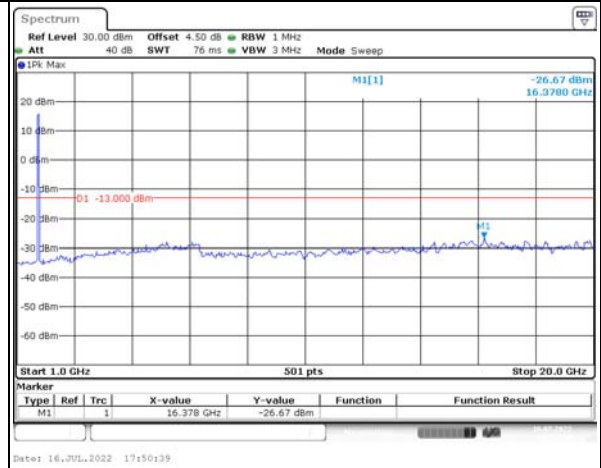
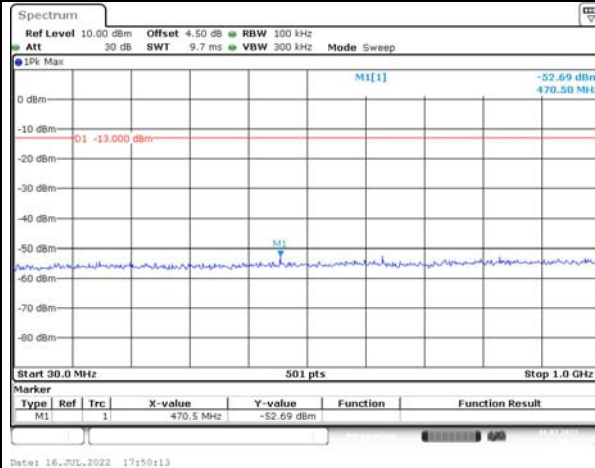


Spurious Emissions at Antenna Terminal

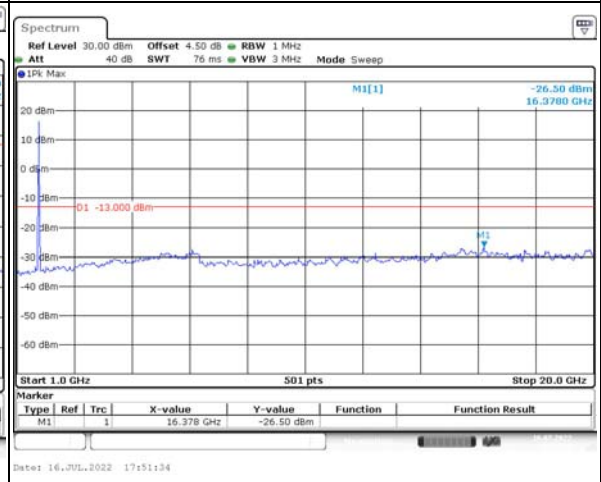
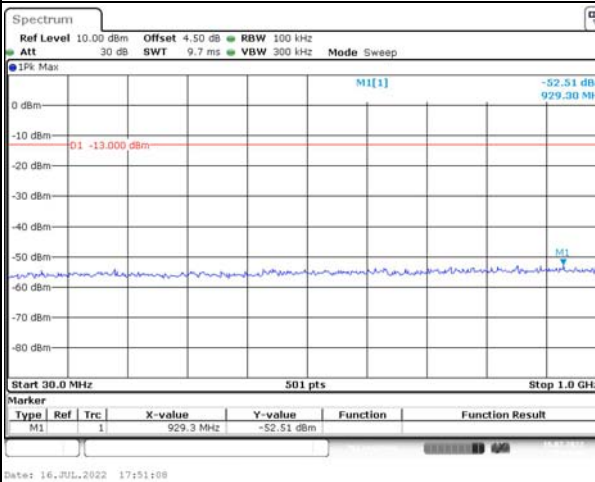
Channel

20MHz Bandwidth QPSK

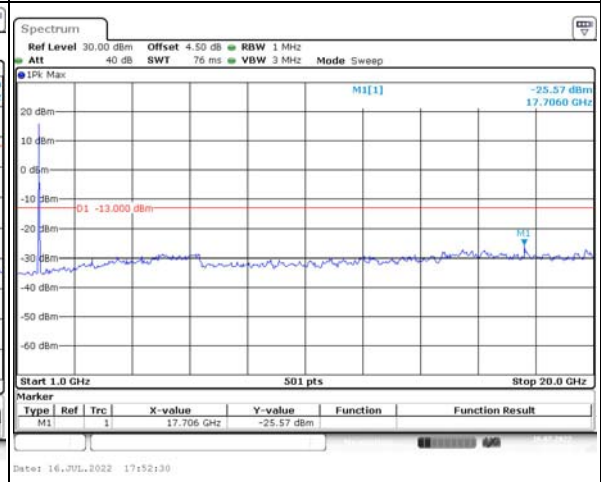
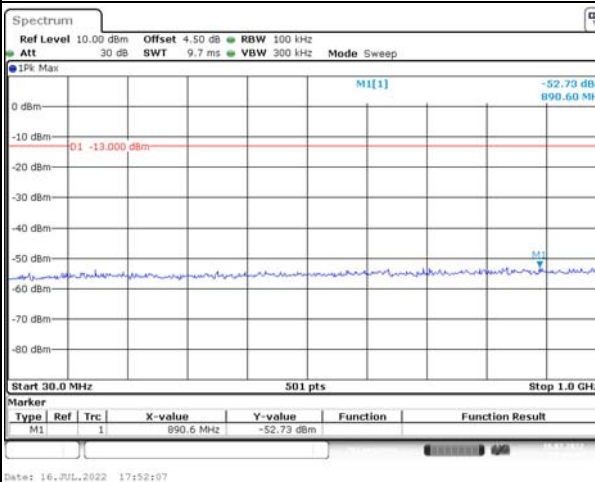
Lowest



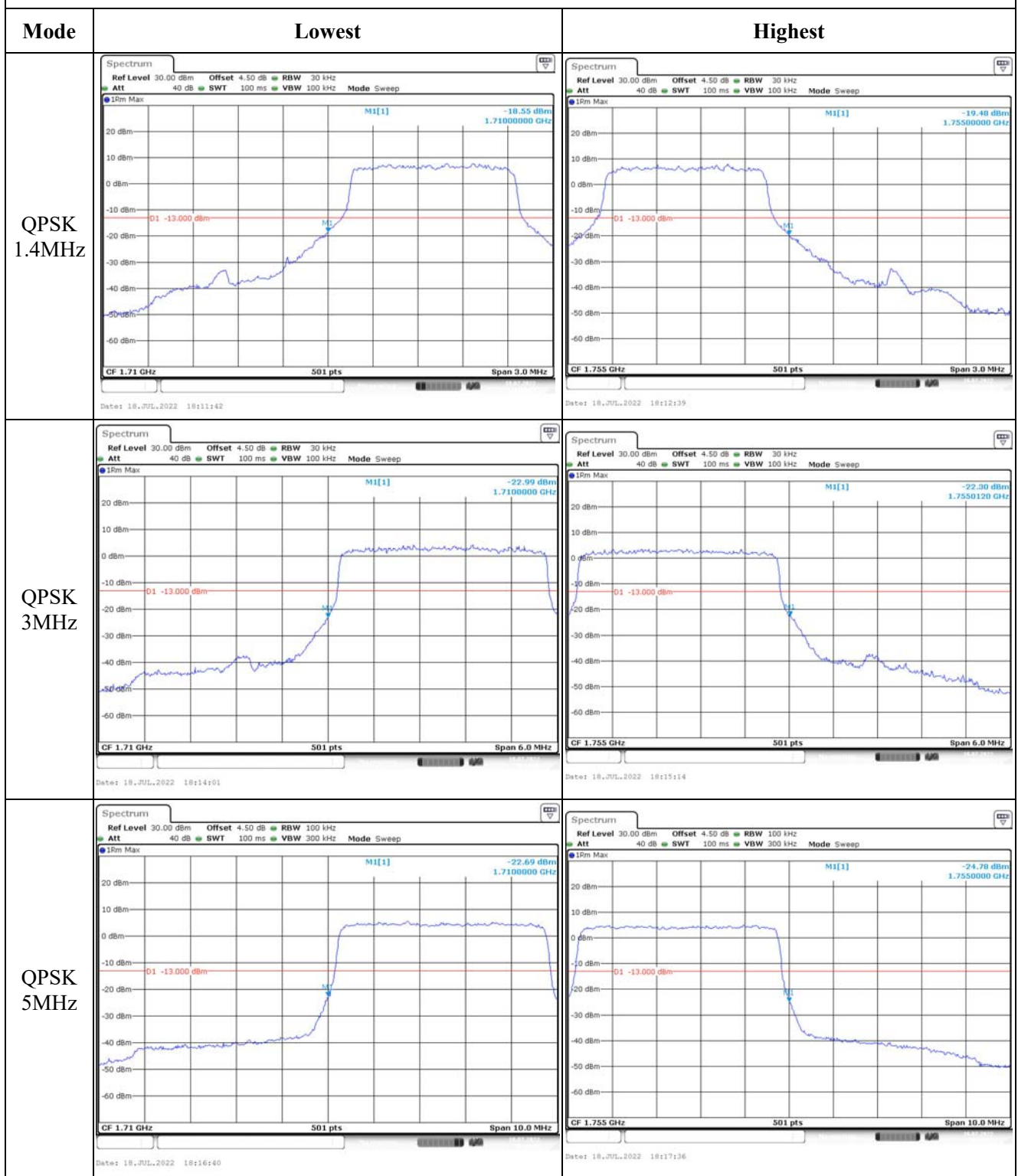
Middle



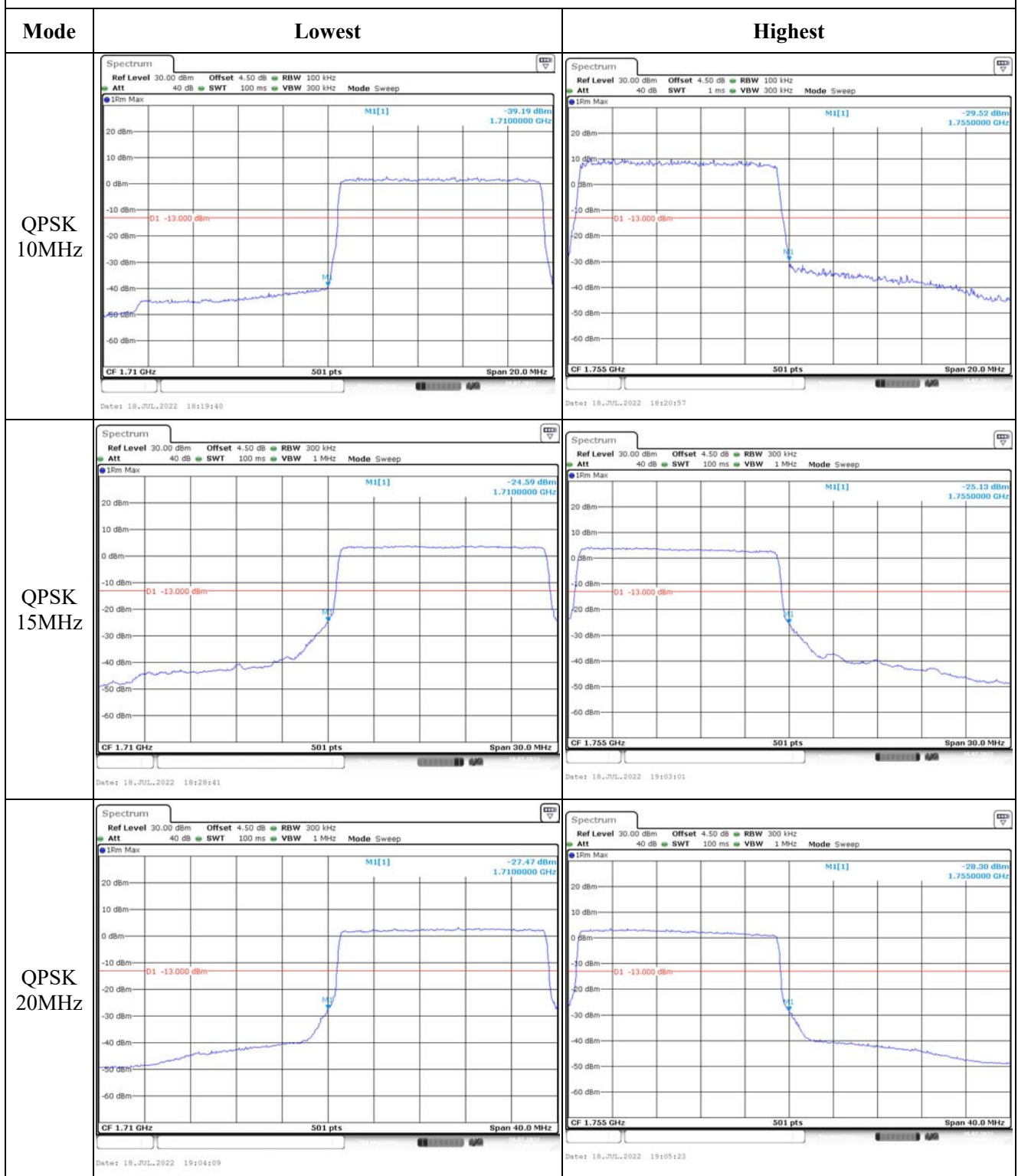
Highest



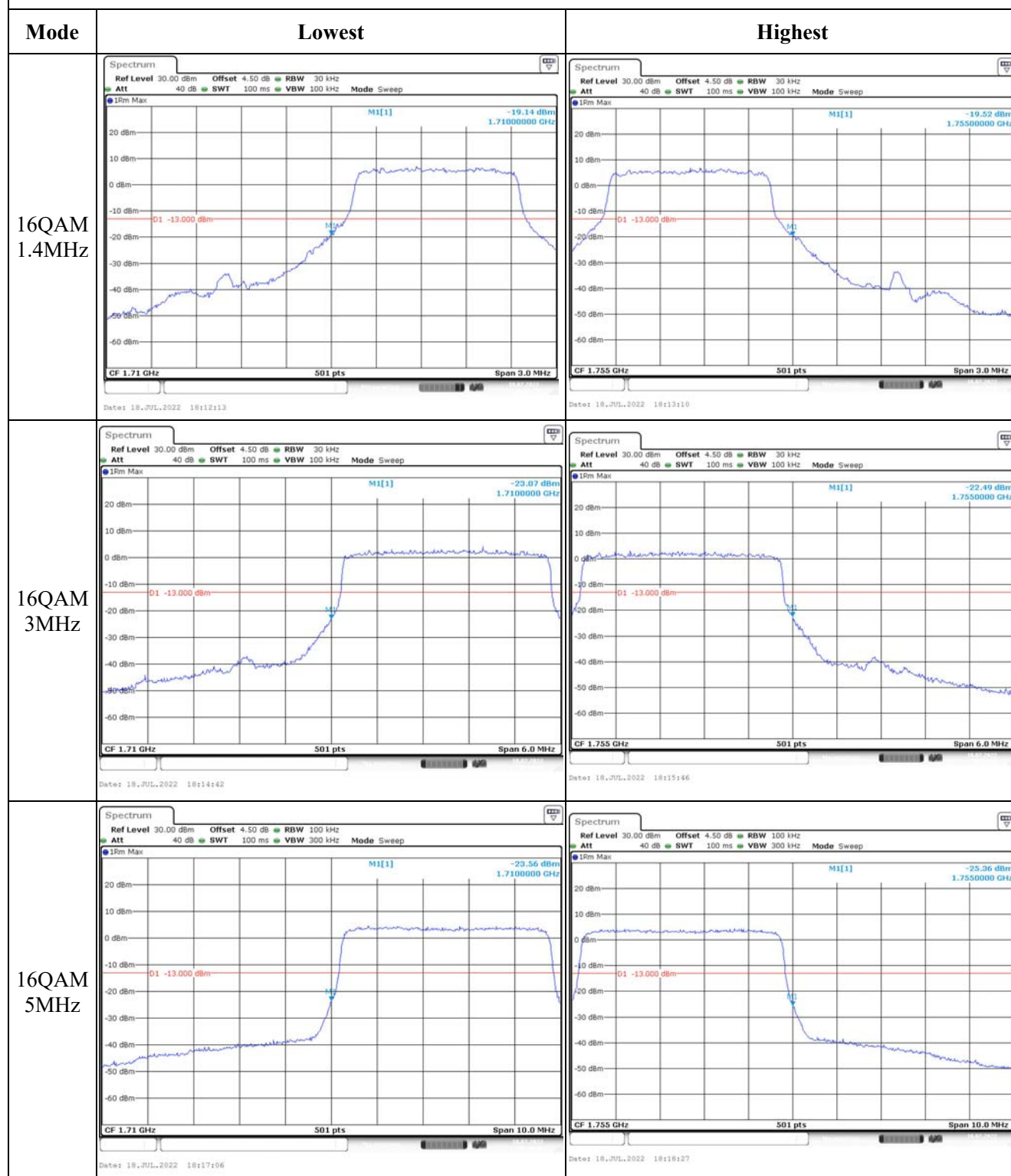
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.5 Antenna Port Test Data and Results for LTE Band 5

