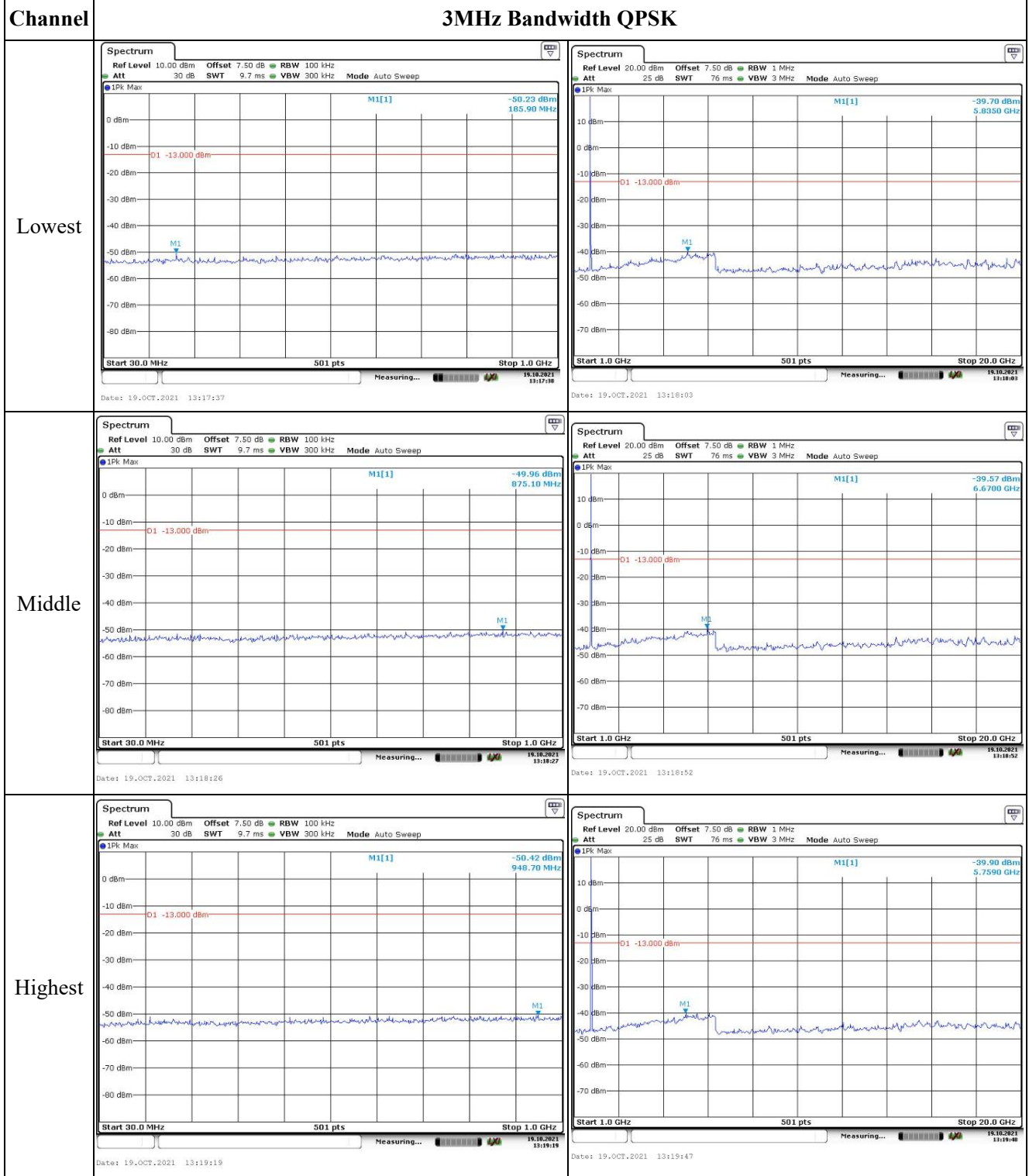


Spurious Emissions at Antenna Terminal

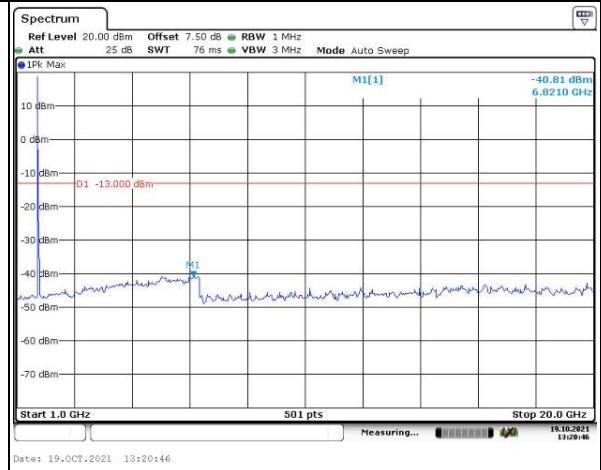
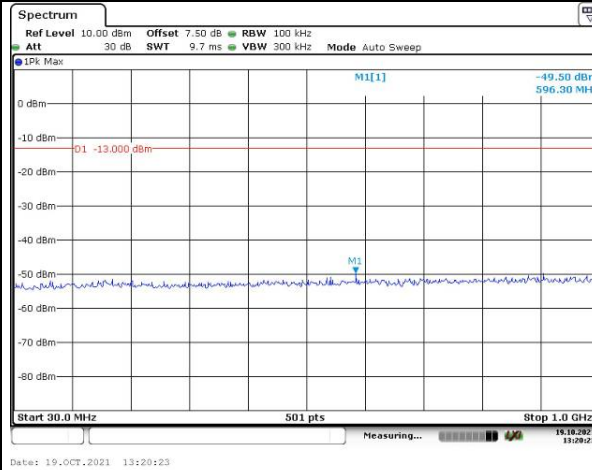


Spurious Emissions at Antenna Terminal

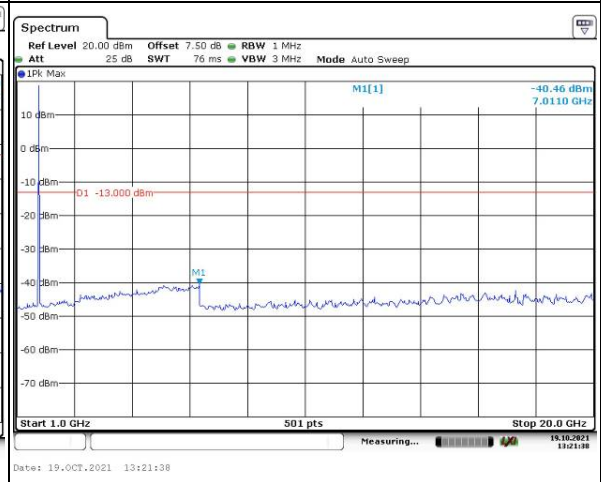
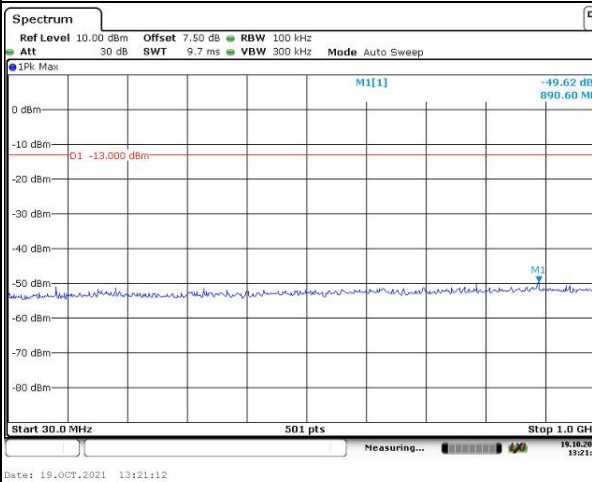
Channel

5MHz Bandwidth QPSK

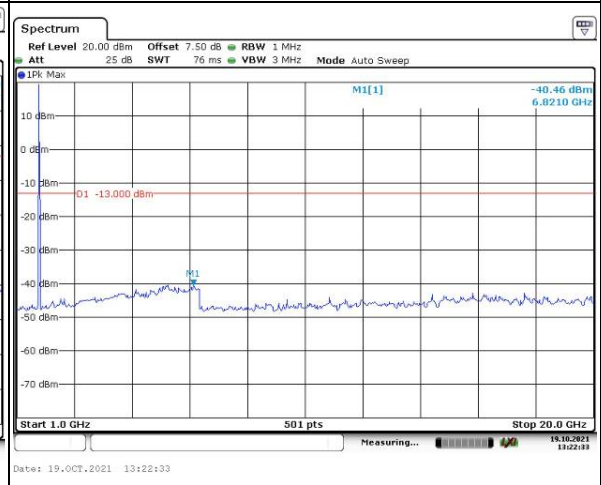
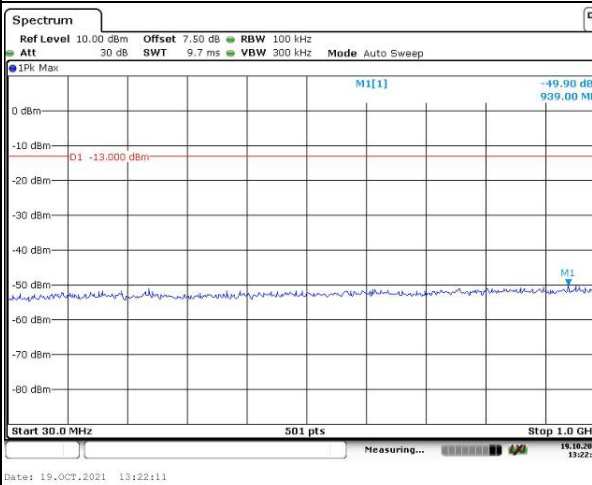
Lowest



Middle



Highest

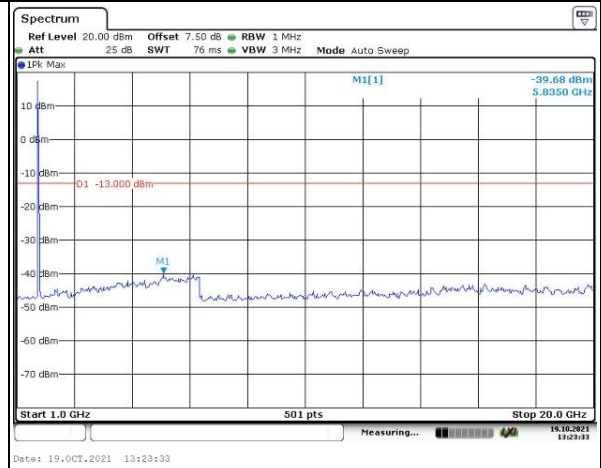
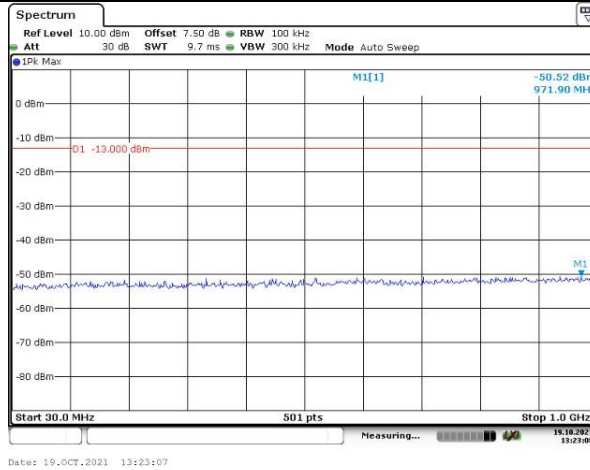


Spurious Emissions at Antenna Terminal

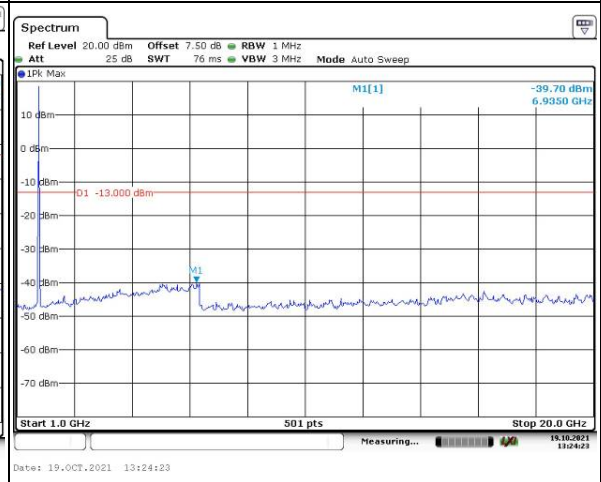
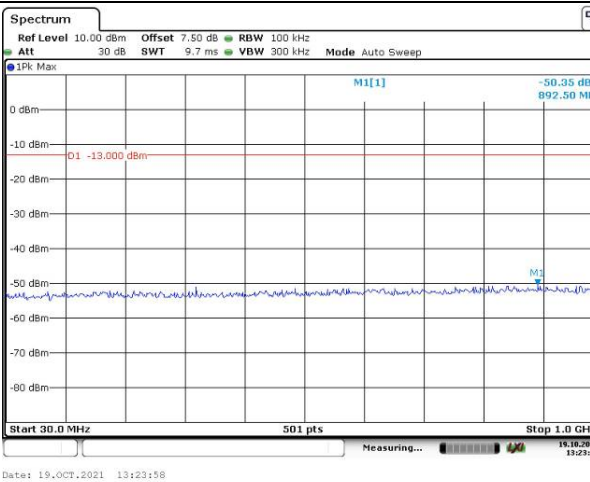
Channel

10MHz Bandwidth QPSK

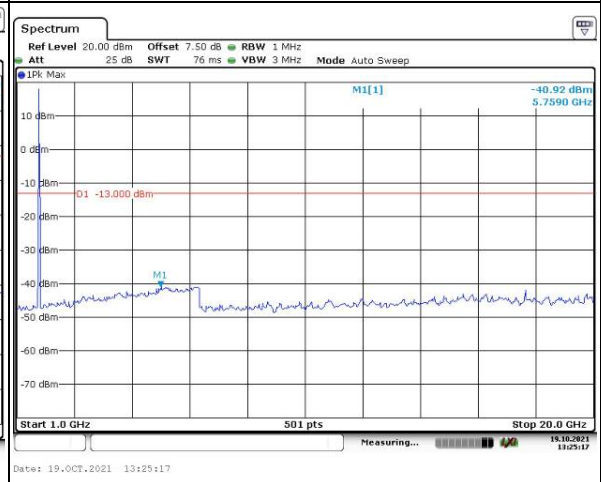
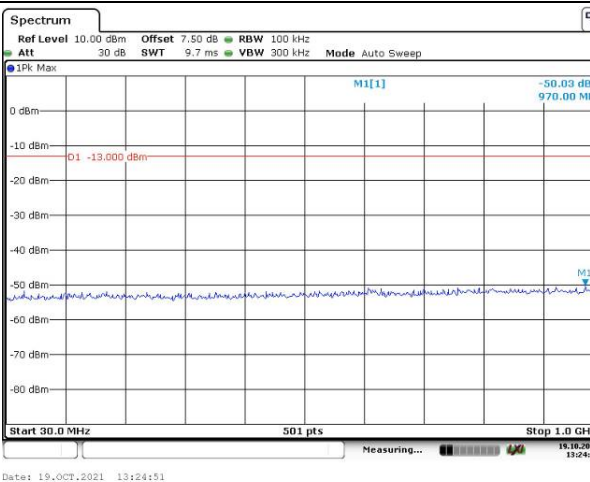
Lowest



