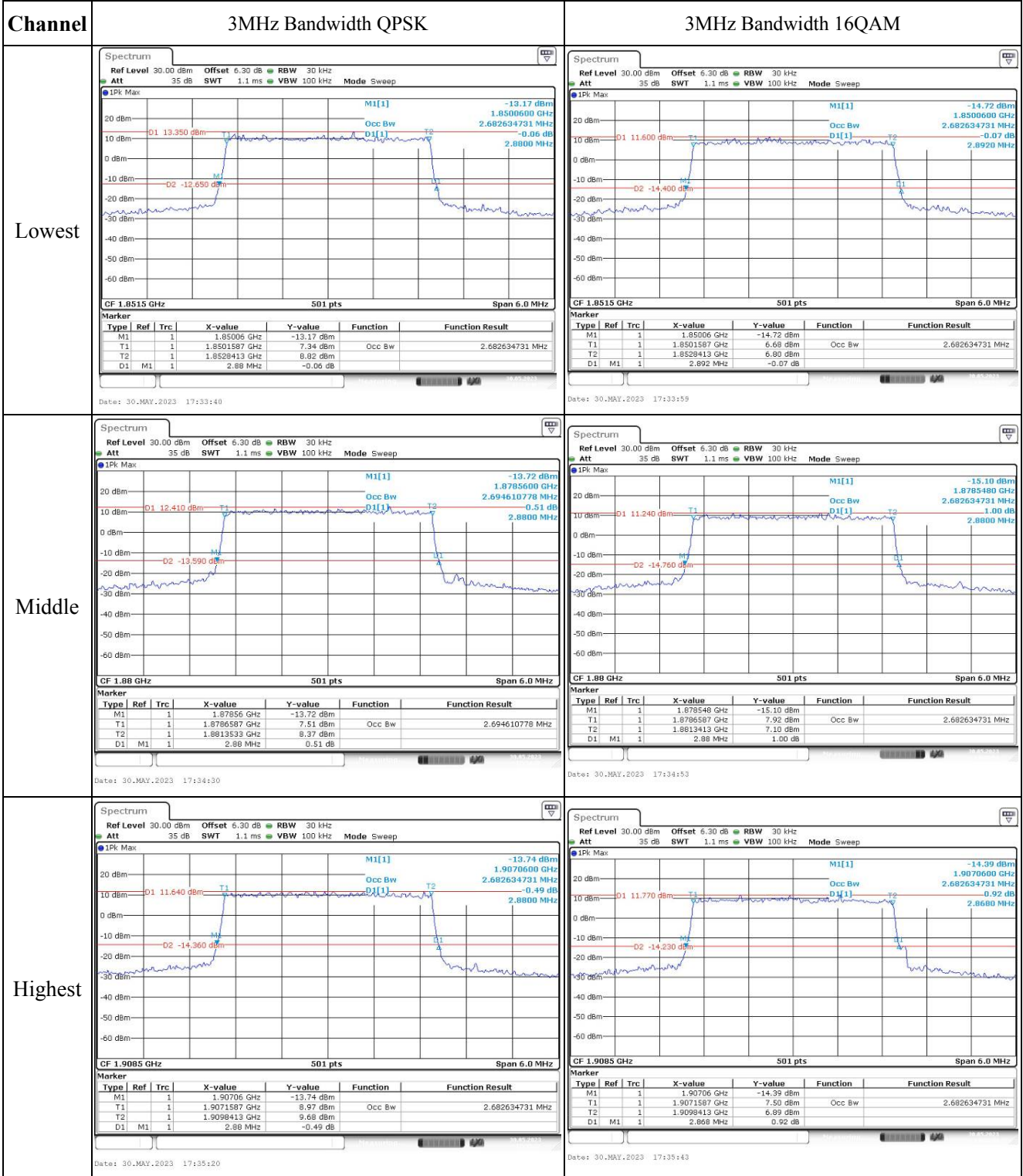


Occupied Bandwidth



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM																																																																						
Lowest	<p>CF 1.8525 GHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.85004 GHz</td> <td>-10.40 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.8502445 GHz</td> <td>10.92 dBm</td> <td>Occ Bw</td> <td>4.510978044 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.8547555 GHz</td> <td>10.34 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.94 MHz</td> <td>-0.66 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 17:40:10</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.85004 GHz	-10.40 dBm			T1	1		1.8502445 GHz	10.92 dBm	Occ Bw	4.510978044 MHz	T2	1		1.8547555 GHz	10.34 dBm			D1	M1	1	4.94 MHz	-0.66 dB			<p>CF 1.8525 GHz 501 pts Span 10.0 MHz</p> <table border="1"> <thead> <tr> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td>1.85004 GHz</td> <td>-10.97 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td>1.8502645 GHz</td> <td>9.25 dBm</td> <td>Occ Bw</td> <td>4.491017964 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td>1.8547555 GHz</td> <td>8.46 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td>4.92 MHz</td> <td>-1.55 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 17:40:17</p>	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1		1.85004 GHz	-10.97 dBm			T1	1		1.8502645 GHz	9.25 dBm	Occ Bw	4.491017964 MHz	T2	1		1.8547555 GHz	8.46 dBm			D1	M1	1	4.92 MHz	-1.55 dB		
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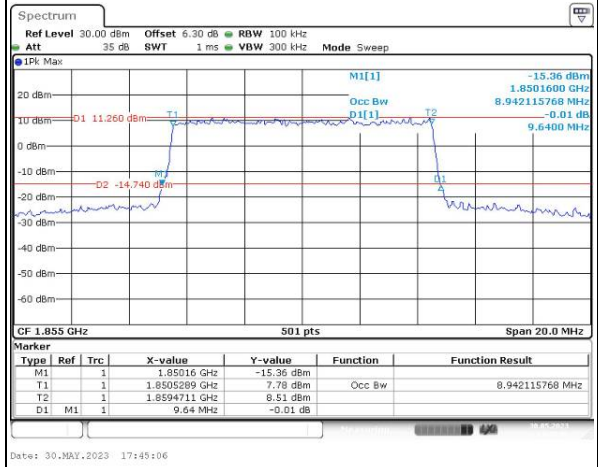
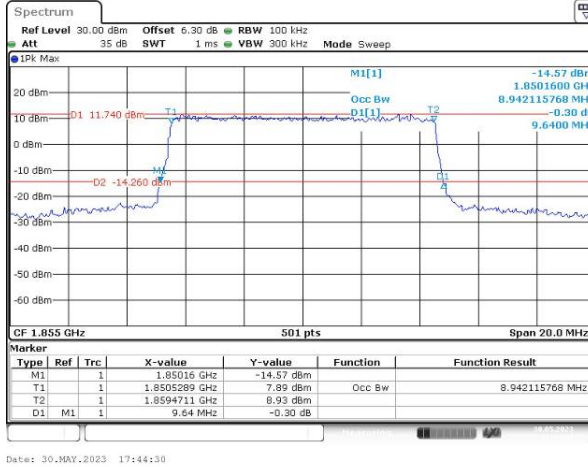
Occupied Bandwidth

Channel

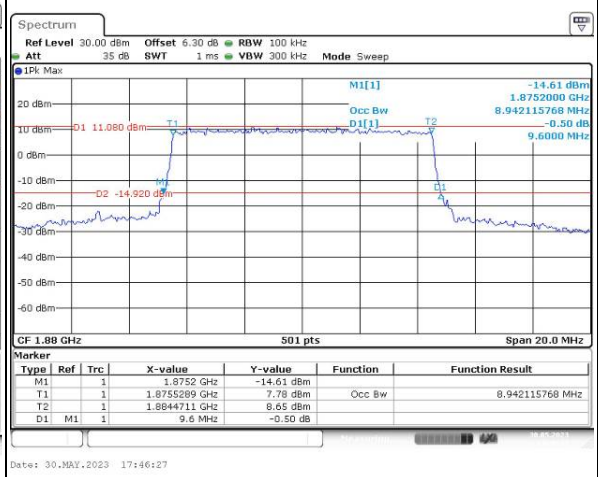
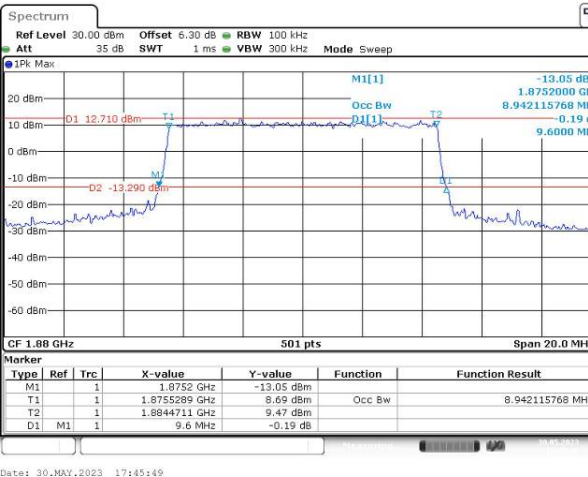
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

