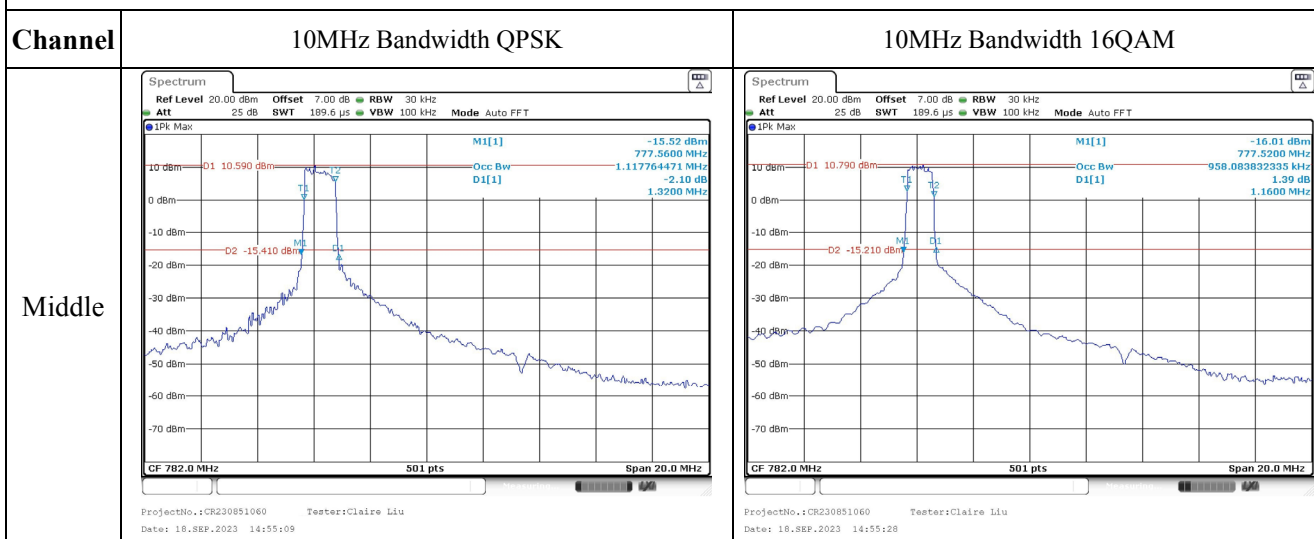


Occupied Bandwidth

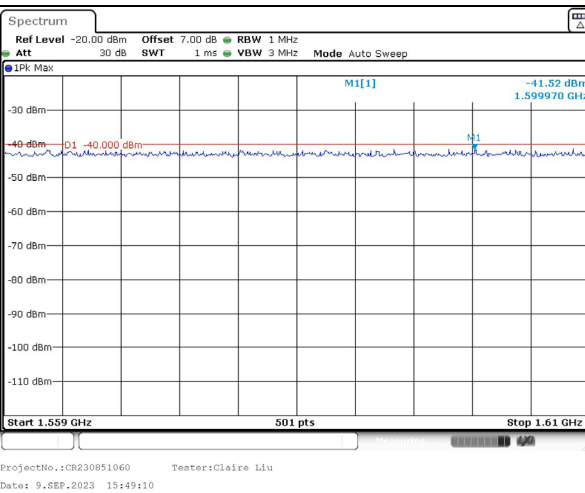
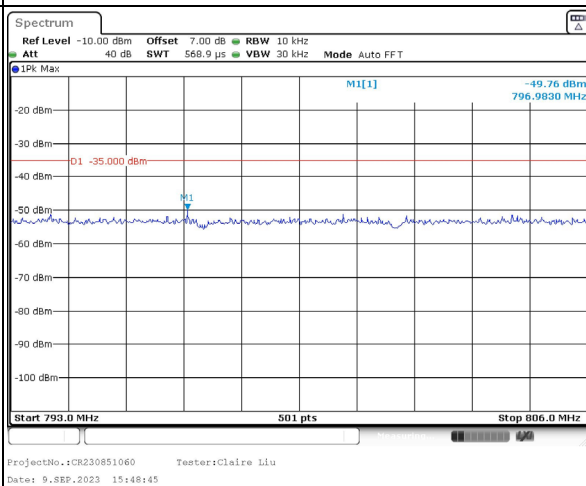
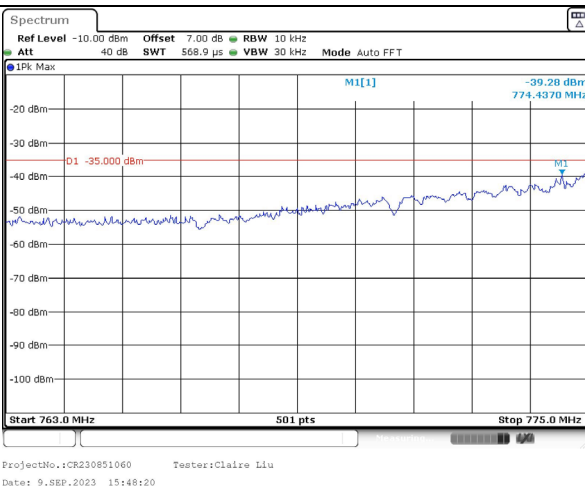
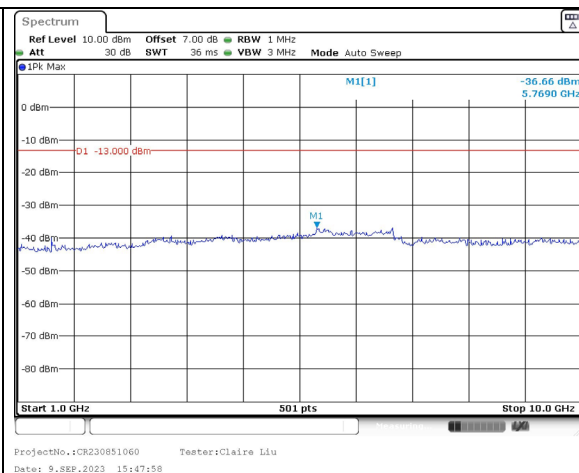
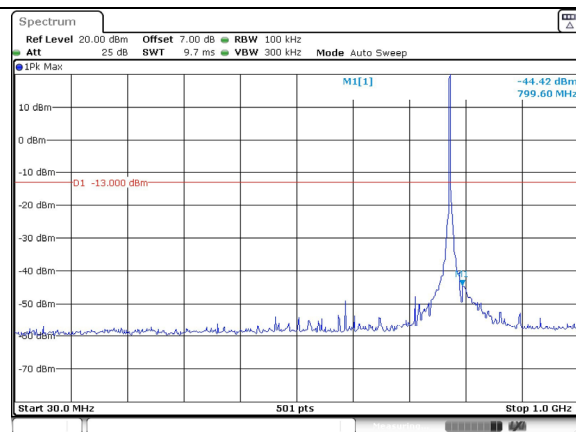