Serial Number:	CR22060009-RF-S1	Test Date:	2022/07/15-2022/07-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24~27.5	Relative Humidity: (%)	39~56	ATM Pressure: (kPa)	100.1~100.3
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2023-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	1982/8/11	2022-04-06	2023-04-05

* 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 5▲:

Antenna Gain G_T (dBi):	-0.1	Antenna Gain G_T (dBd):	-2.25	Path Loss L_C (dB):	0.3
Operation Voltage(V_{DC}):					
Lowest:	3.5	Normal:	3.7	Highest:	4.2

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	23.87	23.59	21.59	21.32	38.45
	RB1#3	23.09	23.69	22.13		
	RB1#5	22.54	23.01	22.86		
	RB3#0	23.87	23.67	21.99		
	RB3#3	22.94	23.36	21.84		
	RB6#0	21.98	22.47	20.98		
1.4MHz 16QAM	RB1#0	22.96	22.54	20.65	20.56	38.45
	RB1#3	22.23	22.69	21.27		
	RB1#5	21.61	22.07	22.05		
	RB3#0	23.11	22.83	21.19		
	RB3#3	22	22.51	20.99		
	RB6#0	21.01	21.42	20.08		
3MHz QPSK	RB1#0	23.79	23.29	21.58	21.35	38.45
	RB1#8	23.4	23.9	22.48		
	RB1#14	21.8	22.51	22.86		
	RB6#0	22.79	22.71	21.29		
	RB6#9	21.91	22.43	22.11		
	RB15#0	22.01	22.47	21.2		
3MHz 16QAM	RB1#0	22.85	22.21	21.1	20.31	38.45
	RB1#8	22.65	22.86	21.96		
	RB1#14	21.06	21.47	22.27		
	RB6#0	21.84	21.75	20.46		
	RB6#9	21.05	21.47	21.26		
	RB15#0	21.14	21.58	20.34		
5MHz QPSK	RB1#0	23.99	23.46	22.31	21.44	38.45
	RB1#13	22.65	23.33	22.28		
	RB1#24	21.49	22.58	22.8		
	RB15#0	22.25	22.34	21.56		
	RB15#10	21.76	22.5	22.05		
	RB25#0	21.91	22.52	21.59		
5MHz 16QAM	RB1#0	23.19	22.62	21.5	20.64	38.45
	RB1#13	21.97	22.53	21.5		
	RB1#24	20.82	21.81	21.89		
	RB15#0	21.41	21.47	20.66		
	RB15#10	20.95	21.66	21.07		
	RB25#0	21.11	21.51	20.63		

10MHz QPSK	RB1#0	24.25	23.63	22.94	21.70	38.45
	RB1#25	23.17	23.59	23.07		
	RB1#49	21.76	22.53	22.83		
	RB25#0	22.74	22.75	22.1		
	RB25#25	22.01	22.67	22.37		
	RB50#0	22.4	22.63	21.96		
Note: ERP=Conducted Power(dBm) - L _C (dB) + G _T (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	
10MHz QPSK	RB1#0	3.97	4.17	4.61	13
	RB50#0	4.99	4.61	4.87	13
5MHz 16QAM	RB1#0	4.75	5.25	5.33	13
	RB25#0	4.93	4.34	4.21	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	1.452	1.102	1.506	1.102	1.476
1.4MHz 16QAM	1.102	1.464	1.108	1.482	1.114	1.482
3MHz QPSK	2.671	3.048	2.683	3.096	2.683	3.036
3MHz 16QAM	2.671	3.108	2.671	3.096	2.683	3.072
5MHz QPSK	4.491	5.12	4.471	5.12	4.491	5.08
5MHz 16QAM	4.471	5.08	4.511	5.14	4.491	5.1
10MHz QPSK	8.942	9.6	8.942	9.6	8.901	9.56
Note: The test plots please refer to the Plots of Occupied Bandwidth						

FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

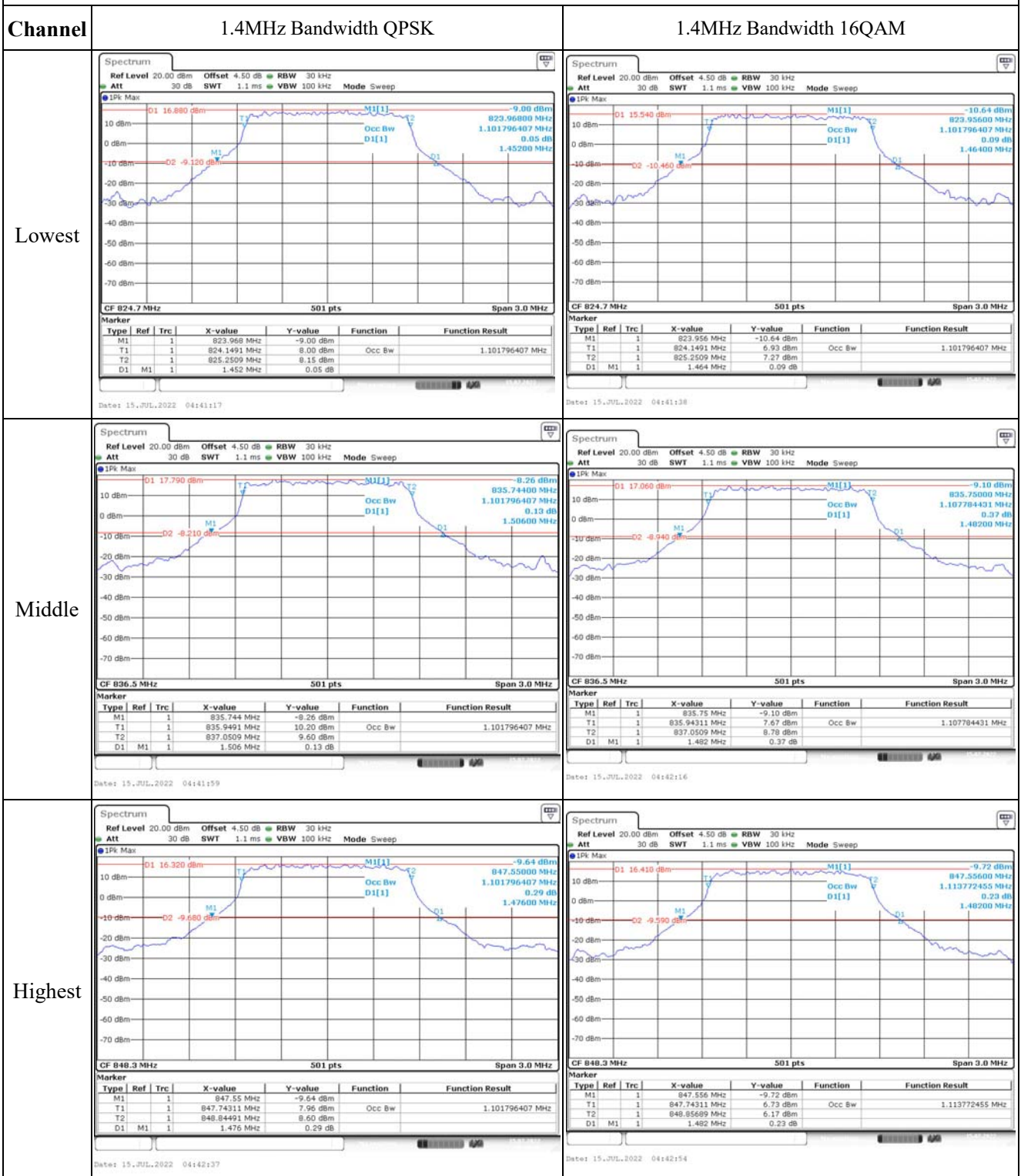
FCC §2.1051, §22.917(a):Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §22.355: Frequency Stability					
Test Mode:	10 MHz QPSK		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.7	-5.72	-0.007	2.5
	-20	3.7	-8.14	-0.010	2.5
	-10	3.7	-6.44	-0.008	2.5
	0	3.7	9.74	0.012	2.5
	10	3.7	5.62	0.007	2.5
	20	3.7	-7.92	-0.009	2.5
	30	3.7	6.55	0.008	2.5
	40	3.7	5.29	0.006	2.5
	50	3.7	-7.29	-0.009	2.5
Frequency Stability vs. Voltage	20	3.5	9.34	0.011	2.5
	20	4.2	9.24	0.011	2.5
				Result:	Pass

Test Mode:	5 MHz 16QAM		Test Channel:	836.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.7	4.86	0.006	2.5
	-20	3.7	-5.12	-0.006	2.5
	-10	3.7	8.88	0.011	2.5
	0	3.7	-8.05	-0.010	2.5
	10	3.7	-8.35	-0.010	2.5
	20	3.7	-8.47	-0.010	2.5
	30	3.7	-6.52	-0.008	2.5
	40	3.7	5.53	0.007	2.5
	50	3.7	-6.15	-0.007	2.5
Frequency Stability vs. Voltage	20	3.5	-7.45	-0.009	2.5
	20	4.2	8.6	0.010	2.5
				Result:	Pass

Test Plots:

Occupied Bandwidth



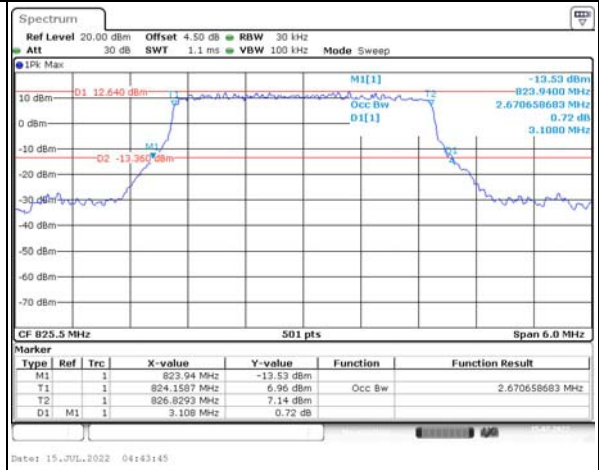
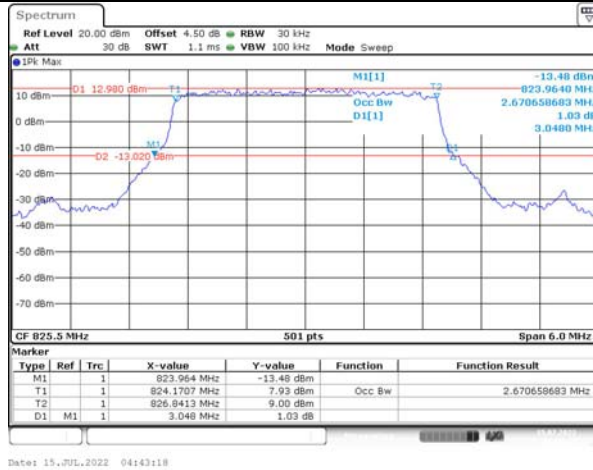
Occupied Bandwidth

Channel

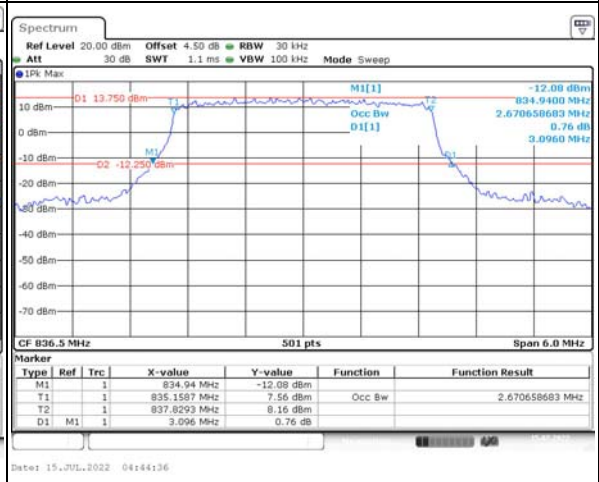
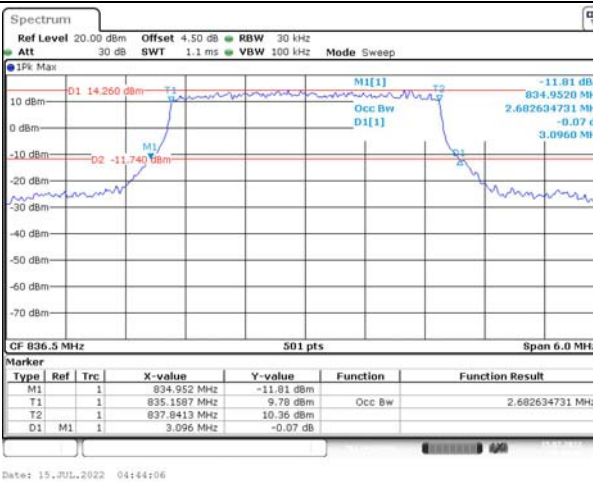
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

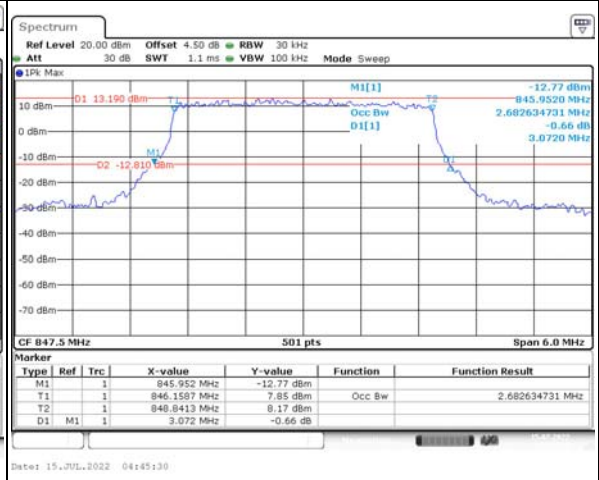
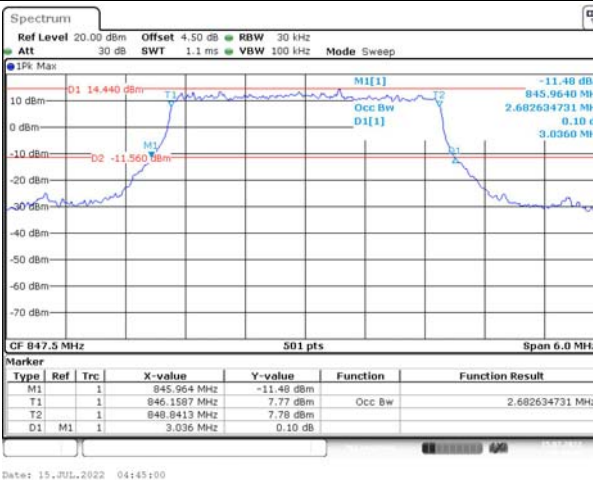
Lowest



