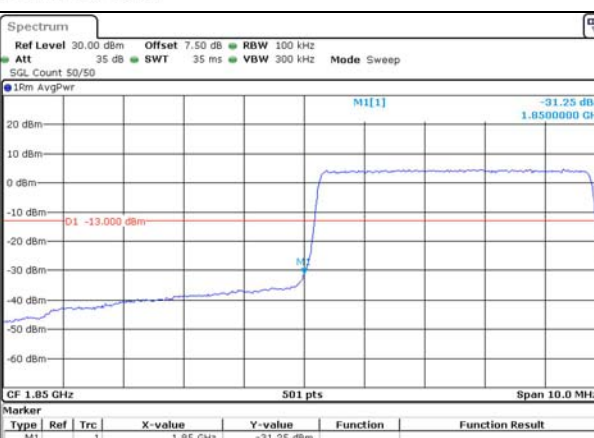
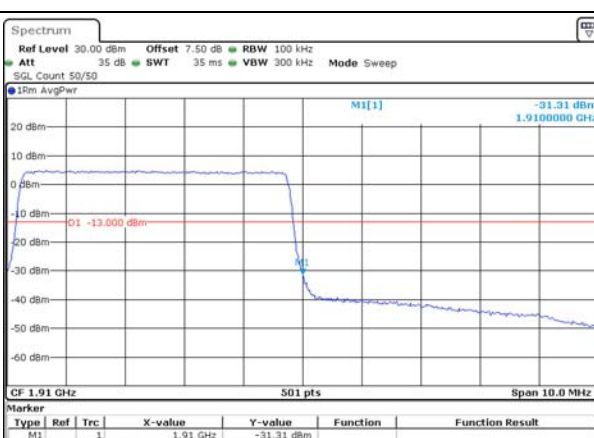
Out of band emission, Band Edge



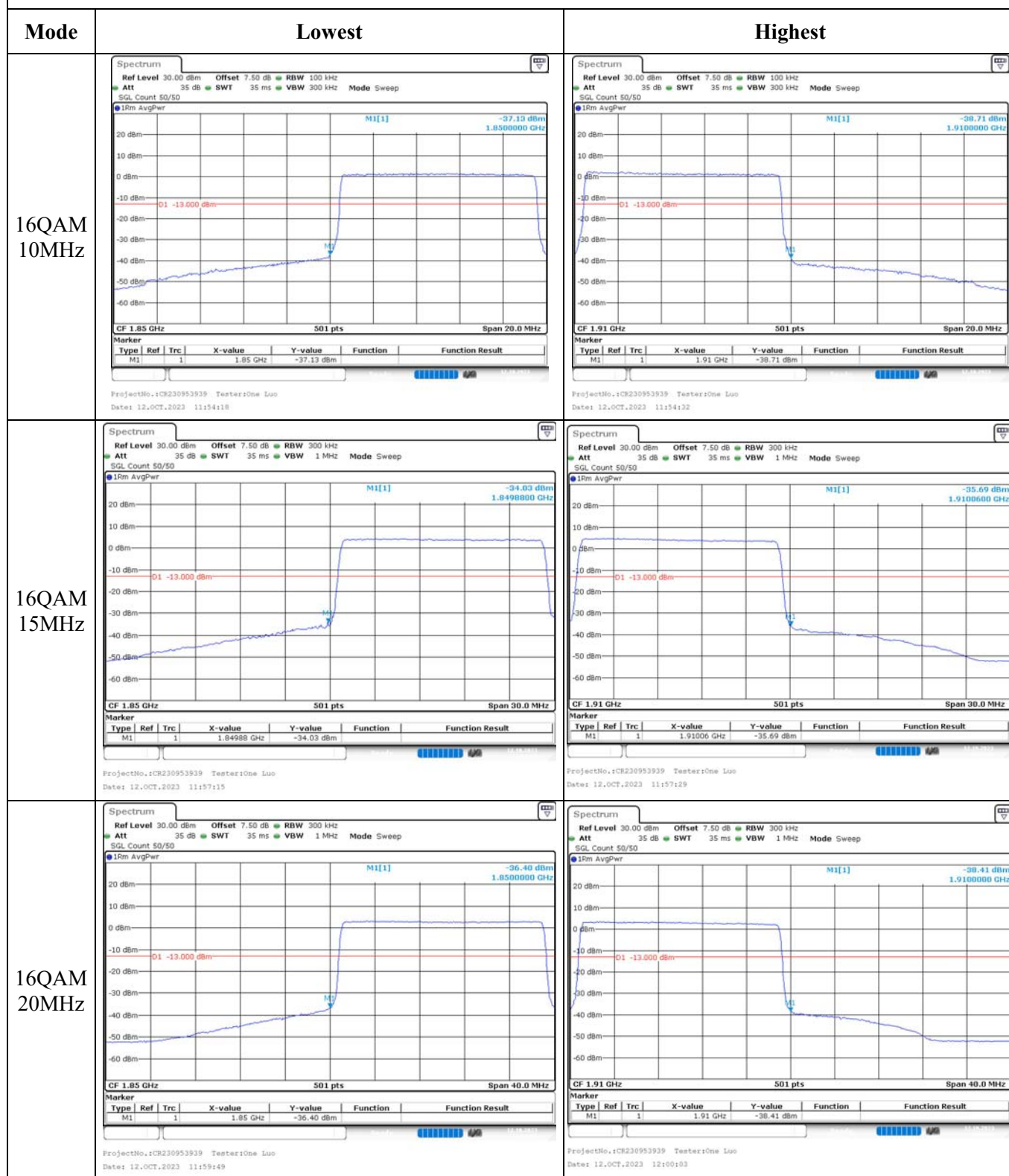
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:39:04	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:39:17
16QAM 3MHz	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:46:24	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:46:36
16QAM 5MHz	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:47:21	 ProjectNo.:CR230953939 Testers:One Luo Date: 12.OCT.2023 11:47:35

Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	2B7U-2	Test Date:	2023/10/12~2023/10/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~27.5	Relative Humidity: (%)	42~52	ATM Pressure: (kPa)	100.5~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	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	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

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		
1.4MHz QPSK	RB1#0	23.11	22.97	22.76	24.11	30
	RB1#3	23.24	23.15	22.97		
	RB1#5	23.13	22.94	22.76		
	RB3#0	23.30	23.09	22.87		
	RB3#3	23.27	23.08	22.88		
	RB6#0	22.21	22.04	21.85		
1.4MHz 16QAM	RB1#0	22.17	21.98	21.90	23.19	30
	RB1#3	22.36	22.15	22.13		
	RB1#5	22.18	21.98	21.87		
	RB3#0	22.34	22.24	21.84		
	RB3#3	22.38	22.26	21.87		
	RB6#0	21.16	21.06	20.86		
3MHz QPSK	RB1#0	23.18	23.07	22.85	23.99	30
	RB1#8	23.13	23.04	22.81		
	RB1#14	23.07	23.00	22.78		
	RB6#0	22.09	21.97	21.74		
	RB6#9	22.10	22.01	21.74		
	RB15#0	22.13	21.99	21.80		
3MHz 16QAM	RB1#0	22.72	22.19	21.88	23.54	30
	RB1#8	22.73	22.20	21.84		
	RB1#14	22.70	22.19	21.76		
	RB6#0	21.20	21.03	20.75		
	RB6#9	21.17	21.02	20.69		
	RB15#0	21.17	21.04	20.85		
5MHz QPSK	RB1#0	23.21	22.75	22.58	24.15	30
	RB1#13	23.34	22.87	22.70		
	RB1#24	23.11	22.68	22.55		
	RB15#0	22.23	21.87	21.70		
	RB15#10	22.25	21.87	21.67		
	RB25#0	22.23	21.84	21.64		
5MHz 16QAM	RB1#0	22.48	21.82	21.49	23.37	30
	RB1#13	22.56	21.94	21.64		
	RB1#24	22.42	21.80	21.51		
	RB15#0	21.19	20.92	20.76		
	RB15#10	21.23	20.90	20.72		
	RB25#0	21.25	20.87	20.72		
10MHz QPSK	RB1#0	23.24	22.94	22.72	24.06	30

	RB1#25	23.25	23.03	22.88		
	RB1#49	23.08	22.81	22.65		
	RB25#0	22.17	21.97	21.71		
	RB25#25	22.14	21.88	21.65		
	RB50#0	22.15	21.99	21.73		
10MHz 16QAM	RB1#0	22.84	22.10	21.71	23.69	30
	RB1#25	22.88	22.19	21.89		
	RB1#49	22.73	21.93	21.65		
	RB25#0	21.22	21.04	20.82		
	RB25#25	21.19	20.93	20.78		
	RB50#0	21.19	20.94	20.77		
15MHz QPSK	RB1#0	23.21	23.03	22.96	24.1	30
	RB1#38	23.29	23.06	23.00		
	RB1#74	23.08	22.94	22.76		
	RB36#0	22.28	22.17	22.01		
	RB36#39	22.19	22.13	21.99		
	RB75#0	22.23	22.15	22.00		
15MHz 16QAM	RB1#0	22.60	22.60	22.11	23.5	30
	RB1#38	22.65	22.69	22.11		
	RB1#74	22.48	22.56	21.98		
	RB36#0	21.24	21.08	21.01		
	RB36#39	21.17	21.16	20.99		
	RB75#0	21.17	21.17	21.00		
20MHz QPSK	RB1#0	22.99	22.80	22.41	24.14	30
	RB1#50	23.33	23.01	22.83		
	RB1#99	22.92	22.60	22.36		
	RB50#0	22.14	21.96	21.70		
	RB50#50	22.09	21.83	21.77		
	RB100#0	22.13	21.89	21.72		
20MHz 16QAM	RB1#0	22.31	21.95	22.06	23.46	30
	RB1#50	22.65	22.17	22.35		
	RB1#99	22.23	21.79	21.98		
	RB50#0	21.23	20.93	20.70		
	RB50#50	21.09	20.79	20.78		
	RB100#0	21.02	20.90	20.72		
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	5.86	5.83	5.48	13
	RB100#0	5.45	5.42	5.42	13
20MHz 16QAM	RB1#0	6.49	6.78	5.91	13
	RB100#0	6.46	6.49	6.41	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	1.108	1.096	1.308	1.29	1.29
1.4MHz 16QAM	1.096	1.102	1.102	1.29	1.302	1.326
3MHz QPSK	2.695	2.683	2.695	2.892	2.868	2.88
3MHz 16QAM	2.683	2.683	2.683	2.88	2.892	2.88
5MHz QPSK	4.511	4.511	4.491	4.94	4.96	4.94
5MHz 16QAM	4.491	4.511	4.511	4.9	4.94	4.96
10MHz QPSK	8.942	8.942	8.942	9.64	9.56	9.6
10MHz 16QAM	8.942	8.981	8.942	9.56	9.64	9.64
15MHz QPSK	13.473	13.473	13.473	14.76	15.6	15.84
15MHz 16QAM	13.473	13.533	13.533	14.7	14.7	16.14
20MHz QPSK	17.884	17.964	17.964	19.2	19.36	19.52
20MHz 16QAM	17.964	17.964	17.964	19.28	19.44	19.36
Note: The test plots please refer to the Plots of Occupied Bandwidth						

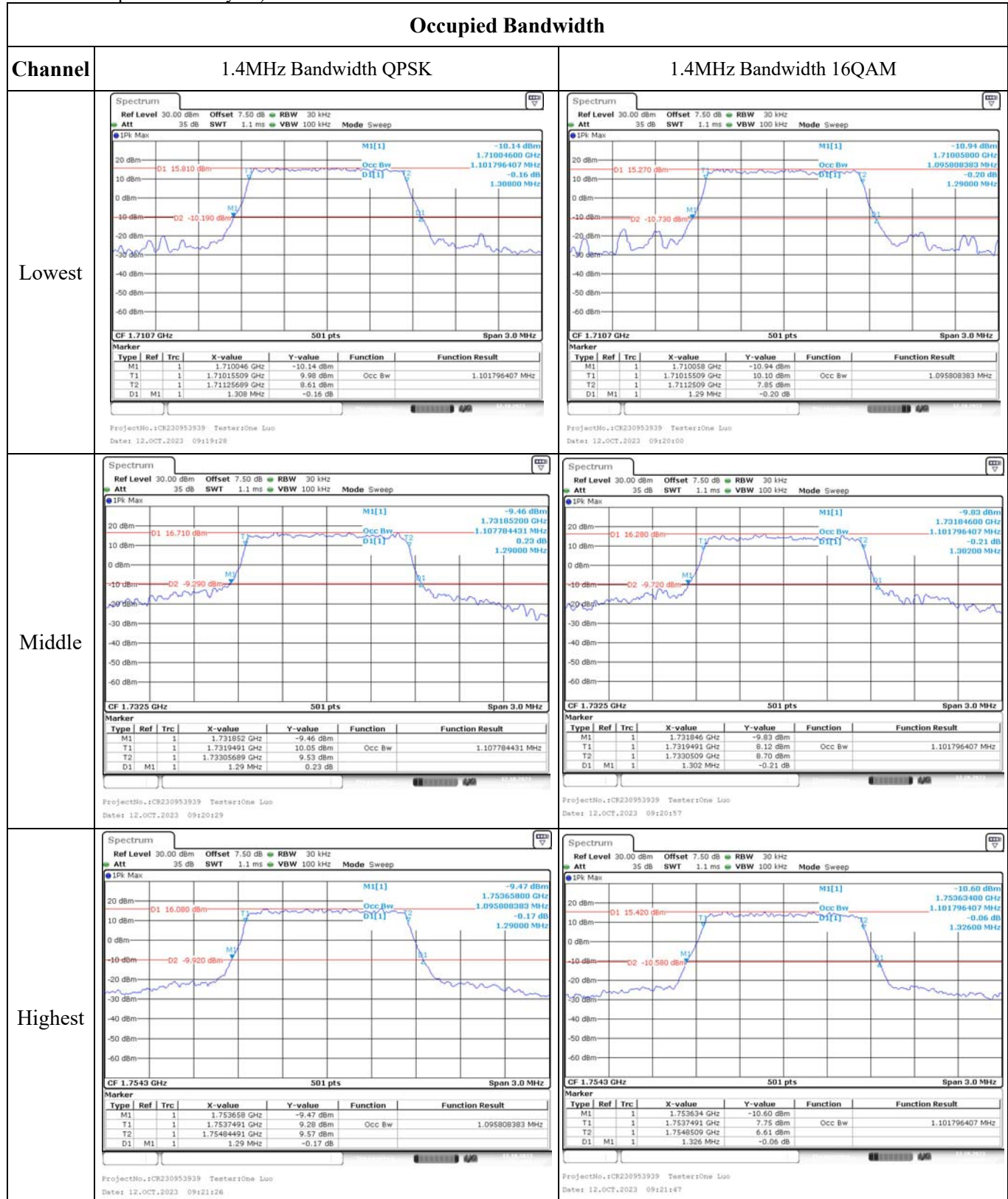
Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

