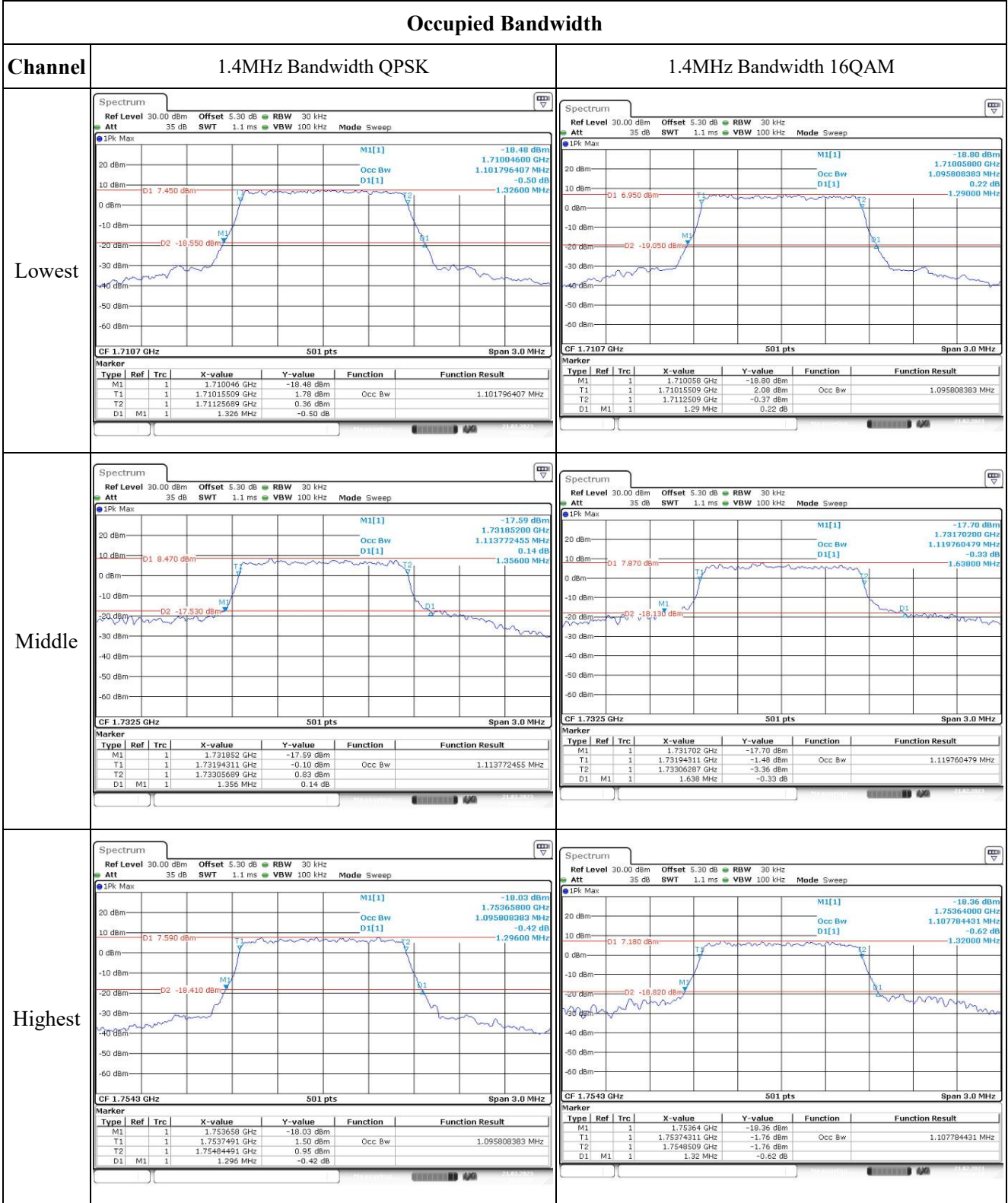
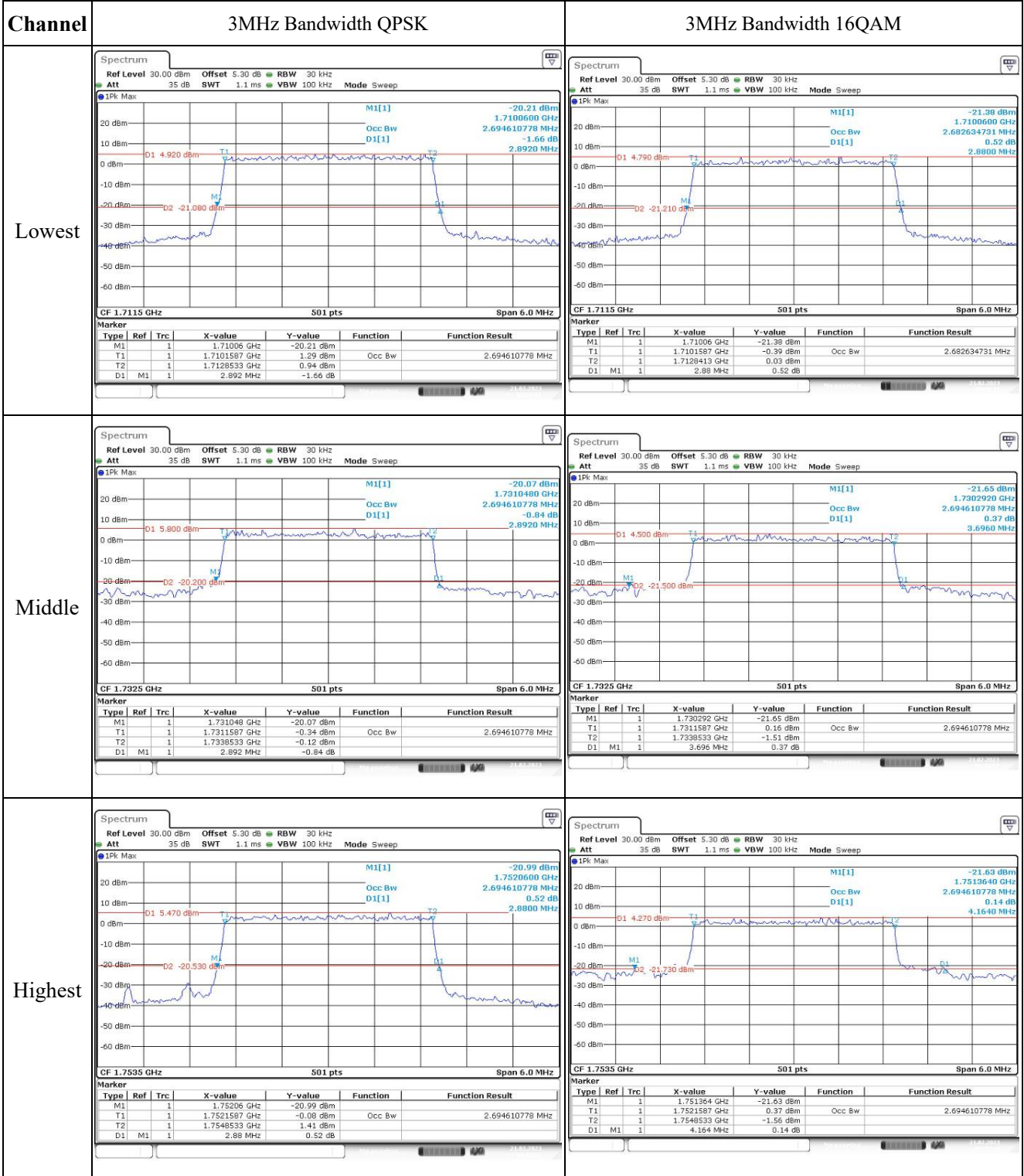


