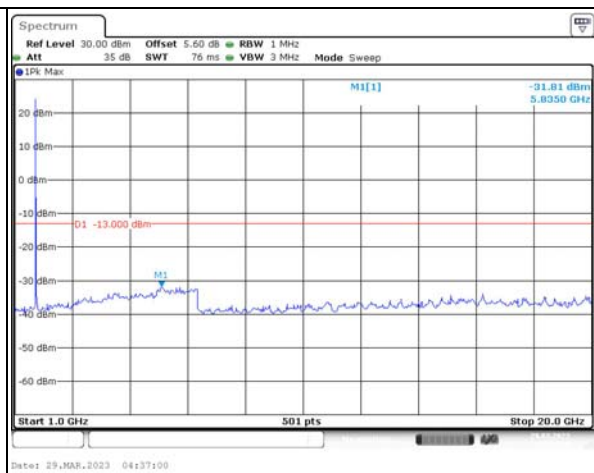
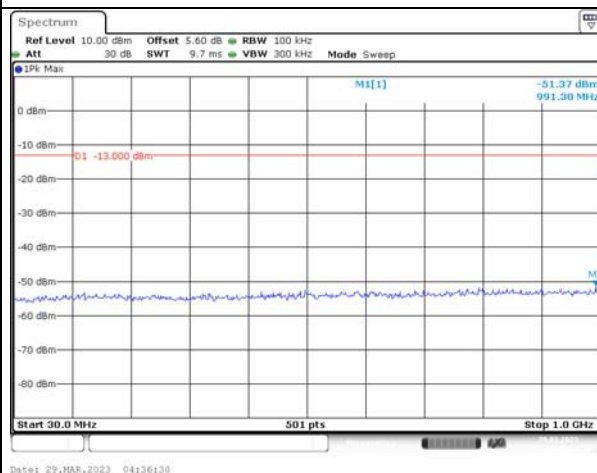


Spurious Emissions at Antenna Terminal

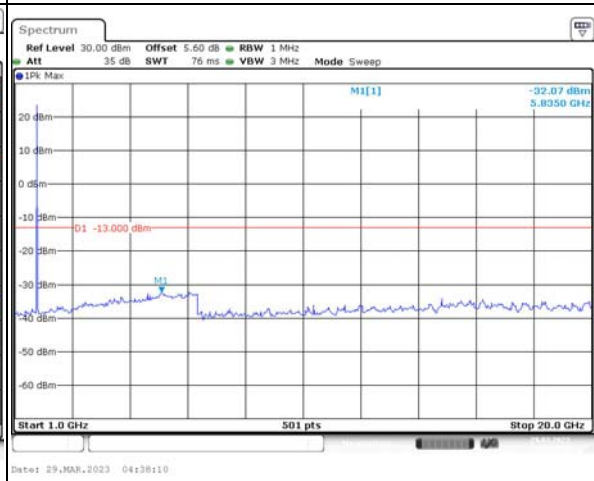
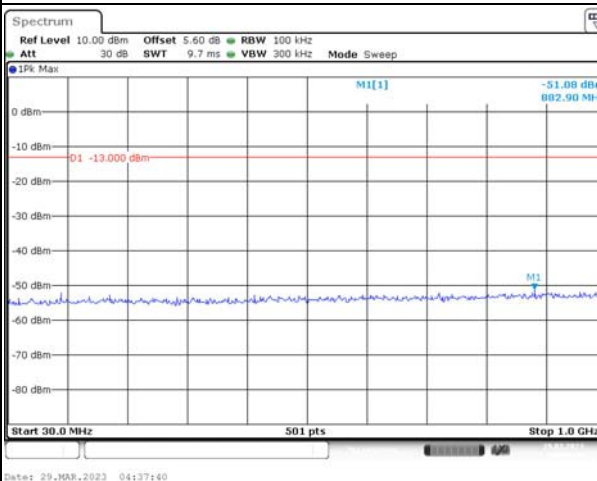
Channel

3MHz Bandwidth QPSK

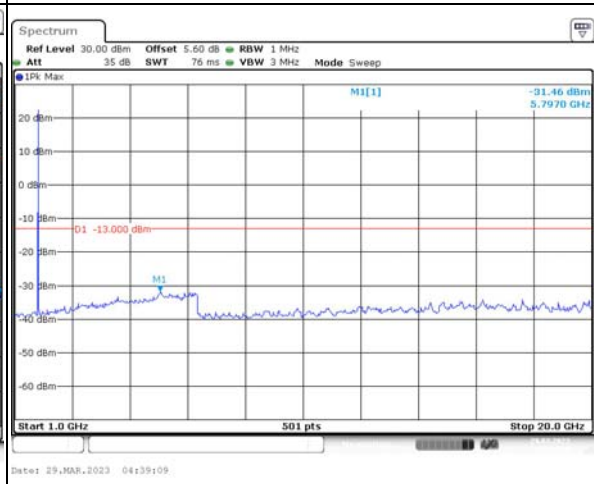
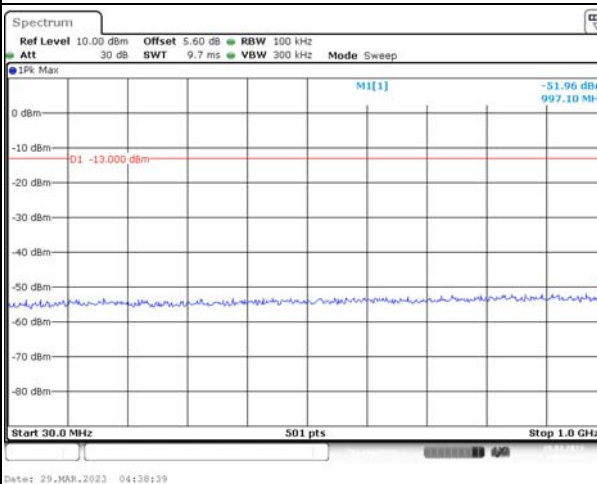
Lowest



Middle



Highest

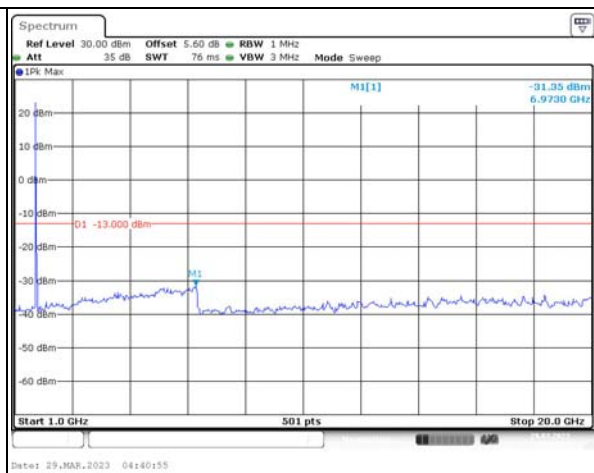
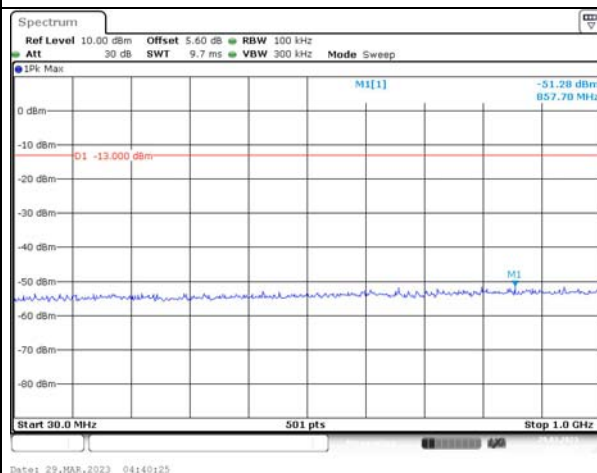


Spurious Emissions at Antenna Terminal

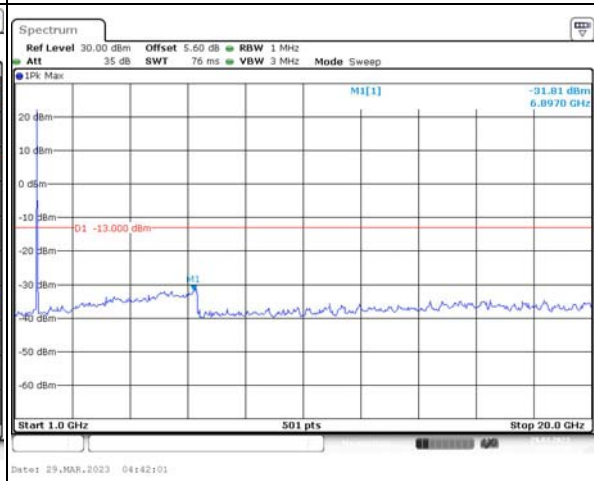
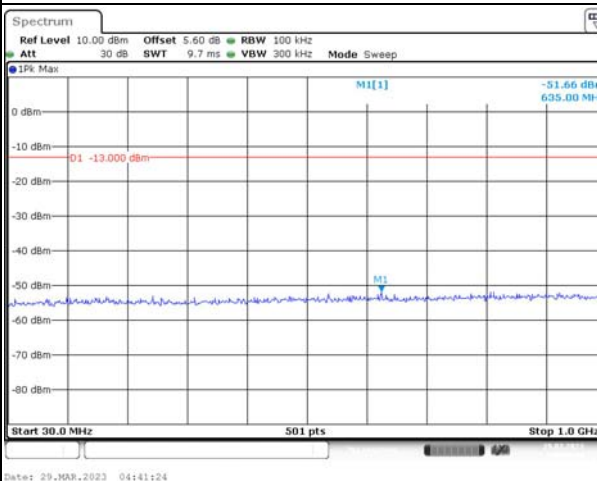
Channel

5MHz Bandwidth QPSK

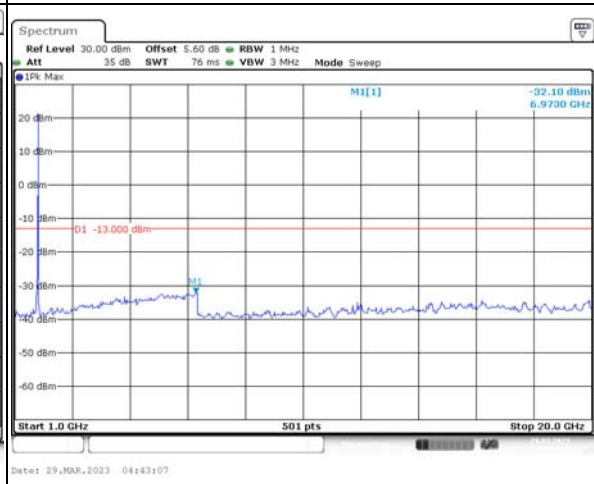
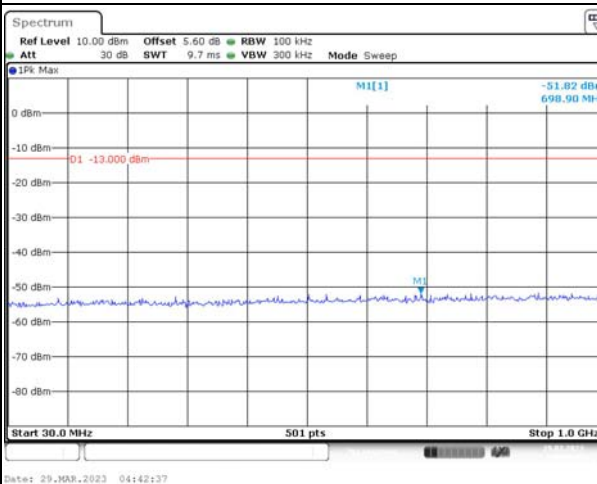
Lowest



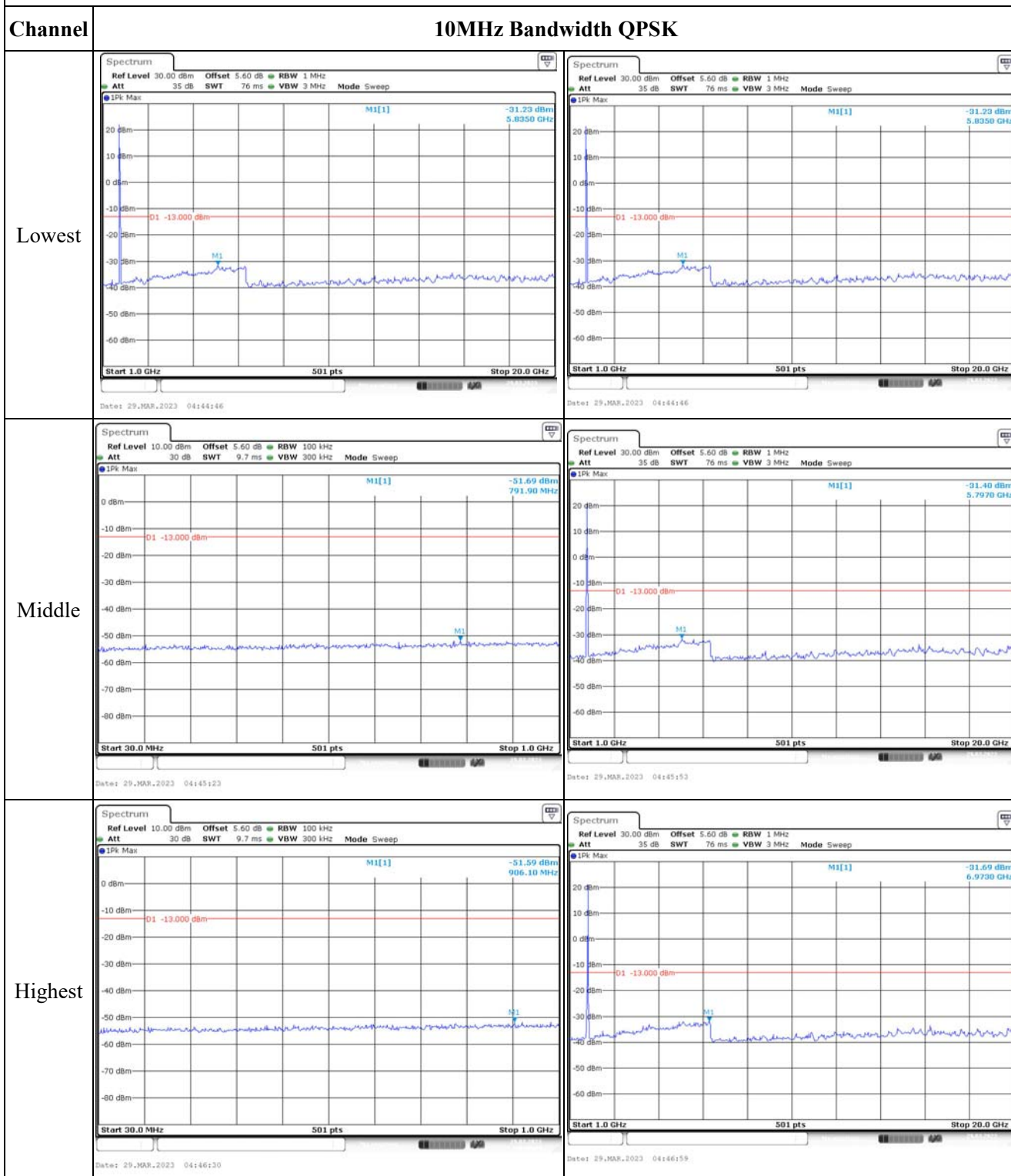
Middle



Highest



Spurious Emissions at Antenna Terminal

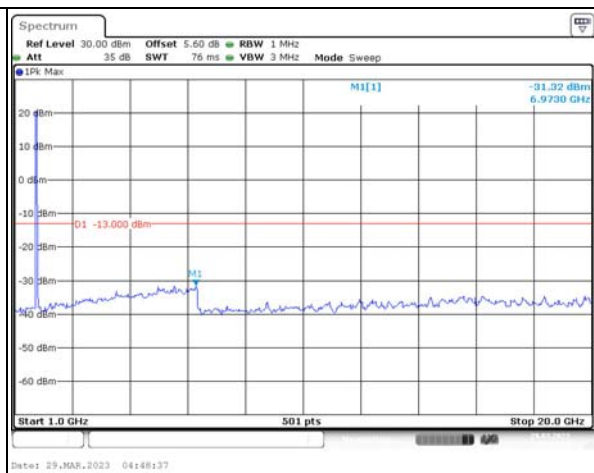
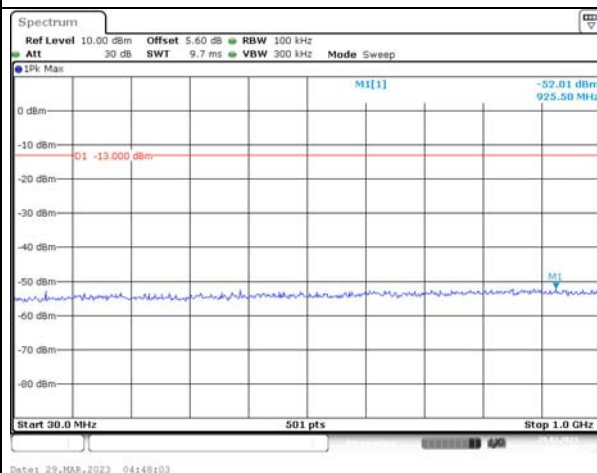