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	1711.036	1710.00	1754.095	1755
	-20	3.8	1711.096	1710.00	1754.054	1755
	-10	3.8	1711.043	1710.00	1754.022	1755
	0	3.8	1711.031	1710.00	1754.006	1755
	10	3.8	1711.093	1710.00	1754.041	1755
	20	3.8	1711.058	1710.00	1754.022	1755
	30	3.8	1711.070	1710.00	1754.043	1755
	40	3.8	1711.022	1710.00	1754.094	1755
	50	3.8	1711.094	1710.00	1754.008	1755
Frequency Stability vs. Voltage	20	3.6	1711.030	1710.00	1754.033	1755
	20	4.35	1711.079	1710.00	1754.090	1755
					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	1711.021	1710.00	1754.045	1755
	-20	3.8	1711.058	1710.00	1754.080	1755
	-10	3.8	1711.029	1710.00	1754.002	1755
	0	3.8	1711.036	1710.00	1754.051	1755
	10	3.8	1711.089	1710.00	1754.008	1755
	20	3.8	1711.058	1710.00	1754.022	1755
	30	3.8	1711.076	1710.00	1754.060	1755
	40	3.8	1711.064	1710.00	1754.047	1755
	50	3.8	1711.080	1710.00	1754.047	1755
Frequency Stability vs. Voltage	20	3.6	1711.050	1710.00	1754.003	1755
	20	4.35	1711.077	1710.00	1754.052	1755
					Result:	Pass

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



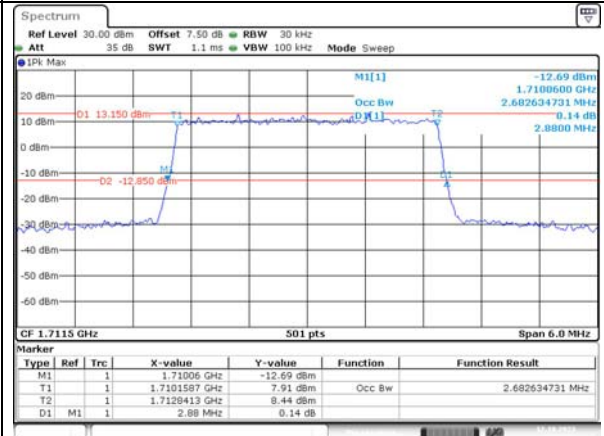
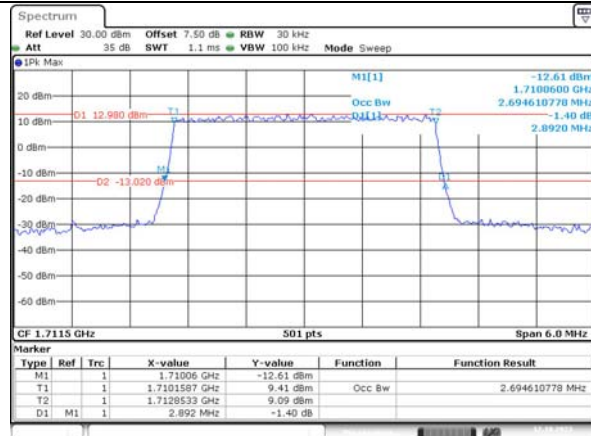
Occupied Bandwidth

Channel

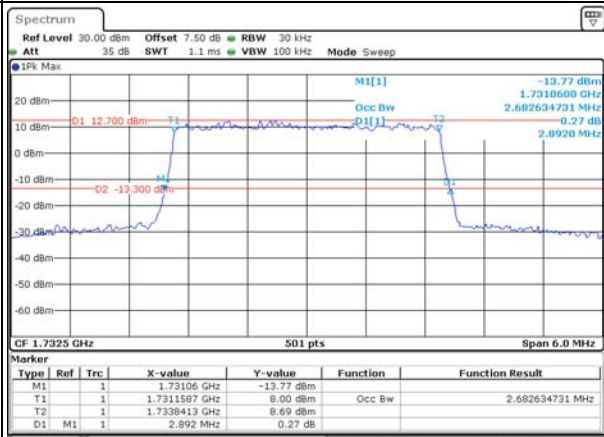
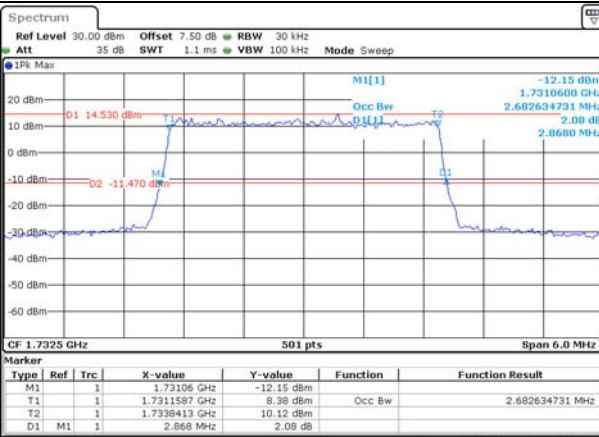
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

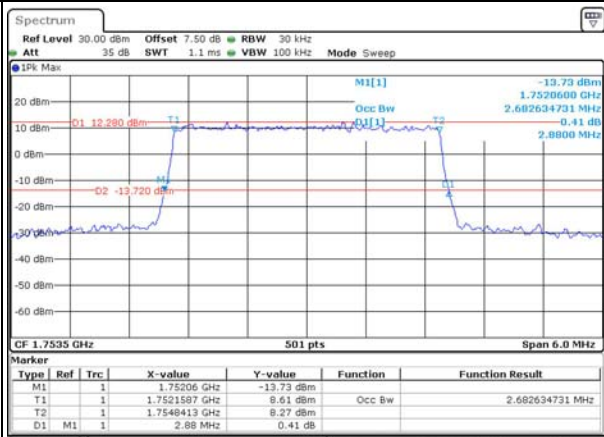
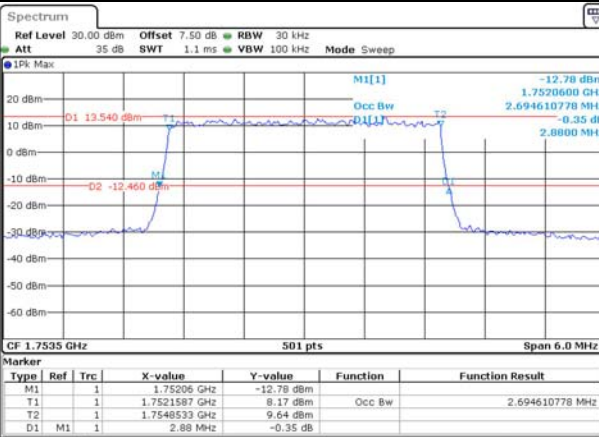
Lowest



Middle



Highest



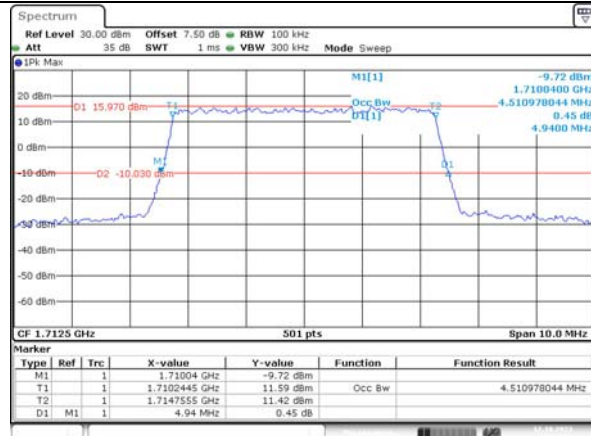
Occupied Bandwidth

Channel

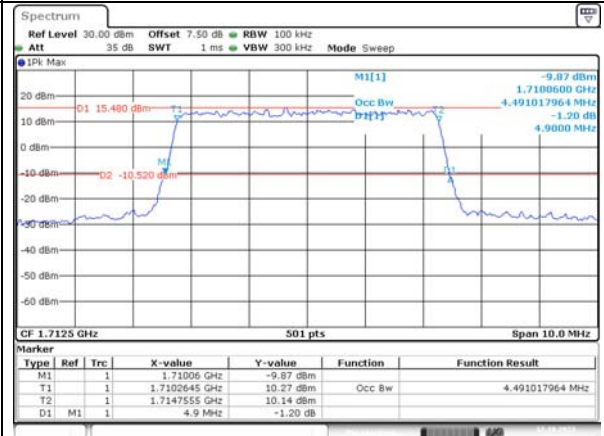
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

Lowest

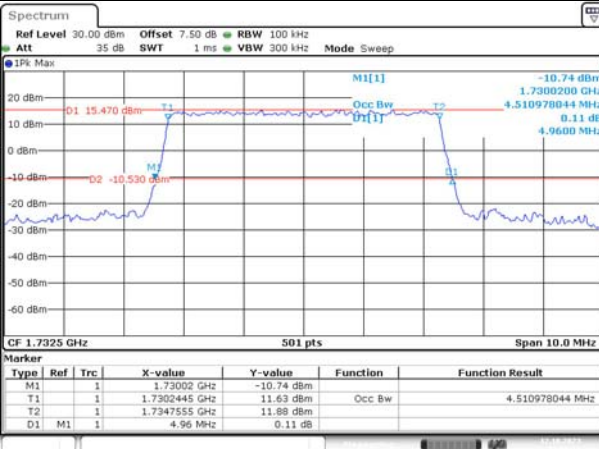


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Date: 12.OCT.2023 09:12:107

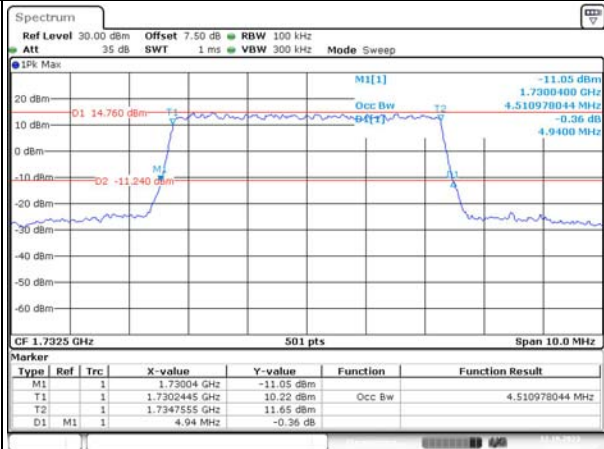


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Date: 12.OCT.2023 09:12:137

Middle

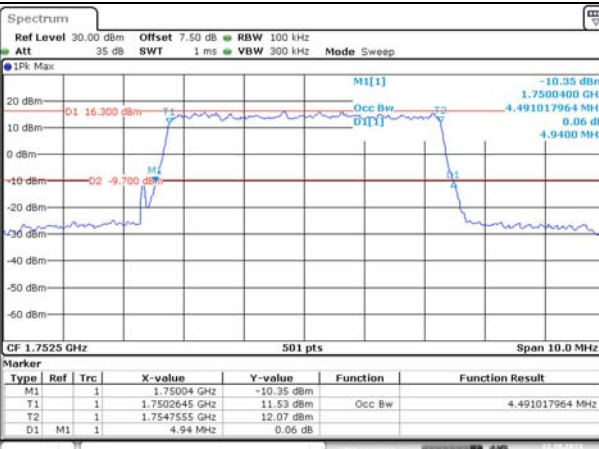


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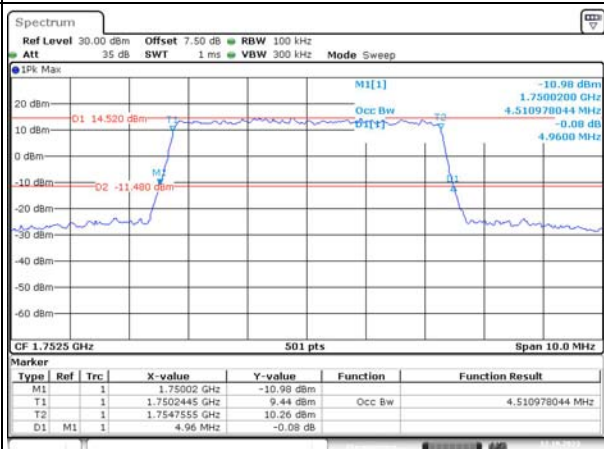


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 09:12:134

Highest



ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 09:12:104



ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 09:12:133

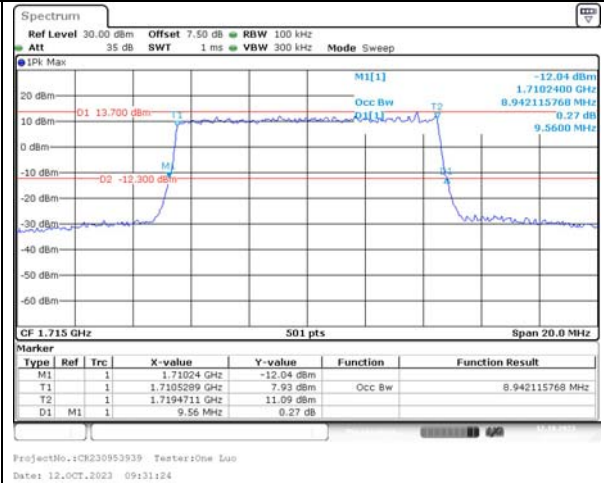
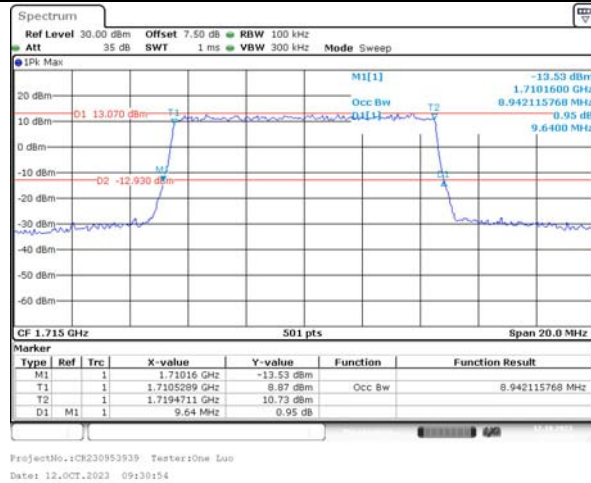
Occupied Bandwidth

Channel

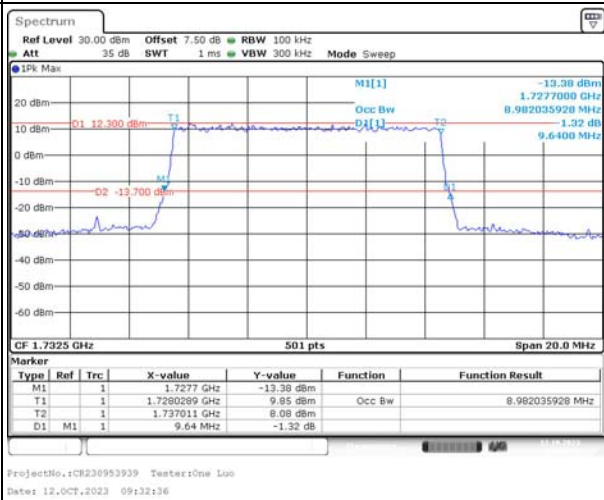
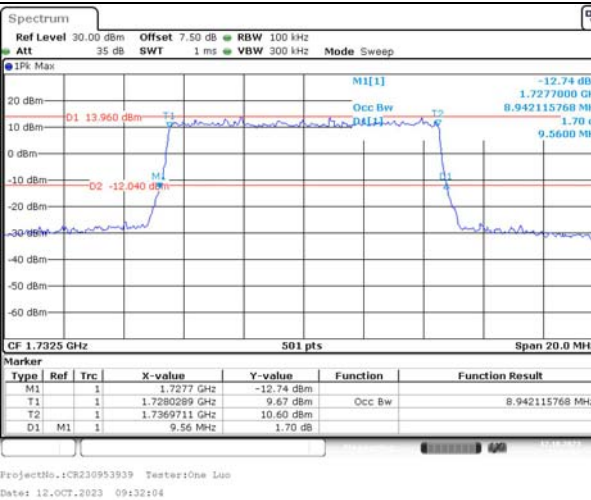
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