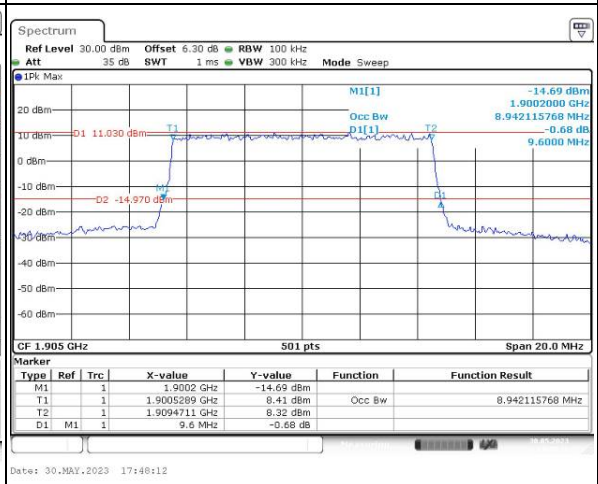
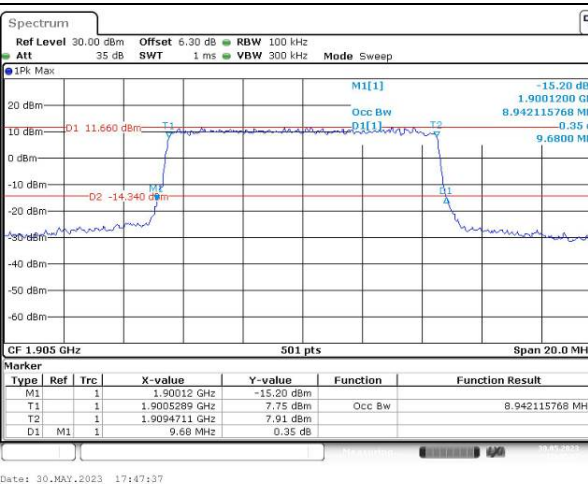
Lowest