Spurious Emissions at Antenna Terminal

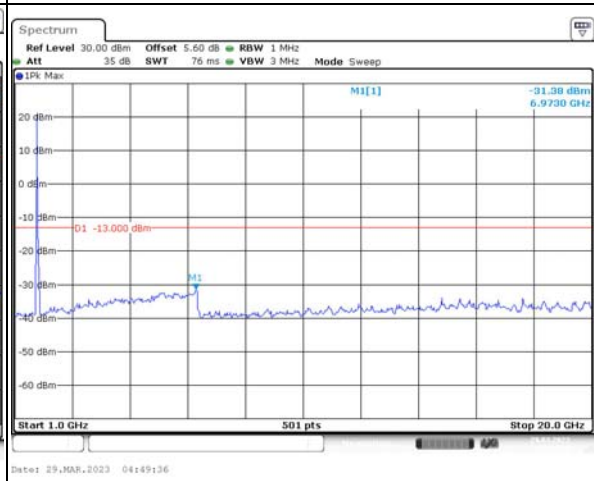
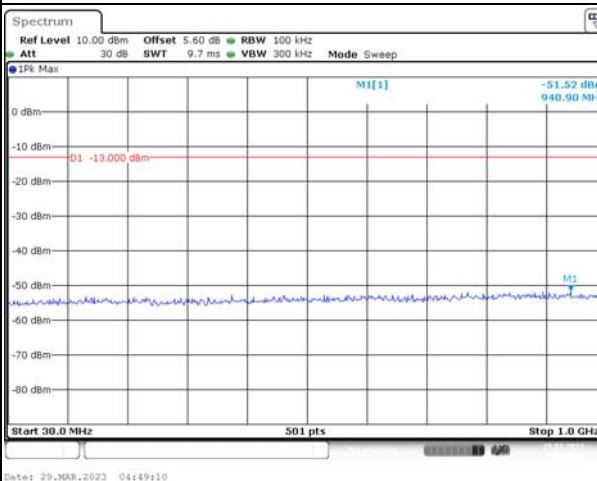
Channel

15MHz Bandwidth QPSK

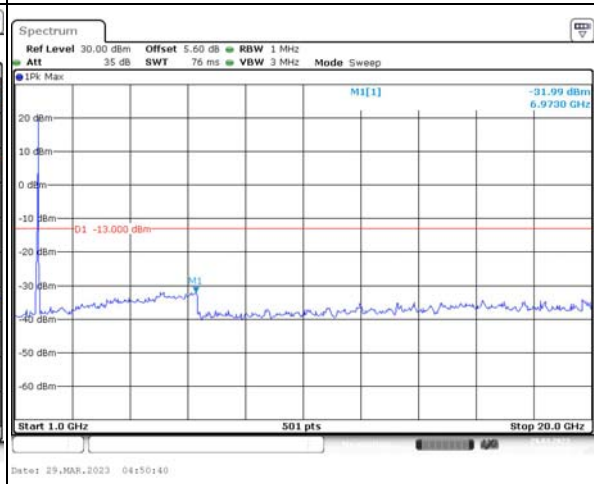
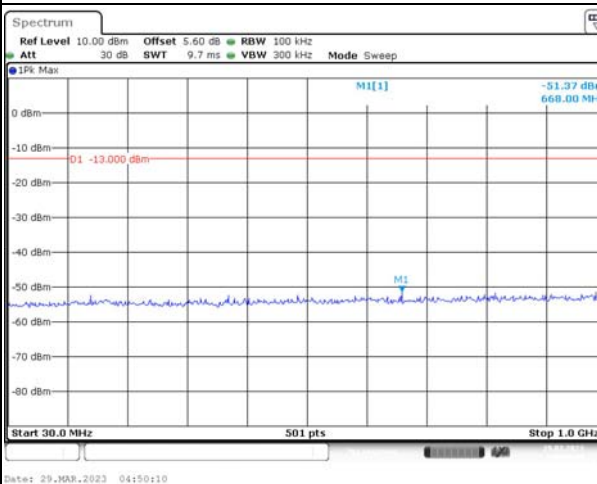
Lowest



Middle



Highest

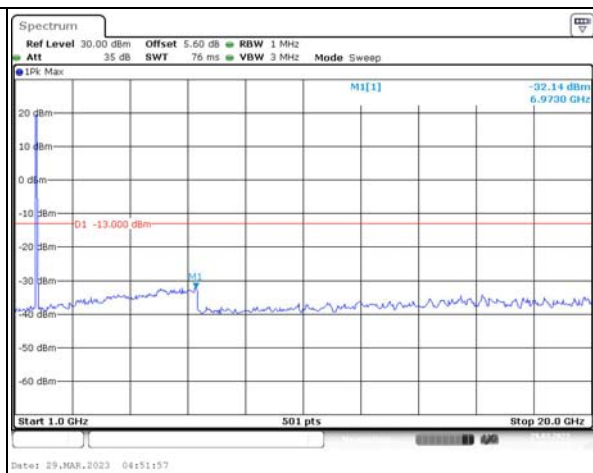
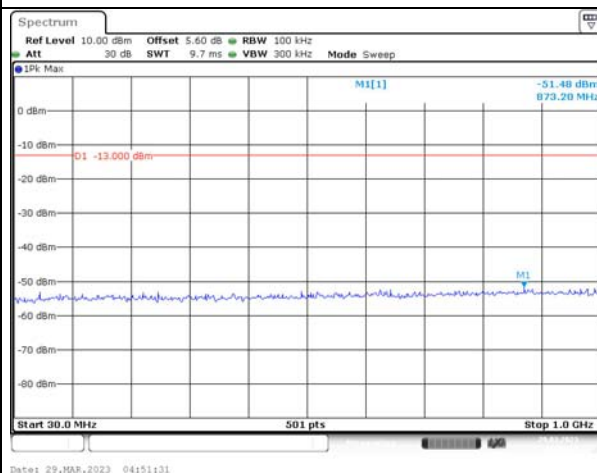


Spurious Emissions at Antenna Terminal

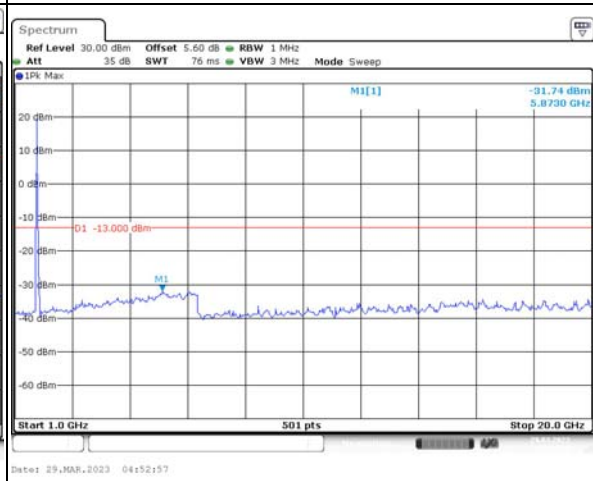
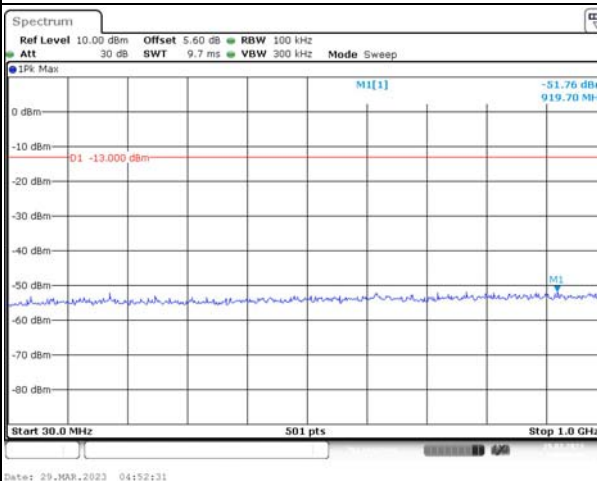
Channel

20MHz Bandwidth QPSK

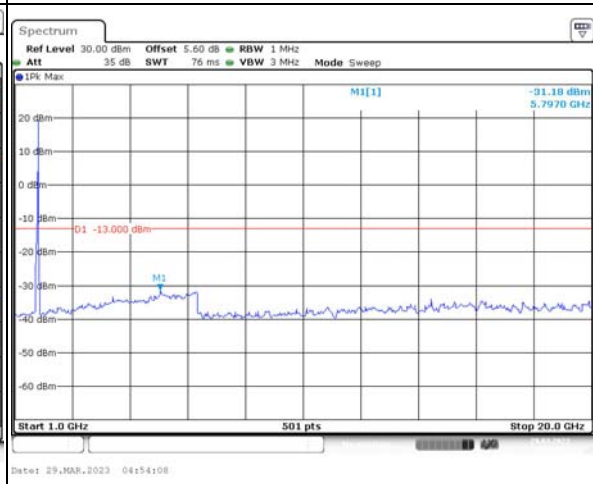
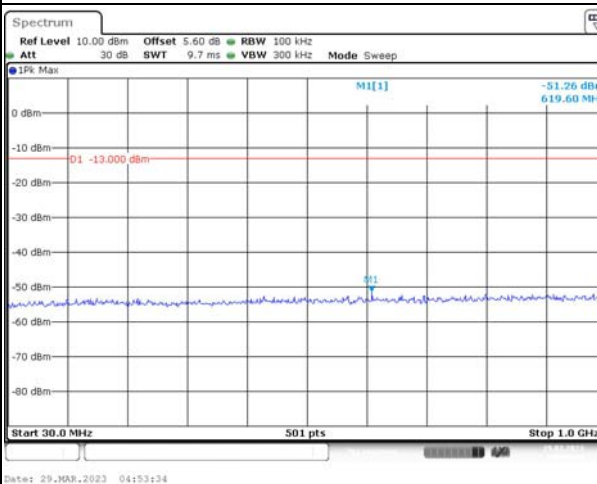
Lowest



