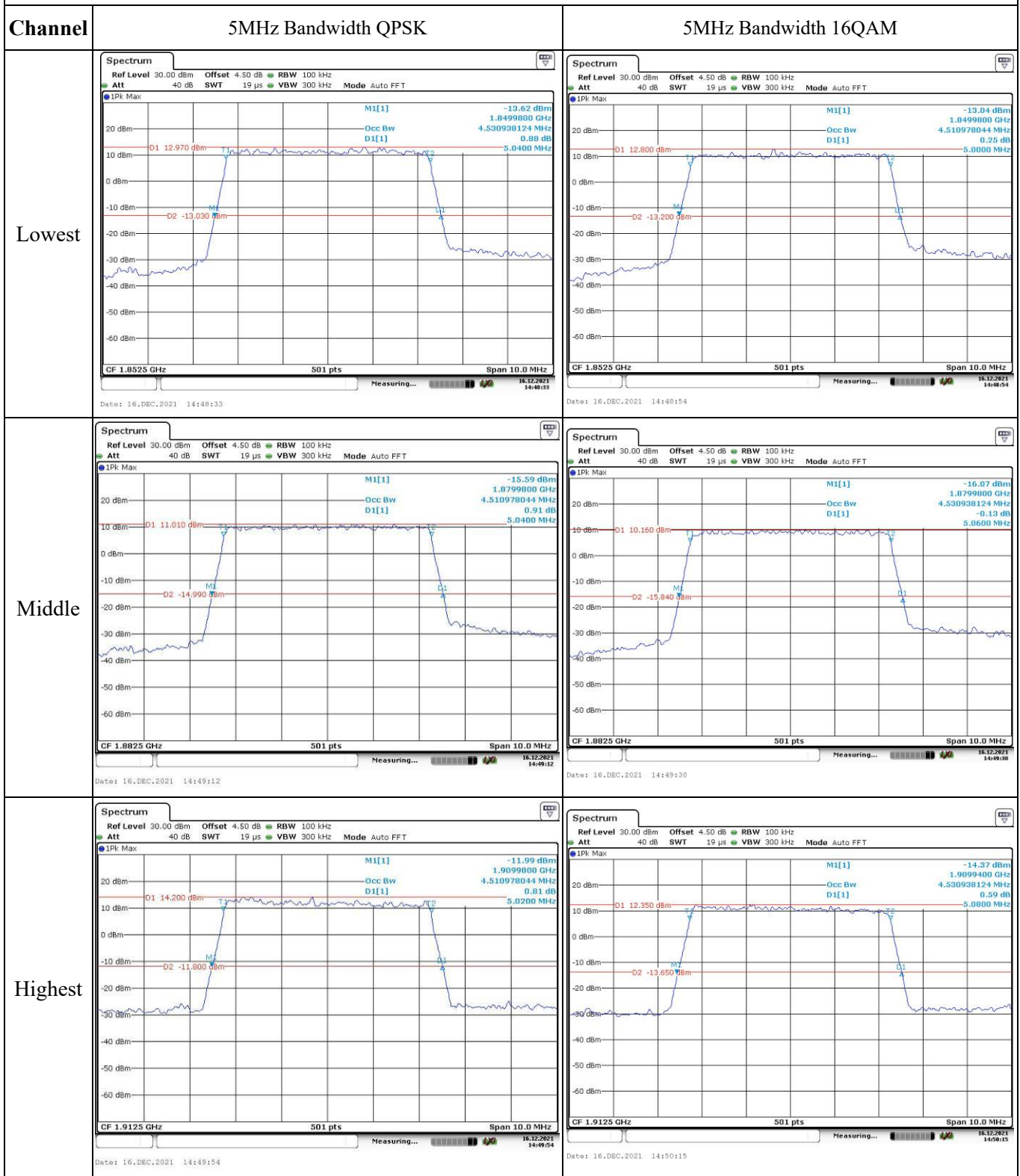
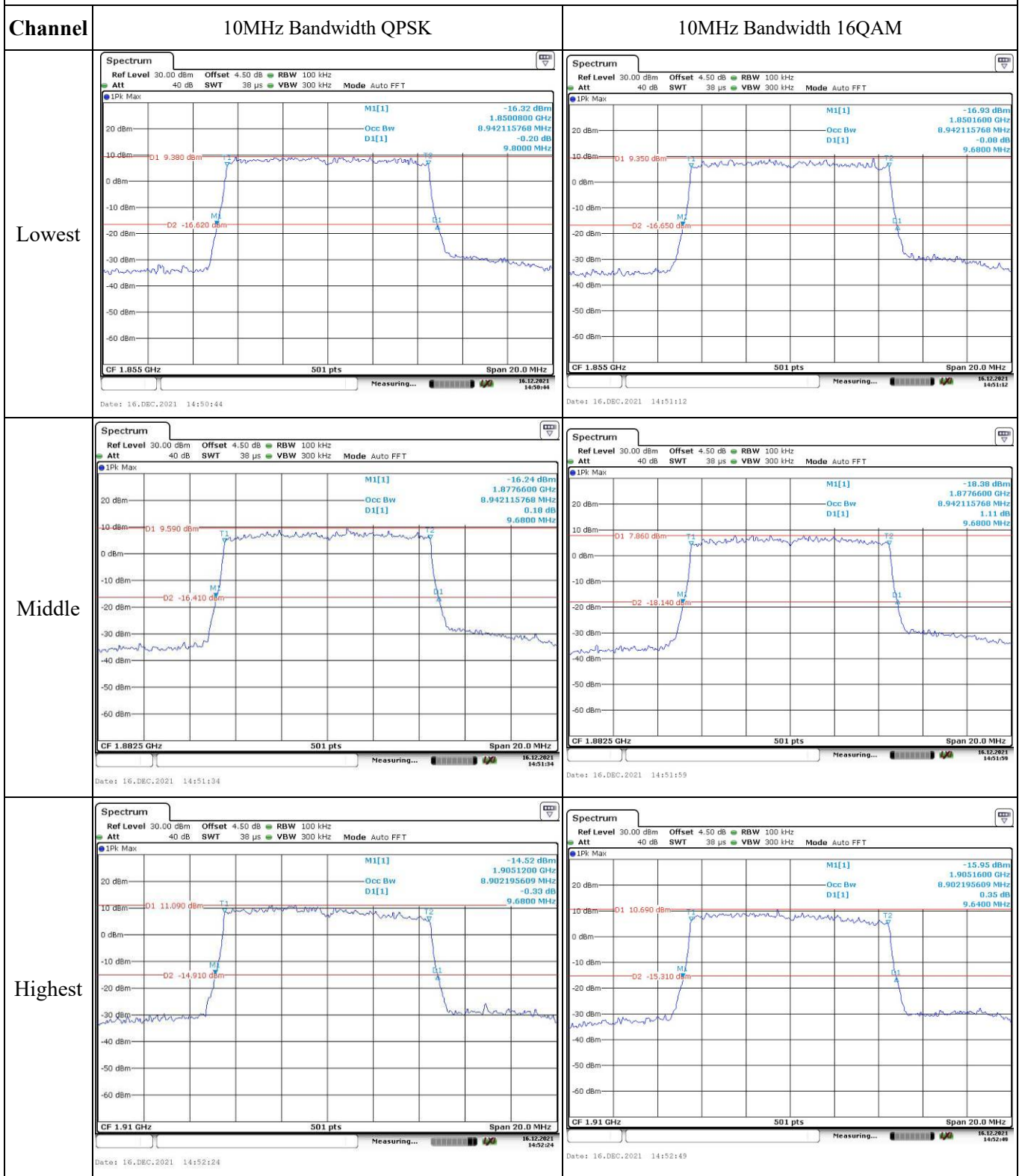


