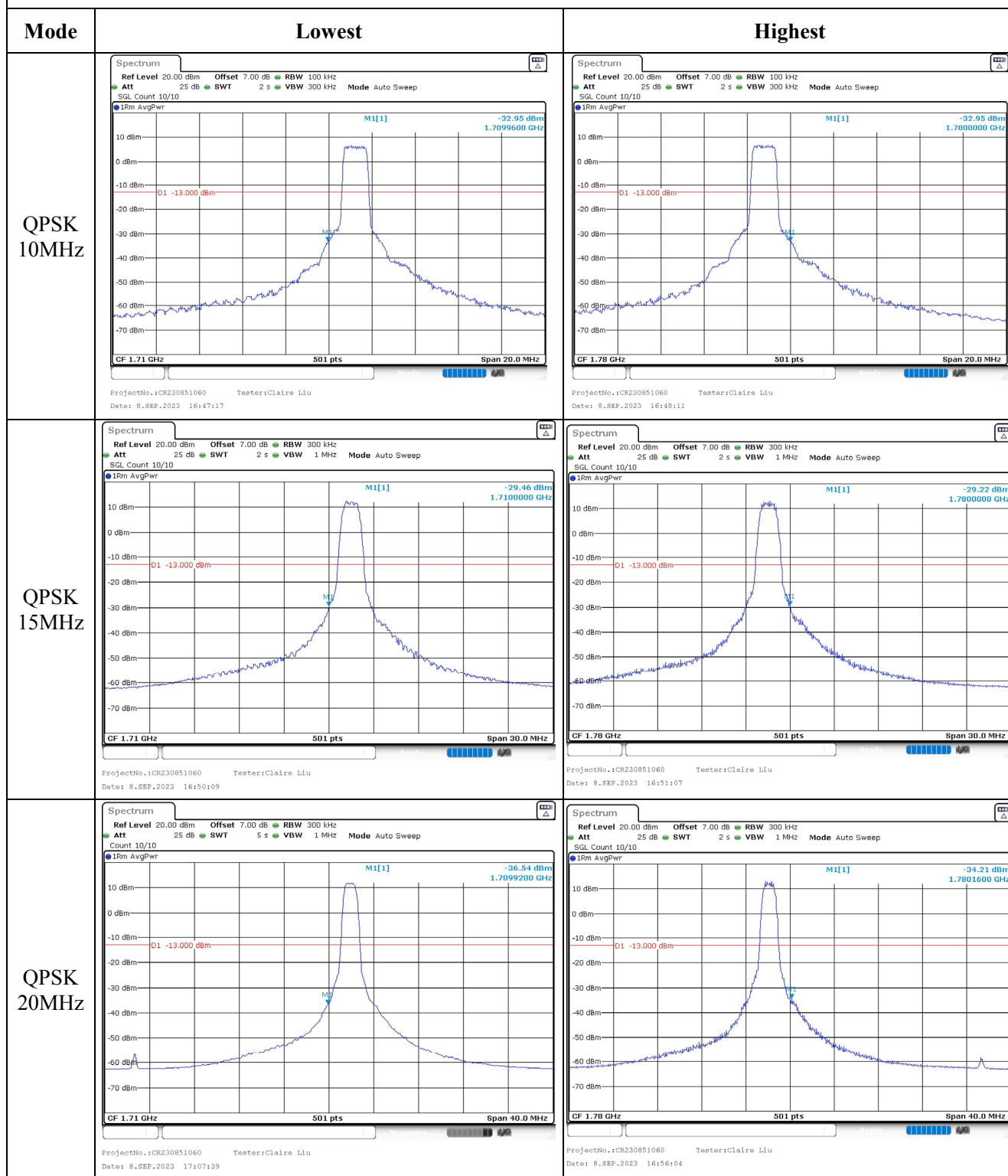


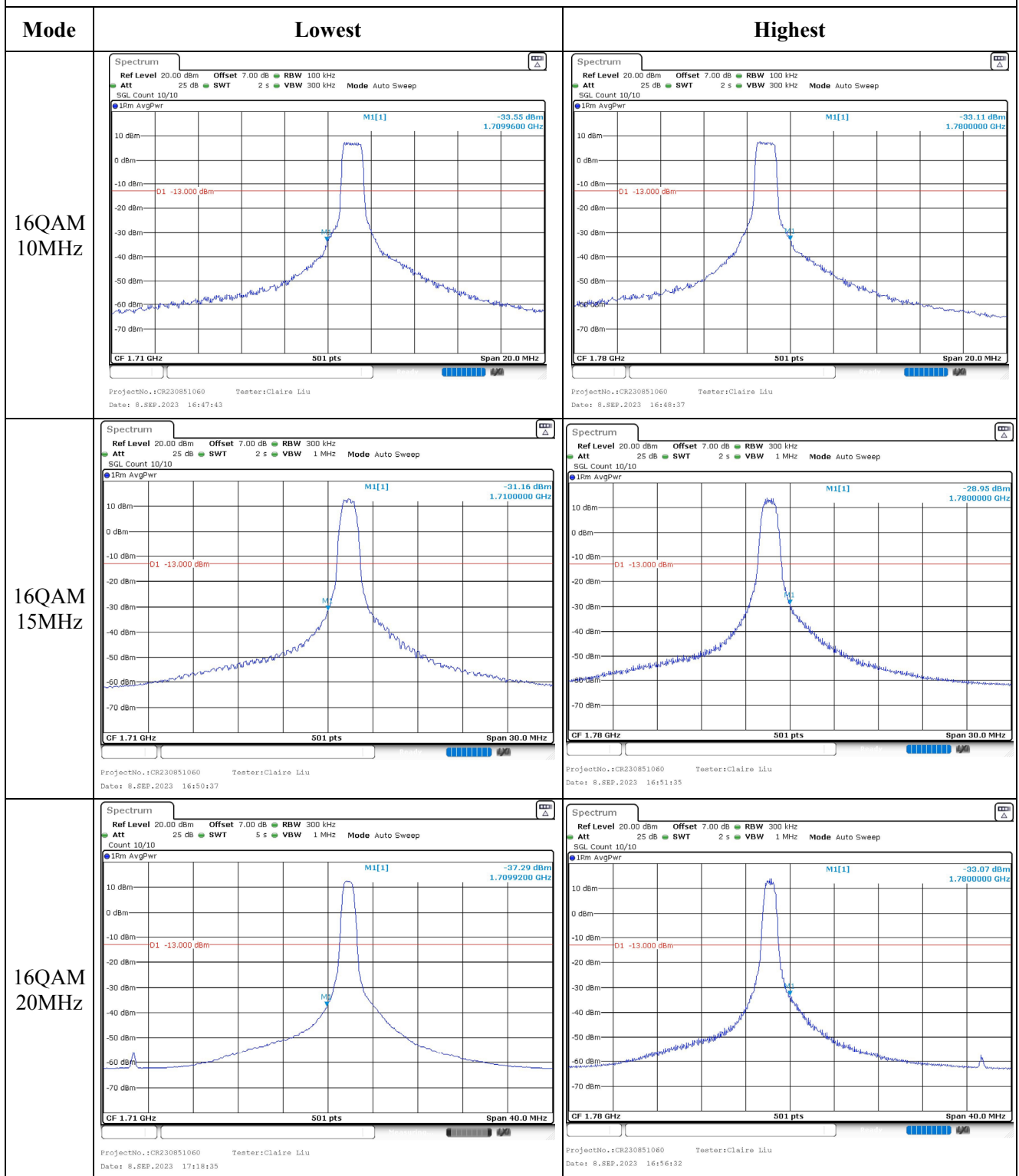
RB6 Out of band emission, Band Edge



RB5 Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 16:34:36	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 16:35:39
16QAM 3MHz	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 16:39:39	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 17:13:27
16QAM 5MHz	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 16:43:29	ProjectNo.:CR230851060 Tester: Claire Liu Date: 8.SEP.2023 16:44:22

RB5 Out of band emission, Band Edge



4.9 Antenna Port Test Data and Results for LTE Band 85

Serial Number:	2AQ1-8	Test Date:	2023/9/8~2023/11/17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~26.3	Relative Humidity: (%)	52~56	ATM Pressure: (kPa)	100.2~101
----------------------	-----------	------------------------------	-------	------------------------	-----------

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101590	2022/11/25	2023/11/24
YINSAIGE	Coaxial Cable	SS402	SJ0100002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	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	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	700.5	707	713.5
10MHz	703.0	707.0	711.0