**Test Plots**(Note: The 5.3dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

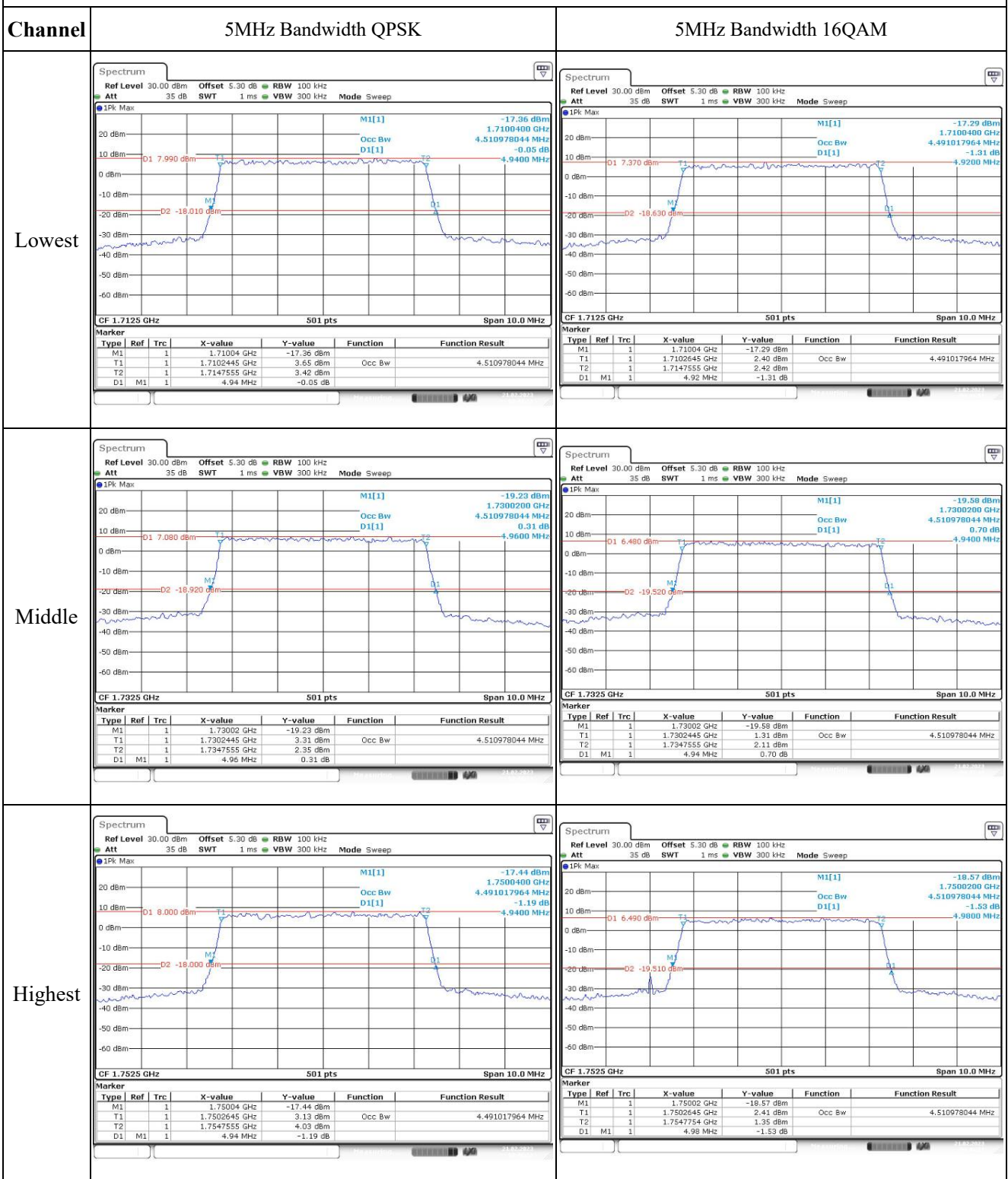
**Occupied Bandwidth**



### Occupied Bandwidth



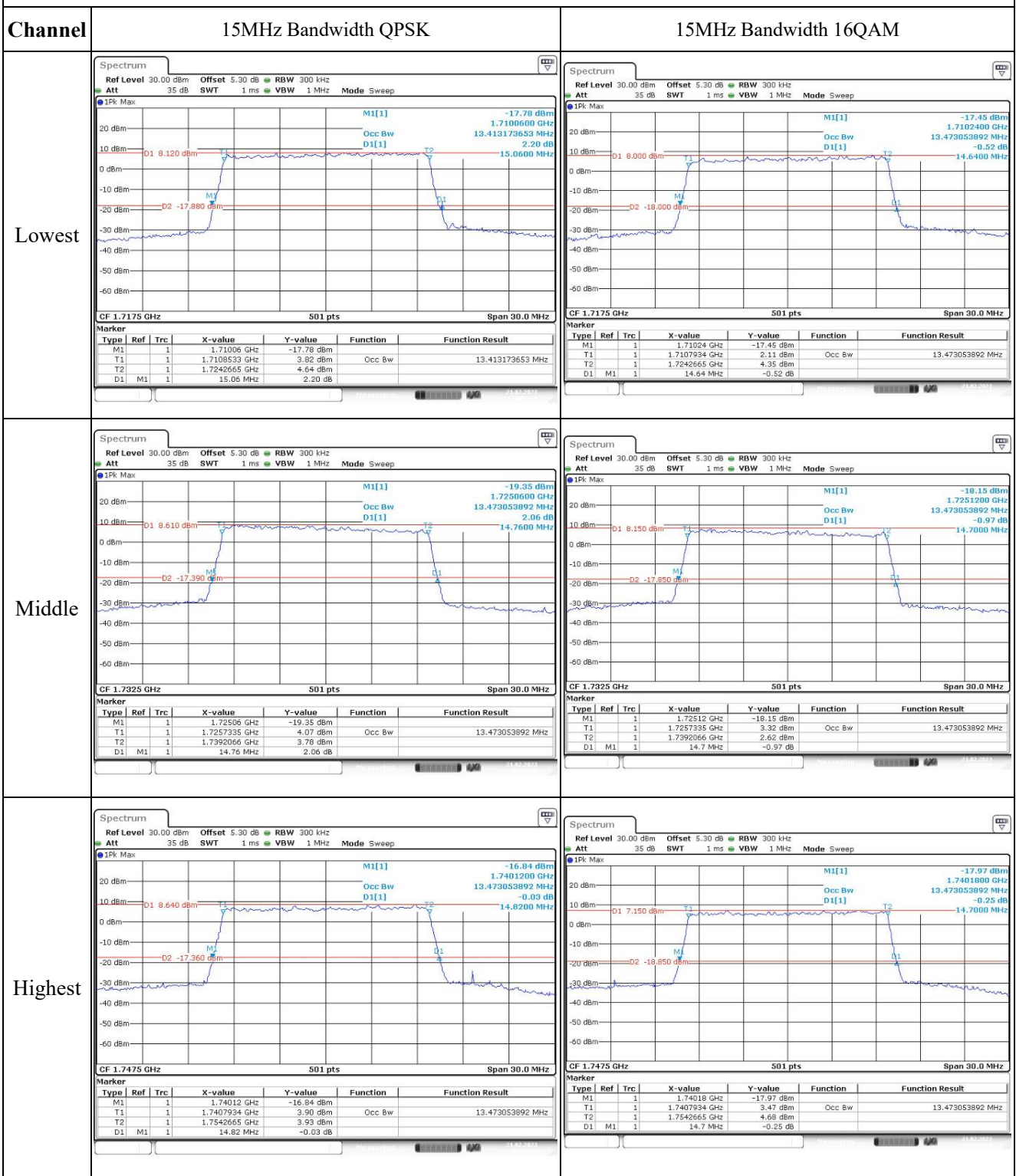
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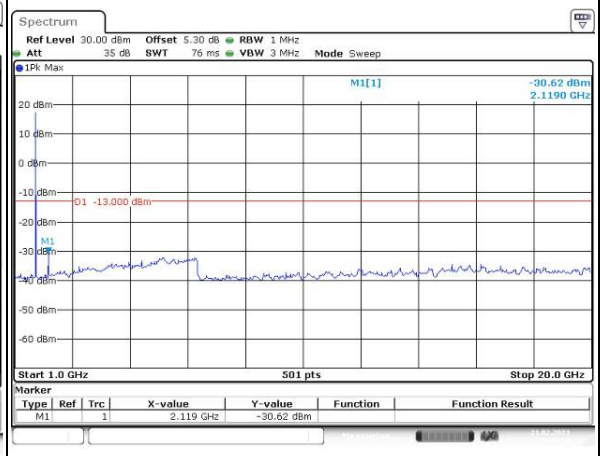
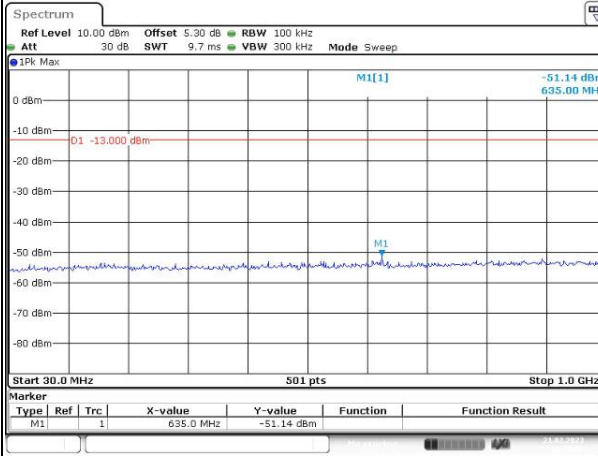
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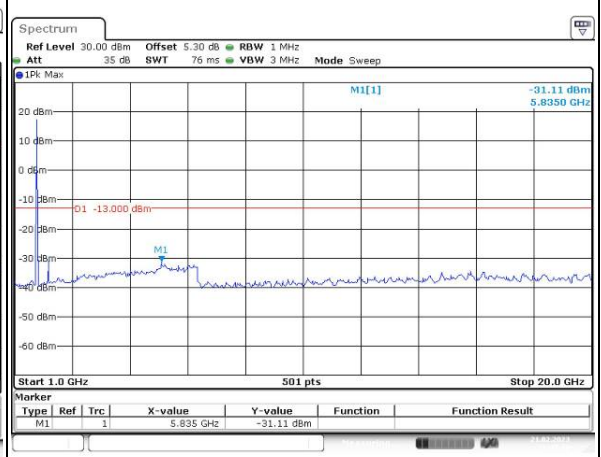
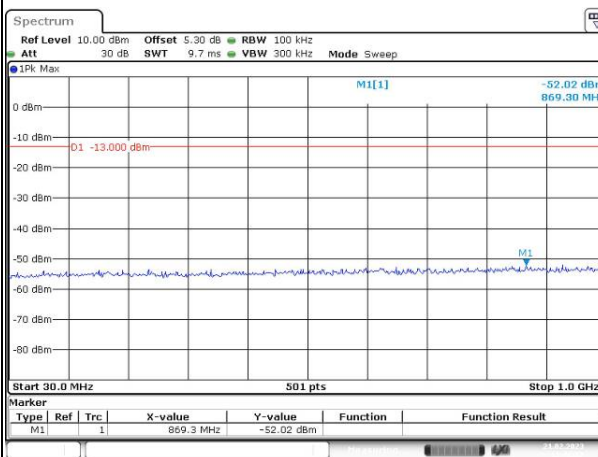
Channel