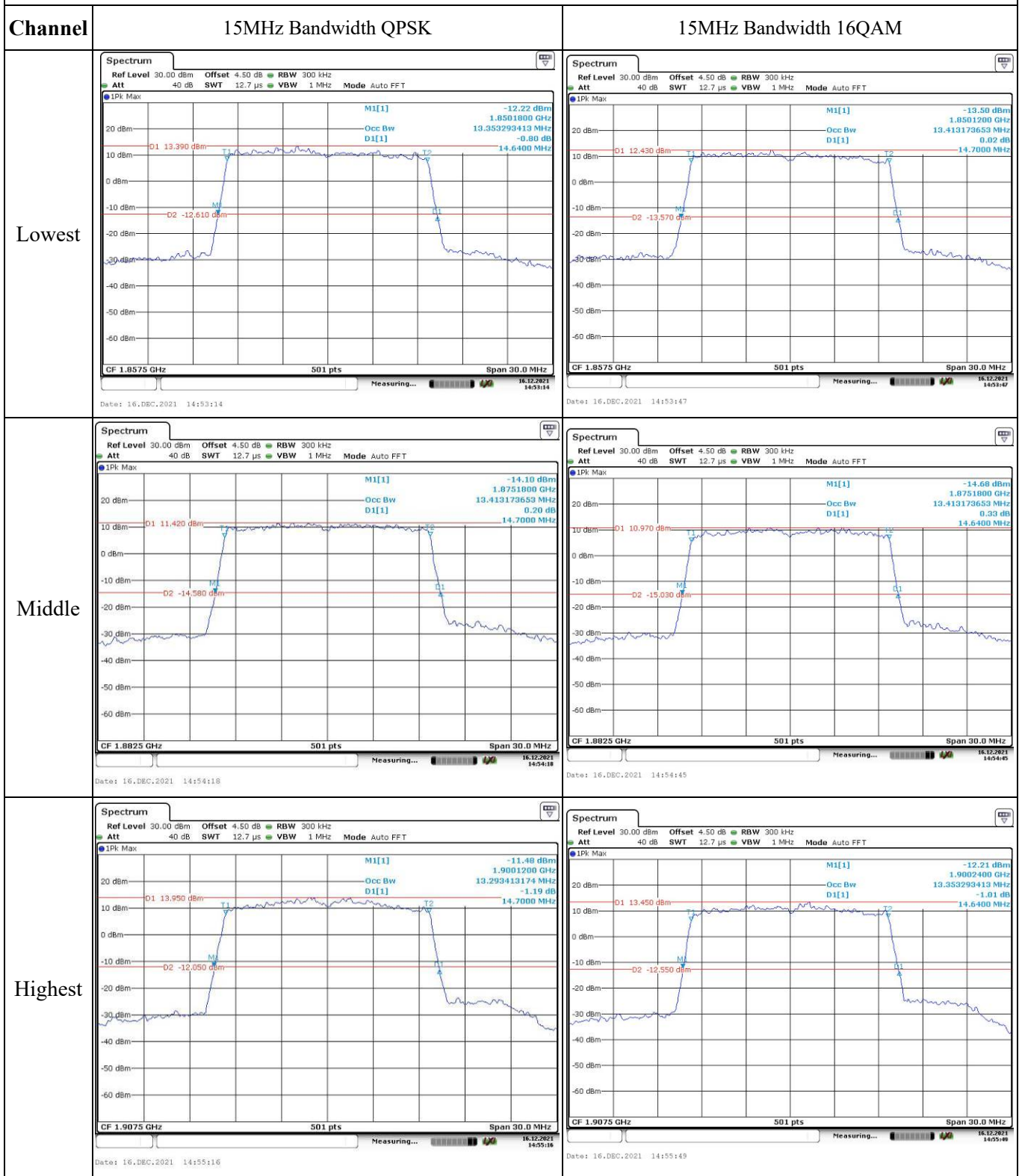
Occupied Bandwidth



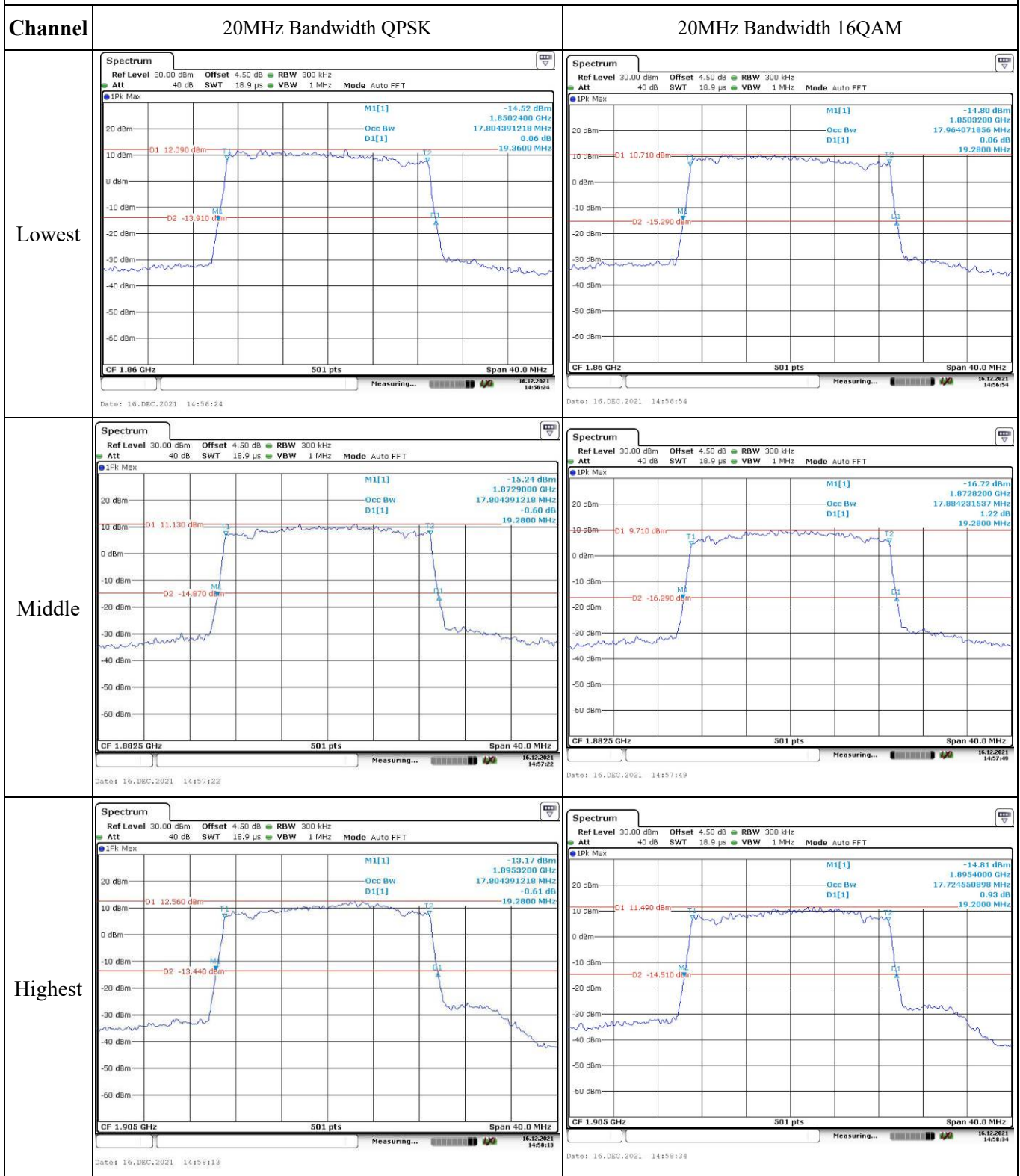
Occupied Bandwidth



Occupied Bandwidth



Occupied Bandwidth

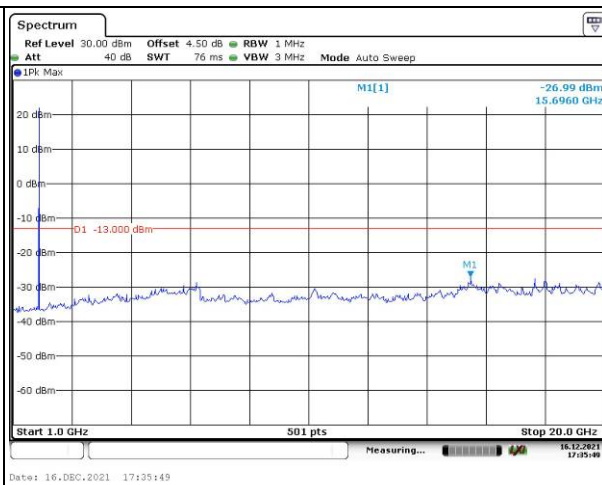
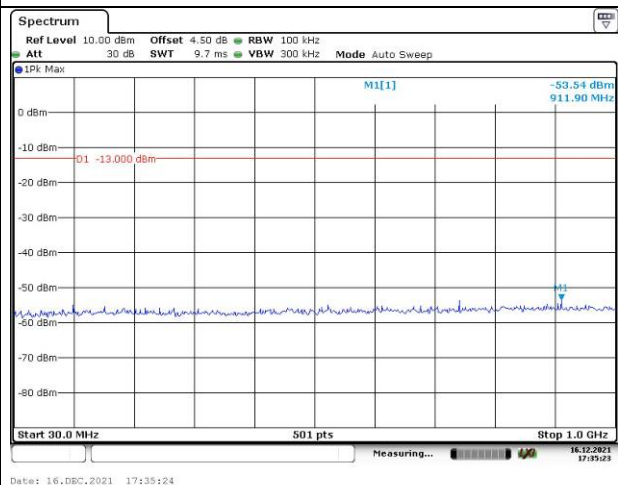


Spurious Emissions at Antenna Terminal

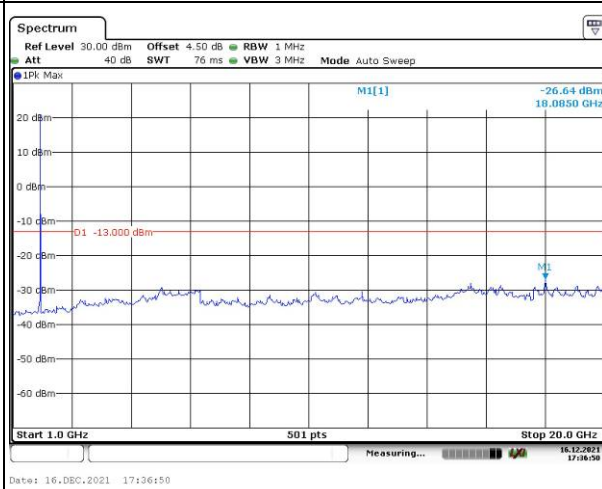
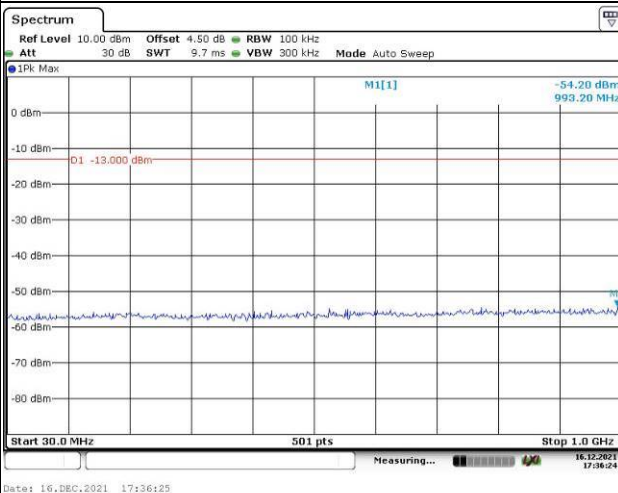
Channel

1.4MHz Bandwidth QPSK

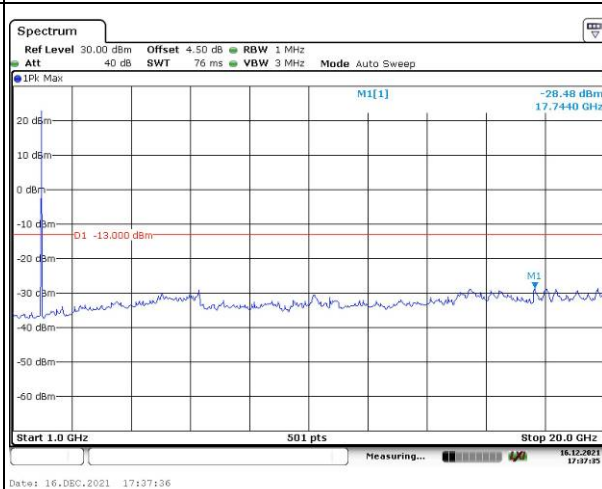
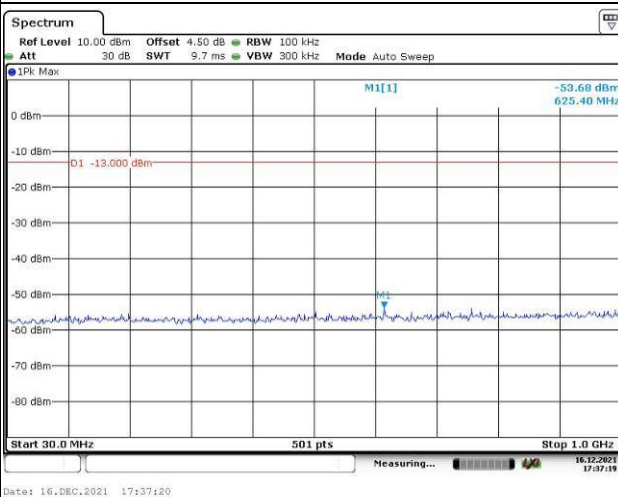
Lowest