Middle



Highest



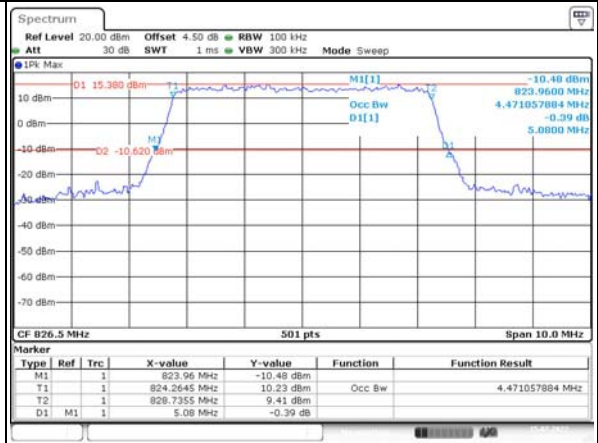
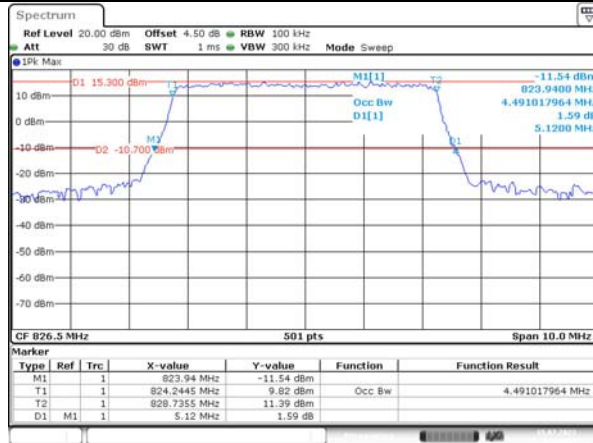
Occupied Bandwidth

Channel

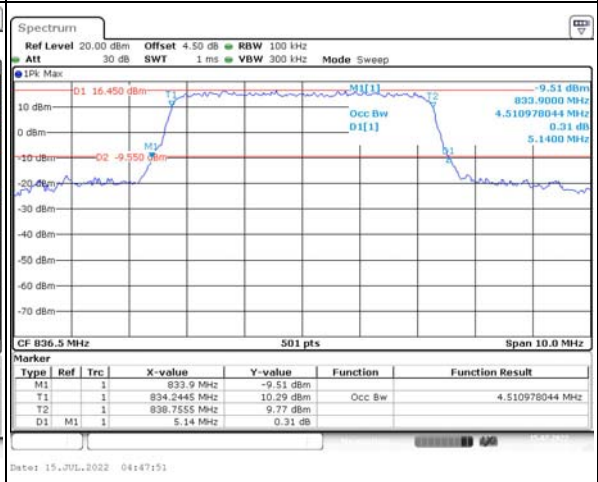
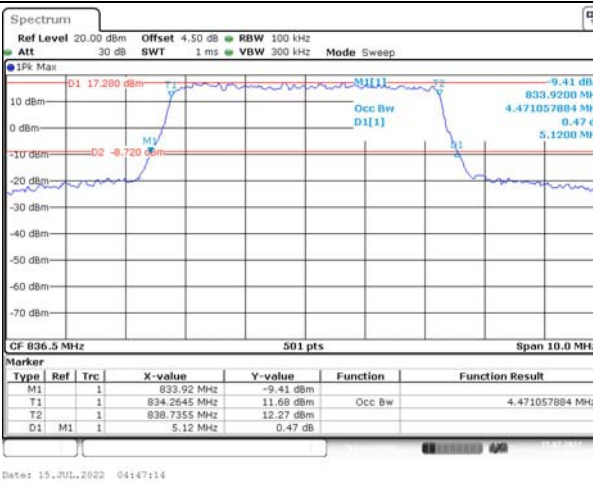
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

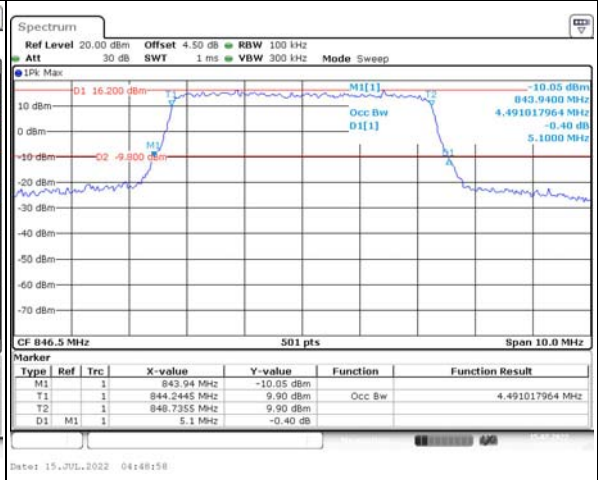
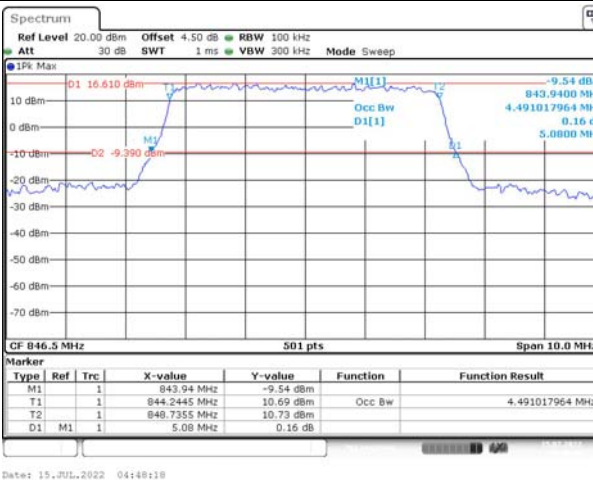
Lowest



Middle



Highest

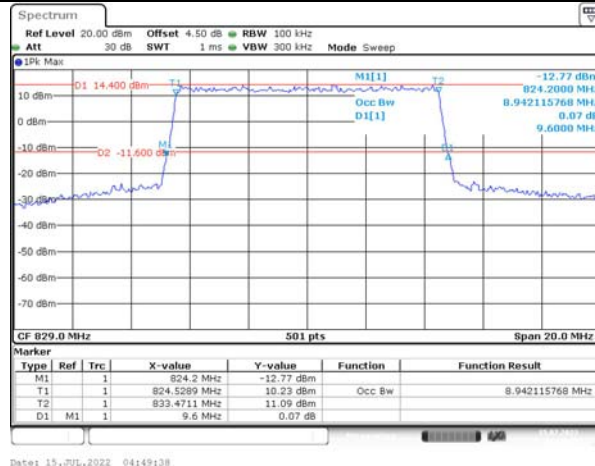


Occupied Bandwidth

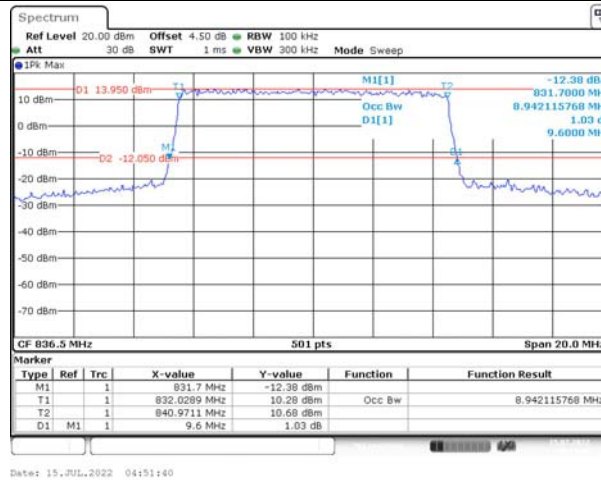
Channel

10MHz Bandwidth QPSK

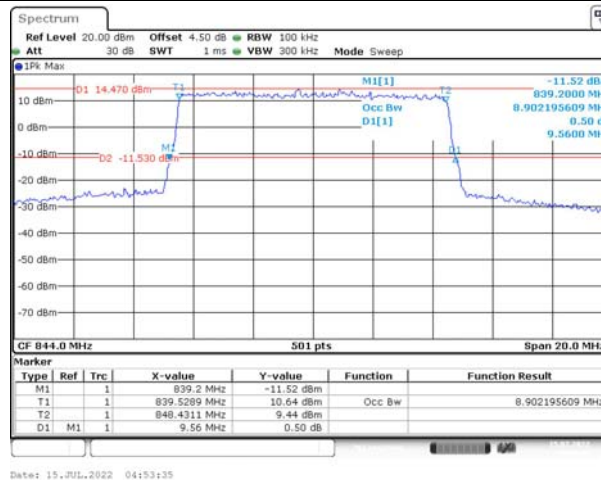
Lowest



Middle



Highest

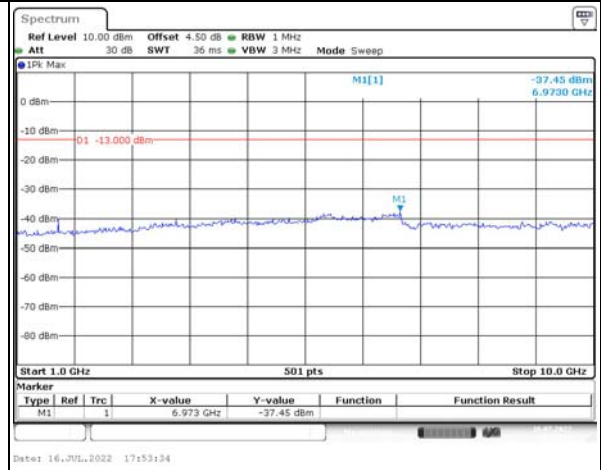
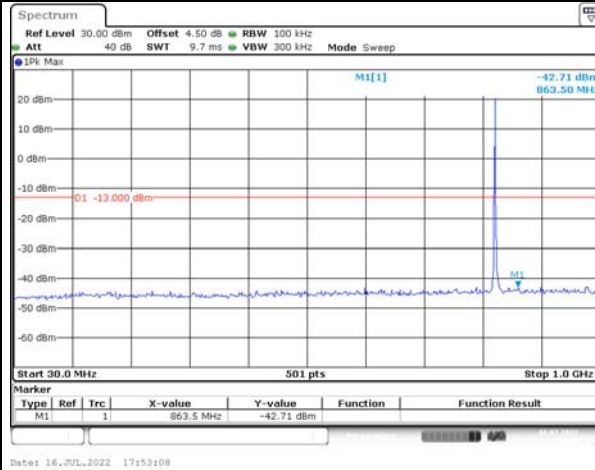


Spurious Emissions at Antenna Terminal

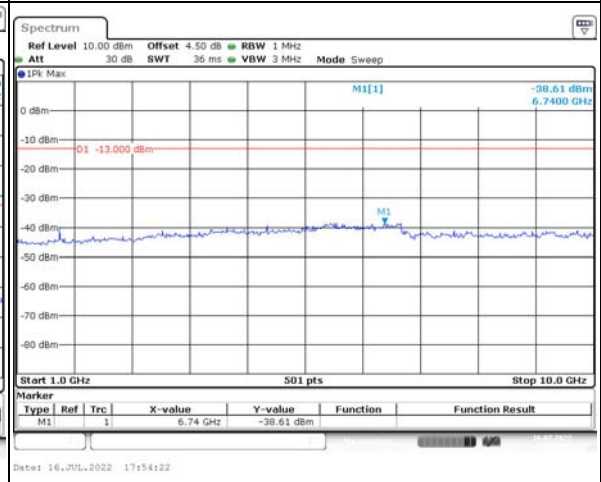
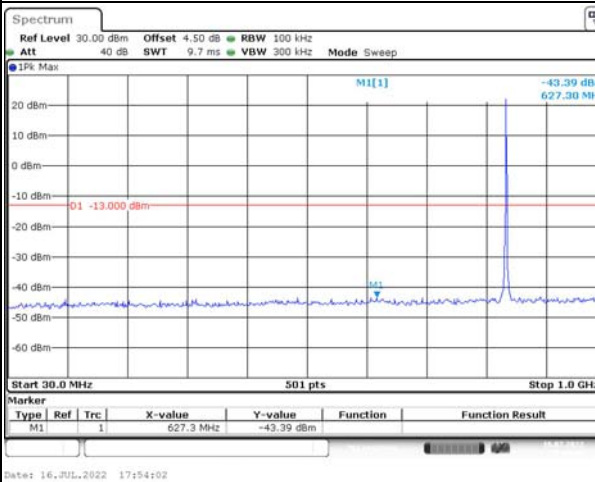
Channel

1.4MHz Bandwidth QPSK

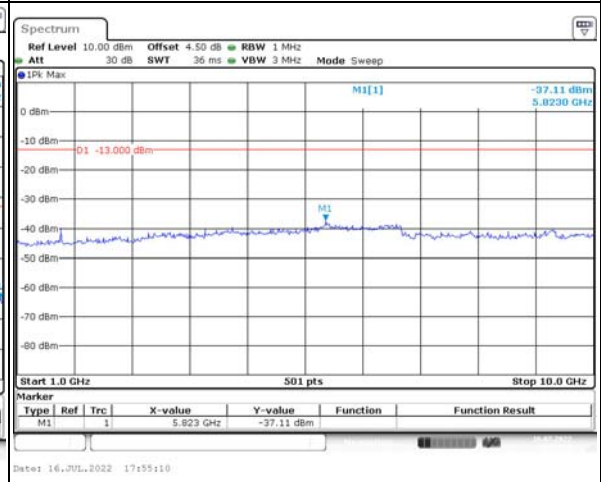
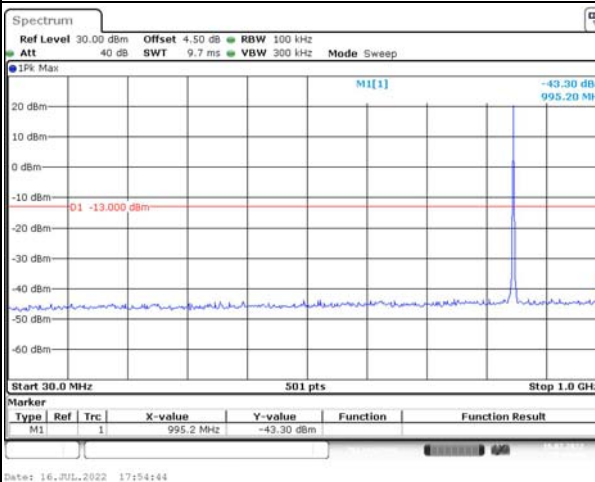
Lowest