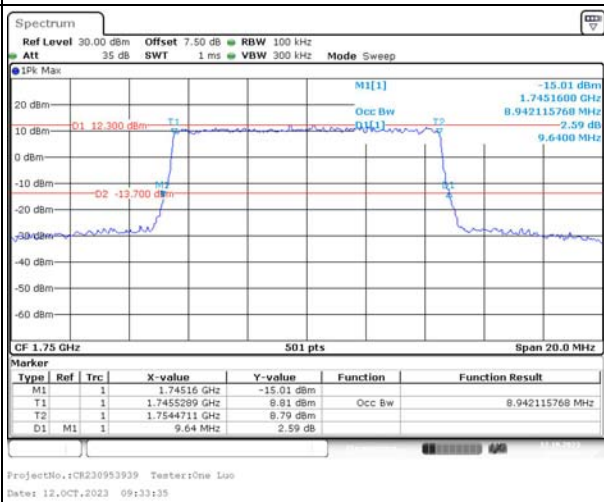
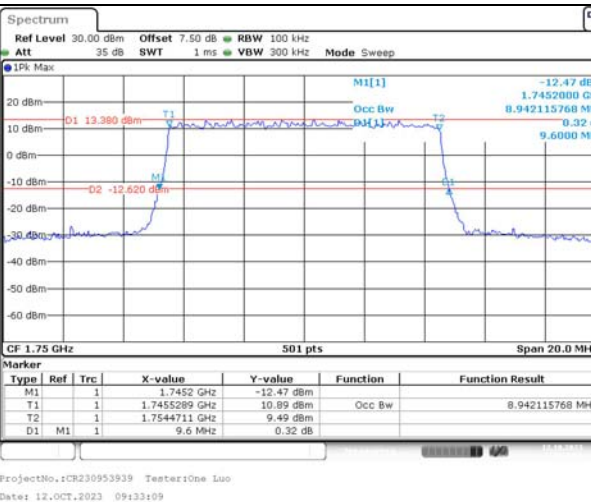
Lowest



Middle



Highest



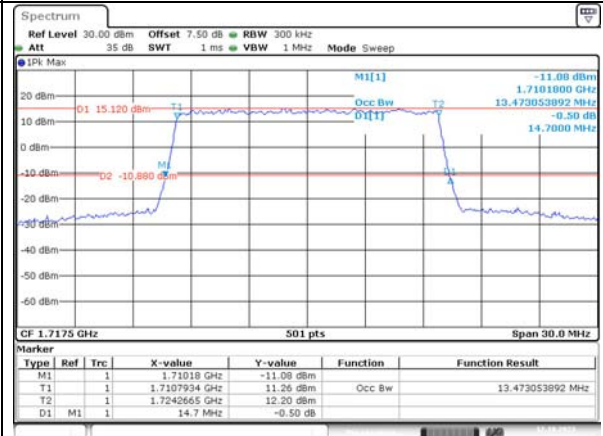
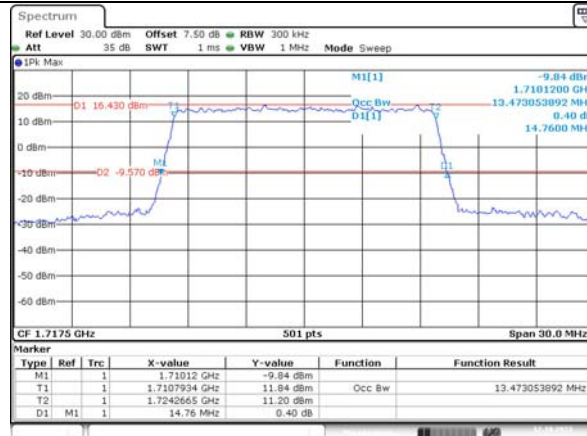
Occupied Bandwidth

Channel

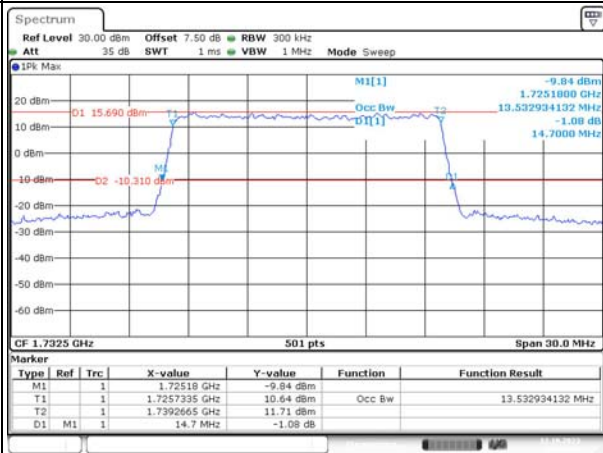
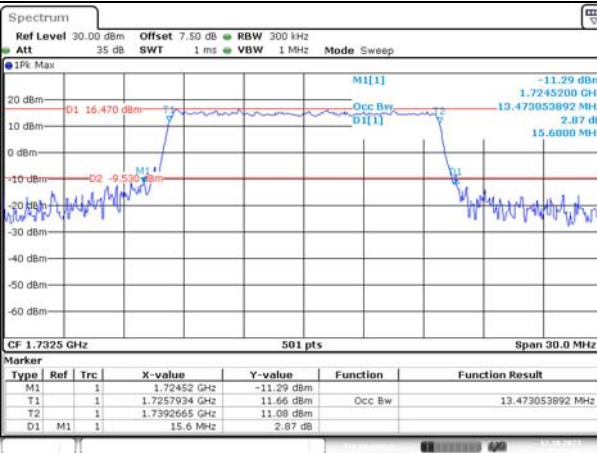
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

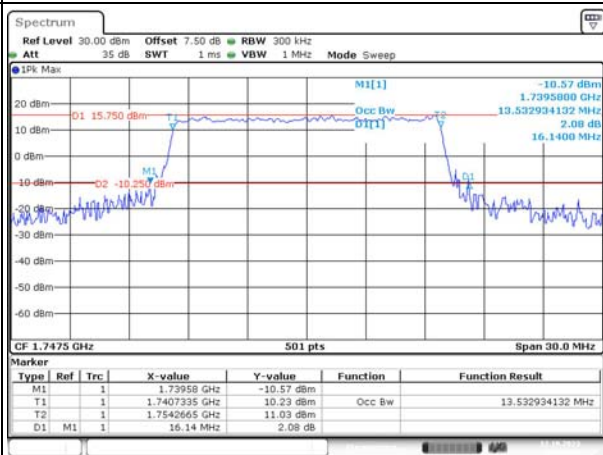
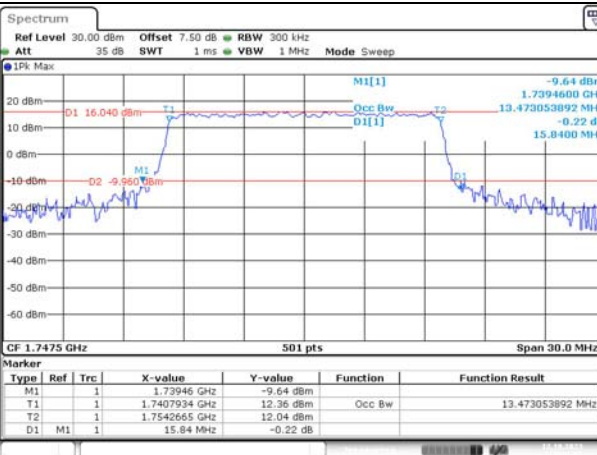
Lowest



Middle



Highest



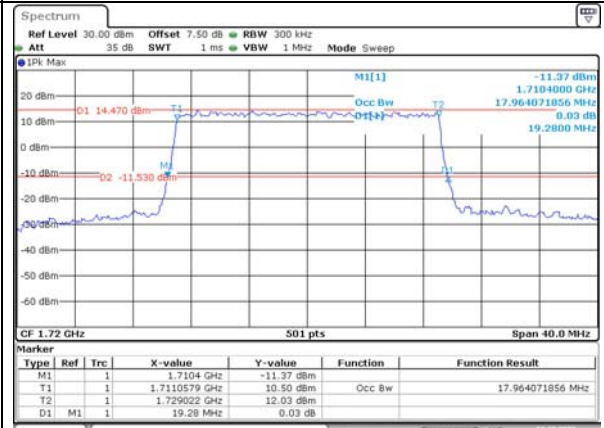
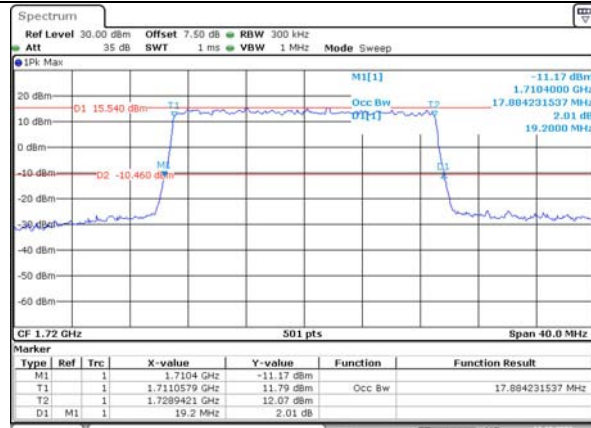
Occupied Bandwidth

Channel

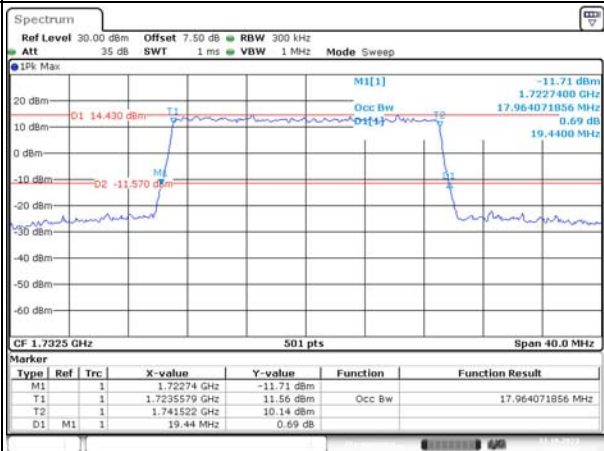
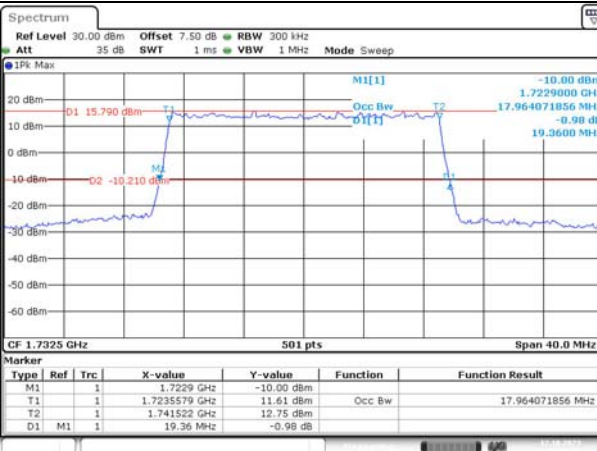
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

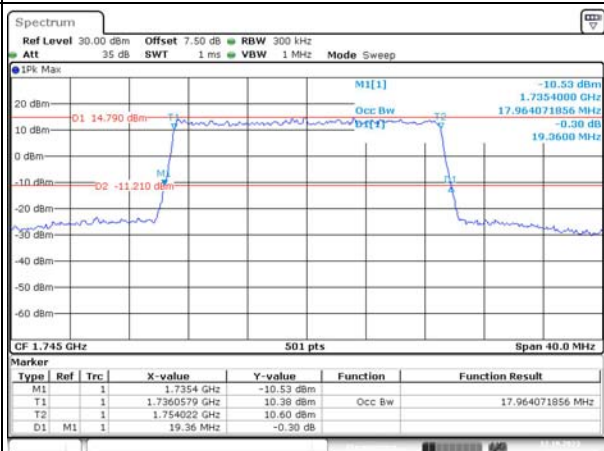
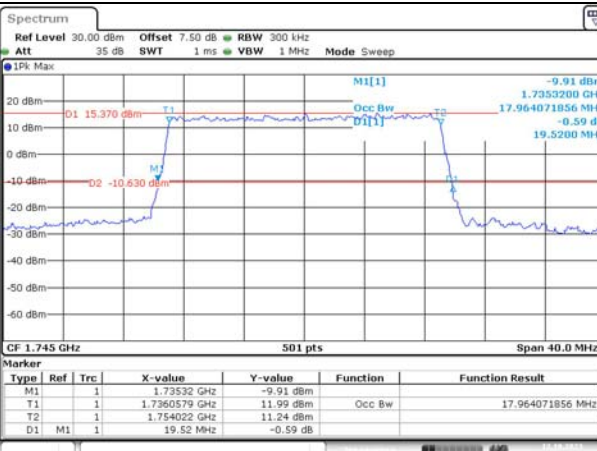
Lowest