Middle



Highest

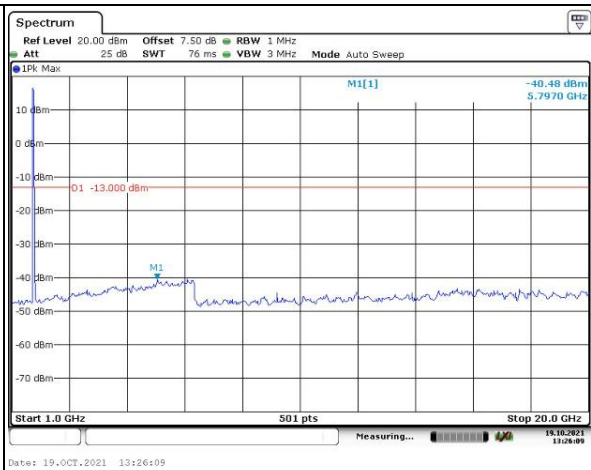
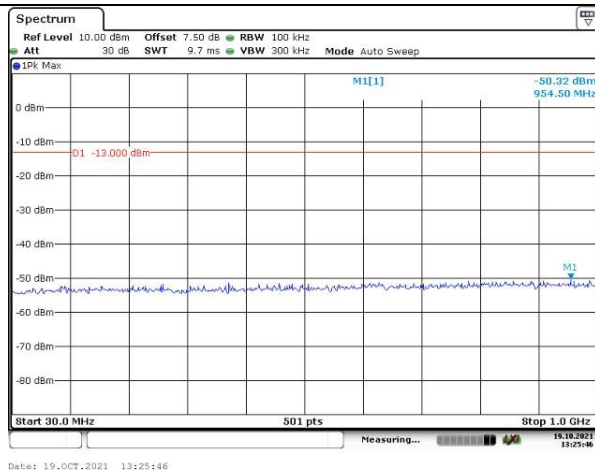


Spurious Emissions at Antenna Terminal

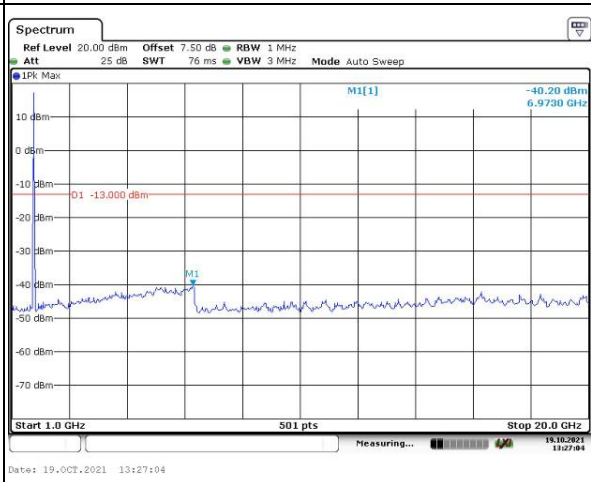
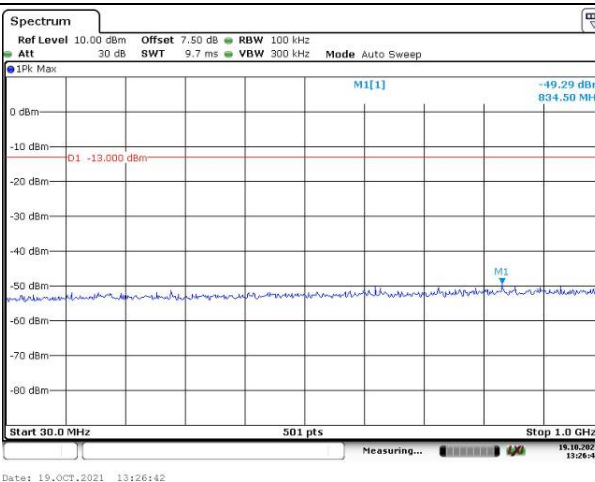
Channel

15MHz Bandwidth QPSK

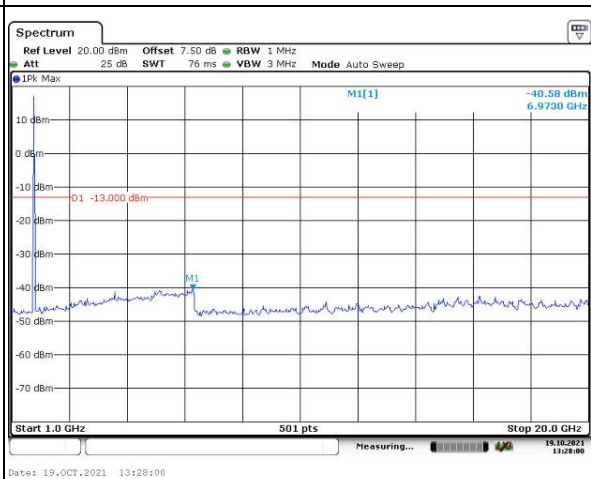
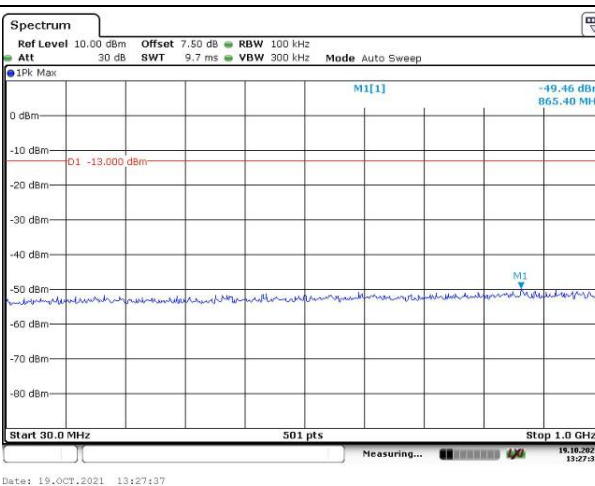
Lowest



Middle



Highest

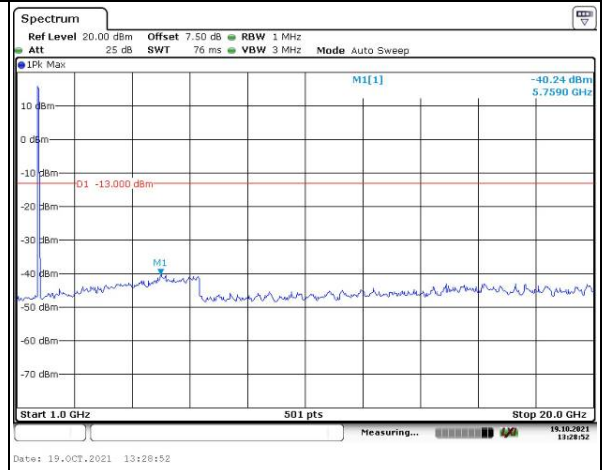
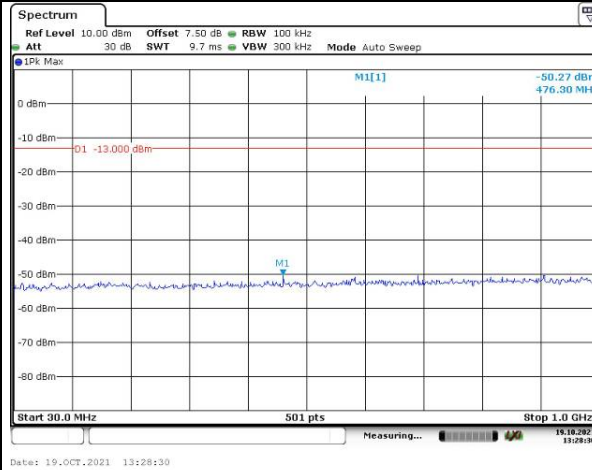


Spurious Emissions at Antenna Terminal

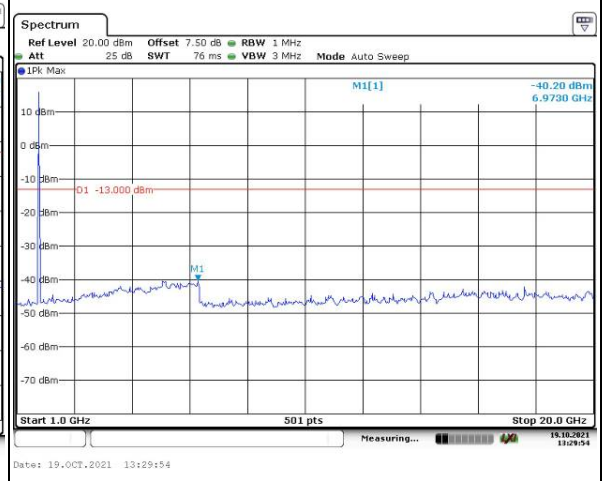
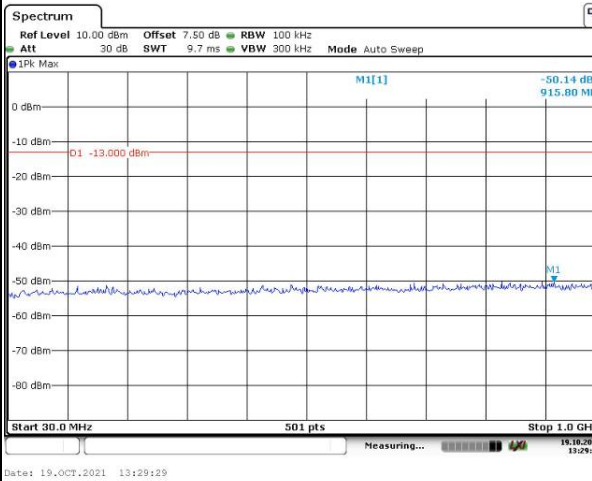
Channel

20MHz Bandwidth QPSK

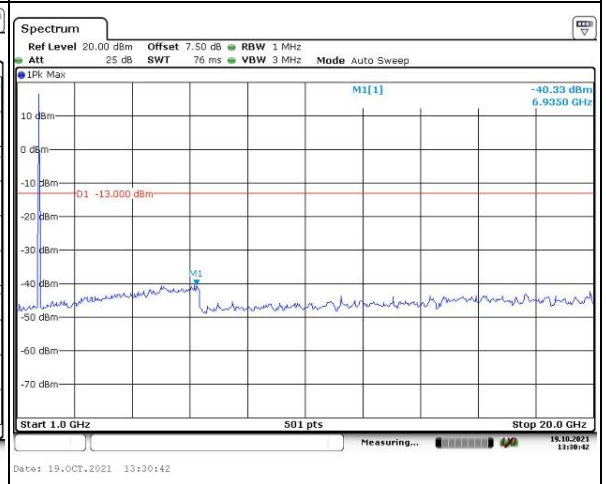
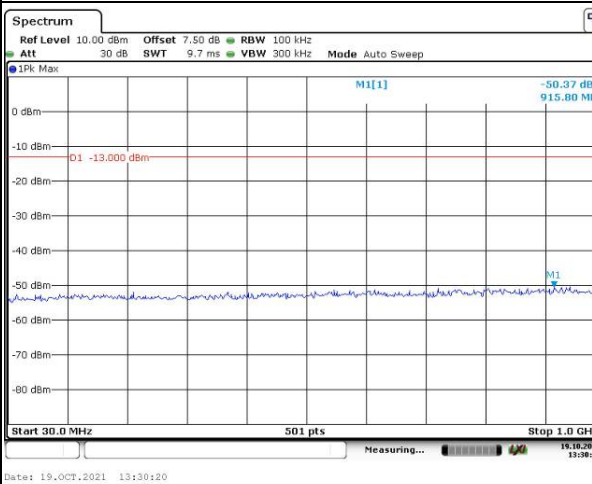
Lowest