Middle



Highest

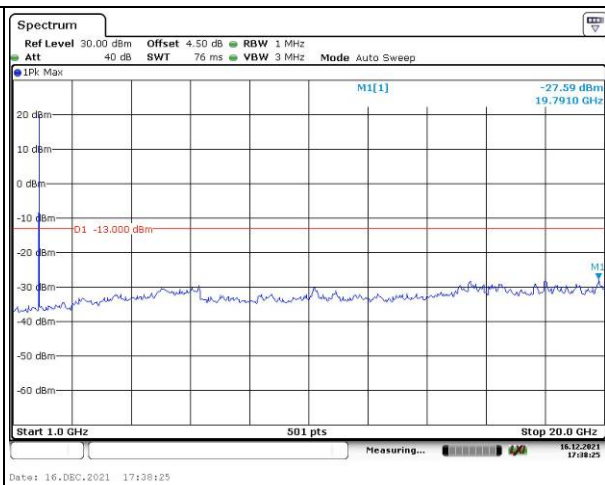
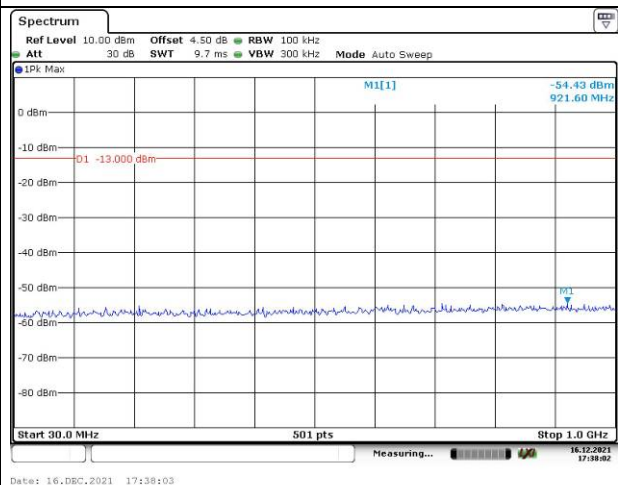


Spurious Emissions at Antenna Terminal

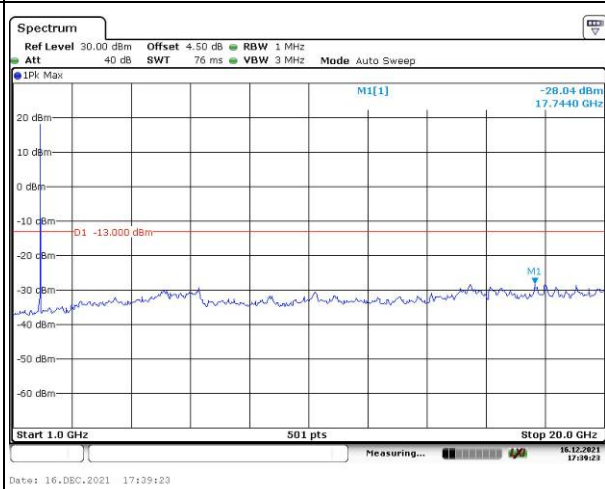
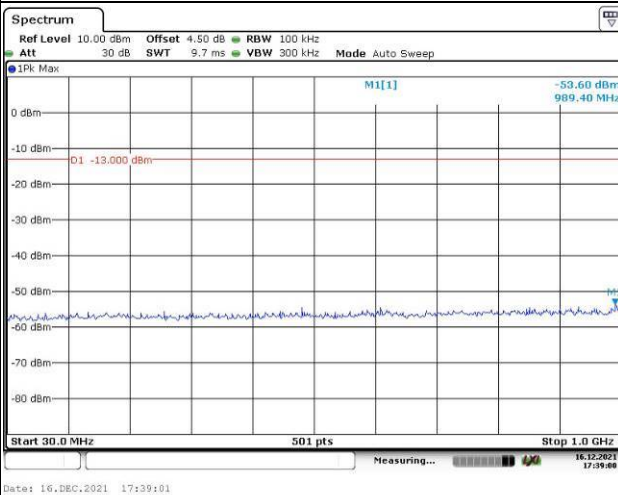
Channel

3MHz Bandwidth QPSK

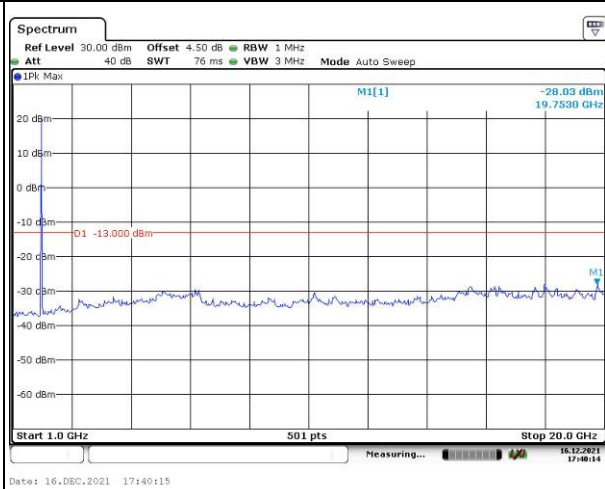
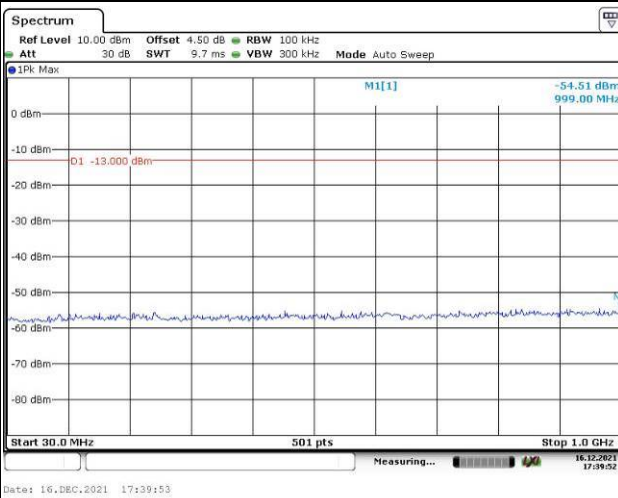
Lowest



Middle



Highest

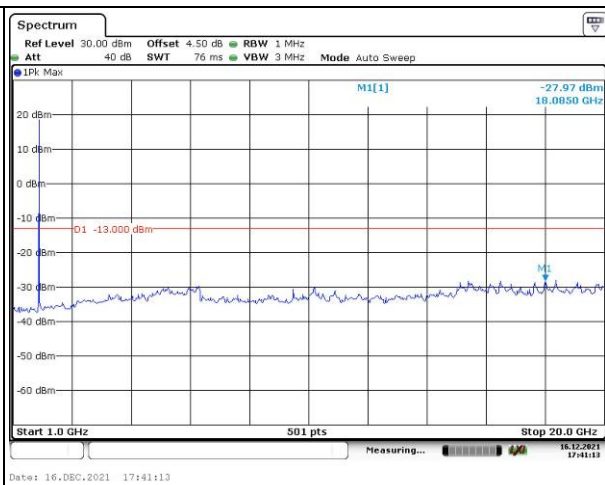
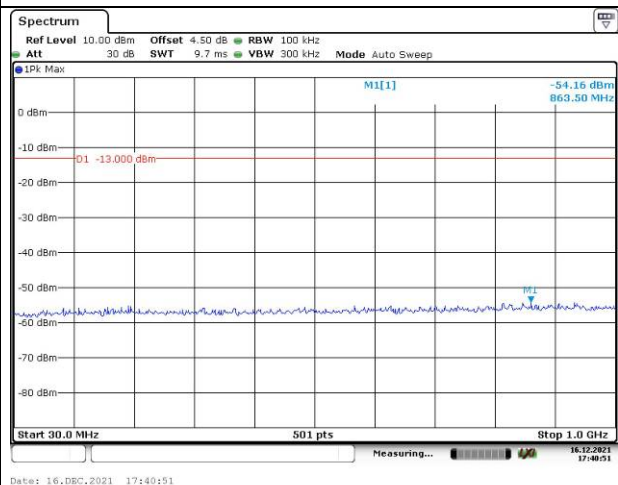


Spurious Emissions at Antenna Terminal

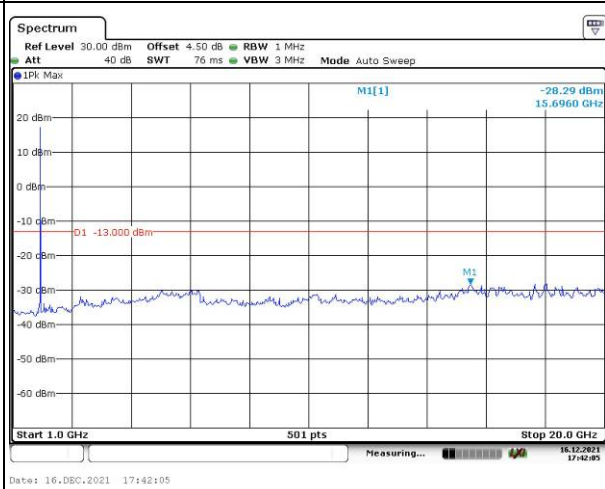
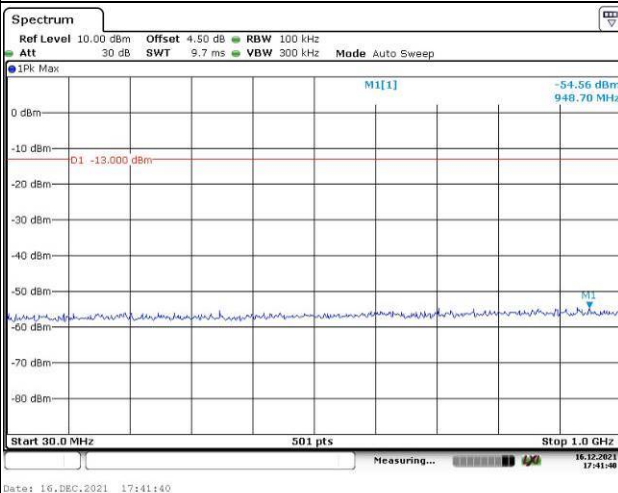
Channel

5MHz Bandwidth QPSK

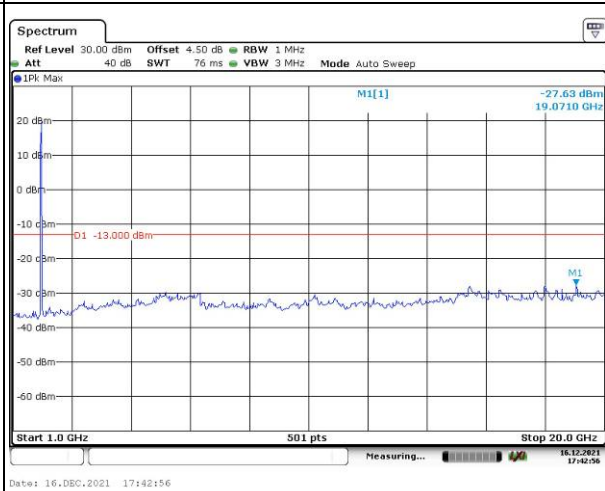
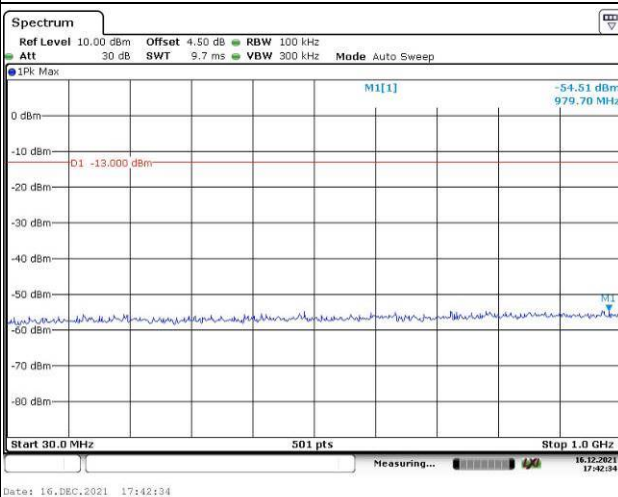
Lowest