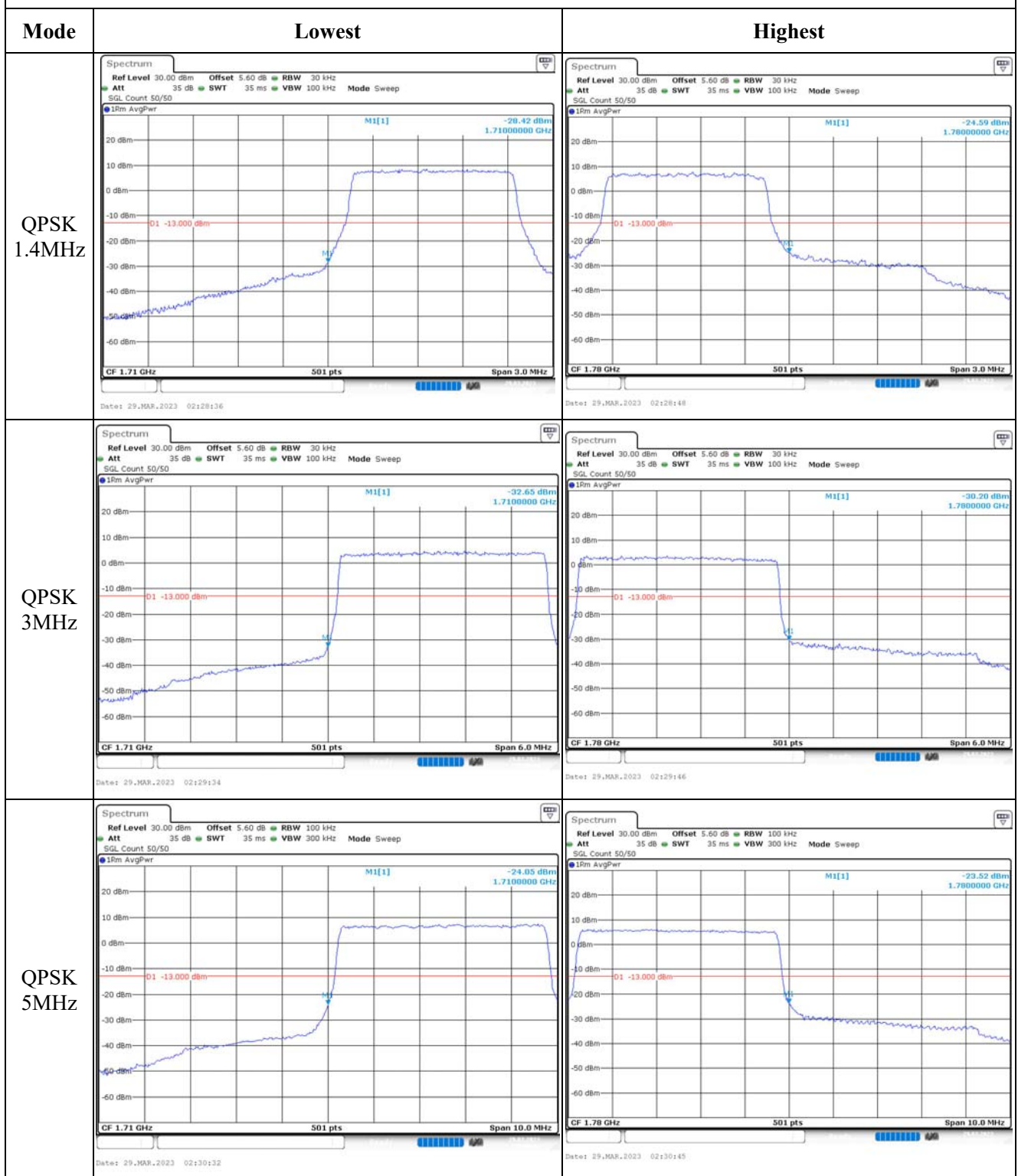
Middle



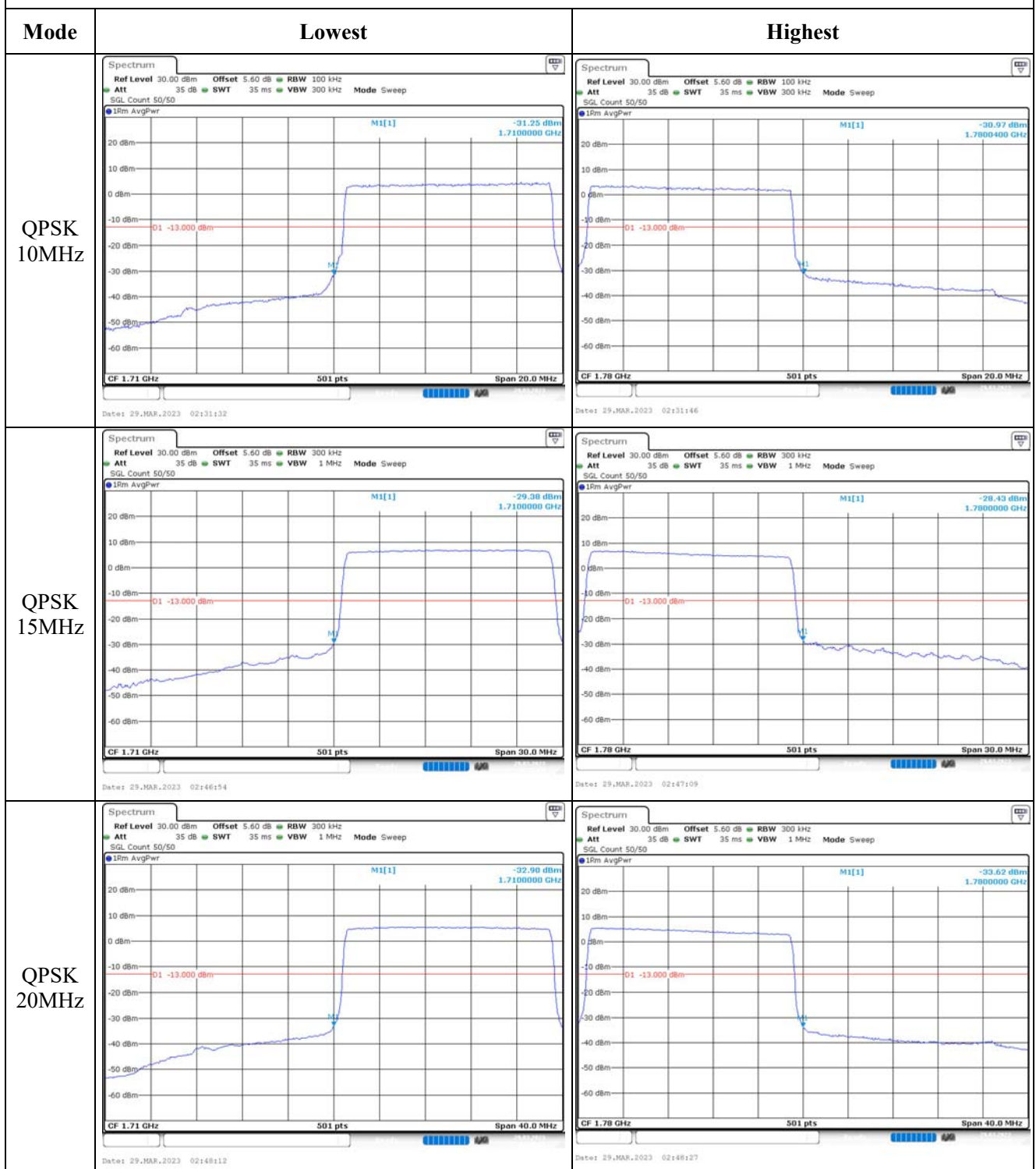
Highest



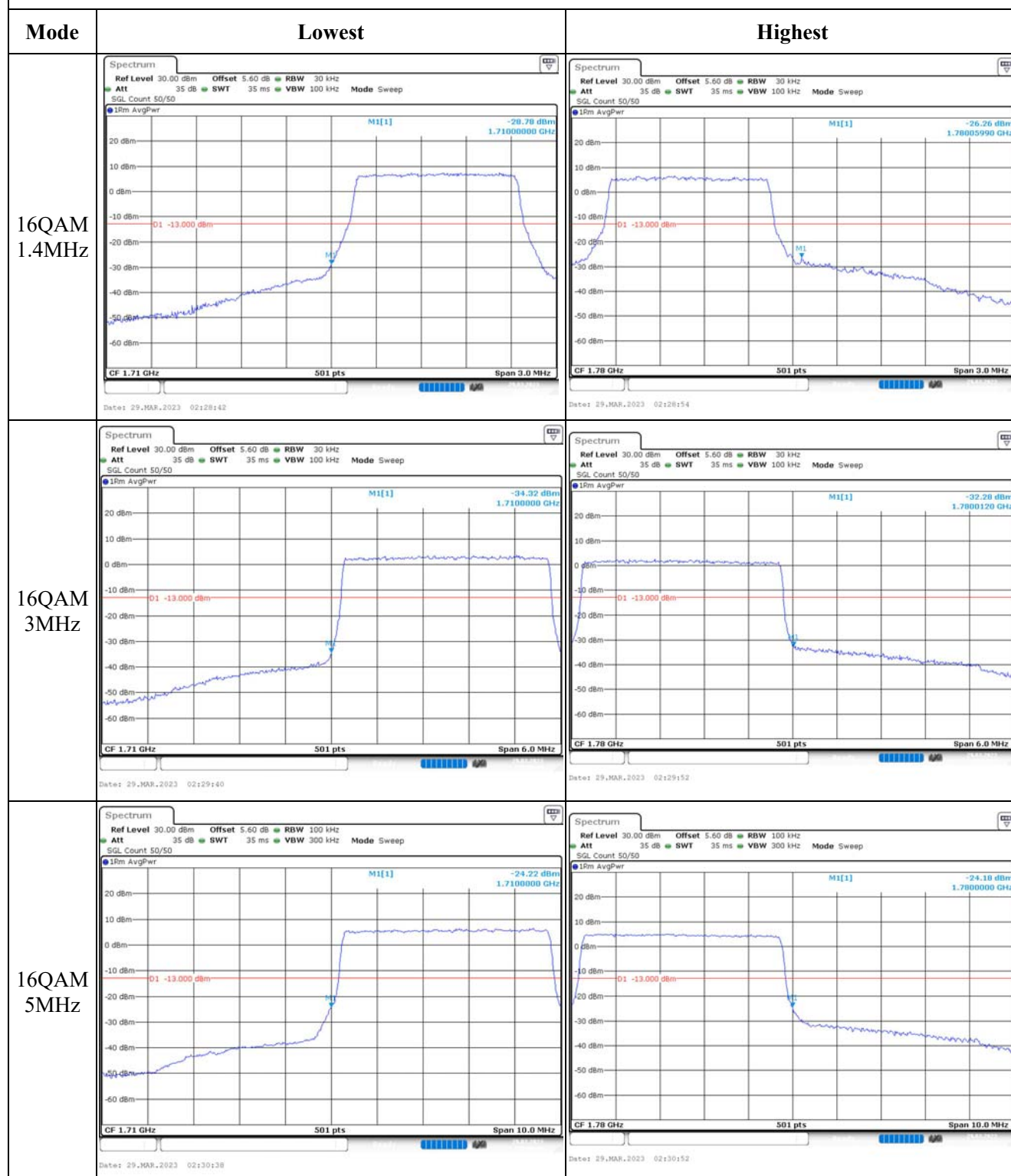
Out of band emission, Band Edge



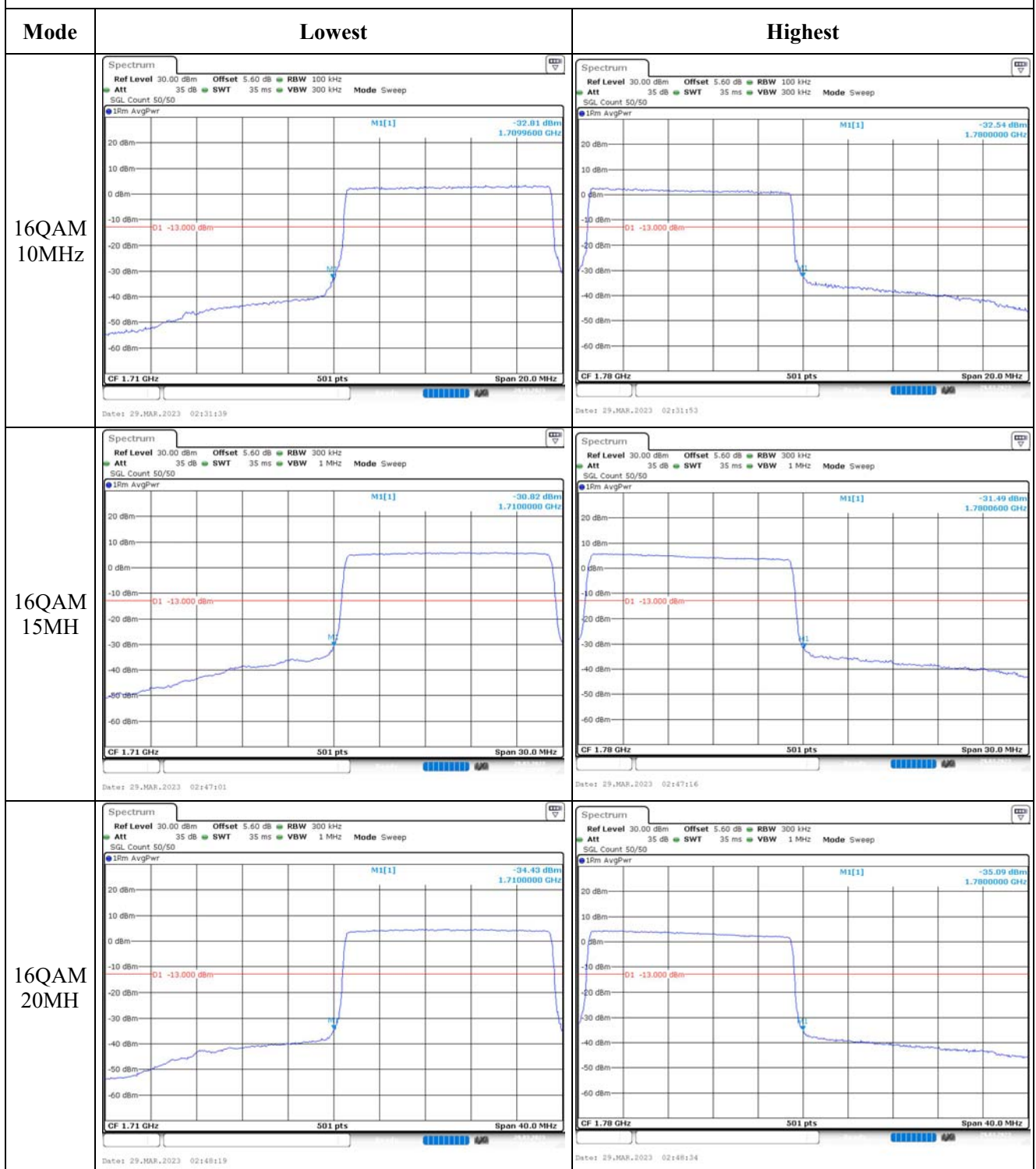
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.13 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	23CF-1	Test Date:	2023/3/29~2023/4/12
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.3~25.6	Relative Humidity: (%)	26~45	ATM Pressure: (kPa)	100.3~101.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/3/31	2023/3/30
R&S	Spectrum Analyzer	FSV40	101474	2022/7/15	2023/7/14
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	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	21.02	21.28	21.9	16.71	34.77
	RB1#13	21.11	21.53	22.09		
	RB1#24	21.07	21.52	22.09		
	RB15#0	20.08	20.59	21.07		
	RB15#10	19.91	20.41	20.98		
	RB25#0	19.93	20.46	20.93		
5MHz 16QAM	RB1#0	20.21	20.27	20.92	15.68	34.77
	RB1#13	20.34	20.53	21.05		
	RB1#24	20.29	20.55	21.06		
	RB15#0	18.97	19.57	20.04		
	RB15#10	18.85	19.35	19.92		
	RB25#0	18.93	19.43	19.93		
10MHz QPSK	RB1#0	21.06	21.3	21.73	16.78	34.77
	RB1#25	21.29	21.65	22.11		
	RB1#49	21.24	21.74	22.16		
	RB25#0	20.3	20.58	20.73		
	RB25#25	20.32	20.51	20.9		
	RB50#0	20.32	20.59	20.84		
10MHz 16QAM	RB1#0	19.98	20.22	21.21	16.16	34.77
	RB1#25	20.26	20.58	21.54		
	RB1#49	20.16	20.68	21.52		
	RB25#0	19.36	19.64	19.73		
	RB25#25	19.38	19.55	19.87		
	RB50#0	19.26	19.54	19.78		
15MHz QPSK	RB1#0	20.93	21.09	21.53	16.75	34.77
	RB1#38	21.19	21.56	21.98		
	RB1#74	21.36	21.76	22.13		
	RB36#0	20.3	20.45	20.71		
	RB36#39	20.54	20.69	21.11		
	RB75#0	20.47	20.57	20.92		
15MHz 16QAM	RB1#0	20.21	20.15	20.77	15.96	34.77
	RB1#38	20.48	20.6	21.25		
	RB1#74	20.65	20.83	21.34		
	RB36#0	19.25	19.43	19.63		
	RB36#39	19.48	19.68	20.01		
	RB75#0	19.37	19.48	19.83		
20MHz QPSK	RB1#0	20.65	20.79	21.1	16.67	34.77
	RB1#50	21.34	21.61	22.05		
	RB1#99	21.33	21.71	21.97		

20MHz 16QAM	RB50#0	20.22	20.16	20.84	15.84	34.77
	RB50#50	20.26	20.7	21.24		
	RB100#0	20.21	20.49	20.98		
	RB1#0	20.15	20.26	20.18		
	RB1#50	20.8	21.08	21.16		
	RB1#99	20.8	21.22	21.04		
	RB50#0	19.19	19.11	19.75		
	RB50#50	19.2	19.66	20.16		
	RB100#0	19.16	19.41	19.94		

Note:

ERP= Conducted Power(dBm) - L_c(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	4.96	5.51	4.55	13
	RB100#0	4.29	4.32	4.26	13
20MHz 16QAM	RB1#0	6.06	6.09	5.33	13
	RB100#0	5.71	5.77	5.71	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	4.511	4.551	5.14	5.18	5.2
5MHz 16QAM	4.511	4.571	4.511	5.14	5.2	5.12
10MHz QPSK	8.982	8.982	8.942	9.88	9.88	9.88
10MHz 16QAM	8.982	8.982	8.902	9.92	9.8	9.8
15MHz QPSK	13.593	13.533	13.473	15.24	15.12	15.12
15MHz 16QAM	13.593	13.533	13.473	15.06	14.94	14.94
20MHz QPSK	17.964	17.964	18.044	19.44	19.52	20.16
20MHz 16QAM	17.964	17.964	17.964	19.76	19.6	19.84

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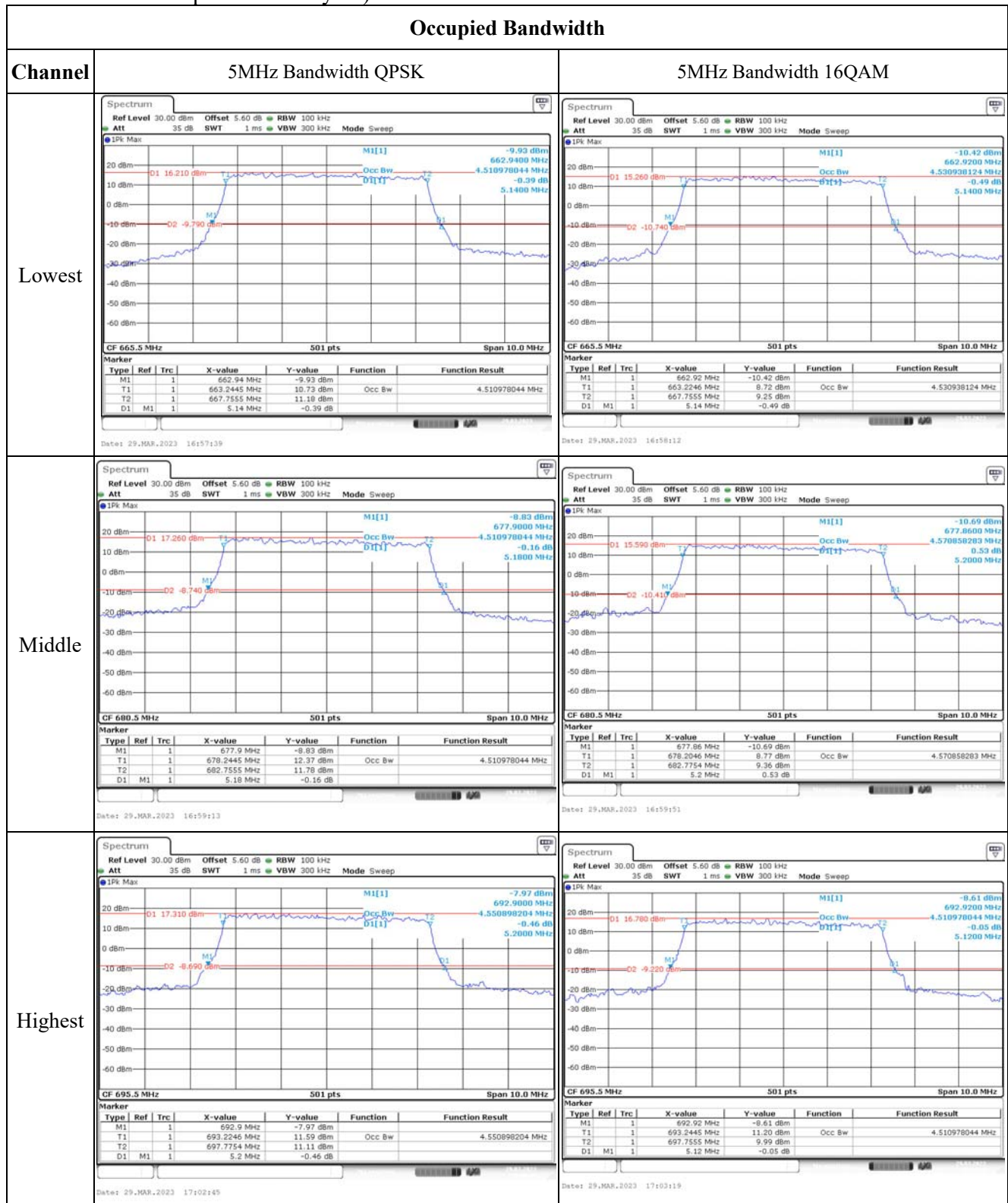
FCC §2.1051, §27.53:Out of band emission, Band Edge