Test Data:**FCC§2.1046;§ 27.50(c) (9)****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		
5MHz QPSK	RB1#0	21.95	22.09	22.04	23.98	44.77
	RB1#3	21.88	21.92	21.86		
	RB1#5	21.97	21.99	21.84		
	RB3#0	21.05	21.09	20.97		
	RB3#3	20.91	20.94	20.94		
	RB6#0	20.99	21.11	21.02		
5MHz 16QAM	RB1#0	21.82	21.94	21.87	23.83	44.77
	RB1#3	21.67	21.79	21.73		
	RB1#5	21.66	21.77	21.62		
	RB3#0	20.85	20.97	20.98		
	RB3#3	20.8	20.93	21		
	RB5#0	20.06	20.09	19.81		
10MHz QPSK	RB1#1	21.79	22.05	22.09	23.98	44.77
	RB1#4	21.59	21.83	21.92		
	RB1#6	21.72	21.85	21.93		
	RB3#1	21.87	21.81	21.92		
	RB3#4	21.92	21.88	21.8		
	RB6#1	21.05	21.05	21.02		
10MHz 16QAM	RB1#1	21.82	21.8	22	23.95	44.77
	RB1#4	21.74	21.73	21.69		
	RB1#6	21.7	21.63	21.67		
	RB3#1	21.74	21.8	22.06		
	RB3#4	21.73	21.77	21.82		
	RB5#1	20.86	20.93	20.92		

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#1	11.51	11.57	11.39	13
	RB6#1	11.77	11.71	11.65	13
10MHz 16QAM	RB1#1	12.29	12.29	12.17	13
	RB5#1	12.29	12.49	12.23	13
Result:					Pass

FCC §2.1049, §27.53: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	1.118	1.118	1.098	1.32	1.32	1.3
5MHz 16QAM	0.958	0.938	0.938	1.16	1.16	1.16
10MHz QPSK	1.118	1.118	1.118	1.32	1.32	1.32
10MHz 16QAM	0.958	0.958	0.958	1.16	1.16	1.12

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

FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal

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

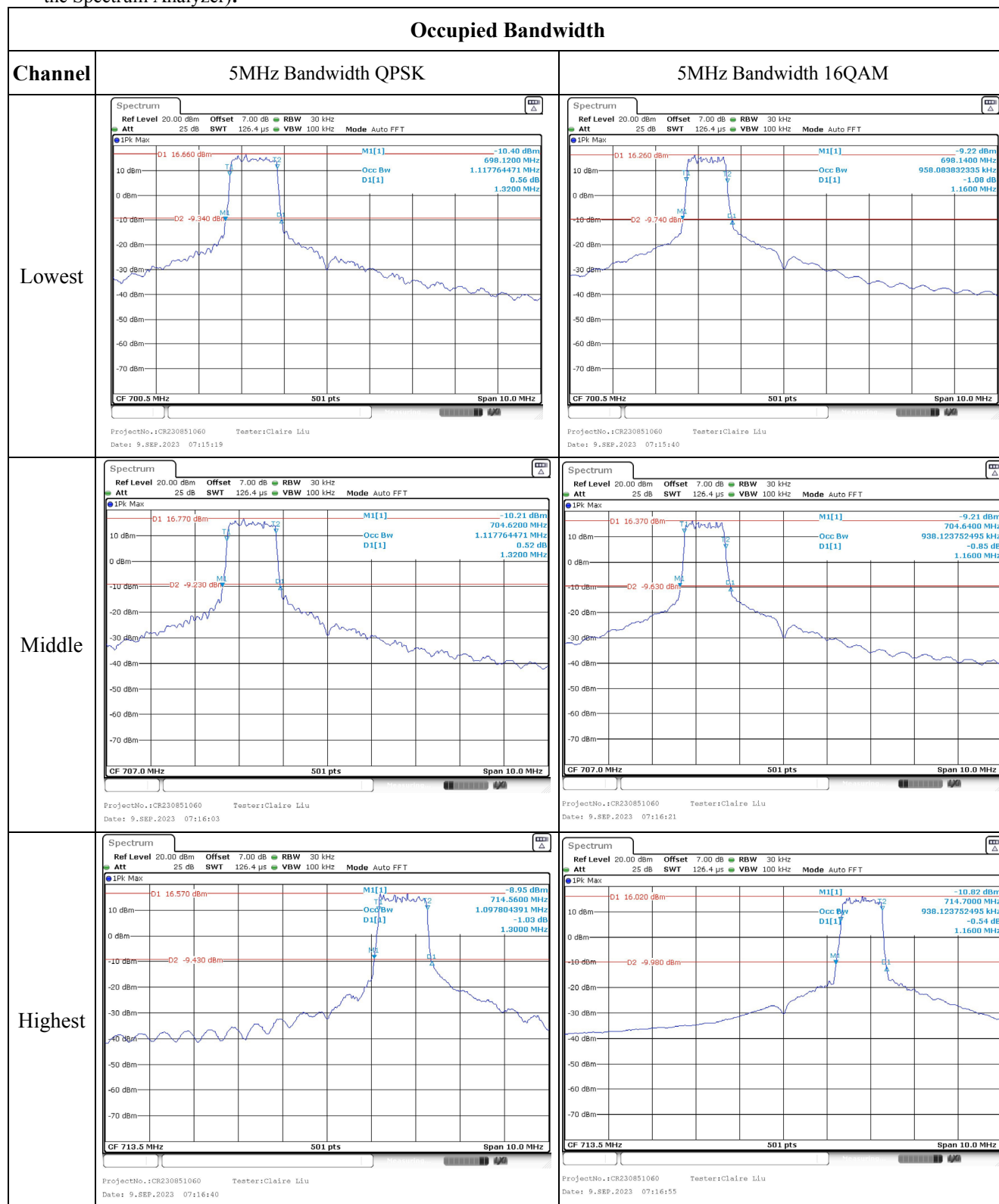
FCC §2.1051, §27.53:Out of band emission, Band Edge