Middle



Highest

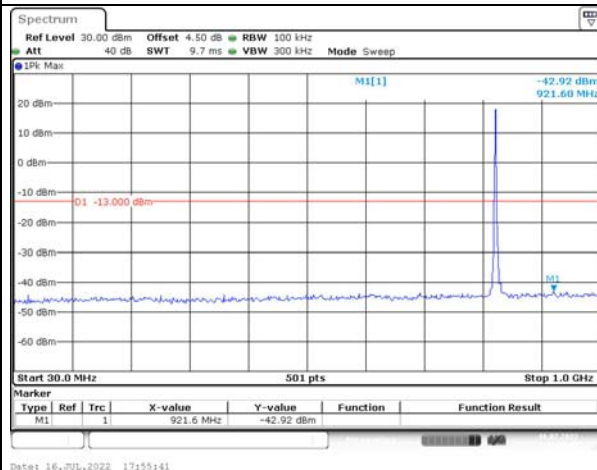


Spurious Emissions at Antenna Terminal

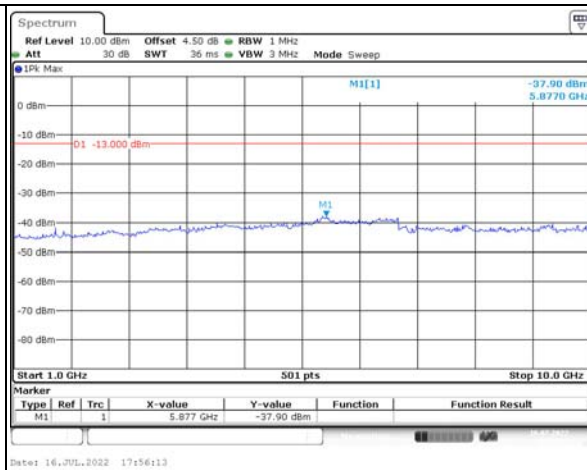
Channel

3MHz Bandwidth QPSK

Lowest

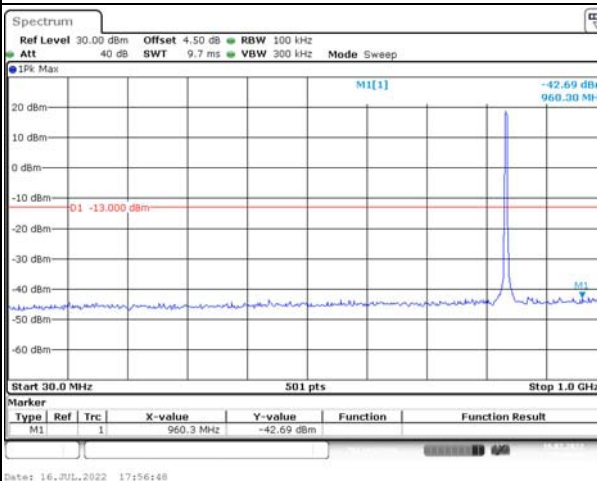


Date: 16.JUL.2022 17:55:41

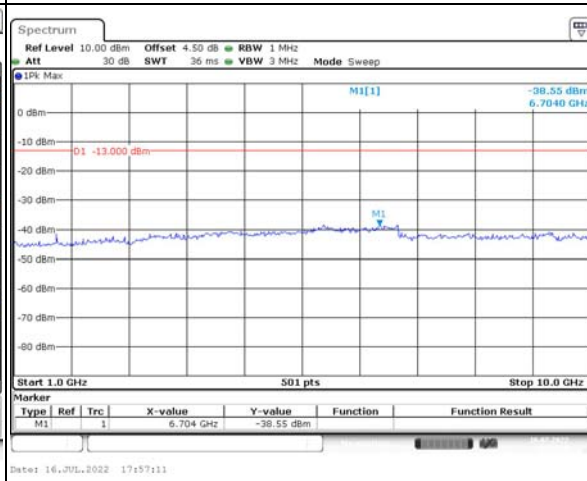


Date: 16.JUL.2022 17:56:13

Middle

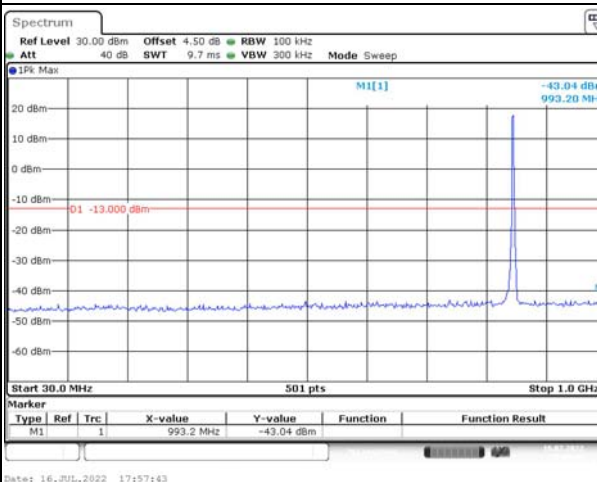


Date: 16.JUL.2022 17:56:48

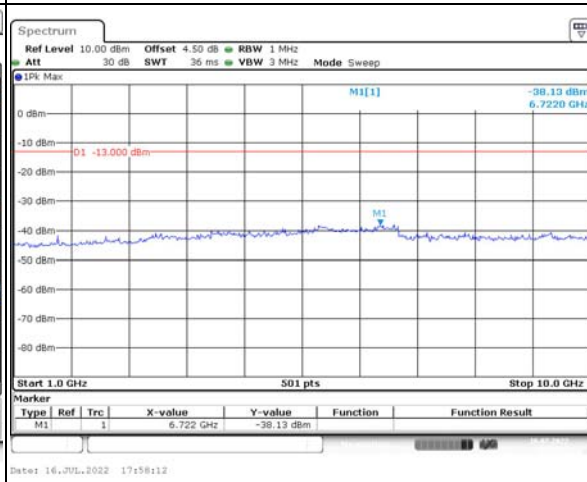


Date: 16.JUL.2022 17:57:11

Highest



Date: 16.JUL.2022 17:57:43



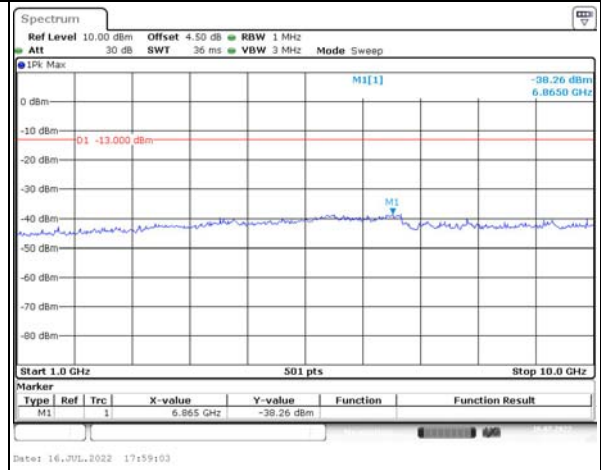
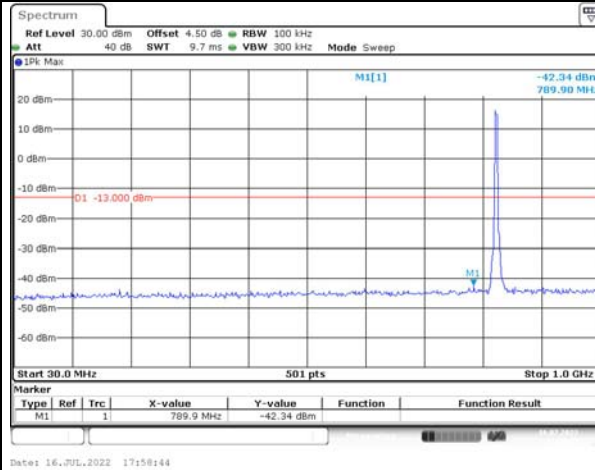
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Spurious Emissions at Antenna Terminal

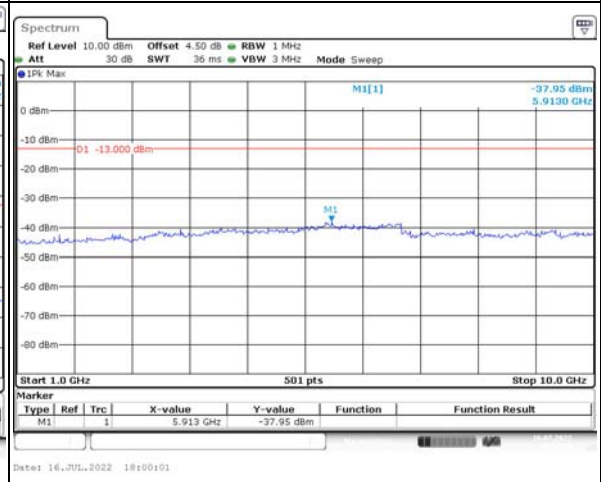
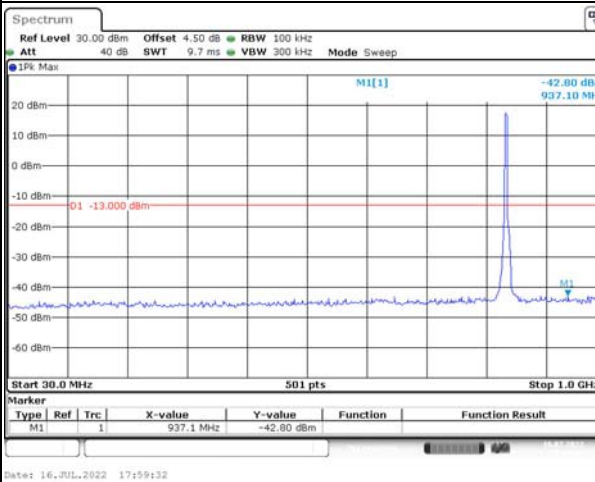
Channel

5MHz Bandwidth QPSK

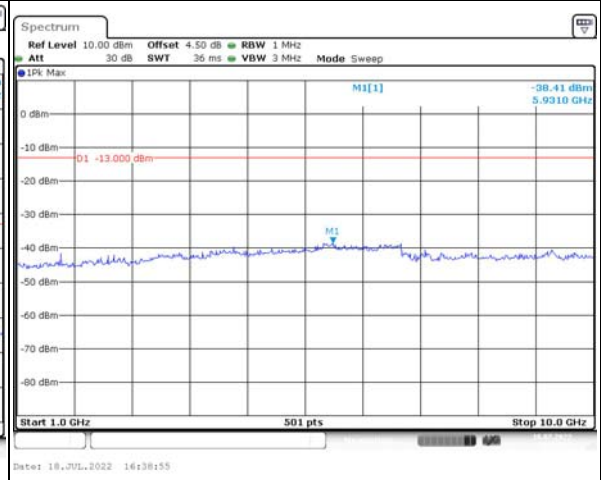
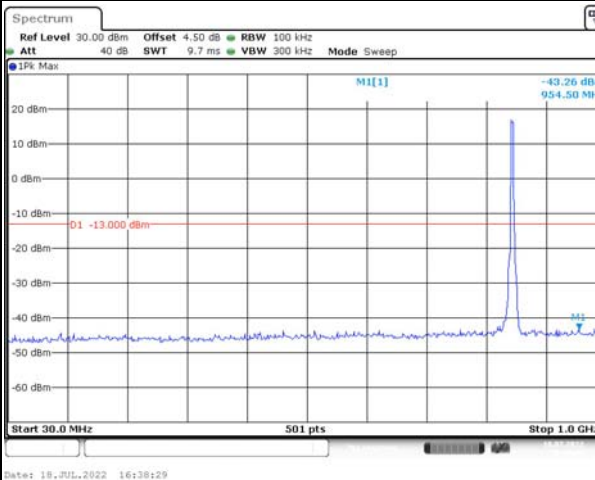
Lowest