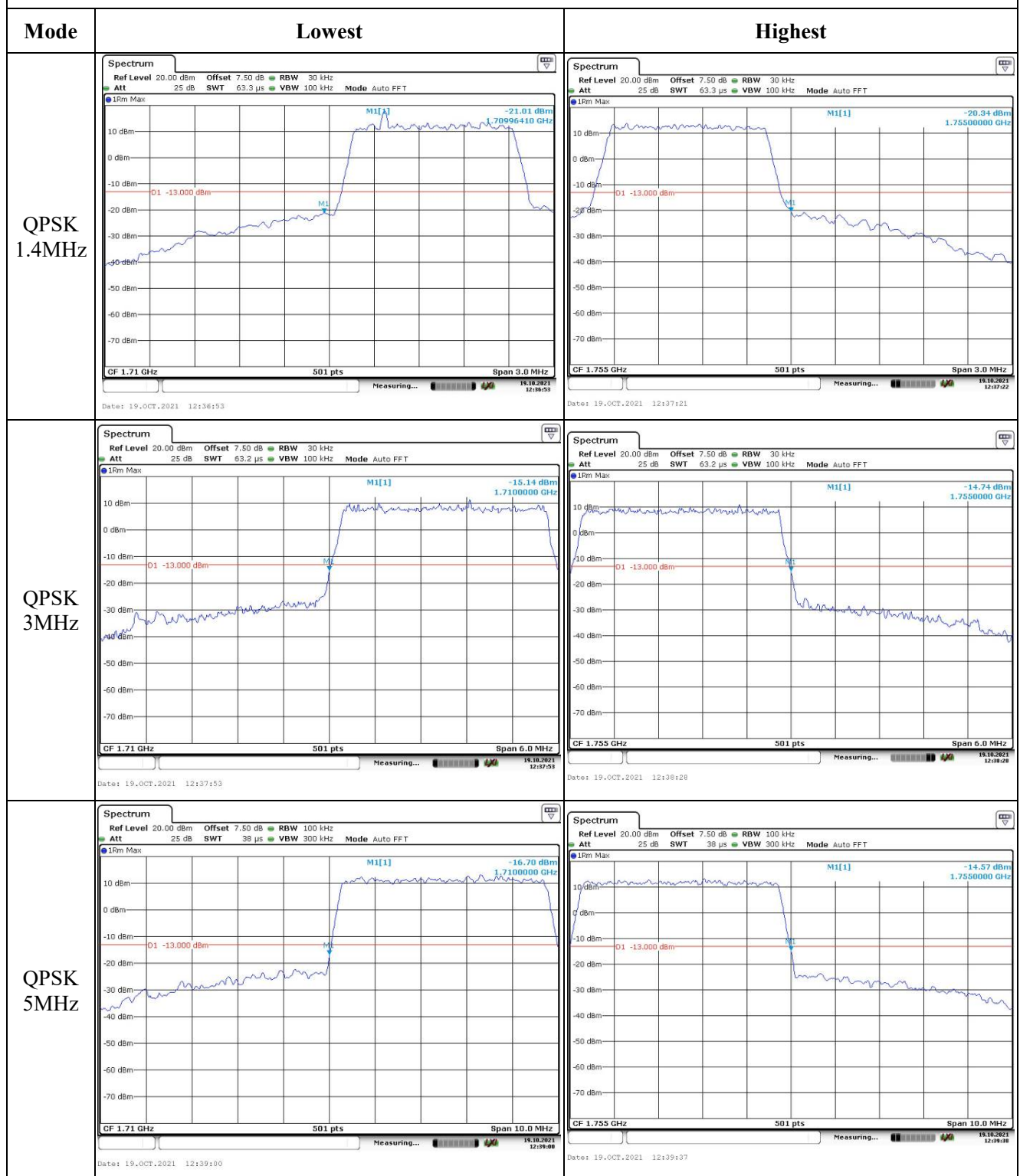
Middle



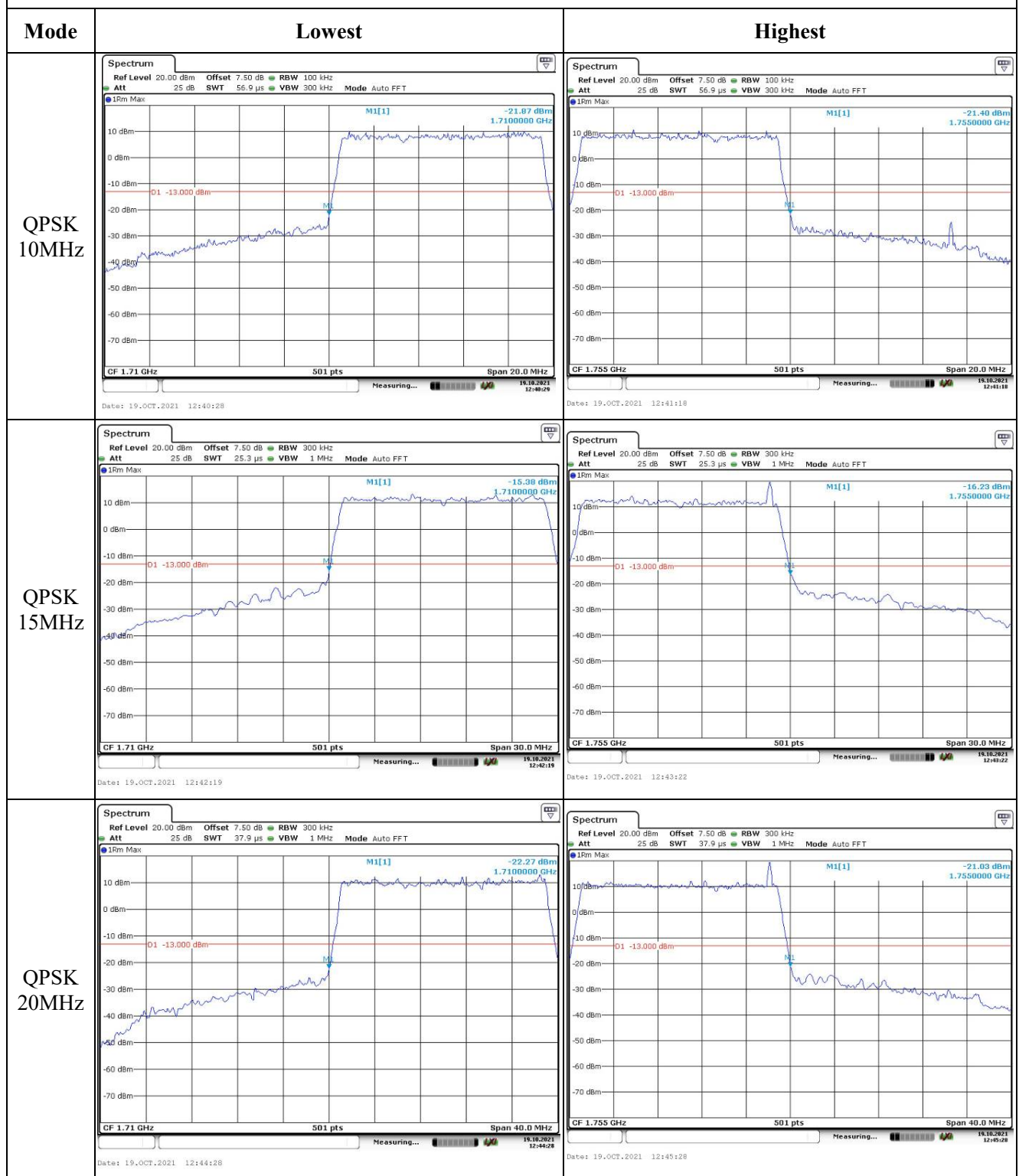
Highest



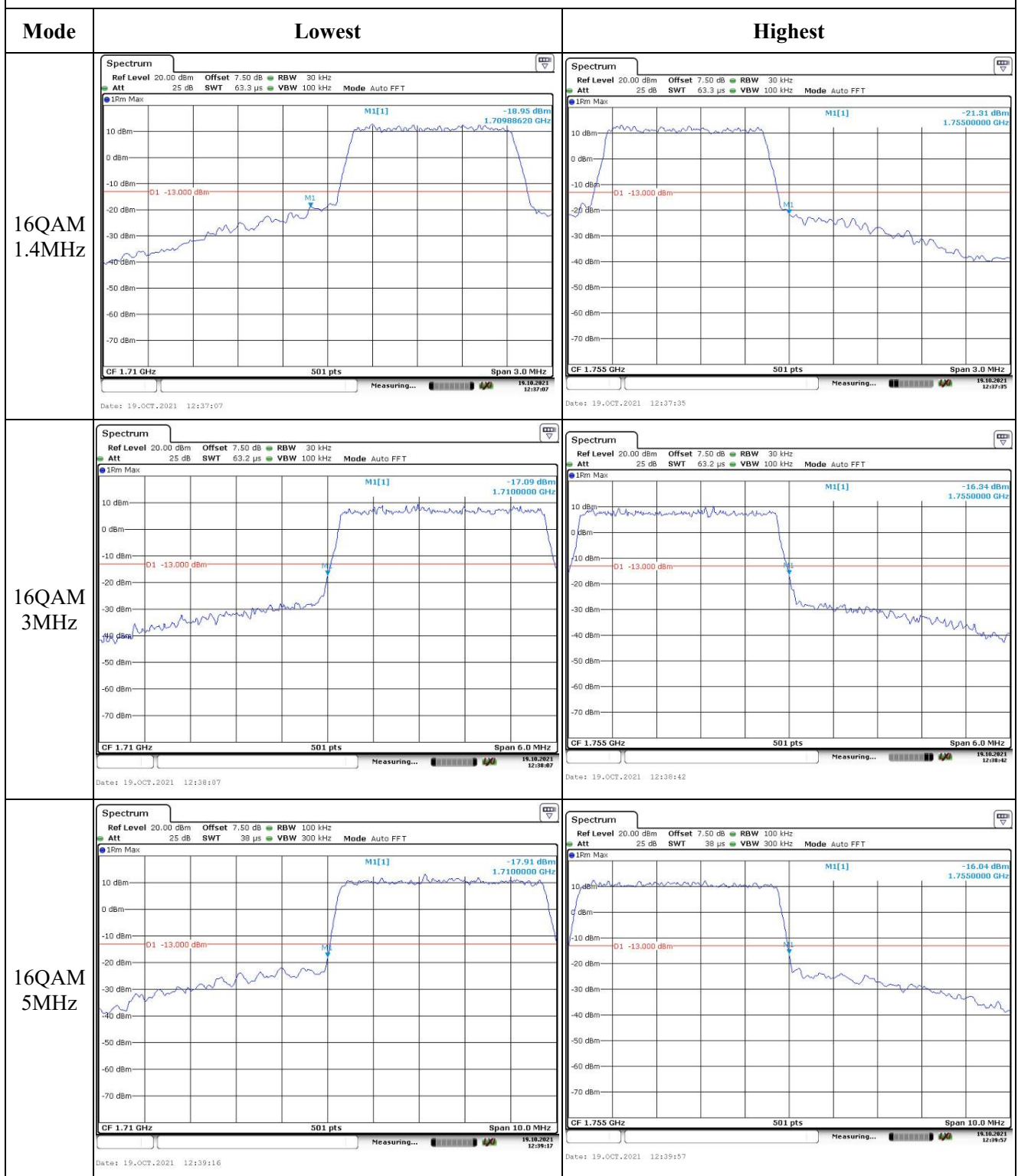
Out of band emission, Band Edge



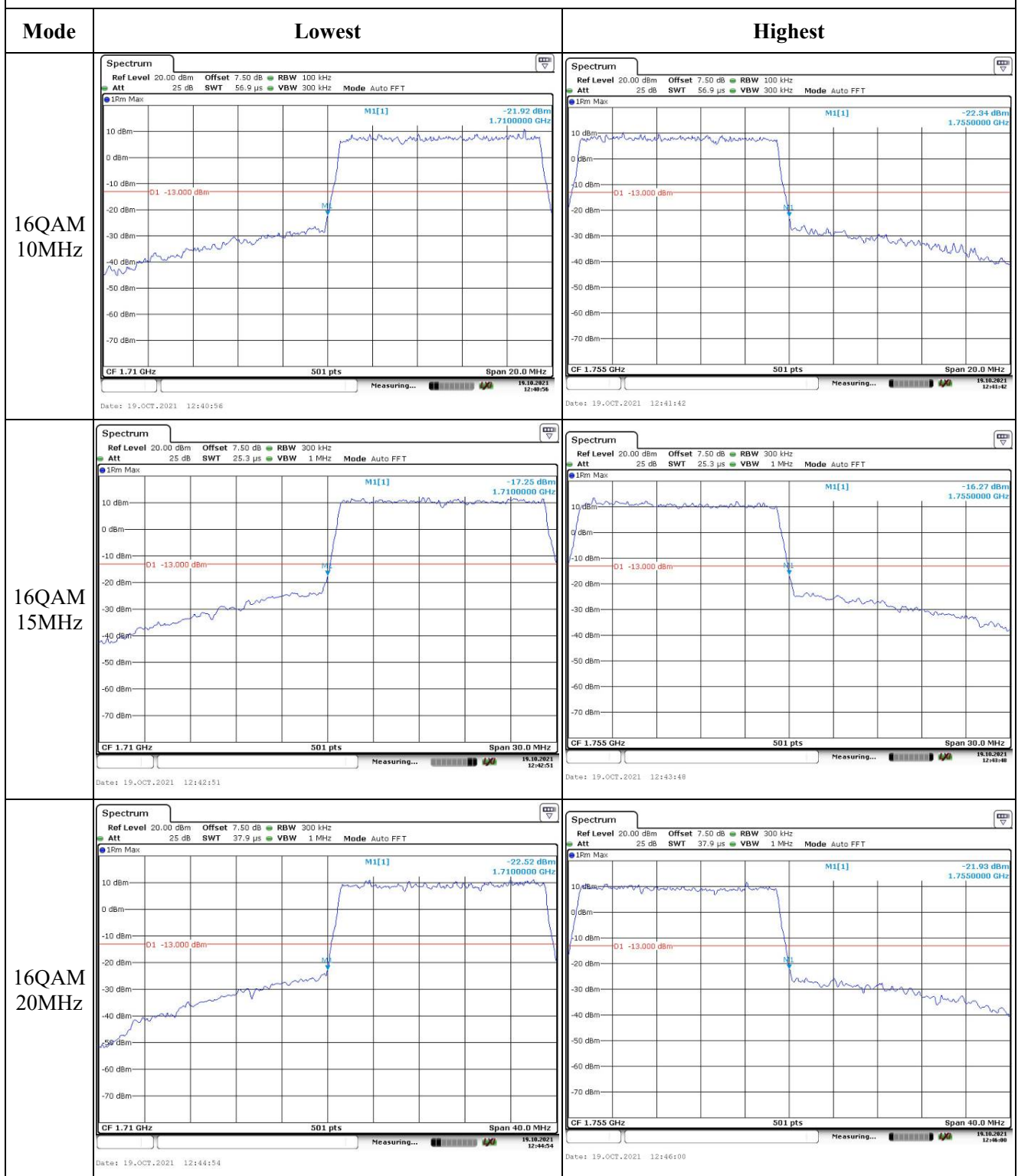
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 7:

Serial Number:	CR21090082-RF-S2	Test Date:	2021/10/19~2021/11/5
Test Site:	RF	Test Mode:	Transmitting
Tester:	Thor Lei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~27.8	Relative Humidity: (%)	52~62	ATM Pressure: (kPa)	100.8~102.1
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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	2021/7/22	2022/7/21
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021/7/22	2022/7/21
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021/7/22	2022/7/22
UNI-T	Multimeter	UT39A+	C210582554	2021/9/30	2022/9/30
E-Microwave	Two-way Splitter	ODP-1-6	OE0120176	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).