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Lowest

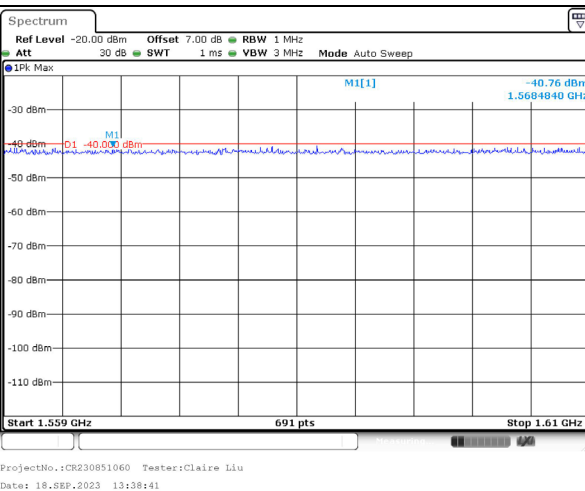
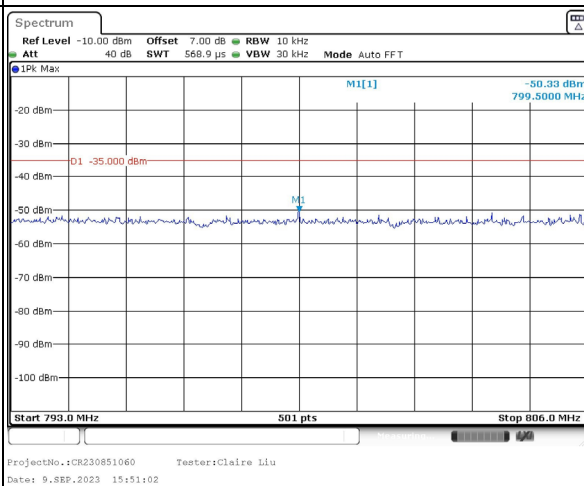
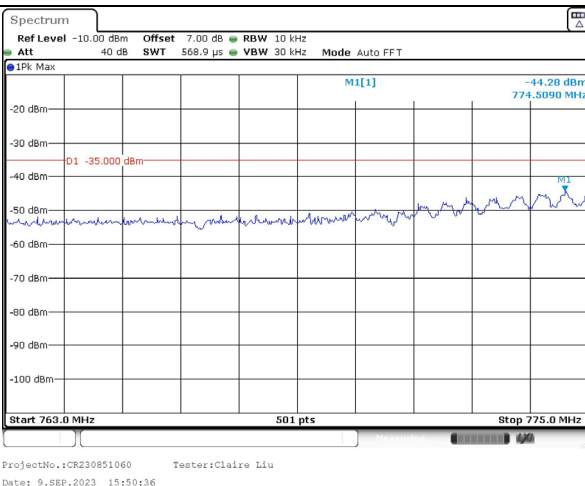
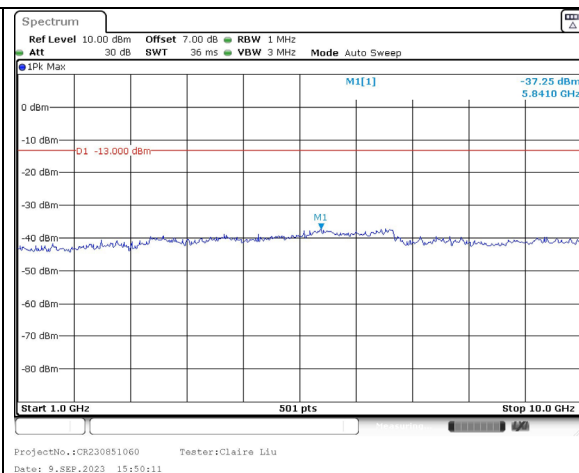
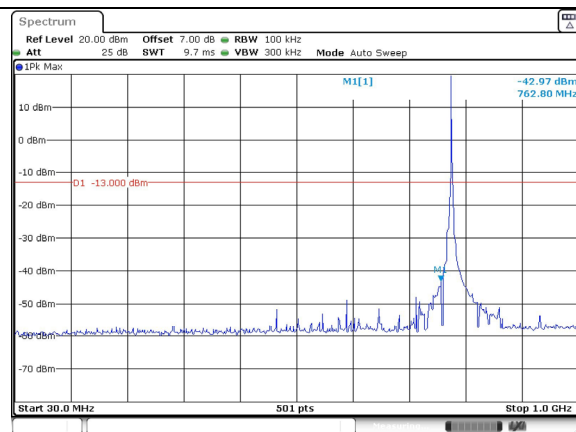