Middle



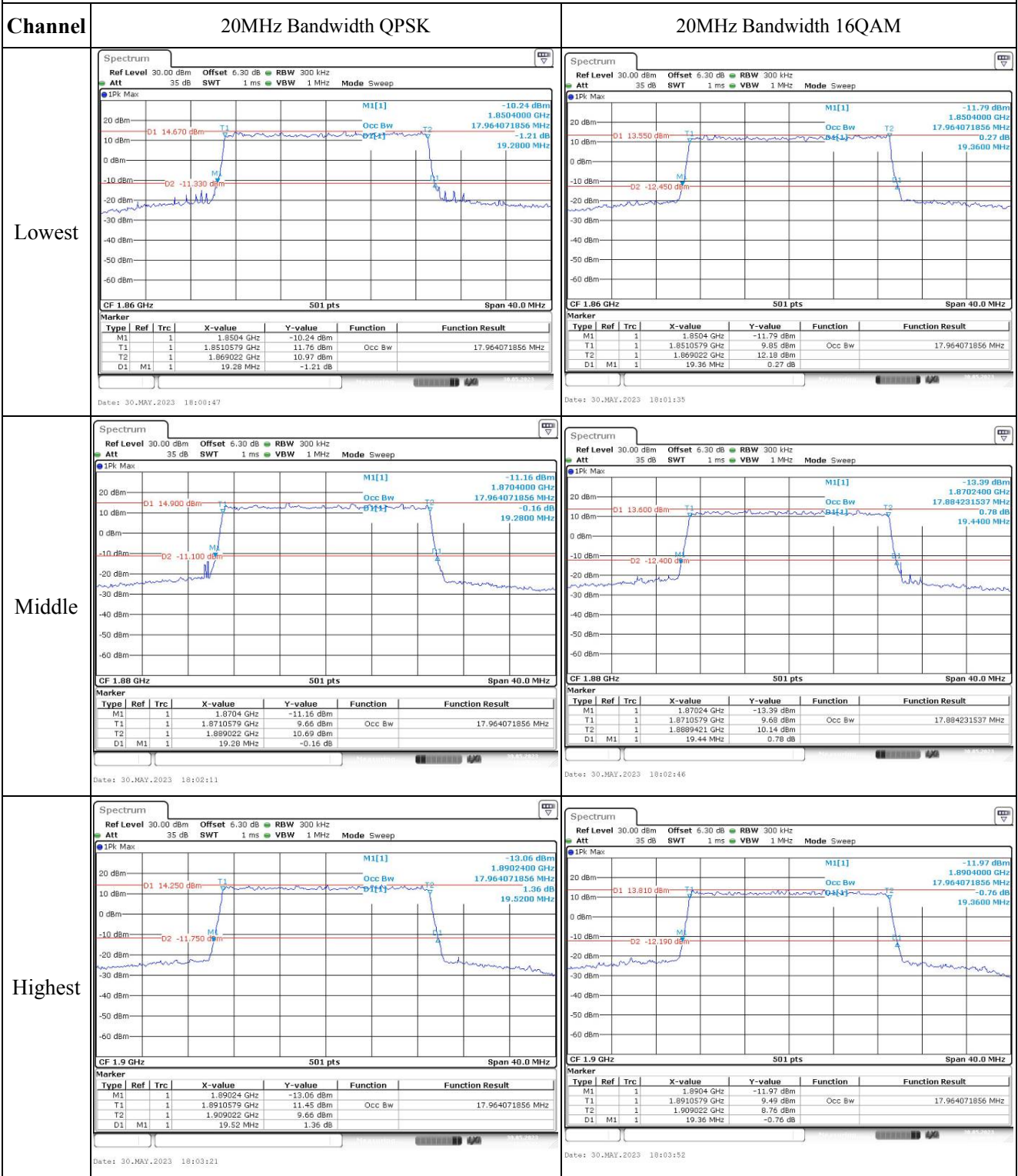
Highest



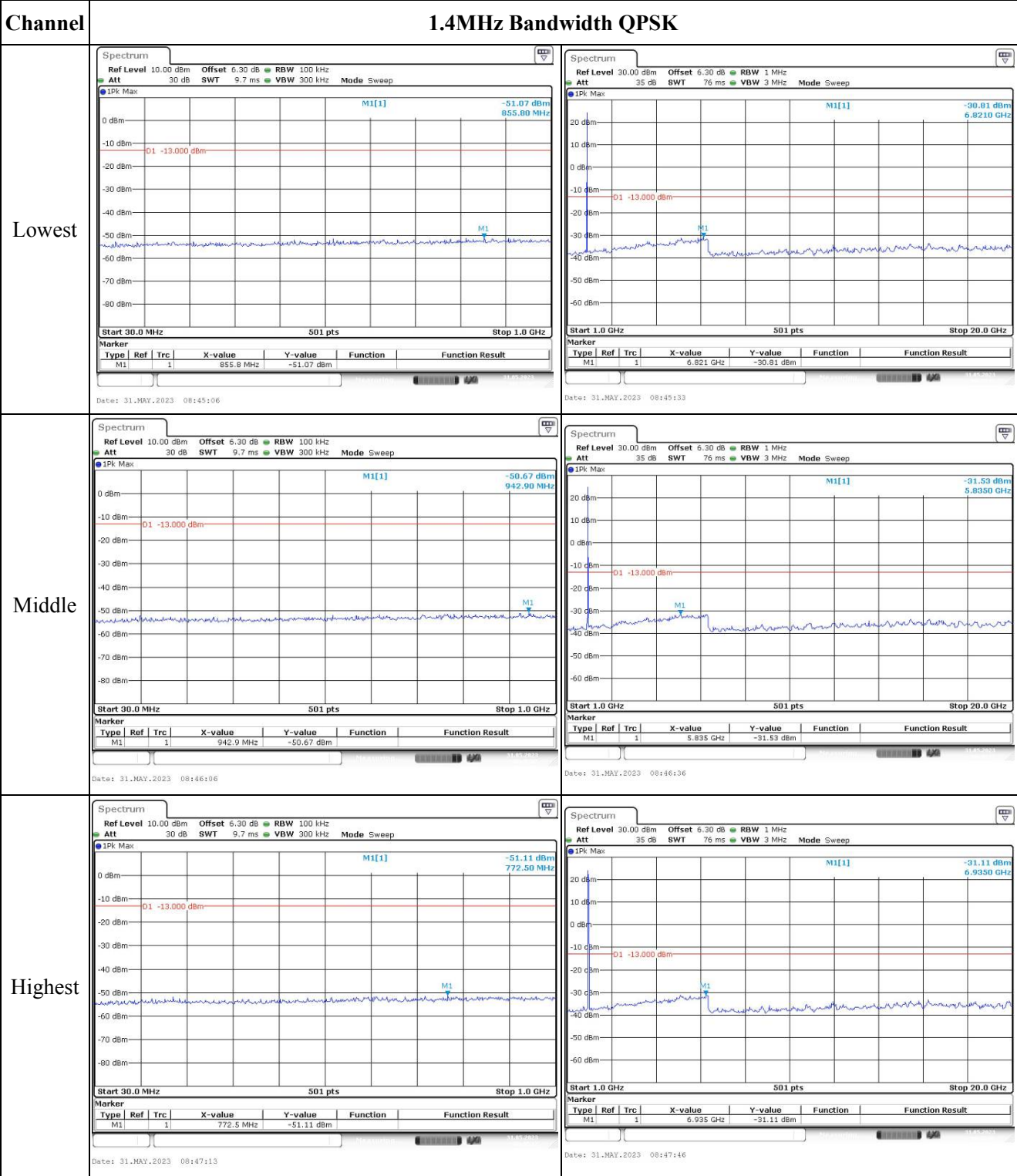
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Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM																																																																																
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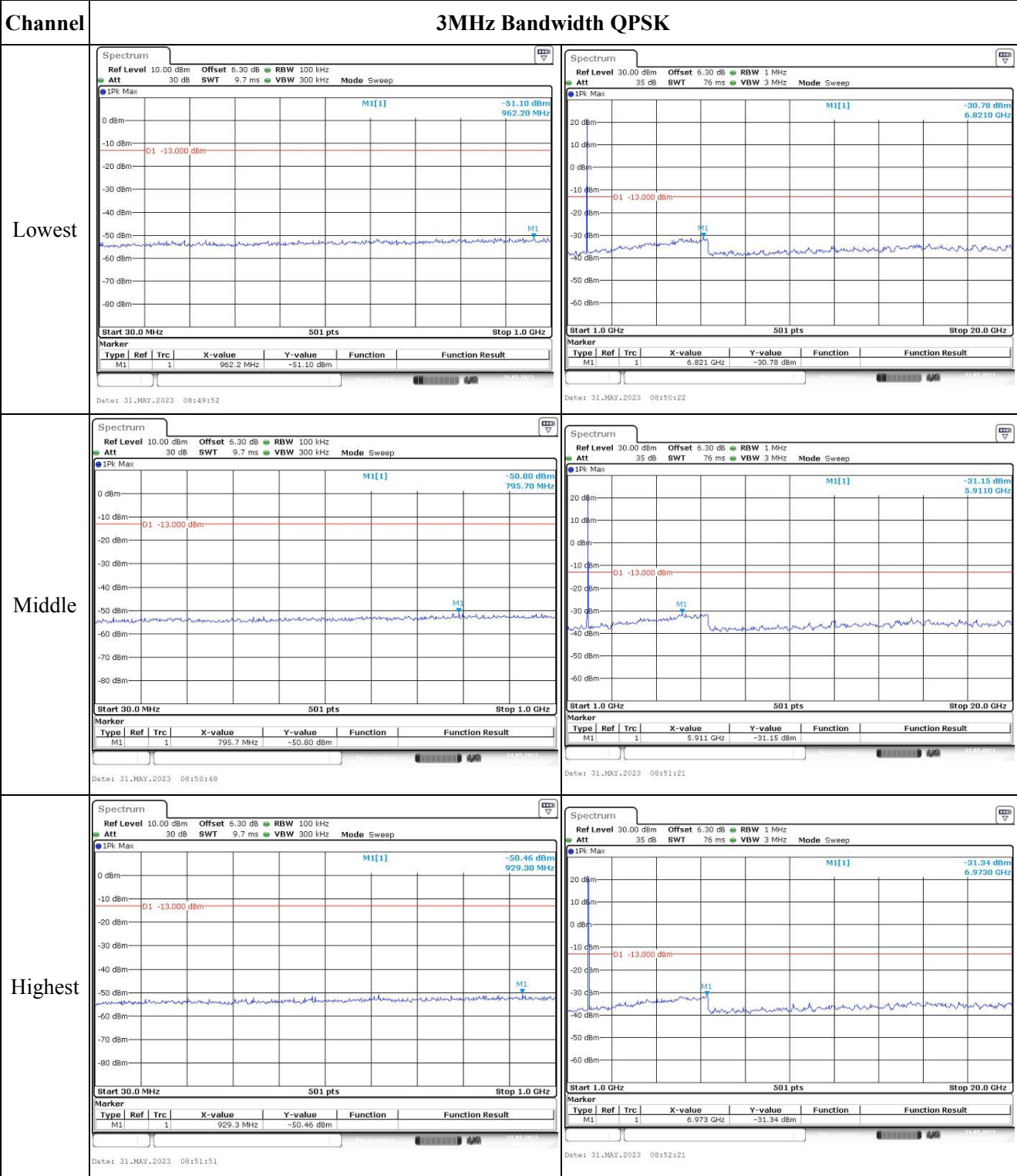
Occupied Bandwidth