Middle



Highest

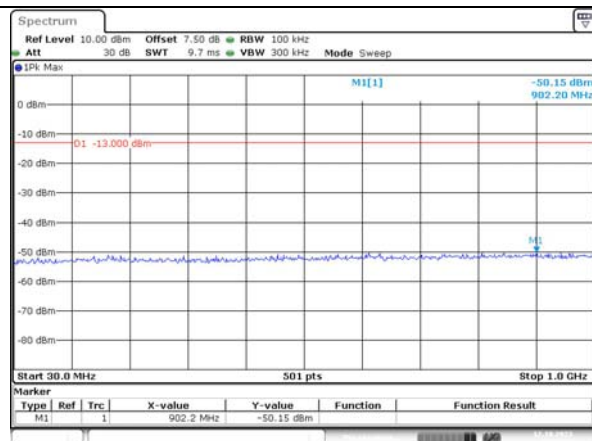


Spurious Emissions at Antenna Terminal

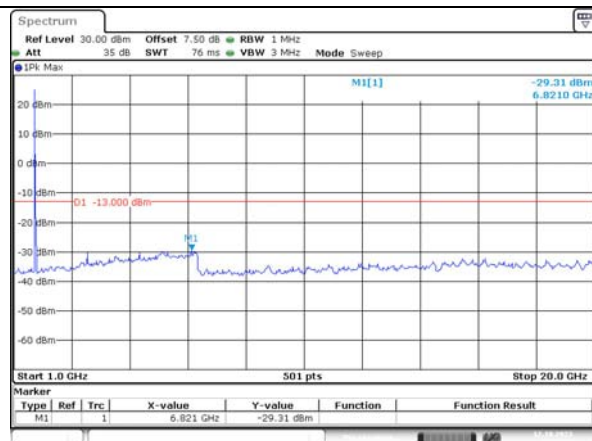
Channel

1.4MHz Bandwidth QPSK

Lowest

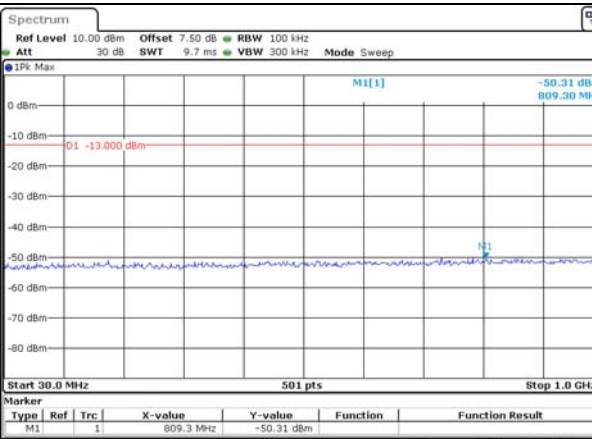


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:24:53

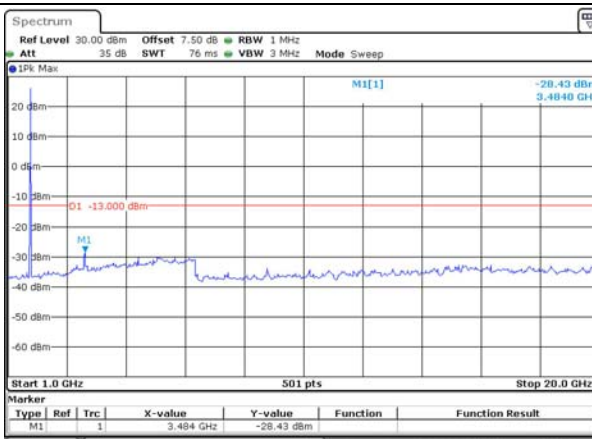


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:25:19

Middle

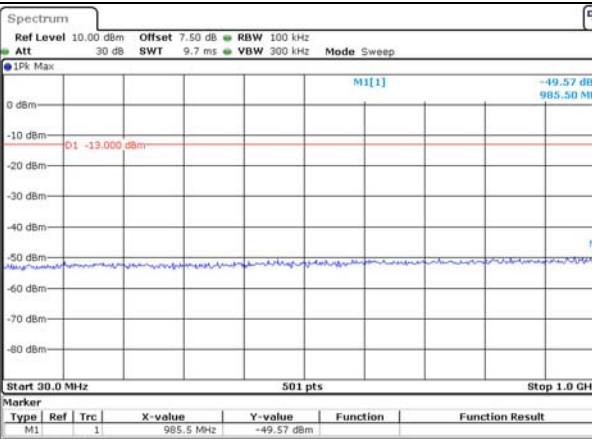


ProjectNo.:CR230953939 Testers:One Luo
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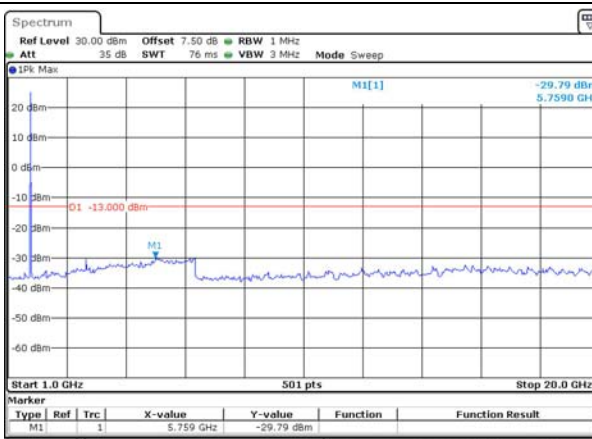


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:26:10

Highest



ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:26:44



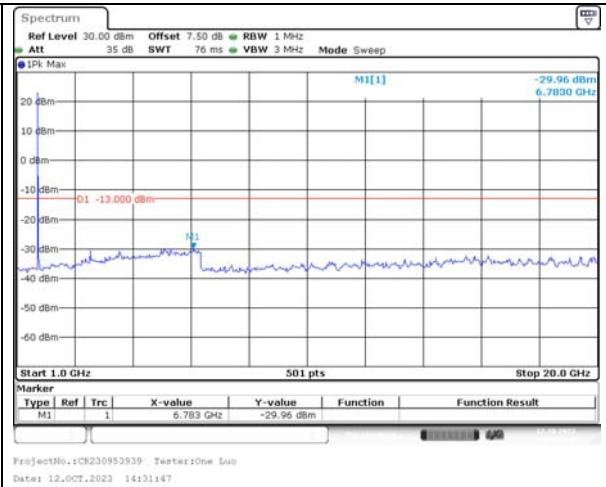
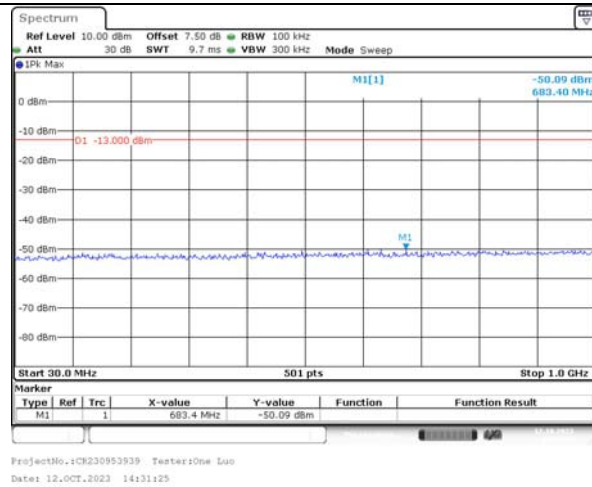
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Date: 12.OCT.2023 14:27:19

Spurious Emissions at Antenna Terminal

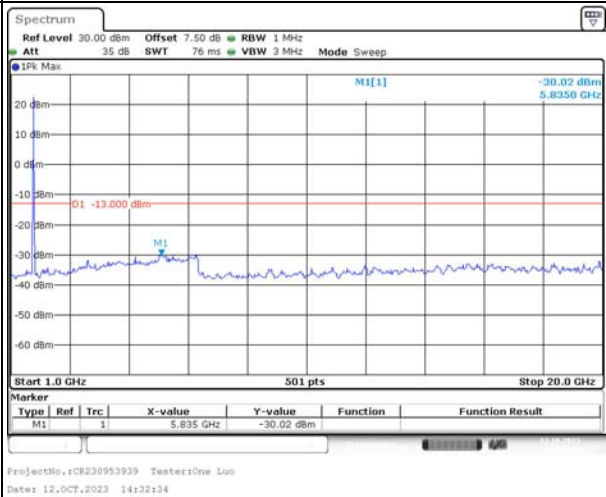
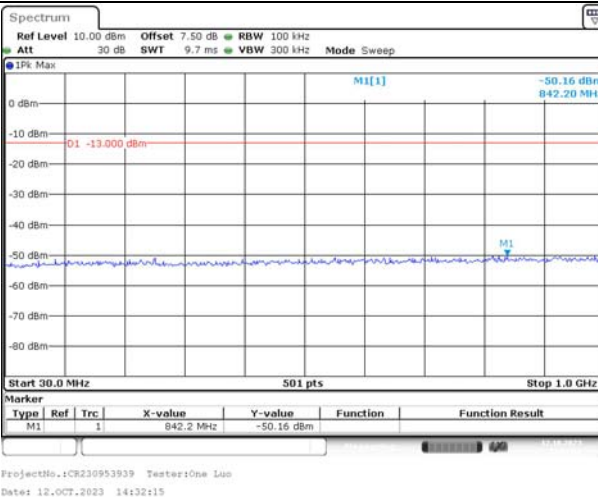
Channel

3MHz Bandwidth QPSK

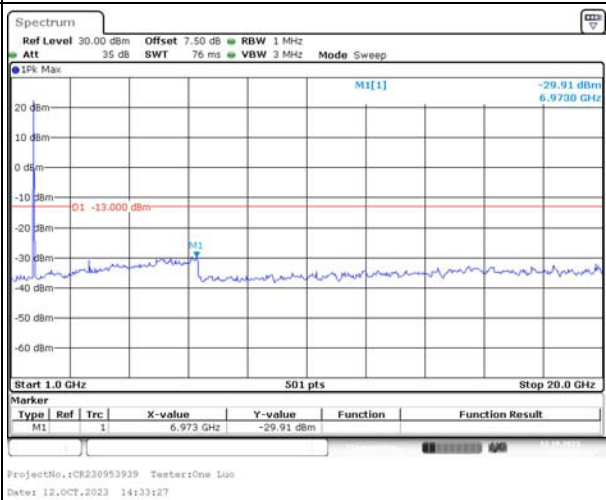
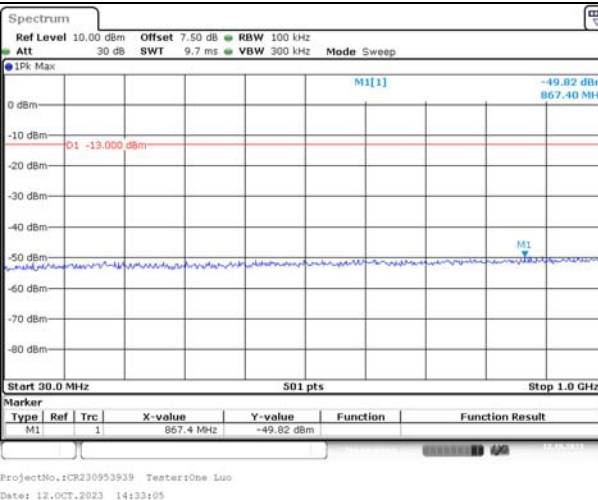
Lowest



Middle



Highest

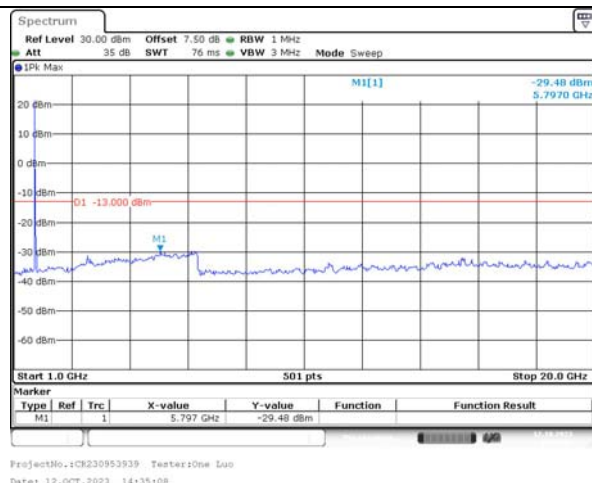
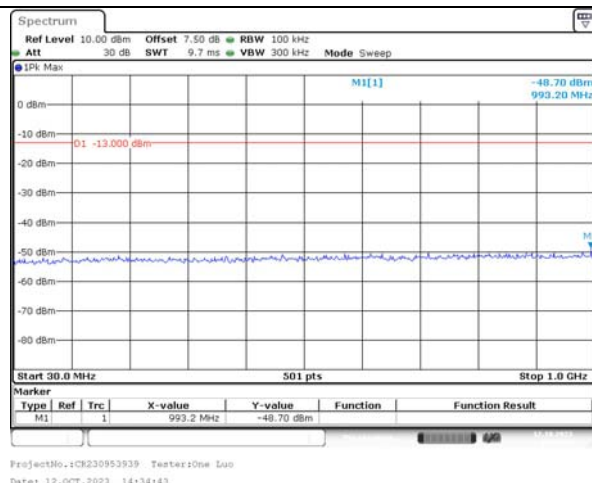


Spurious Emissions at Antenna Terminal

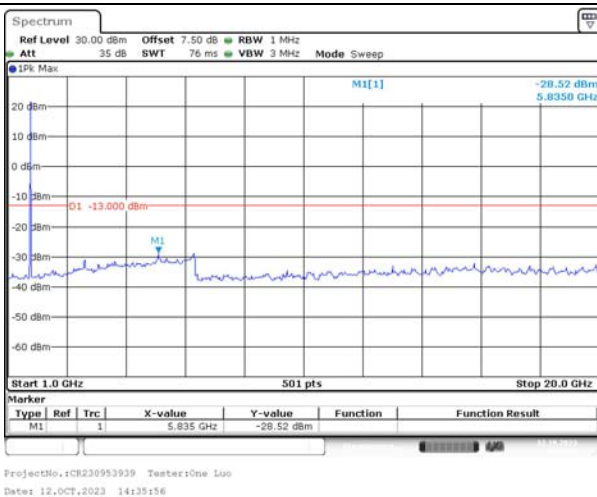
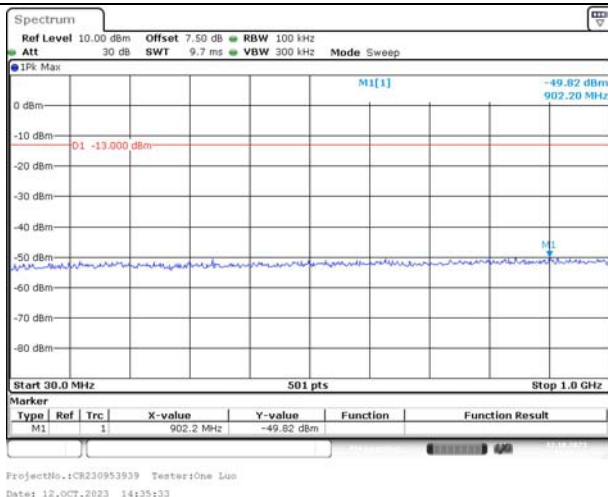
Channel

5MHz Bandwidth QPSK

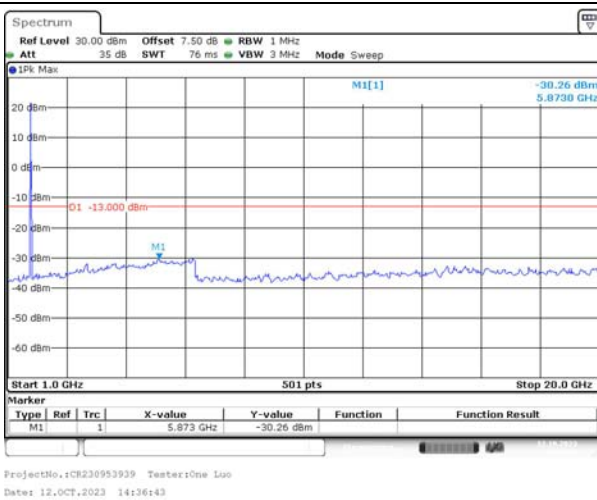
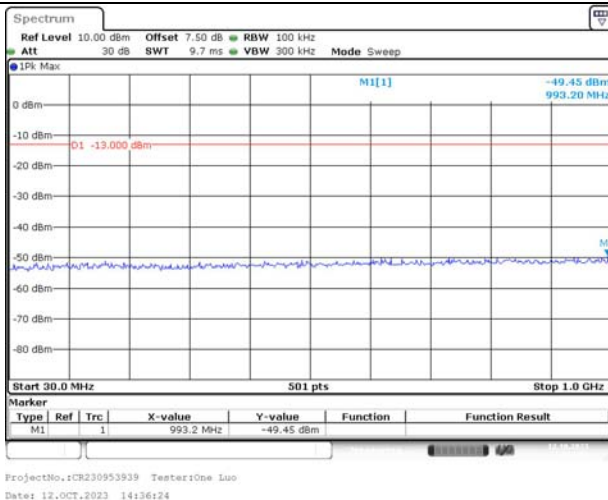
Lowest