1.4MHz Bandwidth QPSK

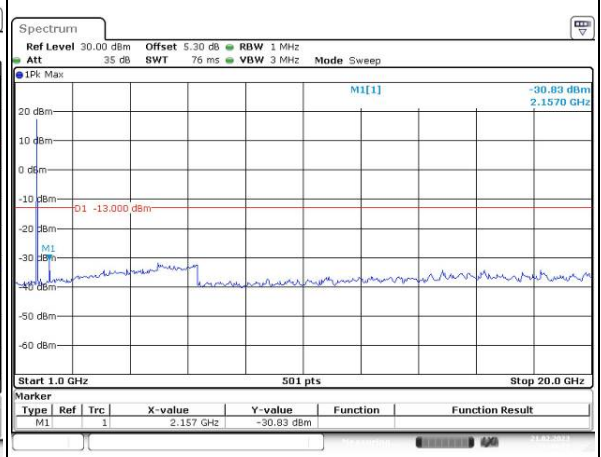
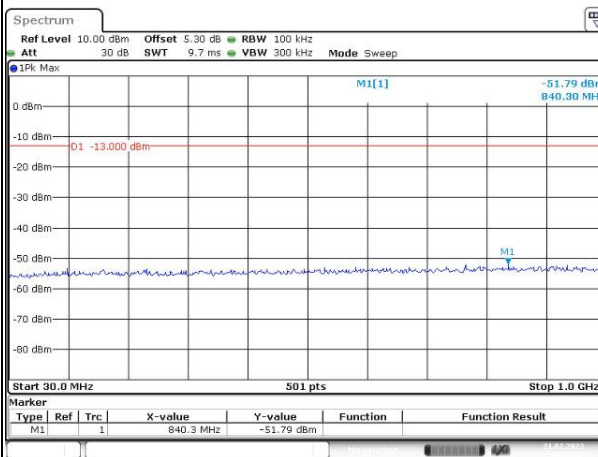
Lowest