Middle



Highest

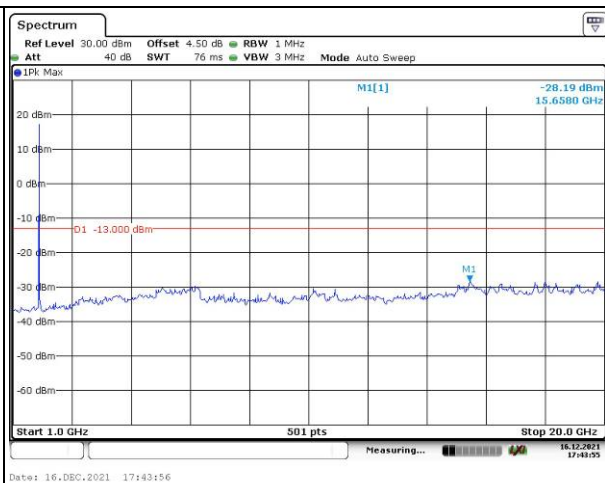
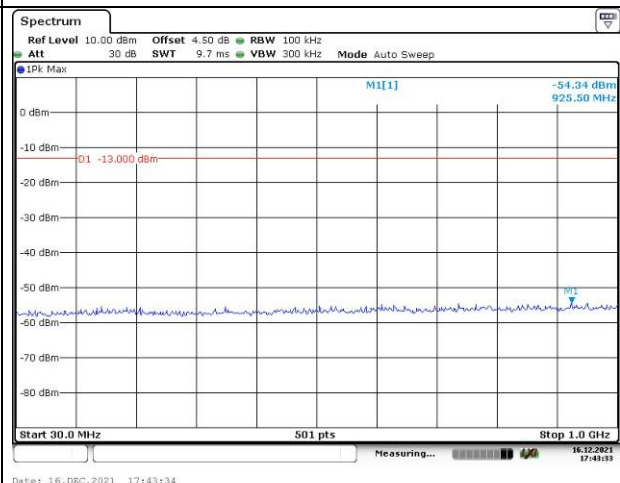


Spurious Emissions at Antenna Terminal

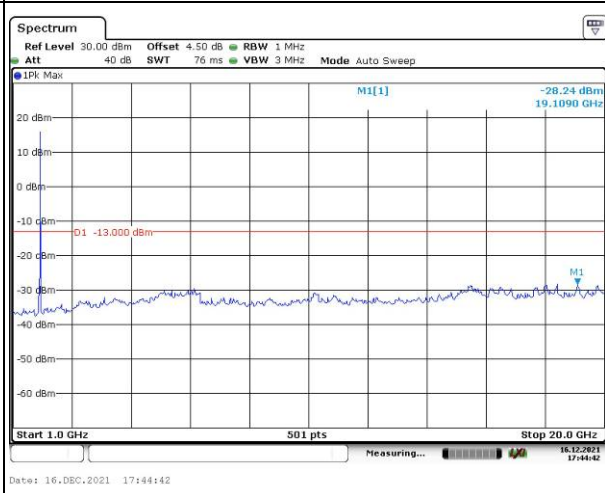
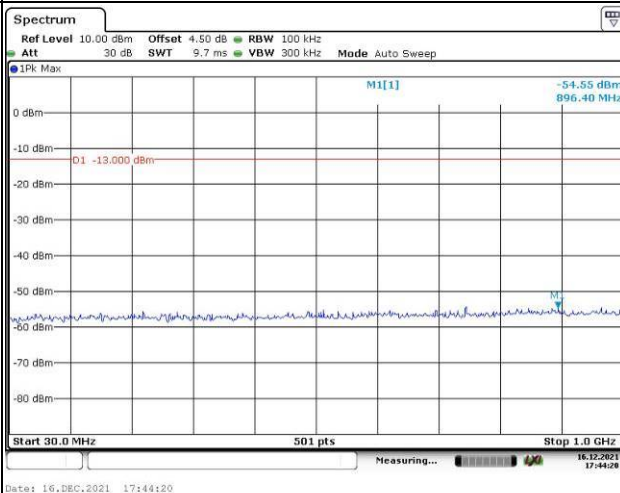
Channel

10MHz Bandwidth QPSK

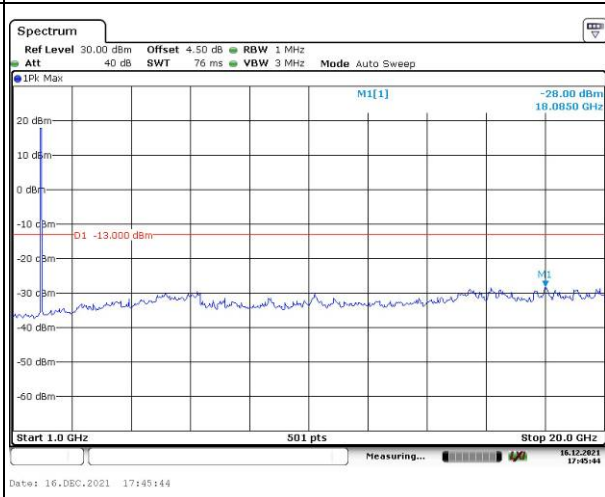
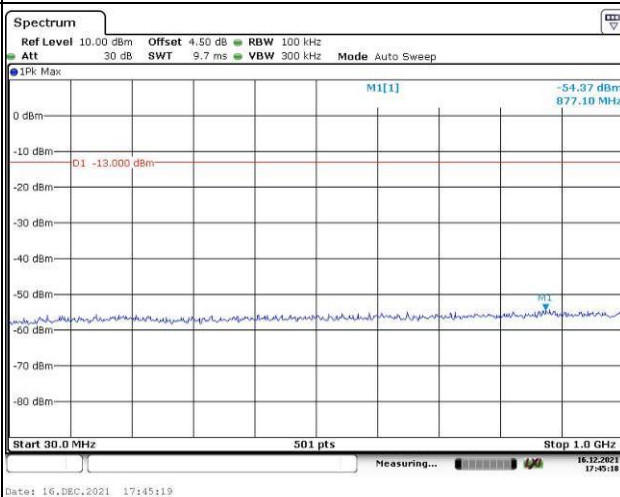
Lowest