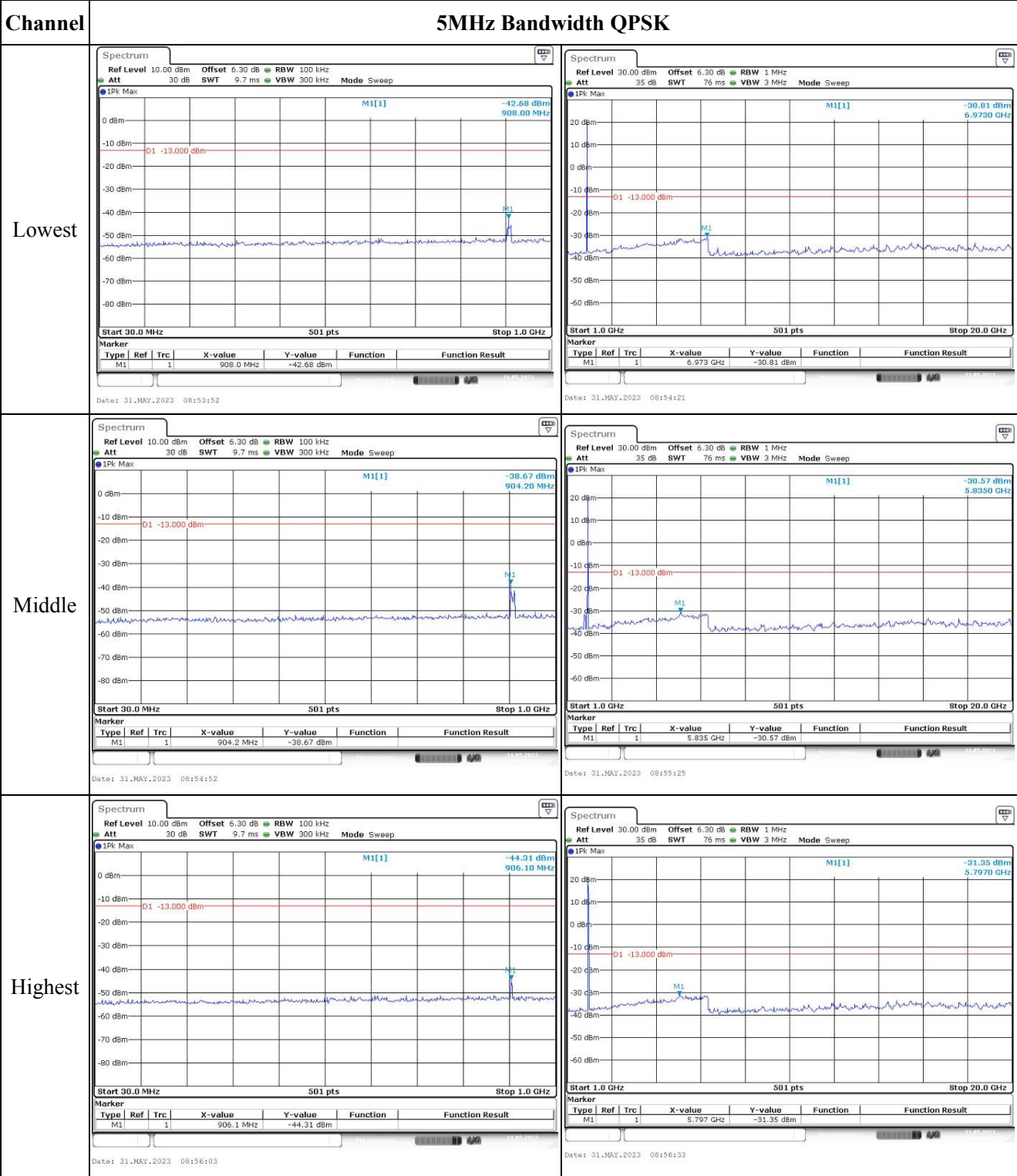
Spurious Emissions at Antenna Terminal



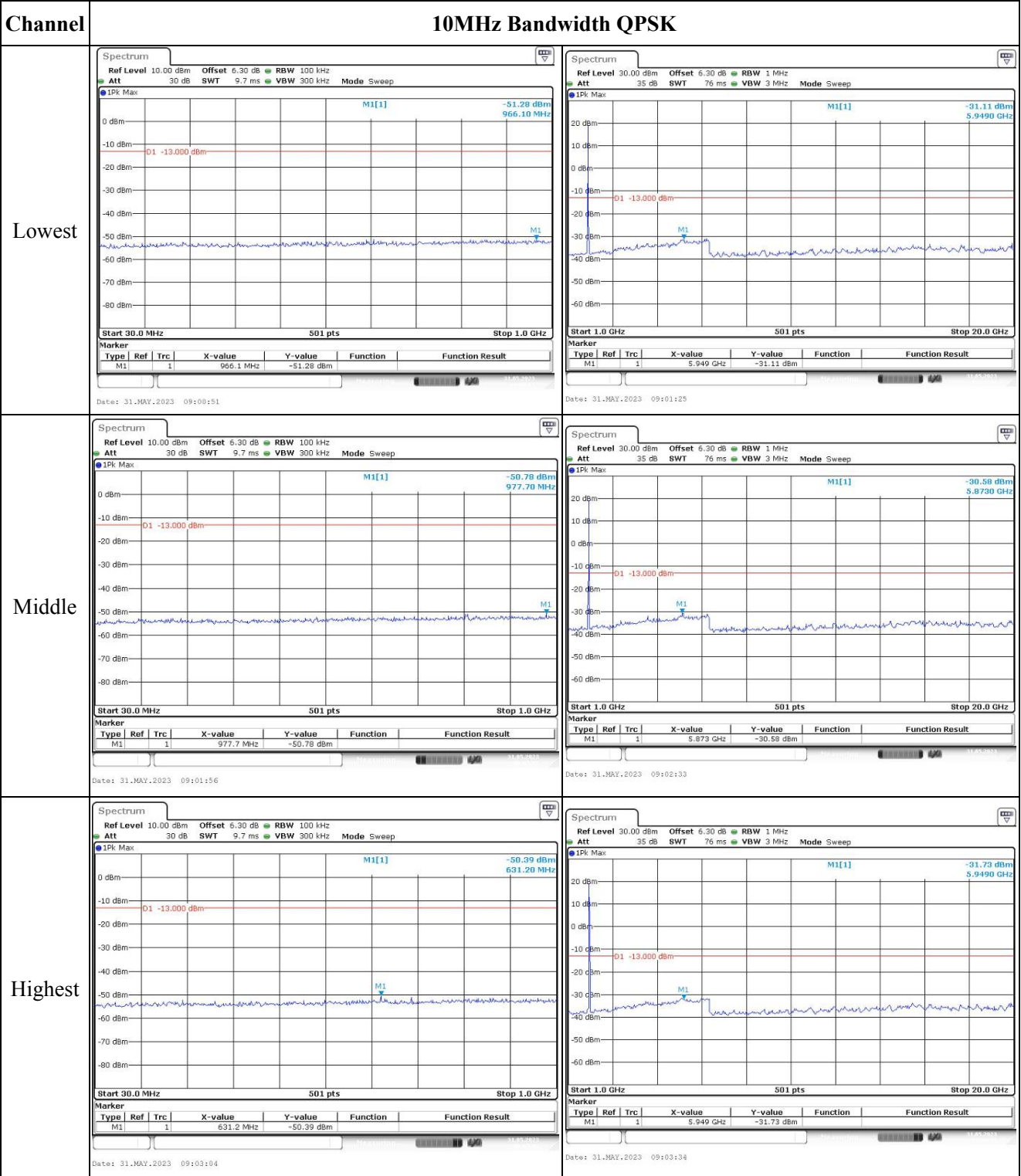
Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal



Spurious Emissions at Antenna Terminal

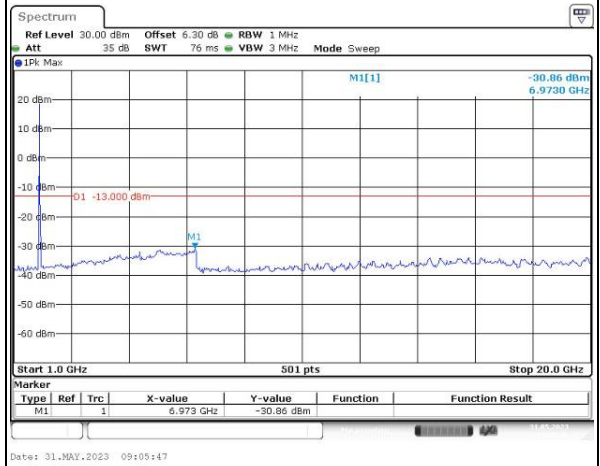
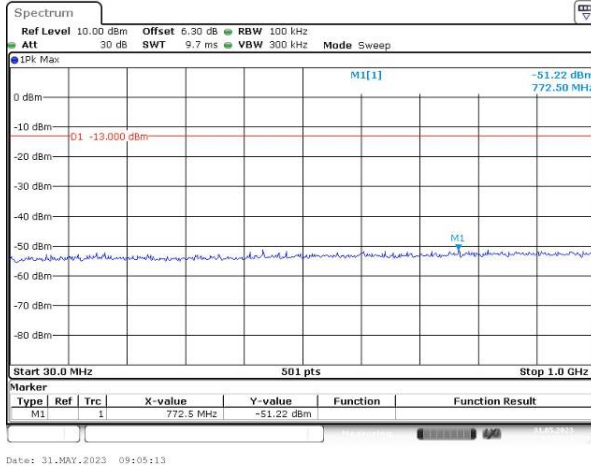


Spurious Emissions at Antenna Terminal

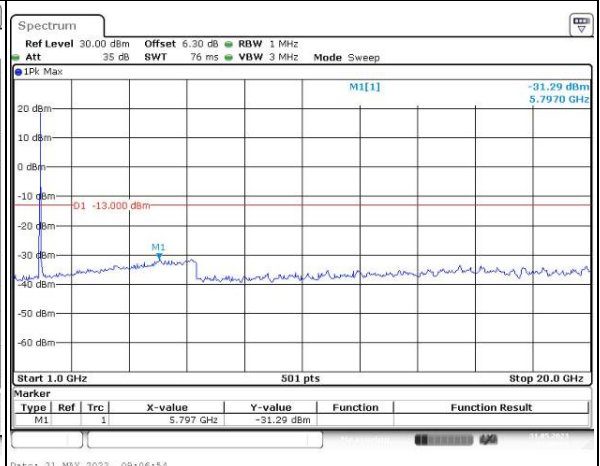
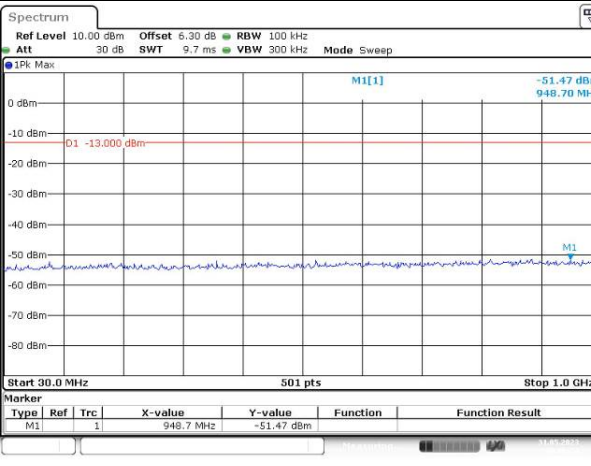
Channel