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	3.8	664.079	663.00	697.052	698.00
	-20	3.8	664.061	663.00	697.046	698.00
	-10	3.8	664.073	663.00	697.031	698.00
	0	3.8	664.085	663.00	697.045	698.00
	10	3.8	664.078	663.00	697.058	698.00
	20	3.8	664.086	663.00	697.029	698.00
	30	3.8	664.069	663.00	697.034	698.00
	40	3.8	664.062	663.00	697.055	698.00
	50	3.8	664.072	663.00	697.033	698.00
Frequency Stability vs. Voltage	20	3.6	664.069	663.00	697.049	698.00
	20	4.35	664.083	663.00	697.046	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	3.8	664.006	663.00	697.053	698.00
	-20	3.8	664.028	663.00	697.031	698.00
	-10	3.8	664.015	663.00	697.048	698.00
	0	3.8	664.010	663.00	697.055	698.00
	10	3.8	664.006	663.00	697.031	698.00
	20	3.8	664.029	663.00	697.029	698.00
	30	3.8	664.020	663.00	697.046	698.00
	40	3.8	664.004	663.00	697.033	698.00
	50	3.8	664.004	663.00	697.041	698.00
Frequency Stability vs. Voltage	20	3.6	664.022	663.00	697.057	698.00
	20	4.35	664.025	663.00	697.029	698.00
					Result:	Pass

Test Plots(Note: The 5.6 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):



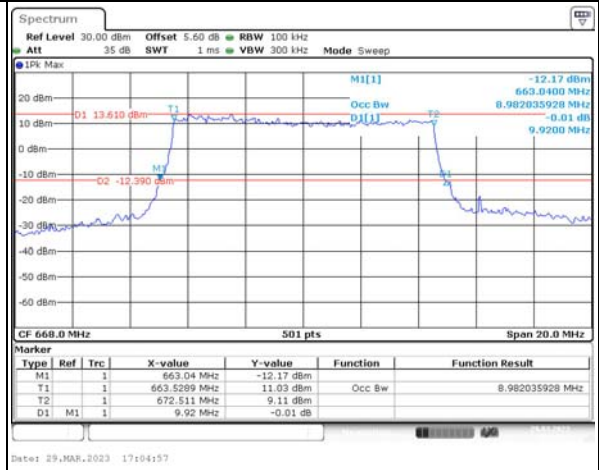
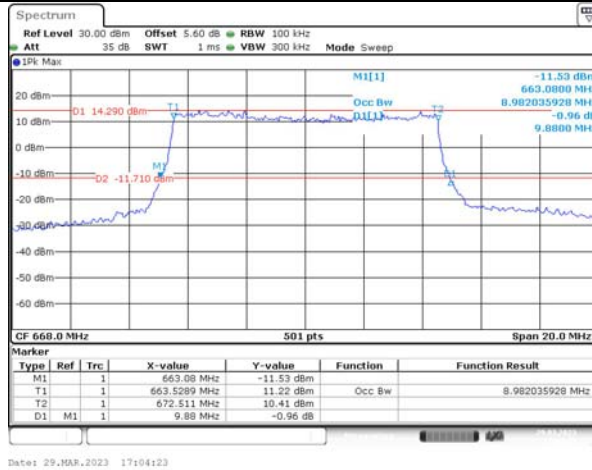
Occupied Bandwidth

Channel

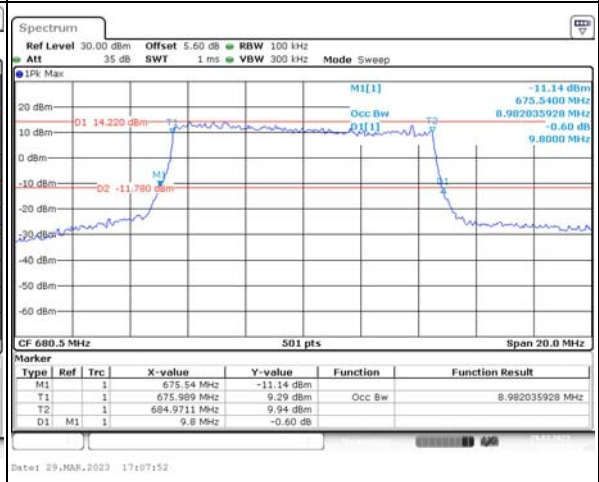
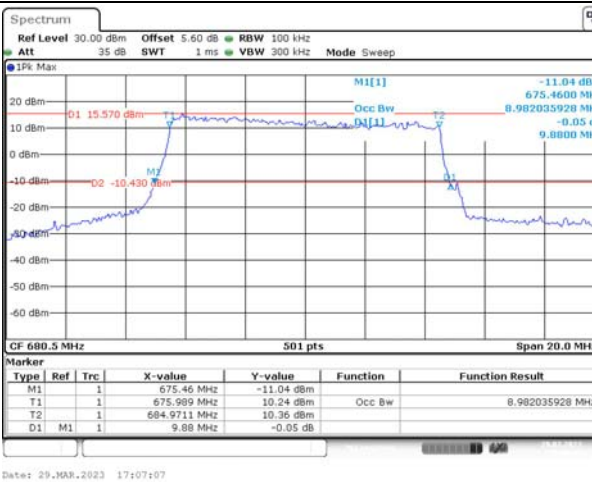
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

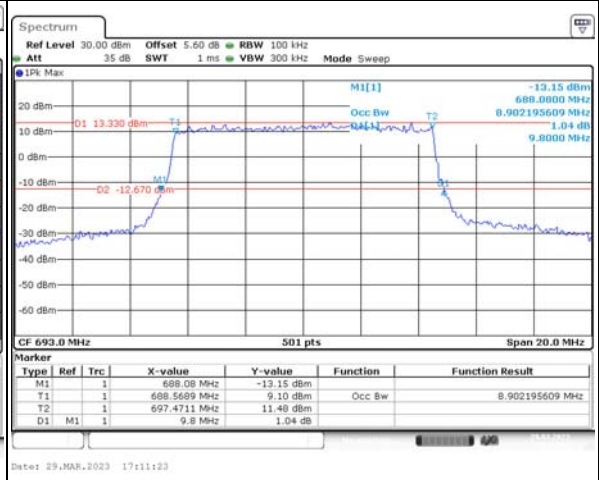
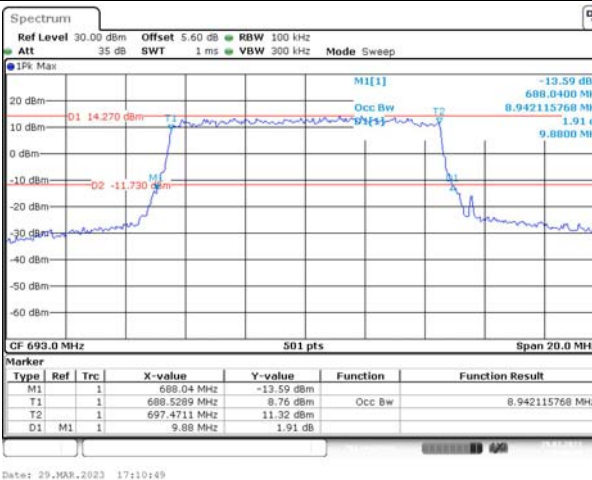
Lowest



Middle



Highest



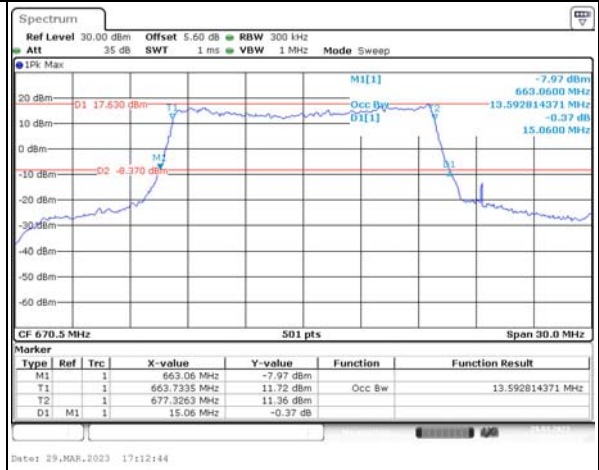
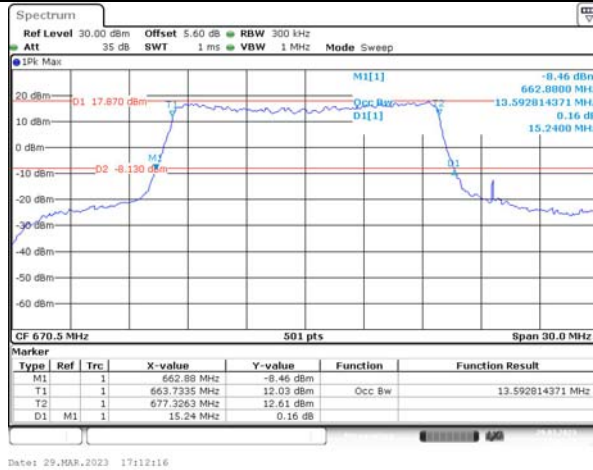
Occupied Bandwidth

Channel

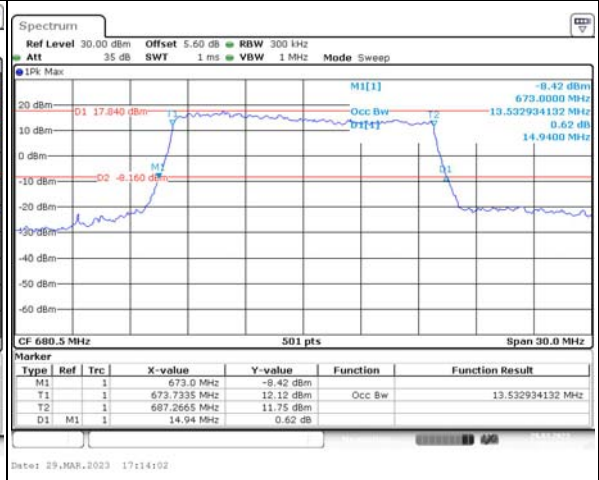
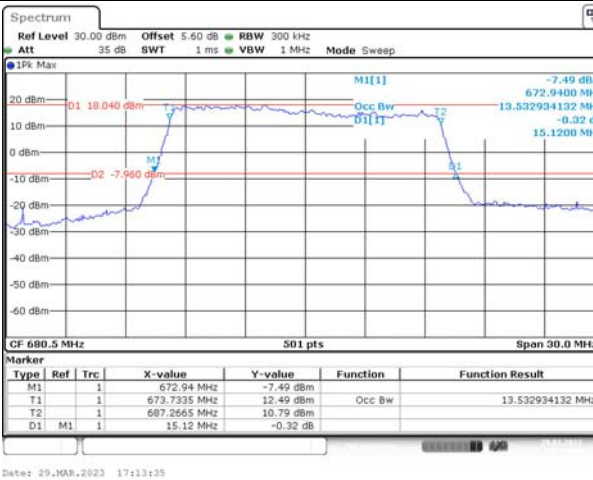
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

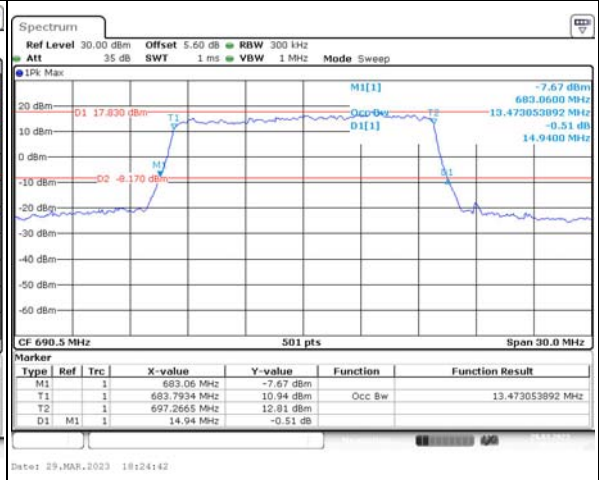
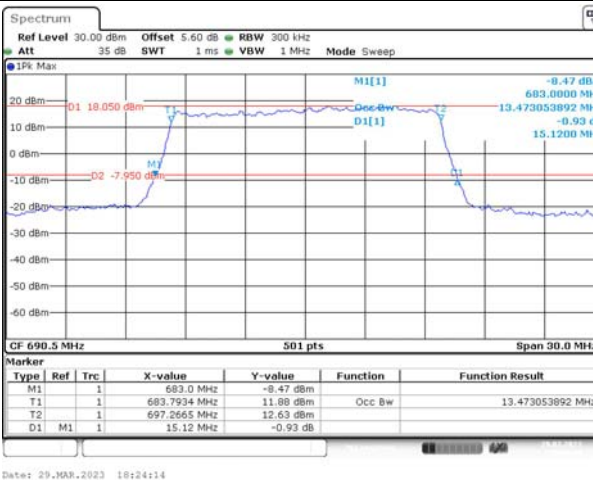
Lowest



Middle



Highest



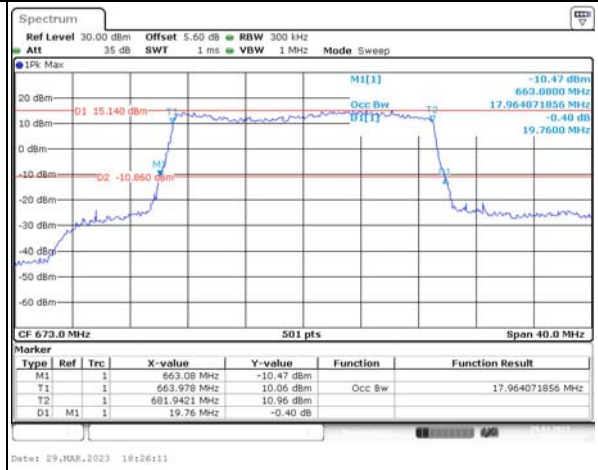
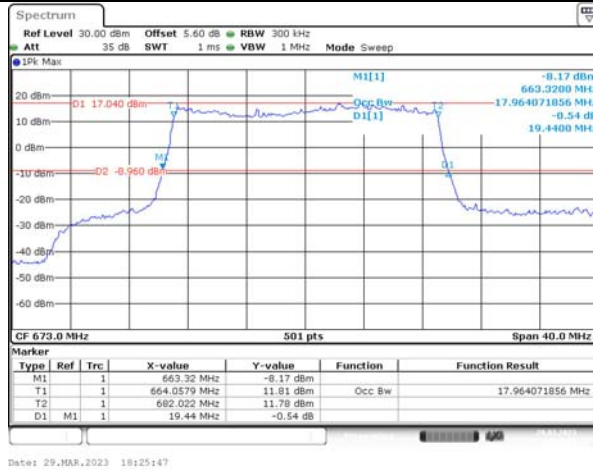
Occupied Bandwidth

Channel

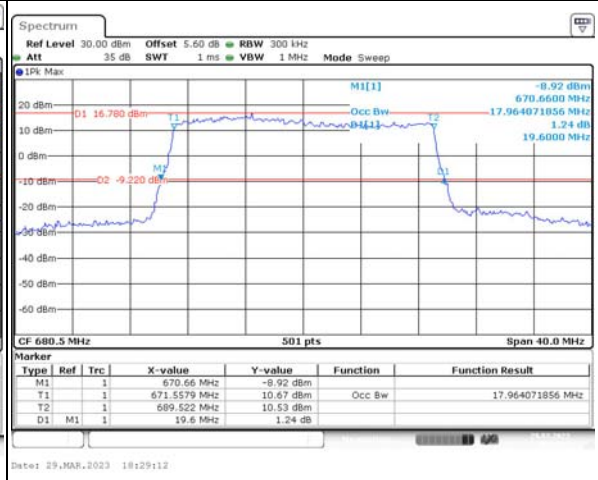
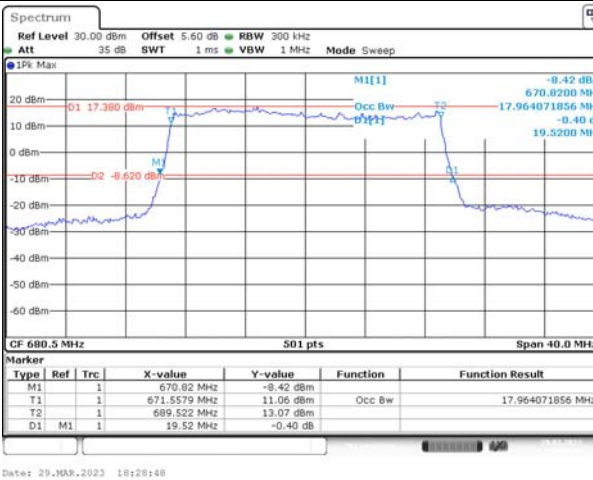
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

