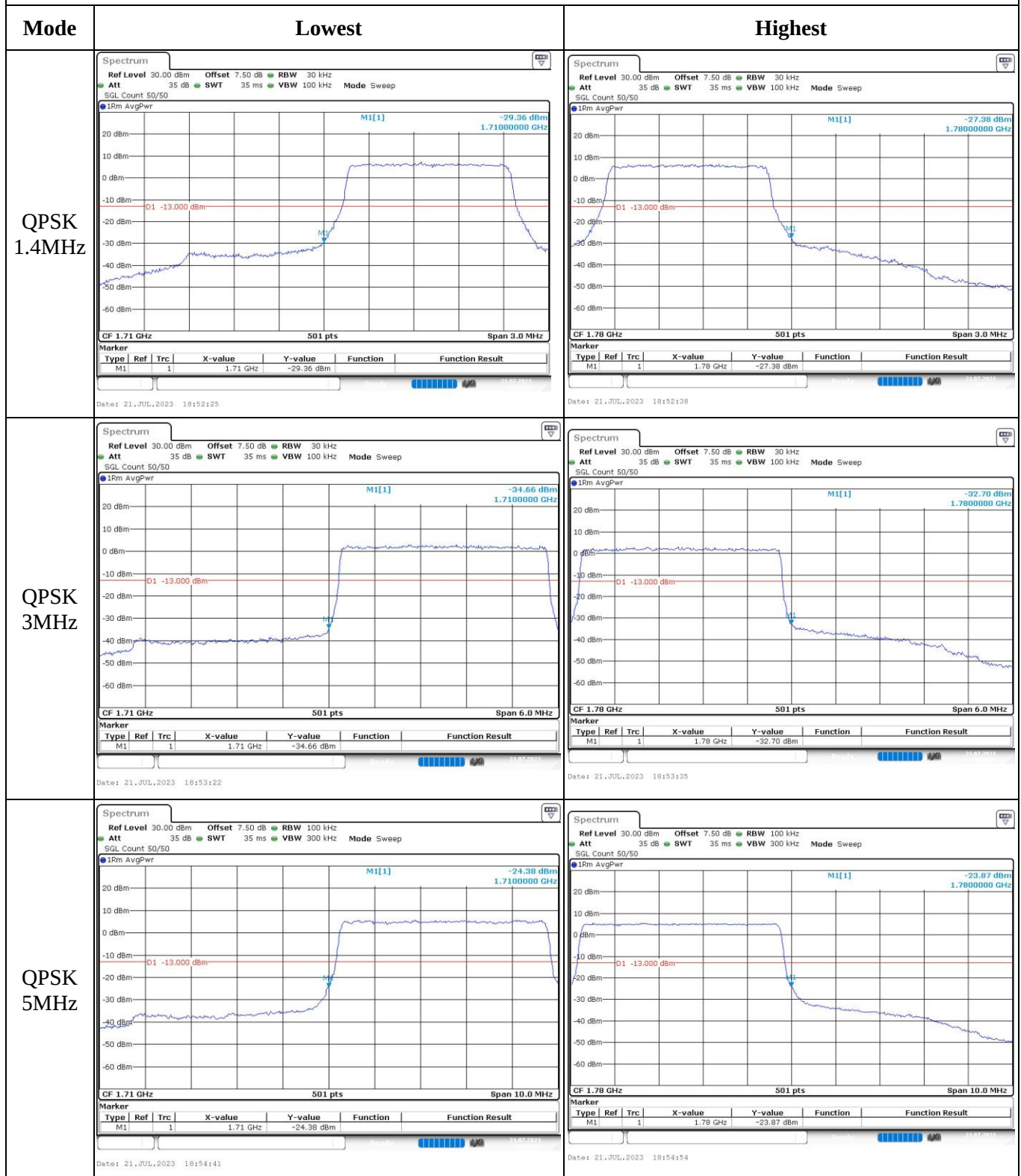
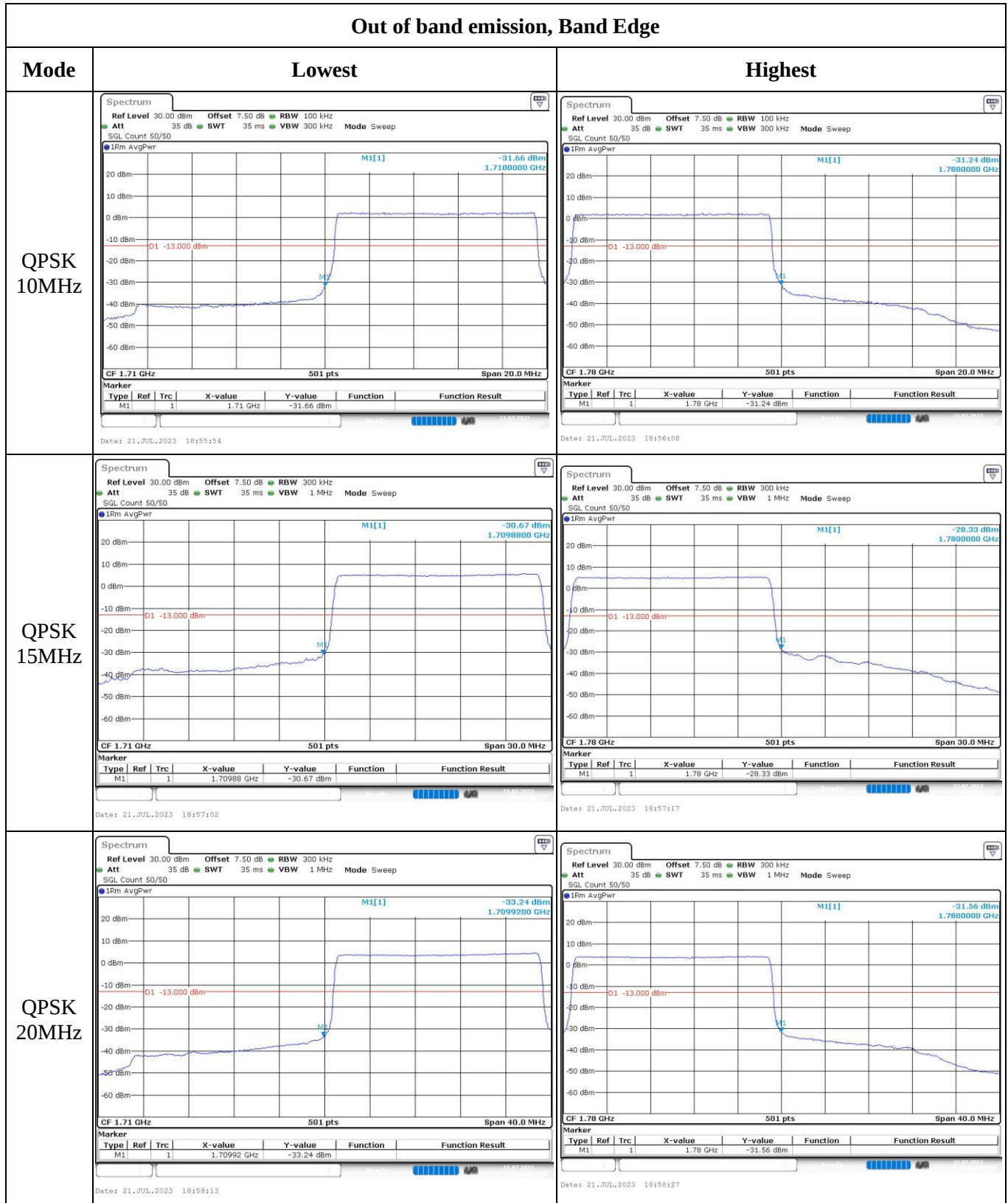