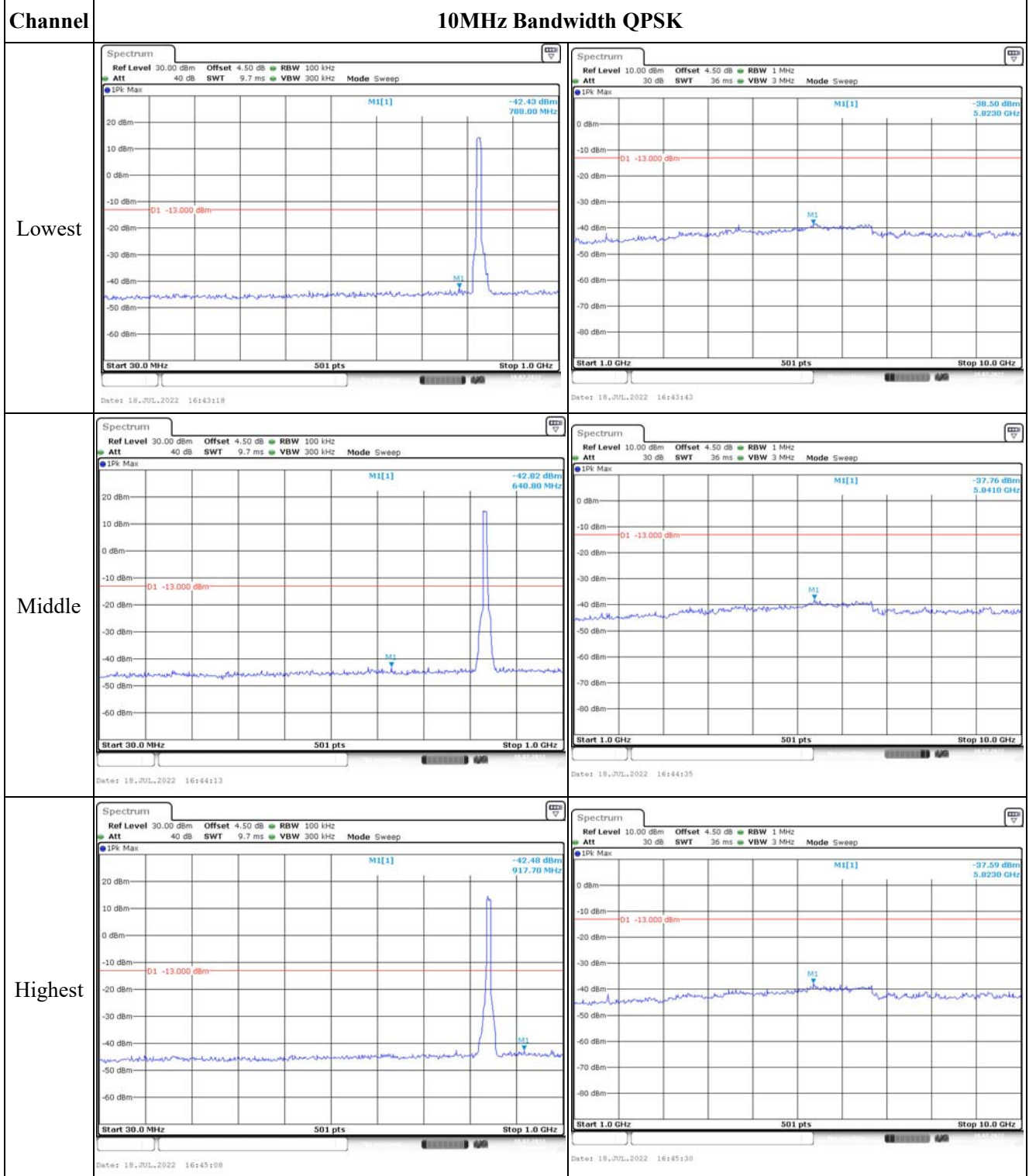
Middle



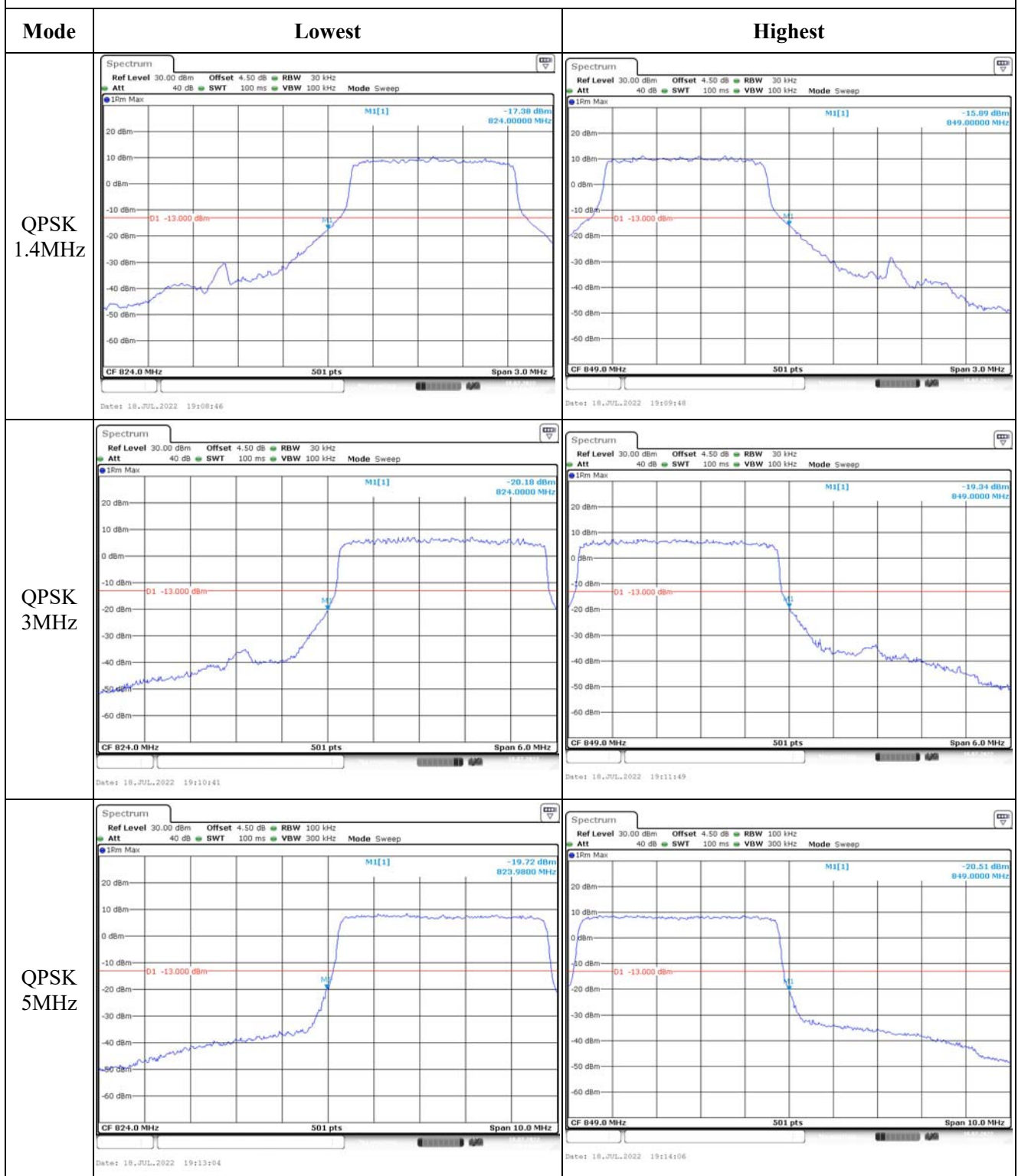
Highest



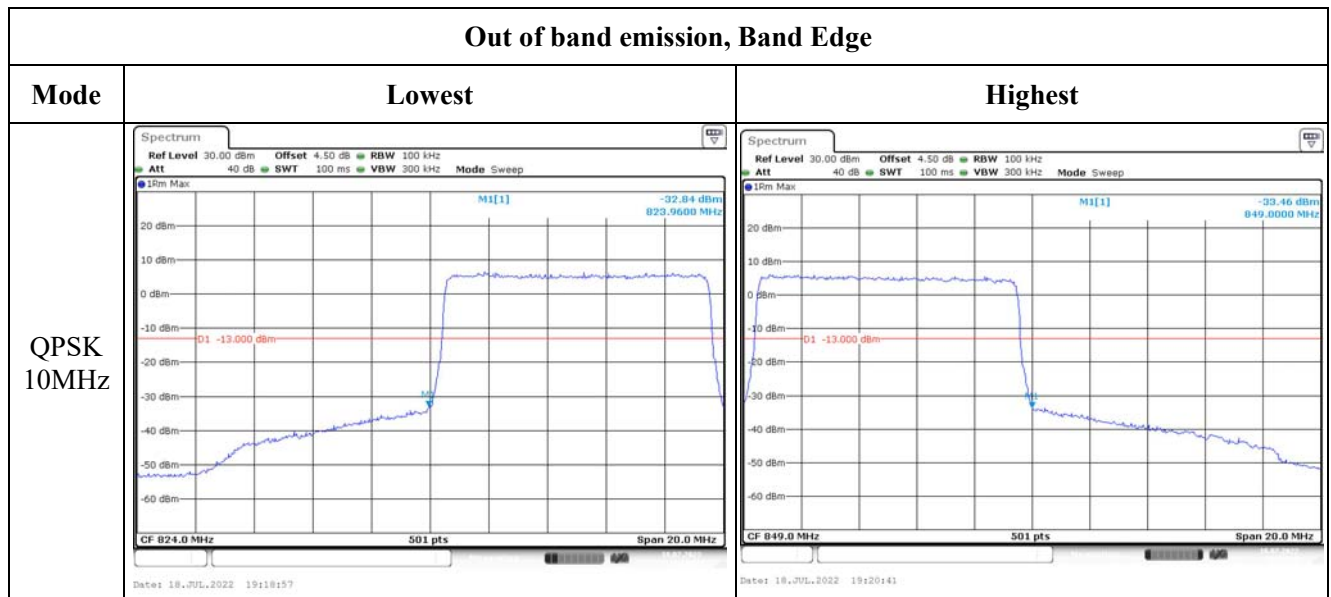
Spurious Emissions at Antenna Terminal



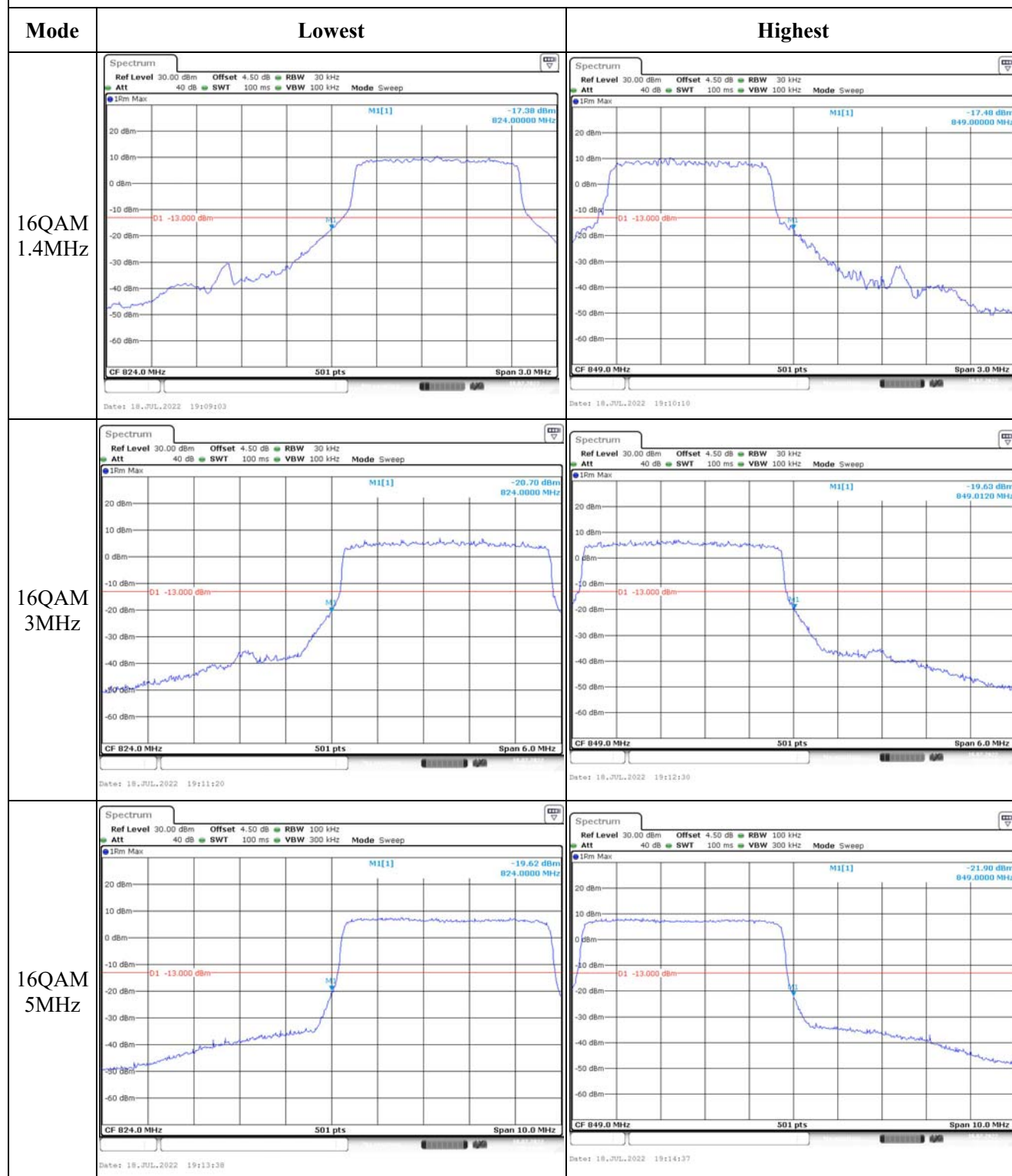
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



4.6 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	CR22060009-RF-S1	Test Date:	2022-07-15-2022-07-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24~27.5	Relative Humidity: (%)	39~56	ATM Pressure: (kPa)	100.1~100.3
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2023-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	1982/8/11	2022-04-06	2023-04-05

* 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 G_T (dBi):	0.76	Path Loss L_C (dB):	0.5
Operation Voltage(V_{DC}):			
Lowest:	3.5	Normal:	3.7
		Highest:	4.2

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	21.71	22.19	21.38	22.46	33
	RB1#13	21.93	22.14	21.51		
	RB1#24	22.04	22.2	21.72		
	RB15#0	21.07	21.23	20.45		
	RB15#10	21.15	21.2	20.63		
	RB25#0	21.13	21.25	20.75		
5MHz 16QAM	RB1#0	20.79	21.3	20.61	21.83	33
	RB1#13	20.89	21.32	20.72		
	RB1#24	20.88	21.57	20.94		
	RB15#0	20.15	20.32	19.6		
	RB15#10	20.19	20.2	19.81		
	RB25#0	20.09	20.29	19.88		
10MHz QPSK	RB1#0	21.75	21.73	21.39	22.57	33
	RB1#25	22.03	22.3	21.81		
	RB1#49	21.69	22.31	22.13		
	RB25#0	21.15	20.97	20.7		
	RB25#25	20.87	21.15	20.84		
	RB50#0	21.05	21.28	20.89		
15MHz QPSK	RB1#0	21.77	21.54	21.74	22.61	33
	RB1#38	21.8	22.07	21.74		
	RB1#74	21.49	21.98	22.35		
	RB36#0	21.17	20.95	21.07		
	RB36#39	20.77	21.04	20.87		
	RB75#0	21	21.28	21.06		
20MHz QPSK	RB1#0	21.75	21.92	21.91	22.94	33
	RB1#50	21.81	22.47	22.05		
	RB1#99	21.5	22	22.68		
	RB50#0	21.15	21.11	21.53		
	RB50#50	20.55	20.9	20.8		
	RB100#0	20.94	21.29	21.02		
Note: EIRP=Conducted Power(dBm) - L _C (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	3.97	4.52	4.72	13
	RB100#0	4.58	4.67	4.93	13
5MHz 16QAM	RB1#0	4.52	5.22	5.77	13
	RB25#0	4.51	4.23	4.43	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	4.491	5.12	4.471	5.1	4.491	5.1
5MHz 16QAM	4.511	5.12	4.491	5.08	4.491	5.1
10MHz QPSK	8.901	9.52	8.862	9.52	8.901	9.64
15MHz QPSK	13.593	16.26	13.533	16.68	13.533	16.56
20MHz QPSK	18.044	20.88	17.964	20.88	18.044	20.88
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.

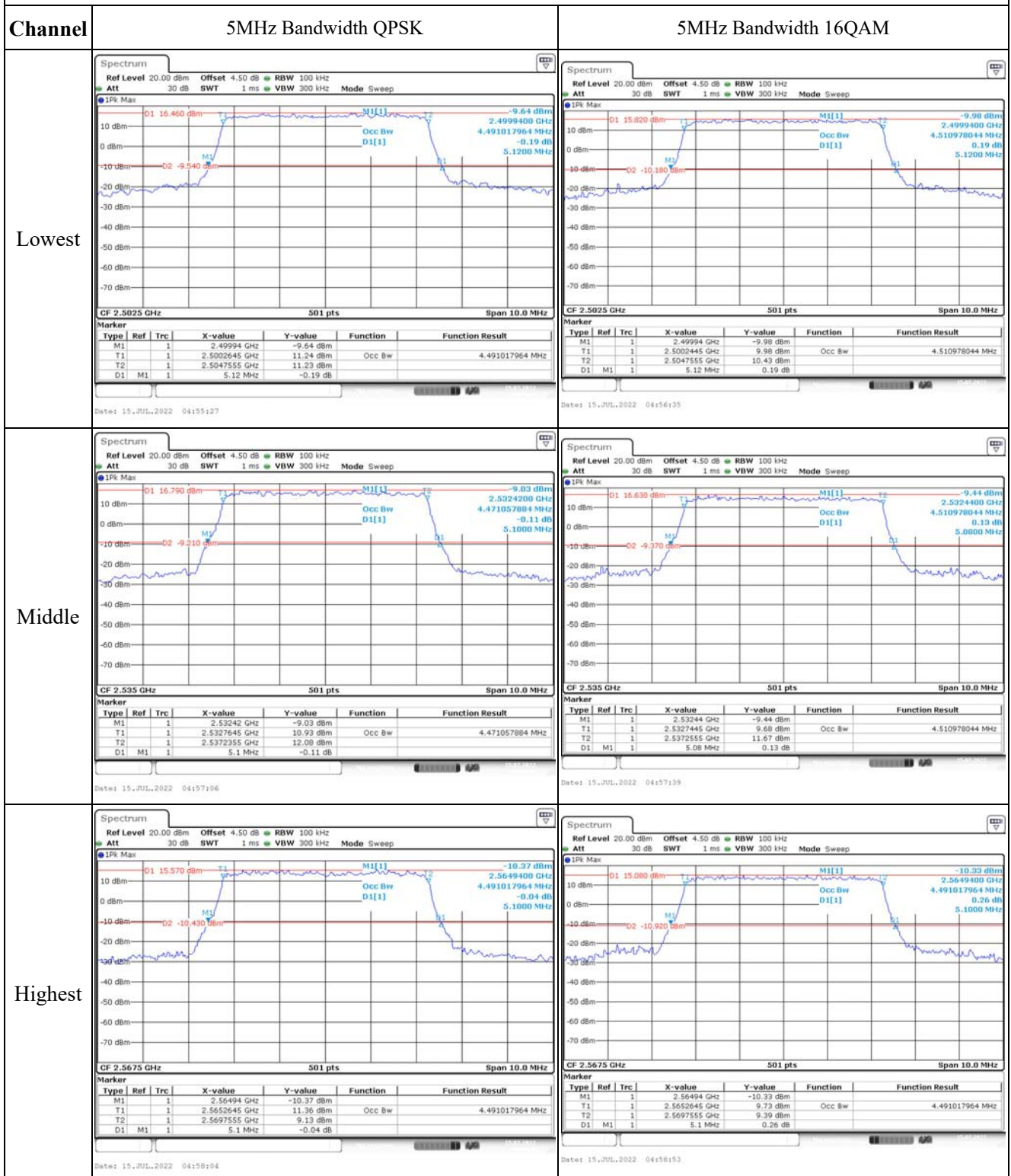
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.7	2500.293	2500.00	2569.618	2570
	-20	3.7	2500.227	2500.00	2569.609	2570
	-10	3.7	2500.253	2500.00	2569.685	2570
	0	3.7	2500.213	2500.00	2569.669	2570
	10	3.7	2500.278	2500.00	2569.639	2570
	20	3.7	2500.263	2500.00	2569.622	2570
	30	3.7	2500.227	2500.00	2569.601	2570
	40	3.7	2500.250	2500.00	2569.677	2570
	50	3.7	2500.244	2500.00	2569.673	2570
Frequency Stability vs. Voltage	20	3.5	2500.242	2500.00	2569.651	2570
	20	4.2	2500.270	2500.00	2569.624	2570
					Result:	Pass