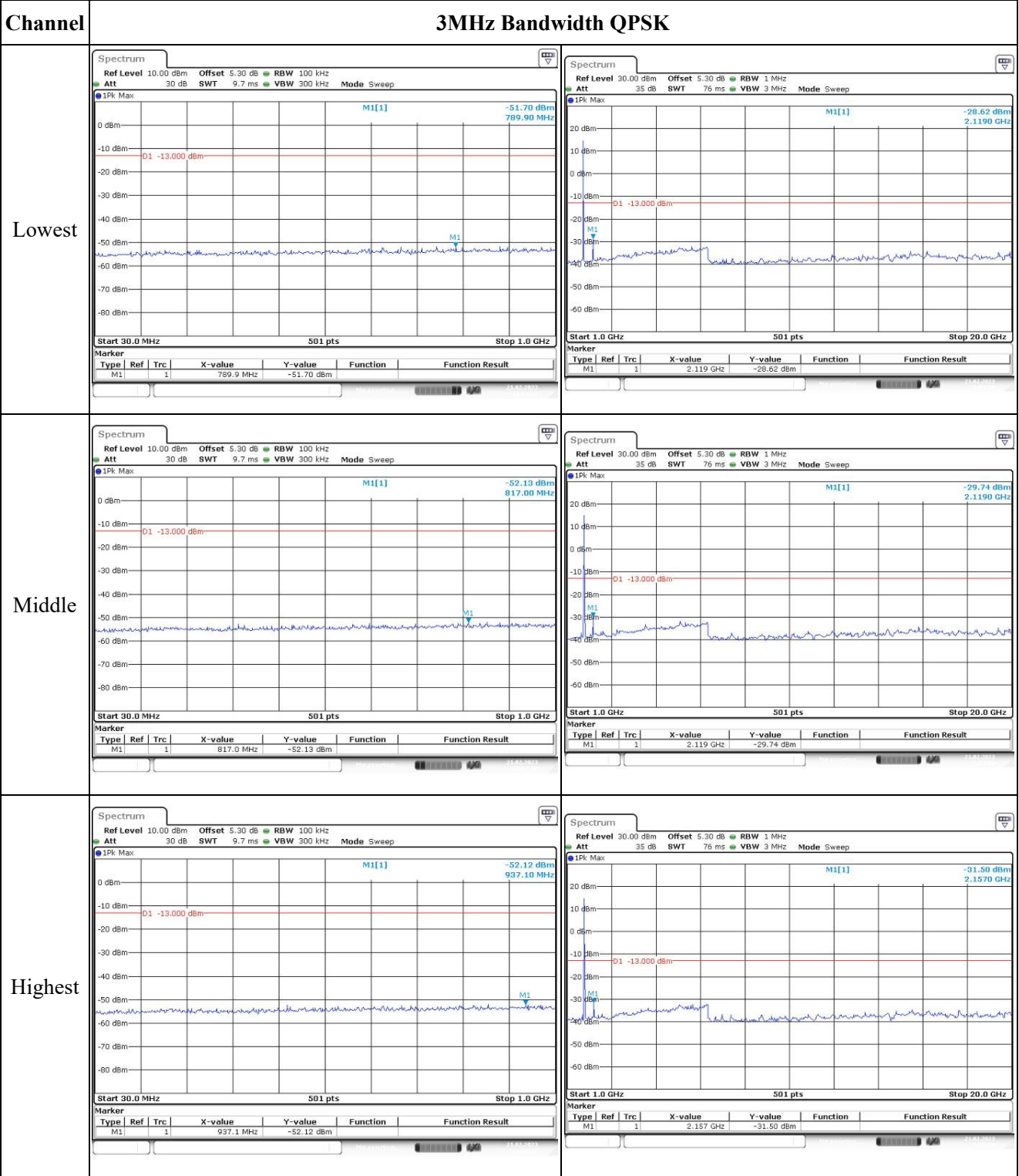
Middle



Highest



### Spurious Emissions at Antenna Terminal



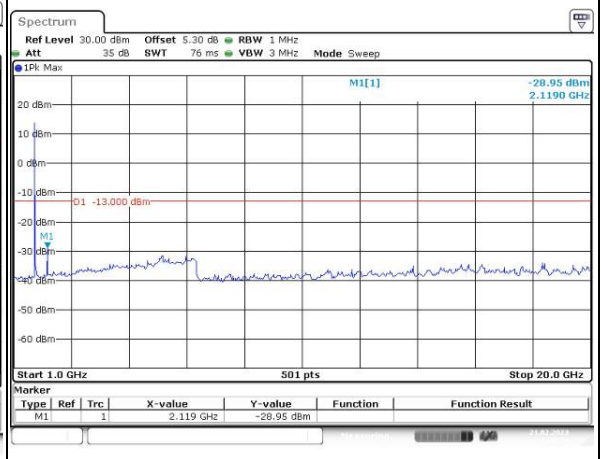
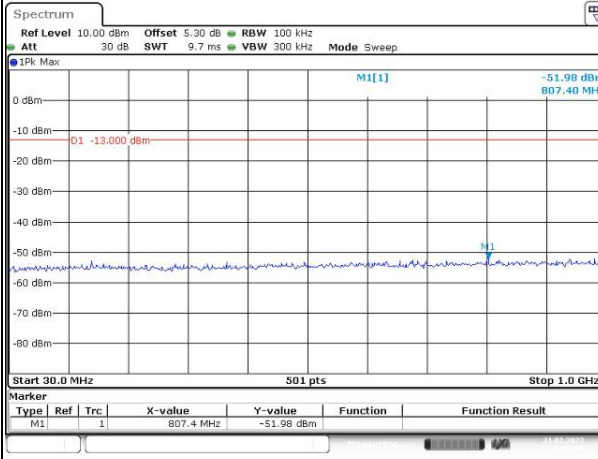


### Spurious Emissions at Antenna Terminal

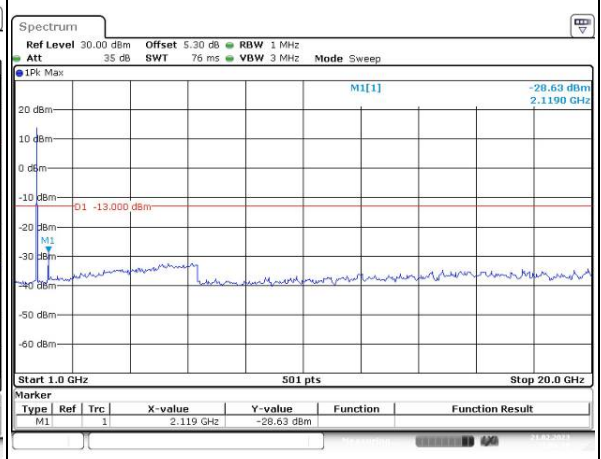
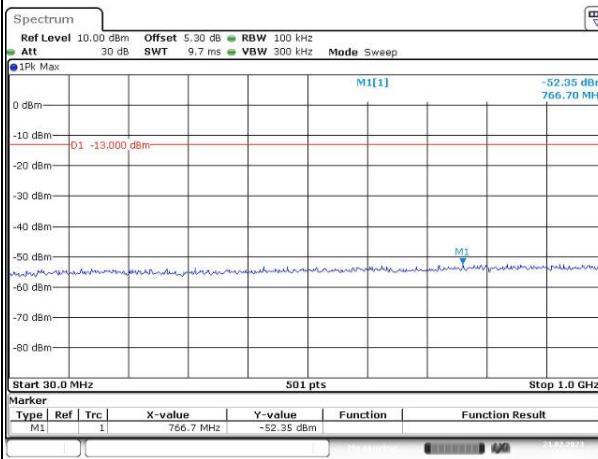
Channel

5MHz Bandwidth QPSK

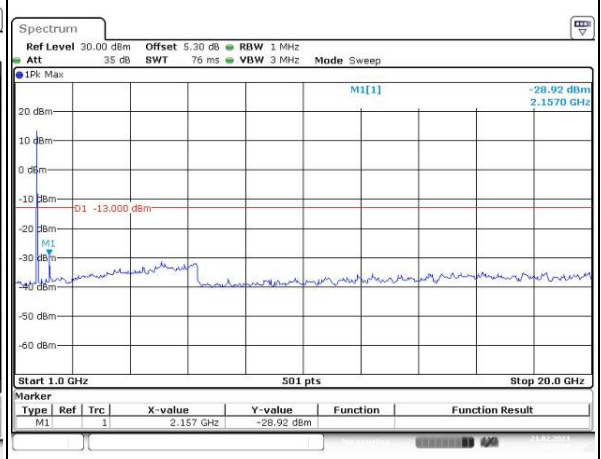
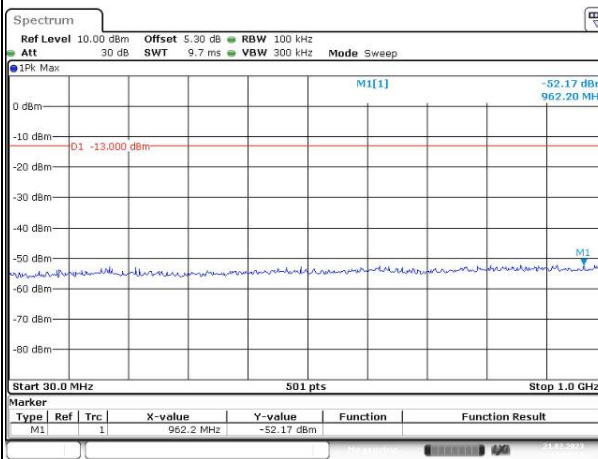
Lowest