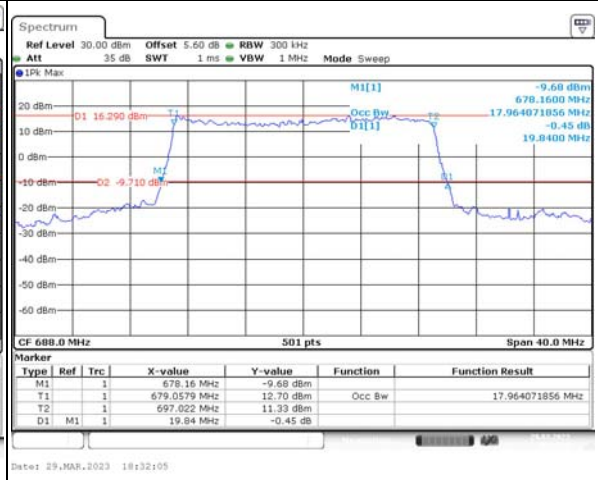
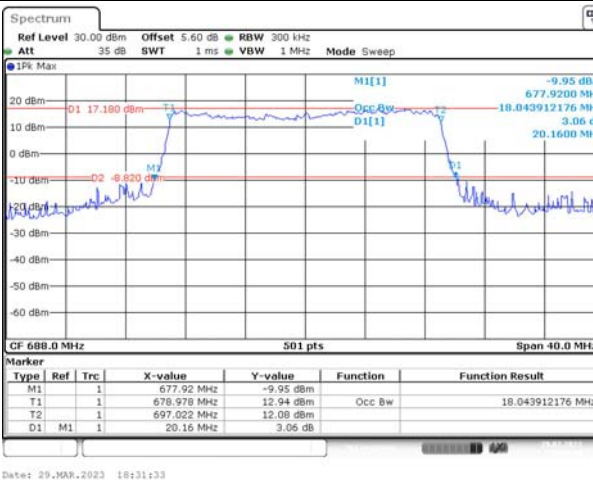
Lowest



Middle



Highest

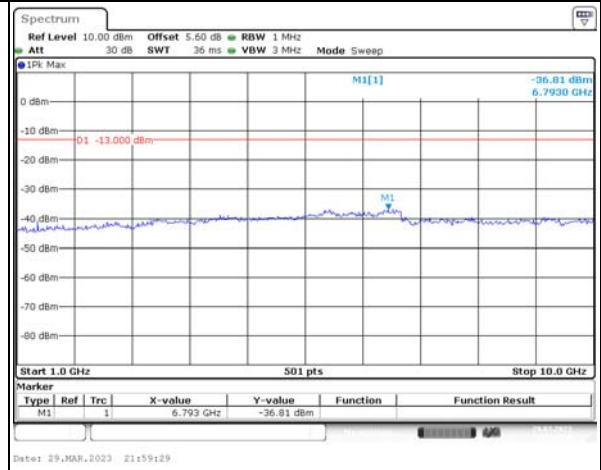
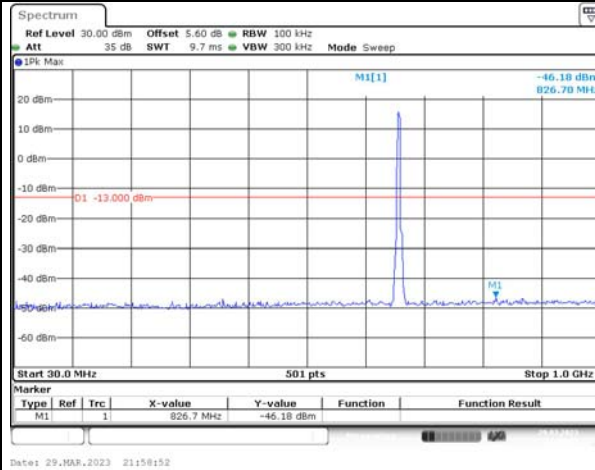


Spurious Emissions at Antenna Terminal

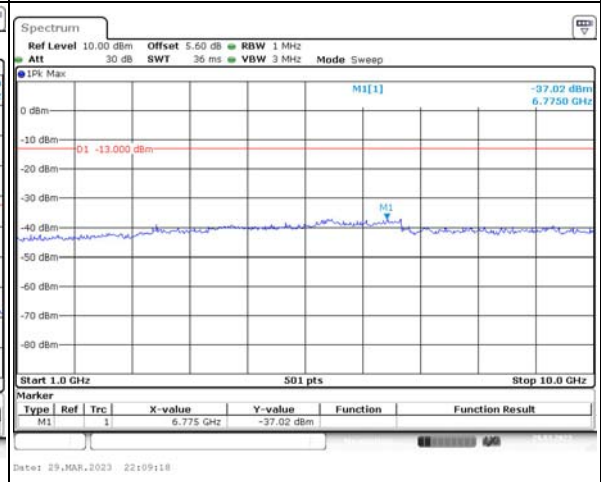
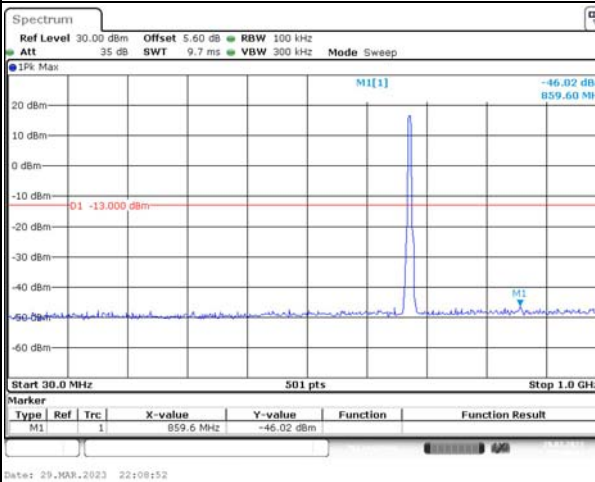
Channel

5MHz Bandwidth QPSK

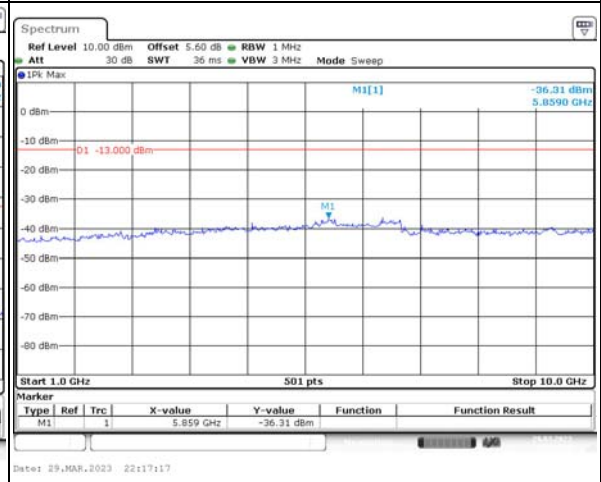
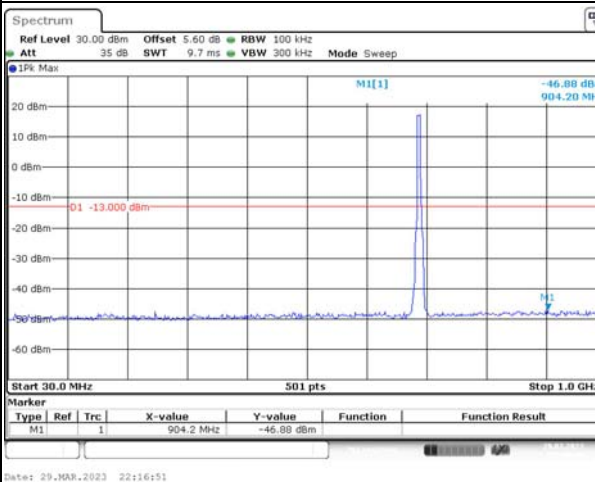
Lowest



Middle



Highest

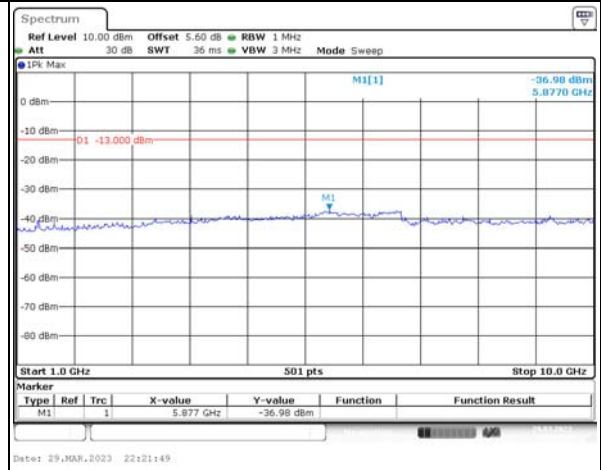
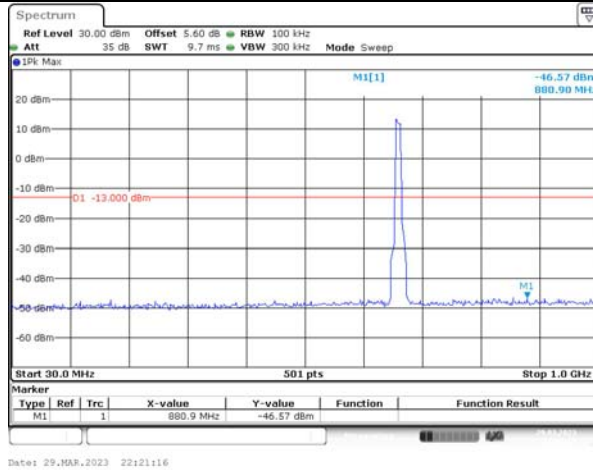


Spurious Emissions at Antenna Terminal

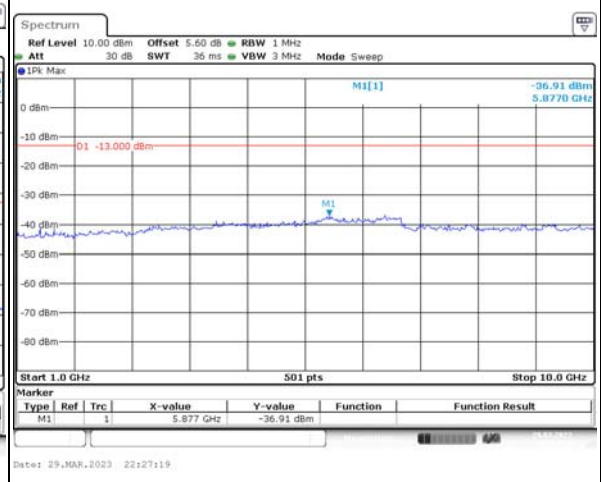
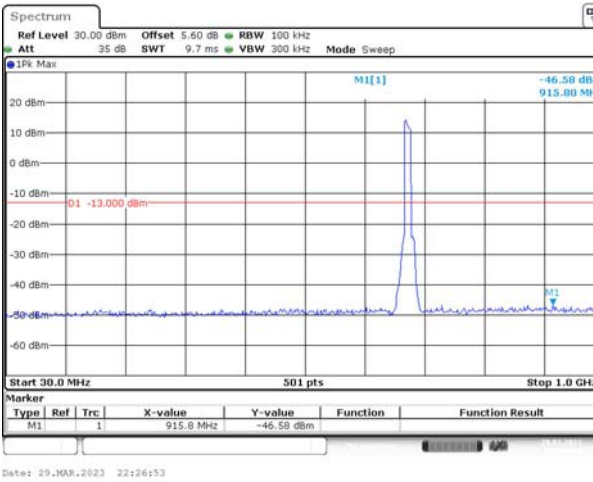
Channel

10MHz Bandwidth QPSK

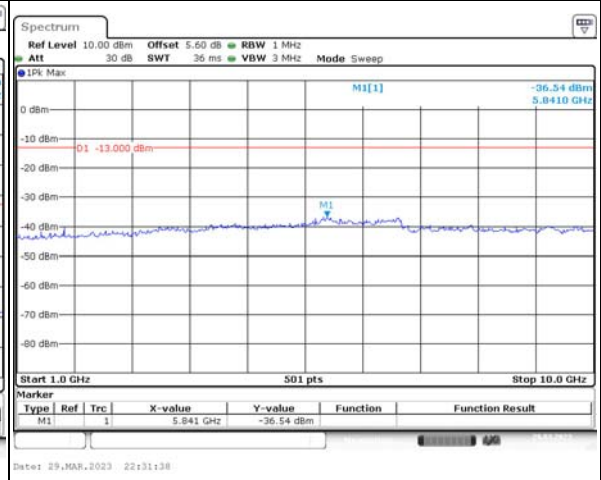
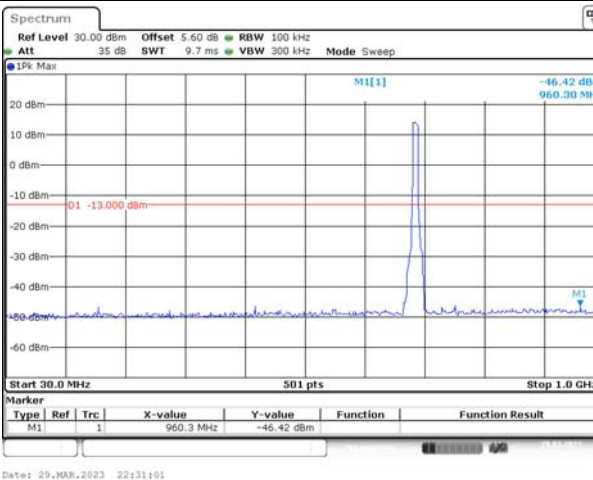
Lowest



Middle



Highest

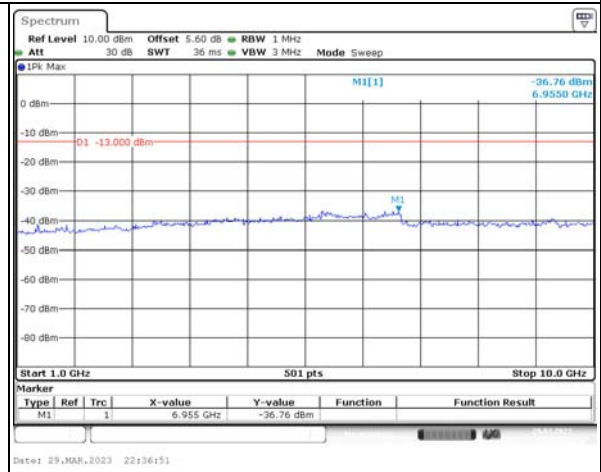
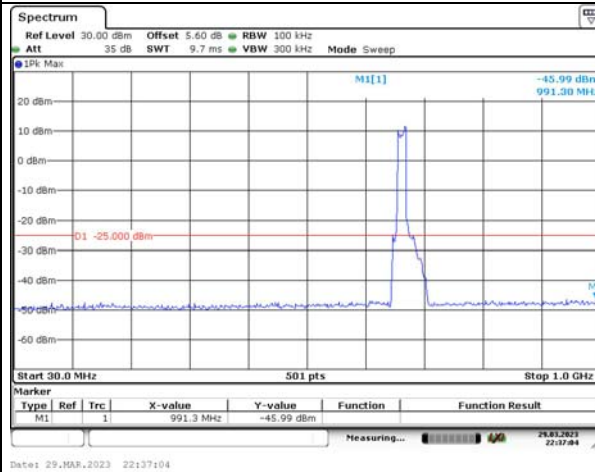