15MHz Bandwidth QPSK

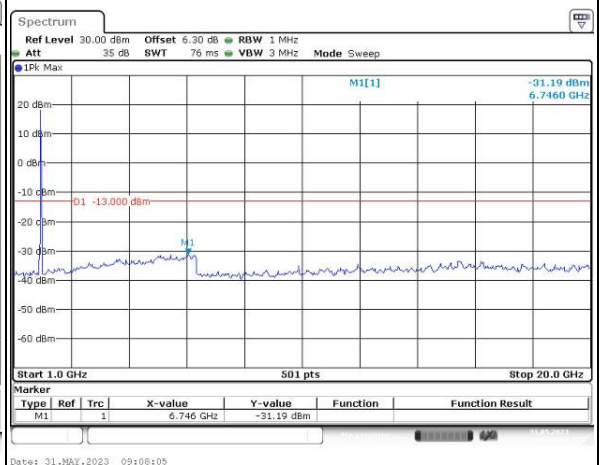
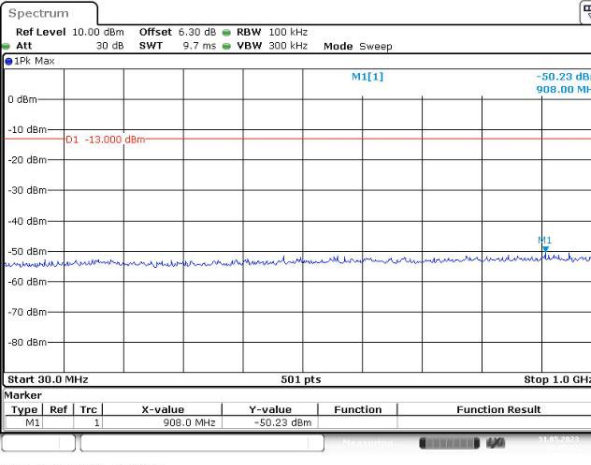
Lowest