Middle



Highest

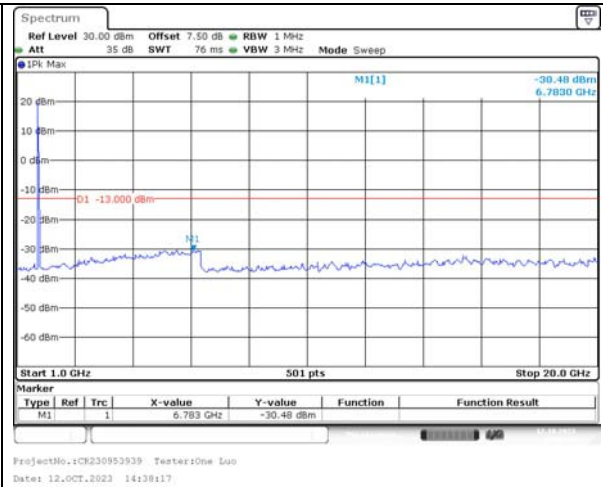
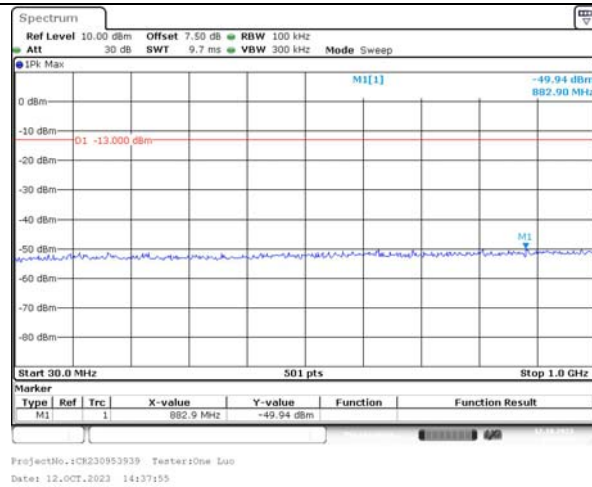


Spurious Emissions at Antenna Terminal

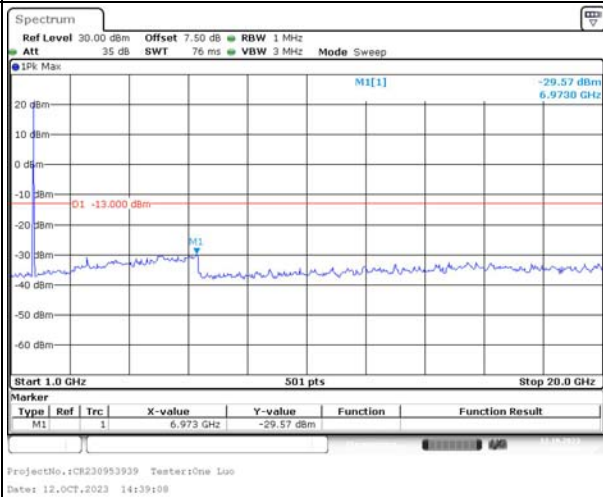
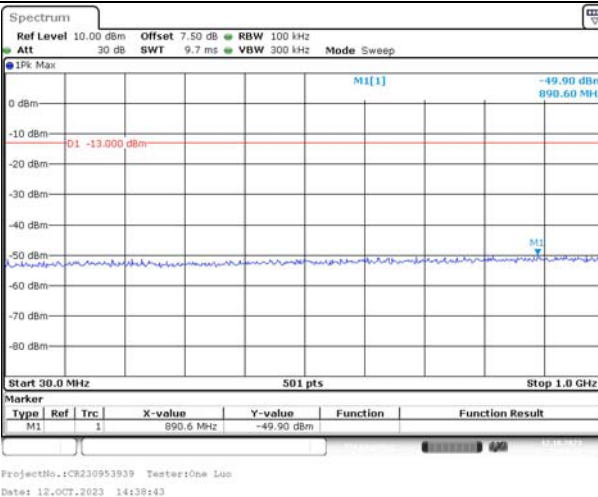
Channel

10MHz Bandwidth QPSK

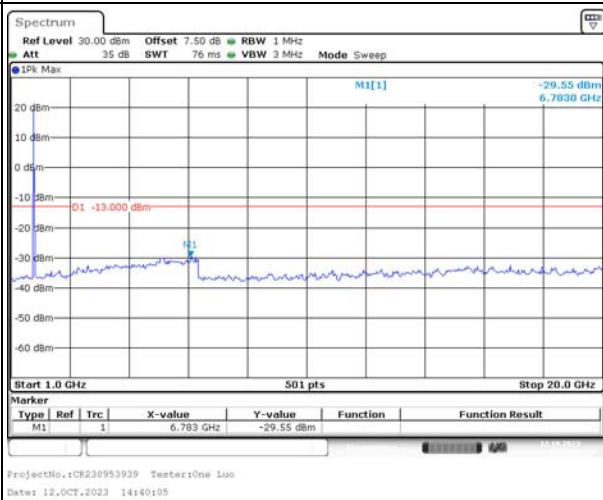
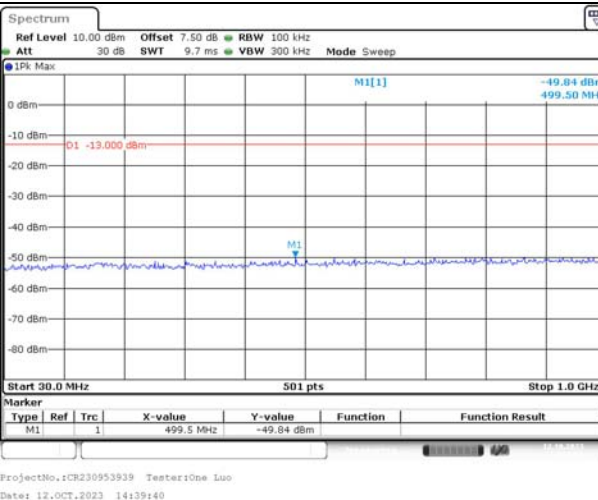
Lowest



Middle



Highest

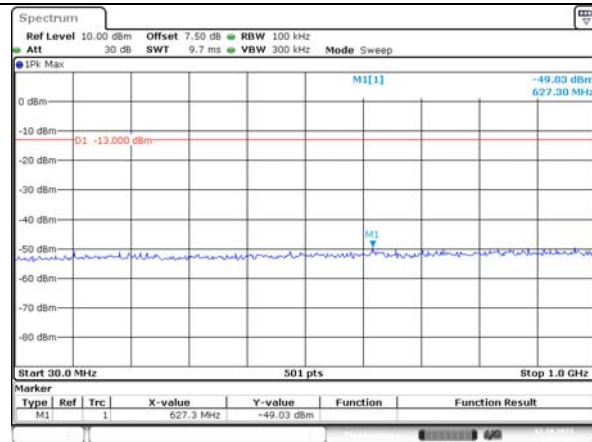


Spurious Emissions at Antenna Terminal

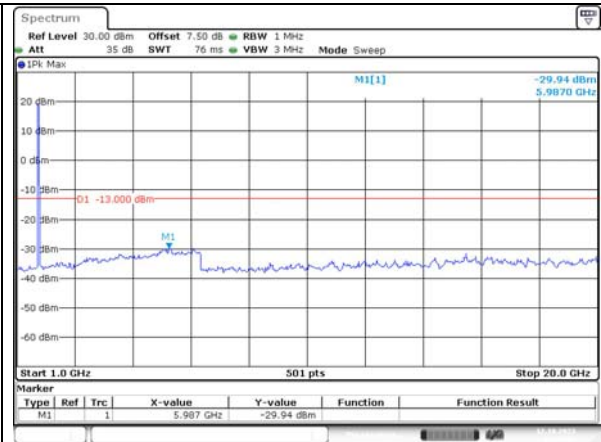
Channel

15MHz Bandwidth QPSK

Lowest

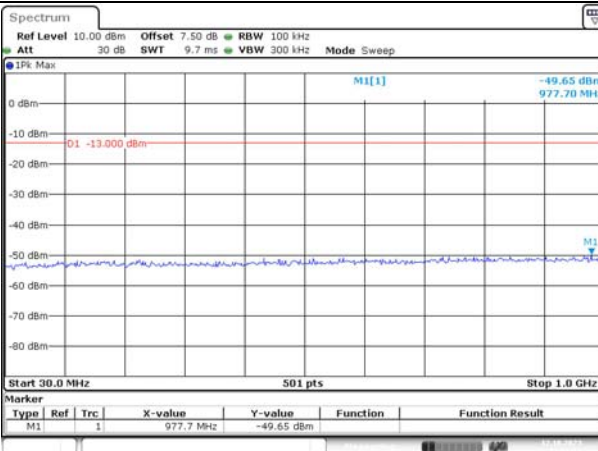


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:41:06

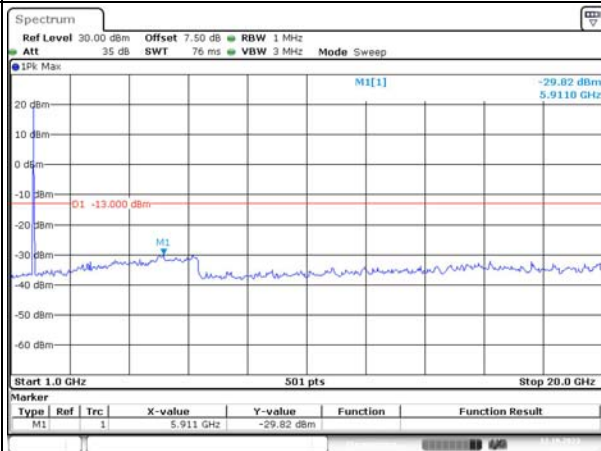


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:41:11

Middle

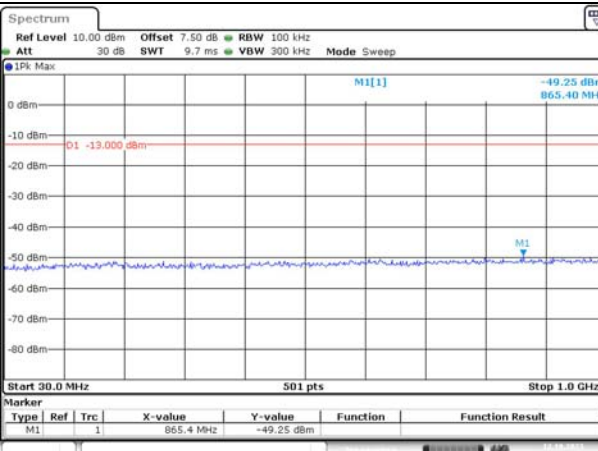


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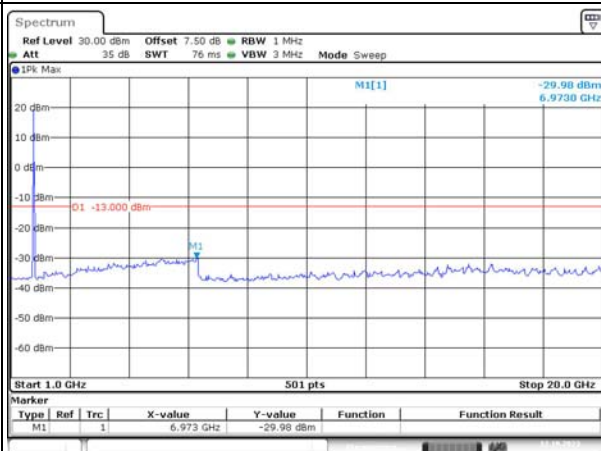


ProjectNo.:CR230953939 Testers:One Luo
Date: 12.OCT.2023 14:42:13

Highest



ProjectNo.:CR230953939 Testers:One Luo
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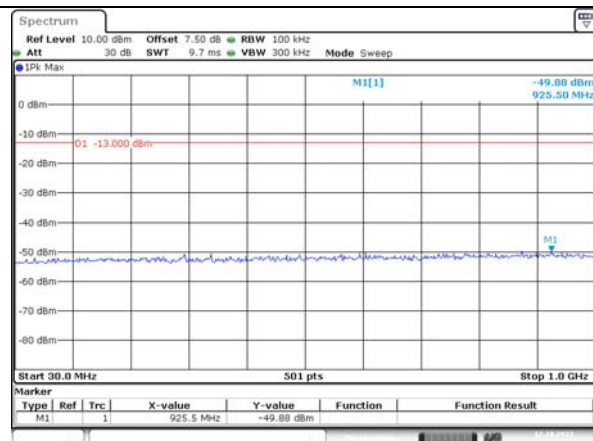
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Spurious Emissions at Antenna Terminal

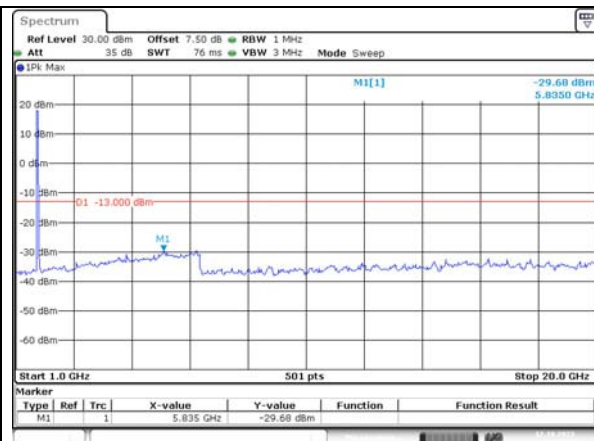
Channel

20MHz Bandwidth QPSK

Lowest

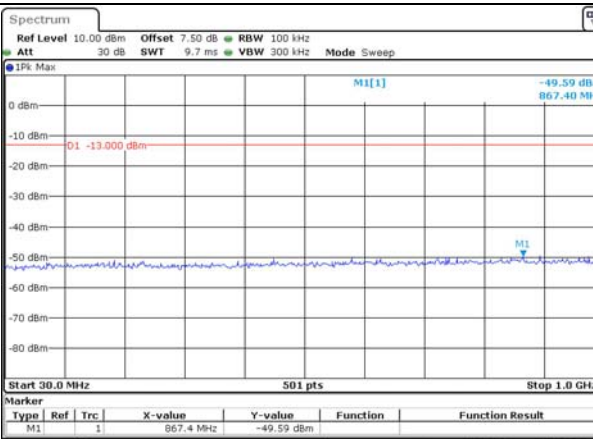


ProjectNo.:CR230953939 TesteriOne Luo
Date: 12.OCT.2023 14:45:10

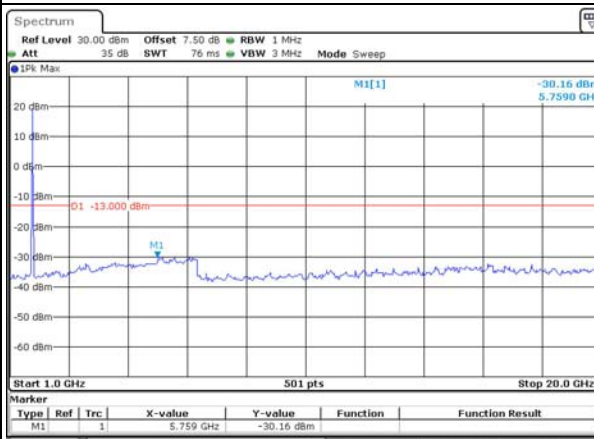


ProjectNo.:CR230953939 TesteriOne Luo
Date: 12.OCT.2023 14:46:05

Middle

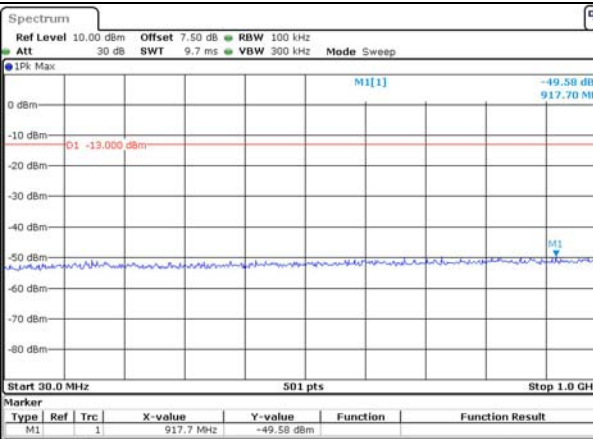


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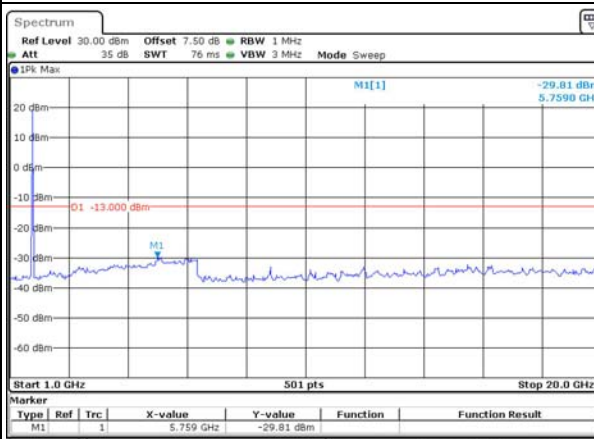