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Middle

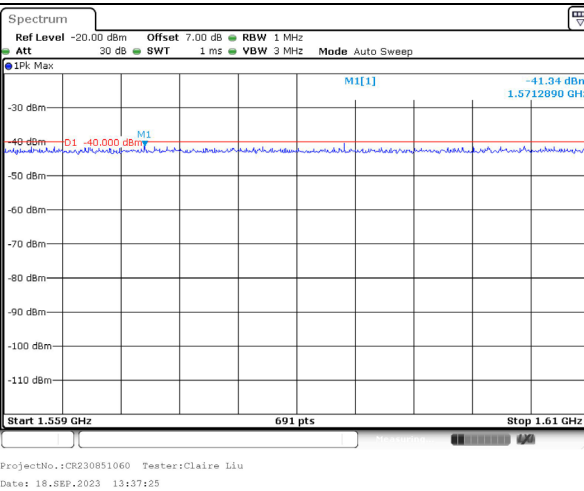
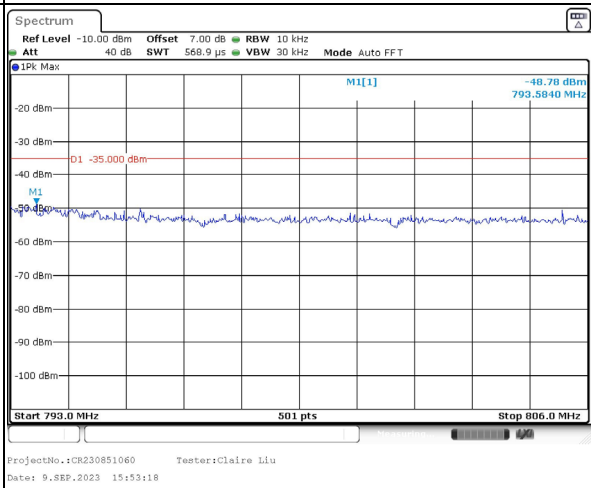
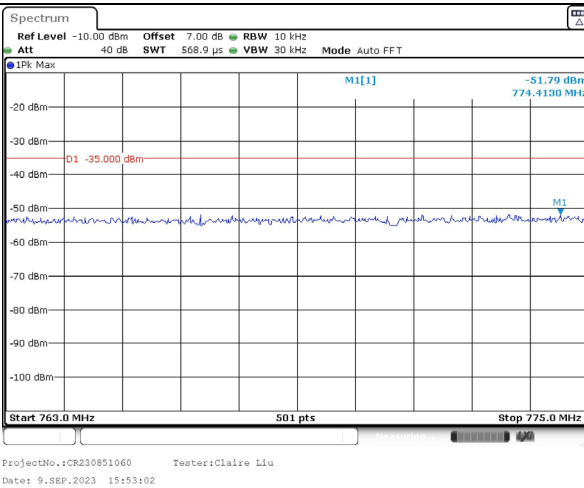
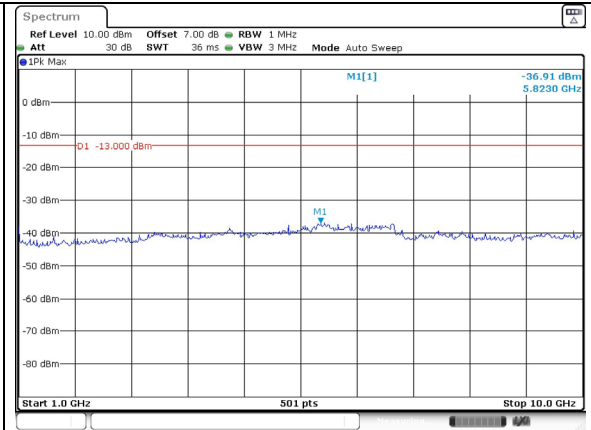
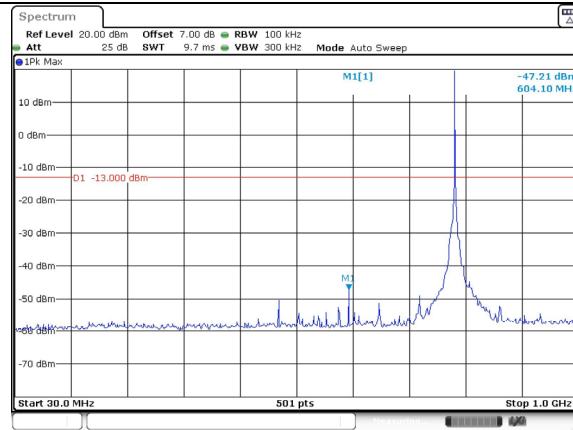