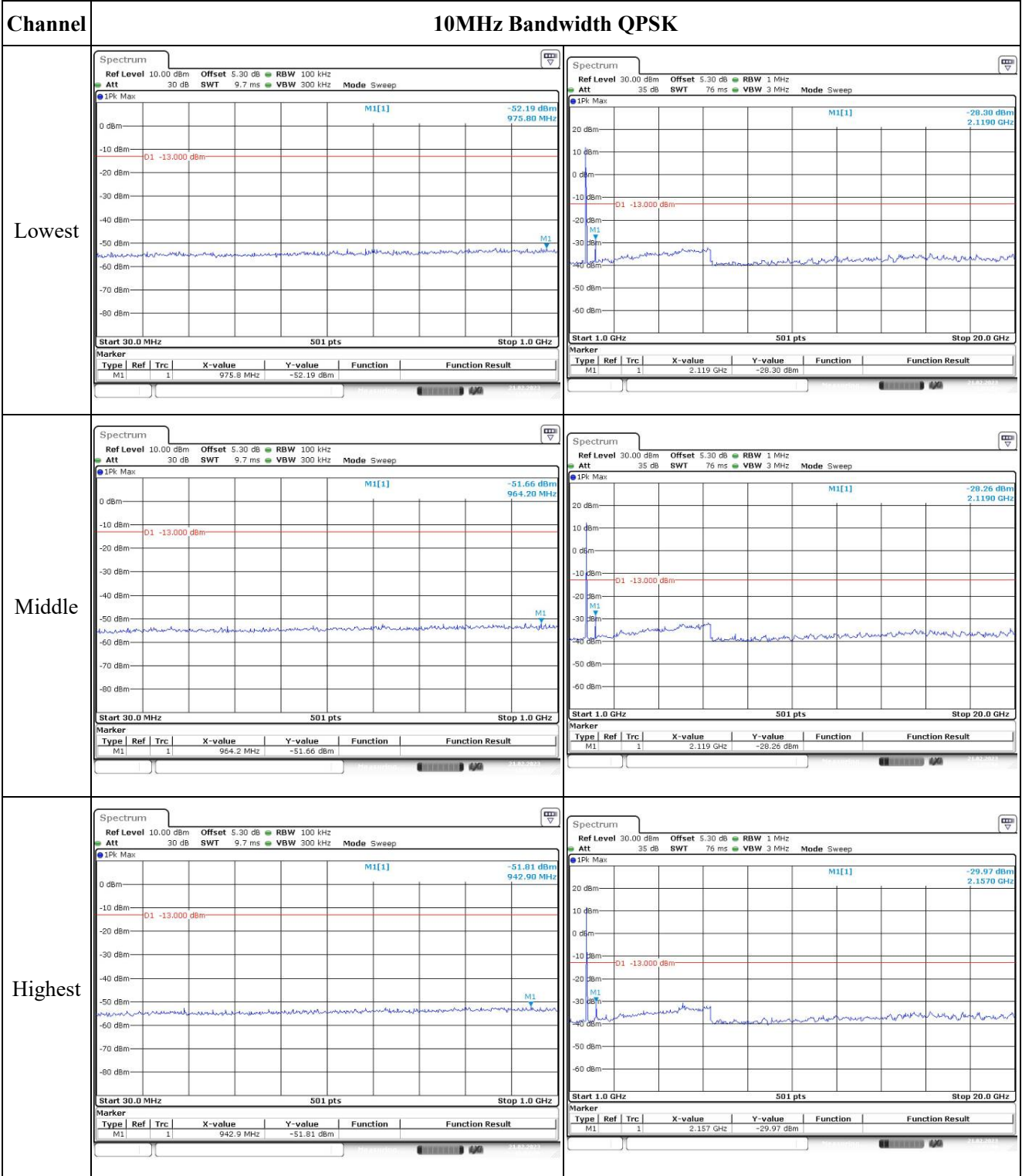
Middle



Highest



### Spurious Emissions at Antenna Terminal

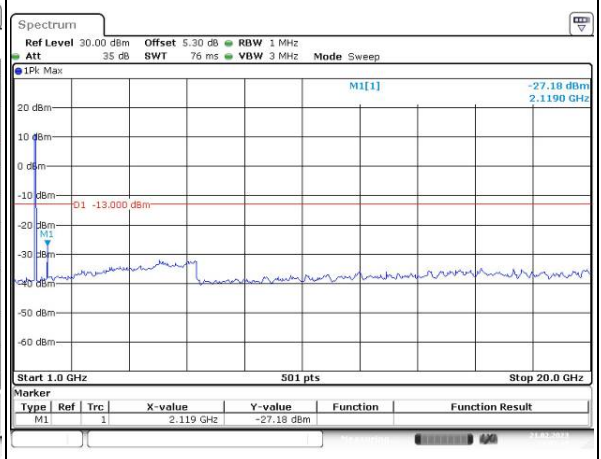
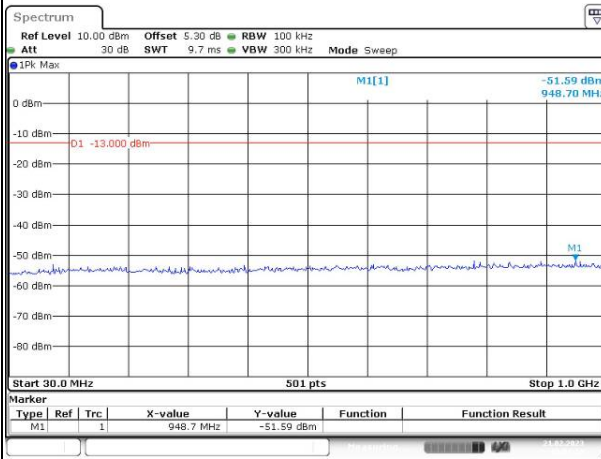


### Spurious Emissions at Antenna Terminal

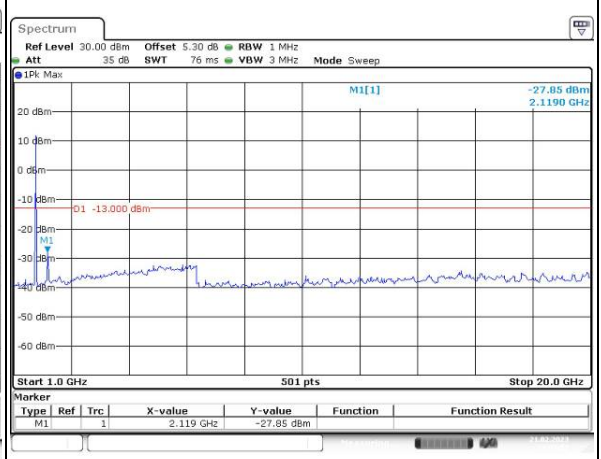
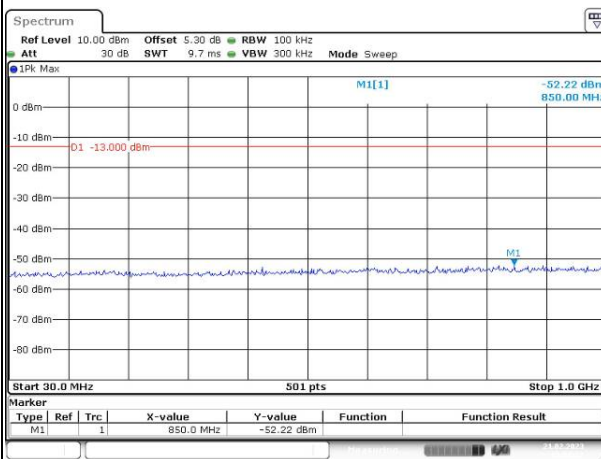
Channel

15MHz Bandwidth QPSK

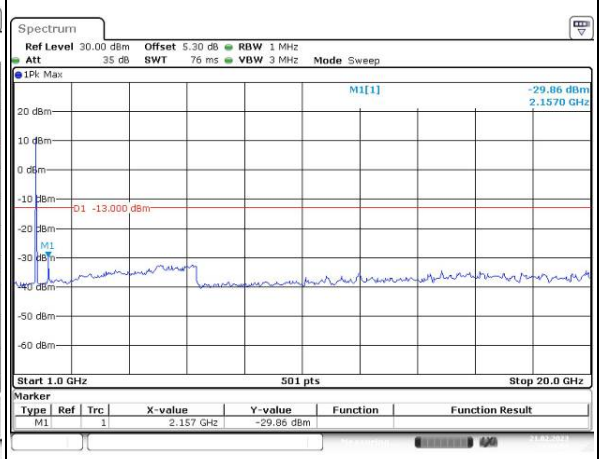
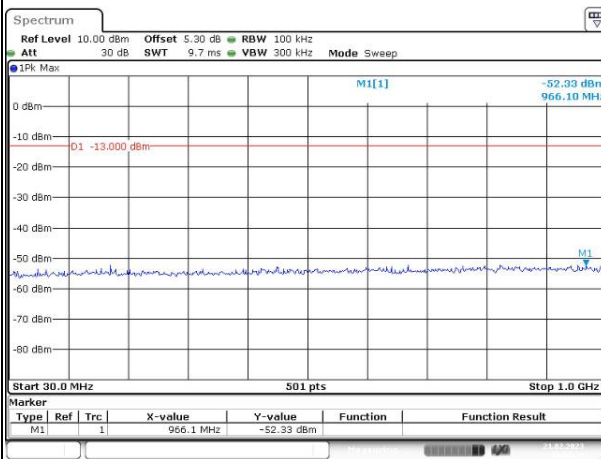
Lowest



Middle



Highest

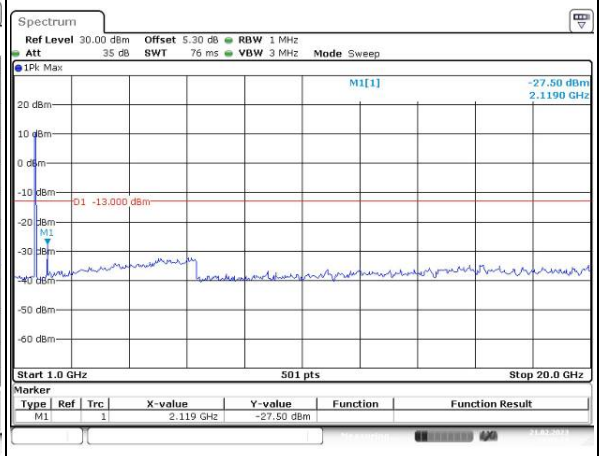
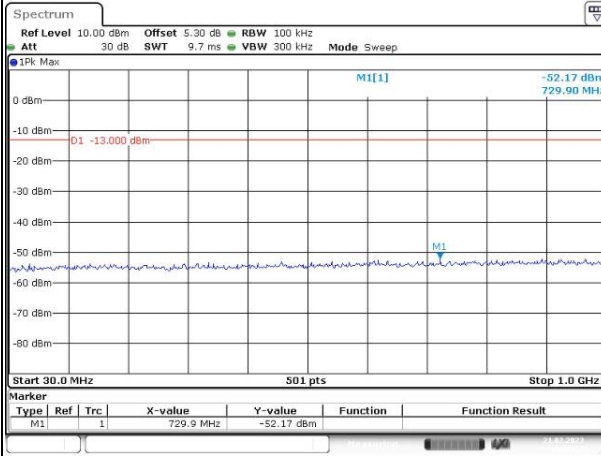