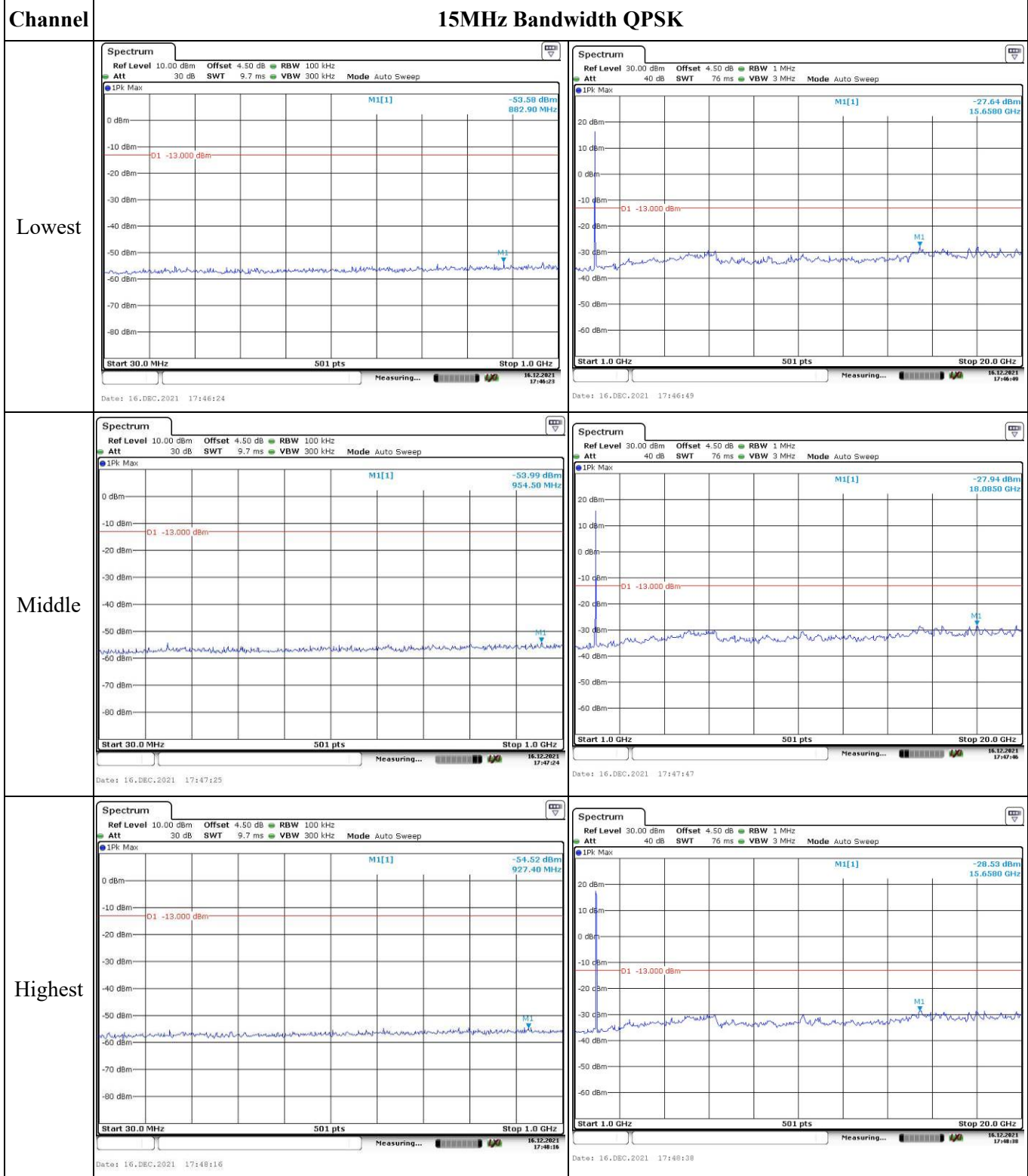
Middle



Highest



Spurious Emissions at Antenna Terminal

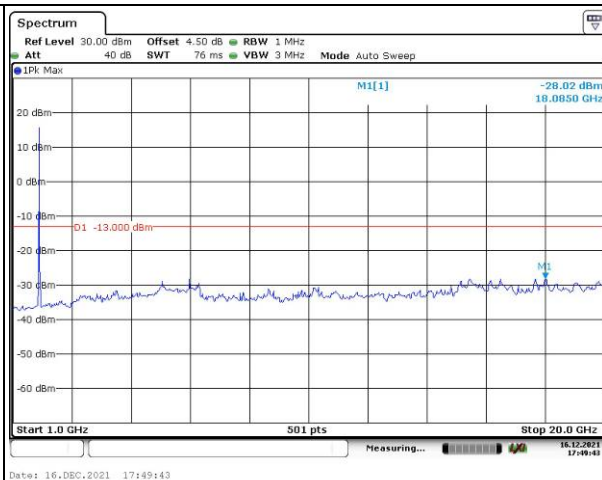
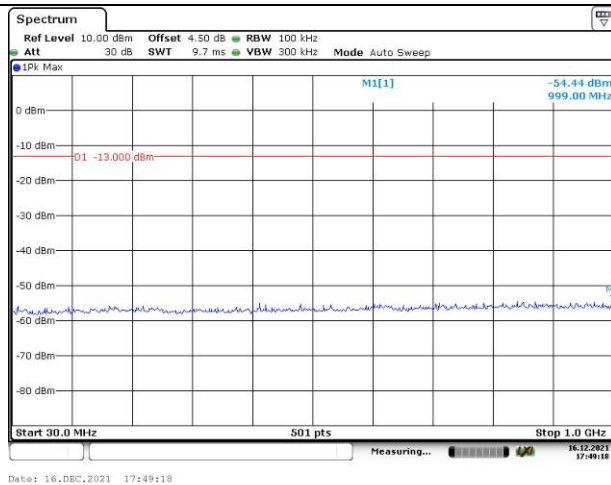


Spurious Emissions at Antenna Terminal

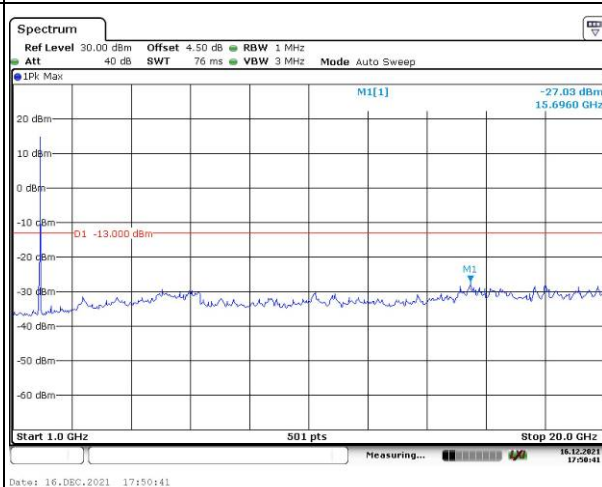
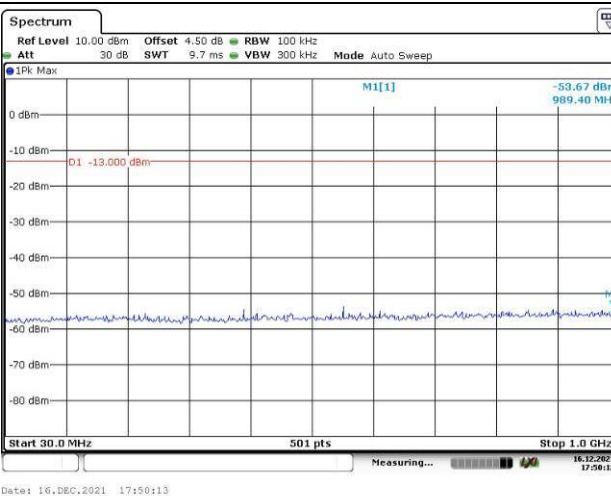
Channel

20MHz Bandwidth QPSK

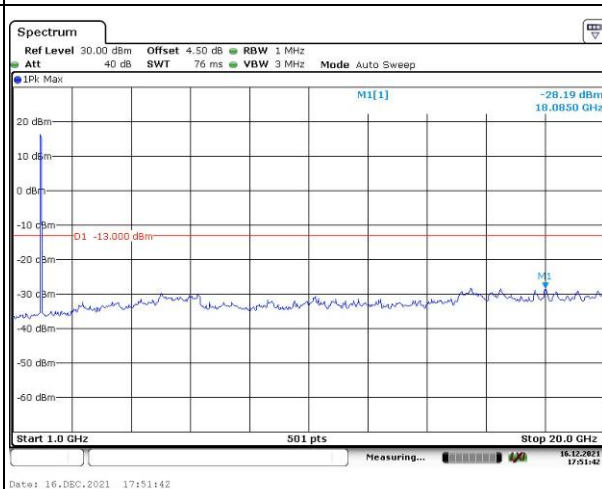
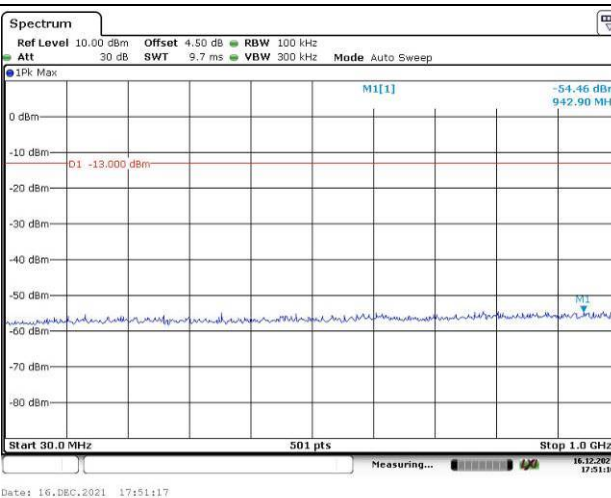
Lowest