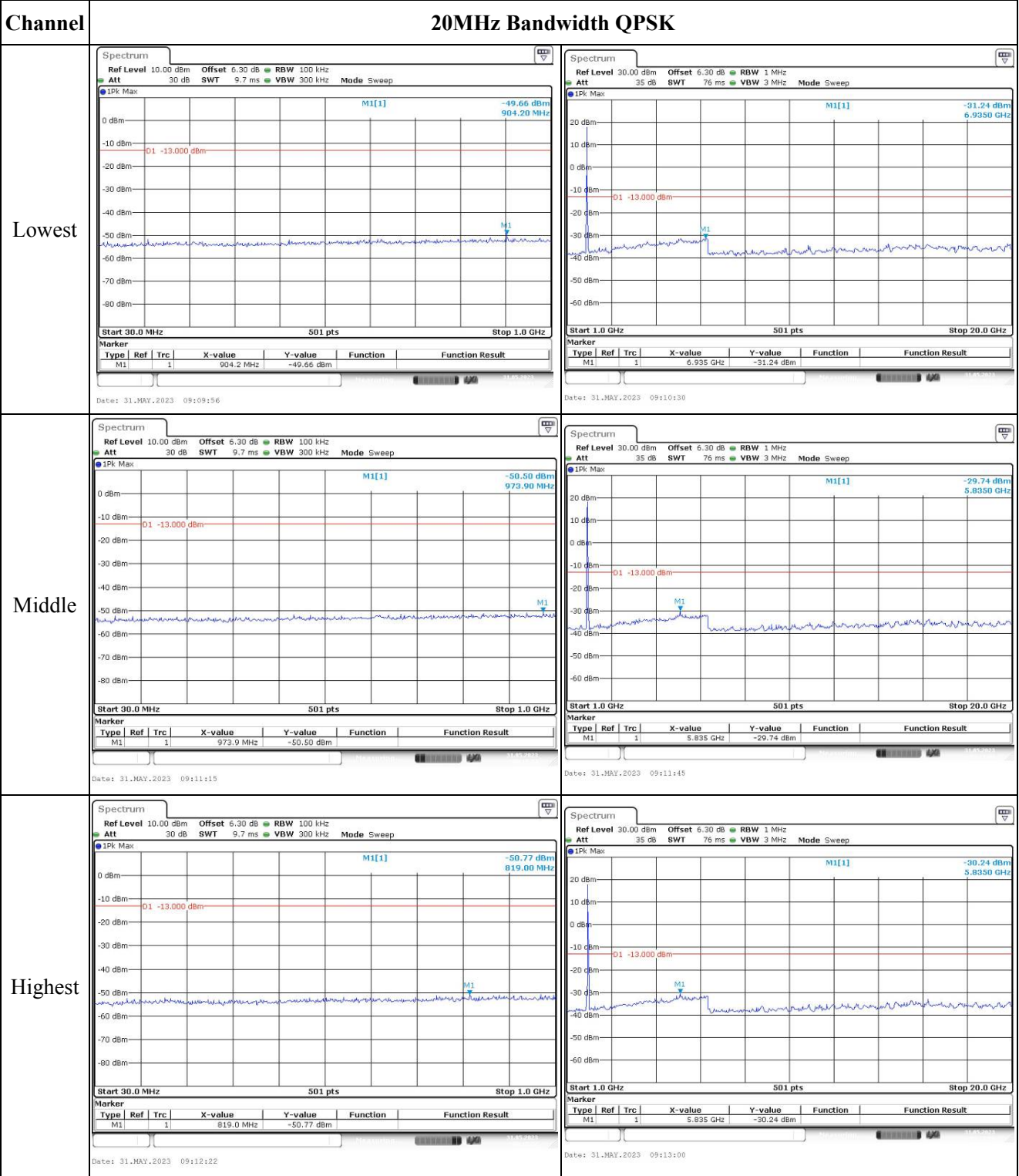
Middle



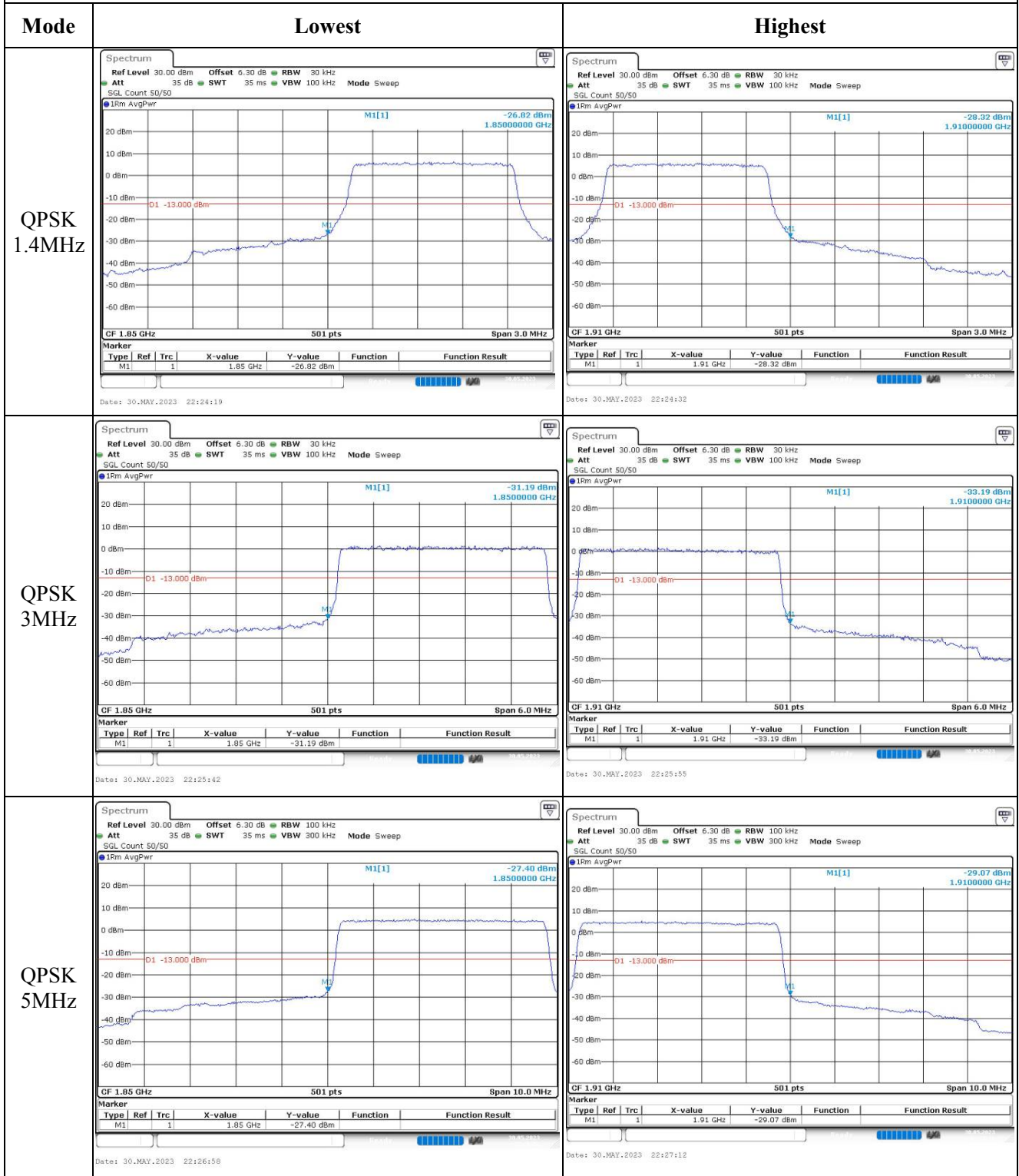
Highest



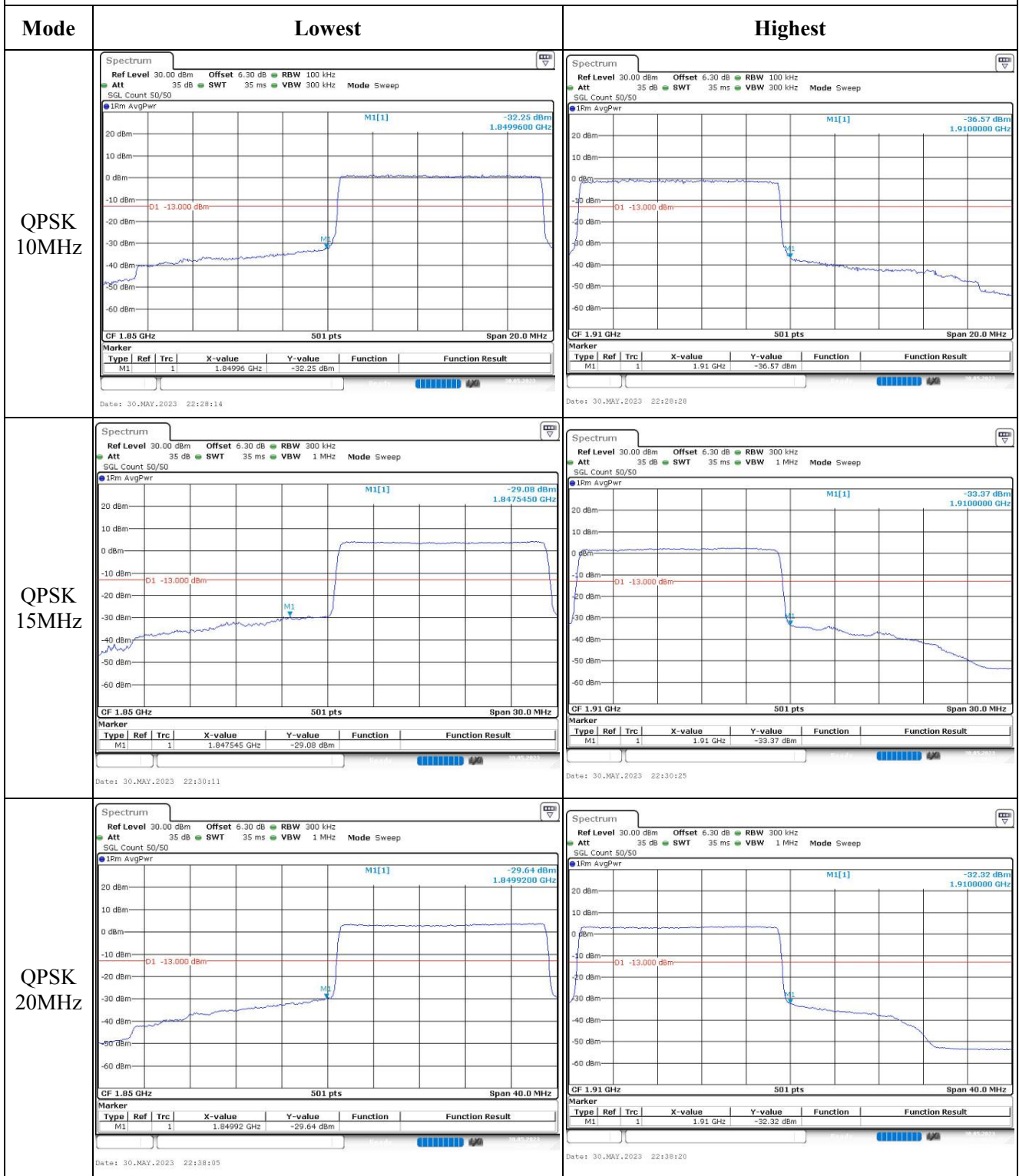
Spurious Emissions at Antenna Terminal



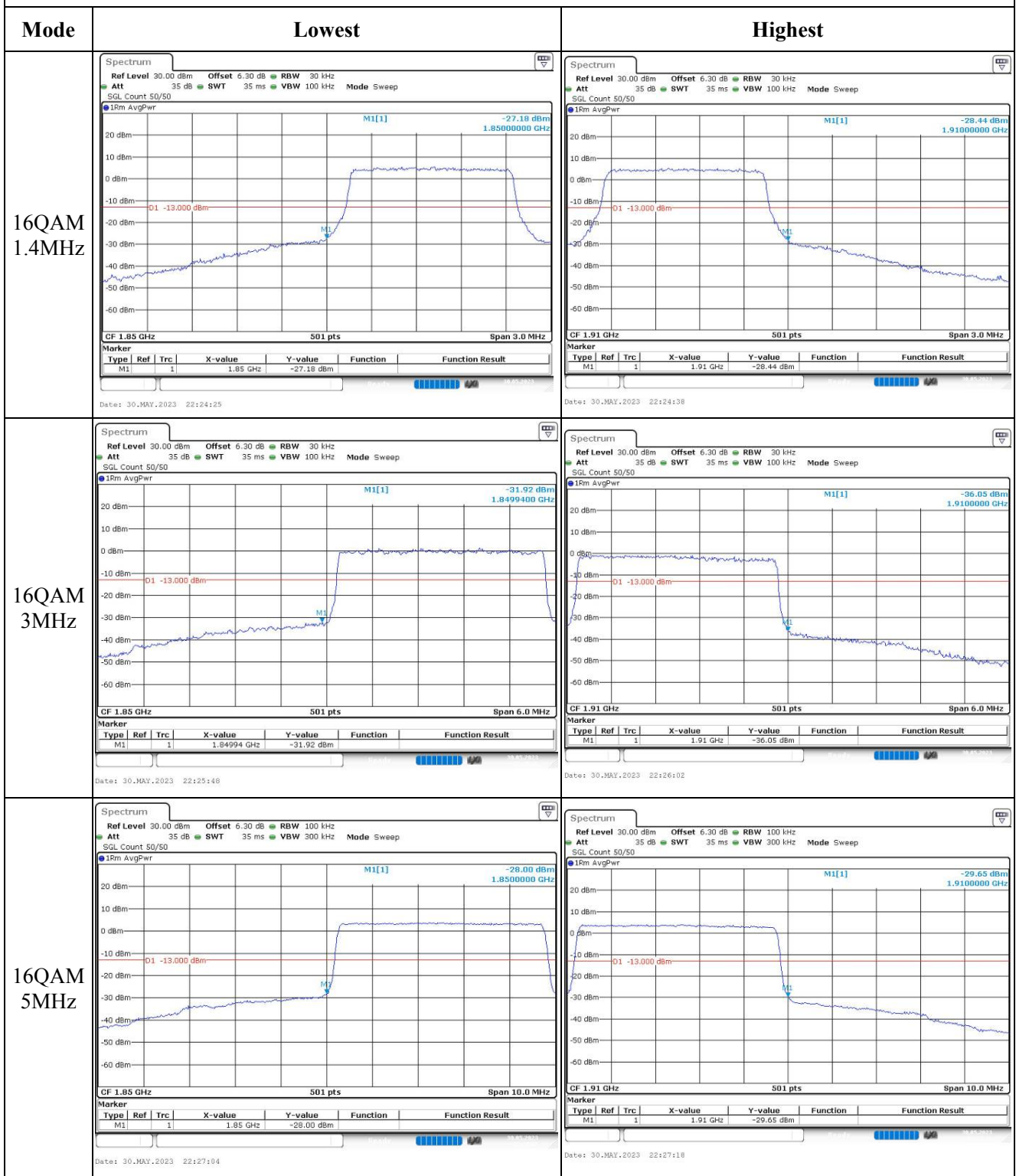
Out of band emission, Band Edge



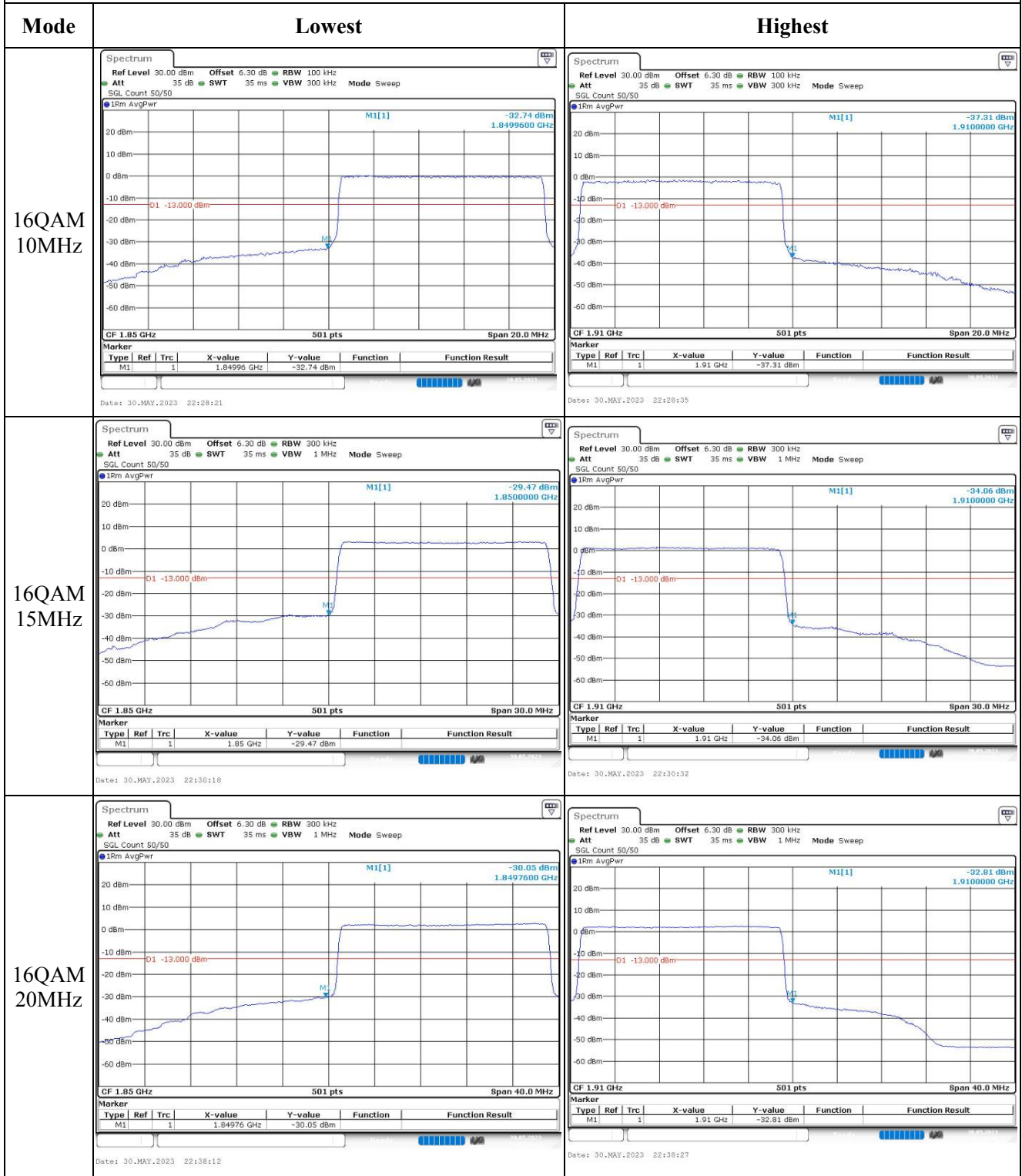
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 4

Serial Number:	25K9-3	Test Date:	2023/05/30~2023/05/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature:	26.7~27.2	Relative Humidity:	49~55	ATM Pressure:	99.6~100.0
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
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
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

* 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	1710.7	1732.5	1754.3
3MHz	1711.5	1732.5	1753.5
5MHz	1712.5	1732.5	1752.5
10MHz	1715	1732.5	1750
15MHz	1717.5	1732.5	1747.5
20MHz	1720	1732.5	1745

Test Data:

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		
1.4MHz QPSK	RB1#0	22.61	22.64	22.56	24.62	30
	RB1#3	22.8	22.82	22.71		
	RB1#5	22.61	22.65	22.56		
	RB3#0	22.67	22.74	22.66		
	RB3#3	22.64	22.76	22.66		
	RB6#0	21.69	21.74	21.6		
1.4MHz 16QAM	RB1#0	21.67	21.68	21.55	23.71	30
	RB1#3	21.91	21.79	21.72		
	RB1#5	21.73	21.7	21.57		
	RB3#0	21.64	21.75	21.77		
	RB3#3	21.59	21.69	21.78		
	RB6#0	20.73	20.68	20.68		
3MHz QPSK	RB1#0	22.66	22.76	22.7	24.56	30
	RB1#8	22.72	22.75	22.63		
	RB1#14	22.69	22.73	22.56		
	RB6#0	21.66	21.7	21.66		
	RB6#9	21.65	21.69	21.64		
	RB15#0	21.69	21.72	21.66		
3MHz 16QAM	RB1#0	21.77	21.72	22.19	23.99	30
	RB1#8	21.82	21.77	22.17		
	RB1#14	21.81	21.72	22.12		
	RB6#0	20.73	20.65	20.71		
	RB6#9	20.74	20.68	20.72		
	RB15#0	20.65	20.81	20.75		
5MHz QPSK	RB1#0	22.55	22.65	22.61	24.55	30
	RB1#13	22.72	22.75	22.68		
	RB1#24	22.5	22.65	22.52		
	RB15#0	21.68	21.69	21.7		
	RB15#10	21.71	21.68	21.59		
	RB25#0	21.62	21.66	21.6		
5MHz 16QAM	RB1#0	21.45	21.91	21.64	23.86	30
	RB1#13	21.6	22.06	21.78		
	RB1#24	21.49	21.91	21.6		
	RB15#0	20.74	20.71	20.76		