Test Mode:	5M 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	3.7	2500.270	2500.00	2569.623	2570
	-20	3.7	2500.253	2500.00	2569.644	2570
	-10	3.7	2500.227	2500.00	2569.612	2570
	0	3.7	2500.213	2500.00	2569.622	2570
	10	3.7	2500.293	2500.00	2569.642	2570
	20	3.7	2500.278	2500.00	2569.621	2570
	30	3.7	2500.263	2500.00	2569.623	2570
	40	3.7	2500.250	2500.00	2569.624	2570
	50	3.7	2500.244	2500.00	2569.611	2570
Frequency Stability vs. Voltage	20	3.5	2500.242	2500.00	2569.623	2570
	20	4.2	2500.227	2500.00	2569.645	2570
					Result:	Pass

Test Plots:

Occupied Bandwidth

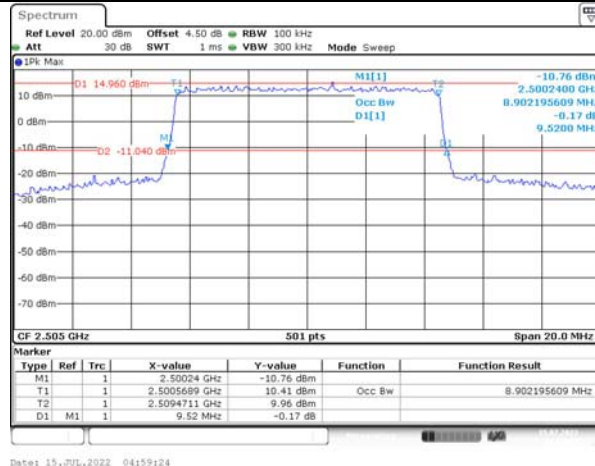


Occupied Bandwidth

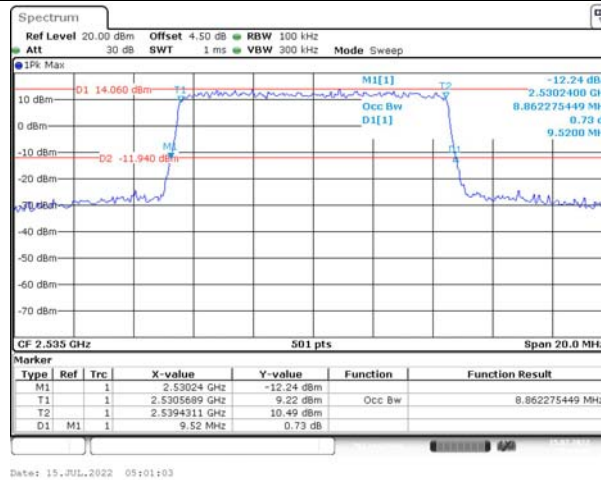
Channel

10MHz Bandwidth QPSK

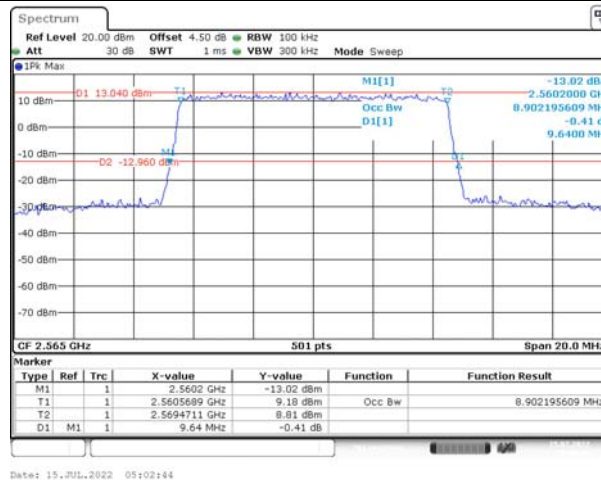
Lowest



Middle



Highest

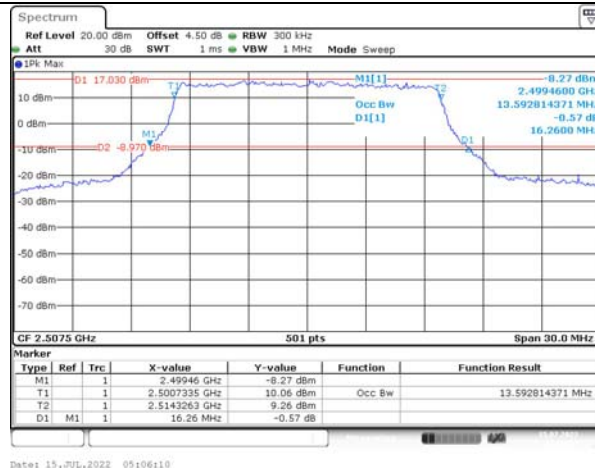


Occupied Bandwidth

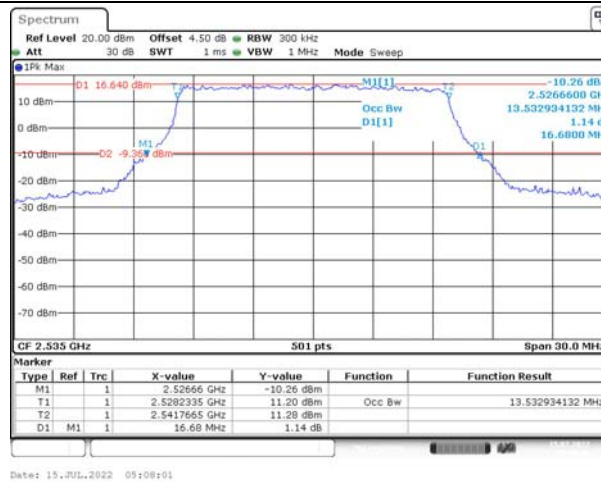
Channel

15MHz Bandwidth QPSK

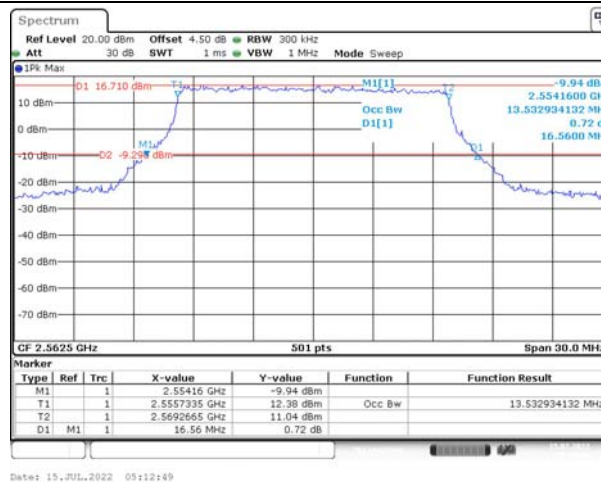
Lowest



Middle



Highest

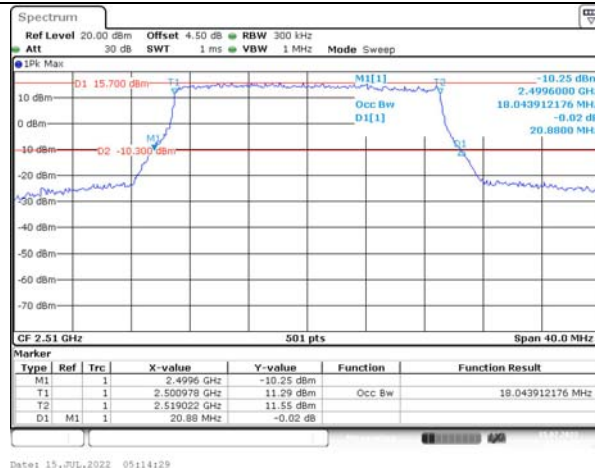


Occupied Bandwidth

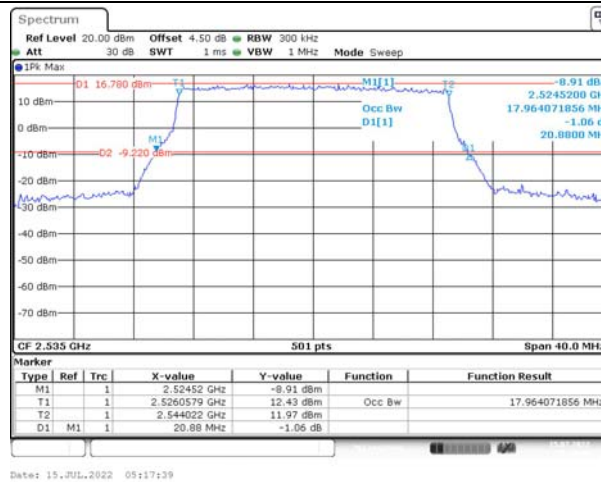
Channel

20MHz Bandwidth QPSK

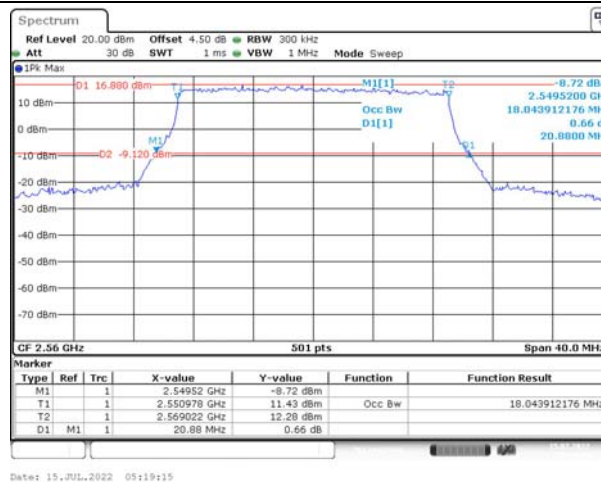
Lowest



Middle



Highest

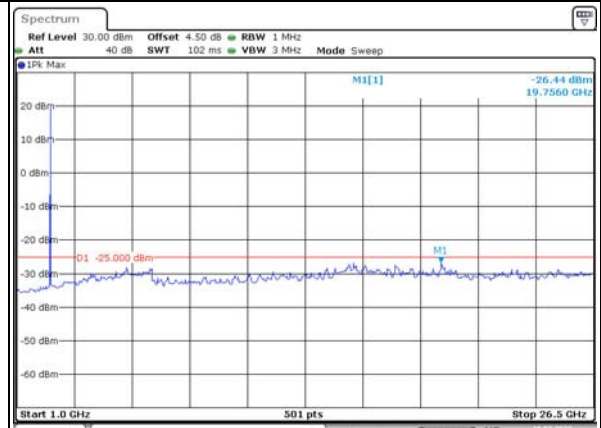
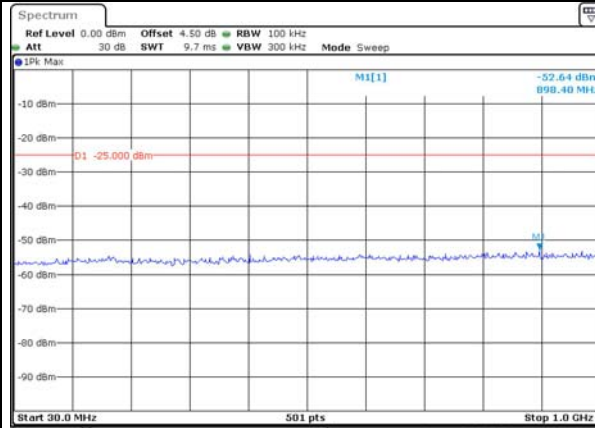


Spurious Emissions at Antenna Terminal

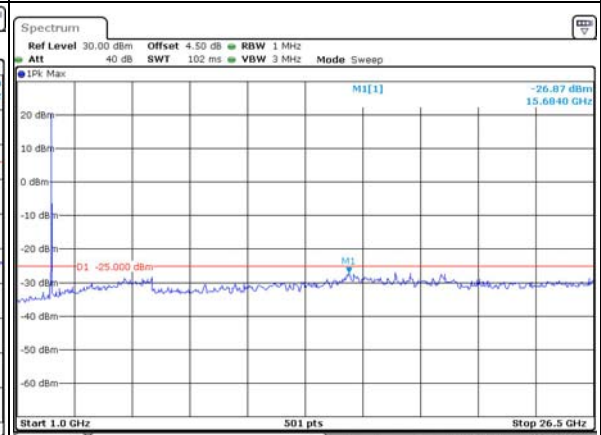
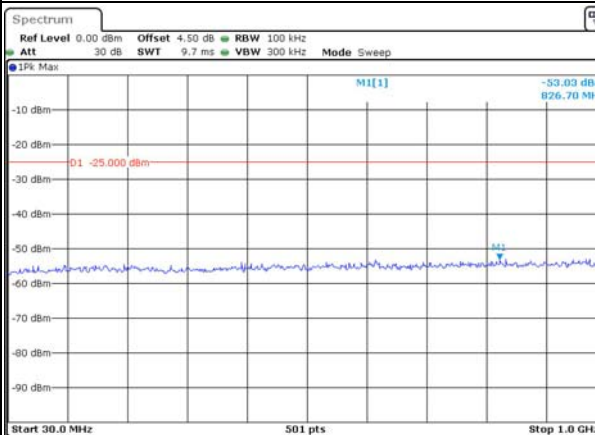
Channel

5MHz Bandwidth QPSK

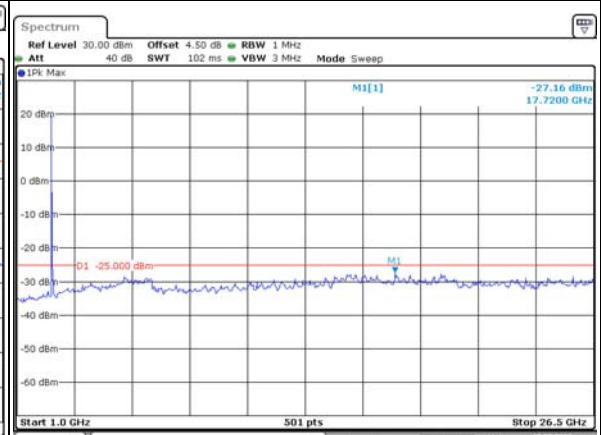
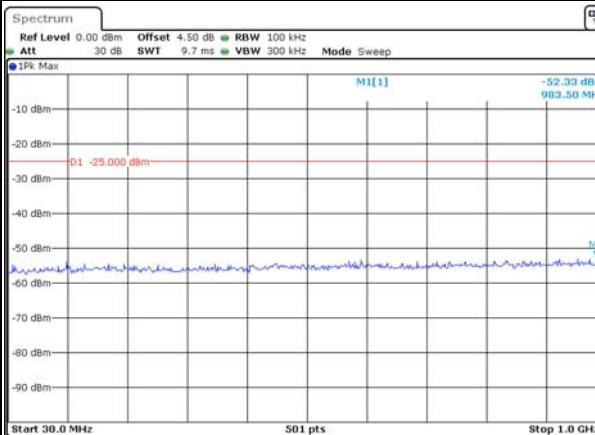
Lowest