Spurious Emissions at Antenna Terminal

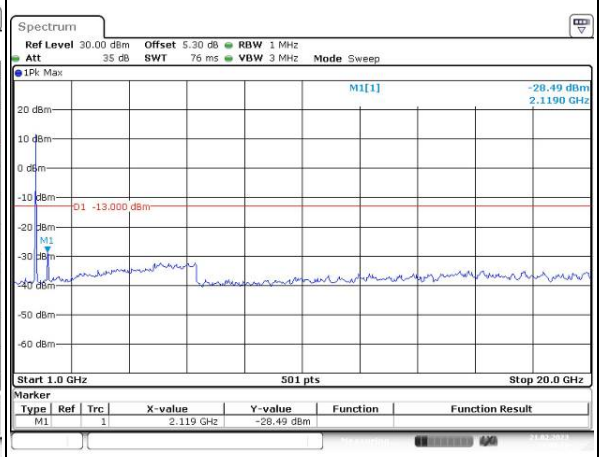
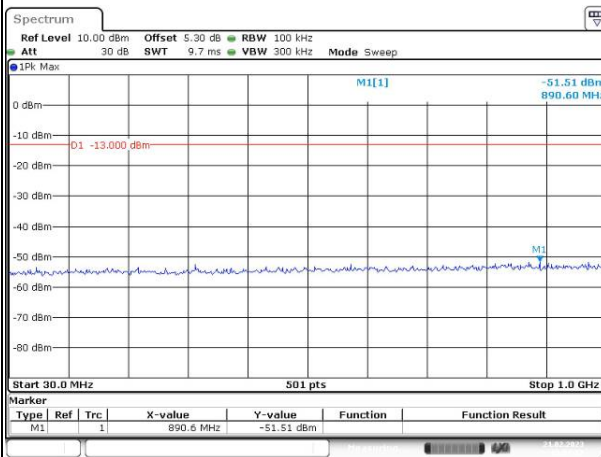
Channel

20MHz Bandwidth QPSK

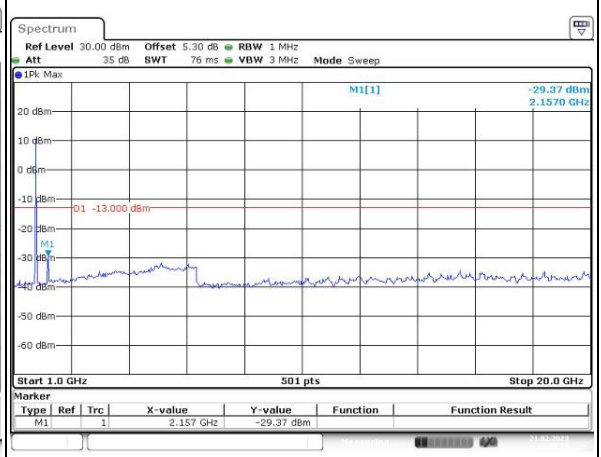
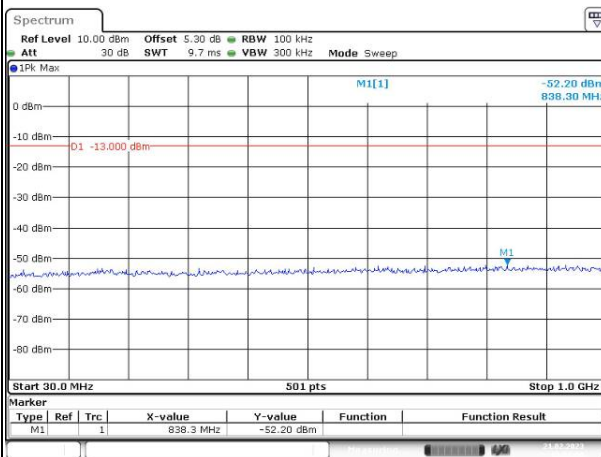
Lowest