	RB15#10	20.76	20.79	20.67		
	RB25#0	20.74	20.71	20.66		

10MHz QPSK	RB1#0	22.67	22.69	22.66	24.72	30
	RB1#25	22.92	22.9	22.84		
	RB1#49	22.77	22.76	22.64		
	RB25#0	21.68	21.73	21.72		
	RB25#25	21.78	21.74	21.65		
	RB50#0	21.72	21.74	21.67		
10MHz 16QAM	RB1#0	21.77	21.68	22.18	24.19	30
	RB1#25	22.01	21.9	22.39		
	RB1#49	21.84	21.71	22.12		
	RB25#0	20.75	20.85	20.82		
	RB25#25	20.82	20.88	20.72		
	RB50#0	20.8	20.82	20.76		
15MHz QPSK	RB1#0	22.54	22.63	22.64	24.58	30
	RB1#38	22.69	22.78	22.72		
	RB1#74	22.58	22.66	22.37		
	RB36#0	21.77	21.75	21.75		
	RB36#39	21.81	21.76	21.74		
	RB75#0	21.78	21.74	21.74		
15MHz 16QAM	RB1#0	22.06	21.76	21.99	24.07	30
	RB1#38	22.23	21.87	22.08		
	RB1#74	22.22	21.76	22.27		
	RB36#0	20.72	20.77	20.78		
	RB36#39	20.82	20.78	20.7		
	RB75#0	20.78	20.77	20.75		
20MHz QPSK	RB1#0	22.41	22.48	22.4	24.71	30
	RB1#50	22.89	22.91	22.79		
	RB1#99	22.47	22.48	22.37		
	RB50#0	21.66	21.67	21.72		
	RB50#50	21.74	21.69	21.62		
	RB100#0	21.74	21.73	21.68		
20MHz 16QAM	RB1#0	21.64	21.67	21.93	24.19	30
	RB1#50	22.24	22.18	22.39		
	RB1#99	21.81	21.69	21.89		
	RB50#0	20.71	20.74	20.76		
	RB50#50	20.78	20.76	20.66		
	RB100#0	20.82	20.78	20.78		
Note: EIRP=Conducted Power(dBm) - Lc(dB) + G _T (dBi)						
					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	4.14	4.84	4.41	13
	RB100#0	4.87	5.07	4.9	13
20MHz 16QAM	RB1#0	4.99	5.74	5.13	13
	RB100#0	5.8	6	5.86	13
Result:					Pass

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	1.308	1.296	1.302
1.4MHz 16QAM	1.096	1.096	1.102	1.284	1.284	1.314
3MHz QPSK	2.695	2.683	2.671	2.88	2.88	2.856
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.892
5MHz QPSK	4.491	4.531	4.511	4.92	4.92	5.06
5MHz 16QAM	4.511	4.491	4.531	4.96	4.92	4.96
10MHz QPSK	8.942	8.942	8.942	9.6	9.72	9.6
10MHz 16QAM	8.942	8.942	8.942	9.64	9.52	9.64
15MHz QPSK	13.473	13.473	13.533	14.82	14.7	14.76
15MHz 16QAM	13.473	13.473	13.533	16.14	14.76	14.7
20MHz QPSK	17.964	17.964	17.964	19.36	19.28	19.52
20MHz 16QAM	17.964	17.964	17.964	19.36	19.44	19.28