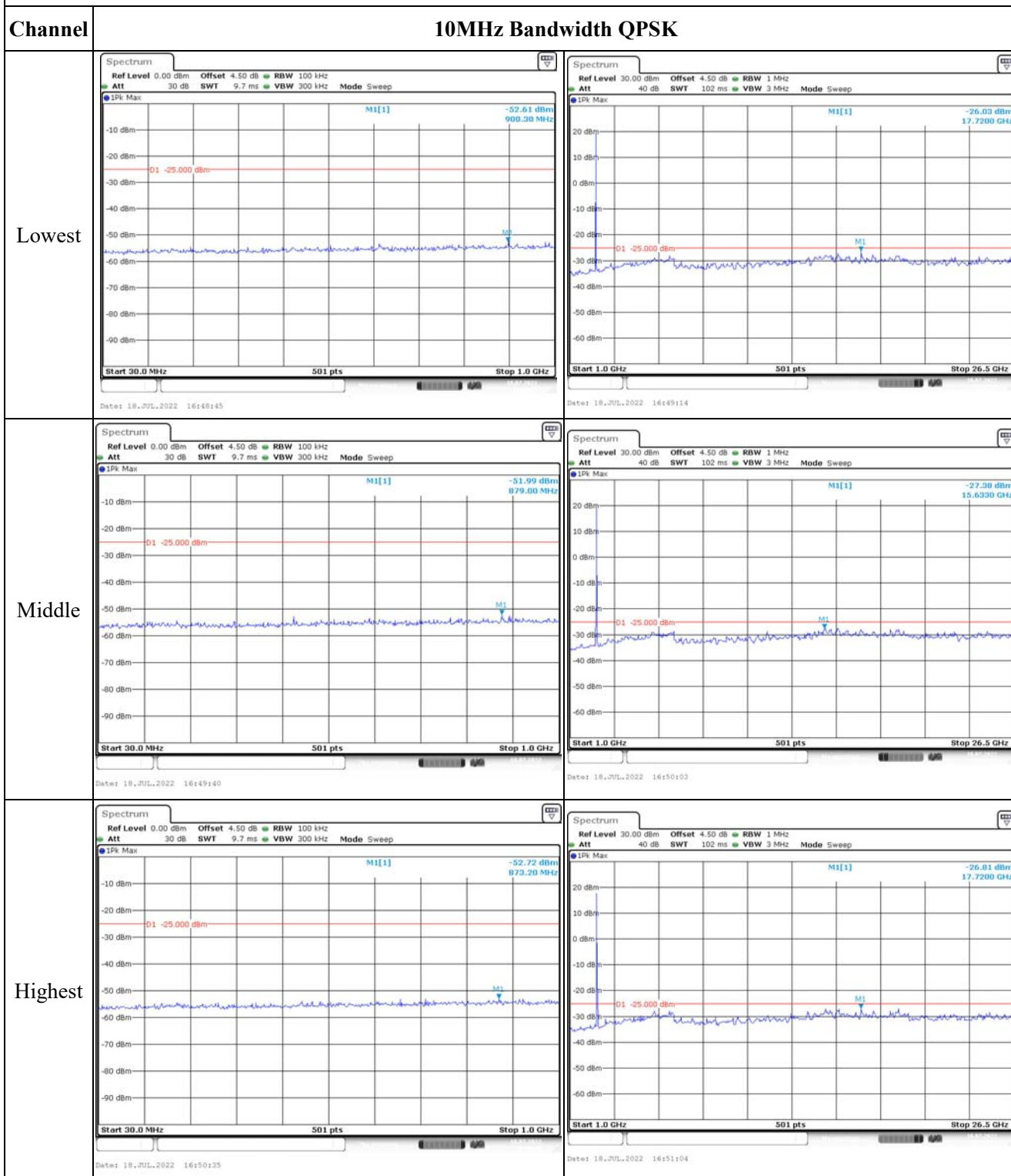
Middle



Highest



Spurious Emissions at Antenna Terminal

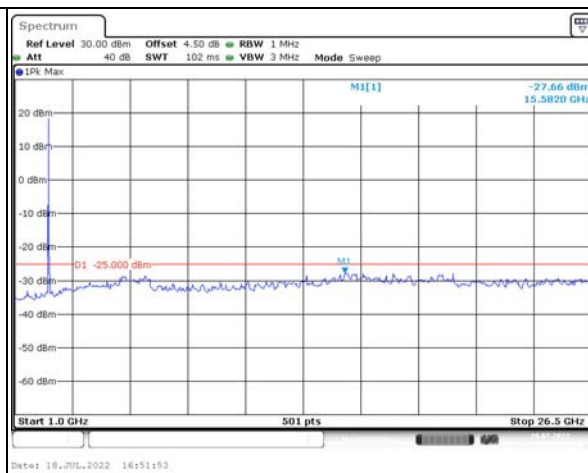
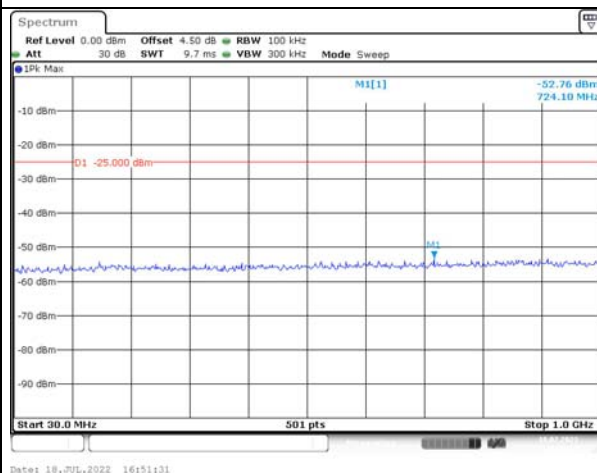


Spurious Emissions at Antenna Terminal

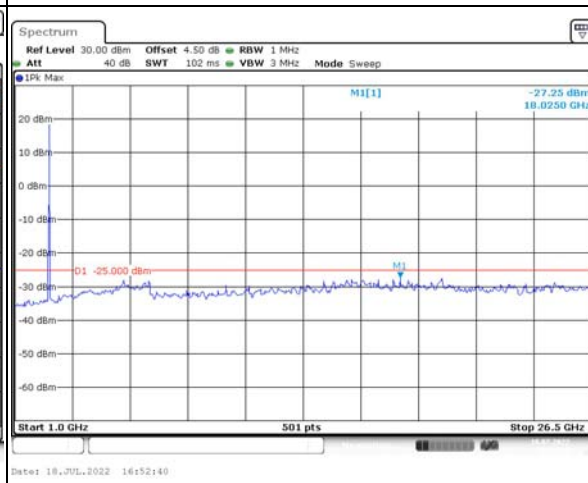
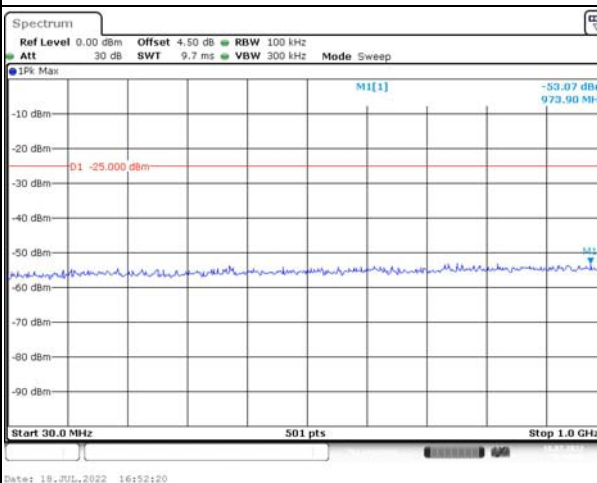
Channel

15MHz Bandwidth QPSK

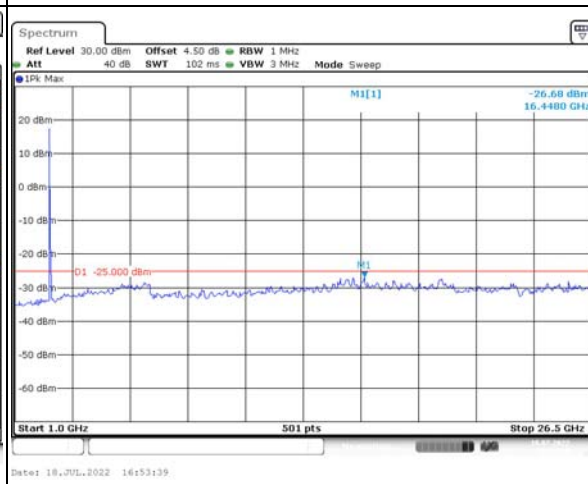
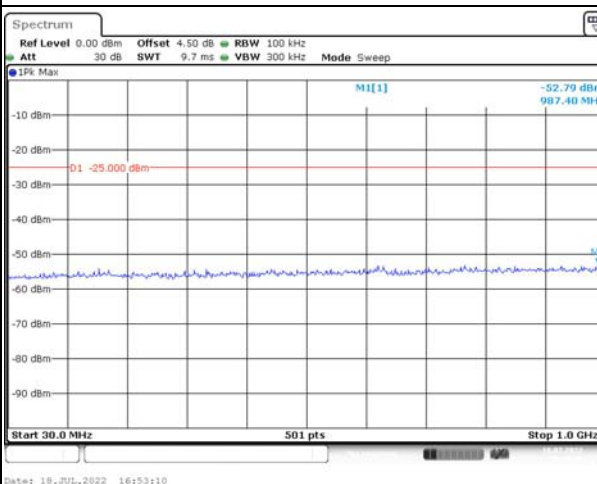
Lowest



Middle



Highest

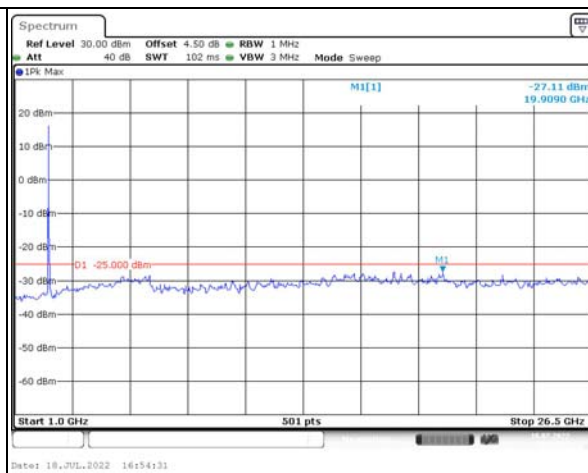
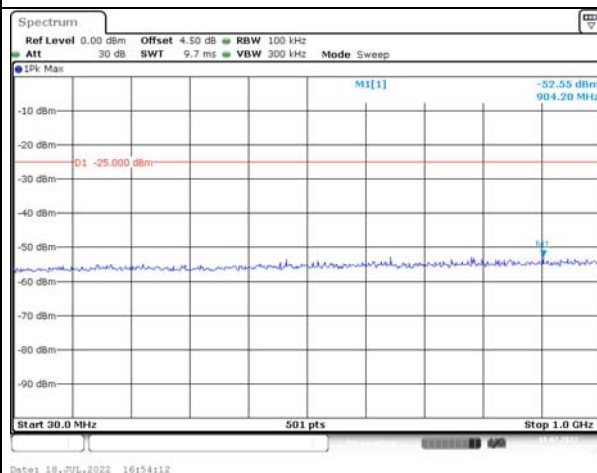


Spurious Emissions at Antenna Terminal

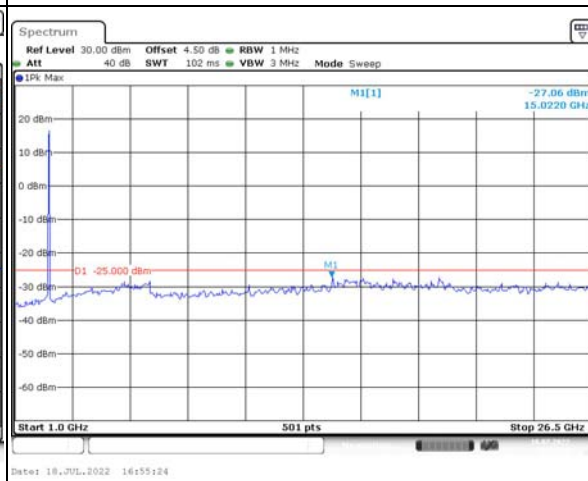
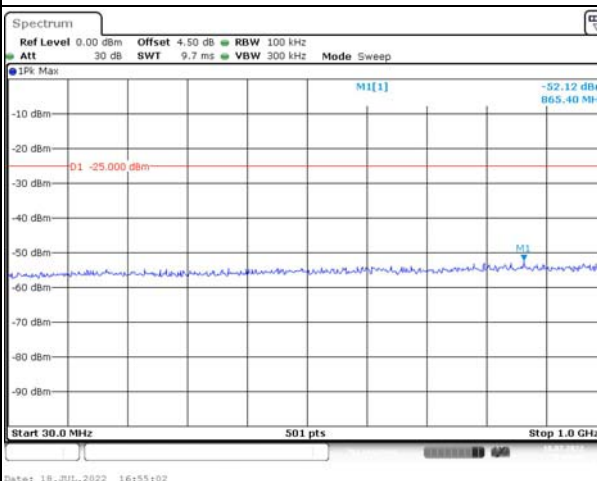
Channel

20MHz Bandwidth QPSK

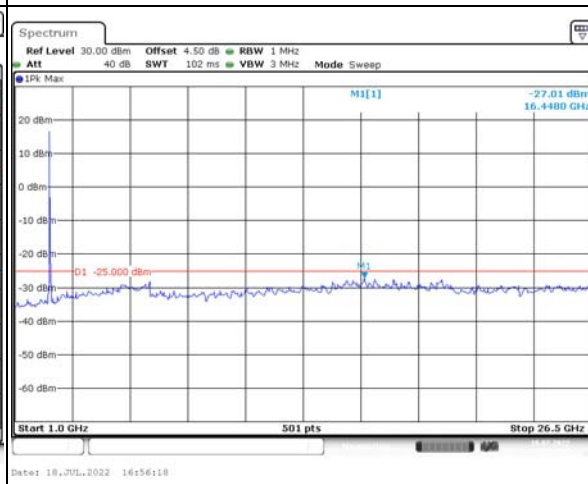
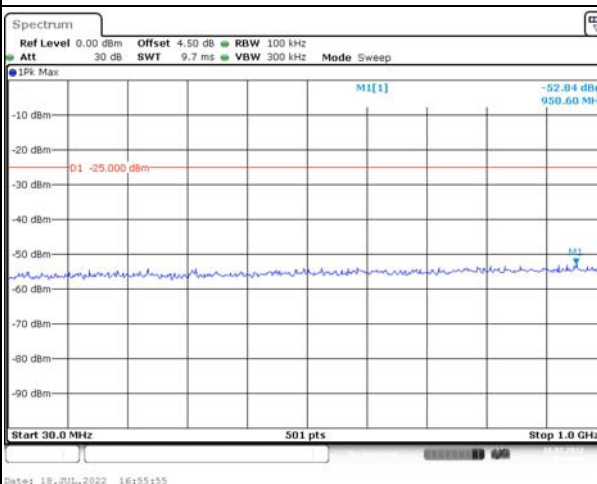
Lowest