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Highest

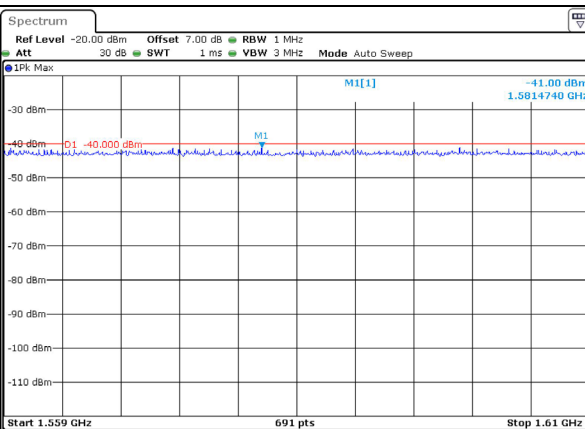
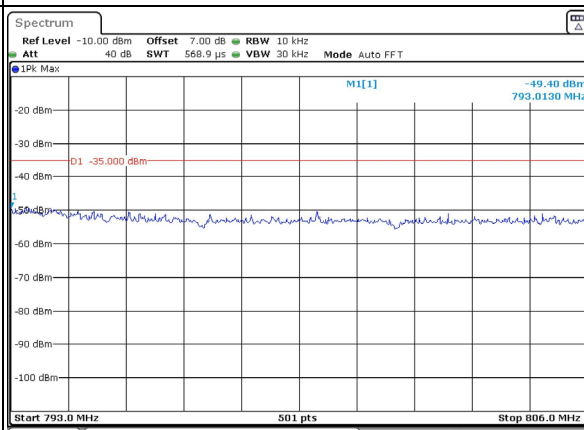
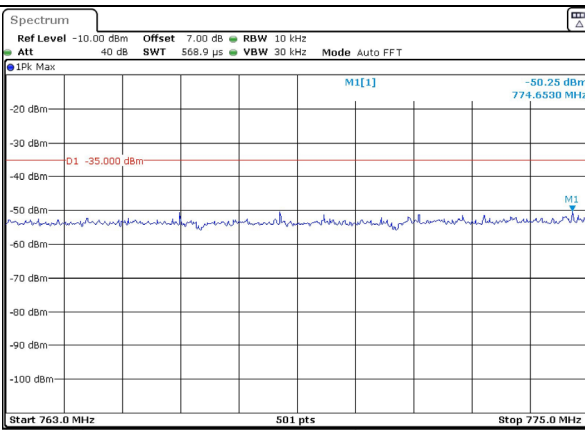
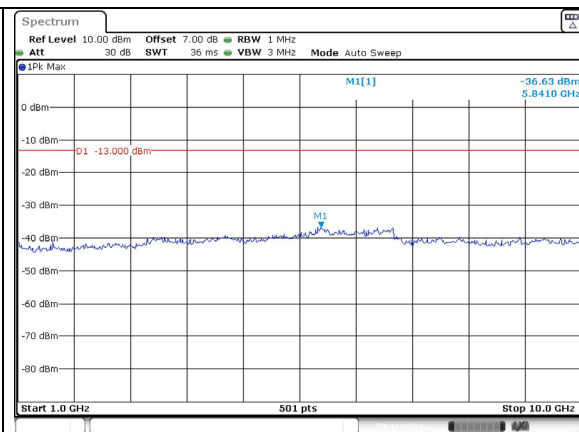
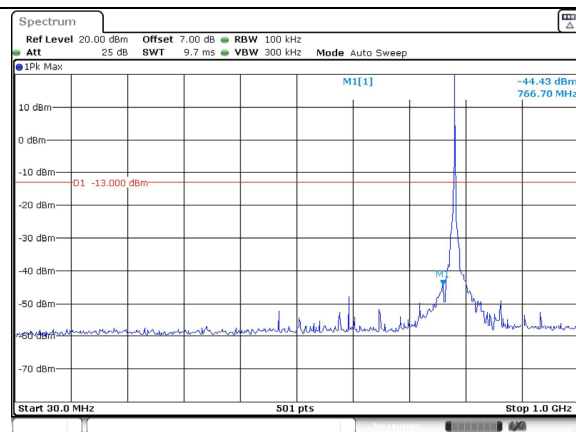