Spurious Emissions at Antenna Terminal

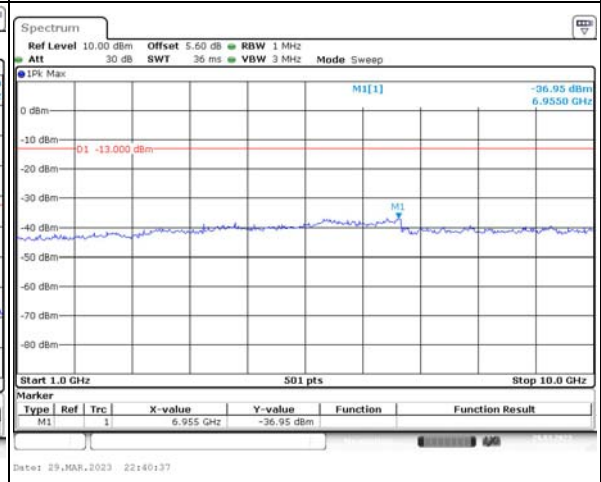
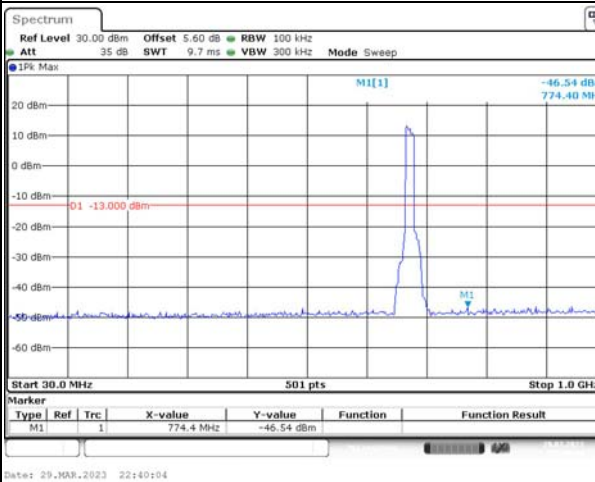
Channel

15MHz Bandwidth QPSK

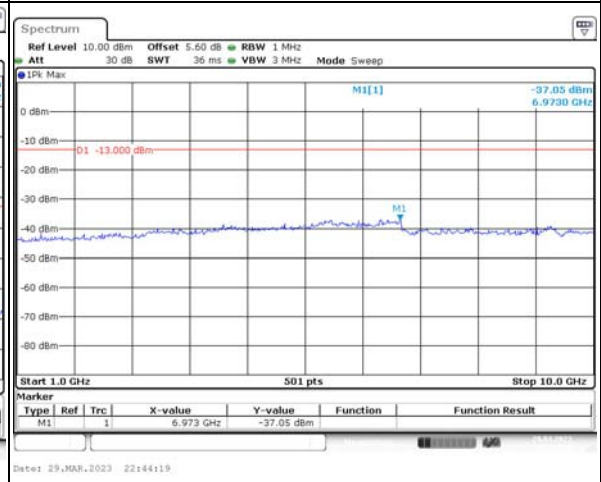
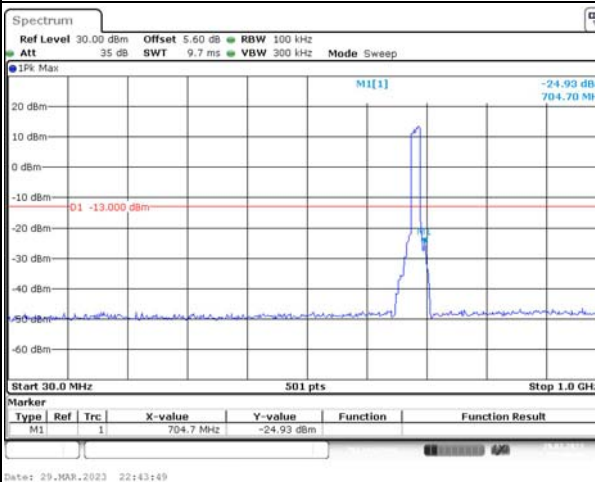
Lowest



Middle



Highest

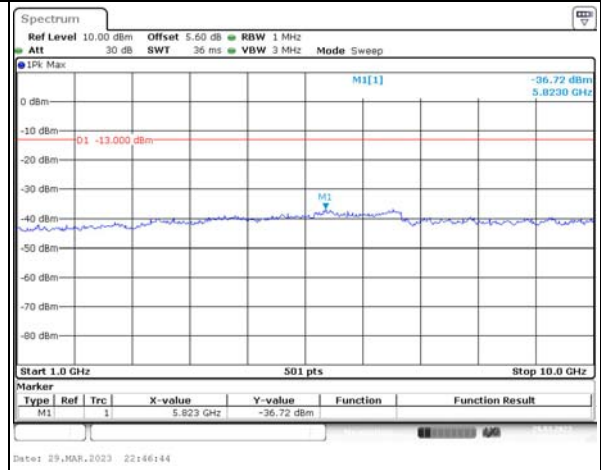
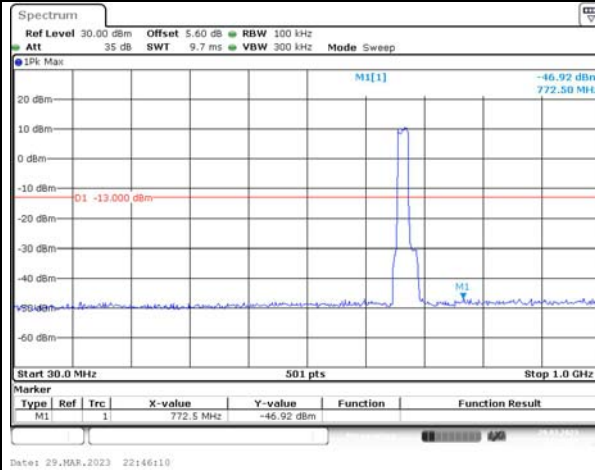


Spurious Emissions at Antenna Terminal

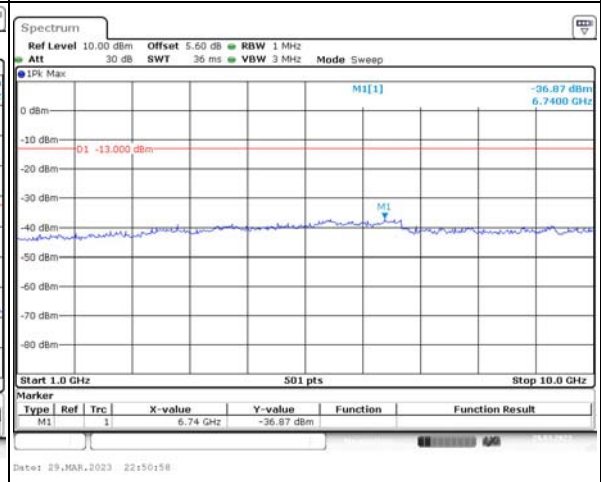
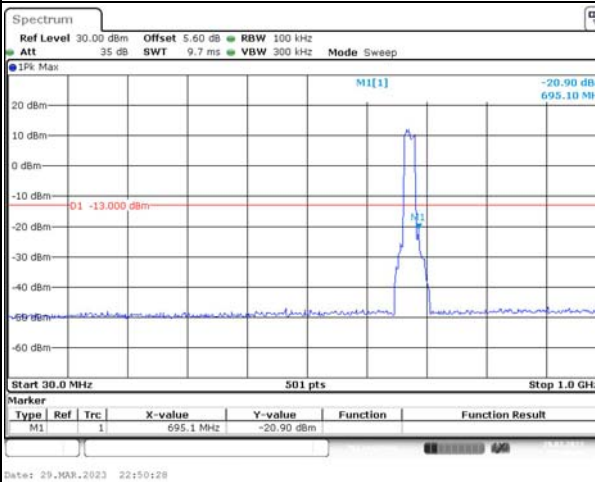
Channel

20MHz Bandwidth QPSK

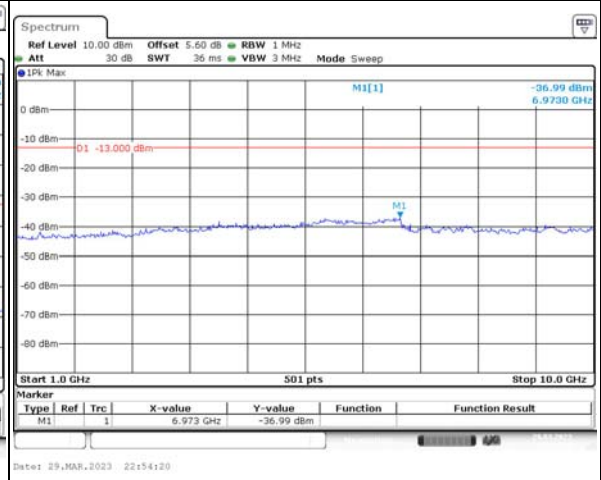
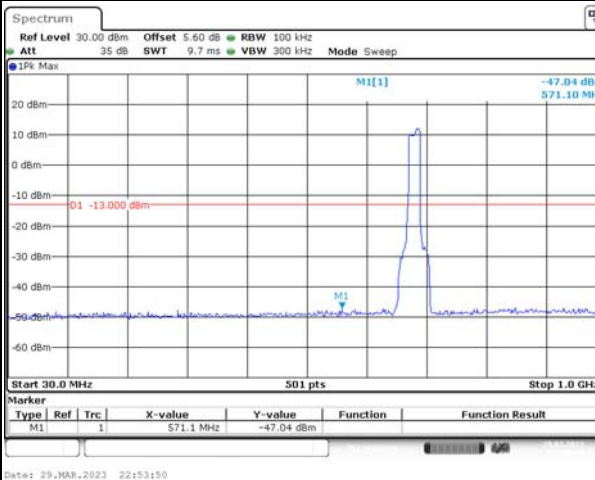
Lowest