EUT Information@LTE Band 7▲:

Antenna Gain (dBi):	-0.39	Cable Loss (dB):	0.4
Operation Voltage(V _{DC}):			
Lowest:	3.6	Normal:	3.85
		Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

Test Data:**FCC§2.1046;§ 27.50(h)(2)****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		
5MHz QPSK	RB1#0	22.95	22.78	22.48	22.21	33
	RB1#13	23	22.69	22.46		
	RB1#24	22.95	22.72	22.5		
	RB15#0	22.14	21.71	21.64		
	RB15#10	22.1	21.79	21.62		
	RB25#0	21.97	21.68	21.68		
5MHz 16QAM	RB1#0	21.34	21.88	21.21	21.09	33
	RB1#13	21.26	21.74	21.23		
	RB1#24	21.19	21.77	21.2		
	RB15#0	21.15	20.68	20.7		
	RB15#10	21.1	20.73	20.7		
	RB25#0	21.2	20.79	20.62		
10MHz QPSK	RB1#0	22.85	22.73	22.65	22.09	33
	RB1#25	22.86	22.69	22.63		
	RB1#49	22.88	22.68	22.69		
	RB25#0	22.08	21.75	21.6		
	RB25#25	21.89	21.75	21.61		
	RB50#0	21.86	21.88	21.6		
10MHz 16QAM	RB1#0	22.22	21.98	21.16	21.43	33
	RB1#25	22.16	21.88	21.14		
	RB1#49	22.19	21.94	21.1		
	RB25#0	21.11	20.83	20.79		
	RB25#25	21.11	20.88	20.8		
	RB50#0	21.06	21	20.66		
15MHz QPSK	RB1#0	22.87	22.66	22.63	22.08	33
	RB1#38	22.87	22.7	22.7		
	RB1#74	22.84	22.66	22.69		
	RB36#0	22	21.69	21.58		
	RB36#39	21.87	21.69	21.58		
	RB75#0	22.03	21.77	21.65		

15MHz 16QAM	RB1#0	22.3	22.02	21.98	21.51	33
	RB1#38	22.3	22.05	21.97		
	RB1#74	22.13	22.08	22		
	RB36#0	21.08	20.87	20.64		
	RB36#39	21.07	20.97	20.67		
	RB75#0	21.07	20.79	20.66		
20MHz QPSK	RB1#0	23.09	22.72	22.72	22.3	33
	RB1#50	23.01	22.81	22.62		
	RB1#99	22.93	22.77	22.72		
	RB50#0	21.9	21.72	21.65		
	RB50#50	21.91	21.63	21.65		
	RB100#0	22.02	21.65	21.47		
20MHz 16QAM	RB1#0	21.94	22.2	22.21	21.46	33
	RB1#50	21.86	22.25	22.15		
	RB1#99	21.82	22.22	22.2		
	RB50#0	21.04	20.97	20.6		
	RB50#50	21.04	20.96	20.62		
	RB100#0	21.08	20.84	20.66		
					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	3.51	3.86	3.51	13
	RB100#0	4.61	4.96	4.49	13
20MHz 16QAM	RB1#0	4.12	5.07	4.64	13
	RB100#0	5.57	5.88	5.33	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	4.531	4.511	4.511	5	5.02	5
5MHz 16QAM	4.511	4.551	4.531	5.02	5	5.02
10MHz QPSK	8.981	8.942	8.981	9.8	9.359	9.8
10MHz 16QAM	8.942	8.942	8.981	9.72	9.8	9.88
15MHz QPSK	13.533	13.533	13.533	14.7	14.82	14.88
15MHz 16QAM	13.473	13.473	13.473	14.82	14.82	14.82
20MHz QPSK	17.964	17.964	17.964	19.68	19.6	19.68
20MHz 16QAM	17.964	18.044	17.964	19.6	19.76	19.68
Note: The test plots please refer to the Plots of Occupied Bandwidth						

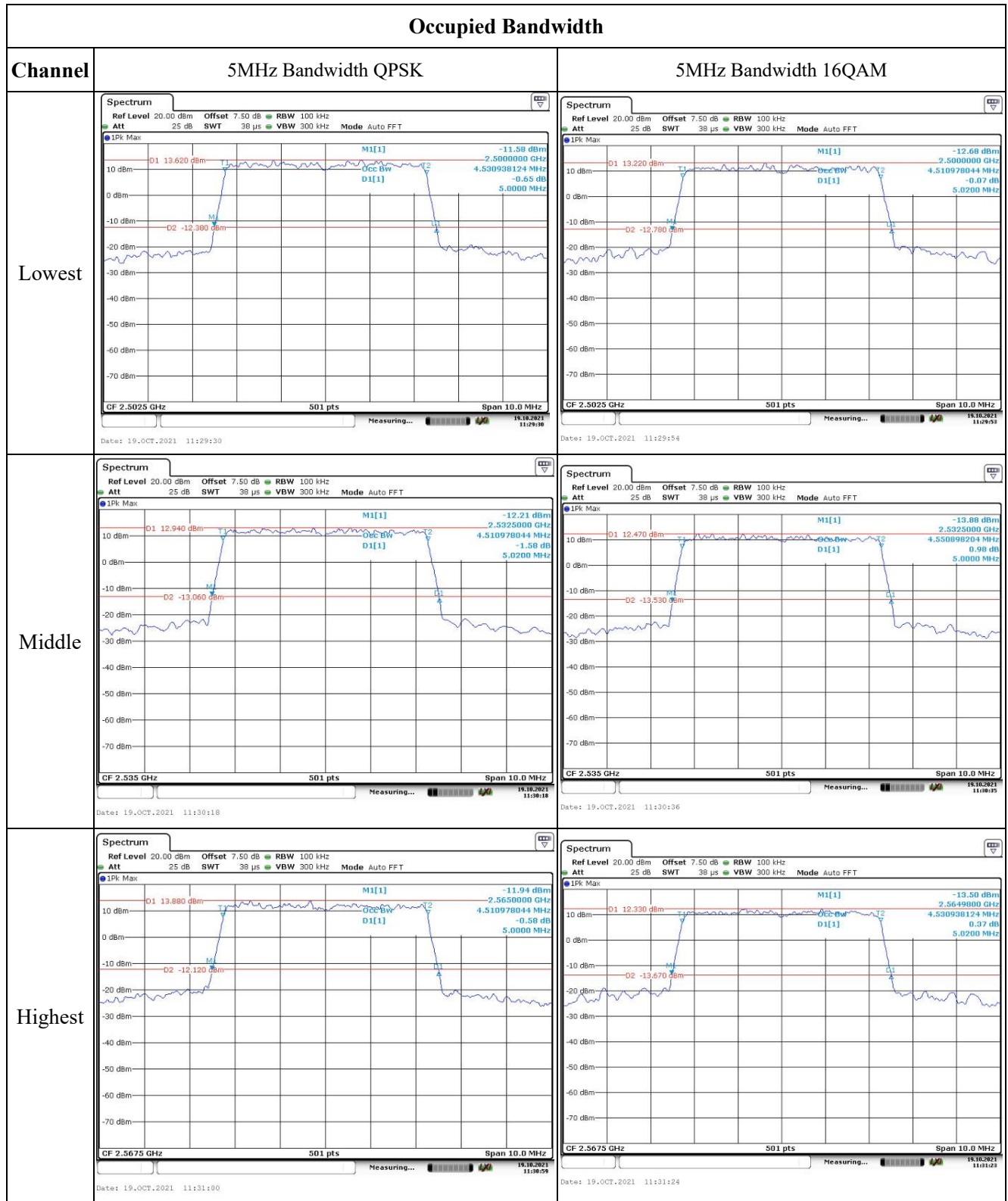
FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

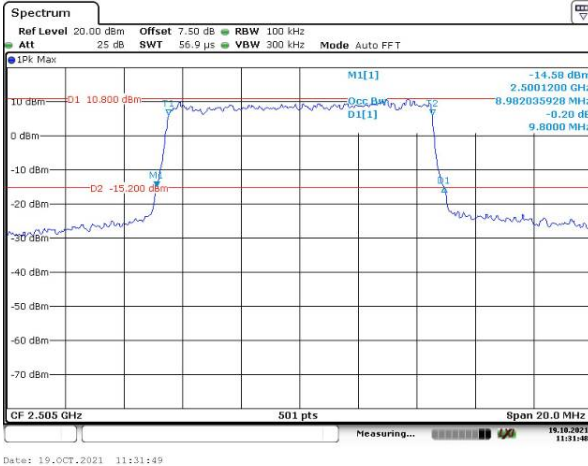
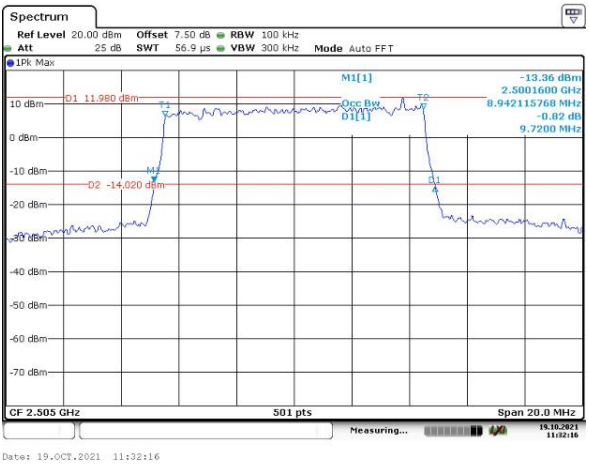
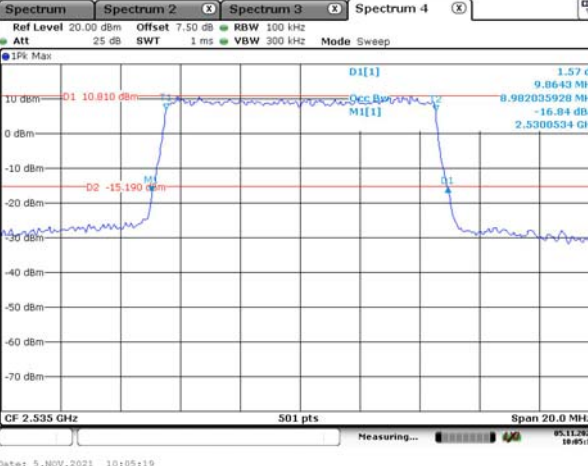
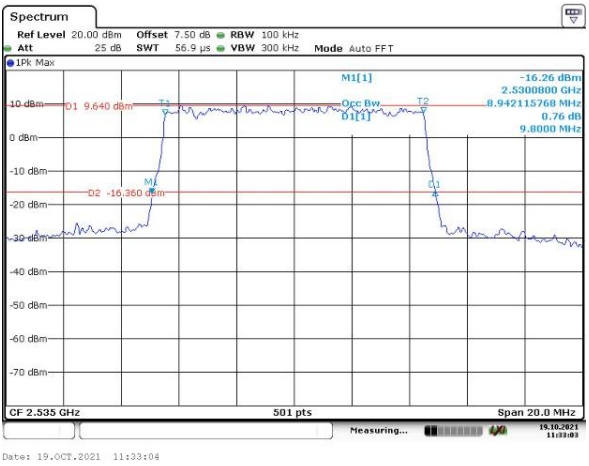
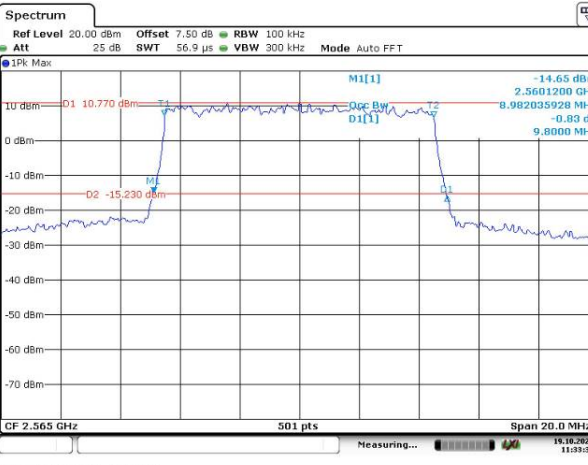
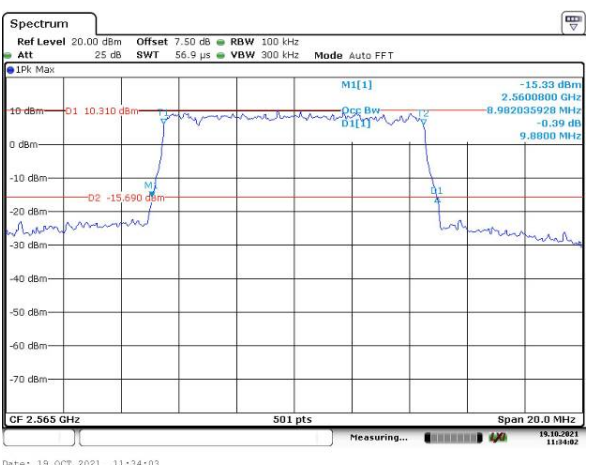
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2500.5281	2500.00	2569.4717	2570
	-20	3.85	2500.5285	2500.00	2569.4716	2570
	-10	3.85	2500.5284	2500.00	2569.4717	2570
	0	3.85	2500.5282	2500.00	2569.4712	2570
	10	3.85	2500.5283	2500.00	2569.4712	2570
	20	3.85	2500.5289	2500.00	2569.4711	2570
	30	3.85	2500.5287	2500.00	2569.4717	2570
	40	3.85	2500.5281	2500.00	2569.4716	2570
	50	3.85	2500.5292	2500.00	2569.4713	2570
Frequency Stability vs. Voltage	20	3.6	2500.5287	2500.00	2569.4715	2570
	20	4.4	2500.5285	2500.00	2569.4717	2570
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	3.85	2500.5281	2500.00	2569.4714	2570
	-20	3.85	2500.5282	2500.00	2569.4715	2570
	-10	3.85	2500.5284	2500.00	2569.4716	2570
	0	3.85	2500.5282	2500.00	2569.4714	2570
	10	3.85	2500.5286	2500.00	2569.4713	2570
	20	3.85	2500.5289	2500.00	2569.4711	2570
	30	3.85	2500.5287	2500.00	2569.4717	2570
	40	3.85	2500.5286	2500.00	2569.4714	2570
	50	3.85	2500.5281	2500.00	2569.4715	2570
Frequency Stability vs. Voltage	20	3.6	2500.5282	2500.00	2569.4716	2570
	20	4.4	2500.5287	2500.00	2569.4712	2570
Result:					Pass	

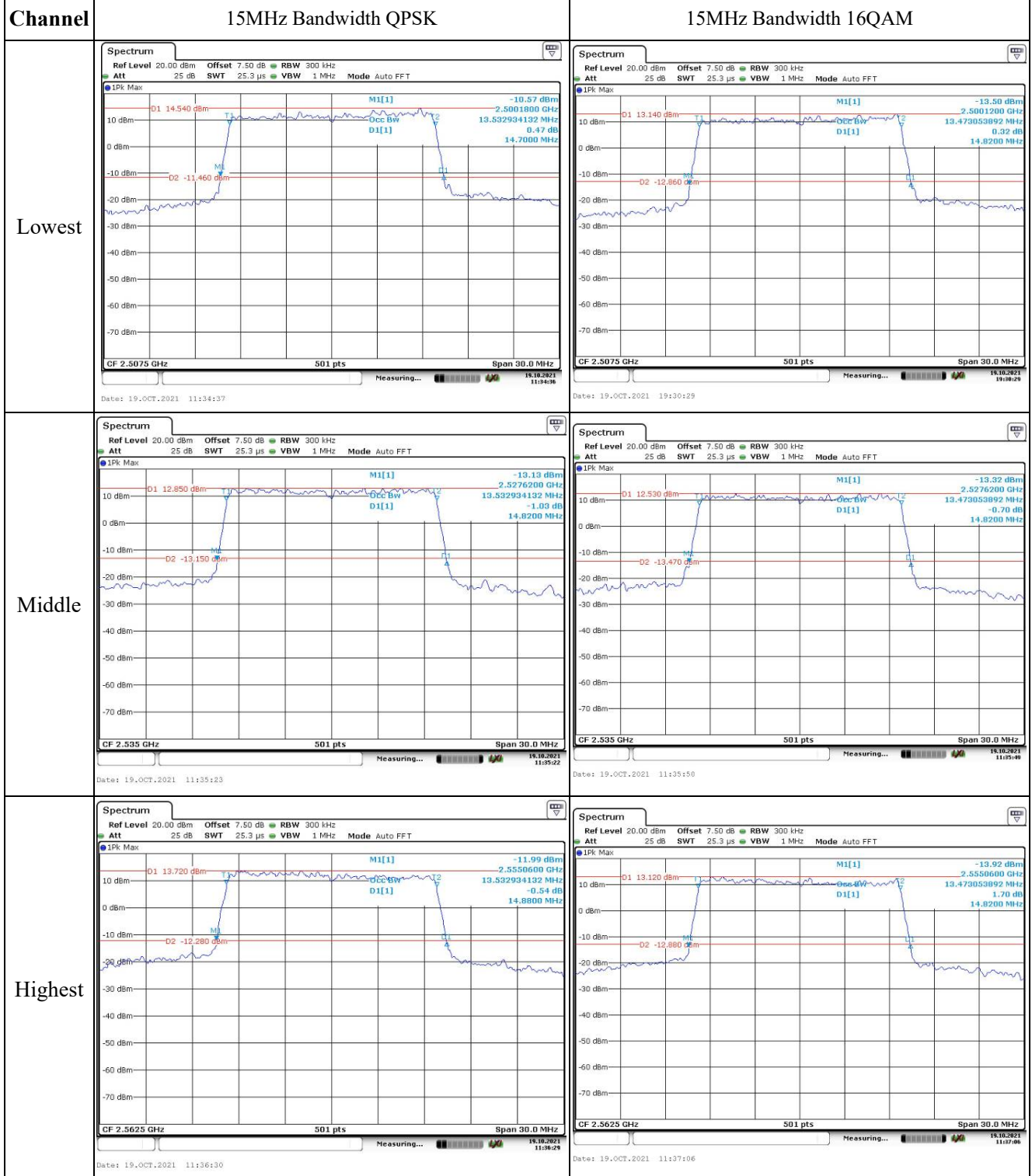
Test Plots:



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm D1 10.800 dBm M1[1] -14.58 dBm 2.5001200 GHz 8.982035920 MHz -0.20 dB 9.8000 MHz D1[1] CF 2.505 GHz 501 pts Span 20.0 MHz Date: 19.OCT.2021 11:31:49	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm D1 11.980 dBm M1[1] -13.36 dBm 2.5001600 GHz 8.942115768 MHz -0.82 dB 9.7200 MHz D1[1] CF 2.505 GHz 501 pts Span 20.0 MHz Date: 19.OCT.2021 11:32:16
Middle	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Pk Max 10 dBm D1 10.810 dBm M1[1] -15.190 dBm 2.5300534 GHz 8.982035920 MHz -16.84 dBm D1[1] CF 2.535 GHz 501 pts Span 20.0 MHz Date: 9.NOV.2021 10:05:19	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm D1 9.640 dBm M1[1] -16.26 dBm 2.5300800 GHz 8.942115768 MHz -0.76 dB 9.8000 MHz D1[1] CF 2.535 GHz 501 pts Span 20.0 MHz Date: 19.OCT.2021 11:03:04
Highest	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm D1 10.770 dBm M1[1] -14.65 dBm 2.5601200 GHz 8.982035920 MHz -0.83 dB 9.8000 MHz D1[1] CF 2.565 GHz 501 pts Span 20.0 MHz Date: 19.OCT.2021 11:33:32	 Spectrum Ref Level 20.00 dBm Offset 7.50 dB RBW 100 kHz Att 25 dB SWT 56.9 μs VBW 300 kHz Mode Auto FFT 1Pk Max 10 dBm D1 10.310 dBm M1[1] -15.33 dBm 2.5600800 GHz 8.982035920 MHz -0.39 dB 9.8000 MHz D1[1] CF 2.565 GHz 501 pts Span 20.0 MHz Date: 19.OCT.2021 11:34:03

Occupied Bandwidth



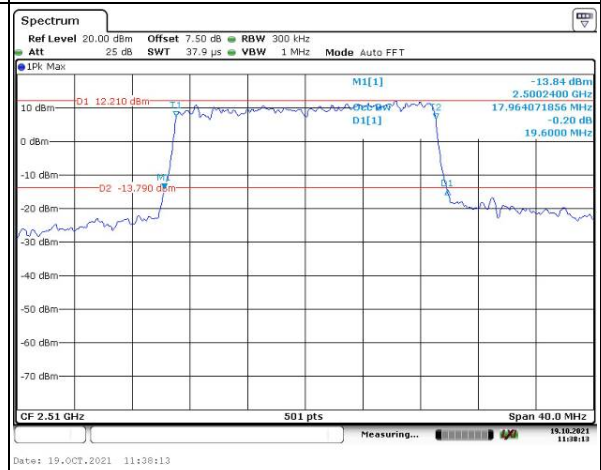
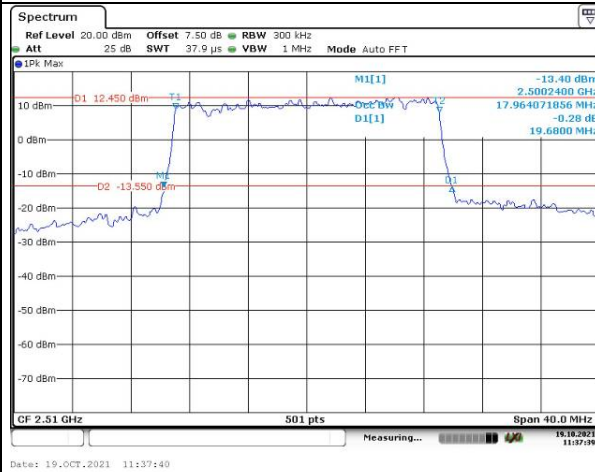
Occupied Bandwidth

Channel

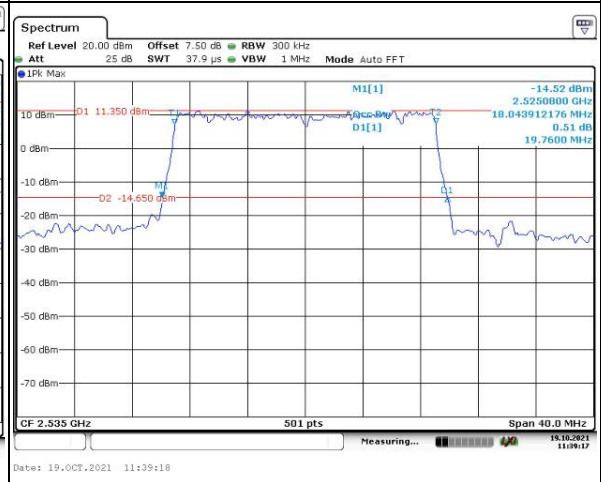
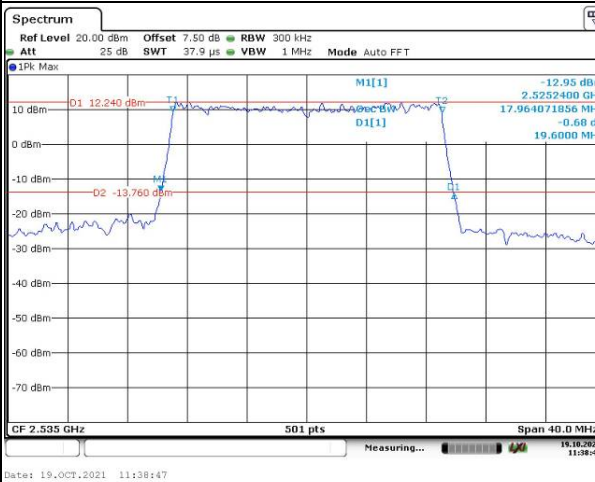
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

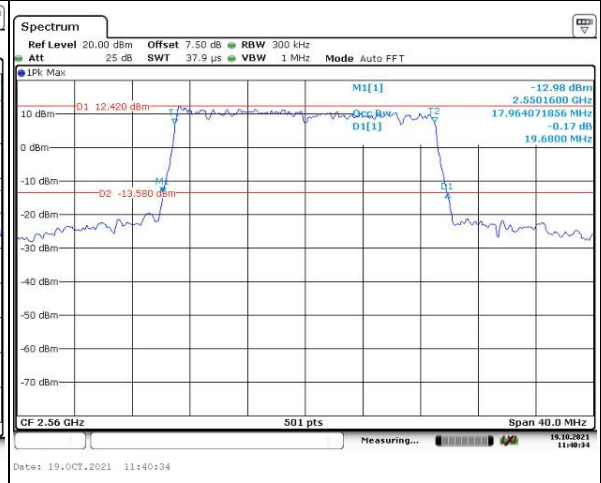
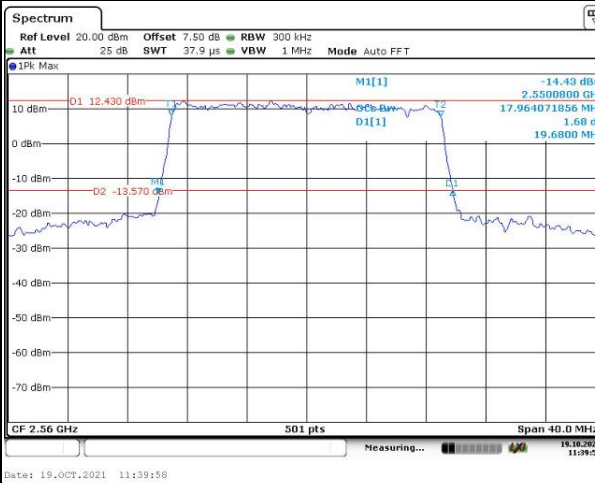
Lowest



Middle



Highest

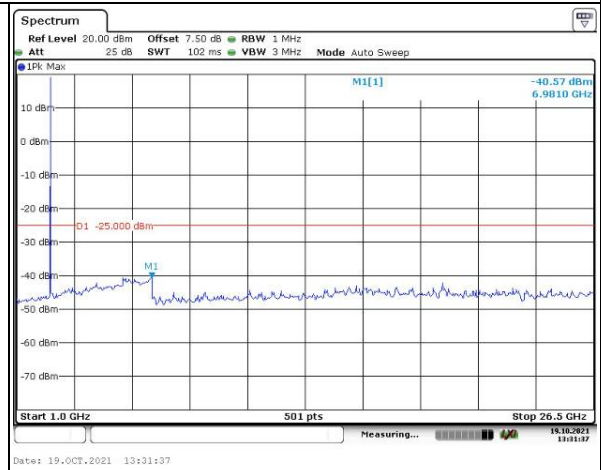
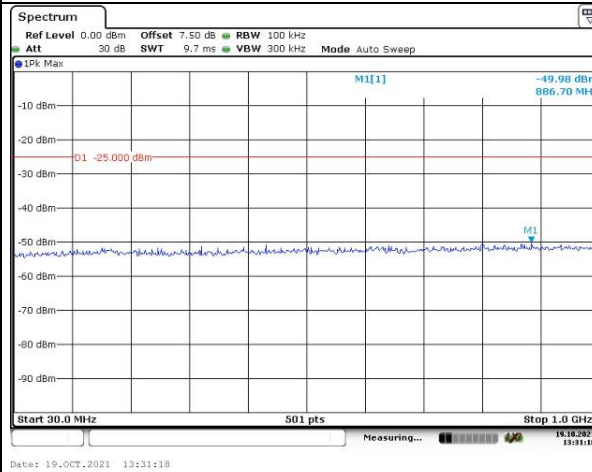


Spurious Emissions at Antenna Terminal

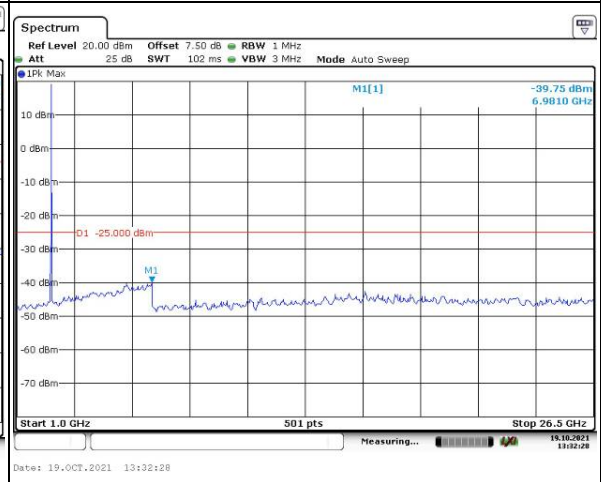
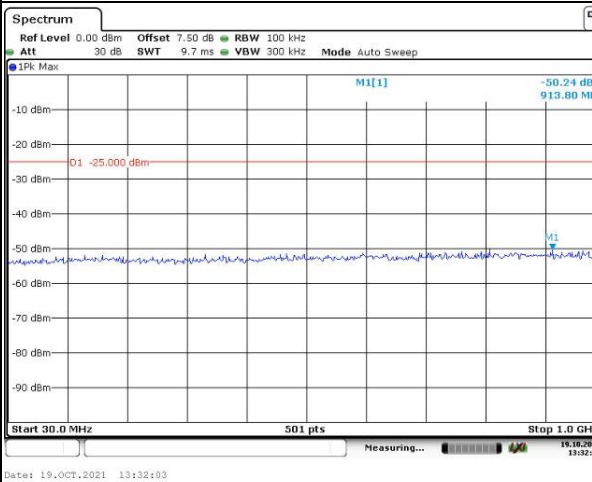
Channel

5MHz Bandwidth QPSK

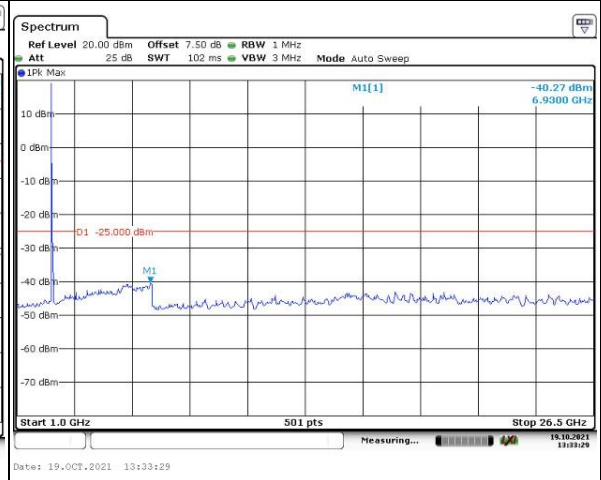
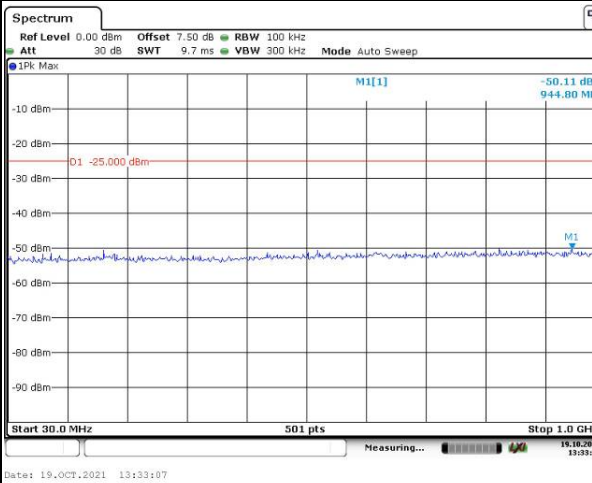
Lowest