Spurious Emissions at Antenna Terminal

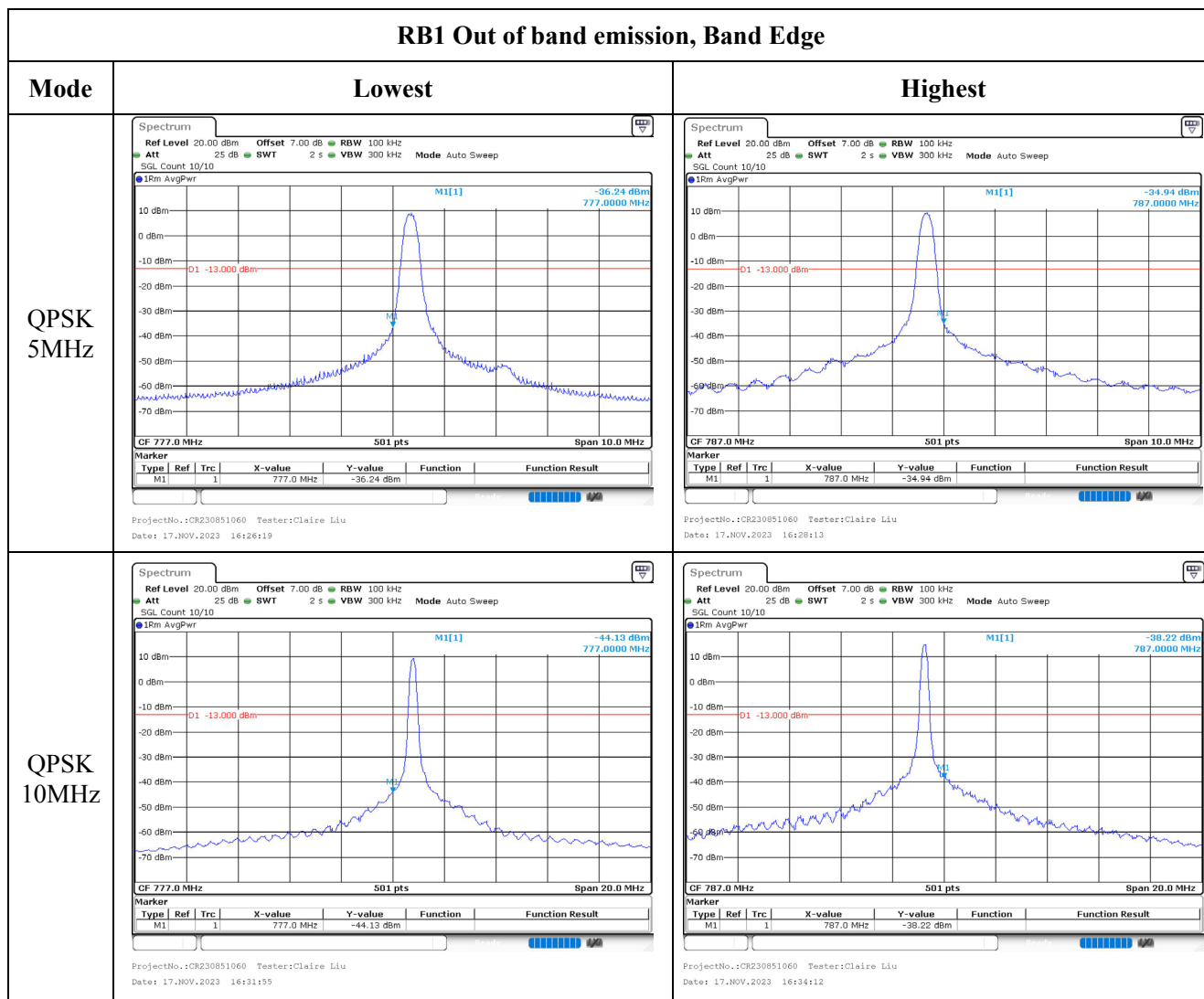
Channel

10MHz Bandwidth QPSK

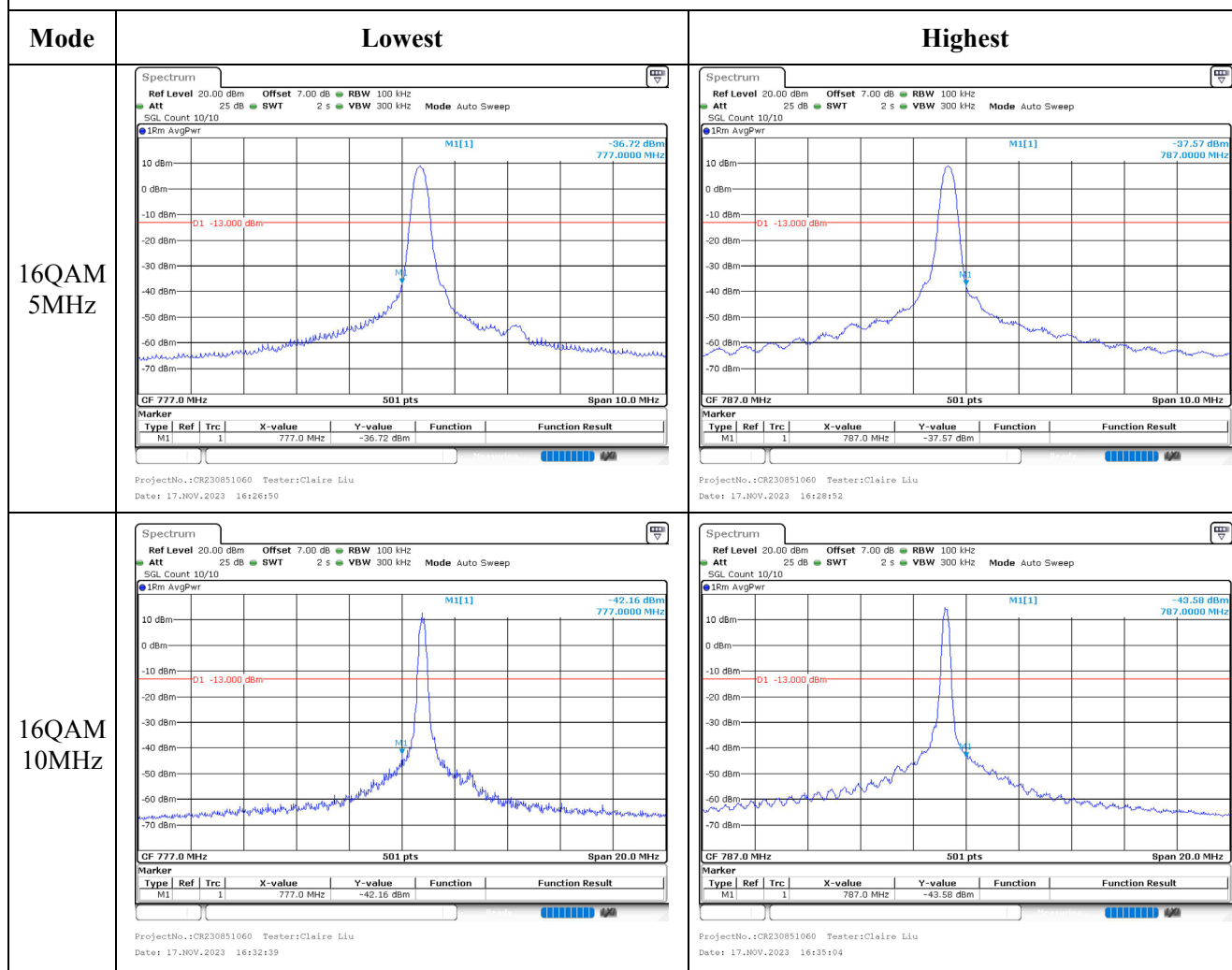
Middle



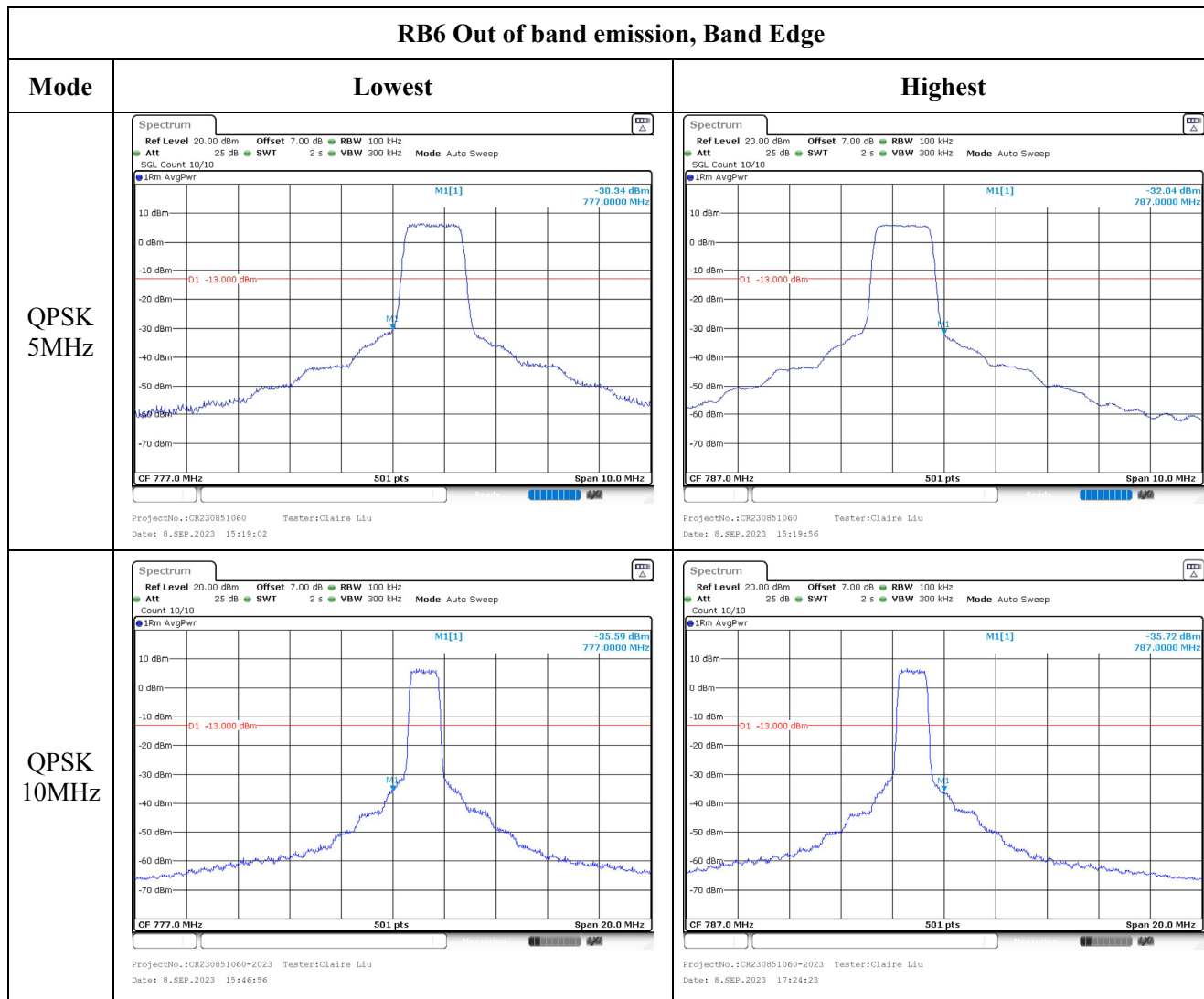
RB1 Out of band emission, Band Edge



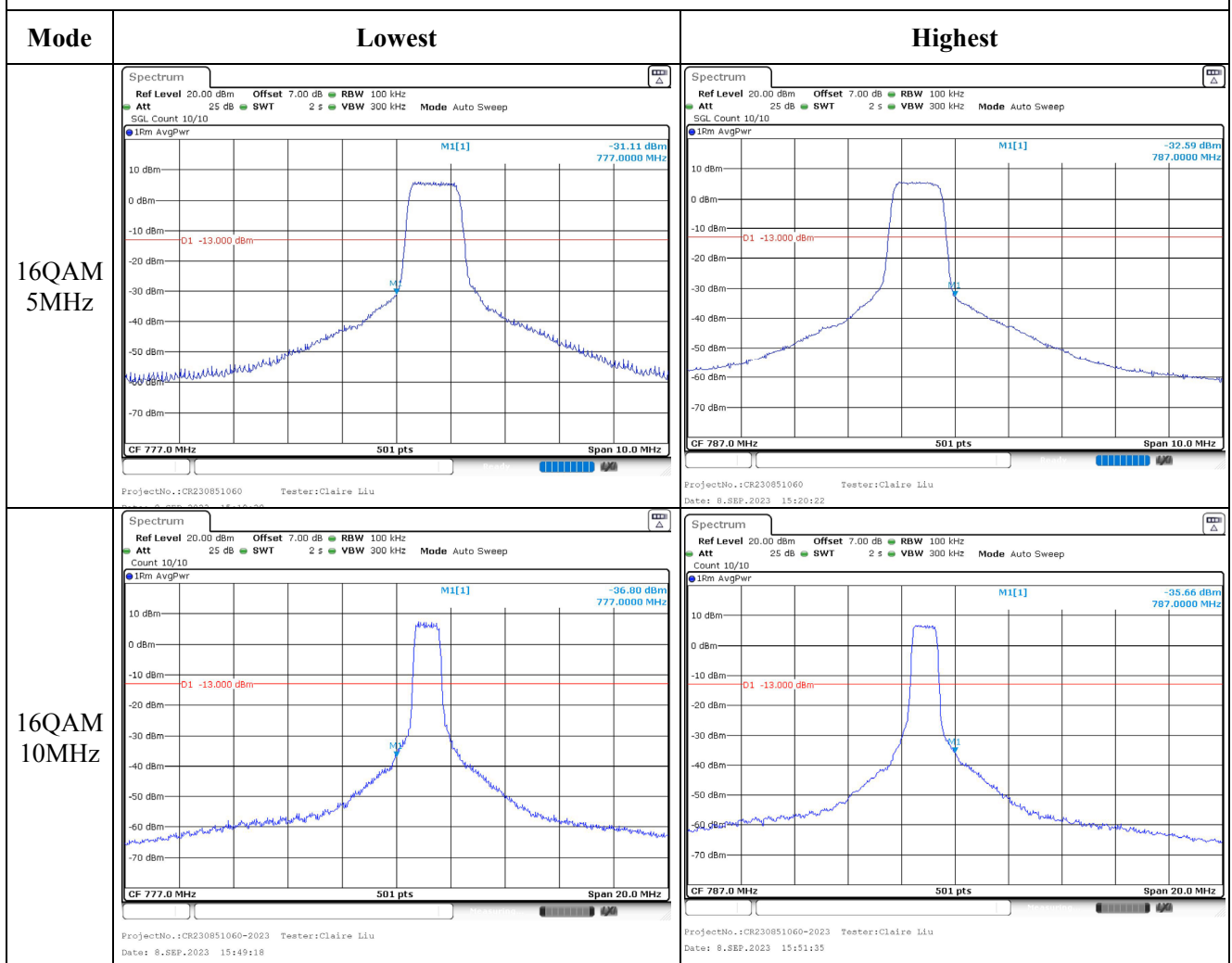
RB1 Out of band emission, Band Edge



RB6 Out of band emission, Band Edge



RB5 Out of band emission, Band Edge



4.6 Antenna Port Test Data and Results for LTE Band 25

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
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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)
1.4MHz	1850.7	1882.5	1914.3
3MHz	1851.5	1882.5	1913.5