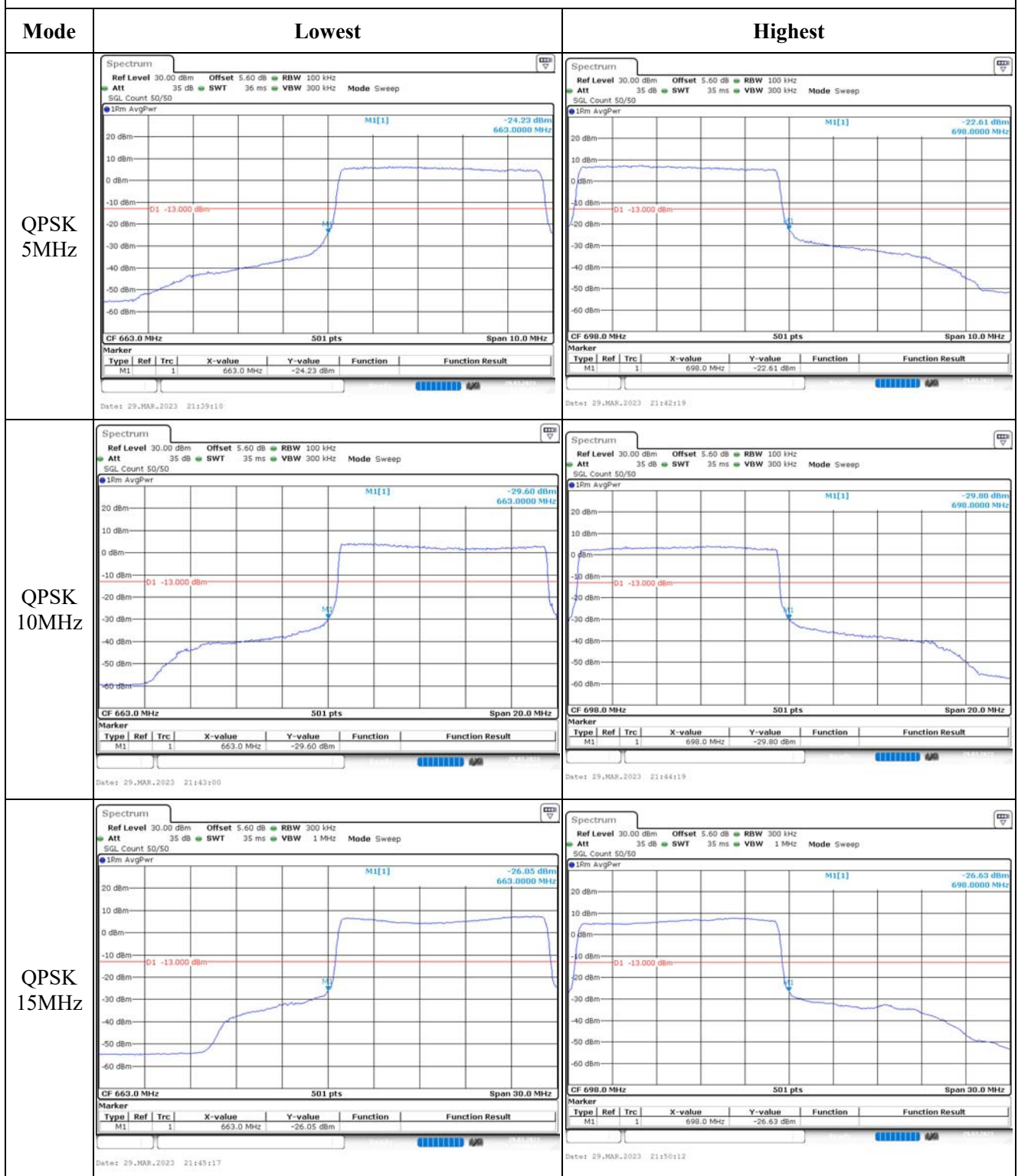
Middle



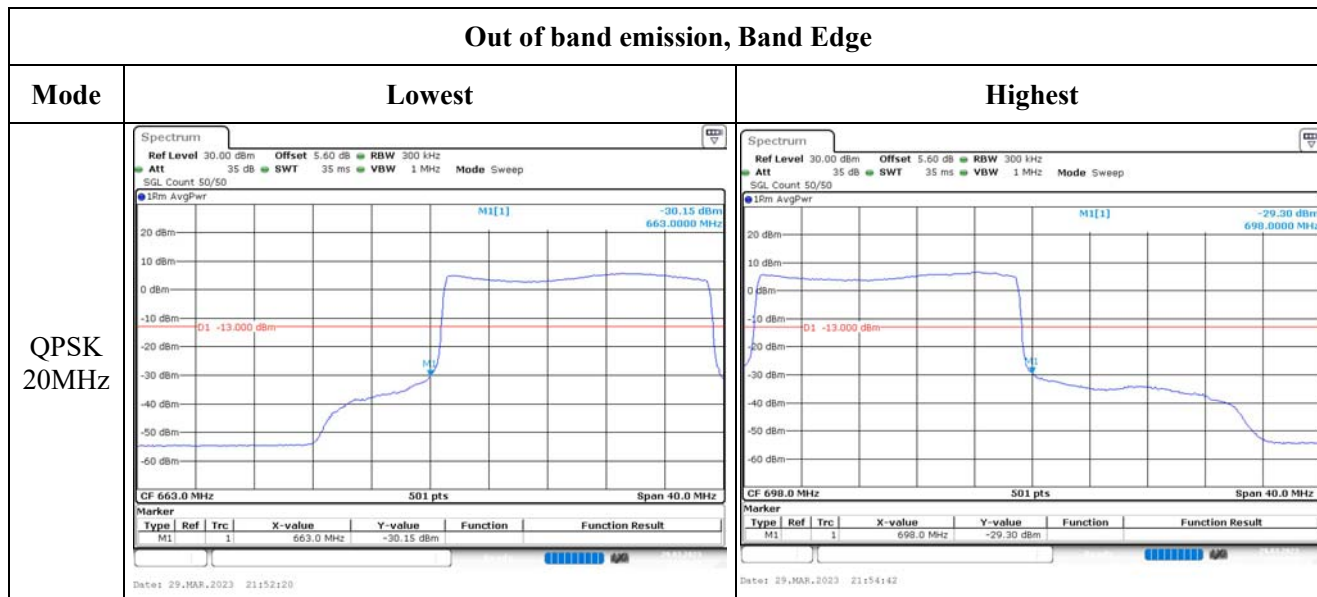
Highest



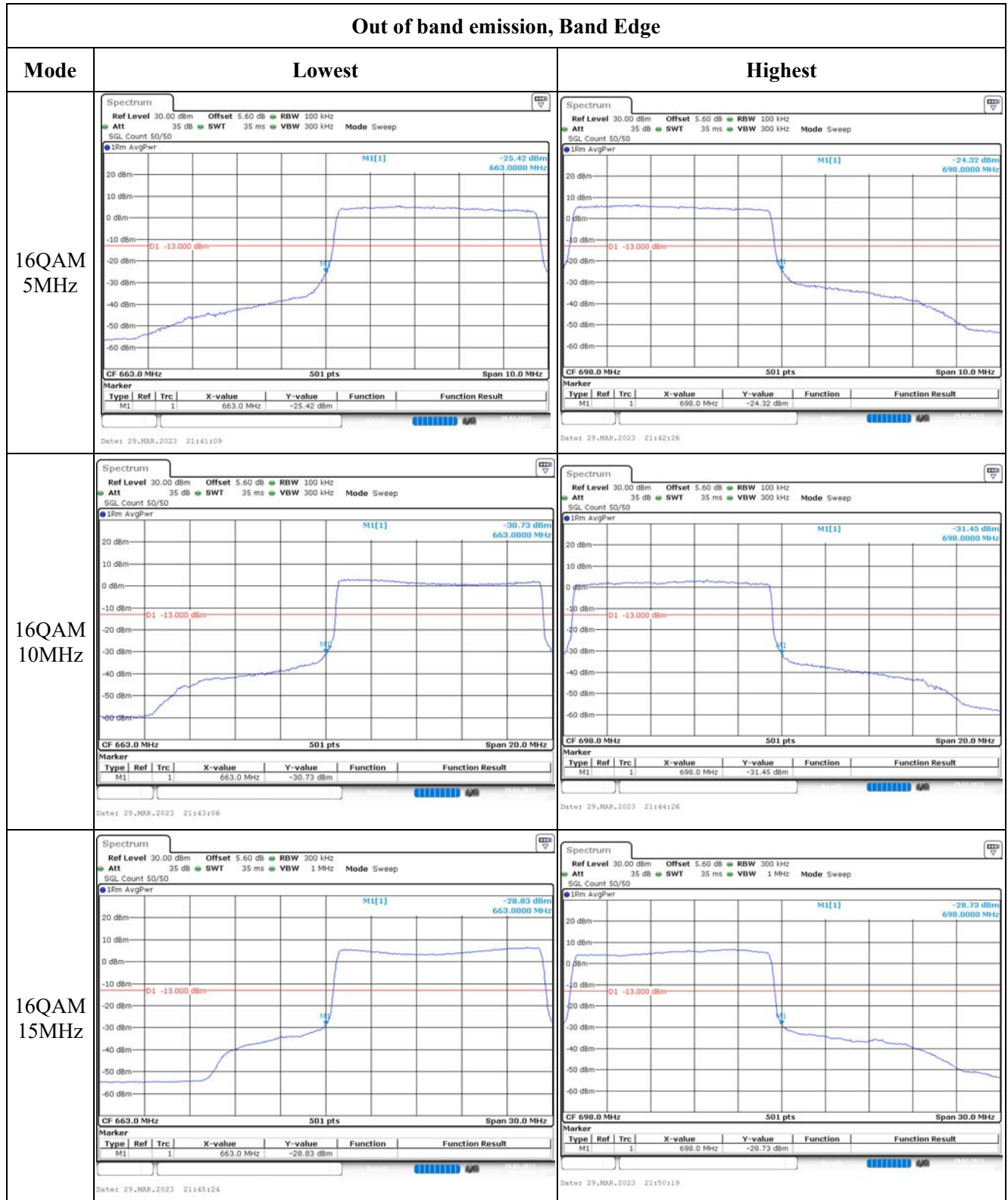
Out of band emission, Band Edge



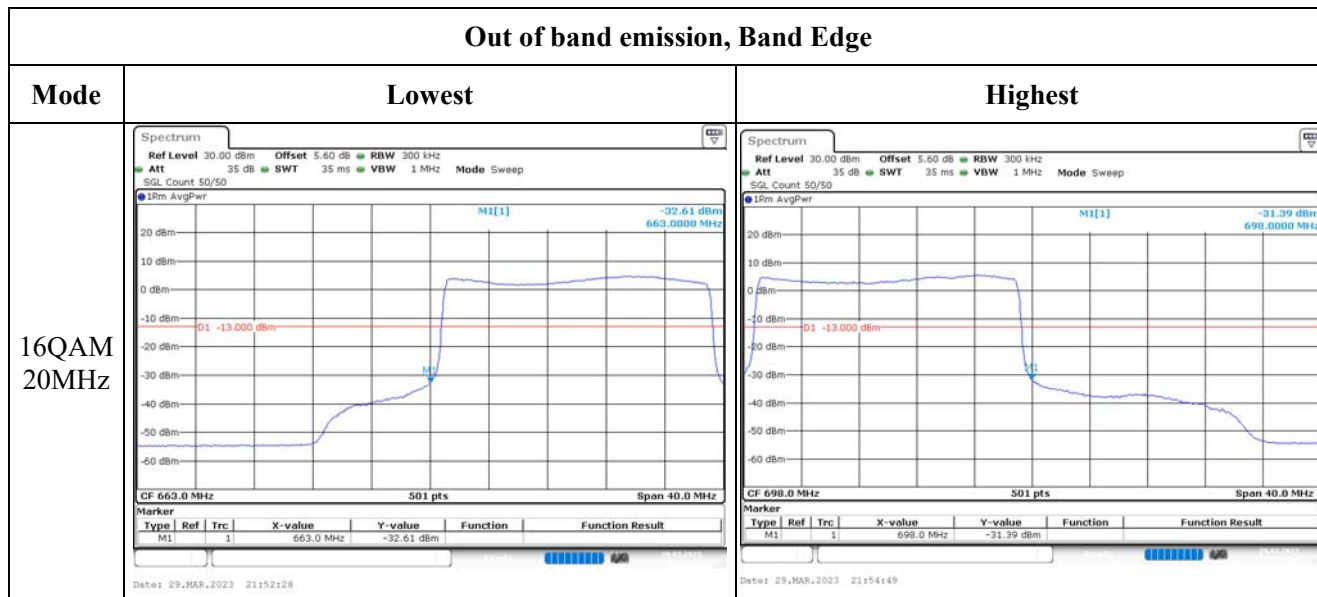
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.14 Radiated Spurious Emissions

Serial Number:	23CF-1	Test Date:	2023/3/29~2023/4/1
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~24.8	Relative Humidity: (%)	56~57	ATM Pressure: (kPa)	100.8~101.8
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2023/04/01	2024/03/31
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

*** 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 (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)			
GSM 850 Frequency:824.2MHz								
689.68	H	21.10	-52.28	0.00	0.54	-52.82	-13.00	39.82
732.07	V	21.16	-48.06	0.00	0.53	-48.59	-13.00	35.59
1648.400	H	47.37	-56.96	8.68	0.80	-49.08	-13.00	36.08
1648.400	V	44.86	-59.55	8.68	0.80	-51.67	-13.00	38.67
2472.600	H	61.72	-39.06	9.38	1.00	-30.68	-13.00	17.68
2472.600	V	56.47	-44.26	9.38	1.00	-35.88	-13.00	22.88
3296.800	H	36.73	-59.95	10.32	1.15	-50.78	-13.00	37.78
3296.800	V	38.52	-57.92	10.32	1.15	-48.75	-13.00	35.75
GSM 850 Frequency:836.6MHz								
726.98	H	21.25	-51.53	0.00	0.52	-52.05	-13.00	39.05
714.27	V	21.30	-48.31	0.00	0.50	-48.81	-13.00	35.81
1673.200	H	48.95	-55.36	8.71	0.85	-47.50	-13.00	34.50
1673.200	V	47.78	-56.63	8.71	0.85	-48.77	-13.00	35.77
2509.800	H	65.37	-35.24	9.42	1.01	-26.83	-13.00	13.83
2509.800	V	60.93	-39.69	9.42	1.01	-31.28	-13.00	18.28
3346.400	H	35.46	-61.71	10.34	1.16	-52.53	-13.00	39.53
3346.400	V	35.77	-61.26	10.34	1.16	-52.08	-13.00	39.08
GSM 850 Frequency:848.8MHz								
694.53	H	21.48	-51.87	0.00	0.55	-52.42	-13.00	39.42
729.44	V	20.88	-48.40	0.00	0.53	-48.93	-13.00	35.93
1697.600	H	57.99	-46.30	8.74	0.90	-38.46	-13.00	25.46
1697.600	V	56.01	-48.41	8.74	0.90	-40.57	-13.00	27.57
2546.400	H	65.95	-34.38	9.47	1.01	-25.92	-13.00	12.92
2546.400	V	61.65	-38.63	9.47	1.01	-30.17	-13.00	17.17
3395.200	H	48.32	-49.37	10.36	1.19	-40.20	-13.00	27.20
3395.200	V	45.38	-52.28	10.36	1.19	-43.11	-13.00	30.11

PCS Band (30MHz-20GHz)

1850 Band (GSM 1900)								
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								
88.03	H	35.72	-76.67	0.00	0.17	-76.84	-13.00	63.84
47.82	V	41.20	-57.88	-17.04	0.12	-75.04	-13.00	62.04
3700.400	H	46.43	-50.89	10.60	1.25	-41.54	-13.00	28.54
3700.400	V	40.12	-57.18	10.60	1.25	-47.83	-13.00	34.83
5550.600	H	42.05	-51.21	11.44	1.49	-41.26	-13.00	28.26
5550.600	V	50.00	-43.10	11.44	1.49	-33.15	-13.00	20.15
GSM 1900 Frequency:1880MHz								
87.11	H	35.53	-76.56	0.00	0.17	-76.73	-13.00	63.73
47.82	V	40.89	-58.19	-17.04	0.12	-75.35	-13.00	62.35
3760.000	H	42.22	-54.19	10.66	1.24	-44.77	-13.00	31.77
3760.000	V	42.46	-53.83	10.66	1.24	-44.41	-13.00	31.41
5640.000	H	44.17	-49.28	11.33	1.54	-39.49	-13.00	26.49
5640.000	V	42.00	-51.33	11.33	1.54	-41.54	-13.00	28.54
GSM 1900 Frequency:1909.8MHz								
89.90	H	36.21	-76.79	0.00	0.18	-76.97	-13.00	63.97
44.58	V	40.74	-55.02	-20.35	0.12	-75.49	-13.00	62.49
3819.600	H	41.68	-54.18	10.72	1.29	-44.75	-13.00	31.75
3819.600	V	40.10	-55.62	10.72	1.29	-46.19	-13.00	33.19
5729.400	H	45.40	-48.08	11.22	1.59	-38.45	-13.00	25.45
5729.400	V	46.70	-46.66	11.22	1.59	-37.03	-13.00	24.03

WCDMA 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)			
WCDMA Band II, Frequency:1852.4 MHz								
87.12	H	36.21	-75.88	0.00	0.17	-76.05	-13.00	63.05
47.82	V	41.43	-57.65	-17.04	0.12	-74.81	-13.00	61.81
3704.800	H	40.03	-57.23	10.60	1.25	-47.88	-13.00	34.88
3704.800	V	38.44	-58.79	10.60	1.25	-49.44	-13.00	36.44
5557.200	H	39.35	-53.93	11.43	1.49	-43.99	-13.00	30.99
5557.200	V	48.31	-44.82	11.43	1.49	-34.88	-13.00	21.88
WCDMA Band II, Frequency:1880 MHz								
209.31	H	34.80	-77.91	0.00	0.26	-78.17	-13.00	65.17
43.81	V	41.54	-53.22	-21.37	0.12	-74.71	-13.00	61.71
3760.000	H	38.21	-58.20	10.66	1.24	-48.78	-13.00	35.78
3760.000	V	37.35	-58.94	10.66	1.24	-49.52	-13.00	36.52
5640.000	H	40.96	-52.49	11.33	1.54	-42.70	-13.00	29.70
5640.000	V	43.45	-49.88	11.33	1.54	-40.09	-13.00	27.09
WCDMA Band II, Frequency:1907.6MHz								
87.11	H	36.54	-75.55	0.00	0.17	-75.72	-13.00	62.72
47.16	V	41.56	-56.87	-17.68	0.12	-74.67	-13.00	61.67
3815.200	H	35.69	-60.16	10.72	1.29	-50.73	-13.00	37.73
3815.200	V	36.58	-59.11	10.72	1.29	-49.68	-13.00	36.68
5722.800	H	45.46	-48.03	11.23	1.58	-38.38	-13.00	25.38
5722.800	V	39.77	-53.58	11.23	1.58	-43.93	-13.00	30.93

WCDMA 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)			
Frequency:			1712.4	MHz				
82.64	H	34.81	-75.83	0.00	0.17	-76.00	-13.00	63.00
47.65	V	40.52	-58.39	-17.20	0.12	-75.71	-13.00	62.71
3424.800	H	34.18	-63.59	10.37	1.17	-54.39	-13.00	41.39
3424.800	V	34.23	-63.51	10.37	1.17	-54.31	-13.00	41.31
5137.200	H	37.25	-56.37	11.28	1.46	-46.55	-13.00	33.55
5137.200	V	39.00	-54.50	11.28	1.46	-44.68	-13.00	31.68
Frequency:			1732.6	MHz				
87.41	H	34.27	-77.92	0.00	0.17	-78.09	-13.00	65.09
45.05	V	40.28	-56.07	-19.75	0.12	-75.94	-13.00	62.94
3465.200	H	34.07	-63.74	10.39	1.15	-54.50	-13.00	41.50
3465.200	V	35.11	-62.66	10.39	1.15	-53.42	-13.00	40.42
5197.800	H	38.40	-55.73	11.32	1.44	-45.85	-13.00	32.85
5197.800	V	45.00	-48.98	11.32	1.44	-39.10	-13.00	26.10
Frequency:			1752.6	MHz				
85.29	H	36.98	-74.52	0.00	0.17	-74.69	-13.00	61.69
47.82	V	40.93	-58.15	-17.04	0.12	-75.31	-13.00	62.31
3505.200	H	35.23	-62.60	10.41	1.18	-53.37	-13.00	40.37
3505.200	V	34.78	-62.99	10.41	1.18	-53.76	-13.00	40.76
5257.800	H	39.62	-54.11	11.35	1.47	-44.23	-13.00	31.23
5257.800	V	42.89	-50.62	11.35	1.47	-40.74	-13.00	27.74

WCDMA Band 5(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)			
WCDMA Band 5 Frequency:826.4 MHz								
719.30	H	21.19	-51.74	0.00	0.49	-52.23	-13.00	39.23
721.82	V	21.15	-48.29	0.00	0.50	-48.79	-13.00	35.79
1652.800	H	41.47	-62.86	8.68	0.81	-54.99	-13.00	41.99
1652.800	V	39.29	-65.12	8.68	0.81	-57.25	-13.00	44.25
2479.200	H	34.78	-65.98	9.39	1.01	-57.60	-13.00	44.60
2479.200	V	35.02	-65.71	9.39	1.01	-57.33	-13.00	44.33
3305.600	H	34.26	-62.47	10.32	1.15	-53.30	-13.00	40.30
3305.600	V	34.74	-61.76	10.32	1.15	-52.59	-13.00	39.59
WCDMA Band 5 Frequency:836.6MHz								
716.79	H	21.73	-51.25	0.00	0.50	-51.75	-13.00	38.75
627.45	V	21.78	-49.45	0.00	0.48	-49.93	-13.00	36.93
1673.200	H	41.36	-62.95	8.71	0.85	-55.09	-13.00	42.09
1673.200	V	36.69	-67.72	8.71	0.85	-59.86	-13.00	46.86
2509.800	H	36.38	-64.23	9.42	1.01	-55.82	-13.00	42.82
2509.800	V	39.73	-60.89	9.42	1.01	-52.48	-13.00	39.48
3346.400	H	35.68	-61.49	10.34	1.16	-52.31	-13.00	39.31
3346.400	V	34.87	-62.16	10.34	1.16	-52.98	-13.00	39.98
WCDMA Band 5 Frequency:846.6MHz								
729.46	H	21.04	-51.68	0.00	0.53	-52.21	-13.00	39.21
719.31	V	21.32	-48.18	0.00	0.49	-48.67	-13.00	35.67
1693.200	H	36.56	-67.74	8.73	0.89	-59.90	-13.00	46.90
1693.200	V	37.73	-66.69	8.73	0.89	-58.85	-13.00	45.85
2539.800	H	35.34	-65.04	9.46	1.01	-56.59	-13.00	43.59
2539.800	V	36.10	-64.24	9.46	1.01	-55.79	-13.00	42.79
3386.400	H	34.39	-63.20	10.35	1.18	-54.03	-13.00	41.03
3386.400	V	35.11	-62.43	10.35	1.18	-53.26	-13.00	40.26