Middle



Highest

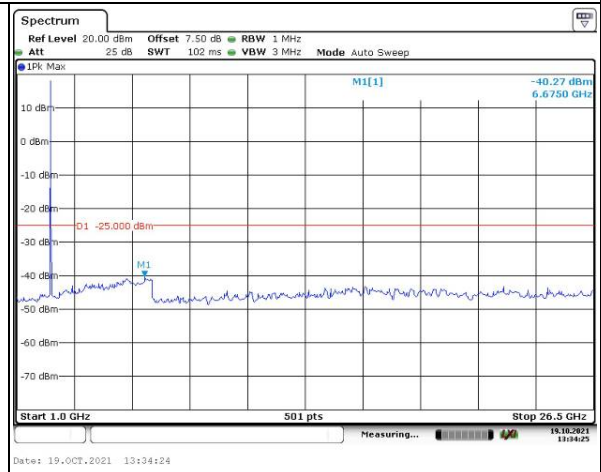
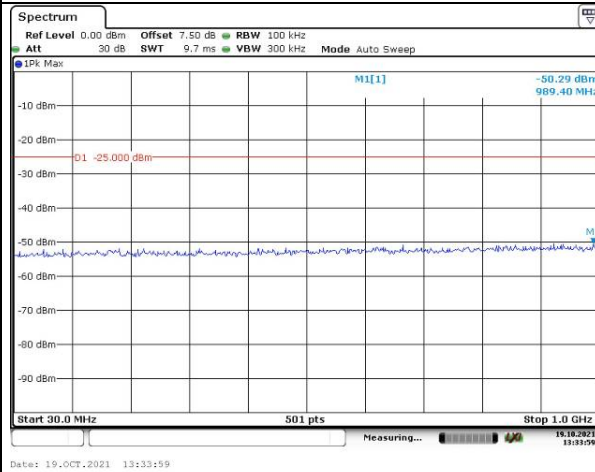


Spurious Emissions at Antenna Terminal

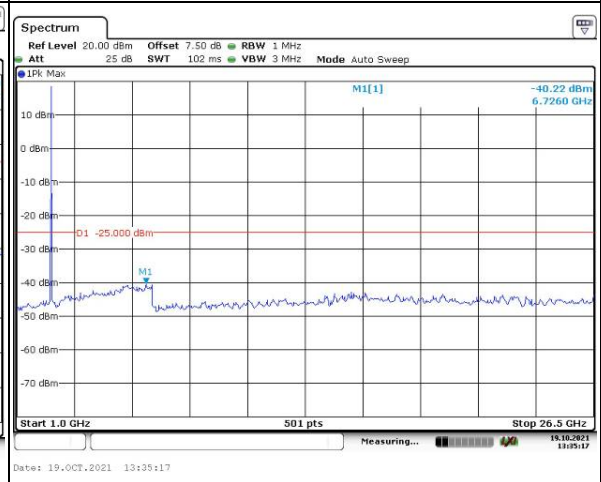
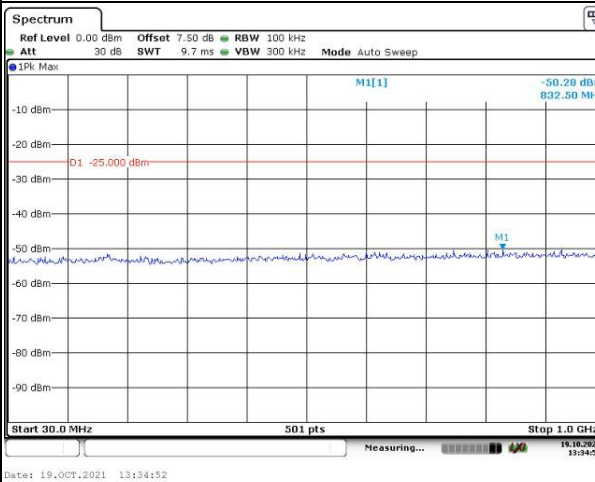
Channel

10MHz Bandwidth QPSK

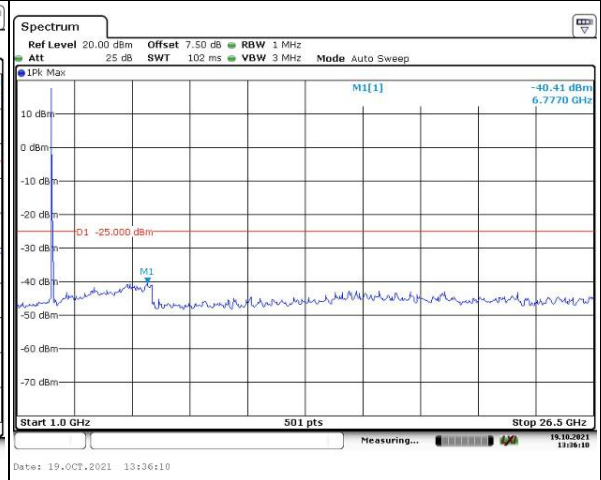
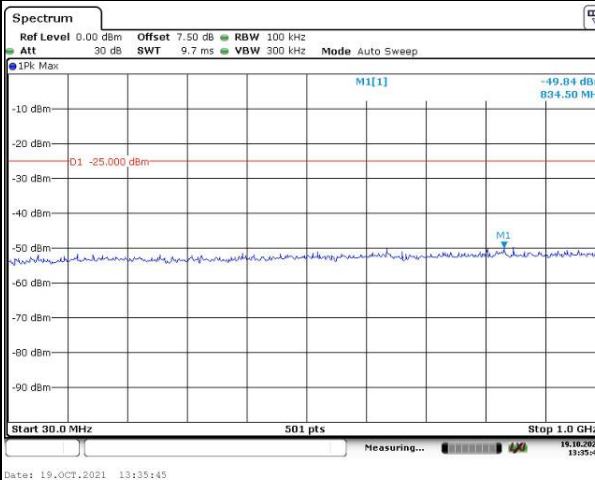
Lowest



Middle



Highest

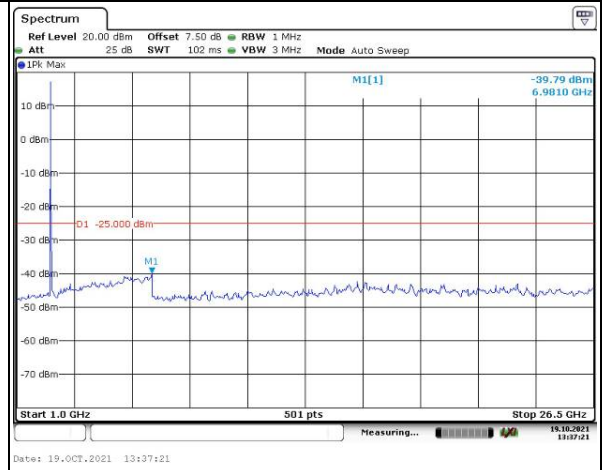
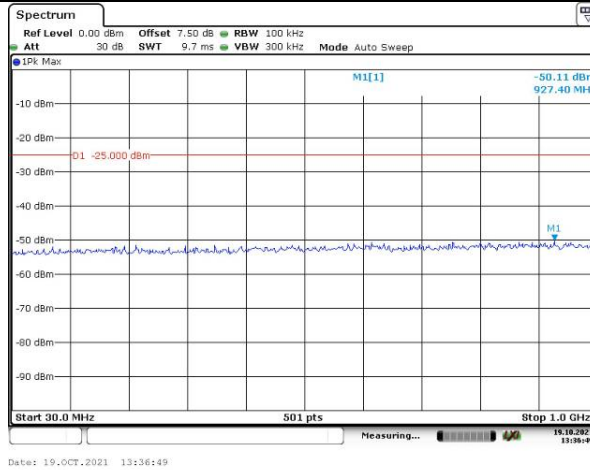


Spurious Emissions at Antenna Terminal

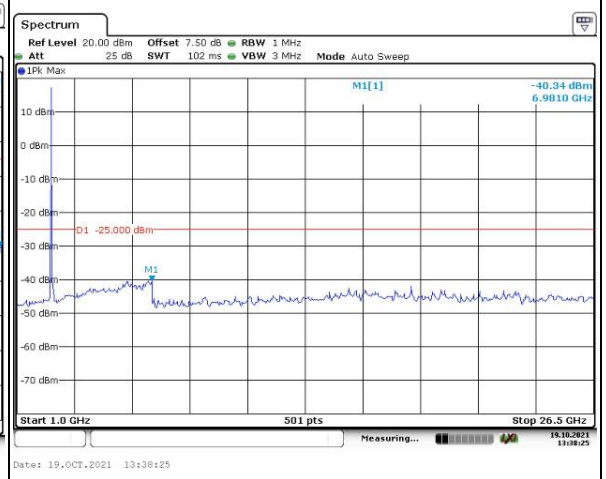
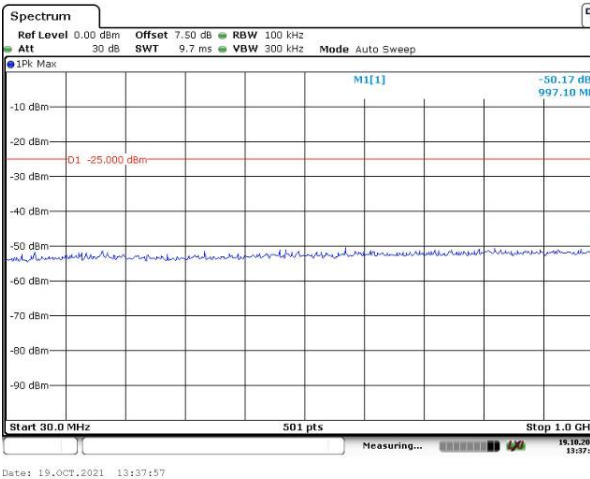
Channel

15MHz Bandwidth QPSK

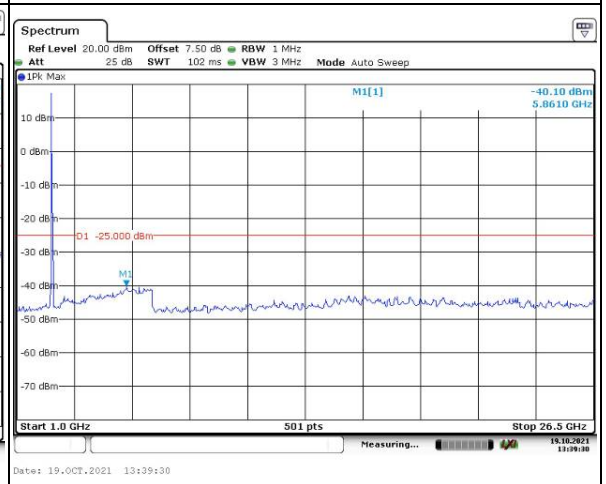
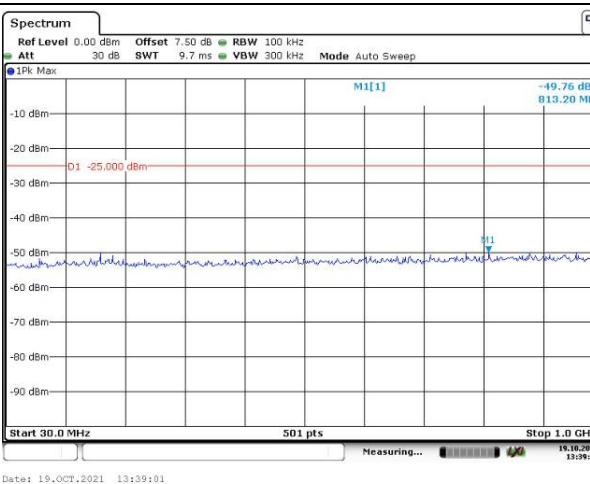
Lowest