5MHz	1852.5	1882.5	1912.5
10MHz	1855	1882.5	1910
15MHz	1857.5	1882.5	1907.5
20MHz	1860	1882.5	1905

Test Data:**FCC§2.1046;§ 24.232****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	21.62	21.69	21.61	25.58	33
	RB1#3	21.35	21.53	21.55		
	RB1#5	21.34	21.46	21.46		
	RB3#0	20.44	20.49	20.53		
	RB3#3	20.25	20.3	20.35		
	RB6#0	19.3	19.32	19.38		
1.4MHz 16QAM	RB1#0	20.44	20.61	20.61	24.5	33
	RB1#3	20.36	20.54	20.44		
	RB1#5	20.28	20.37	20.36		
	RB3#0	19.17	19.42	19.17		
	RB3#3	18.98	19.27	19.08		
	RB5#0	19.1	19.28	19.32		
3MHz QPSK	RB1#1	21.65	21.65	21.54	25.54	33
	RB1#4	21.32	21.5	21.4		
	RB1#6	21.33	21.4	21.31		
	RB3#1	20.42	20.53	20.57		
	RB3#4	20.25	20.36	20.4		
	RB6#1	19.22	19.29	19.42		
3MHz 16QAM	RB1#1	20.47	20.65	20.89	24.78	33
	RB1#4	20.4	20.49	20.83		
	RB1#6	20.32	20.4	20.73		
	RB3#1	19.08	19.15	19.46		
	RB3#4	18.93	19	19.23		
	RB5#1	19.15	19.24	19.3		
5MHz QPSK	RB1#0	21.42	21.63	21.67	25.56	33
	RB1#3	21.29	21.59	21.54		
	RB1#5	21.28	21.38	21.46		
	RB3#0	20.36	20.49	20.6		
	RB3#3	20.18	20.31	20.43		
	RB6#0	20.36	20.38	20.51		
5MHz 16QAM	RB1#0	21.82	21.81	21.98	25.87	33
	RB1#3	21.48	21.49	21.88		
	RB1#5	21.42	21.59	21.71		
	RB3#0	20.54	20.62	20.66		
	RB3#3	20.4	20.53	20.62		
	RB5#0	19.4	19.43	19.68		
10MHz QPSK	RB1#1	21.32	21.5	21.52	25.41	33
	RB1#4	21.07	21.34	21.47		
	RB1#6	21.19	21.26	21.47		