ProjectNo.:CR230953939 TesteriOne Luo
Date: 12.OCT.2023 14:46:59

Highest

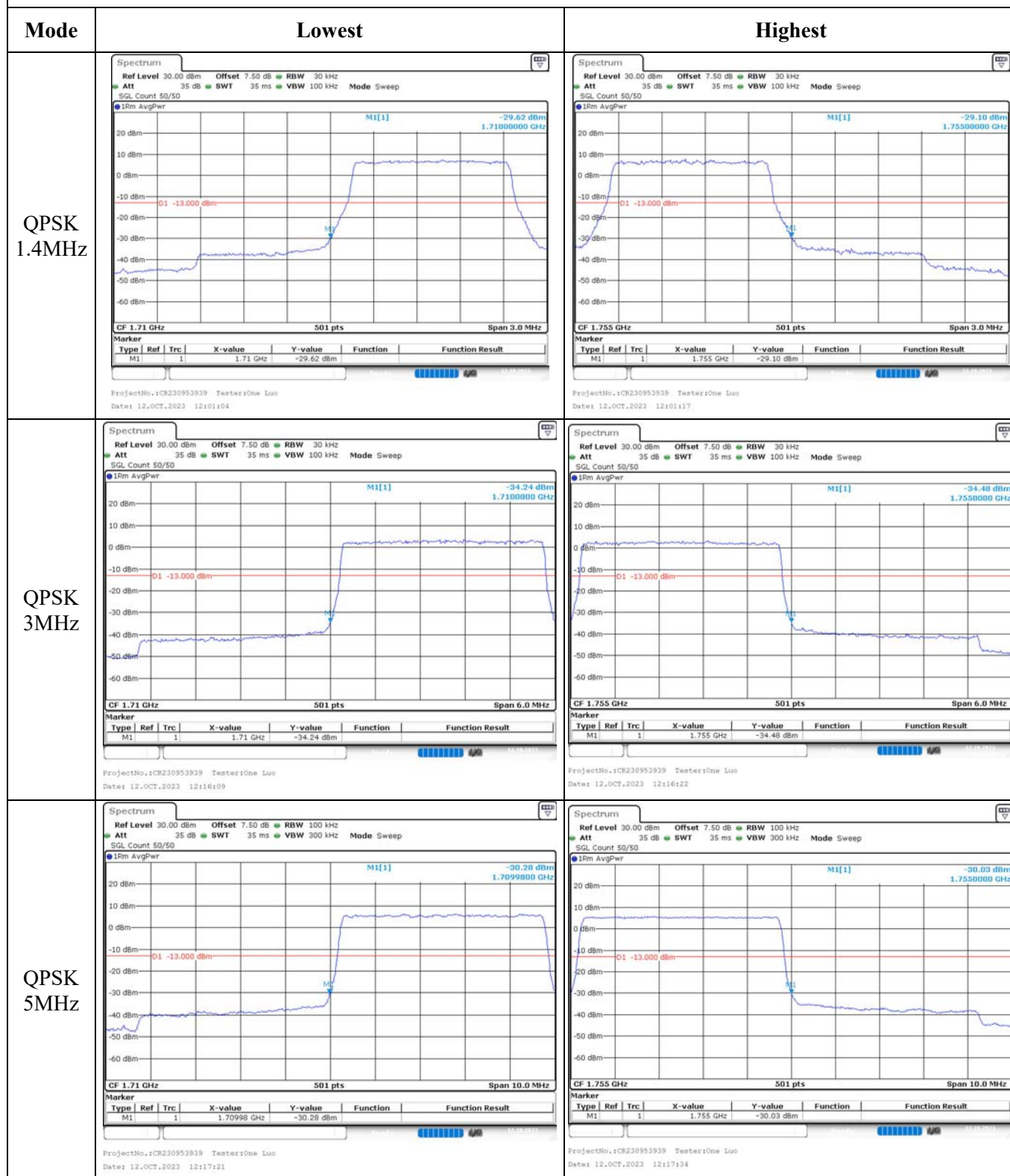


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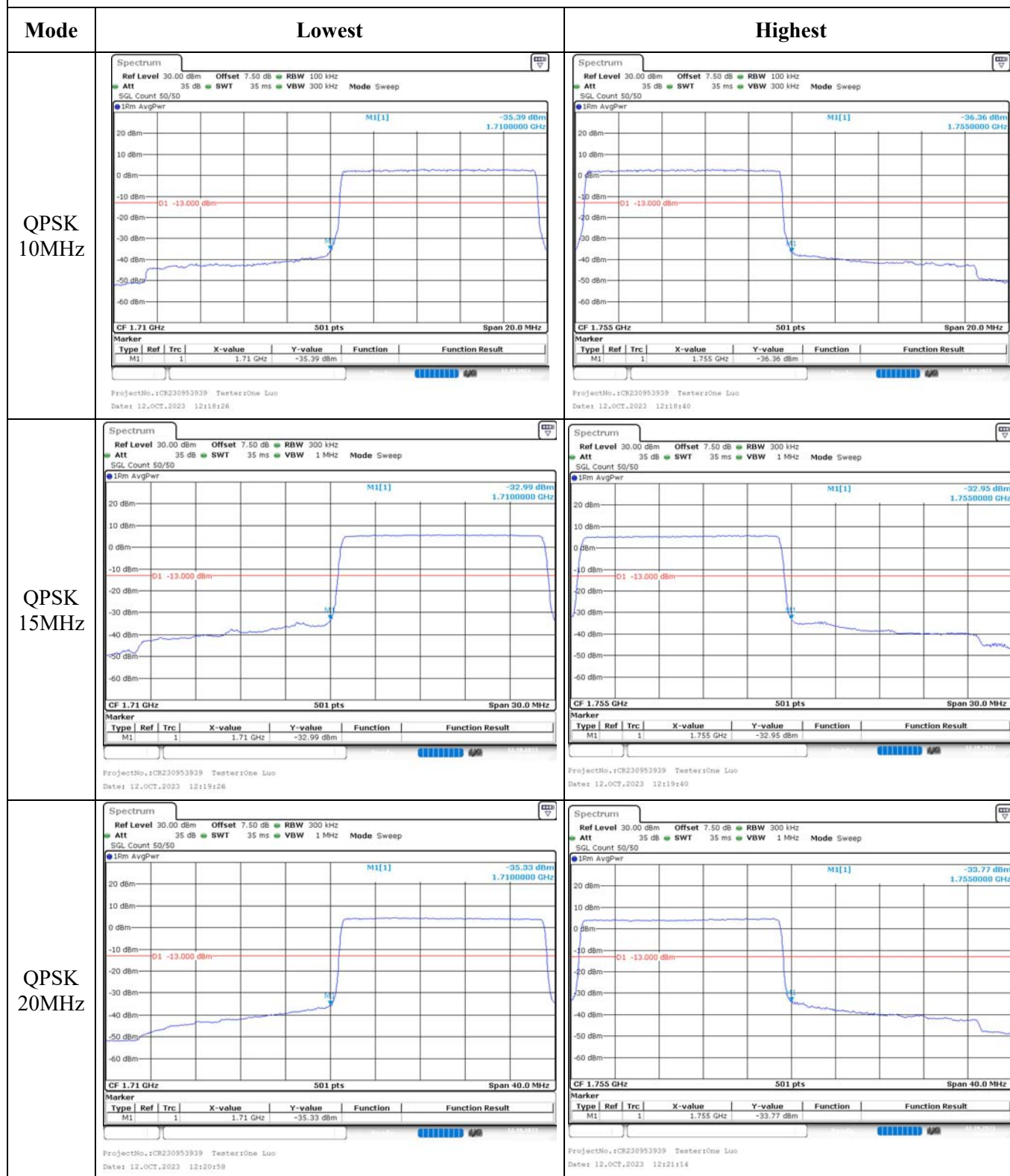


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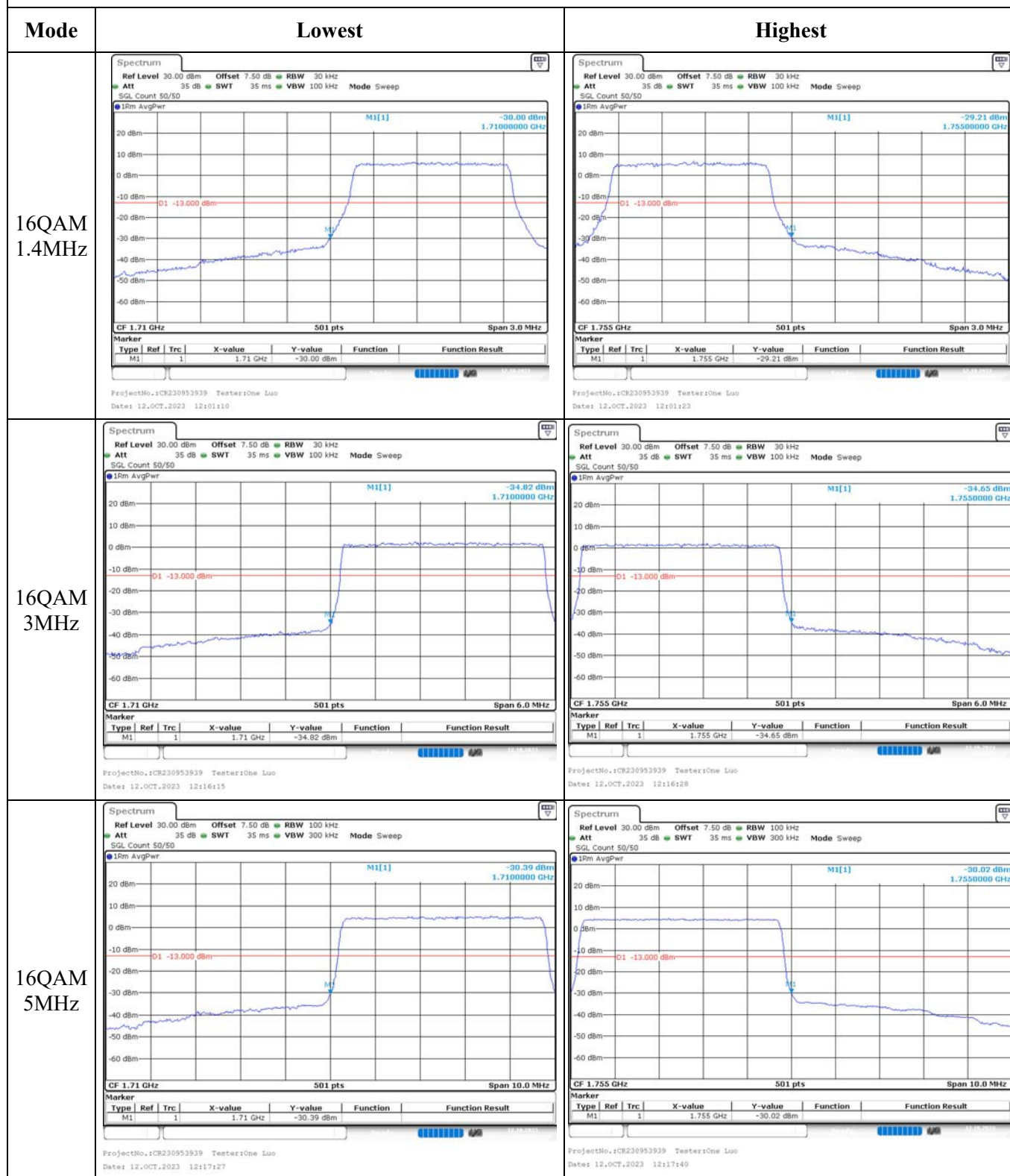
Out of band emission, Band Edge