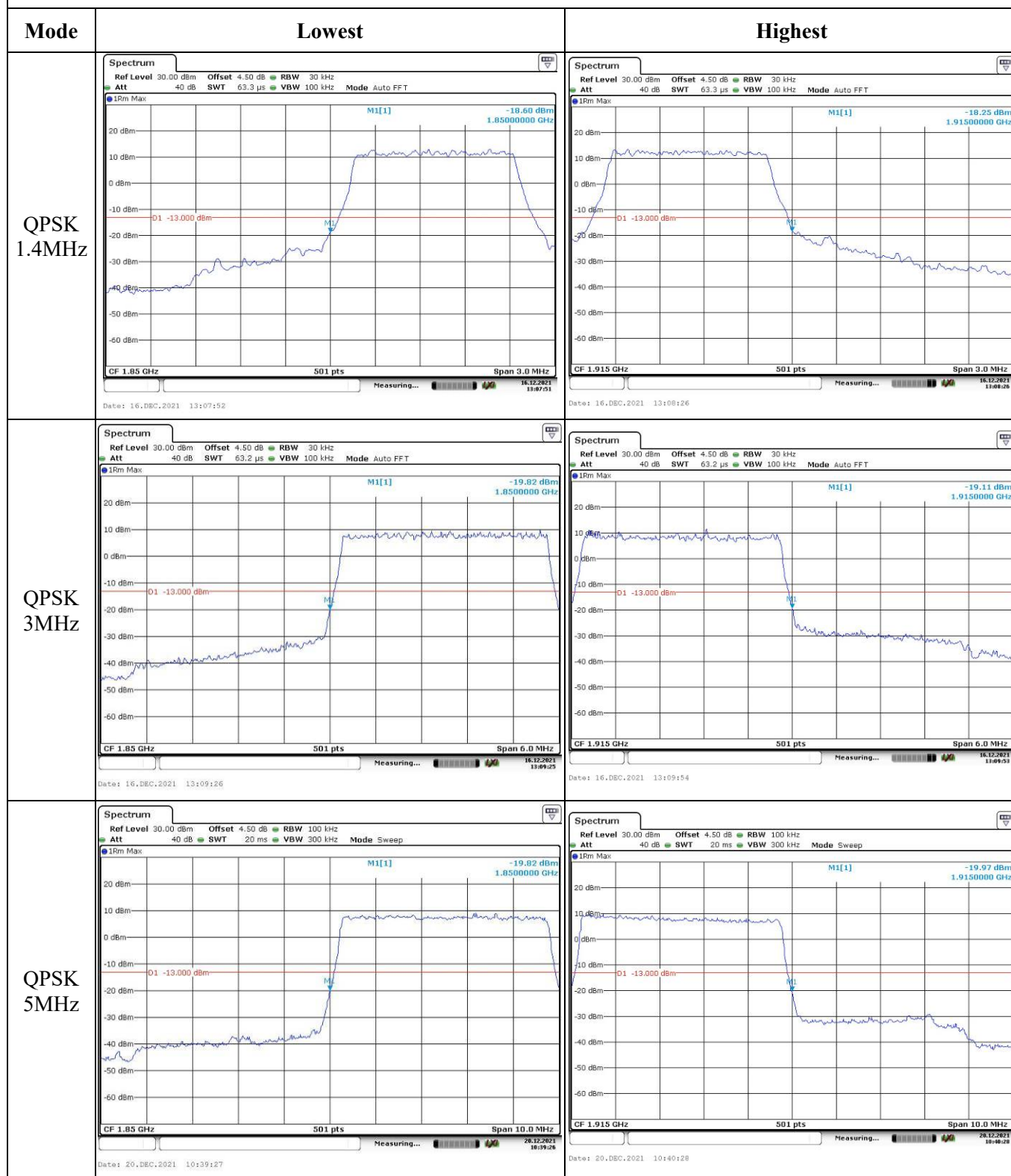
Middle



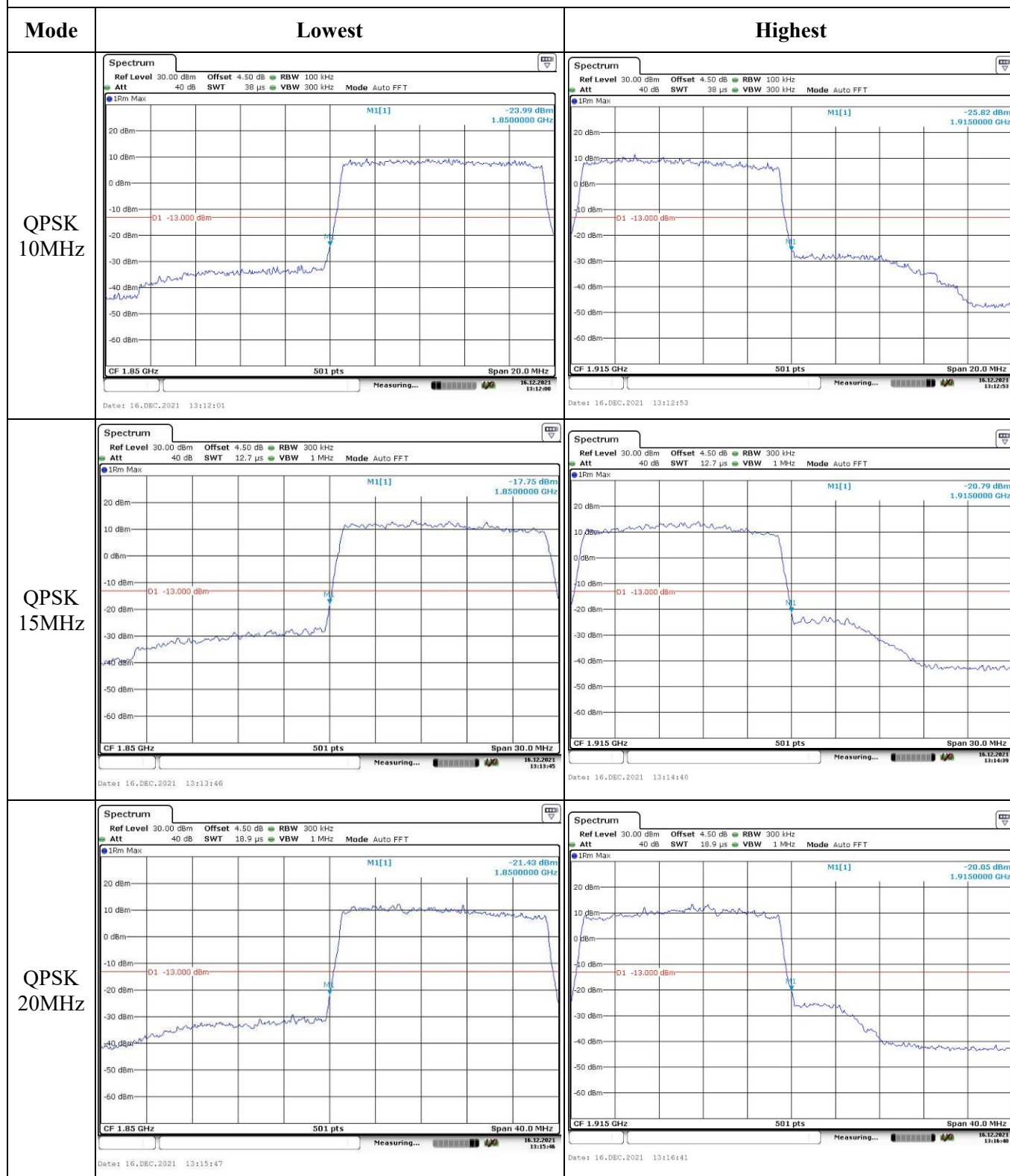
Highest



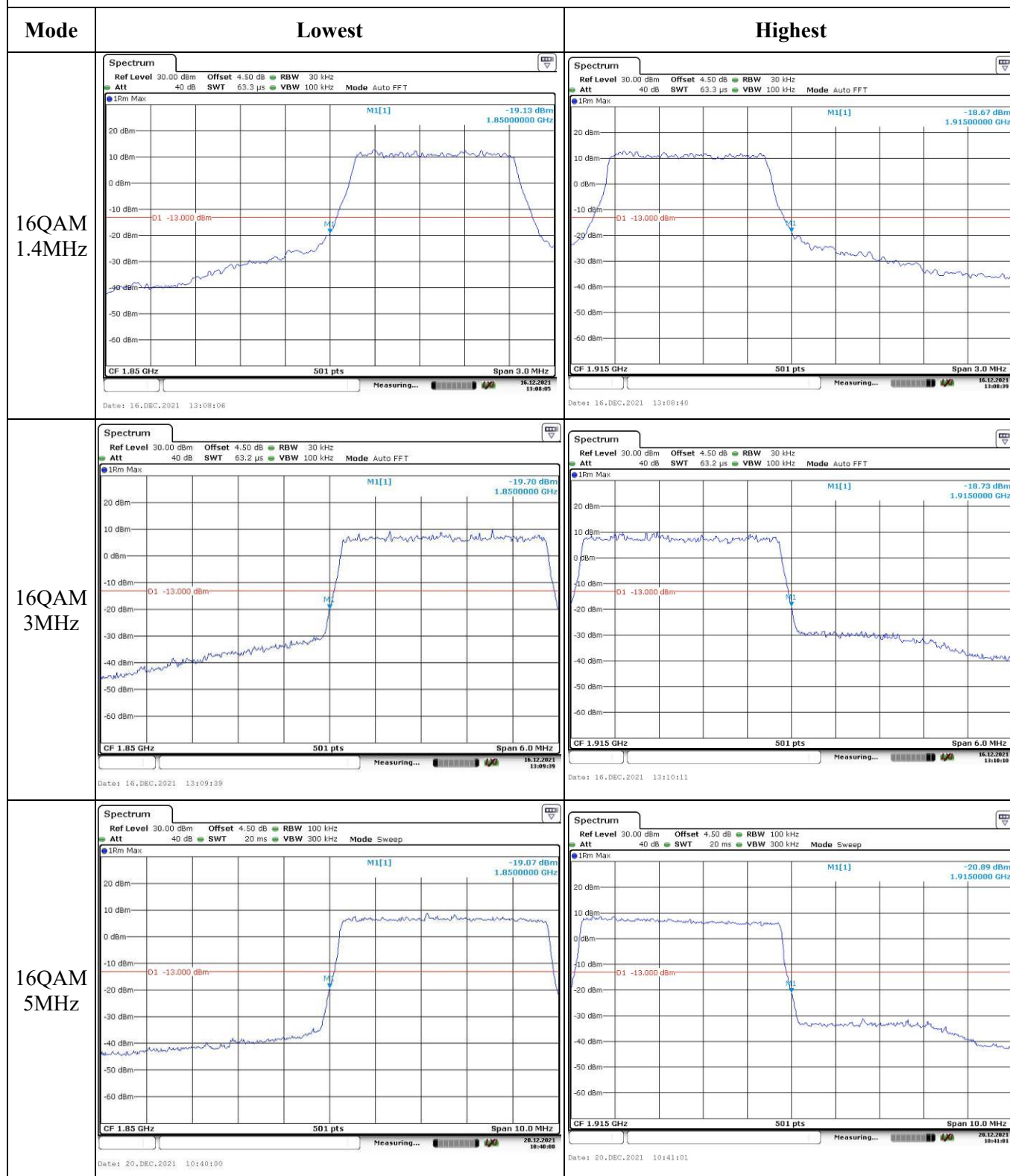
Out of band emission, Band Edge



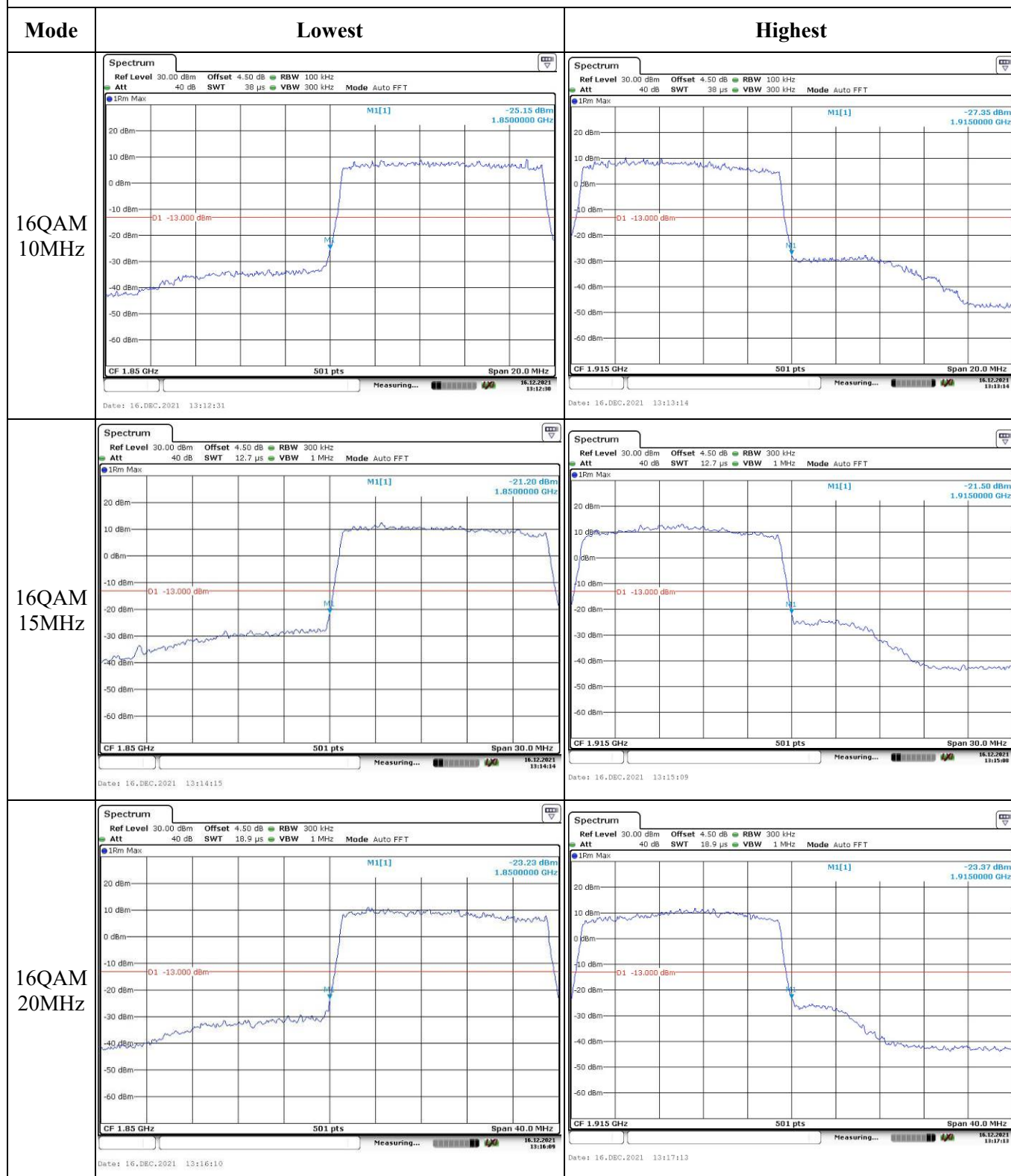
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.14 Antenna Port Test Data and Results for LTE Band 26:

Serial Number:	CR21100097-RF-S1	Test Date:	2021/10/26~2021/12/20
Test Site:	RF	Test Mode:	Transmitting
Tester:	LE Qiao	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.7~25.1	Relative Humidity: (%)	37~59	ATM Pressure: (kPa)	101.1~101.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	Spectrum Analyzer	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
YINSAIGE	Coaxial Cable	SS402	SJ0100001	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 26▲:

Antenna Gain (dBi):	2	Antenna Gain (dBd):	-0.15	Cable Loss (dB):	0
Operation Voltage(V _{DC}):					
Lowest:	3.2	Normal:	3.8	Highest:	4.4

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	814.7	831.5	848.3
3MHz	815.5	831.5	847.5
5MHz	816.5	831.5	846.5
10MHz	819	831.5	844
15MHz	821.5	831.5	841.5

Test Data:

FCC§2.1046;§ 22.913 (a),§ 90.635

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		
1.4MHz QPSK	RB1#0	23.22	23.16	23.16	23.07	38.45
	RB1#3	23.03	23.07	22.90		
	RB1#5	23.07	22.97	22.78		
	RB3#0	23.07	23.09	22.86		
	RB3#3	22.99	22.93	22.78		
	RB6#0	22.92	23.03	22.61		
1.4MHz 16QAM	RB1#0	23.20	23.20	22.93	23.05	38.45
	RB1#3	23.05	23.14	22.89		
	RB1#5	22.92	23.03	22.71		
	RB3#0	23.14	23.14	22.92		
	RB3#3	22.87	22.98	22.76		
	RB6#0	22.80	22.85	22.57		
3MHz QPSK	RB1#0	23.31	23.29	23.12	23.17	38.45
	RB1#8	23.21	23.31	23.02		
	RB1#14	23.04	23.19	22.87		
	RB6#0	23.29	23.32	23.10		
	RB6#9	22.88	23.24	22.95		
	RB15#0	22.90	23.16	22.63		
3MHz 16QAM	RB1#0	23.30	23.27	23.02	23.15	38.45
	RB1#8	23.21	23.17	22.92		
	RB1#14	22.90	23.17	22.79		
	RB6#0	23.20	23.29	22.91		
	RB6#9	22.98	23.22	22.83		
	RB15#0	22.82	23.11	22.77		
5MHz QPSK	RB1#0	23.36	23.48	23.21	23.33	38.45
	RB1#13	23.23	23.34	23.04		
	RB1#24	23.09	23.29	22.84		
	RB15#0	23.22	23.39	23.12		
	RB15#10	23.06	23.19	23.05		
	RB25#0	22.93	23.09	22.88		
5MHz 16QAM	RB1#0	23.33	23.35	23.04	23.22	38.45
	RB1#13	23.13	23.25	23.04		
	RB1#24	22.99	23.26	22.79		
	RB15#0	23.30	23.37	23.11		
	RB15#10	23.08	23.13	22.78		
	RB25#0	22.88	23.11	22.76		
10MHz QPSK	RB1#0	23.52	23.50	23.39	23.37	38.45
	RB1#25	23.25	23.44	23.15		

	RB1#49	23.18	23.42	23.04		
	RB25#0	23.39	23.45	23.17		
	RB25#25	23.12	23.39	22.97		
	RB50#0	23.02	23.19	22.81		
10MHz 16QAM	RB1#0	23.35	23.42	23.20	23.31	38.45
	RB1#25	23.13	23.46	23.08		
	RB1#49	23.11	23.40	22.98		
	RB25#0	23.27	23.40	23.06		
	RB25#25	23.06	23.40	22.85		
	RB50#0	23.03	23.32	22.91		
15MHz QPSK	RB1#0	23.55	24.17	24.05	24.02	38.45
	RB1#38	23.42	24.02	24.01		
	RB1#74	23.19	23.67	23.63		
	RB36#0	23.53	24.03	24.02		
	RB36#39	23.25	23.95	24.00		
	RB75#0	23.08	23.37	23.42		
15MHz 16QAM	RB1#0	23.34	24.14	24.01	23.99	38.45
	RB1#38	23.42	24.01	23.69		
	RB1#74	23.17	23.73	23.45		
	RB36#0	23.41	24.06	23.90		
	RB36#39	23.12	23.98	23.61		
	RB75#0	23.07	23.25	23.37		
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	
15MHz QPSK	RB1#0	4.43	4.20	4.35	13
	RB75#0	4.87	4.61	4.49	13
15MHz 16QAM	RB1#0	5.42	5.10	5.30	13
	RB75#0	5.88	5.74	5.74	13
				Result:	Pass

FCC §2.1049, §22.905, §90.209:Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.096	1.102	1.102	1.314	1.314	1.296
1.4MHz 16QAM	1.102	1.096	1.102	1.314	1.296	1.314
3MHz QPSK	2.683	2.695	2.695	2.940	2.928	2.964
3MHz 16QAM	2.683	2.683	2.695	2.964	2.952	2.952
5MHz QPSK	4.531	4.511	4.491	5.040	5.040	4.980
5MHz 16QAM	4.511	4.511	4.511	5.020	5.040	5.020
10MHz QPSK	8.982	8.942	8.902	9.720	9.640	9.600
10MHz 16QAM	8.982	8.942	8.902	9.720	9.680	9.560
15MHz QPSK	13.533	13.413	13.413	14.820	14.700	14.700
15MHz 16QAM	13.593	13.413	13.413	14.760	14.640	14.640

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

FCC §2.1051, §22.917(a),§90.691: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, §22.917(a),§90.691:Out of band emission, Band Edge

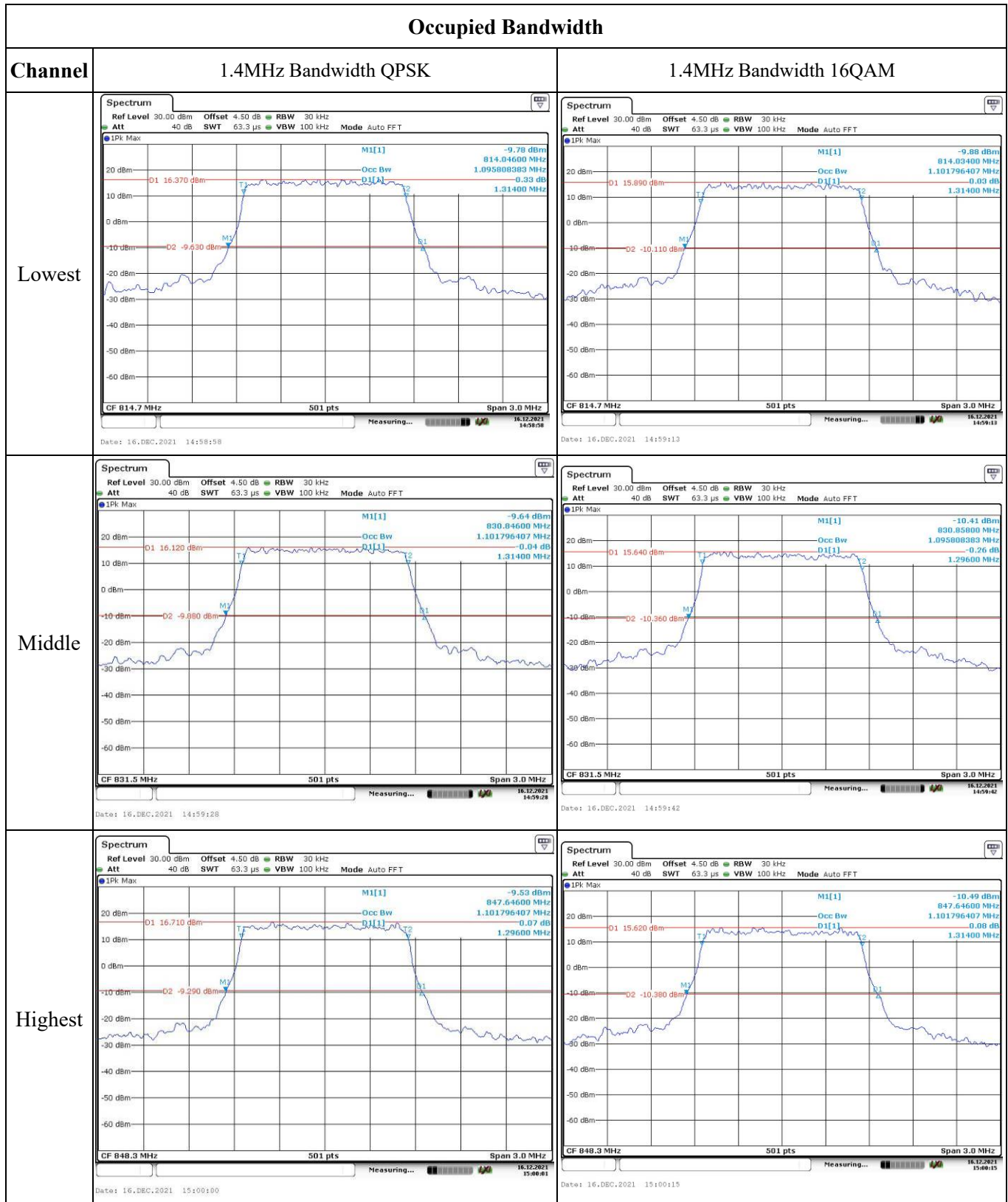
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.
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FCC §2.1055, §22.355,§90.213: Frequency Stability