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

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	10M 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	12	698.131	698	715.883	716
	-20	12	698.192	698	715.84	716
	-10	12	698.182	698	715.926	716
	0	12	698.253	698	715.873	716
	10	12	698.298	698	715.948	716
	20	12	698.12	698	715.86	716
	30	12	698.138	698	715.927	716
	40	12	698.143	698	715.898	716
	50	12	698.177	698	715.766	716
Frequency Stability vs. Voltage	20	9	698.209	698	715.839	716
	20	14	698.258	698	715.812	716
					Result:	Pass

Test Mode:	10M 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	12	698.193	698	715.753	716
	-20	12	698.21	698	715.671	716
	-10	12	698.274	698	715.595	716
	0	12	698.418	698	715.626	716
	10	12	698.457	698	715.56	716
	20	12	698.14	698	715.86	716
	30	12	698.173	698	715.887	716
	40	12	698.222	698	715.737	716
	50	12	698.321	698	715.601	716
Frequency Stability vs. Voltage	20	9	698.417	698	715.599	716
	20	14	698.513	698	715.623	716
					Result:	Pass

Test Plots(Note: The 7dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):



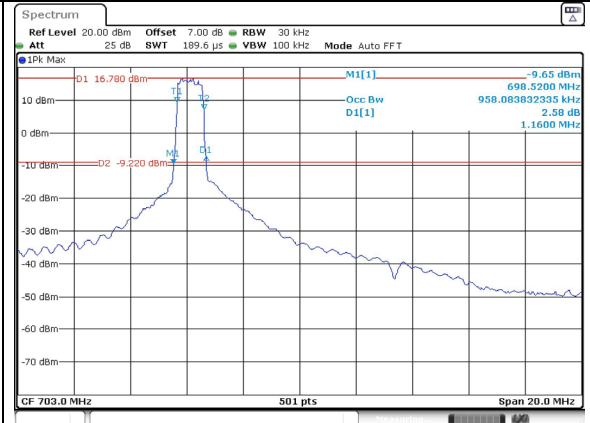
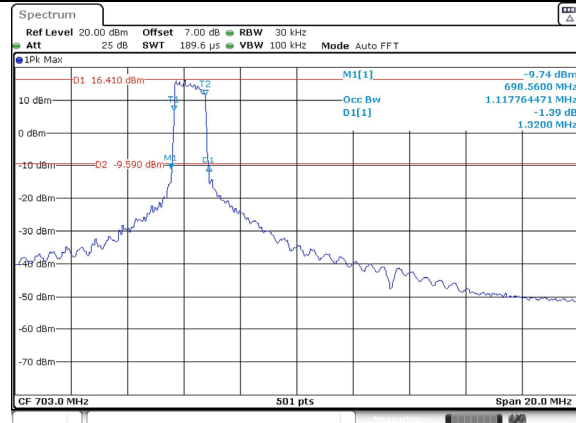
Occupied Bandwidth