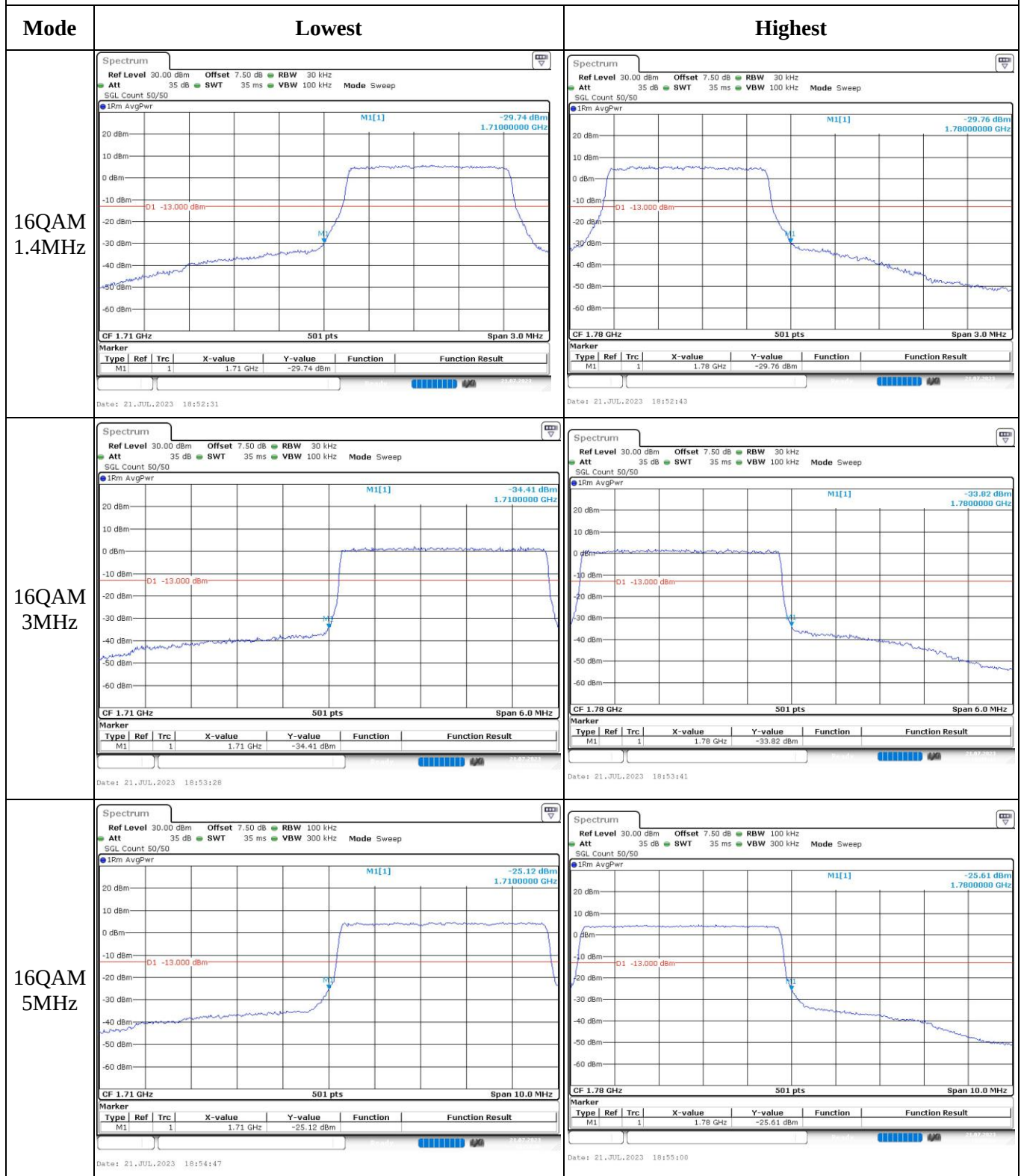
Out of band emission, Band Edge



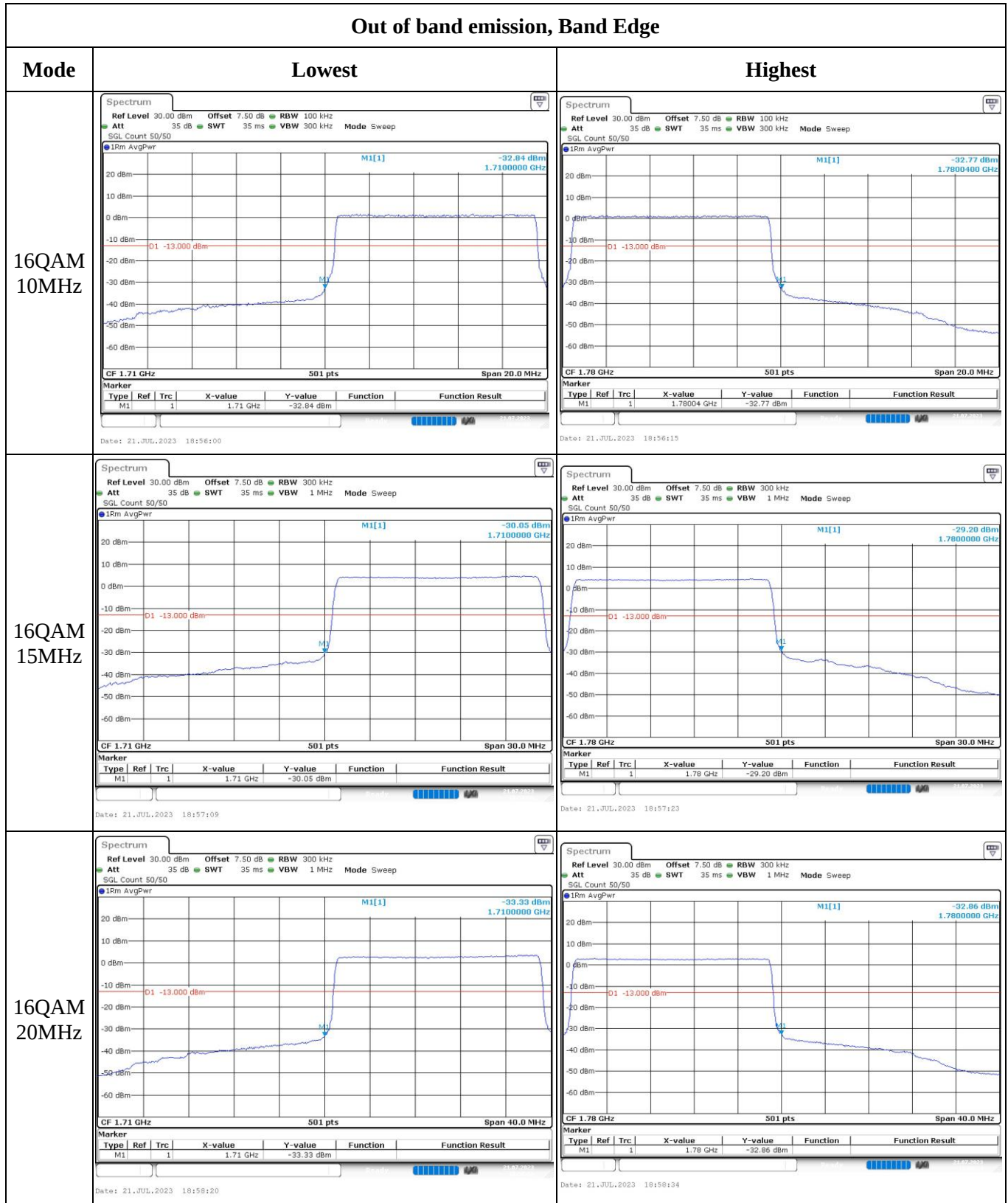
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.17 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	287E_1	Test Date:	2023/7/17~2023/7/28
Test Site:	RF	Test Mode:	Transmitting
Tester:	One Luo	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.8~27.2	Relative Humidity: (%)	46~55	ATM Pressure: (kPa)	99.1~100.3
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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	2023/7/15	2024/7/14
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	149218	2023/7/15	2024/7/14
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
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	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	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

Test Data:**FCC §2.1046; § 27.50(c) (10)****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	24.53	23.91	23.85	18.45	34.77
	RB1#13	24.6	24.02	24		
	RB1#24	24.46	23.89	23.87		
	RB15#0	23.62	23.05	23		
	RB15#10	23.63	23.07	23.01		
	RB25#0	23.54	23.02	22.98		
5MHz 16QAM	RB1#0	23.68	22.85	23.1	17.66	34.77
	RB1#13	23.81	22.95	23.27		
	RB1#24	23.69	22.88	23.14		
	RB15#0	22.45	22.04	21.93		
	RB15#10	22.48	22.07	21.94		
	RB25#0	22.49	22.05	21.94		
10MHz QPSK	RB1#0	24.56	23.94	23.91	18.49	34.77
	RB1#25	24.64	24.06	24.07		
	RB1#49	24.48	23.99	23.97		
	RB25#0	23.57	23.05	23.06		
	RB25#25	23.68	23.08	23.03		
	RB50#0	23.59	23.07	23.03		
10MHz 16QAM	RB1#0	23.51	23.47	23.37	17.52	34.77
	RB1#25	23.64	23.67	23.57		
	RB1#49	23.46	23.51	23.46		
	RB25#0	22.6	22.08	22.08		
	RB25#25	22.7	22.09	22		
	RB50#0	22.59	22.03	22.01		
15MHz QPSK	RB1#0	24.46	24.12	23.83	18.36	34.77
	RB1#38	24.51	24.03	24.02		
	RB1#74	24.02	23.96	23.96		
	RB36#0	23.58	23.17	23.12		
	RB36#39	23.38	23.14	23.14		
	RB75#0	23.47	23.16	23.1		
15MHz 16QAM	RB1#0	23.7	23.64	23.29	17.71	34.77
	RB1#38	23.86	23.62	23.48		
	RB1#74	23.4	23.48	23.45		
	RB36#0	22.48	22.12	22.05		
	RB36#39	22.29	22.07	22.05		
	RB75#0	22.39	22.08	22.05		
20MHz QPSK	RB1#0	24.26	24.07	23.66	18.48	34.77
	RB1#50	24.63	24.08	24.09		
	RB1#99	23.89	23.77	23.78		

20MHz 16QAM	RB50#0	23.34	23.07	22.93	17.63	34.77
	RB50#50	23.11	22.93	22.85		
	RB100#0	23.24	23.01	22.88		
	RB1#0	23.43	23.38	22.97		
	RB1#50	23.78	23.43	23.37		
	RB1#99	23.08	23.1	23.14		
	RB50#0	22.29	22.07	21.88		
	RB50#50	22.05	21.91	21.8		
	RB100#0	22.2	22.02	21.88		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15

Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)

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	4.26	4.75	5.01	13
	RB100#0	4.06	3.88	3.88	13
20MHz 16QAM	RB1#0	5.22	5.22	5.68	13
	RB100#0	5.65	5.59	5.57	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	4.511	4.531	4.531	5.22	5.18	5.26
5MHz 16QAM	4.531	4.511	4.511	5.22	5.18	5.16
10MHz QPSK	8.982	8.982	8.982	10.08	9.92	9.96
10MHz 16QAM	8.982	8.942	8.942	9.8	9.76	9.84
15MHz QPSK	13.533	13.593	13.533	15.24	15.3	15.3
15MHz 16QAM	13.533	13.593	13.533	15.12	15.12	15.12
20MHz QPSK	17.964	17.964	17.964	19.68	19.44	19.68
20MHz 16QAM	17.964	17.964	17.964	19.84	19.68	20.24

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.
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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.
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FCC §2.1055, §27.54: 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	3.78	663.173	663.00	696.925	698.00
	-20	3.78	663.186	663.00	696.908	698.00
	-10	3.78	663.124	663.00	696.986	698.00
	0	3.78	663.146	663.00	696.950	698.00
	10	3.78	663.191	663.00	696.909	698.00
	20	3.78	663.160	663.00	696.941	698.00
	30	3.78	663.200	663.00	696.941	698.00
	40	3.78	663.123	663.00	696.985	698.00
	50	3.78	663.171	663.00	696.917	698.00
Frequency Stability vs. Voltage	20	3.6	663.145	663.00	696.983	698.00
	20	4.4	663.148	663.00	696.903	698.00
					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	3.78	663.159	663.00	697.067	698.00
	-20	3.78	663.182	663.00	697.066	698.00
	-10	3.78	663.107	663.00	697.062	698.00
	0	3.78	663.124	663.00	697.052	698.00
	10	3.78	663.185	663.00	697.069	698.00
	20	3.78	663.160	663.00	697.022	698.00
	30	3.78	663.102	663.00	697.006	698.00
	40	3.78	663.173	663.00	697.017	698.00
	50	3.78	663.157	663.00	697.040	698.00
Frequency Stability vs. Voltage	20	3.6	663.106	663.00	697.090	698.00
	20	4.4	663.184	663.00	697.096	698.00
					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):

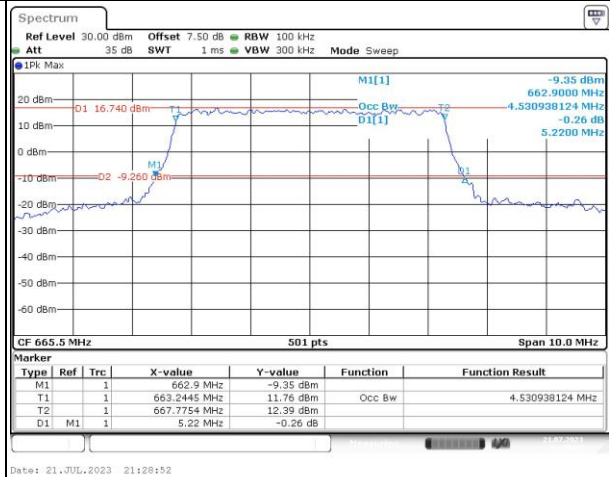
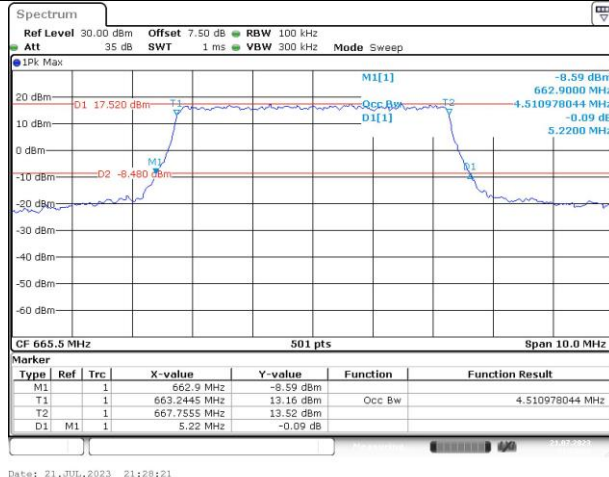
Occupied Bandwidth

Channel

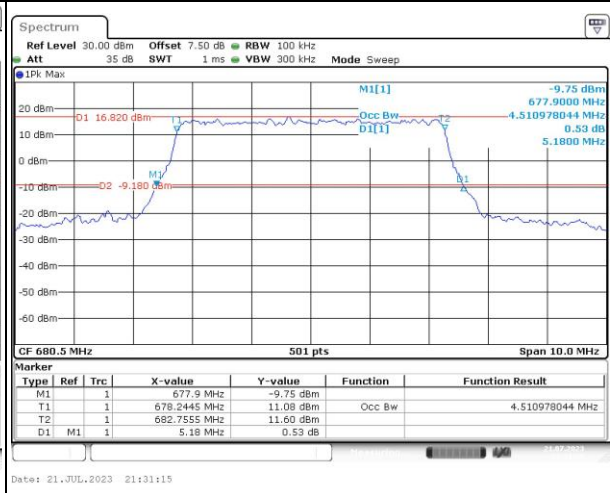
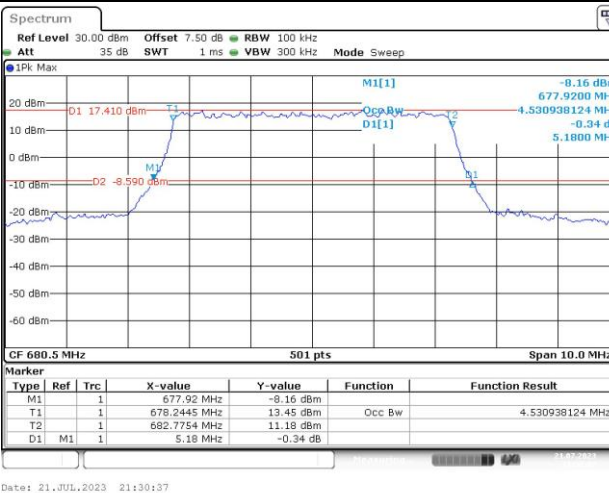
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

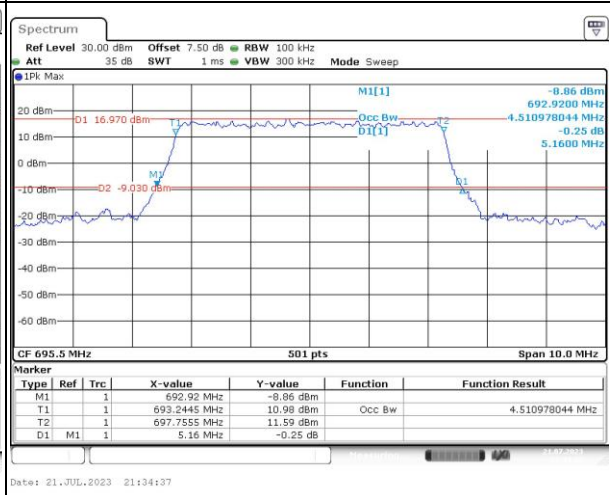
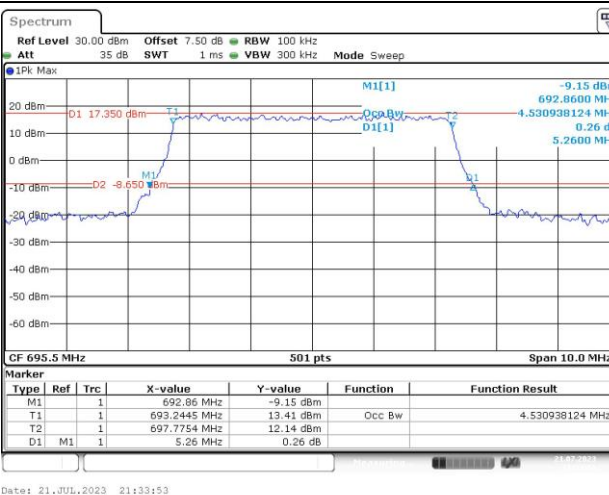
Lowest