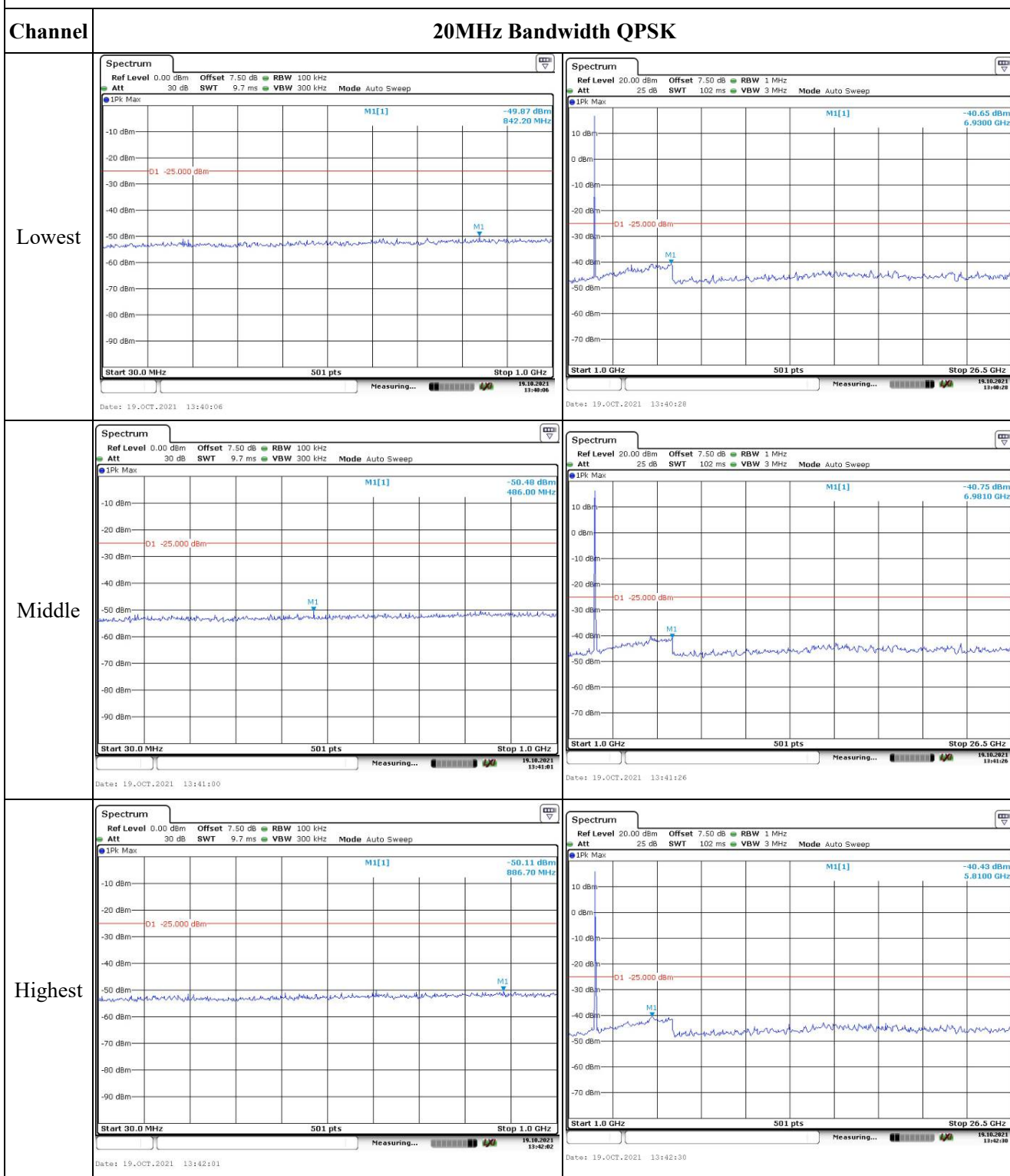
Middle



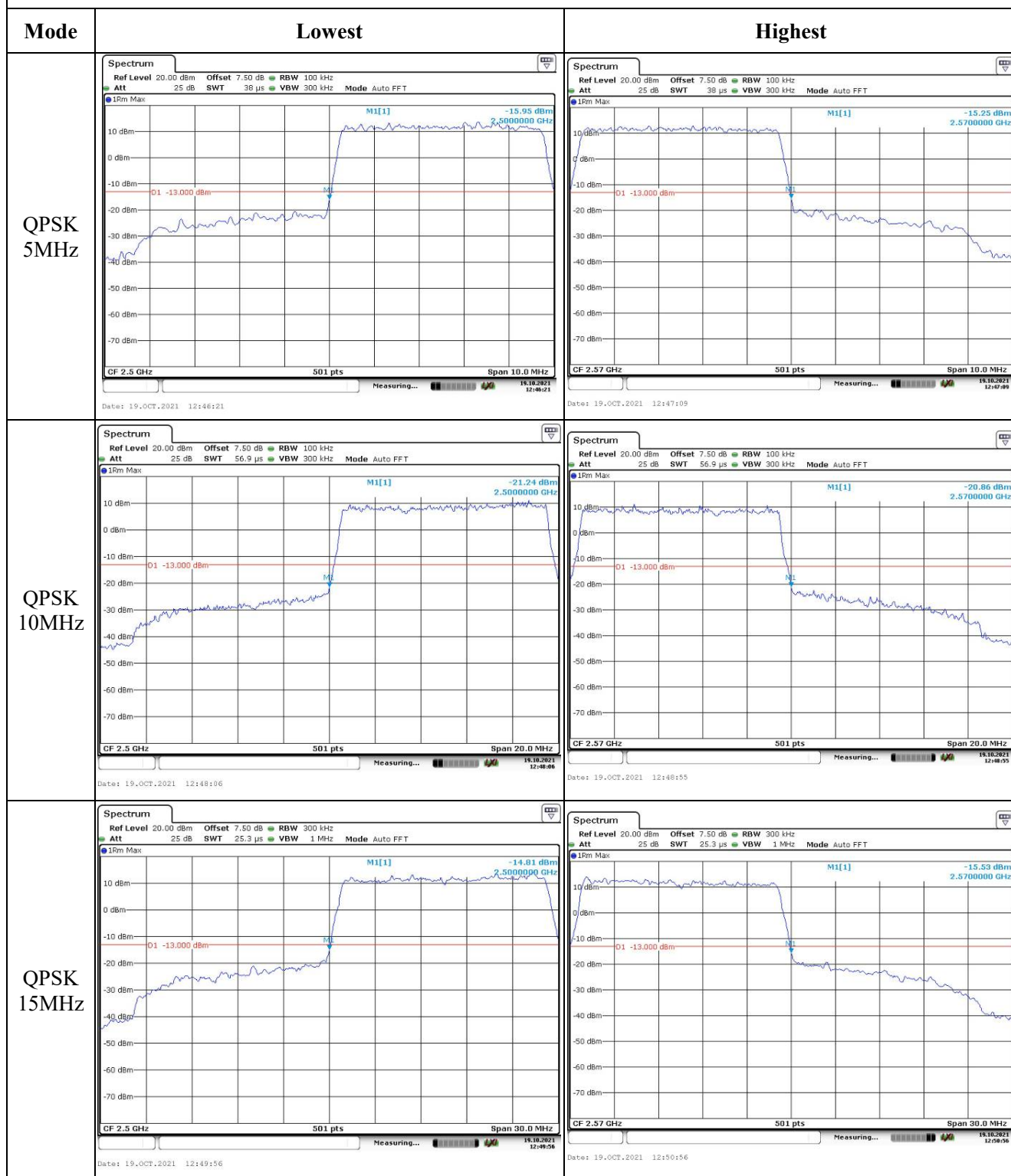
Highest



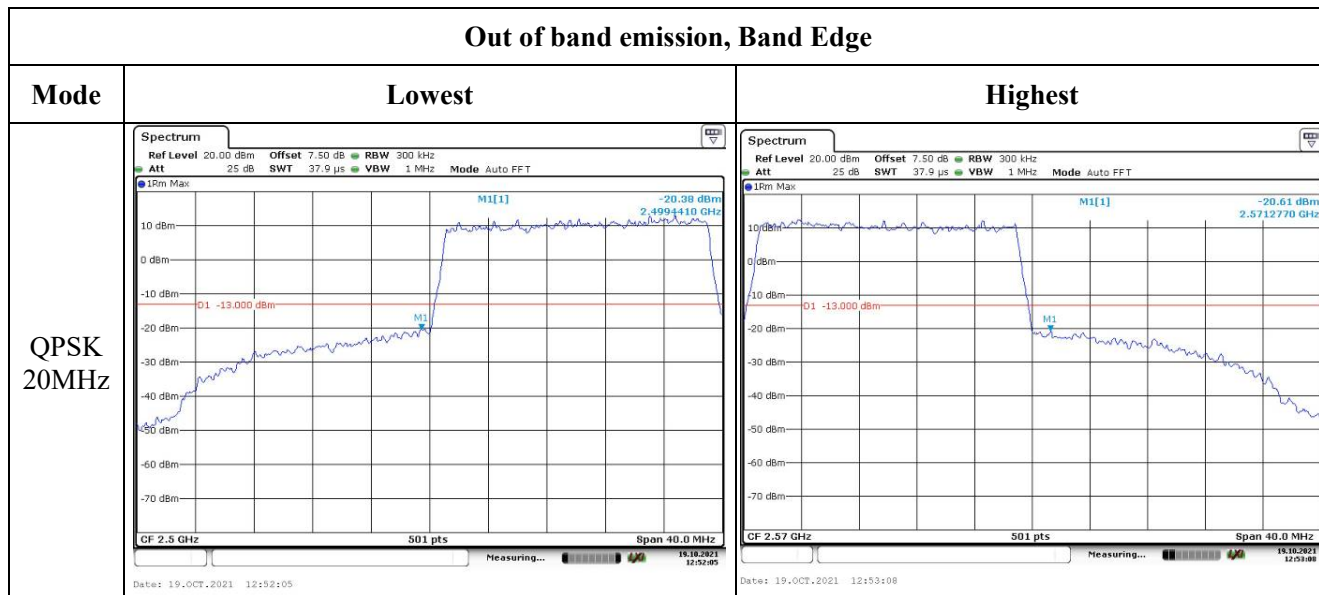
Spurious Emissions at Antenna Terminal



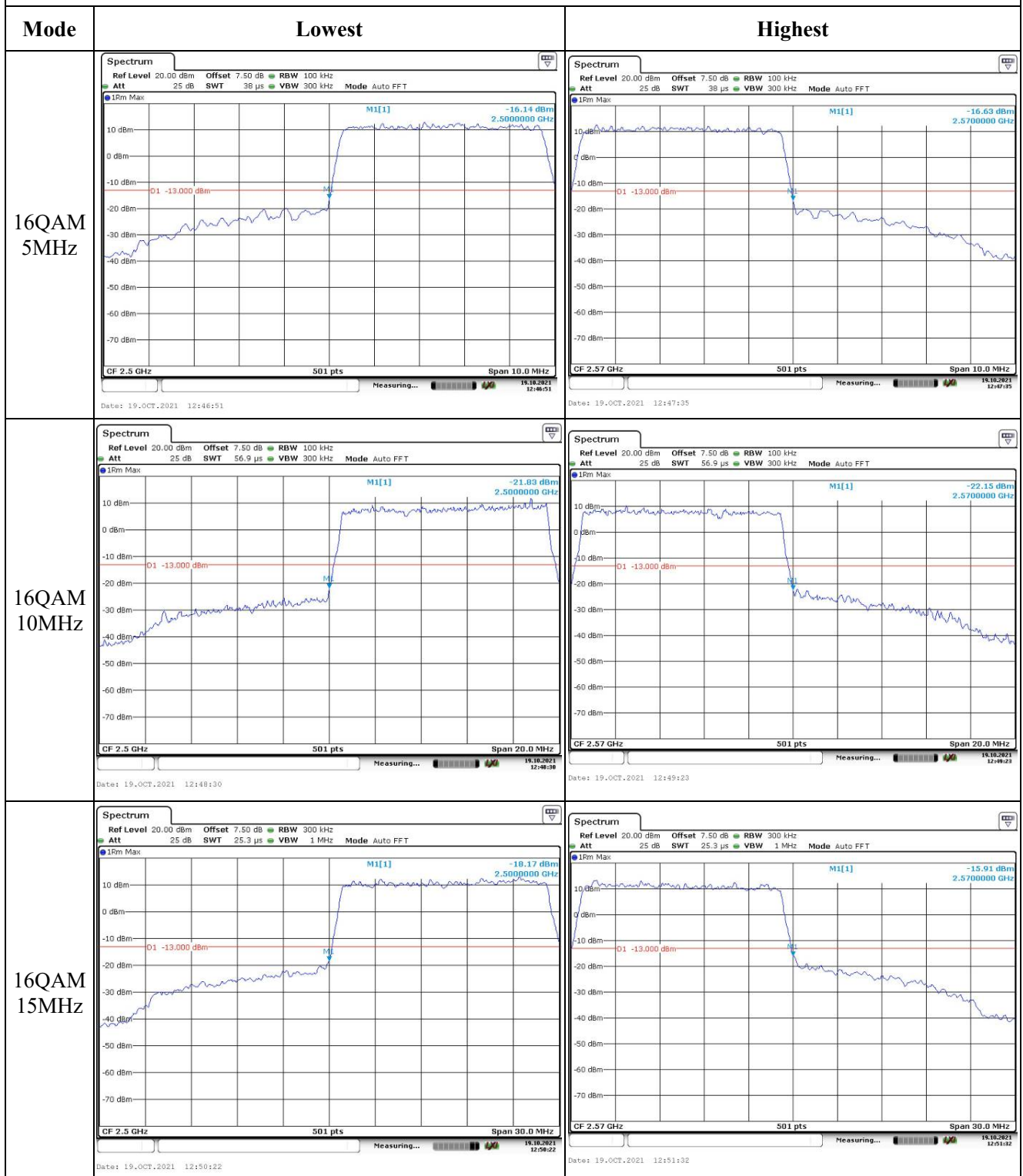
Out of band emission, Band Edge



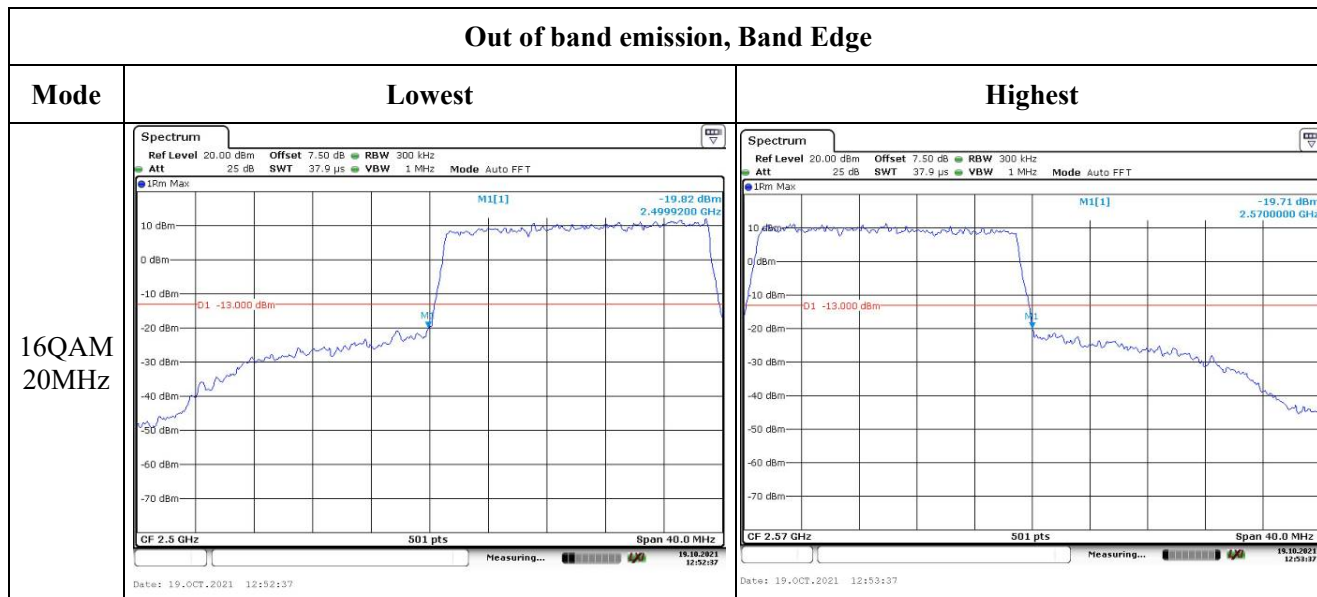
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.8 Spurious Emissions

Serial Number:	CR21090082-RF-S2	Test Date:	2021-10-03~2021-10-09
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Elan Lv, Alex Hu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	27.5~28.3	Relative Humidity: (%)	42~60	ATM Pressure: (kPa)	100.3~100.4
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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	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-08-08	2022-08-07
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2023-10-17
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2023-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24