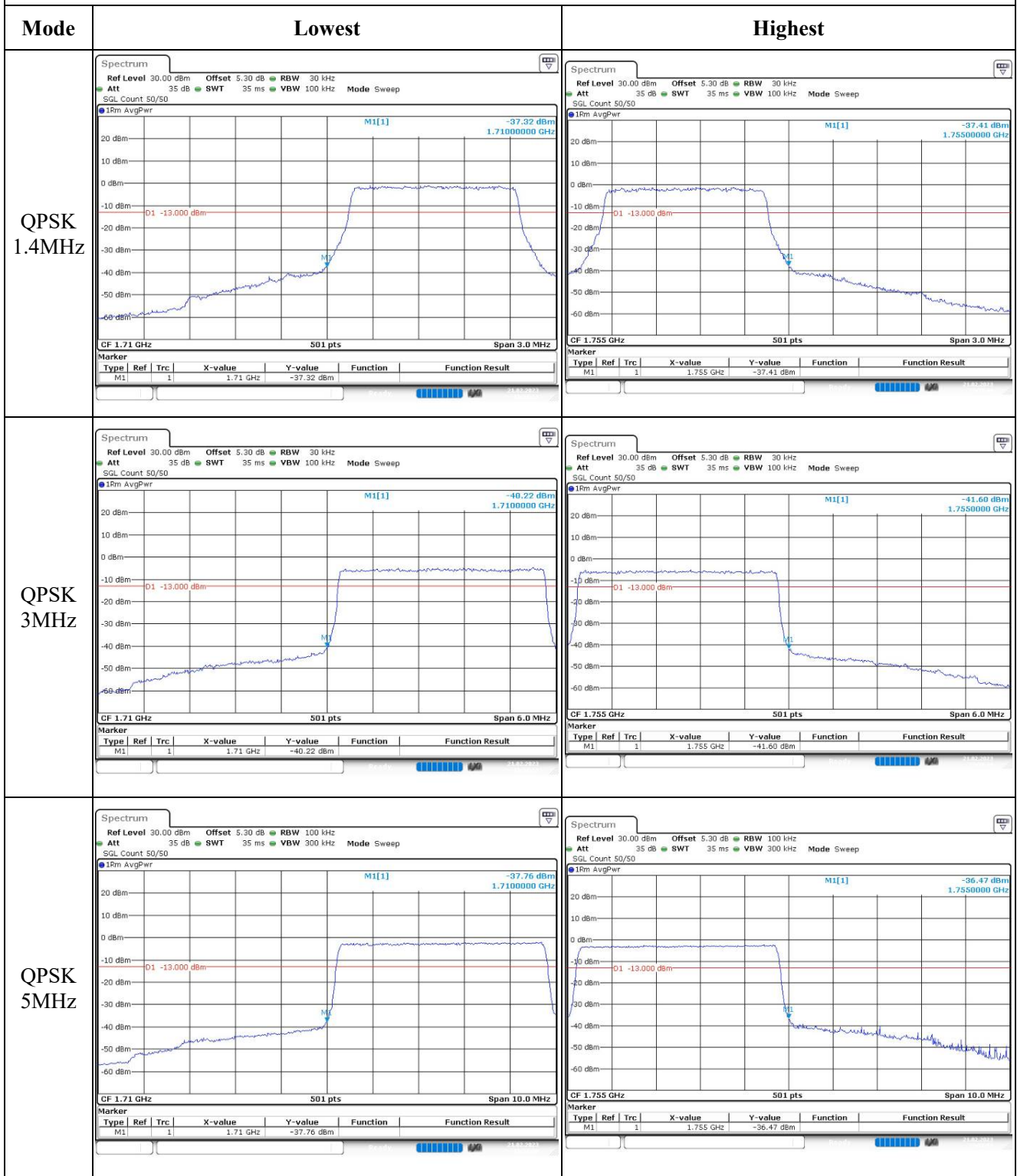
Middle



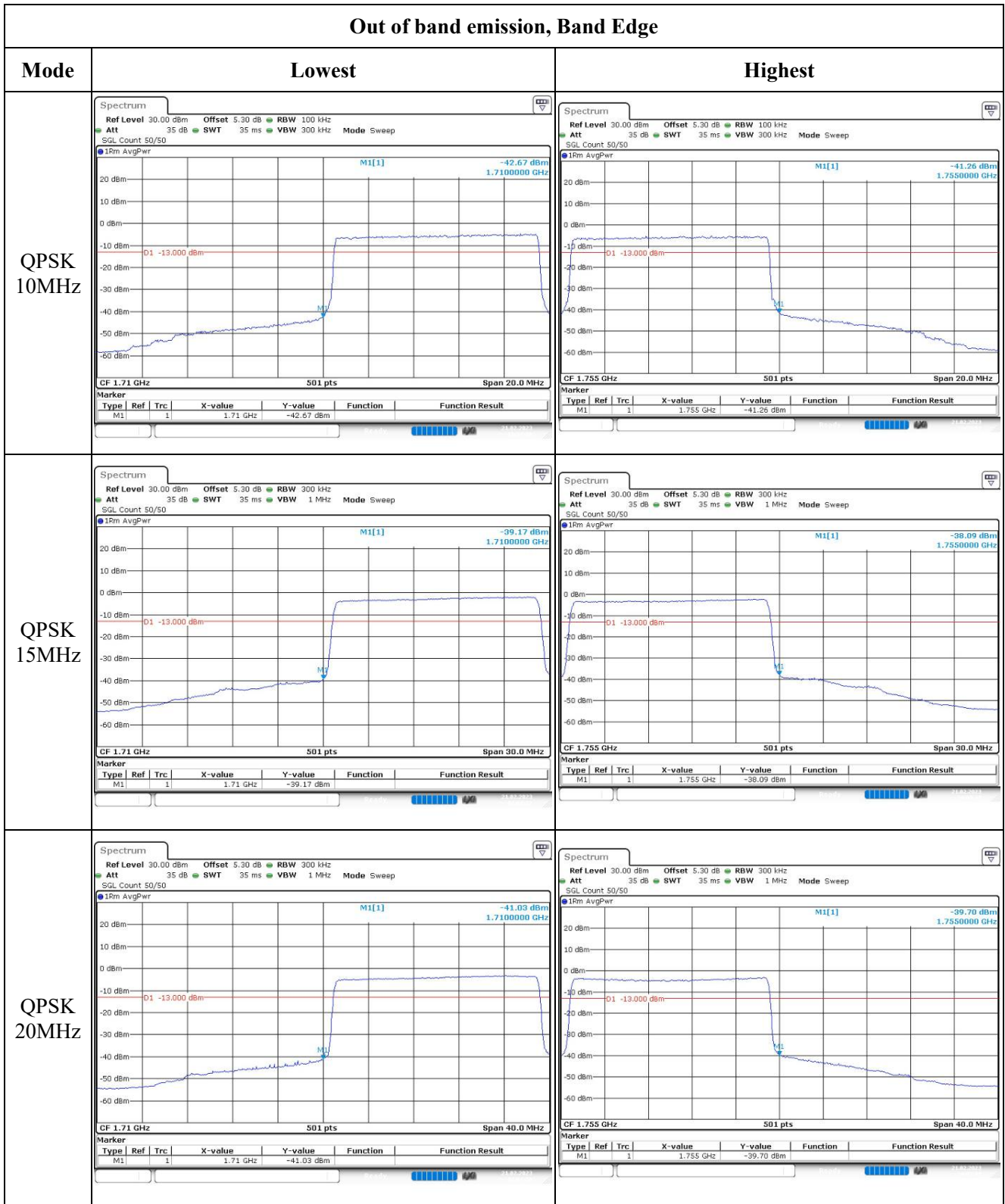
Highest



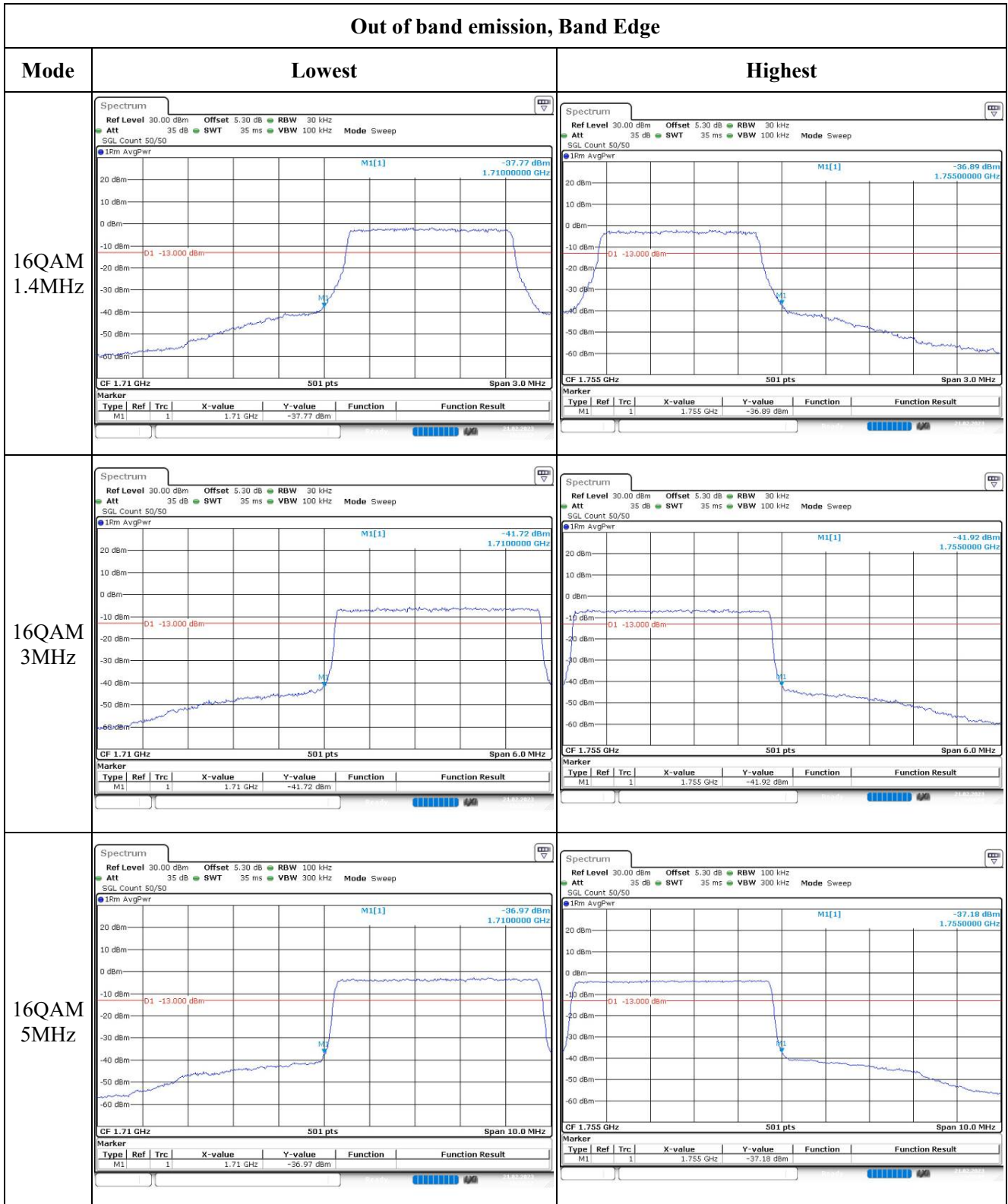
Out of band emission, Band Edge



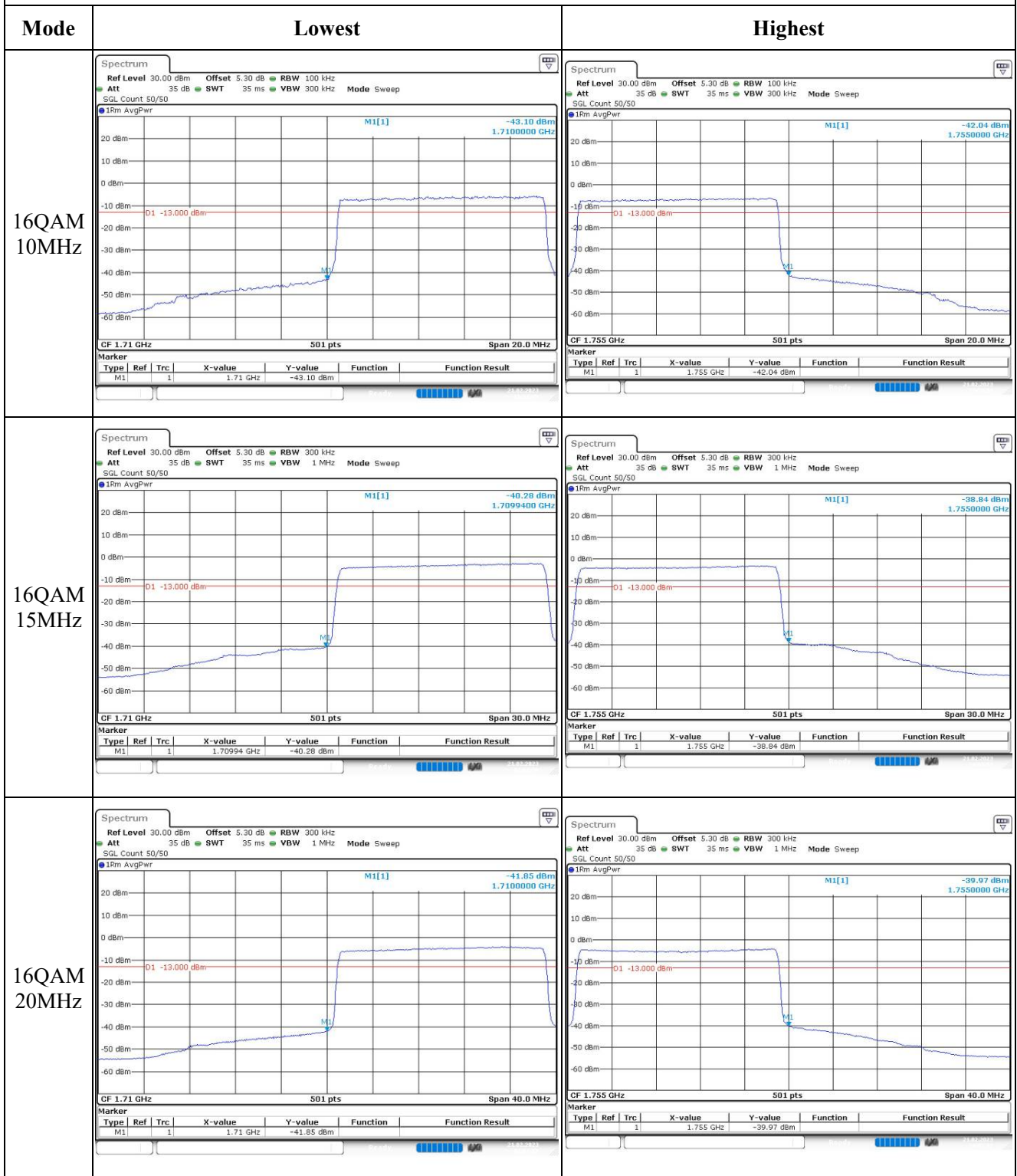
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge





**4.8 Antenna Port Test Data and Results for LTE Band 5**

Serial Number:	1WPX	Test Date:	2023/02/21~2023/02/23
Test Site:	RF	Test Mode:	Transmitting
Tester:	George	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	22.8~24.6	Relative Humidity: (%)	37~49	ATM Pressure: (kPa)	100.8~101.6
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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	2022/07/15	2023/07/14
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	2022/04/06	2023/04/05
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/09/29	2023/09/28
UNI-T	Multimeter	UT39A+	C210582554	2022/7/15	2023/7/14
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

\* Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).

**Test Frequency For Each Mode:**

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	824.7	836.5	848.3
3MHz	825.5	836.5	847.5
5MHz	826.5	836.5	846.5
10MHz	829	836.5	844

**Test Data:**

FCC§2.1046;§ 22.913 (a)						
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	24.09	22.95	22.88	17.31	38.45
	RB1#3	24.26	23.08	22.72		
	RB1#5	24.08	22.96	22.37		
	RB3#0	24.16	22.96	22.47		
	RB3#3	24.14	22.96	22.49		
	RB6#0	23.2	21.99	21.47		
1.4MHz 16QAM	RB1#0	23.25	21.87	21.42	16.46	38.45
	RB1#3	23.41	22.09	21.59		
	RB1#5	23.26	21.87	21.4		
	RB3#0	23.06	21.96	21.68		
	RB3#3	23.13	21.98	21.69		
	RB6#0	21.1	20.93	20.51		
3MHz QPSK	RB1#0	22.99	22.97	22.94	16.06	38.45
	RB1#8	23	23.01	22.9		
	RB1#14	22.98	23	22.92		
	RB6#0	22.03	21.93	21.9		
	RB6#9	22.06	21.93	21.89		
	RB15#0	22.02	21.93	21.93		
3MHz 16QAM	RB1#0	22.14	22	22.56	15.61	38.45
	RB1#8	22.15	21.91	22.49		
	RB1#14	22.11	21.88	22.48		
	RB6#0	21.02	20.92	20.97		
	RB6#9	21.03	20.92	21.04		
	RB15#0	20.94	21	20.99		
5MHz QPSK	RB1#0	22.91	22.85	22.83	16.11	38.45
	RB1#13	23.06	22.99	22.99		
	RB1#24	22.98	22.89	22.85		
	RB15#0	22.13	21.92	21.92		
	RB15#10	21.97	21.91	22.04		
	RB25#0	22.03	21.88	22.01		
5MHz 16QAM	RB1#0	22.14	21.93	21.68	15.39	38.45
	RB1#13	22.34	21.98	21.78		
	RB1#24	22.24	21.82	21.7		
	RB15#0	21.09	20.94	21.04		
	RB15#10	20.96	20.91	21.06		
	RB25#0	21.05	20.94	21.03		
10MHz QPSK	RB1#0	22.94	22.96	22.99	16.22	38.45
	RB1#25	23.17	23.15	23.15		