Middle



Highest



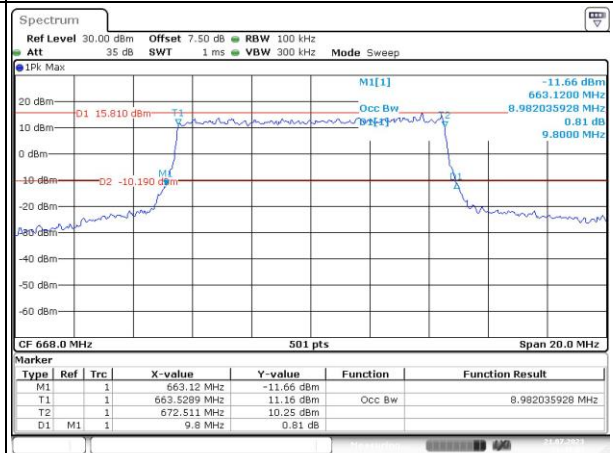
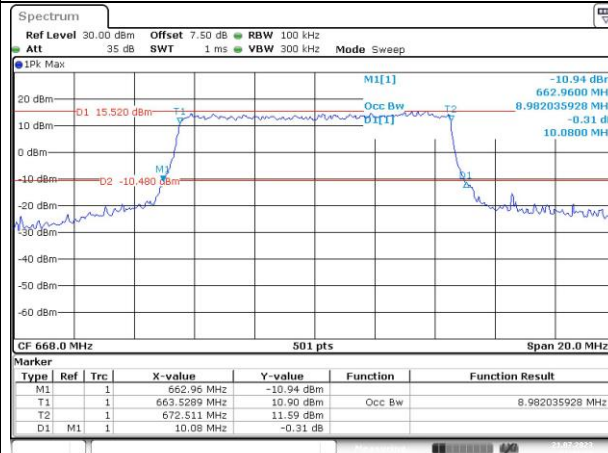
Occupied Bandwidth

Channel

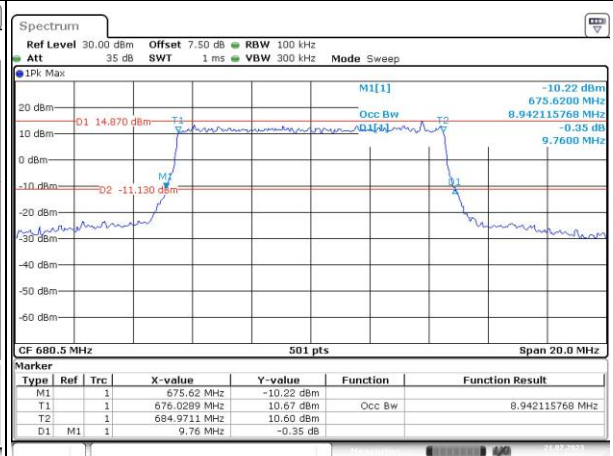
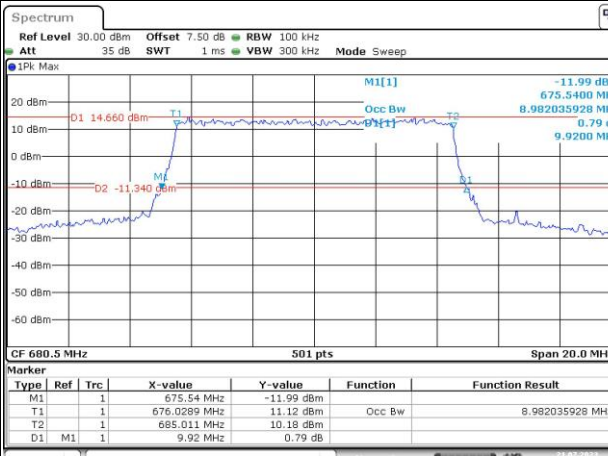
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

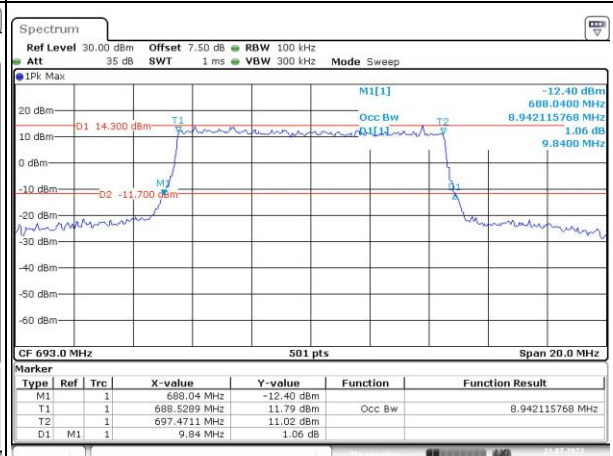
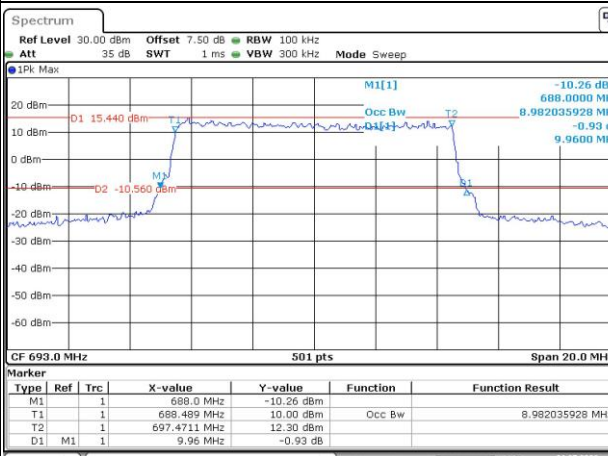
Lowest



Middle



Highest



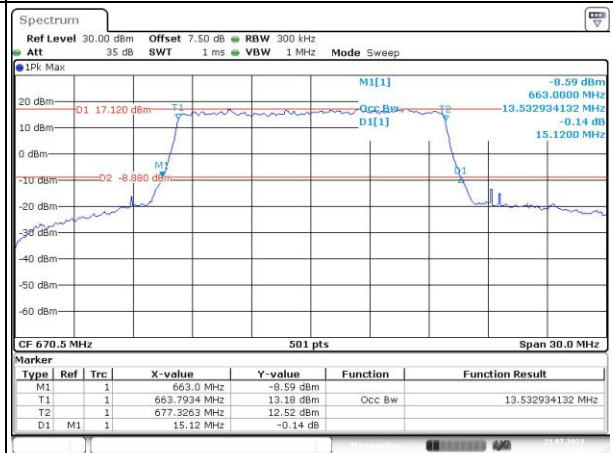
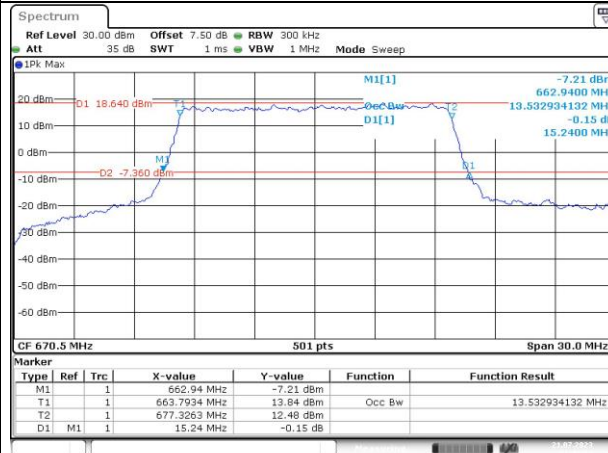
Occupied Bandwidth

Channel

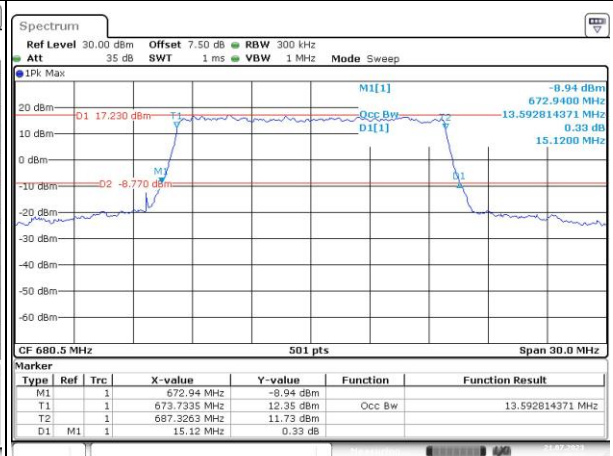
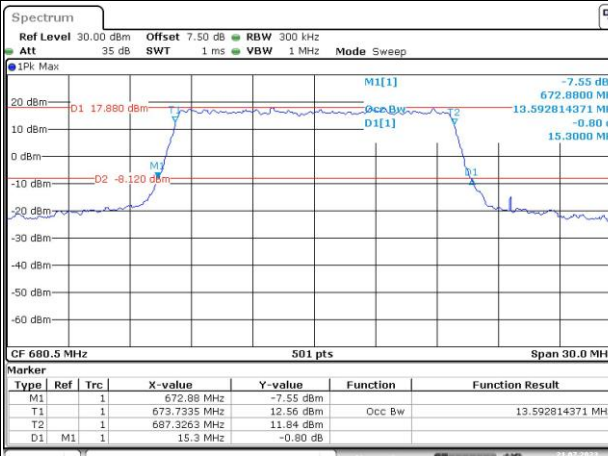
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

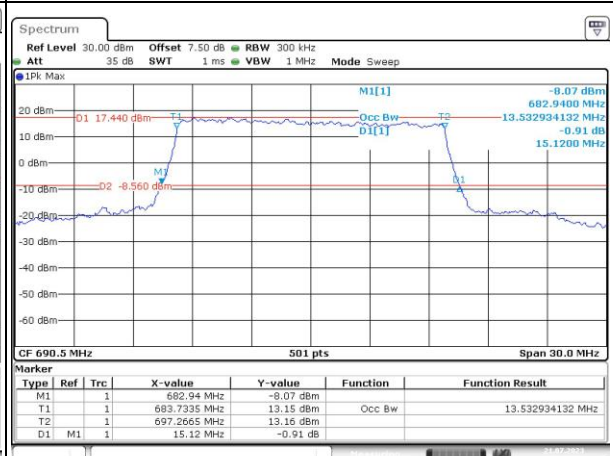
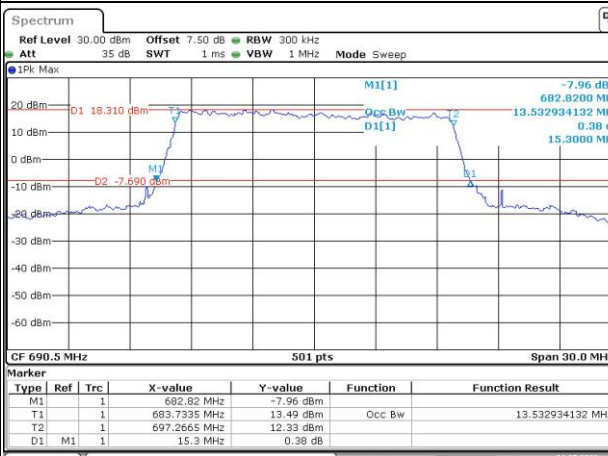
Lowest



Middle



Highest



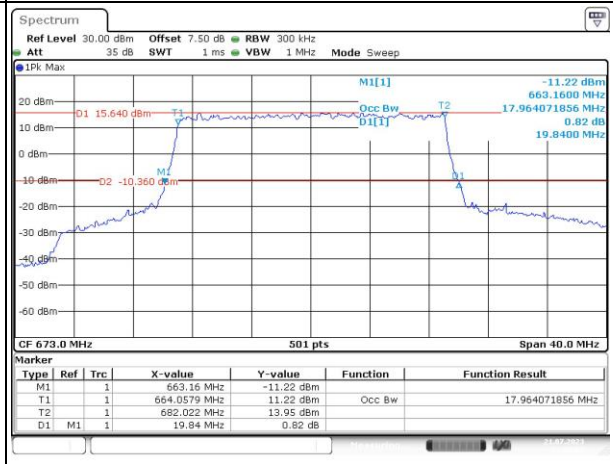
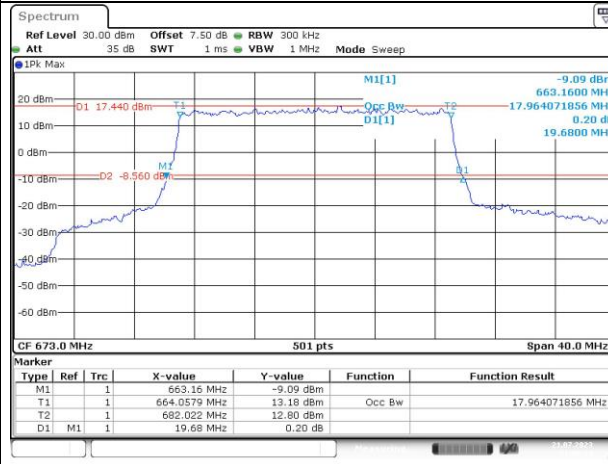
Occupied Bandwidth