Agilent	Signal Generator	E8247C	MY43321352	2021-04-25	2022-04-24
* 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:**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								
1648.40	H	59.68	-44.60	8.68	0.80	-36.72	-13.00	23.72
1648.40	V	55.79	-48.57	8.68	0.80	-40.69	-13.00	27.69
2472.60	H	67.95	-32.77	9.38	1.00	-24.39	-13.00	11.39
2472.60	V	72.95	-27.72	9.38	1.00	-19.34	-13.00	6.34
4121.00	H	55.65	-40.17	10.83	1.27	-30.61	-13.00	17.61
4121.00	V	57.78	-38.01	10.83	1.27	-28.45	-13.00	15.45
4945.20	H	45.62	-47.64	11.13	1.50	-38.01	-13.00	25.01
4945.20	V	43.58	-49.69	11.13	1.50	-40.06	-13.00	27.06
5769.40	H	65.39	-28.16	11.18	1.61	-18.59	-13.00	5.59
5769.40	V	66.95	-26.49	11.18	1.61	-16.92	-13.00	3.92
7417.80	H	40.95	-48.79	10.95	2.03	-39.87	-13.00	26.87
7417.80	V	46.95	-43.50	10.95	2.03	-34.58	-13.00	21.58
304.40	H	33.94	-76.71	0.00	0.34	-77.05	-13.00	64.05
50.40	V	33.72	-67.70	-14.72	0.12	-82.54	-13.00	69.54
GSM 850 Frequency:836.6MHz								
1673.20	H	59.62	-44.66	8.71	0.85	-36.80	-13.00	23.80
1673.20	V	55.62	-48.77	8.71	0.85	-40.91	-13.00	27.91
2509.80	H	72.55	-28.03	9.42	1.01	-19.62	-13.00	6.62
2509.80	V	75.65	-24.94	9.42	1.01	-16.53	-13.00	3.53
3346.40	H	41.99	-54.43	10.34	1.16	-45.25	-13.00	32.25
3346.40	V	44.67	-51.62	10.34	1.16	-42.44	-13.00	29.44
4183.00	H	57.64	-38.20	10.79	1.32	-28.73	-13.00	15.73
4183.00	V	61.57	-34.24	10.79	1.32	-24.77	-13.00	11.77
5019.60	H	47.95	-45.17	11.21	1.45	-35.41	-13.00	22.41
5019.60	V	42.62	-50.37	11.21	1.45	-40.61	-13.00	27.61
5856.20	H	67.85	-25.74	11.07	1.59	-16.26	-13.00	3.26
5856.20	V	65.36	-28.23	11.07	1.59	-18.75	-13.00	5.75
6692.80	H	36.87	-54.66	11.26	1.87	-45.27	-13.00	32.27
6692.80	V	36.35	-54.92	11.26	1.87	-45.53	-13.00	32.53
7529.40	H	43.65	-46.65	10.89	1.96	-37.72	-13.00	24.72
7529.40	V	49.42	-41.43	10.89	1.96	-32.50	-13.00	19.50
303.60	H	34.65	-76.02	0.00	0.34	-76.36	-13.00	63.36
49.80	V	34.68	-66.35	-15.10	0.12	-81.57	-13.00	68.57

GSM 850 Frequency:848.8MHz								
1697.60	H	59.84	-44.45	8.74	0.90	-36.61	-13.00	23.61
1697.60	V	54.95	-49.47	8.74	0.90	-41.63	-13.00	28.63
2546.40	H	69.84	-30.43	9.47	1.01	-21.97	-13.00	8.97
2546.40	V	74.95	-25.28	9.47	1.01	-16.82	-13.00	3.82
3395.20	H	41.86	-54.92	10.36	1.19	-45.75	-13.00	32.75
3395.20	V	46.95	-49.80	10.36	1.19	-40.63	-13.00	27.63
4244.00	H	58.95	-37.11	10.75	1.30	-27.66	-13.00	14.66
4244.00	V	60.67	-35.32	10.75	1.30	-25.87	-13.00	12.87
5092.80	H	42.93	-50.44	11.26	1.53	-40.71	-13.00	27.71
5092.80	V	44.36	-48.92	11.26	1.53	-39.19	-13.00	26.19
5941.60	H	68.43	-24.81	10.97	1.63	-15.47	-13.00	2.47
5941.60	V	65.06	-28.16	10.97	1.63	-18.82	-13.00	5.82
6790.40	H	36.95	-54.96	11.24	1.83	-45.55	-13.00	32.55
6790.40	V	36.54	-55.19	11.24	1.83	-45.78	-13.00	32.78
7639.20	H	40.05	-50.01	10.87	2.05	-41.19	-13.00	28.19
7639.20	V	45.42	-45.34	10.87	2.05	-36.52	-13.00	23.52
300.80	H	33.68	-77.03	0.00	0.34	-77.37	-13.00	64.37
51.60	V	34.58	-67.41	-14.16	0.13	-81.70	-13.00	68.70

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								
1652.80	H	36.35	-67.93	8.68	0.81	-60.06	-13.00	47.06
1652.80	V	35.87	-68.49	8.68	0.81	-60.62	-13.00	47.62
2479.20	H	36.15	-64.56	9.39	1.01	-56.18	-13.00	43.18
2479.20	V	35.72	-64.96	9.39	1.01	-56.58	-13.00	43.58
3305.60	H	36.01	-60.11	10.32	1.15	-50.94	-13.00	37.94
3305.60	V	35.41	-60.48	10.32	1.15	-51.31	-13.00	38.31
162.70	H	46.31	-65.41	0.00	0.24	-65.65	-13.00	52.65
46.10	V	49.71	-47.67	-18.72	0.12	-66.51	-13.00	53.51
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	36.25	-68.03	8.71	0.85	-60.17	-13.00	47.17
1673.20	V	35.78	-68.61	8.71	0.85	-60.75	-13.00	47.75
2509.80	H	36.12	-64.46	9.42	1.01	-56.05	-13.00	43.05
2509.80	V	35.76	-64.83	9.42	1.01	-56.42	-13.00	43.42
3346.40	H	35.91	-60.51	10.34	1.16	-51.33	-13.00	38.33
3346.40	V	35.33	-60.96	10.34	1.16	-51.78	-13.00	38.78
79.80	H	45.26	-64.40	-0.10	0.16	-64.66	-13.00	51.66
158.40	V	44.93	-63.39	0.00	0.23	-63.62	-13.00	50.62
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	36.16	-68.13	8.73	0.89	-60.29	-13.00	47.29
1693.20	V	35.87	-68.54	8.73	0.89	-60.70	-13.00	47.70
2539.80	H	36.16	-64.17	9.46	1.01	-55.72	-13.00	42.72
2539.80	V	35.74	-64.55	9.46	1.01	-56.10	-13.00	43.10
3386.40	H	36.02	-60.70	10.35	1.18	-51.53	-13.00	38.53
3386.40	V	35.24	-61.43	10.35	1.18	-52.26	-13.00	39.26
223.00	H	44.50	-67.93	0.00	0.28	-68.21	-13.00	55.21
224.40	V	45.36	-64.75	0.00	0.28	-65.03	-13.00	52.03

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								
3700.40	H	39.68	-56.81	10.60	1.25	-47.46	-13.00	34.46
3700.40	V	37.85	-58.62	10.60	1.25	-49.27	-13.00	36.27
5550.60	H	40.79	-52.25	11.44	1.49	-42.30	-13.00	29.30
5550.60	V	39.75	-53.12	11.44	1.49	-43.17	-13.00	30.17
228.60	H	32.52	-79.80	0.00	0.29	-80.09	-13.00	67.09
36.30	V	41.67	-44.54	-24.62	0.11	-69.27	-13.00	56.27
GSM 1900 Frequency:1880MHz								
3760.00	H	37.79	-57.87	10.66	1.24	-48.45	-13.00	35.45
3760.00	V	34.86	-60.68	10.66	1.24	-51.26	-13.00	38.26
5640.00	H	37.95	-55.32	11.33	1.54	-45.53	-13.00	32.53
5640.00	V	36.58	-56.57	11.33	1.54	-46.78	-13.00	33.78
121.90	H	32.88	-79.23	0.00	0.20	-79.43	-13.00	66.43
57.40	V	37.57	-67.20	-11.50	0.14	-78.84	-13.00	65.84
GSM 1900 Frequency:1909.8MHz								
3819.60	H	34.28	-60.92	10.72	1.29	-51.49	-13.00	38.49
3819.60	V	34.87	-60.18	10.72	1.29	-50.75	-13.00	37.75
5729.40	H	37.79	-55.71	11.22	1.59	-46.08	-13.00	33.08
5729.40	V	35.93	-57.44	11.22	1.59	-47.81	-13.00	34.81
231.40	H	32.04	-80.23	0.00	0.29	-80.52	-13.00	67.52
79.80	V	36.53	-71.93	-0.10	0.16	-72.19	-13.00	59.19

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								
3704.80	H	36.76	-59.67	10.60	1.25	-50.32	-13.00	37.32
3704.80	V	36.20	-60.21	10.60	1.25	-50.86	-13.00	37.86
5557.20	H	36.38	-56.67	11.43	1.49	-46.73	-13.00	33.73
5557.20	V	35.81	-57.08	11.43	1.49	-47.14	-13.00	34.14
162.70	H	47.78	-63.94	0.00	0.24	-64.18	-13.00	51.18
44.70	V	49.52	-46.39	-20.20	0.12	-66.71	-13.00	53.71
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	36.58	-59.08	10.66	1.24	-49.66	-13.00	36.66
3760.00	V	36.25	-59.29	10.66	1.24	-49.87	-13.00	36.87
5640.00	H	36.21	-57.06	11.33	1.54	-47.27	-13.00	34.27
5640.00	V	35.96	-57.19	11.33	1.54	-47.40	-13.00	34.40
220.20	H	46.38	-66.11	0.00	0.27	-66.38	-13.00	53.38
158.40	V	45.72	-62.60	0.00	0.23	-62.83	-13.00	49.83
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	36.62	-58.55	10.72	1.29	-49.12	-13.00	36.12
3815.20	V	36.26	-58.76	10.72	1.29	-49.33	-13.00	36.33
5722.80	H	36.24	-57.25	11.23	1.58	-47.60	-13.00	34.60
5722.80	V	35.73	-57.63	11.23	1.58	-47.98	-13.00	34.98
176.70	H	44.37	-67.97	0.00	0.25	-68.22	-13.00	55.22
46.90	V	48.67	-49.50	-17.94	0.12	-67.56	-13.00	54.56

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

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)			
Worst QPSK,Frequency:1850.7 MHz								
3701.40	H	36.84	-59.64	10.60	1.25	-50.29	-13.00	37.29
3701.40	V	35.85	-60.61	10.60	1.25	-51.26	-13.00	38.26
5552.10	H	36.21	-56.83	11.44	1.49	-46.88	-13.00	33.88
5552.10	V	35.60	-57.28	11.44	1.49	-47.33	-13.00	34.33
223.00	H	35.12	-77.31	0.00	0.28	-77.59	-13.00	64.59
33.50	V	42.38	-41.05	-24.69	0.11	-65.85	-13.00	52.85
Worst QPSK,Frequency:1880 MHz								
3760.00	H	37.10	-58.56	10.66	1.24	-49.14	-13.00	36.14
3760.00	V	36.58	-58.96	10.66	1.24	-49.54	-13.00	36.54
5640.00	H	36.53	-56.74	11.33	1.54	-46.95	-13.00	33.95
5640.00	V	35.85	-57.30	11.33	1.54	-47.51	-13.00	34.51
148.60	H	39.56	-72.44	0.00	0.22	-72.66	-13.00	59.66
35.60	V	43.16	-42.37	-24.29	0.11	-66.77	-13.00	53.77
Worst QPSK,Frequency:1909.3 MHz								
3818.60	H	36.64	-58.55	10.72	1.29	-49.12	-13.00	36.12
3818.60	V	36.43	-58.61	10.72	1.29	-49.18	-13.00	36.18
5727.90	H	36.42	-57.08	11.23	1.59	-47.44	-13.00	34.44
5727.90	V	36.21	-57.16	11.23	1.59	-47.52	-13.00	34.52
176.86	H	41.32	-71.03	0.00	0.25	-71.28	-13.00	58.28
34.68	V	41.89	-42.73	-24.15	0.11	-66.99	-13.00	53.99

LTE Band 4 (30MHz-20GHz):

D12 Band 1 (Continued)								
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)			
Worst QPSK, Frequency: 1710.7 MHz								
3421.40	H	36.35	-60.47	10.37	1.17	-51.27	-13.00	38.27
3421.40	V	36.19	-60.60	10.37	1.17	-51.40	-13.00	38.40
5132.10	H	36.05	-57.52	11.28	1.47	-47.71	-13.00	34.71
5132.10	V	35.78	-57.68	11.28	1.47	-47.87	-13.00	34.87
225.80	H	32.14	-80.24	0.00	0.28	-80.52	-13.00	67.52
36.30	V	33.07	-53.14	-24.62	0.11	-77.87	-13.00	64.87
Worst QPSK, Frequency: 1732.5 MHz								
3465.00	H	36.32	-60.51	10.39	1.15	-51.27	-13.00	38.27
3465.00	V	36.11	-60.67	10.39	1.15	-51.43	-13.00	38.43
5197.50	H	36.17	-57.76	11.32	1.44	-47.88	-13.00	34.88
5197.50	V	35.85	-57.93	11.32	1.44	-48.05	-13.00	35.05
232.80	H	34.38	-77.86	0.00	0.29	-78.15	-13.00	65.15
32.10	V	44.60	-37.43	-25.33	0.10	-62.86	-13.00	49.86
Worst QPSK, Frequency: 1754.3 MHz								
3508.60	H	36.21	-60.59	10.41	1.19	-51.37	-13.00	38.37
3508.60	V	36.10	-60.63	10.41	1.19	-51.41	-13.00	38.41
5262.90	H	36.29	-57.44	11.36	1.47	-47.55	-13.00	34.55
5262.90	V	36.01	-57.49	11.36	1.47	-47.60	-13.00	34.60
129.00	H	33.42	-78.76	0.00	0.21	-78.97	-13.00	65.97
53.20	V	37.68	-65.08	-13.43	0.13	-78.64	-13.00	65.64

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)			
Worst QPSK, Frequency: 2502.5 MHz								
5005.00	H	35.68	-57.39	11.20	1.47	-47.66	-25.00	22.66
5005.00	V	35.29	-57.64	11.20	1.47	-47.91	-25.00	22.91
7507.50	H	35.17	-55.21	10.90	1.95	-46.26	-25.00	21.26
7507.50	V	34.93	-55.95	10.90	1.95	-47.00	-25.00	22.00
130.40	H	33.68	-78.52	0.00	0.21	-78.73	-25.00	53.73
34.90	V	33.08	-51.76	-24.05	0.11	-75.92	-25.00	50.92
Worst QPSK, Frequency:2535 MHz								
5070.00	H	35.58	-57.72	11.24	1.47	-47.95	-25.00	22.95
5070.00	V	35.49	-57.70	11.24	1.47	-47.93	-25.00	22.93
7605.00	H	35.34	-54.71	10.88	2.01	-45.84	-25.00	20.84
7605.00	V	35.03	-55.74	10.88	2.01	-46.87	-25.00	21.87
237.10	H	34.35	-77.81	0.00	0.29	-78.10	-25.00	53.10
50.40	V	33.52	-67.90	-14.72	0.12	-82.74	-25.00	57.74
Worst QPSK, Frequency: 2567.5 MHz								
5135.00	H	36.00	-57.59	11.28	1.47	-47.78	-25.00	22.78
5135.00	V	35.22	-58.26	11.28	1.47	-48.45	-25.00	23.45
7702.50	H	35.15	-54.92	10.86	1.97	-46.03	-25.00	21.03
7702.50	V	35.31	-55.43	10.86	1.97	-46.54	-25.00	21.54
124.80	H	35.24	-76.90	0.00	0.21	-77.11	-25.00	52.11
89.70	V	34.06	-75.25	0.00	0.18	-75.43	-25.00	50.43

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

5. RF EXPOSURE EVALUATION

5.1 Applicable Standard

FCC§1.1310 and §2.1093.

Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy levels in excess of the Commission's guidelines. See §1.1307(b)(1) of this chapter.

5.3 Measurement Result

Result: Compliance. Please refer to the SAR report: CR21090082-SA.

******* END OF REPORT *******