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

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

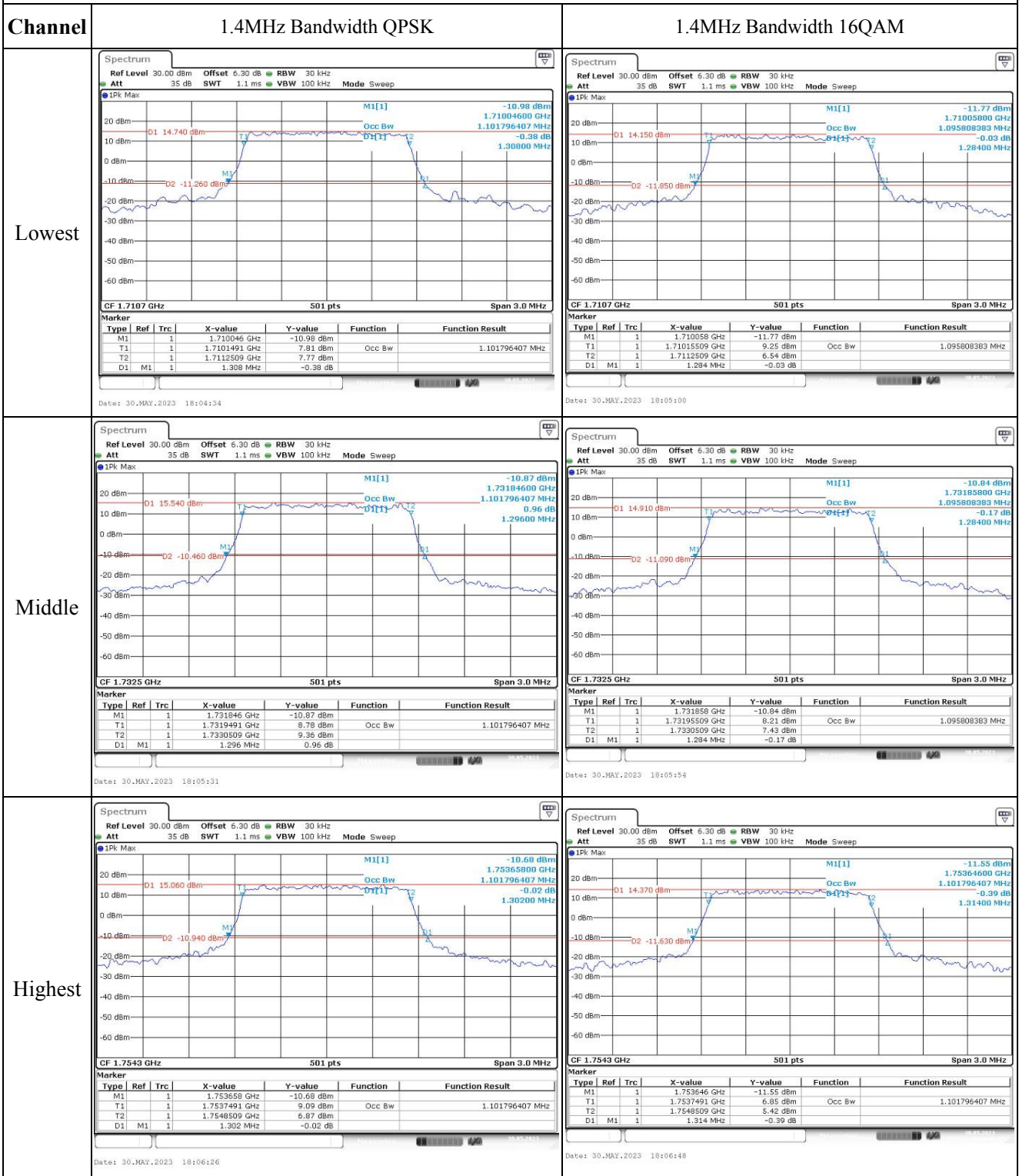
Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.87	1711.049	1710.00	1753.910	1755
	-20	3.87	1711.002	1710.00	1753.947	1755
	-10	3.87	1711.026	1710.00	1753.905	1755
	0	3.87	1711.037	1710.00	1753.963	1755
	10	3.87	1711.062	1710.00	1753.984	1755
	20	3.87	1711.058	1710.00	1753.942	1755
	30	3.87	1711.002	1710.00	1753.930	1755
	40	3.87	1711.016	1710.00	1753.987	1755
	50	3.87	1711.038	1710.00	1753.973	1755
Frequency Stability vs. Voltage	20	3.47	1711.082	1710.00	1753.960	1755
	20	4.45	1711.019	1710.00	1753.961	1755
					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	3.87	1711.055	1710.00	1754.078	1755
	-20	3.87	1711.065	1710.00	1754.028	1755
	-10	3.87	1711.029	1710.00	1754.066	1755
	0	3.87	1711.076	1710.00	1754.021	1755
	10	3.87	1711.083	1710.00	1754.072	1755
	20	3.87	1711.058	1710.00	1754.070	1755
	30	3.87	1711.034	1710.00	1754.069	1755
	40	3.87	1711.099	1710.00	1754.072	1755
	50	3.87	1711.074	1710.00	1754.001	1755
Frequency Stability vs. Voltage	20	3.47	1711.042	1710.00	1754.023	1755
	20	4.45	1711.014	1710.00	1754.048	1755
					Result:	Pass

Test Plots(Note: The 6.3dB is the Insertion loss of the RF cable, Power splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM																																																																																
Lowest	<p>CF 1.7115 GHz 501 pts Span 6.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.71005 GHz</td> <td>-13.42 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.7101587 GHz</td> <td>7.12 dBm</td> <td>Occ Bw</td> <td>2.694610779 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.7128533 GHz</td> <td>8.80 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>2.88 MHz</td> <td>0.09 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 18:23:06</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			1.71005 GHz	-13.42 dBm			T1	1			1.7101587 GHz	7.12 dBm	Occ Bw	2.694610779 MHz	T2	1			1.7128533 GHz	8.80 dBm			D1	M1	1		2.88 MHz	0.09 dB			<p>CF 1.7115 GHz 501 pts Span 6.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.71006 GHz</td> <td>-14.60 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.7101587 GHz</td> <td>7.80 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.7128413 GHz</td> <td>7.56 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>2.88 MHz</td> <td>-0.13 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 18:23:33</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			1.71006 GHz	-14.60 dBm			T1	1			1.7101587 GHz	7.80 dBm	Occ Bw	2.682634731 MHz	T2	1			1.7128413 GHz	7.56 dBm			D1	M1	1		2.88 MHz	-0.13 dB		
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Middle	<p>CF 1.7325 GHz 501 pts Span 6.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.73106 GHz</td> <td>-13.36 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.7311587 GHz</td> <td>8.69 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.7338413 GHz</td> <td>9.94 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>2.88 MHz</td> <td>-0.25 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 18:24:00</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			1.73106 GHz	-13.36 dBm			T1	1			1.7311587 GHz	8.69 dBm	Occ Bw	2.682634731 MHz	T2	1			1.7338413 GHz	9.94 dBm			D1	M1	1		2.88 MHz	-0.25 dB			<p>CF 1.7325 GHz 501 pts Span 6.0 MHz</p> <table border="1"> <thead> <tr> <th>Marker</th> <th>Type</th> <th>Ref</th> <th>Trc</th> <th>X-value</th> <th>Y-value</th> <th>Function</th> <th>Function Result</th> </tr> </thead> <tbody> <tr> <td>M1</td> <td>1</td> <td></td> <td></td> <td>1.73106 GHz</td> <td>-14.24 dBm</td> <td></td> <td></td> </tr> <tr> <td>T1</td> <td>1</td> <td></td> <td></td> <td>1.7311587 GHz</td> <td>6.94 dBm</td> <td>Occ Bw</td> <td>2.682634731 MHz</td> </tr> <tr> <td>T2</td> <td>1</td> <td></td> <td></td> <td>1.7338413 GHz</td> <td>7.16 dBm</td> <td></td> <td></td> </tr> <tr> <td>D1</td> <td>M1</td> <td>1</td> <td></td> <td>2.88 MHz</td> <td>-0.33 dB</td> <td></td> <td></td> </tr> </tbody> </table> <p>Date: 30.MAY.2023 18:24:34</p>	Marker	Type	Ref	Trc	X-value	Y-value	Function	Function Result	M1	1			1.73106 GHz	-14.24 dBm			T1	1			1.7311587 GHz	6.94 dBm	Occ Bw	2.682634731 MHz	T2	1			1.7338413 GHz	7.16 dBm			D1	M1	1		2.88 MHz	-0.33 dB		
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