	RB1#49	23	23.08	22.97		
	RB25#0	22.2	21.89	22.2		
	RB25#25	22.22	21.85	22.07		
	RB50#0	22.17	21.85	21.79		
10MHz 16QAM	RB1#0	22.08	21.95	22.15	15.52	38.45
	RB1#25	22.36	22.1	22.47		
	RB1#49	22.16	21.96	22.34		
	RB25#0	21.24	21.02	21.1		
	RB25#25	21.26	20.95	21.22		
	RB50#0	21.22	20.9	21.12		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G<sub>T</sub>(dBd)G<sub>T</sub>(dBd)=G<sub>T</sub>(dBi)-2.15**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	
10MHz QPSK	RB1#0	3.74	5.3	2.84	13
	RB50#0	5.3	4.64	4.96	13
10MHz 16QAM	RB1#0	4.55	6.26	3.86	13
	RB50#0	6.14	5.62	5.88	13

**Result: Pass****FCC §2.1049, §22.905: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	1.102	1.102	1.102	1.314	1.308	1.302
1.4MHz 16QAM	1.09	1.102	1.102	1.29	1.344	1.32
3MHz QPSK	2.683	2.683	2.683	2.88	2.868	2.88
3MHz 16QAM	2.683	2.683	2.683	2.868	2.88	2.868
5MHz QPSK	4.511	4.491	4.531	4.92	4.96	4.96
5MHz 16QAM	4.511	4.491	4.491	4.96	4.94	4.94
10MHz QPSK	8.942	8.942	8.982	9.6	9.56	9.68
10MHz 16QAM	8.942	8.942	8.982	9.68	9.56	9.6

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

**FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.</b>
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**FCC §2.1051, §22.917(a):Out of band emission, Band Edge**

<b>Result:</b>	<b>Pass, Please refer to the test plots of Out of band emission, Band Edge.</b>
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**FCC §2.1055, §22.355: Frequency Stability**

Test Modulation:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	-7.07	-0.008	2.5
	-20	3.85	-6.97	-0.008	2.5
	-10	3.85	-5.5	-0.007	2.5
	0	3.85	6.06	0.007	2.5
	10	3.85	9.8	0.012	2.5
	20	3.85	5.03	0.006	2.5
	30	3.85	-6.62	-0.008	2.5
	40	3.85	-8.73	-0.010	2.5
Frequency Stability vs. Voltage	50	3.85	-7.05	-0.008	2.5
	20	3.45	8.99	0.011	2.5
	20	4.4	-7.17	-0.009	2.5
				<b>Result:</b>	<b>Pass</b>

Test Modulation:	10 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature(°C)	Voltage(V <sub>DC</sub> )	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.85	-7.71	-0.009	2.5
	-20	3.85	8.1	0.010	2.5
	-10	3.85	-8.59	-0.010	2.5
	0	3.85	9.33	0.011	2.5
	10	3.85	-6.94	-0.008	2.5
	20	3.85	7.54	0.009	2.5
	30	3.85	6.43	0.008	2.5
	40	3.85	-6.17	-0.007	2.5
Frequency Stability vs. Voltage	50	3.85	-6.44	-0.008	2.5
	20	3.45	6.34	0.008	2.5
	20	4.4	-6.89	-0.008	2.5
				<b>Result:</b>	<b>Pass</b>

**Test Plots**(Note: The 5.3dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

**Occupied Bandwidth**