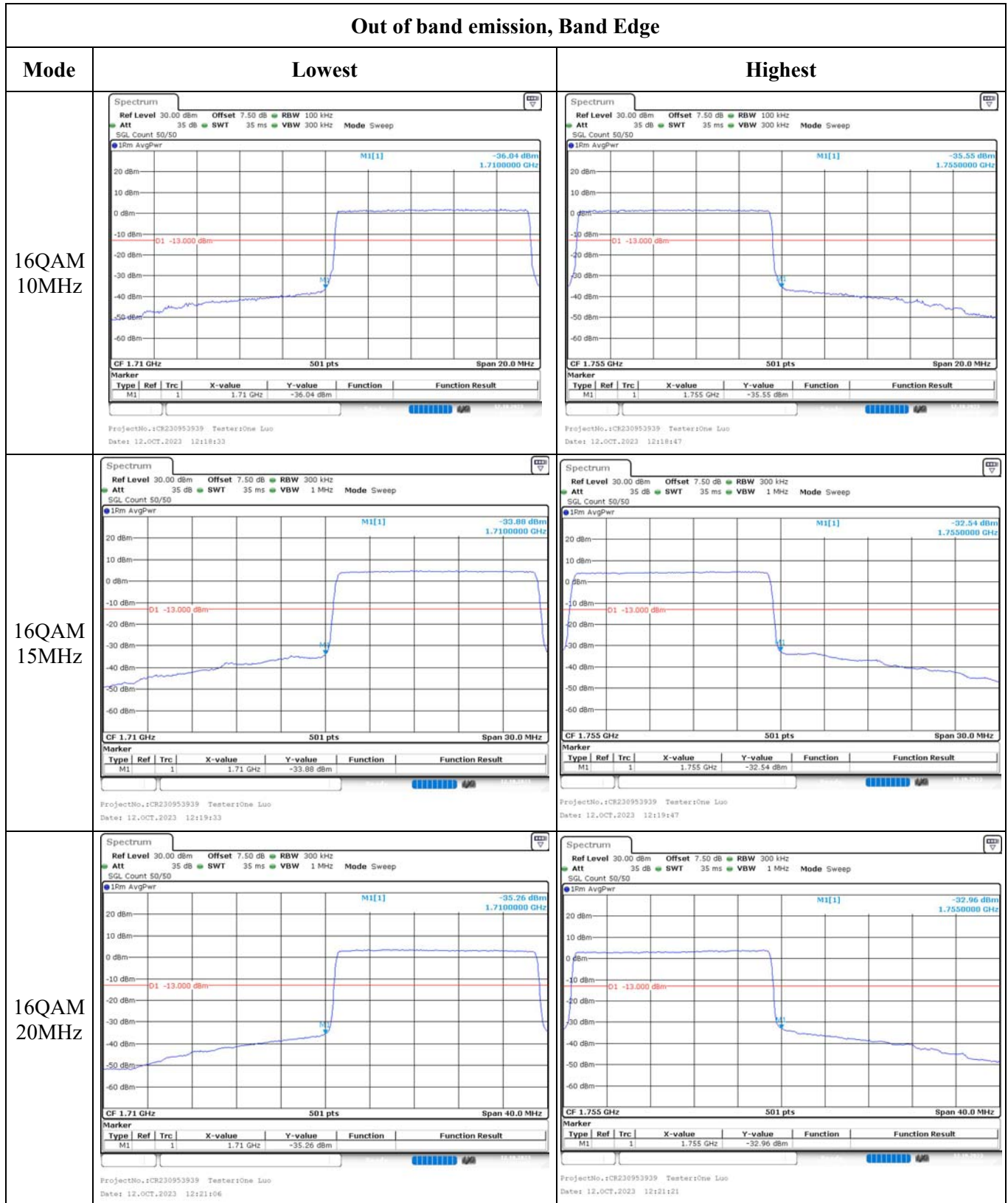
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.8 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	2B7U-2	Test Date:	2023/10/12~2023/10/16
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.2~27.5	Relative Humidity: (%)	42~52	ATM Pressure: (kPa)	100.5~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	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	22.80	22.68	22.72	21.01	38.45
	RB1#3	23.07	22.90	22.75		
	RB1#5	22.81	22.71	22.64		
	RB3#0	22.92	22.78	22.82		
	RB3#3	22.93	22.79	22.74		
	RB6#0	21.91	21.79	21.77		
1.4MHz 16QAM	RB1#0	21.98	21.71	21.77	20.06	38.45
	RB1#3	22.12	21.80	21.86		
	RB1#5	21.98	21.72	21.70		
	RB3#0	21.89	21.90	22.06		
	RB3#3	21.95	21.84	21.96		
	RB6#0	20.94	20.72	20.80		
3MHz QPSK	RB1#0	23.07	22.94	22.92	21.01	38.45
	RB1#8	23.01	22.89	22.90		
	RB1#14	22.93	22.91	22.87		
	RB6#0	21.97	22.00	21.95		
	RB6#9	21.94	21.94	21.88		
	RB15#0	22.05	21.98	21.95		
3MHz 16QAM	RB1#0	22.09	22.52	22.09	20.46	38.45
	RB1#8	22.03	22.42	22.08		
	RB1#14	21.99	22.42	22.05		
	RB6#0	20.95	21.01	20.93		
	RB6#9	20.91	21.03	20.93		
	RB15#0	21.11	21.04	20.89		
5MHz QPSK	RB1#0	22.95	22.84	22.84	20.93	38.45
	RB1#13	22.99	22.92	22.91		
	RB1#24	22.89	22.84	22.78		
	RB15#0	21.98	22.01	21.99		
	RB15#10	22.07	22.02	21.91		
	RB25#0	21.98	21.96	21.91		
5MHz 16QAM	RB1#0	22.00	21.74	22.12	20.16	38.45
	RB1#13	22.09	21.80	22.22		
	RB1#24	22.00	21.76	22.07		
	RB15#0	21.00	21.03	20.98		
	RB15#10	21.07	21.03	20.94		
	RB25#0	21.01	21.05	20.93		
10MHz QPSK	RB1#0	23.02	22.96	22.93	21.07	38.45
	RB1#25	23.13	23.02	23.05		

	RB1#49	22.96	22.92	22.92		
	RB25#0	21.96	21.99	21.90		
	RB25#25	22.07	22.06	21.92		
	RB50#0	22.03	22.04	21.94		
10MHz 16QAM	RB1#0	22.63	22.16	21.89	20.6	38.45
	RB1#25	22.66	22.20	22.02		
	RB1#49	22.52	22.08	21.90		
	RB25#0	21.02	21.02	21.00		
	RB25#25	21.12	21.04	21.02		
	RB50#0	21.05	21.05	20.95		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(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	4.49	4.75	4.09	13
	RB50#0	5.16	4.99	4.87	13
10MHz 16QAM	RB1#0	5.25	5.65	5.04	13
	RB50#0	6.09	5.91	5.8	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	1.102	1.302	1.314	1.29
1.4MHz 16QAM	1.102	1.096	1.096	1.32	1.29	1.29
3MHz QPSK	2.683	2.683	2.683	2.88	2.88	2.868
3MHz 16QAM	2.683	2.683	2.683	2.952	2.892	2.88
5MHz QPSK	4.531	4.511	4.491	5.12	4.96	4.94
5MHz 16QAM	4.491	4.531	4.511	4.9	4.94	4.96
10MHz QPSK	8.981	8.942	8.942	9.92	9.6	9.6
10MHz 16QAM	8.942	8.942	8.942	9.56	9.64	9.6

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

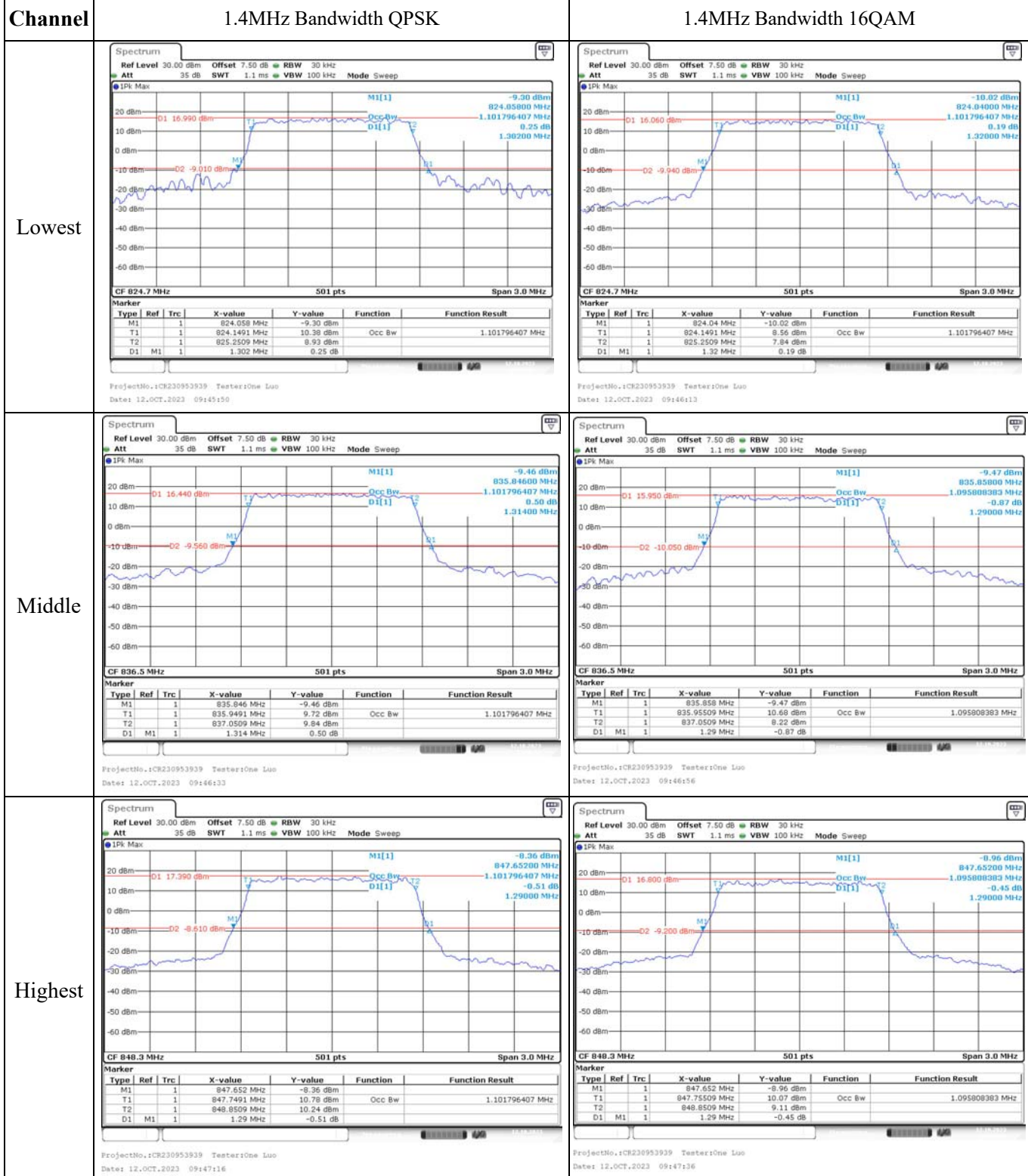
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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Frequency Stability					
Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	-7.1	-0.008	2.5
	-20	3.8	-6.97	-0.008	2.5
	-10	3.8	-5.5	-0.007	2.5
	0	3.8	6.06	0.007	2.5
	10	3.8	9.8	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	3.6	8.99	0.011	2.5
	20	4.35	-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	-6.01	-0.007	2.5
	-20	3.8	8.1	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	3.6	6.34	0.008	2.5
	20	4.35	-6.89	-0.008	2.5
				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



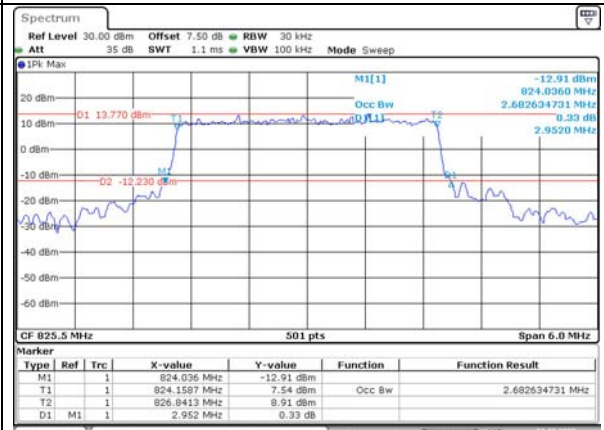
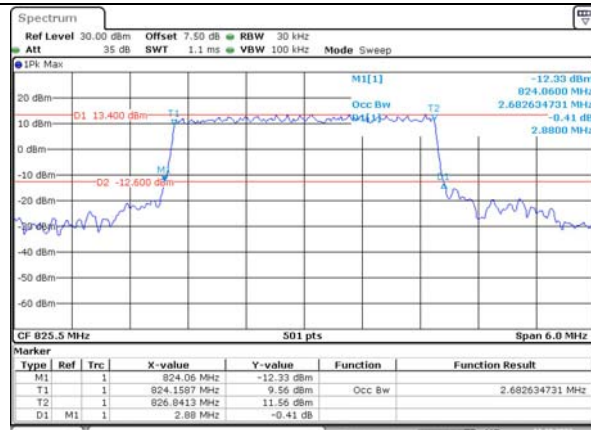
Occupied Bandwidth

Channel

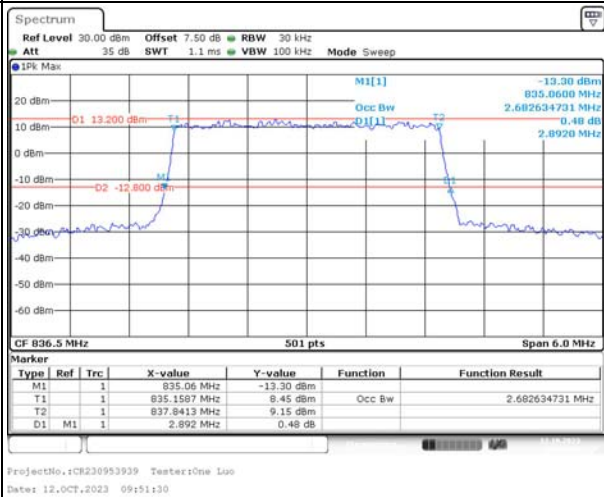
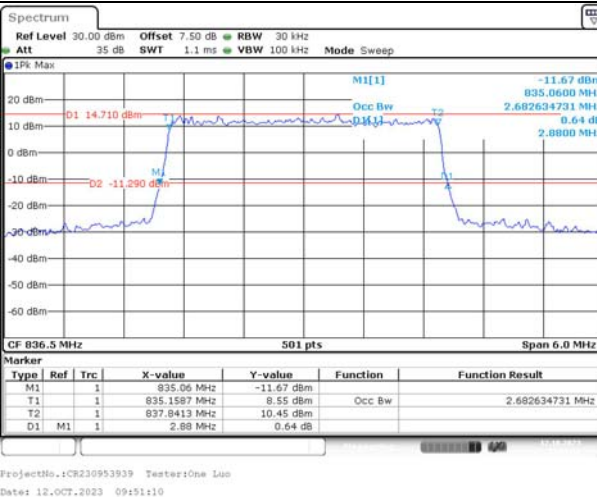
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

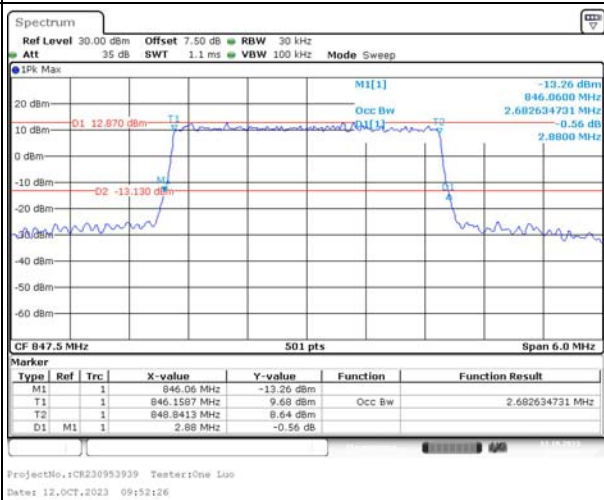
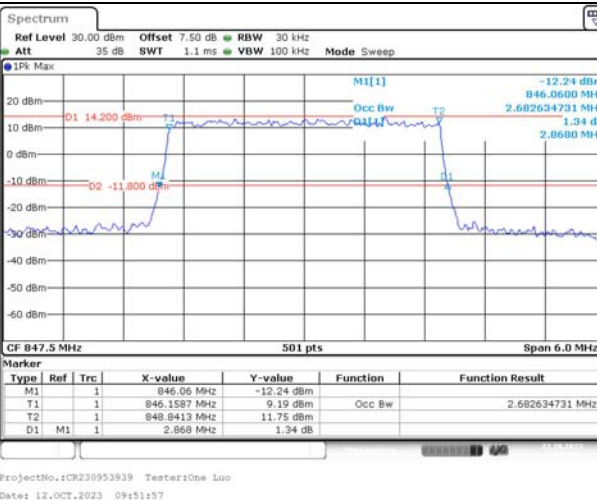
Lowest