Channel

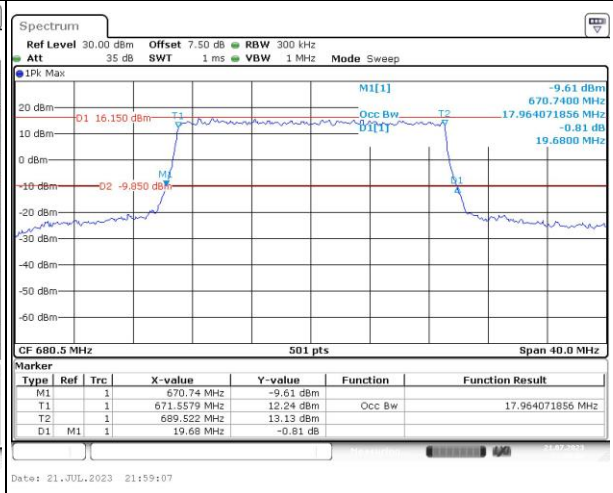
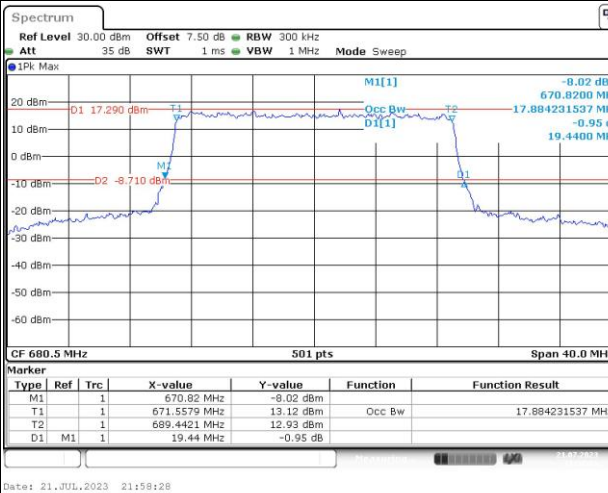
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

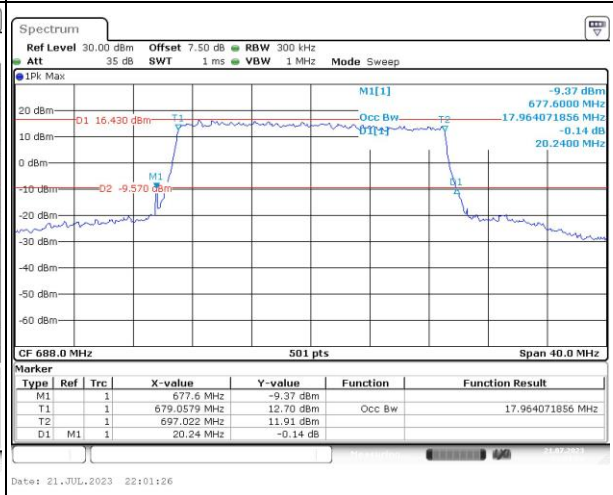
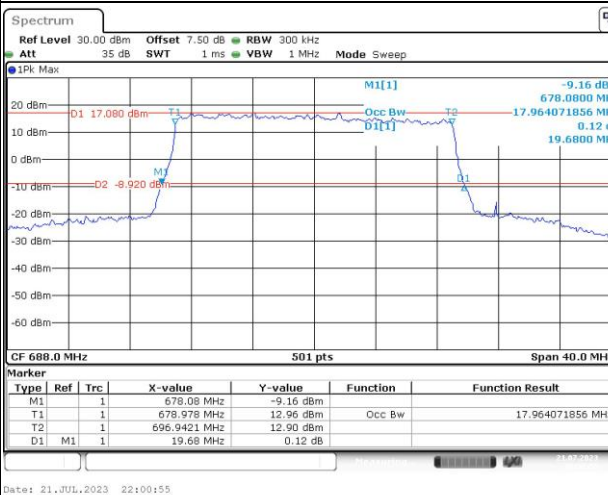
Lowest



Middle



Highest

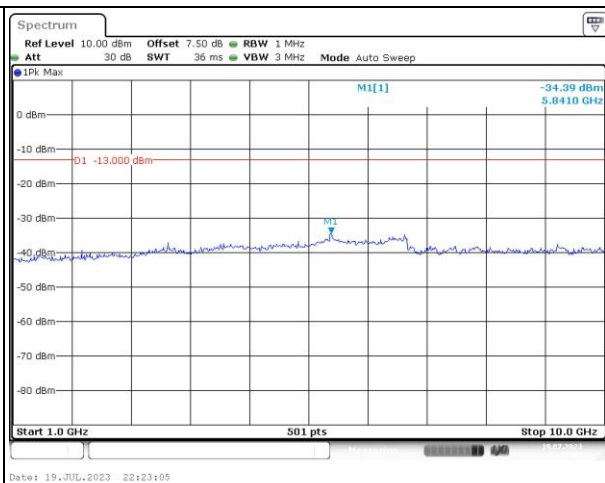
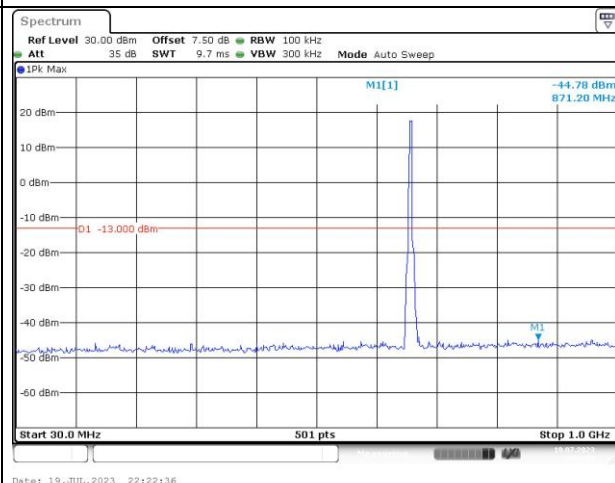


Spurious Emissions at Antenna Terminal

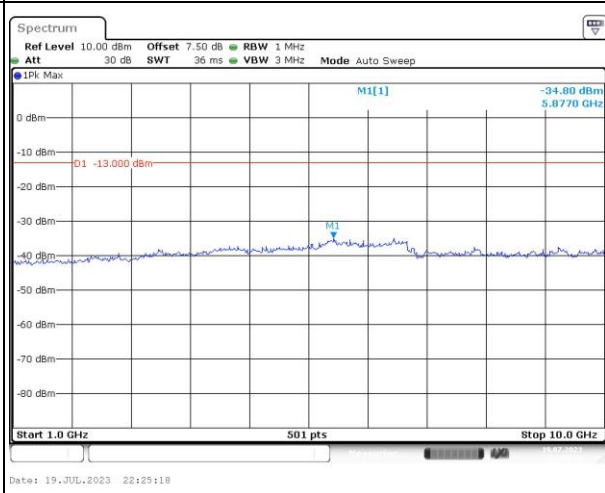
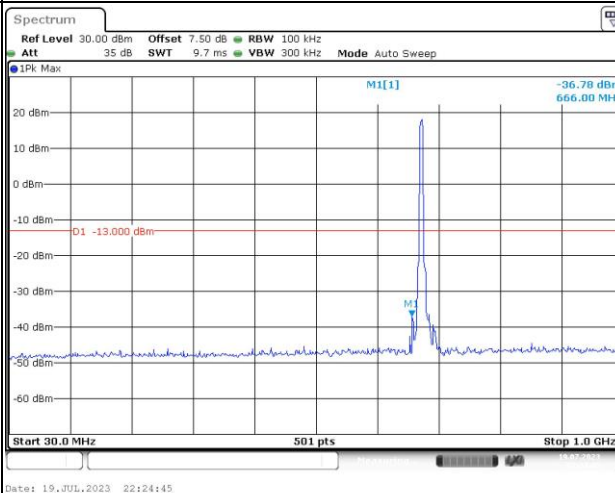
Channel

5MHz Bandwidth QPSK

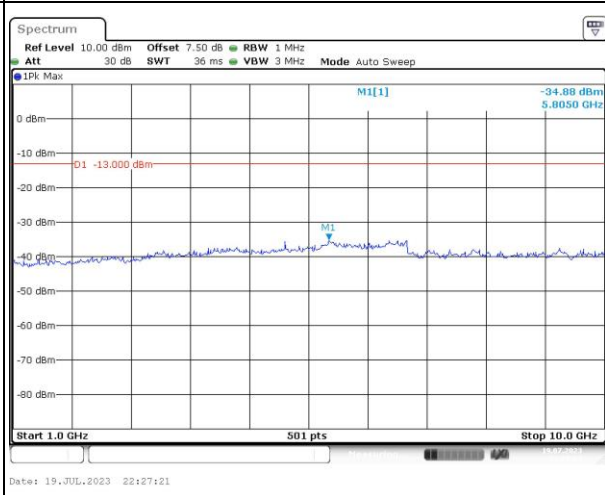
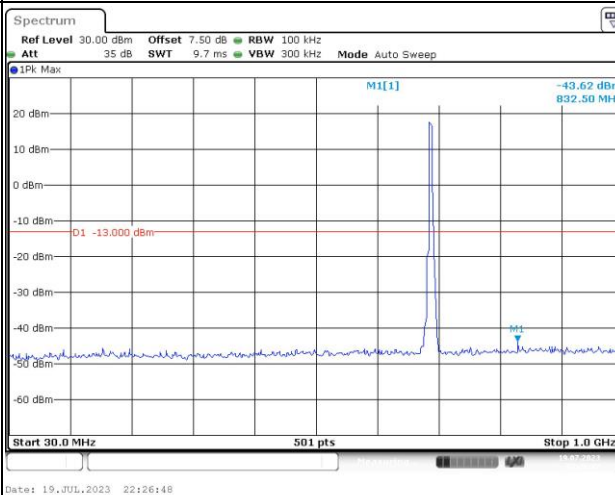
Lowest



Middle



Highest

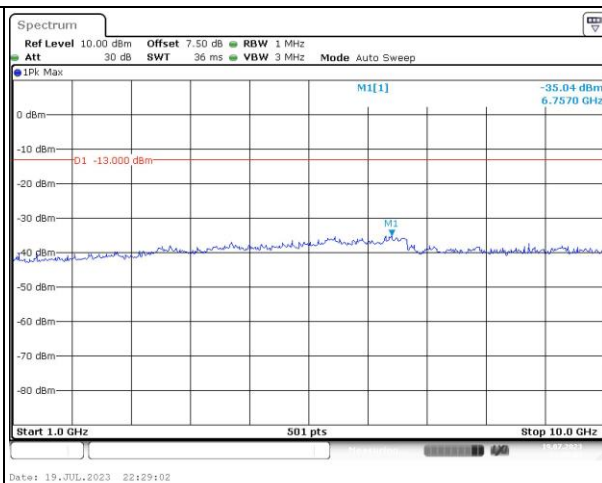
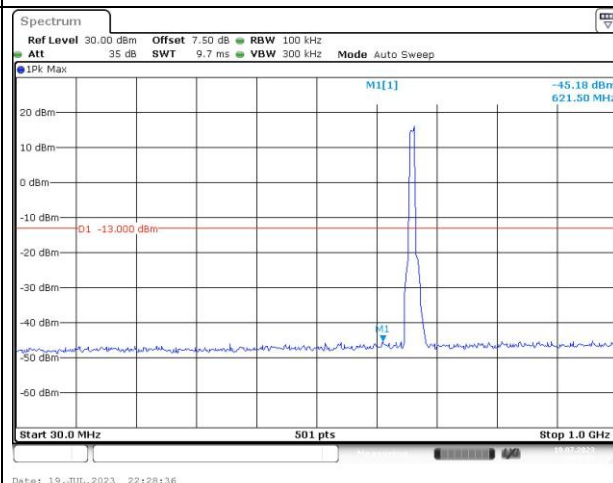


Spurious Emissions at Antenna Terminal

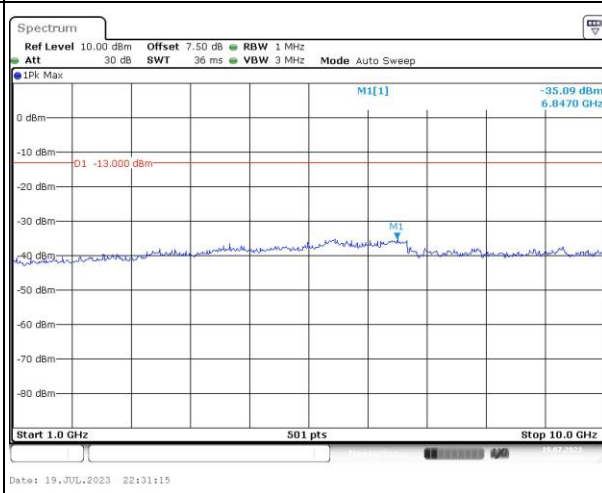
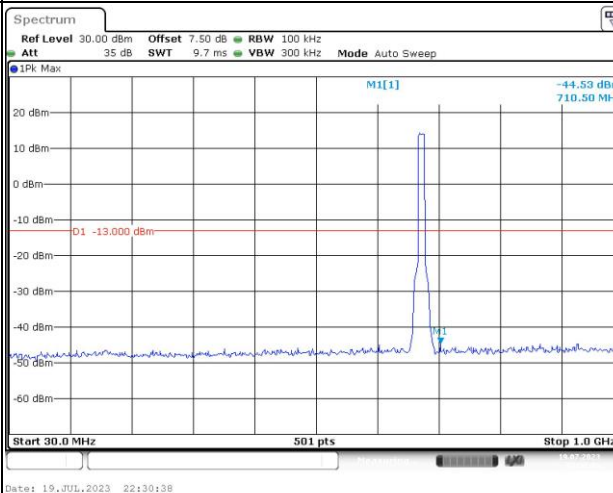
Channel