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, 1.4MHz, Frequency:1850.7 MHz								
84.99	H	35.75	-75.65	0.00	0.17	-75.82	-13.00	62.82
47.82	V	41.58	-57.50	-17.04	0.12	-74.66	-13.00	61.66
3701.400	H	43.17	-54.14	10.60	1.25	-44.79	-13.00	31.79
3701.400	V	42.71	-54.58	10.60	1.25	-45.23	-13.00	32.23
5552.100	H	44.93	-48.34	11.44	1.49	-38.39	-13.00	25.39
5552.100	V	58.10	-35.00	11.44	1.49	-25.05	-13.00	12.05
QPSK, 1.4MHz,Frequency:1880 MHz								
84.70	H	36.08	-75.23	0.00	0.17	-75.40	-13.00	62.40
44.58	V	40.67	-55.09	-20.35	0.12	-75.56	-13.00	62.56
3760.000	H	41.32	-55.09	10.66	1.24	-45.67	-13.00	32.67
3760.000	V	43.53	-52.76	10.66	1.24	-43.34	-13.00	30.34
5640.000	H	52.53	-40.92	11.33	1.54	-31.13	-13.00	18.13
5640.000	V	56.21	-37.12	11.33	1.54	-27.33	-13.00	14.33
QPSK, 1.4MHz,Frequency:1909.3 MHz								
87.11	H	36.52	-75.57	0.00	0.17	-75.74	-13.00	62.74
45.21	V	41.23	-55.28	-19.59	0.12	-74.99	-13.00	61.99
3818.600	H	39.23	-56.63	10.72	1.29	-47.20	-13.00	34.20
3818.600	V	43.42	-52.29	10.72	1.29	-42.86	-13.00	29.86
5727.900	H	40.85	-52.63	11.23	1.59	-42.99	-13.00	29.99
5727.900	V	40.45	-52.91	11.23	1.59	-43.27	-13.00	30.27

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)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
80.64	H	36.23	-73.76	0.00	0.16	-73.92	-13.00	60.92
47.69	V	41.84	-57.11	-17.16	0.12	-74.39	-13.00	61.39
3421.400	H	39.49	-58.27	10.37	1.17	-49.07	-13.00	36.07
3421.400	V	38.27	-59.46	10.37	1.17	-50.26	-13.00	37.26
5132.100	H	40.62	-52.95	11.28	1.47	-43.14	-13.00	30.14
5132.100	V	39.91	-53.55	11.28	1.47	-43.74	-13.00	30.74
1.4MHz QPSK, Frequency: 1732.5 MHz								
84.40	H	36.67	-74.54	0.00	0.17	-74.71	-13.00	61.71
45.21	V	40.48	-56.03	-19.59	0.12	-75.74	-13.00	62.74
3465.000	H	38.38	-59.43	10.39	1.15	-50.19	-13.00	37.19
3465.000	V	38.85	-58.92	10.39	1.15	-49.68	-13.00	36.68
5197.500	H	39.75	-54.38	11.32	1.44	-44.50	-13.00	31.50
5197.500	V	36.78	-57.20	11.32	1.44	-47.32	-13.00	34.32
1.4MHz QPSK, Frequency: 1754.3 MHz								
84.11	H	35.93	-75.19	0.00	0.17	-75.36	-13.00	62.36
47.65	V	41.19	-57.72	-17.20	0.12	-75.04	-13.00	62.04
3508.600	H	39.95	-57.87	10.41	1.19	-48.65	-13.00	35.65
3508.600	V	35.77	-61.99	10.41	1.19	-52.77	-13.00	39.77
5262.900	H	40.40	-53.30	11.36	1.47	-43.41	-13.00	30.41
5262.900	V	38.59	-54.88	11.36	1.47	-44.99	-13.00	31.99

LTE Band 5(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)			
QPSK, 1.4MHz, Frequency: 824.7 MHz								
699.43	H	21.05	-52.27	0.00	0.55	-52.82	-13.00	39.82
729.45	V	21.52	-47.76	0.00	0.53	-48.29	-13.00	35.29
1649.400	H	48.75	-55.58	8.68	0.80	-47.70	-13.00	34.70
1649.400	V	43.68	-60.73	8.68	0.80	-52.85	-13.00	39.85
2474.100	H	43.23	-57.55	9.38	1.00	-49.17	-13.00	36.17
2474.100	V	47.47	-53.26	9.38	1.00	-44.88	-13.00	31.88
3298.800	H	35.47	-61.21	10.32	1.15	-52.04	-13.00	39.04
3298.800	V	34.77	-61.67	10.32	1.15	-52.50	-13.00	39.50
QPSK, 1.4MHz, Frequency: 836.5 MHz								
719.30	H	21.75	-51.18	0.00	0.49	-51.67	-13.00	38.67
665.95	V	21.50	-49.04	0.00	0.50	-49.54	-13.00	36.54
1673.000	H	44.00	-60.31	8.71	0.85	-52.45	-13.00	39.45
1673.000	V	37.58	-66.83	8.71	0.85	-58.97	-13.00	45.97
2509.500	H	42.52	-58.09	9.42	1.01	-49.68	-13.00	36.68
2509.500	V	45.01	-55.61	9.42	1.01	-47.20	-13.00	34.20
3346.000	H	35.11	-62.05	10.34	1.16	-52.87	-13.00	39.87
3346.000	V	36.54	-60.48	10.34	1.16	-51.30	-13.00	38.30
QPSK, 1.4MHz, Frequency: 848.3 MHz								
687.28	H	21.41	-51.98	0.00	0.53	-52.51	-13.00	39.51
696.98	V	21.30	-48.67	0.00	0.55	-49.22	-13.00	36.22
1696.600	H	43.25	-61.04	8.74	0.89	-53.19	-13.00	40.19
1696.600	V	39.81	-64.61	8.74	0.89	-56.76	-13.00	43.76
2544.900	H	36.69	-63.65	9.47	1.01	-55.19	-13.00	42.19
2544.900	V	41.04	-59.26	9.47	1.01	-50.80	-13.00	37.80
3393.200	H	35.08	-62.59	10.36	1.19	-53.42	-13.00	40.42
3393.200	V	34.16	-63.47	10.36	1.19	-54.30	-13.00	41.30

LTE Band 12(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)			
QPSK, 1.4MHz, Frequency: 699.7 MHz								
30.70	H	34.71	-37.49	-25.98	0.10	-63.57	-13.00	50.57
43.30	V	48.53	-45.57	-22.04	0.12	-67.73	-13.00	54.73
1399.400	H	61.62	-42.08	8.22	0.71	-34.57	-13.00	21.57
1399.400	V	55.98	-47.77	8.22	0.71	-40.26	-13.00	27.26
2099.100	H	55.01	-46.87	9.16	0.91	-38.62	-13.00	25.62
2099.100	V	55.13	-46.70	9.16	0.91	-38.45	-13.00	25.45
2798.800	H	35.62	-64.31	9.88	1.04	-55.47	-13.00	42.47
2798.800	V	34.78	-65.02	9.88	1.04	-56.18	-13.00	43.18
QPSK, 1.4MHz, Frequency: 707.5 MHz								
30.70	H	35.24	-36.96	-25.98	0.10	-63.04	-13.00	50.04
41.90	V	48.84	-43.44	-23.89	0.12	-67.45	-13.00	54.45
1415.000	H	51.21	-52.46	8.26	0.72	-44.92	-13.00	31.92
1415.000	V	49.92	-53.80	8.26	0.72	-46.26	-13.00	33.26
2122.500	H	54.54	-47.45	9.17	0.92	-39.20	-13.00	26.20
2122.500	V	57.23	-44.74	9.17	0.92	-36.49	-13.00	23.49
2830.000	H	34.43	-65.37	9.93	1.06	-56.50	-13.00	43.50
2830.000	V	34.57	-65.16	9.93	1.06	-56.29	-13.00	43.29
QPSK, 1.4MHz, Frequency: 715.3 MHz								
30.70	H	35.95	-36.25	-25.98	0.10	-62.33	-13.00	49.33
43.30	V	49.35	-44.75	-22.04	0.12	-66.91	-13.00	53.91
1430.600	H	56.42	-47.21	8.31	0.73	-39.63	-13.00	26.63
1430.600	V	54.93	-48.76	8.31	0.73	-41.18	-13.00	28.18
2145.900	H	53.86	-48.24	9.19	0.93	-39.98	-13.00	26.98
2145.900	V	57.95	-44.16	9.19	0.93	-35.90	-13.00	22.90
2861.200	H	35.42	-64.23	9.98	1.07	-55.32	-13.00	42.32
2861.200	V	34.79	-64.88	9.98	1.07	-55.97	-13.00	42.97

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)			
QPSK, 5MHz, Frequency: 706.5 MHz								
584.90	H	20.48	-53.68	0.00	0.46	-54.14	-13.00	41.14
582.85	V	21.05	-50.65	0.00	0.46	-51.11	-13.00	38.11
1413.000	H	50.56	-53.11	8.26	0.72	-45.57	-13.00	32.57
1413.000	V	47.40	-56.32	8.26	0.72	-48.78	-13.00	35.78
2119.500	H	43.81	-58.16	9.17	0.92	-49.91	-13.00	36.91
2119.500	V	45.14	-56.81	9.17	0.92	-48.56	-13.00	35.56
2826.000	H	34.44	-65.37	9.92	1.06	-56.51	-13.00	43.51
2826.000	V	35.28	-64.46	9.92	1.06	-55.60	-13.00	42.60
QPSK, 5MHz, Frequency:710 MHz								
543.42	H	21.21	-53.76	0.00	0.47	-54.23	-13.00	41.23
597.32	V	21.48	-50.25	0.00	0.51	-50.76	-13.00	37.76
1420.000	H	49.78	-53.88	8.28	0.73	-46.33	-13.00	33.33
1420.000	V	46.76	-56.95	8.28	0.73	-49.40	-13.00	36.40
2130.000	H	43.32	-58.70	9.18	0.92	-50.44	-13.00	37.44
2130.000	V	46.40	-55.61	9.18	0.92	-47.35	-13.00	34.35
2840.000	H	35.12	-64.63	9.94	1.06	-55.75	-13.00	42.75
2840.000	V	34.78	-64.93	9.94	1.06	-56.05	-13.00	43.05
QPSK, 5MHz, Frequency: 713.5 MHz								
584.90	H	20.68	-53.48	0.00	0.46	-53.94	-13.00	40.94
576.76	V	21.24	-50.46	0.00	0.46	-50.92	-13.00	37.92
1427.000	H	45.16	-58.48	8.30	0.73	-50.91	-13.00	37.91
1427.000	V	43.01	-60.68	8.30	0.73	-53.11	-13.00	40.11
2140.500	H	41.70	-60.37	9.18	0.93	-52.12	-13.00	39.12
2140.500	V	44.89	-57.19	9.18	0.93	-48.94	-13.00	35.94
2854.000	H	35.63	-64.06	9.97	1.07	-55.16	-13.00	42.16
2854.000	V	34.78	-64.90	9.97	1.07	-56.00	-13.00	43.00

LTE Band 41(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, 5MHz, Frequency: 2557.5 MHz								
87.11	H	36.62	-75.47	0.00	0.17	-75.64	-25.00	50.64
45.21	V	40.30	-56.21	-19.59	0.12	-75.92	-25.00	50.92
5115.000	H	42.99	-50.44	11.27	1.51	-40.68	-25.00	15.68
5115.000	V	41.04	-52.29	11.27	1.51	-42.53	-25.00	17.53
7672.500	H	34.78	-54.73	10.87	2.03	-45.89	-25.00	20.89
7672.500	V	35.06	-55.13	10.87	2.03	-46.29	-25.00	21.29
QPSK, 5MHz, Frequency: 2605 MHz								
80.92	H	36.25	-73.83	0.00	0.16	-73.99	-25.00	48.99
45.05	V	41.87	-54.48	-19.75	0.12	-74.35	-25.00	49.35
5210.000	H	38.02	-56.06	11.33	1.45	-46.18	-25.00	21.18
5210.000	V	37.58	-56.34	11.33	1.45	-46.46	-25.00	21.46
7815.000	H	33.51	-55.89	10.84	1.99	-47.04	-25.00	22.04
7815.000	V	33.75	-56.04	10.84	1.99	-47.19	-25.00	22.19
QPSK, 5MHz, Frequency: 2652.5 MHz								
88.03	H	36.87	-75.52	0.00	0.17	-75.69	-25.00	50.69
47.16	V	41.72	-56.71	-17.68	0.12	-74.51	-25.00	49.51
5305.000	H	36.11	-57.33	11.38	1.46	-47.41	-25.00	22.41
5305.000	V	38.55	-54.63	11.38	1.46	-44.71	-25.00	19.71
7957.500	H	34.03	-54.39	10.81	2.09	-45.67	-25.00	20.67
7957.500	V	34.17	-54.70	10.81	2.09	-45.98	-25.00	20.98

LTE Band 66(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: 1710.7 MHz								
85.89	H	37.79	-73.90	0.00	0.17	-74.07	-13.00	61.07
46.66	V	40.71	-57.23	-18.17	0.12	-75.52	-13.00	62.52
3421.400	H	39.61	-58.15	10.37	1.17	-48.95	-13.00	35.95
3421.400	V	35.11	-62.62	10.37	1.17	-53.42	-13.00	40.42
5132.100	H	52.36	-41.21	11.28	1.47	-31.40	-13.00	18.40
5132.100	V	58.06	-35.40	11.28	1.47	-25.59	-13.00	12.59
1.4MHz QPSK, Frequency: 1745 MHz								
86.80	H	37.61	-74.38	0.00	0.17	-74.55	-13.00	61.55
45.21	V	40.87	-55.64	-19.59	0.12	-75.35	-13.00	62.35
3490.000	H	42.84	-55.00	10.40	1.17	-45.77	-13.00	32.77
3490.000	V	36.78	-61.00	10.40	1.17	-51.77	-13.00	38.77
5235.000	H	40.34	-53.56	11.34	1.46	-43.68	-13.00	30.68
5235.000	V	46.07	-47.64	11.34	1.46	-37.76	-13.00	24.76
1.4MHz QPSK, Frequency: 1779.3 MHz								
86.80	H	37.65	-74.34	0.00	0.17	-74.51	-13.00	61.51
47.65	V	41.02	-57.89	-17.20	0.12	-75.21	-13.00	62.21
3558.600	H	41.39	-56.28	10.46	1.22	-47.04	-13.00	34.04
3558.600	V	38.65	-58.92	10.46	1.22	-49.68	-13.00	36.68
5337.900	H	48.73	-44.74	11.40	1.47	-34.81	-13.00	21.81
5337.900	V	56.70	-36.63	11.40	1.47	-26.70	-13.00	13.70

LTE Band 71(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: 665.5 MHz								
576.85	H	20.48	-53.84	0.00	0.46	-54.30	-13.00	41.30
558.95	V	20.81	-50.86	0.00	0.47	-51.33	-13.00	38.33
1331.000	H	43.60	-59.43	8.03	0.76	-52.16	-13.00	39.16
1331.000	V	43.71	-59.65	8.03	0.76	-52.38	-13.00	39.38
1996.500	H	42.48	-59.68	9.10	0.89	-51.47	-13.00	38.47
1996.500	V	34.84	-66.70	9.10	0.89	-58.49	-13.00	45.49
2662.000	H	35.57	-64.39	9.66	1.06	-55.79	-13.00	42.79
2662.000	V	49.38	-50.50	9.66	1.06	-41.90	-13.00	28.90
5MHz QPSK, Frequency: 680.5 MHz								
582.95	H	20.62	-53.58	0.00	0.46	-54.04	-13.00	41.04
534.07	V	20.75	-50.88	0.00	0.46	-51.34	-13.00	38.34
1361.000	H	38.81	-64.52	8.11	0.77	-57.18	-13.00	44.18
1361.000	V	40.25	-63.28	8.11	0.77	-55.94	-13.00	42.94
2041.500	H	42.28	-59.75	9.12	0.91	-51.54	-13.00	38.54
2041.500	V	39.16	-62.48	9.12	0.91	-54.27	-13.00	41.27
2722.000	H	35.16	-64.81	9.76	1.05	-56.10	-13.00	43.10
2722.000	V	35.25	-64.66	9.76	1.05	-55.95	-13.00	42.95
5MHz QPSK, Frequency: 695.5 MHz								
568.83	H	20.83	-53.64	0.00	0.46	-54.10	-13.00	41.10
461.02	V	20.72	-52.41	0.00	0.41	-52.82	-13.00	39.82
1391.000	H	35.01	-68.61	8.19	0.72	-61.14	-13.00	48.14
1391.000	V	36.36	-67.34	8.19	0.72	-59.87	-13.00	46.87
2086.500	H	43.11	-58.80	9.15	0.91	-50.56	-13.00	37.56
2086.500	V	39.84	-61.95	9.15	0.91	-53.71	-13.00	40.71
2782.000	H	34.21	-65.73	9.85	1.05	-56.93	-13.00	43.93
2782.000	V	36.61	-63.22	9.85	1.05	-54.42	-13.00	41.42

Note:

- 1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
- 2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
- 3) Margin = Limit-Absolute Level

==== END OF REPORT =====