Middle



Highest



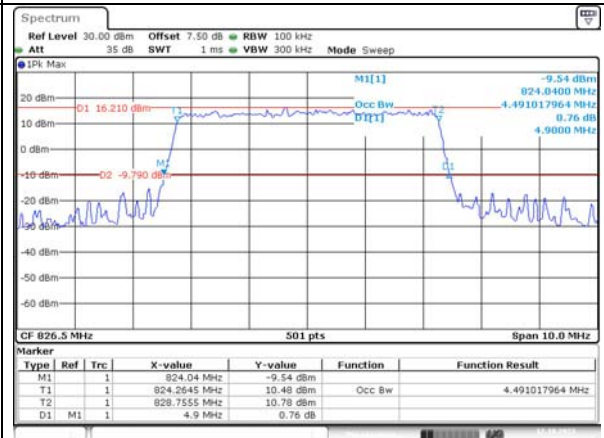
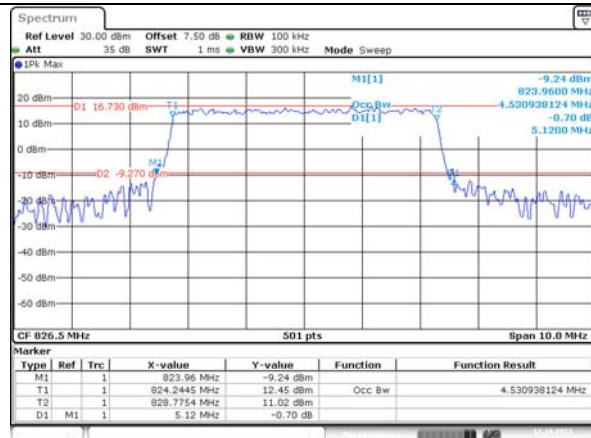
Occupied Bandwidth

Channel

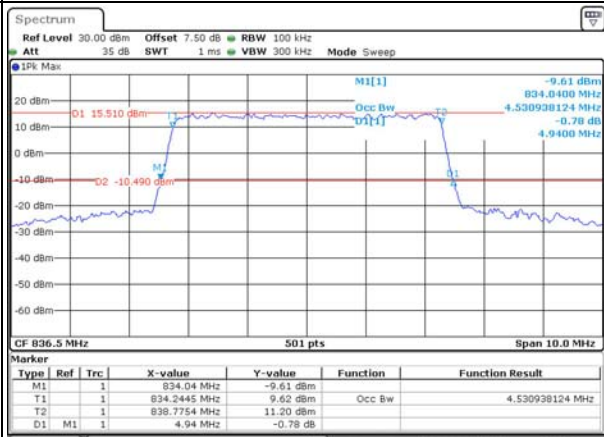
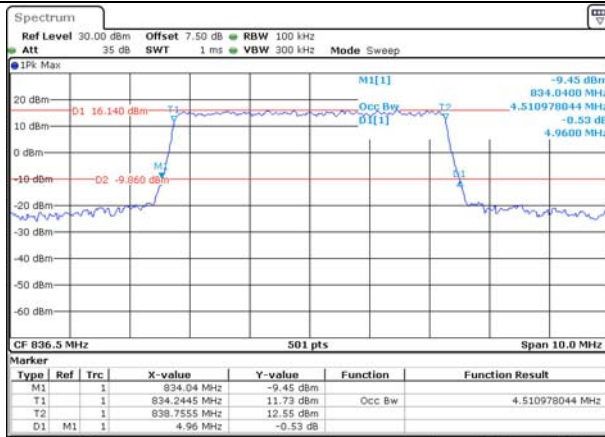
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

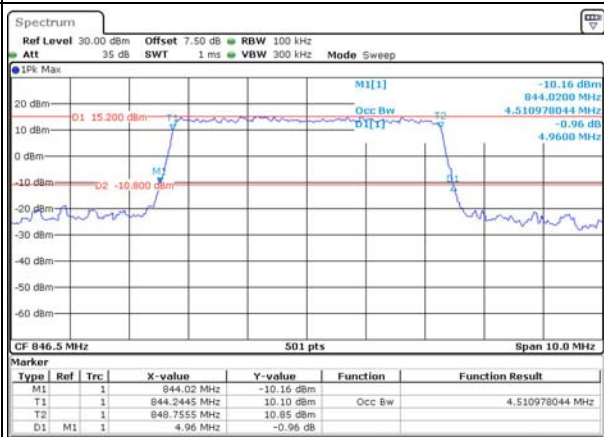
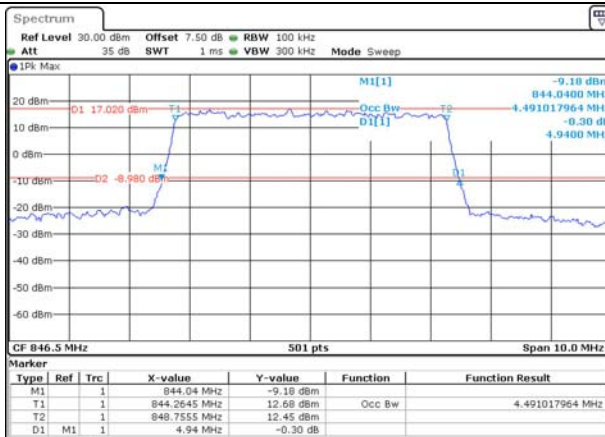
Lowest



Middle



Highest



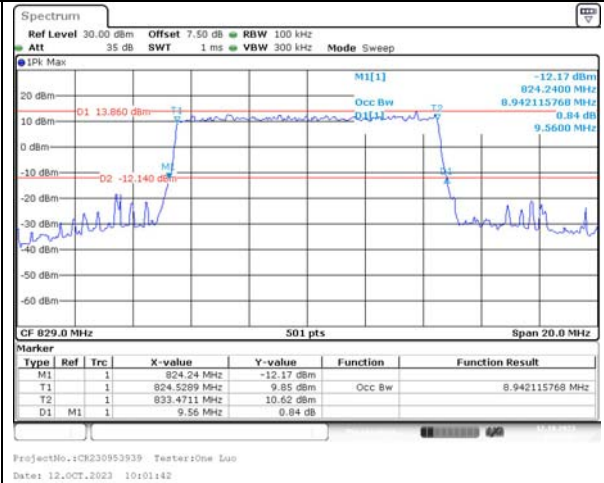
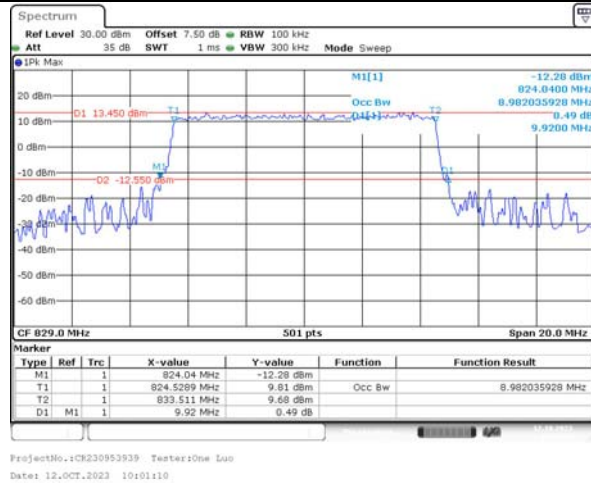
Occupied Bandwidth

Channel

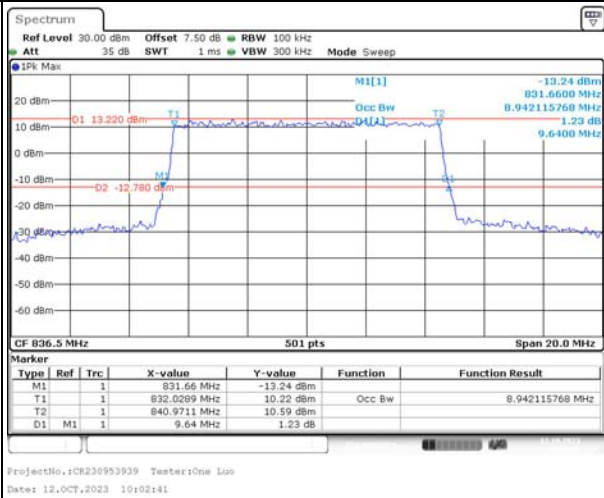
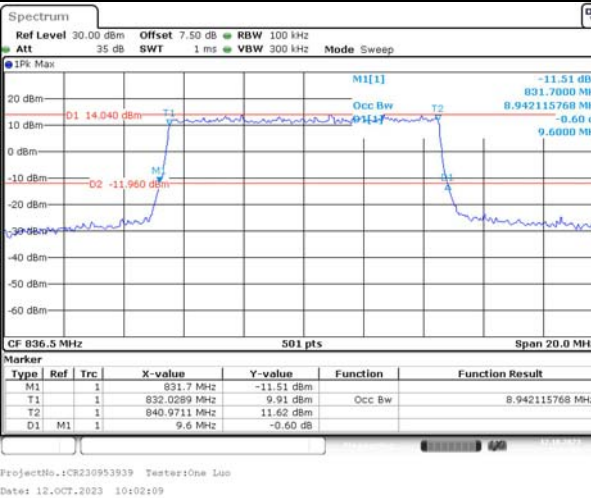
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

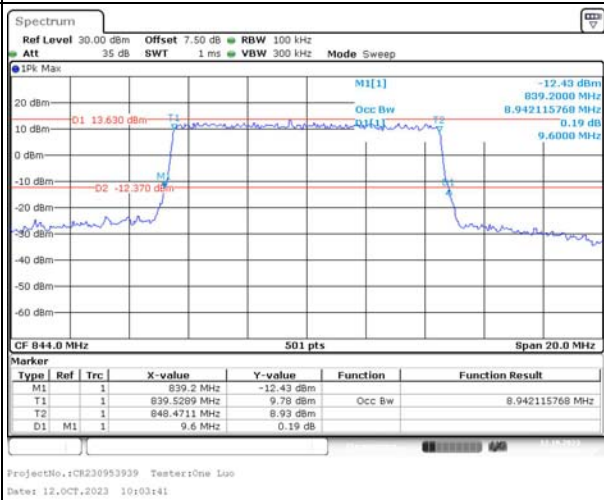
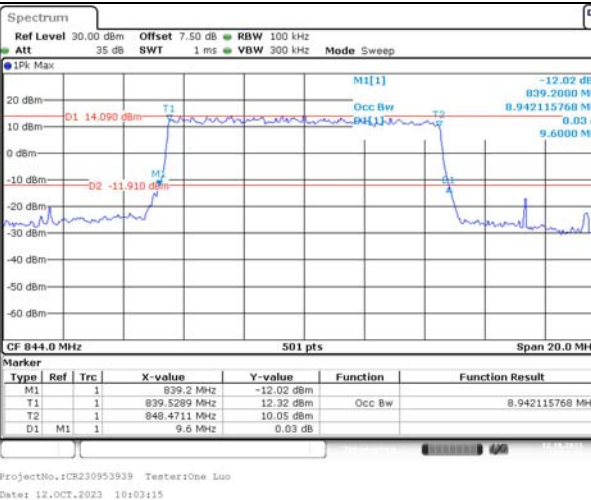
Lowest



Middle



Highest

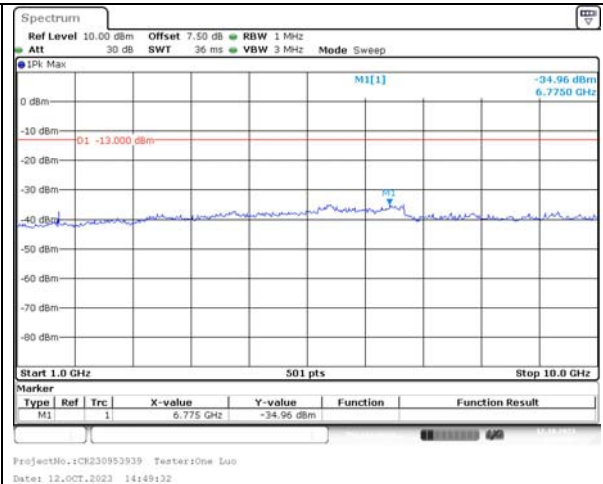
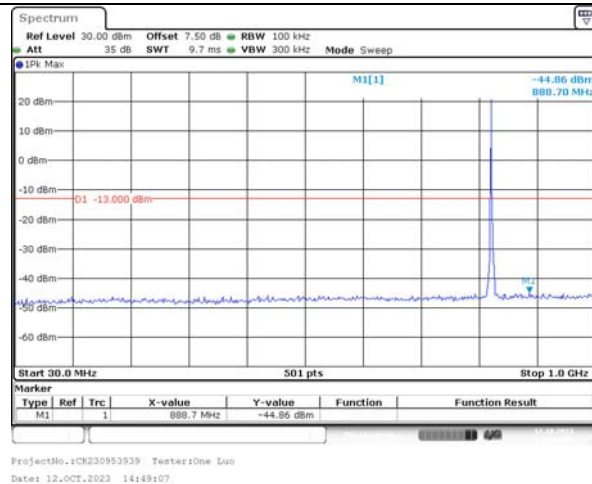


Spurious Emissions at Antenna Terminal

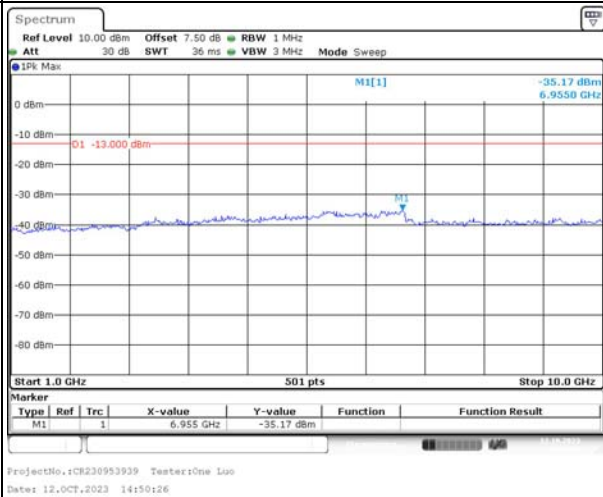
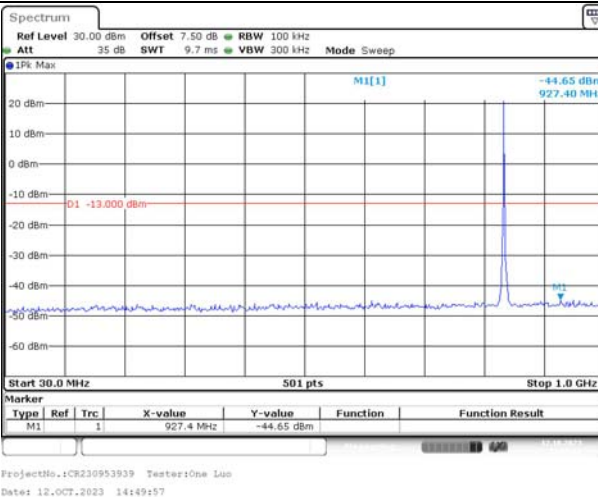
Channel

1.4MHz Bandwidth QPSK

Lowest



Middle



Highest