10MHz Bandwidth QPSK

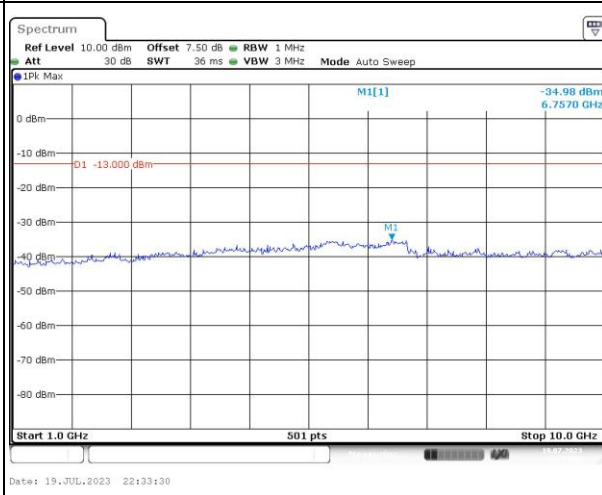
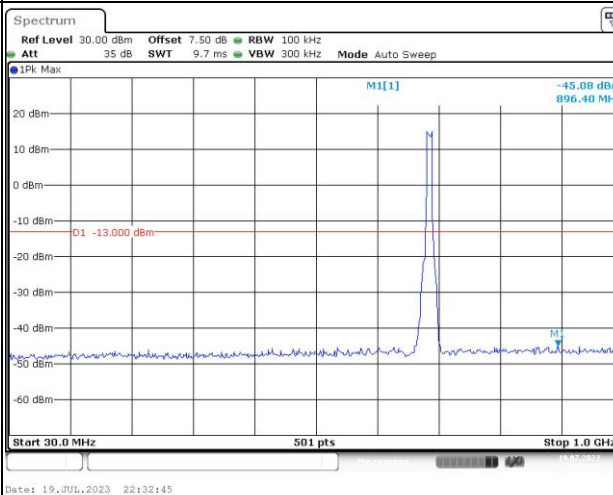
Lowest



Middle



Highest

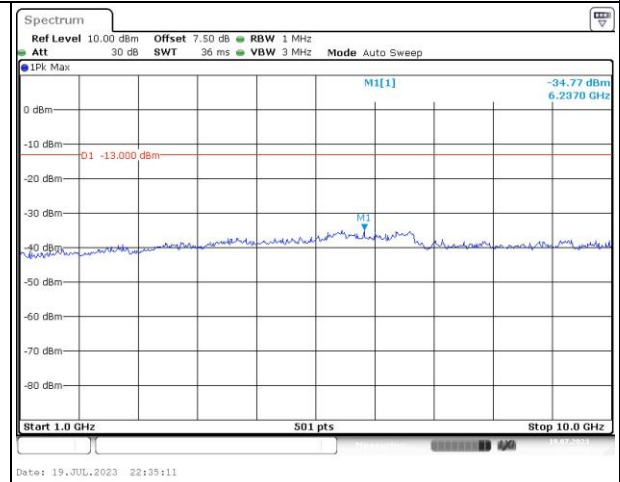
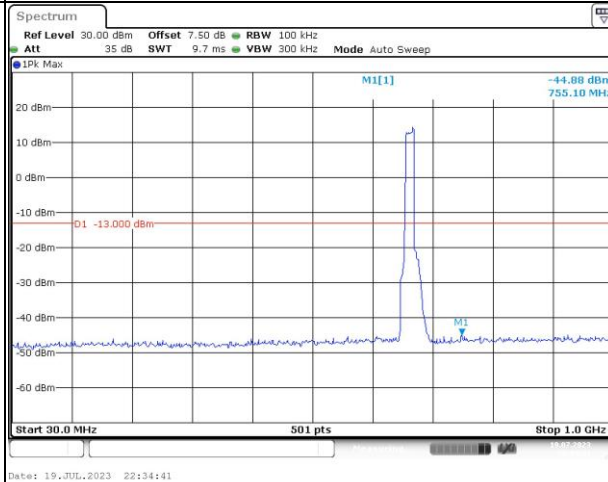


Spurious Emissions at Antenna Terminal

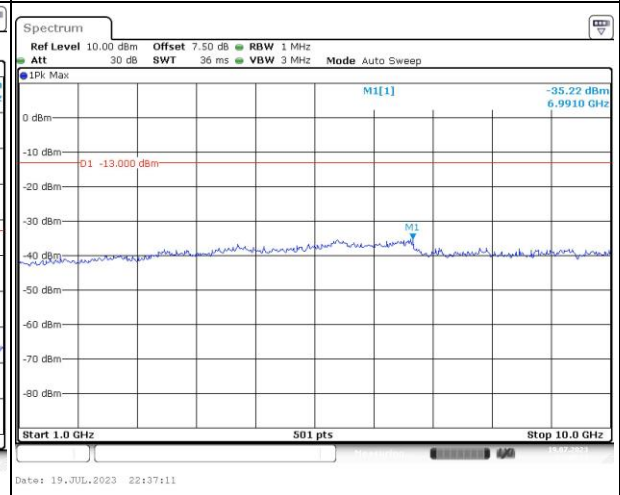
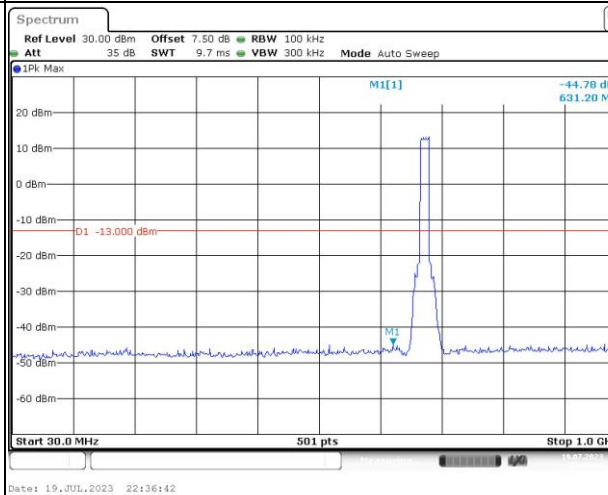
Channel

15MHz Bandwidth QPSK

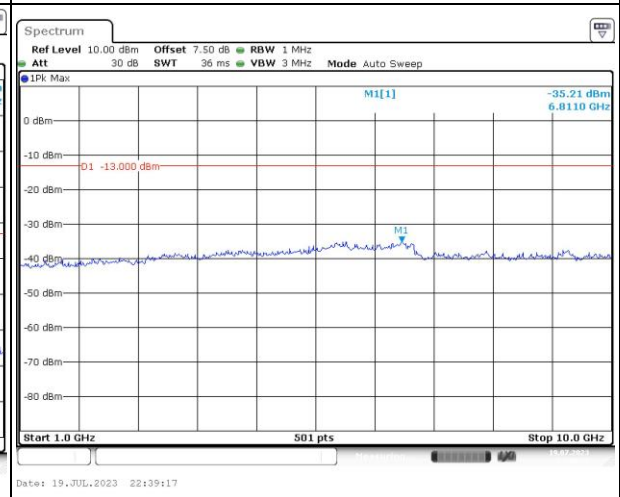
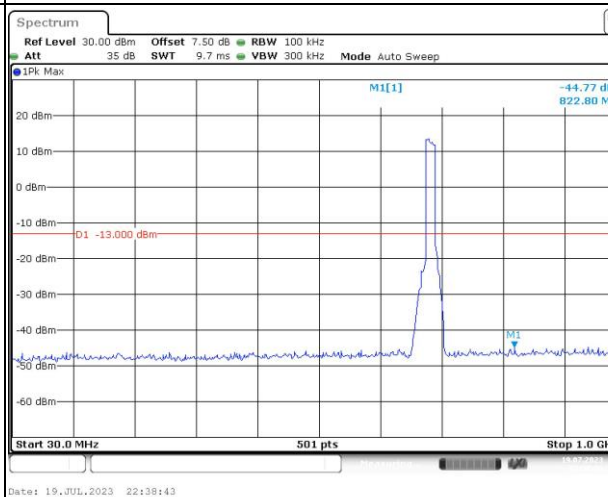
Lowest



Middle



Highest

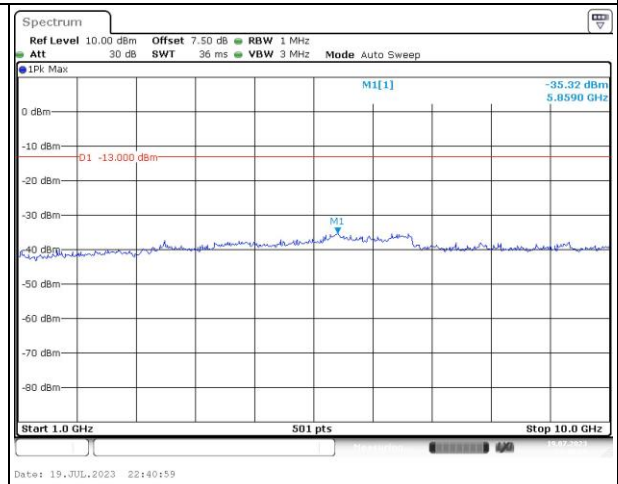
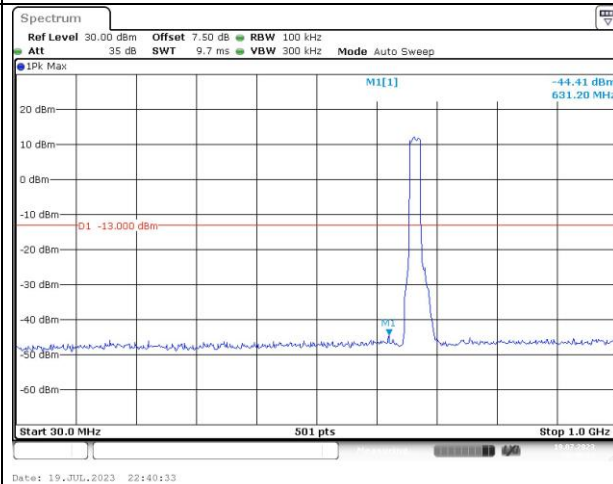


Spurious Emissions at Antenna Terminal

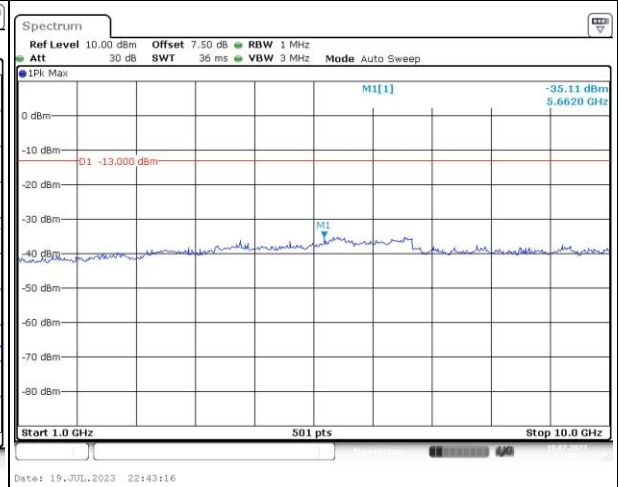
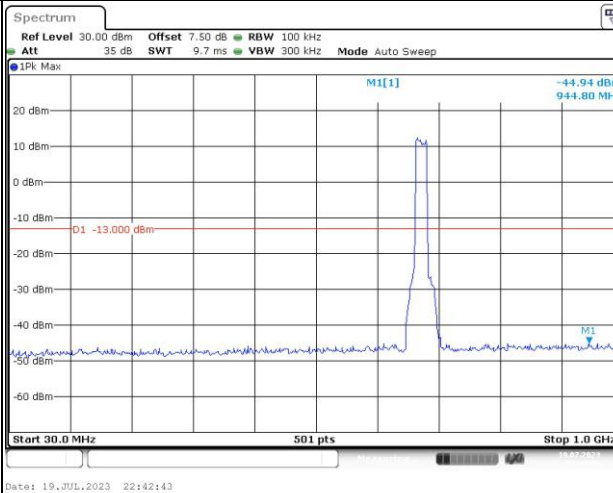
Channel

20MHz Bandwidth QPSK

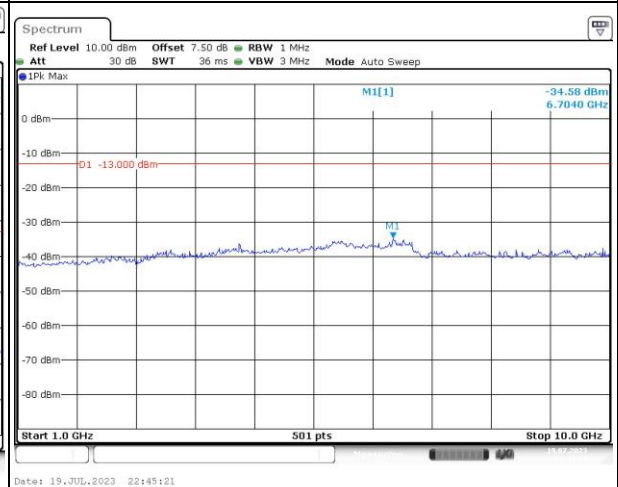
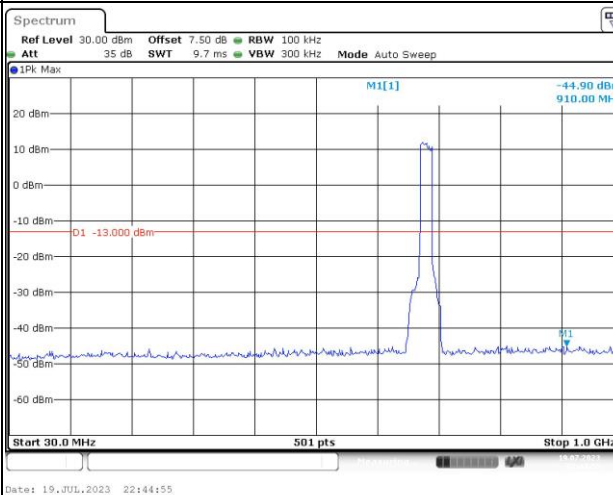
Lowest