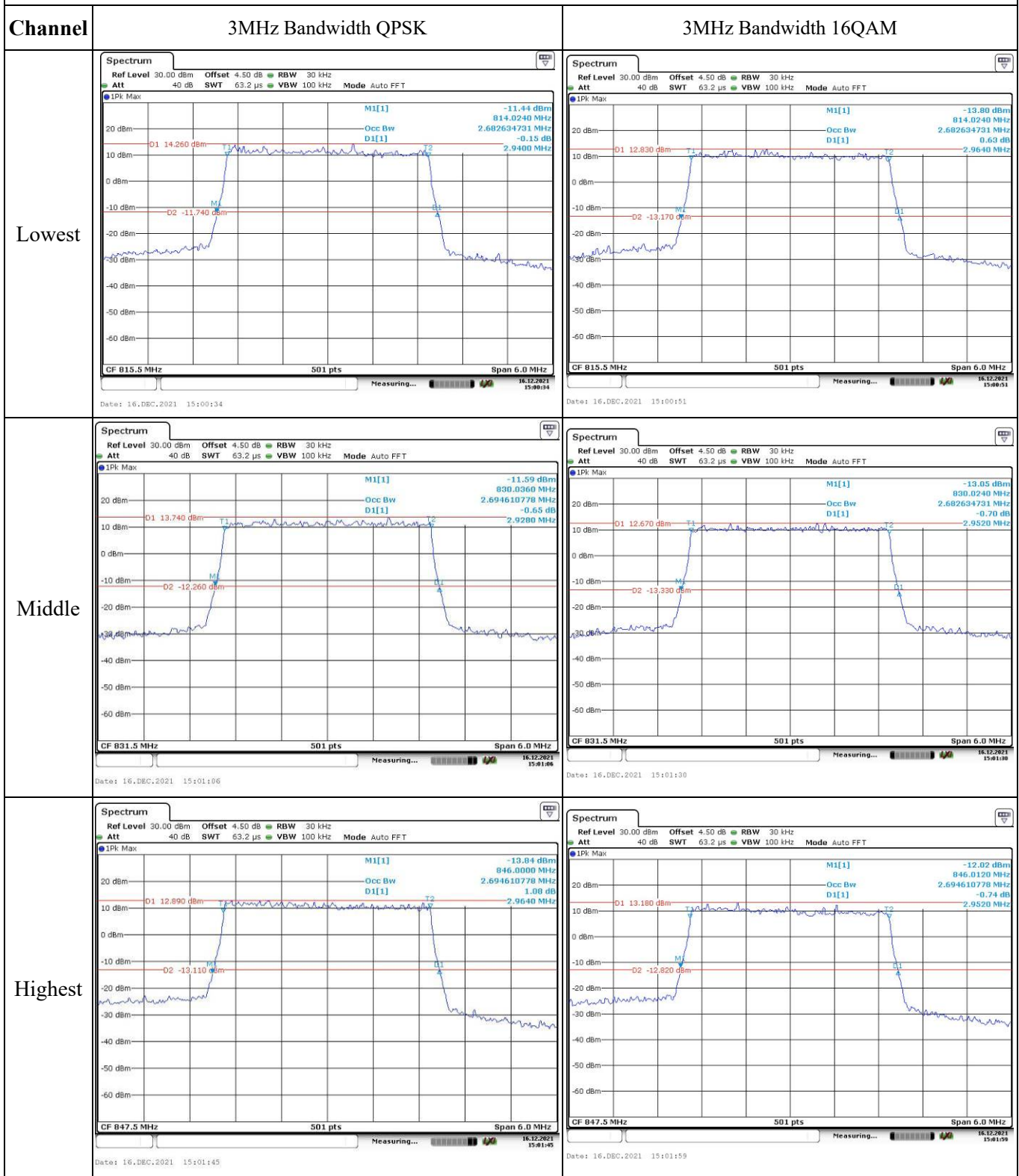
Test Mode:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	0.76	0.001	2.5
	-20	3.8	8.81	0.011	2.5
	-10	3.8	-9.40	-0.011	2.5
	0	3.8	8.82	0.011	2.5
	10	3.8	6.55	0.008	2.5
	20	3.8	8.34	0.010	2.5
	30	3.8	7.49	0.009	2.5
	40	3.8	-5.40	-0.006	2.5
	50	3.8	-5.55	-0.007	2.5
Frequency Stability vs. Voltage	20	3.2	6.70	0.008	2.5
	20	4.4	-9.38	-0.011	2.5
Result:				Pass	

Test Mode:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	-0.56	-0.001	2.5
	-20	3.8	9.35	0.011	2.5
	-10	3.8	-5.89	-0.007	2.5
	0	3.8	9.81	0.012	2.5
	10	3.8	-9.71	-0.012	2.5
	20	3.8	9.01	0.011	2.5
	30	3.8	5.10	0.006	2.5
	40	3.8	6.97	0.008	2.5
	50	3.8	5.67	0.007	2.5
Frequency Stability vs. Voltage	20	3.2	-7.03	-0.008	2.5
	20	4.4	-9.06	-0.011	2.5
				Result:	Pass

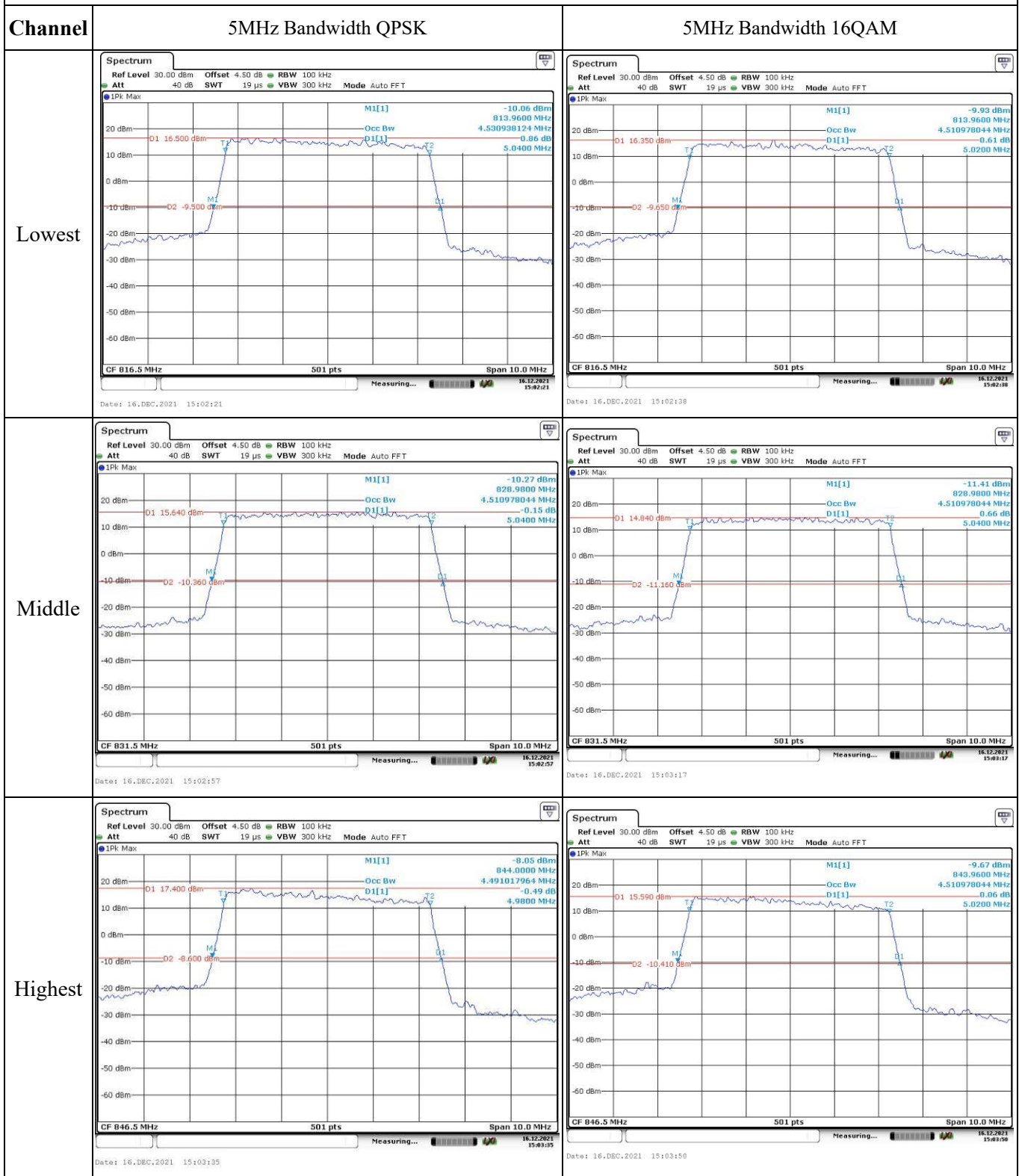
Test Plots:



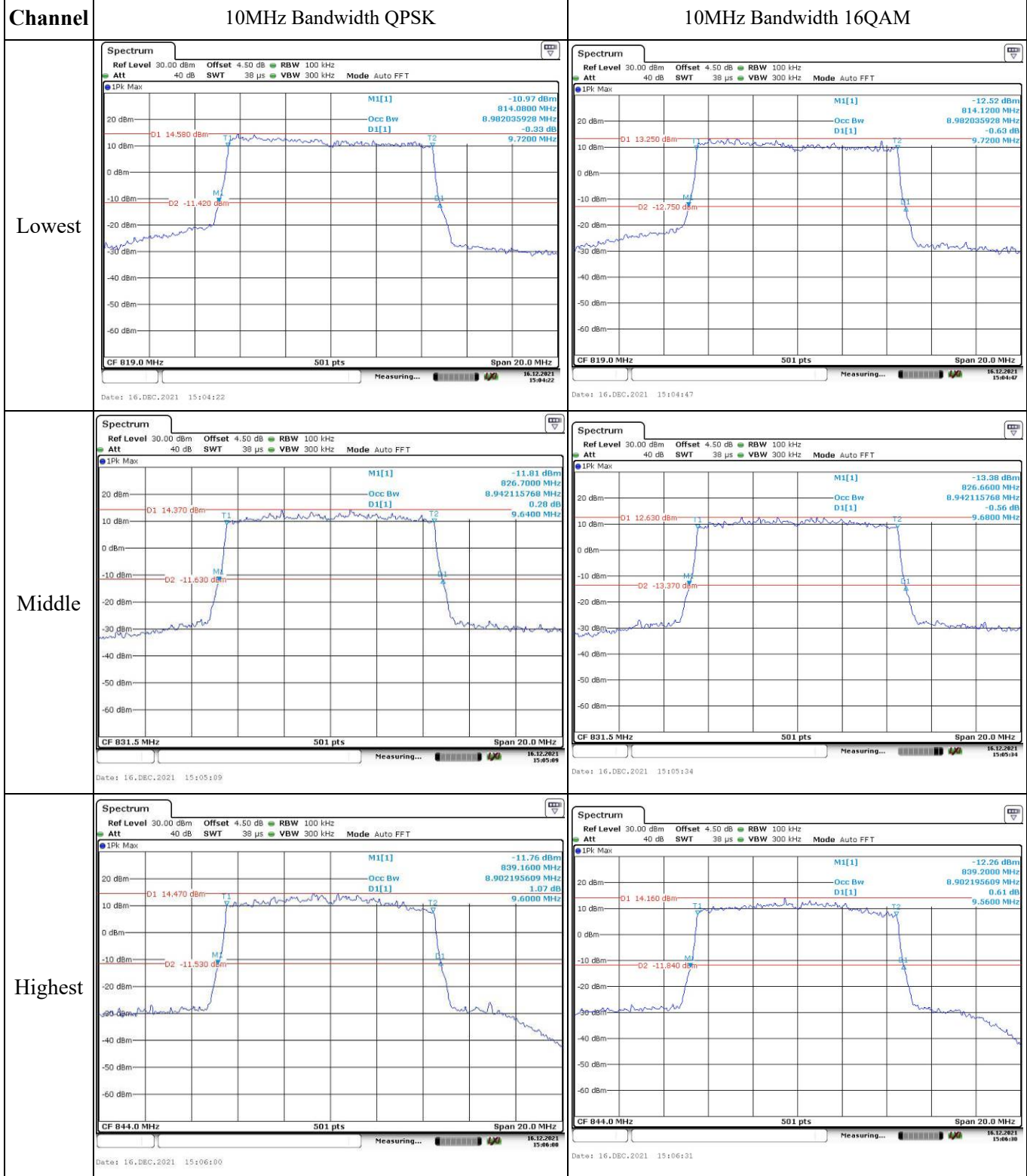
Occupied Bandwidth



Occupied Bandwidth



Occupied Bandwidth



Occupied Bandwidth