	RB3#1	21.12	21.21	21.46		
	RB3#4	21.07	21.18	21.34		
	RB6#1	19.83	20.29	20.27		
10MHz 16QAM	RB1#1	21.43	21.66	21.85	25.74	33
	RB1#4	21.35	21.49	21.52		
	RB1#6	21.33	21.29	21.63		
	RB3#1	21.45	21.5	21.56		
	RB3#4	21.29	21.35	21.43		
	RB5#1	20.19	20.31	20.65		
15MHz QPSK	RB1#1	21.34	21.52	21.58	25.47	33
	RB1#4	21.25	21.43	21.51		
	RB1#6	21.11	21.21	21.33		
	RB3#1	21.12	21.32	21.55		
	RB3#4	21.14	21.25	21.38		
	RB6#1	21.19	21.31	21.44		
15MHz 16QAM	RB1#1	21.67	21.63	21.84	25.73	33
	RB1#4	21.25	21.42	21.76		
	RB1#6	21.44	21.48	21.57		
	RB3#1	21.42	21.5	21.5		
	RB3#4	21.35	21.36	21.48		
	RB5#1	21.32	21.44	21.64		
20MHz QPSK	RB1#2	21.43	21.66	21.8	25.69	33
	RB1#5	21.33	21.52	21.57		
	RB1#7	21.31	21.62	21.59		
	RB3#2	21.41	21.52	21.69		
	RB3#5	21.25	21.36	21.52		
	RB6#2	21.42	21.43	21.5		
20MHz 16QAM	RB1#2	21.85	21.87	22.03	25.92	33
	RB1#5	21.59	21.61	21.9		
	RB1#7	21.44	21.53	21.74		
	RB3#2	21.61	21.61	21.67		
	RB3#5	21.48	21.48	21.62		
	RB5#2	21.42	21.54	21.87		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + G_T(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#2	11.2	11.1	10.87	13
	RB6#2	11.33	11.45	11.19	13
20MHz 16QAM	RB1#2	11.59	11.45	11.36	13
	RB5#2	11.88	11.68	11.13	13
				Result:	Pass

FCC §2.1049, §24.238: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	1.096	1.102	1.09	1.296	1.308	1.272
1.4MHz 16QAM	0.934	0.934	0.934	1.146	1.14	1.194
3MHz QPSK	1.114	1.102	1.09	1.296	1.308	1.296
3MHz 16QAM	0.934	0.934	0.934	1.14	1.14	1.2
5MHz QPSK	1.118	1.118	1.098	1.32	1.34	1.3
5MHz 16QAM	0.958	0.938	0.958	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	1.16
15MHz QPSK	1.138	1.38	1.138	1.38	1.38	1.38
15MHz 16QAM	0.958	0.958	0.958	1.2	1.32	1.32
20MHz QPSK	1.198	1.198	1.118	1.36	1.36	1.36
20MHz 16QAM	1.038	1.038	1.038	1.28	1.28	1.2

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

FCC §2.1051, § 24.238 (a):Spurious Emissions at Antenna Terminal

Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.
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FCC §2.1051, § 24.238 (a):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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FCC §2.1055, §24.235: 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	12	1850.069	1850.000	1914.876	1915.000
	-20	12	1850.176	1850.000	1914.88	1915.000
	-10	12	1850.25	1850.000	1914.855	1915.000
	0	12	1850.28	1850.000	1914.868	1915.000
	10	12	1850.276	1850.000	1914.866	1915.000
	20	12	1850.052	1850.000	1914.93	1915.000
	30	12	1850.144	1850.000	1914.918	1915.000
	40	12	1850.179	1850.000	1914.861	1915.000
	50	12	1850.242	1850.000	1914.885	1915.000
Frequency Stability vs. Voltage	20	9	1850.268	1850.000	1914.873	1915.000
	20	14	1850.28	1850.000	1914.902	1915.000
					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	12	1850.004	1850.000	1914.943	1915.000
	-20	12	1850.144	1850.000	1914.895	1915.000
	-10	12	1850.104	1850.000	1914.915	1915.000
	0	12	1850.226	1850.000	1914.956	1915.000
	10	12	1850.246	1850.000	1914.921	1915.000
	20	12	1850.004	1850.000	1914.96	1915.000
	30	12	1850.074	1850.000	1914.92	1915.000
	40	12	1850.099	1850.000	1914.932	1915.000
	50	12	1850.131	1850.000	1914.933	1915.000
Frequency Stability vs. Voltage	20	9	1850.205	1850.000	1914.912	1915.000
	20	14	1850.283	1850.000	1914.908	1915.000
					Result:	Pass