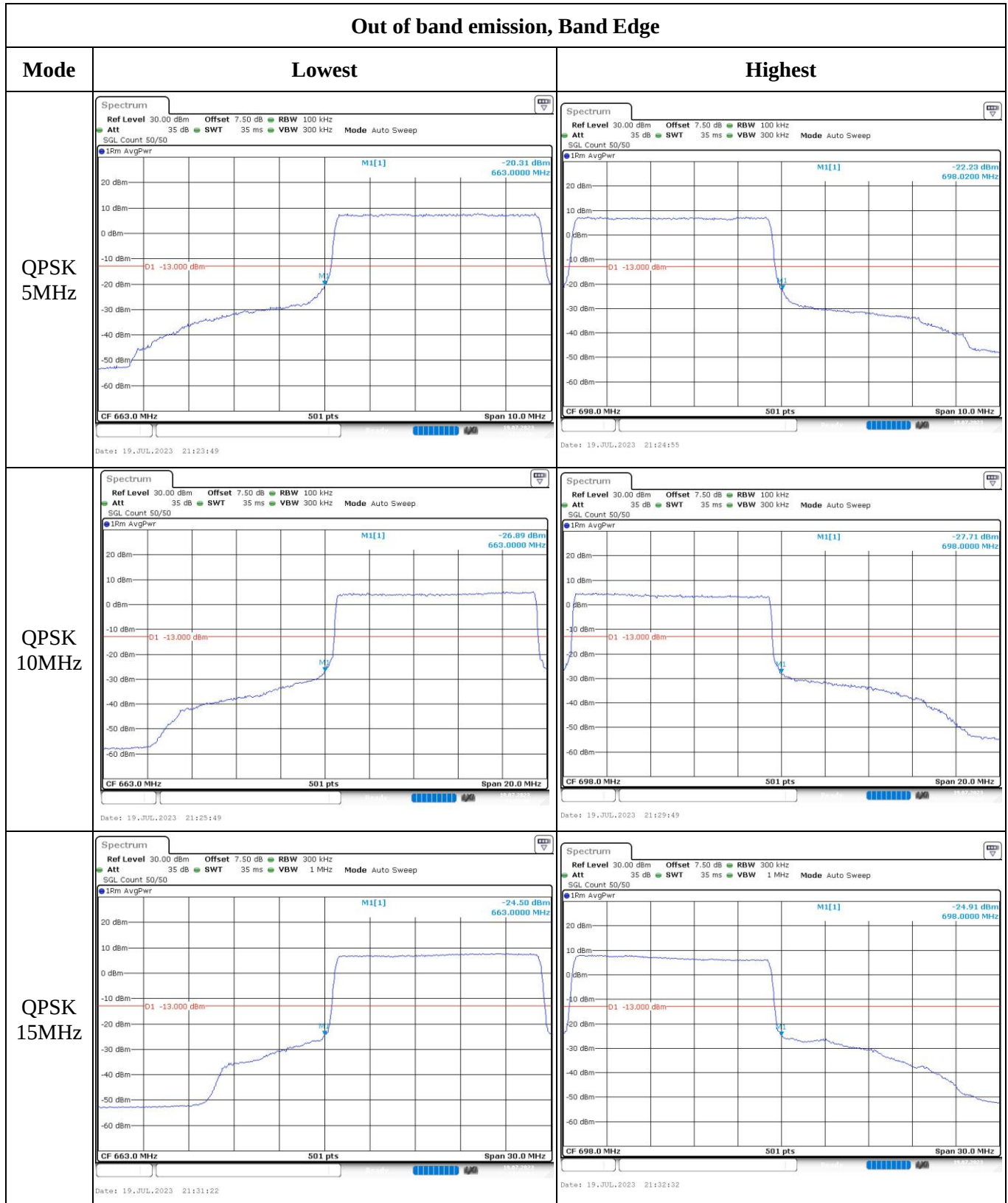
iddle



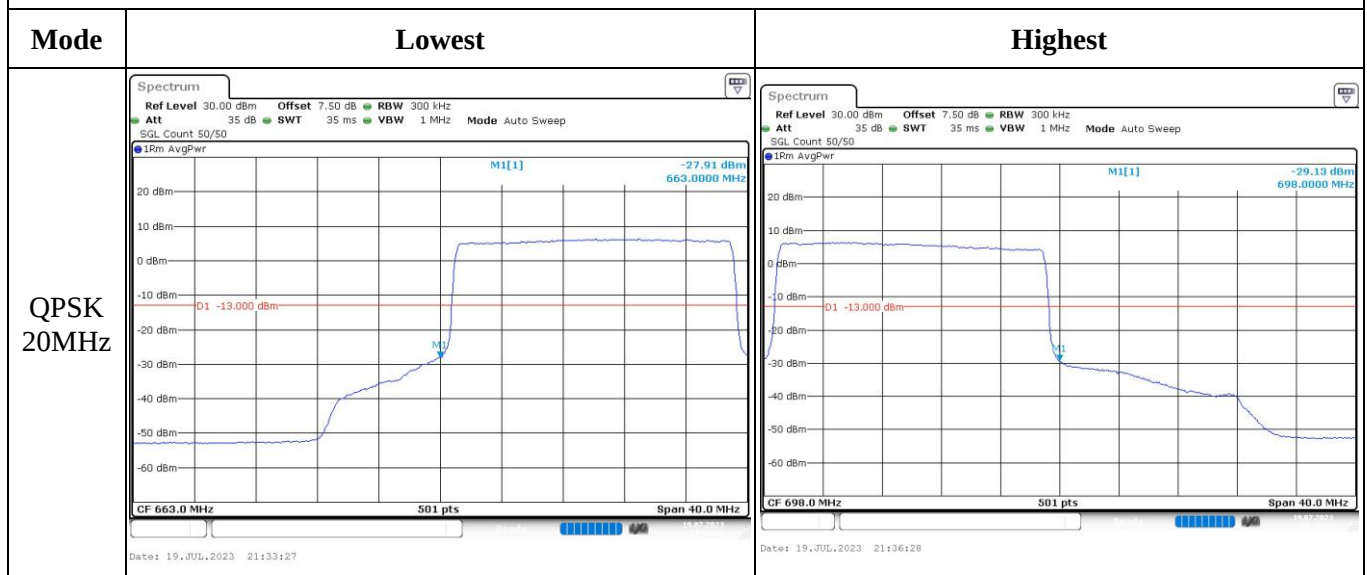
Highest



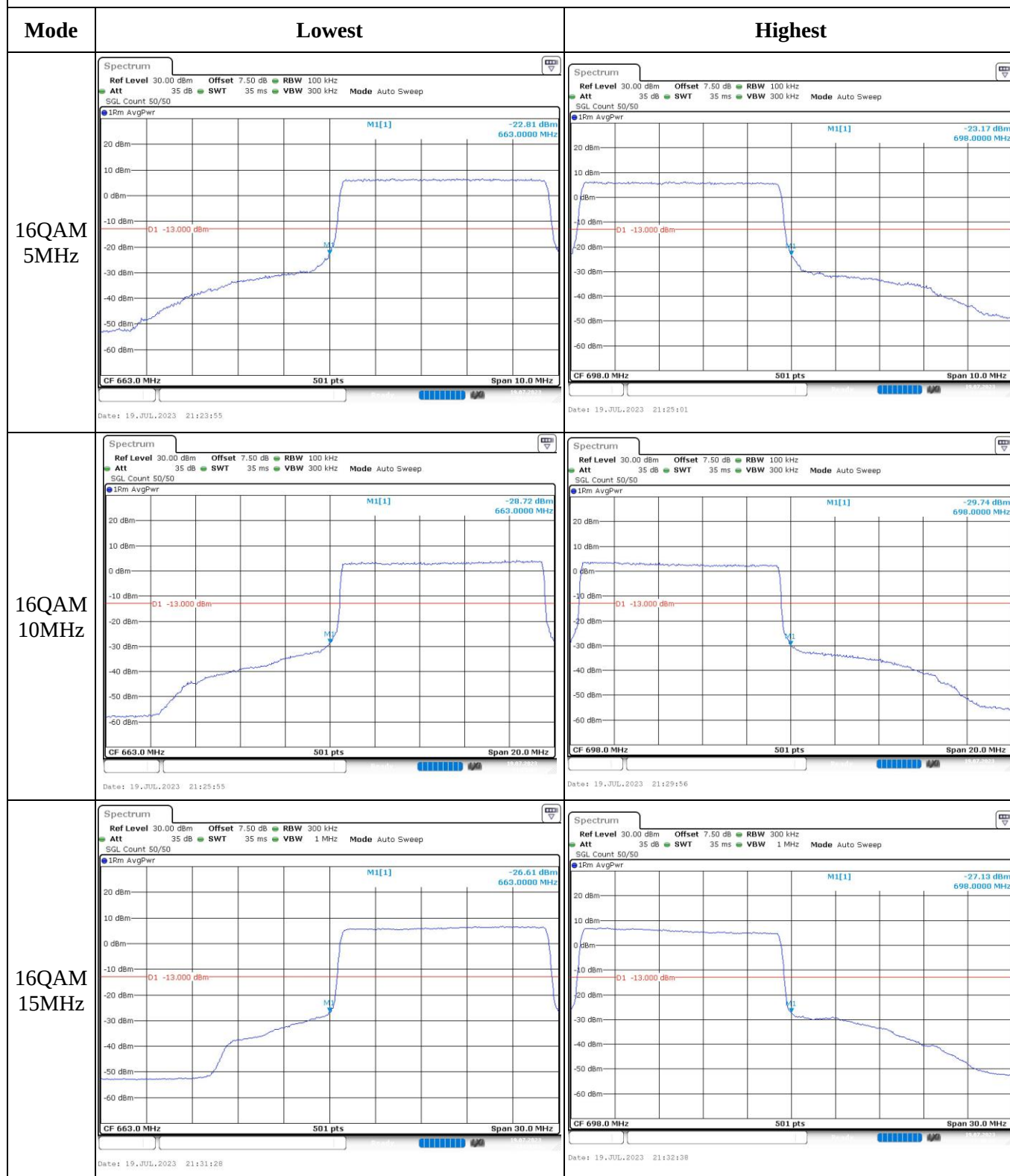
Out of band emission, Band Edge

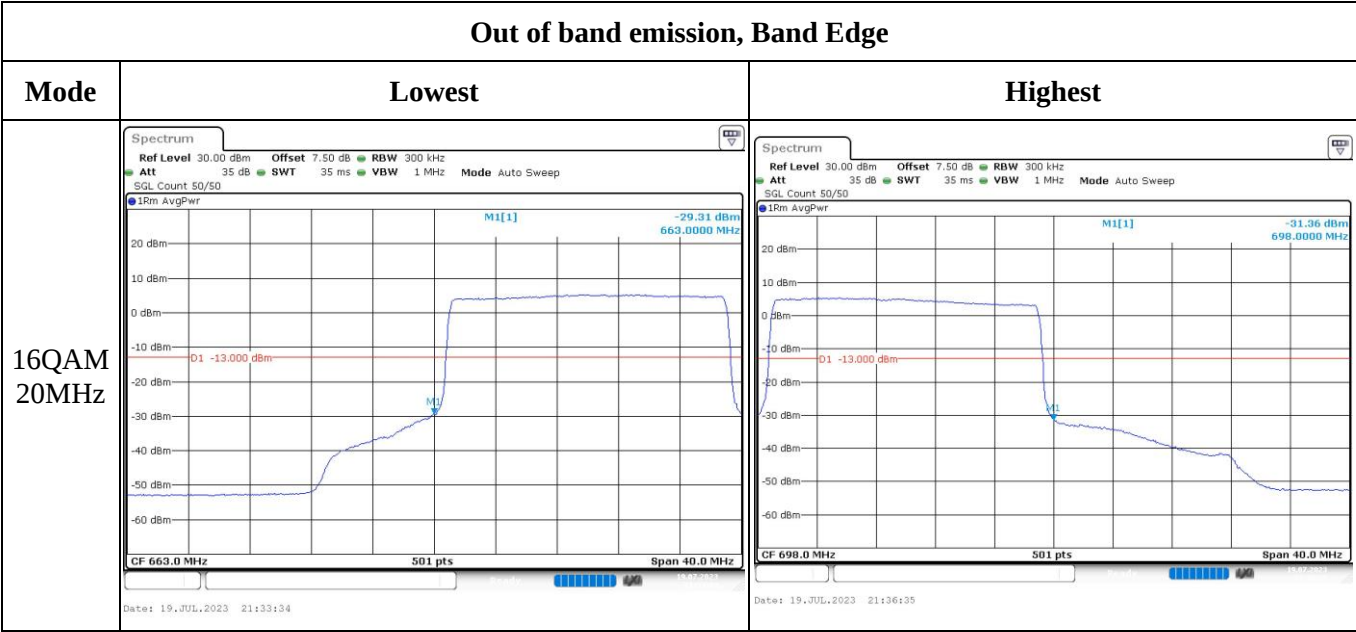


Out of band emission, Band Edge



Out of band emission, Band Edge





4.18 Radiated Spurious Emissions

Serial Number:	287E_2	Test Date:	2023/7/29~2023/8/2
Test Site:	996-1/966-2	Test Mode:	Transmitting
Tester:	Carl Xue,coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.3~27.1	Relative Humidity: (%)	51~62	ATM Pressure: (kPa)	99.5~99.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/8/7	2023/8/6
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/8/7	2023/8/6
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/9	2023/11/8
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/9/16	2023/9/15
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/8/7	2023/8/6
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17

*** 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 Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it's data was recorded.