Channel

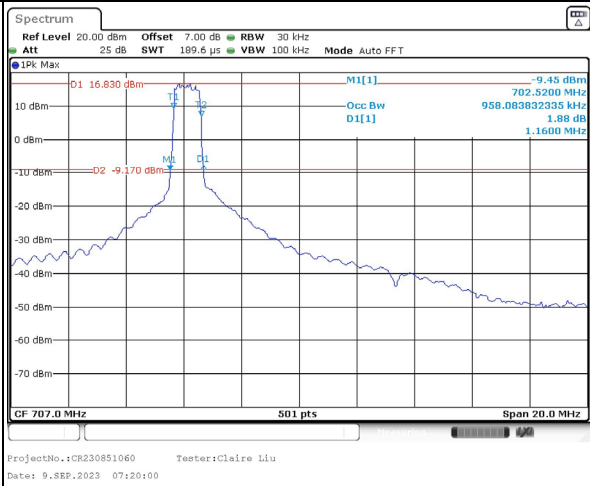
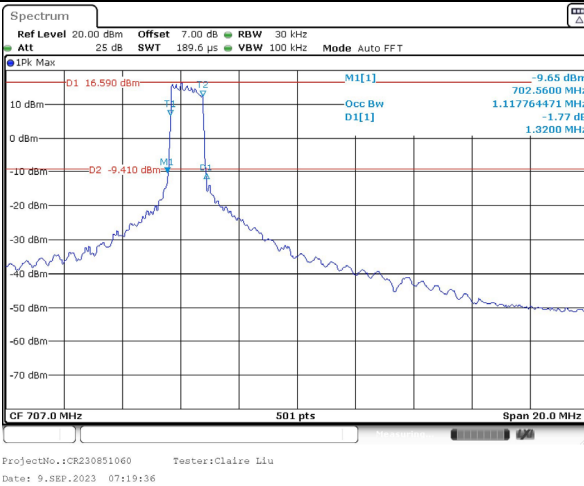
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

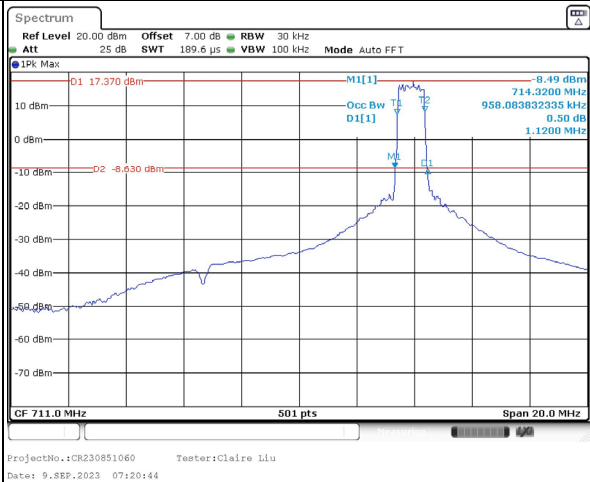
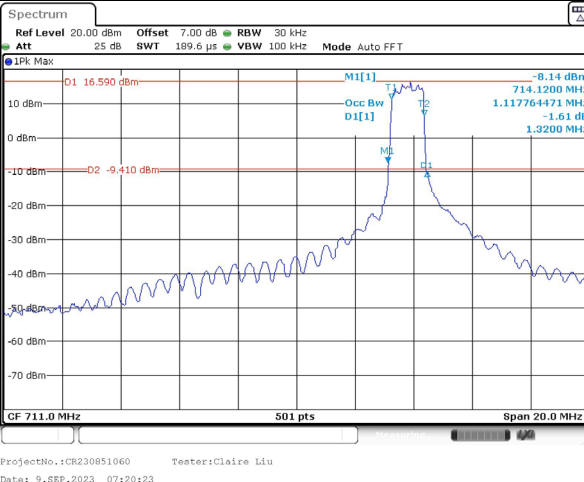
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