Cellular Band (PART 22H)**30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
696.98	H	21.35	-51.99	0.00	0.55	-52.54	-13.00	39.54
721.83	V	21.38	-48.06	0.00	0.50	-48.56	-13.00	35.56
1648.400	H	53.69	-50.64	8.68	0.80	-42.76	-13.00	29.76
1648.400	V	50.37	-54.04	8.68	0.80	-46.16	-13.00	33.16
2472.600	H	53.17	-47.61	9.38	1.00	-39.23	-13.00	26.23
2472.600	V	51.64	-49.09	9.38	1.00	-40.71	-13.00	27.71
3296.800	H	34.69	-61.99	10.32	1.15	-52.82	-13.00	39.82
3296.800	V	35.16	-61.28	10.32	1.15	-52.11	-13.00	39.11
GSM 850 Frequency:836.6MHz								
719.30	H	21.27	-51.66	0.00	0.49	-52.15	-13.00	39.15
729.45	V	21.06	-48.22	0.00	0.53	-48.75	-13.00	35.75
1673.200	H	49.67	-54.64	8.71	0.85	-46.78	-13.00	33.78
1673.200	V	48.32	-56.09	8.71	0.85	-48.23	-13.00	35.23
2509.800	H	54.37	-46.24	9.42	1.01	-37.83	-13.00	24.83
2509.800	V	55.19	-45.43	9.42	1.01	-37.02	-13.00	24.02
3346.400	H	35.17	-62.00	10.34	1.16	-52.82	-13.00	39.82
3346.400	V	35.29	-61.74	10.34	1.16	-52.56	-13.00	39.56
GSM 850 Frequency:848.8MHz								
649.82	H	21.19	-52.40	0.00	0.52	-52.92	-13.00	39.92
658.99	V	21.20	-49.46	0.00	0.51	-49.97	-13.00	36.97
1697.600	H	46.35	-57.94	8.74	0.90	-50.10	-13.00	37.10
1697.600	V	42.97	-61.45	8.74	0.90	-53.61	-13.00	40.61
2546.400	H	56.79	-43.54	9.47	1.01	-35.08	-13.00	22.08
2546.400	V	56.33	-43.95	9.47	1.01	-35.49	-13.00	22.49
3395.200	H	35.17	-62.52	10.36	1.19	-53.35	-13.00	40.35
3395.200	V	34.26	-63.40	10.36	1.19	-54.23	-13.00	41.23

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
694.54	H	20.77	-52.58	0.00	0.55	-53.13	-13.00	40.13
568.93	V	20.91	-50.77	0.00	0.46	-51.23	-13.00	38.23
1652.800	H	34.56	-69.77	8.68	0.81	-61.90	-13.00	48.90
1652.800	V	34.72	-69.69	8.68	0.81	-61.82	-13.00	48.82
2479.200	H	42.58	-58.18	9.39	1.01	-49.80	-13.00	36.80
2479.200	V	41.35	-59.38	9.39	1.01	-51.00	-13.00	38.00
3305.600	H	33.47	-63.26	10.32	1.15	-54.09	-13.00	41.09
3305.600	V	34.07	-62.43	10.32	1.15	-53.26	-13.00	40.26
WCDMA Band 5 Frequency:836.6MHz								
584.99	H	20.89	-53.27	0.00	0.46	-53.73	-13.00	40.73
724.36	V	21.26	-48.13	0.00	0.51	-48.64	-13.00	35.64
1673.200	H	33.97	-70.34	8.71	0.85	-62.48	-13.00	49.48
1673.200	V	34.12	-70.29	8.71	0.85	-62.43	-13.00	49.43
2509.800	H	38.56	-62.05	9.42	1.01	-53.64	-13.00	40.64
2509.800	V	39.48	-61.14	9.42	1.01	-52.73	-13.00	39.73
3346.400	H	35.25	-61.92	10.34	1.16	-52.74	-13.00	39.74
3346.400	V	35.73	-61.30	10.34	1.16	-52.12	-13.00	39.12
WCDMA Band 5 Frequency:846.6MHz								
726.90	H	21.45	-51.33	0.00	0.52	-51.85	-13.00	38.85
687.28	V	21.05	-49.10	0.00	0.53	-49.63	-13.00	36.63
1693.200	H	34.28	-70.02	8.73	0.89	-62.18	-13.00	49.18
1693.200	V	34.67	-69.75	8.73	0.89	-61.91	-13.00	48.91
2539.800	H	39.24	-61.14	9.46	1.01	-52.69	-13.00	39.69
2539.800	V	38.67	-61.67	9.46	1.01	-53.22	-13.00	40.22
3386.400	H	35.16	-62.43	10.35	1.18	-53.26	-13.00	40.26
3386.400	V	35.07	-62.47	10.35	1.18	-53.30	-13.00	40.30

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
91.67	H	29.03	-83.89	0.00	0.18	-84.07	-13.00	71.07
43.81	V	35.20	-59.56	-21.37	0.12	-81.05	-13.00	68.05
3700.400	H	37.59	-59.73	10.60	1.25	-50.38	-13.00	37.38
3700.400	V	37.48	-59.82	10.60	1.25	-50.47	-13.00	37.47
5550.600	H	35.64	-57.62	11.44	1.49	-47.67	-13.00	34.67
5550.600	V	34.27	-58.83	11.44	1.49	-48.88	-13.00	35.88
GSM 1900 Frequency:1880MHz								
126.77	H	29.45	-82.71	0.00	0.21	-82.92	-13.00	69.92
44.58	V	35.36	-60.40	-20.35	0.12	-80.87	-13.00	67.87
3760.000	H	38.64	-57.77	10.66	1.24	-48.35	-13.00	35.35
3760.000	V	37.42	-58.87	10.66	1.24	-49.45	-13.00	36.45
5640.000	H	35.21	-58.24	11.33	1.54	-48.45	-13.00	35.45
5640.000	V	34.73	-58.60	11.33	1.54	-48.81	-13.00	35.81
GSM 1900 Frequency:1909.8MHz								
271.11	H	29.21	-82.19	0.00	0.31	-82.50	-13.00	69.50
44.58	V	34.88	-60.88	-20.35	0.12	-81.35	-13.00	68.35
3819.600	H	37.69	-58.17	10.72	1.29	-48.74	-13.00	35.74
3819.600	V	38.16	-57.56	10.72	1.29	-48.13	-13.00	35.13
5729.400	H	35.29	-58.19	11.22	1.59	-48.56	-13.00	35.56
5729.400	V	36.20	-57.16	11.22	1.59	-47.53	-13.00	34.53

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
571.75	H	28.95	-76.44	0.00	0.46	-76.90	-13.00	63.90
44.58	V	35.23	-60.53	-20.35	0.12	-81.00	-13.00	68.00
3704.800	H	43.69	-53.57	10.60	1.25	-44.22	-13.00	31.22
3704.800	V	42.57	-54.66	10.60	1.25	-45.31	-13.00	32.31
5557.200	H	37.96	-55.32	11.43	1.49	-45.38	-13.00	32.38
5557.200	V	38.35	-54.78	11.43	1.49	-44.84	-13.00	31.84
WCDMA Band II, Frequency:1880 MHz								
187.67	H	29.34	-83.30	0.00	0.26	-83.56	-13.00	70.56
43.96	V	34.97	-59.98	-21.17	0.12	-81.27	-13.00	68.27
3760.000	H	44.19	-52.22	10.66	1.24	-42.80	-13.00	29.80
3760.000	V	40.13	-56.16	10.66	1.24	-46.74	-13.00	33.74
5640.000	H	36.94	-56.51	11.33	1.54	-46.72	-13.00	33.72
5640.000	V	37.52	-55.81	11.33	1.54	-46.02	-13.00	33.02
WCDMA Band II, Frequency:1907.6MHz								
82.68	H	29.27	-81.38	0.00	0.17	-81.55	-13.00	68.55
44.58	V	35.36	-60.40	-20.35	0.12	-80.87	-13.00	67.87
3815.200	H	44.68	-51.17	10.72	1.29	-41.74	-13.00	28.74
3815.200	V	38.79	-56.90	10.72	1.29	-47.47	-13.00	34.47
5722.800	H	37.64	-55.85	11.23	1.58	-46.20	-13.00	33.20
5722.800	V	39.28	-54.07	11.23	1.58	-44.42	-13.00	31.42

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band IV, Frequency:1712.4 MHz								
60.11	H	29.16	-74.72	-10.24	0.14	-85.10	-13.00	72.10
43.81	V	35.14	-59.62	-21.37	0.12	-81.11	-13.00	68.11
3424.800	H	40.02	-57.75	10.37	1.17	-48.55	-13.00	35.55
3424.800	V	35.47	-62.27	10.37	1.17	-53.07	-13.00	40.07
5137.200	H	42.57	-51.05	11.28	1.46	-41.23	-13.00	28.23
5137.200	V	40.31	-53.19	11.28	1.46	-43.37	-13.00	30.37
WCDMA Band IV, Frequency:1732.6 MHz								
87.14	H	29.56	-82.54	0.00	0.17	-82.71	-13.00	69.71
39.71	V	35.28	-54.26	-26.26	0.11	-80.63	-13.00	67.63
3465.200	H	38.79	-59.02	10.39	1.15	-49.78	-13.00	36.78
3465.200	V	36.77	-61.00	10.39	1.15	-51.76	-13.00	38.76
5197.800	H	41.34	-52.79	11.32	1.44	-42.91	-13.00	29.91
5197.800	V	39.89	-54.09	11.32	1.44	-44.21	-13.00	31.21
WCDMA Band IV, Frequency:1752.6MHz								
664.70	H	29.43	-75.25	0.00	0.50	-75.75	-13.00	62.75
44.56	V	34.92	-60.81	-20.38	0.12	-81.31	-13.00	68.31
3505.200	H	39.24	-58.59	10.41	1.18	-49.36	-13.00	36.36
3505.200	V	38.52	-59.25	10.41	1.18	-50.02	-13.00	37.02
5257.800	H	42.17	-51.56	11.35	1.47	-41.68	-13.00	28.68
5257.800	V	39.78	-53.73	11.35	1.47	-43.85	-13.00	30.85

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1850.7 MHz								
402.16	H	28.97	-80.19	0.00	0.40	-80.59	-13.00	67.59
39.71	V	35.25	-54.29	-26.26	0.11	-80.66	-13.00	67.66
3701.400	H	36.89	-60.42	10.60	1.25	-51.07	-13.00	38.07
3701.400	V	36.75	-60.54	10.60	1.25	-51.19	-13.00	38.19
5552.100	H	35.48	-57.79	11.44	1.49	-47.84	-13.00	34.84
5552.100	V	34.97	-58.13	11.44	1.49	-48.18	-13.00	35.18
QPSK,Frequency:1880 MHz								
636.35	H	29.15	-75.59	0.00	0.52	-76.11	-13.00	63.11
43.81	V	34.65	-60.11	-21.37	0.12	-81.60	-13.00	68.60
3760.000	H	37.68	-58.73	10.66	1.24	-49.31	-13.00	36.31
3760.000	V	36.05	-60.24	10.66	1.24	-50.82	-13.00	37.82
5640.000	H	34.16	-59.29	11.33	1.54	-49.50	-13.00	36.50
5640.000	V	34.78	-58.55	11.33	1.54	-48.76	-13.00	35.76
QPSK,Frequency:1909.3 MHz								
677.77	H	29.84	-74.81	0.00	0.51	-75.32	-13.00	62.32
44.12	V	34.89	-60.27	-20.96	0.12	-81.35	-13.00	68.35
3818.600	H	37.46	-58.40	10.72	1.29	-48.97	-13.00	35.97
3818.600	V	36.53	-59.18	10.72	1.29	-49.75	-13.00	36.75
5727.900	H	36.08	-57.40	11.23	1.59	-47.76	-13.00	34.76
5727.900	V	35.78	-57.58	11.23	1.59	-47.94	-13.00	34.94

LTE Band 4 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK,Frequency:1710.7 MHz								
533.71	H	29.41	-76.76	0.00	0.46	-77.22	-13.00	64.22
43.65	V	34.86	-59.69	-21.58	0.12	-81.39	-13.00	68.39
3421.400	H	36.49	-61.27	10.37	1.17	-52.07	-13.00	39.07
3421.400	V	35.88	-61.85	10.37	1.17	-52.65	-13.00	39.65
5132.100	H	39.54	-54.03	11.28	1.47	-44.22	-13.00	31.22
5132.100	V	37.81	-55.65	11.28	1.47	-45.84	-13.00	32.84
QPSK,Frequency:1732.5 MHz								
586.66	H	28.88	-76.20	0.00	0.47	-76.67	-13.00	63.67
43.81	V	35.10	-59.66	-21.37	0.12	-81.15	-13.00	68.15
3465.000	H	36.51	-61.30	10.39	1.15	-52.06	-13.00	39.06
3465.000	V	37.11	-60.66	10.39	1.15	-51.42	-13.00	38.42
5197.500	H	40.23	-53.90	11.32	1.44	-44.02	-13.00	31.02
5197.500	V	38.64	-55.34	11.32	1.44	-45.46	-13.00	32.46
QPSK,Frequency:1754.3MHz								
161.06	H	28.82	-82.83	0.00	0.24	-83.07	-13.00	70.07
42.90	V	34.20	-59.38	-22.57	0.12	-82.07	-13.00	69.07
3508.600	H	37.26	-60.56	10.41	1.19	-51.34	-13.00	38.34
3508.600	V	36.76	-61.00	10.41	1.19	-51.78	-13.00	38.78
5262.900	H	39.97	-53.73	11.36	1.47	-43.84	-13.00	30.84
5262.900	V	38.72	-54.75	11.36	1.47	-44.86	-13.00	31.86

LTE Band 5(30MHz-10GHz):

EYE Band 5 (35MHz to 3GHz).								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 824.7 MHz								
724.36	H	20.92	-51.91	0.00	0.51	-52.42	-13.00	39.42
704.75	V	21.02	-48.80	0.00	0.55	-49.35	-13.00	36.35
1649.400	H	39.87	-64.46	8.68	0.80	-56.58	-13.00	43.58
1649.400	V	42.59	-61.82	8.68	0.80	-53.94	-13.00	40.94
2474.100	H	49.83	-50.95	9.38	1.00	-42.57	-13.00	29.57
2474.100	V	47.91	-52.82	9.38	1.00	-44.44	-13.00	31.44
3298.800	H	35.24	-61.44	10.32	1.15	-52.27	-13.00	39.27
3298.800	V	34.19	-62.25	10.32	1.15	-53.08	-13.00	40.08
QPSK, Frequency: 836.5 MHz								
582.95	H	20.99	-53.21	0.00	0.46	-53.67	-13.00	40.67
498.22	V	21.38	-50.27	0.00	0.45	-50.72	-13.00	37.72
1673.000	H	40.35	-63.96	8.71	0.85	-56.10	-13.00	43.10
1673.000	V	44.35	-60.06	8.71	0.85	-52.20	-13.00	39.20
2509.500	H	50.14	-50.47	9.42	1.01	-42.06	-13.00	29.06
2509.500	V	48.67	-51.95	9.42	1.01	-43.54	-13.00	30.54
3346.000	H	36.42	-60.74	10.34	1.16	-51.56	-13.00	38.56
3346.000	V	35.87	-61.15	10.34	1.16	-51.97	-13.00	38.97
QPSK, Frequency: 848.3 MHz								
696.98	H	21.33	-52.01	0.00	0.55	-52.56	-13.00	39.56
724.81	V	20.86	-48.52	0.00	0.51	-49.03	-13.00	36.03
1696.600	H	40.67	-63.62	8.74	0.89	-55.77	-13.00	42.77
1696.600	V	43.97	-60.45	8.74	0.89	-52.60	-13.00	39.60
2544.900	H	51.23	-49.11	9.47	1.01	-40.65	-13.00	27.65
2544.900	V	49.63	-50.67	9.47	1.01	-42.21	-13.00	29.21
3393.200	H	35.13	-62.54	10.36	1.19	-53.37	-13.00	40.37
3393.200	V	34.97	-62.66	10.36	1.19	-53.49	-13.00	40.49

LTE Band 7 (30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 2502.5 MHz								
236.78	H	29.48	-82.68	0.00	0.29	-82.97	-25.00	57.97
44.58	V	35.49	-60.27	-20.35	0.12	-80.74	-25.00	55.74
5005.000	H	36.59	-56.37	11.20	1.47	-46.64	-25.00	21.64
5005.000	V	35.76	-57.06	11.20	1.47	-47.33	-25.00	22.33
7507.500	H	34.82	-54.97	10.90	1.95	-46.02	-25.00	21.02
7507.500	V	35.14	-55.15	10.90	1.95	-46.20	-25.00	21.20
QPSK, Frequency:2535 MHz								
72.97	H	28.87	-76.69	-3.52	0.16	-80.37	-25.00	55.37
43.96	V	34.66	-60.29	-21.17	0.12	-81.58	-25.00	56.58
5070.000	H	36.47	-56.72	11.24	1.47	-46.95	-25.00	21.95
5070.000	V	35.64	-57.45	11.24	1.47	-47.68	-25.00	22.68
7605.000	H	35.37	-54.10	10.88	2.01	-45.23	-25.00	20.23
7605.000	V	35.16	-55.03	10.88	2.01	-46.16	-25.00	21.16
QPSK, Frequency: 2567.5 MHz								
728.97	H	28.95	-75.00	0.00	0.53	-75.53	-25.00	50.53
43.81	V	35.11	-59.65	-21.37	0.12	-81.14	-25.00	56.14
5135.000	H	34.76	-58.84	11.28	1.47	-49.03	-25.00	24.03
5135.000	V	36.54	-56.95	11.28	1.47	-47.14	-25.00	22.14
7702.500	H	36.28	-53.24	10.86	1.97	-44.35	-25.00	19.35
7702.500	V	35.42	-54.76	10.86	1.97	-45.87	-25.00	20.87

LTE Band 12 (30MHz-10GHz):

			Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency: 699.7 MHz								
593.25	H	20.94	-53.05	0.00	0.50	-53.55	-13.00	40.55
640.78	V	21.60	-49.39	0.00	0.52	-49.91	-13.00	36.91
1399.400	H	43.59	-60.11	8.22	0.71	-52.60	-13.00	39.60
1399.400	V	41.97	-61.78	8.22	0.71	-54.27	-13.00	41.27
2099.100	H	44.03	-57.85	9.16	0.91	-49.60	-13.00	36.60
2099.100	V	43.74	-58.09	9.16	0.91	-49.84	-13.00	36.84
2798.800	H	34.26	-65.67	9.88	1.04	-56.83	-13.00	43.83
2798.800	V	34.17	-65.63	9.88	1.04	-56.79	-13.00	43.79
QPSK, 1.4MHz, Frequency:707.5 MHz								
638.54	H	20.74	-52.91	0.00	0.52	-53.43	-13.00	40.43
522.96	V	20.94	-50.67	0.00	0.42	-51.09	-13.00	38.09
1415.000	H	44.35	-59.32	8.26	0.72	-51.78	-13.00	38.78
1415.000	V	42.03	-61.69	8.26	0.72	-54.15	-13.00	41.15
2122.500	H	43.16	-58.83	9.17	0.92	-50.58	-13.00	37.58
2122.500	V	43.35	-58.62	9.17	0.92	-50.37	-13.00	37.37
2830.000	H	34.31	-65.49	9.93	1.06	-56.62	-13.00	43.62
2830.000	V	33.97	-65.76	9.93	1.06	-56.89	-13.00	43.89
QPSK, 1.4MHz, Frequency: 715.3 MHz								
580.91	H	21.12	-53.12	0.00	0.46	-53.58	-13.00	40.58
582.95	V	20.87	-50.83	0.00	0.46	-51.29	-13.00	38.29
1430.600	H	43.29	-60.34	8.31	0.73	-52.76	-13.00	39.76
1430.600	V	42.57	-61.12	8.31	0.73	-53.54	-13.00	40.54
2145.900	H	43.69	-58.41	9.19	0.93	-50.15	-13.00	37.15
2145.900	V	44.21	-57.90	9.19	0.93	-49.64	-13.00	36.64
2861.200	H	34.63	-65.02	9.98	1.07	-56.11	-13.00	43.11
2861.200	V	35.16	-64.51	9.98	1.07	-55.60	-13.00	42.60

LTE Band 13 (30MHz-10GHz):

EYE Band 15 (50MHz 10GHz).								
Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 779.5 MHz								
704.34	H	20.75	-52.48	0.00	0.55	-53.03	-13.00	40.03
682.48	V	21.04	-49.20	0.00	0.52	-49.72	-13.00	36.72
1559.000	H	44.35	-59.64	8.57	0.80	-51.87	-40.00	11.87
1559.000	V	43.97	-60.08	8.57	0.80	-52.31	-40.00	12.31
2338.500	H	44.27	-57.32	9.30	0.97	-48.99	-13.00	35.99
2338.500	V	44.62	-56.74	9.30	0.97	-48.41	-13.00	35.41
3118.000	H	34.62	-62.87	10.25	1.13	-53.75	-13.00	40.75
3118.000	V	34.51	-62.84	10.25	1.13	-53.72	-13.00	40.72
QPSK, 5MHz, Frequency:784.5 MHz								
557.01	H	21.18	-53.53	0.00	0.48	-54.01	-13.00	41.01
716.79	V	20.95	-48.60	0.00	0.50	-49.10	-13.00	36.10
1569.000	H	43.25	-60.83	8.58	0.81	-53.06	-40.00	13.06
1569.000	V	40.67	-63.46	8.58	0.81	-55.69	-40.00	15.69
2353.500	H	49.87	-51.58	9.31	0.97	-43.24	-13.00	30.24
2353.500	V	50.12	-51.10	9.31	0.97	-42.76	-13.00	29.76
3138.000	H	34.26	-63.14	10.26	1.14	-54.02	-13.00	41.02
3138.000	V	33.97	-63.26	10.26	1.14	-54.14	-13.00	41.14

LTE Band 17 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz, QPSK, Frequency: 706.5 MHz								
517.49	H	20.73	-54.76	0.00	0.43	-55.19	-13.00	42.19
578.88	V	20.80	-50.90	0.00	0.46	-51.36	-13.00	38.36
1413.000	H	44.31	-59.36	8.26	0.72	-51.82	-13.00	38.82
1413.000	V	42.64	-61.08	8.26	0.72	-53.54	-13.00	40.54
2119.500	H	41.35	-60.62	9.17	0.92	-52.37	-13.00	39.37
2119.500	V	40.03	-61.92	9.17	0.92	-53.67	-13.00	40.67
2826.000	H	34.62	-65.19	9.92	1.06	-56.33	-13.00	43.33
2826.000	V	34.71	-65.03	9.92	1.06	-56.17	-13.00	43.17
5MHz, QPSK, Frequency:710 MHz								
582.95	H	20.90	-53.30	0.00	0.46	-53.76	-13.00	40.76
467.50	V	20.58	-52.29	0.00	0.43	-52.72	-13.00	39.72
1420.000	H	44.51	-59.15	8.28	0.73	-51.60	-13.00	38.60
1420.000	V	43.79	-59.92	8.28	0.73	-52.37	-13.00	39.37
2130.000	H	41.65	-60.37	9.18	0.92	-52.11	-13.00	39.11
2130.000	V	41.05	-60.96	9.18	0.92	-52.70	-13.00	39.70
2840.000	H	34.69	-65.06	9.94	1.06	-56.18	-13.00	43.18
2840.000	V	35.01	-64.70	9.94	1.06	-55.82	-13.00	42.82
5MHz, QPSK, Frequency: 713.5 MHz								
620.89	H	20.69	-53.06	0.00	0.49	-53.55	-13.00	40.55
291.34	V	20.60	-57.37	0.00	0.33	-57.70	-13.00	44.70
1427.000	H	44.69	-58.95	8.30	0.73	-51.38	-13.00	38.38
1427.000	V	43.36	-60.33	8.30	0.73	-52.76	-13.00	39.76
2140.500	H	42.27	-59.80	9.18	0.93	-51.55	-13.00	38.55
2140.500	V	41.17	-60.91	9.18	0.93	-52.66	-13.00	39.66
2854.000	H	35.03	-64.66	9.97	1.07	-55.76	-13.00	42.76
2854.000	V	34.62	-65.06	9.97	1.07	-56.16	-13.00	43.16

LTE Band 25 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz, QPSK, Frequency: 1850.7 MHz								
74.09	H	29.31	-76.92	-2.96	0.16	-80.04	-13.00	67.04
43.35	V	35.47	-58.69	-21.98	0.12	-80.79	-13.00	67.79
3700.800	H	37.49	-59.83	10.60	1.25	-50.48	-13.00	37.48
3700.800	V	37.24	-60.06	10.60	1.25	-50.71	-13.00	37.71
5551.200	H	36.53	-56.73	11.44	1.49	-46.78	-13.00	33.78
5551.200	V	36.41	-56.69	11.44	1.49	-46.74	-13.00	33.74
1.4MHz, QPSK, Frequency:1882.5 MHz								
52.93	H	28.89	-72.86	-13.55	0.13	-86.54	-13.00	73.54
44.58	V	35.56	-60.20	-20.35	0.12	-80.67	-13.00	67.67
3765.000	H	37.84	-58.49	10.67	1.25	-49.07	-13.00	36.07
3765.000	V	37.69	-58.52	10.67	1.25	-49.10	-13.00	36.10
5647.500	H	36.97	-56.48	11.32	1.55	-46.71	-13.00	33.71
5647.500	V	37.11	-56.22	11.32	1.55	-46.45	-13.00	33.45
1.4MHz, QPSK, Frequency: 1914.3 MHz								
587.38	H	29.13	-75.94	0.00	0.47	-76.41	-13.00	63.41
43.65	V	34.84	-59.71	-21.58	0.12	-81.41	-13.00	68.41
3828.600	H	36.97	-58.93	10.73	1.28	-49.48	-13.00	36.48
3828.600	V	37.29	-58.48	10.73	1.28	-49.03	-13.00	36.03
5742.900	H	37.11	-56.37	11.21	1.60	-46.76	-13.00	33.76
5742.900	V	36.94	-56.42	11.21	1.60	-46.81	-13.00	33.81