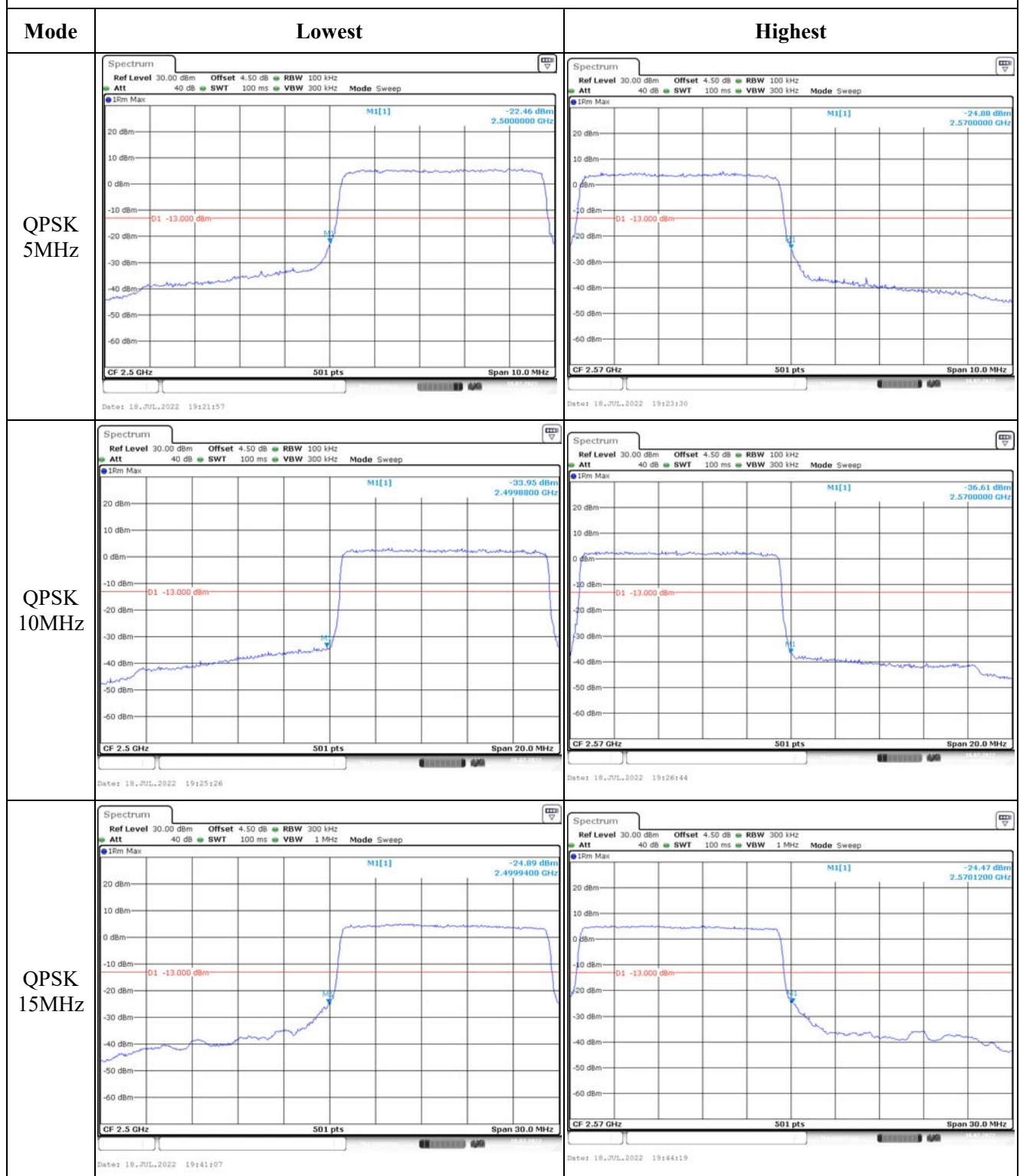
Middle



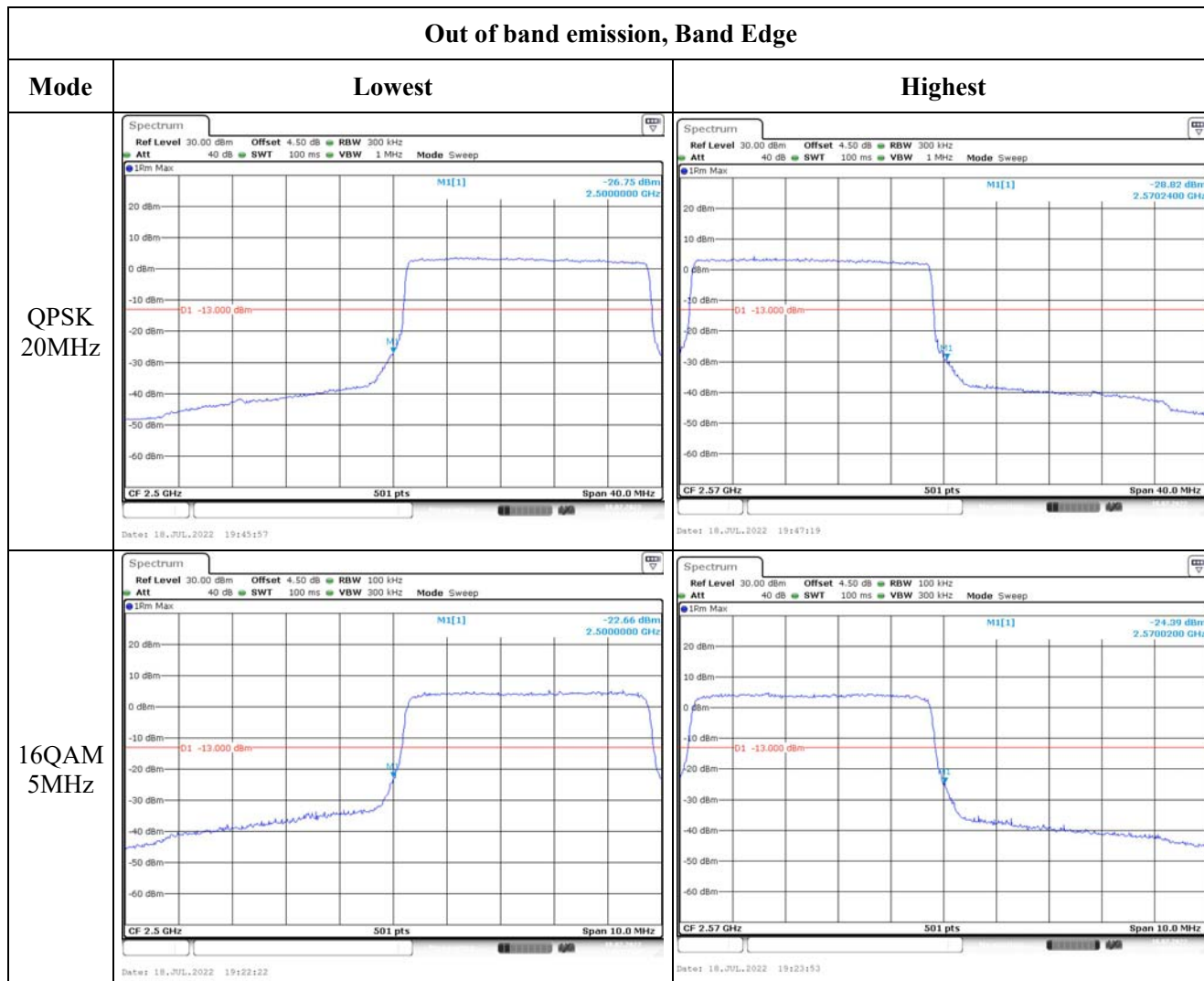
Highest



Out of band emission, Band Edge



Out of band emission, Band Edge



4.7 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	CR22060009-RF-S1	Test Date:	2022-07-15-2022-07-18
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24~27.5	Relative Humidity: (%)	39~56	ATM Pressure: (kPa)	100.1~100.3
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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	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
Unknown	Coaxial tee connector	Unknown	2204006	Each time	N/A
Weinschel	Coaxial Attenuators	53-20-34	LN751	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2023-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	1982/8/11	2022-04-06	2023-04-05

* 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 66▲:

Antenna Gain (dBi):	1.26	Cable Loss (dB):	0.4
Operation Voltage(V _{DC}):			
Lowest:	3.5	Normal:	3.7
		Highest:	4.2

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:**FCC§2.1046;§ 27.50(d)(4)****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	21.3	21.83	20.51	22.98	30
	RB1#3	21.23	21.51	21.19		
	RB1#5	20.45	20.75	21.56		
	RB3#0	21.65	22.12	20.94		
	RB3#3	21.07	21.36	20.93		
	RB6#0	20.01	20.27	19.97		
1.4MHz 16QAM	RB1#0	20.32	20.93	19.38	21.79	30
	RB1#3	20.21	20.61	20.11		
	RB1#5	19.55	19.92	20.59		
	RB3#0	20.86	20.88	20.06		
	RB3#3	20.19	20.19	20.01		
	RB6#0	18.95	19.27	18.97		
3MHz QPSK	RB1#0	21.52	21.69	20.11	22.73	30
	RB1#8	21.68	21.87	21.39		
	RB1#14	20.27	20.3	21.35		
	RB6#0	20.63	21.12	20.01		
	RB6#9	20.2	20.31	20.95		
	RB15#0	20.31	20.43	20.09		
3MHz 16QAM	RB1#0	20.62	20.54	19.69	21.83	30
	RB1#8	20.89	20.7	20.97		
	RB1#14	19.37	19.22	20.77		
	RB6#0	19.65	20.11	19.2		
	RB6#9	19.09	19.29	20.11		
	RB15#0	19.16	19.45	19.22		
5MHz QPSK	RB1#0	21.48	21.77	20.23	22.63	30
	RB1#13	21.2	21.29	21.04		
	RB1#24	20.46	20.31	21.53		
	RB15#0	20.33	20.76	20.15		
	RB15#10	20.41	20.31	20.61		
	RB25#0	20.38	20.4	20.04		
5MHz 16QAM	RB1#0	20.7	20.86	19.33	21.72	30
	RB1#13	20.55	20.3	20.08		
	RB1#24	19.73	19.35	20.63		
	RB15#0	19.15	19.78	19.24		
	RB15#10	19.25	19.31	19.73		
	RB25#0	19.28	19.42	19.21		

10MHz QPSK	RB1#0	21.9	21.67	20.47	22.76	30
	RB1#25	21.51	21.48	20.89		
	RB1#49	20.7	20.13	21.61		
	RB25#0	20.86	20.69	20.19		
	RB25#25	20.73	20.31	20.78		
	RB50#0	20.59	20.48	20.04		
15MHz QPSK	RB1#0	21.58	21.93	21.85	22.79	30
	RB1#38	21.56	21.38	20.99		
	RB1#74	21.48	20.58	21.49		
	RB36#0	20.97	20.72	20.7		
	RB36#39	20.82	20.3	20.85		
	RB75#0	20.6	20.55	20.19		
20MHz QPSK	RB1#0	21.86	21.9	21.85	22.90	30
	RB1#50	22.04	21.64	21.07		
	RB1#99	21.4	20.36	21.75		
	RB50#0	21.51	21.04	21.24		
	RB50#50	21.04	20.15	21.14		
	RB100#0	20.78	20.46	20.2		
Note: EIRP=Conducted Power(dBm) - L _C (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	4.84	4.75	4.75	13
	RB100#0	5.25	5.3	5.13	13
5MHz 16QAM	RB1#0	5.54	5.25	5.25	13
	RB100#0	5.23	5.33	5.44	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
1.4MHz QPSK	1.102	1.47	1.102	1.464	1.287	1.908
1.4MHz 16QAM	1.102	1.482	1.108	1.482	1.114	1.5
3MHz QPSK	2.683	3.084	2.683	3.132	2.683	3.06
3MHz 16QAM	2.683	3.12	2.683	3.156	2.683	3.096
5MHz QPSK	4.511	5.12	4.471	5.1	4.511	5.1
5MHz 16QAM	4.491	5.12	4.551	5.64	4.491	5.16
10MHz QPSK	8.942	9.52	8.942	9.56	8.901	9.6
15MHz QPSK	13.593	16.98	13.533	16.68	13.653	16.8
20MHz QPSK	17.964	21.36	17.964	21.04	18.044	20.8
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.

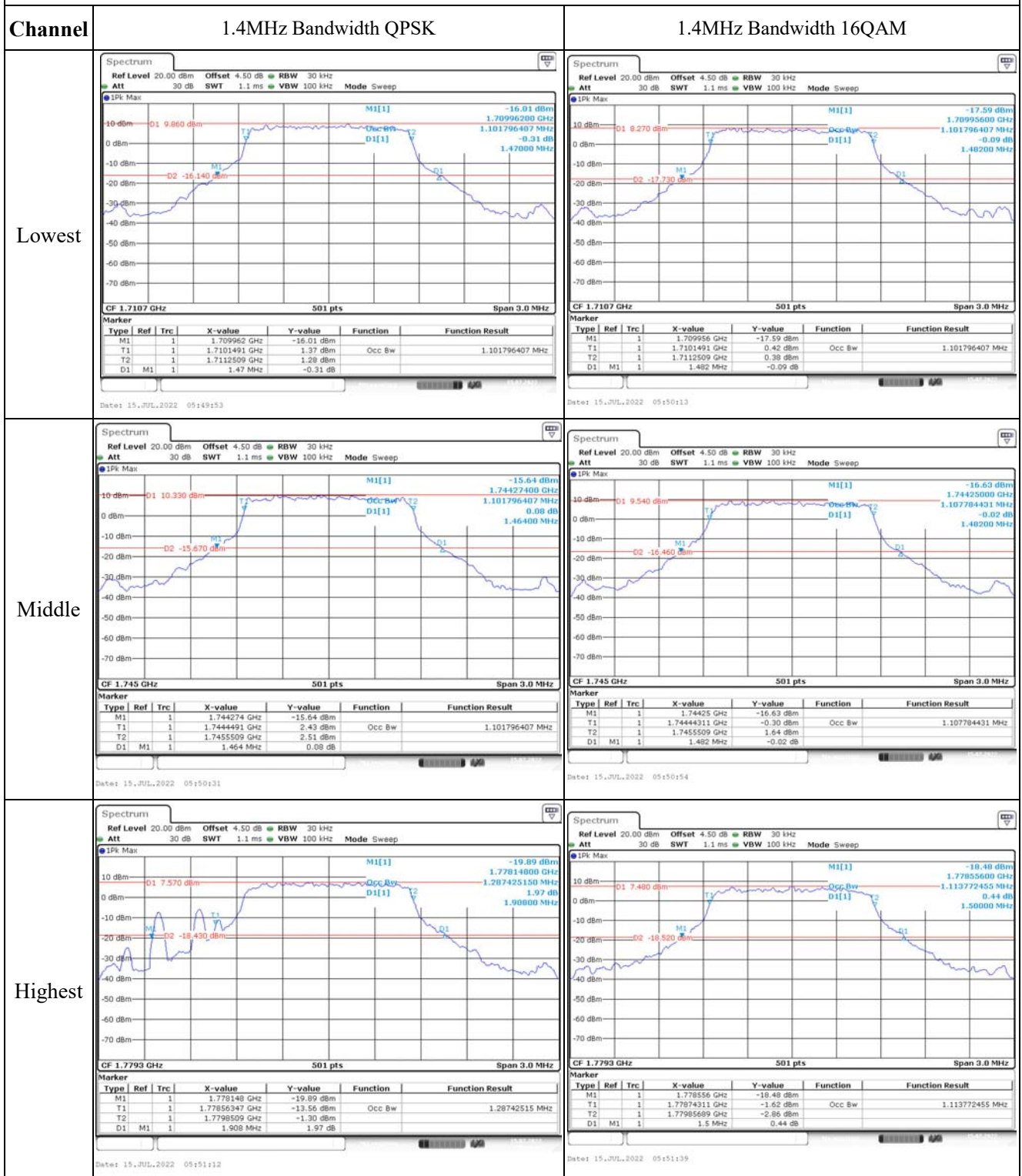
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.7	1710.217	1710.00	1779.059	1780
	-20	3.7	1710.296	1710.00	1779.029	1780
	-10	3.7	1710.277	1710.00	1779.014	1780
	0	3.7	1710.259	1710.00	1778.988	1780
	10	3.7	1710.259	1710.00	1778.972	1780
	20	3.7	1710.258	1710.00	1778.942	1780
	30	3.7	1710.235	1710.00	1778.933	1780
	40	3.7	1710.218	1710.00	1778.916	1780
	50	3.7	1710.210	1710.00	1778.890	1780
Frequency Stability vs. Voltage	20	3.5	1710.201	1710.00	1778.860	1780
	20	4.2	1710.299	1710.00	1778.845	1780
					Result:	Pass

Test Mode:	5M 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	3.7	1710.223	1710.00	1779.432	1780
	-20	3.7	1710.211	1710.00	1779.322	1780
	-10	3.7	1710.232	1710.00	1779.234	1780
	0	3.7	1710.212	1710.00	1779.322	1780
	10	3.7	1710.243	1710.00	1779.223	1780
	20	3.7	1710.211	1710.00	1779.254	1780
	30	3.7	1710.223	1710.00	1779.266	1780
	40	3.7	1710.245	1710.00	1779.231	1780
	50	3.7	1710.212	1710.00	1779.275	1780
Frequency Stability vs. Voltage	20	3.5	1710.224	1710.00	1779.255	1780
	20	4.2	1710.229	1710.00	1779.287	1780
					Result:	Pass

Test Plots:

Occupied Bandwidth



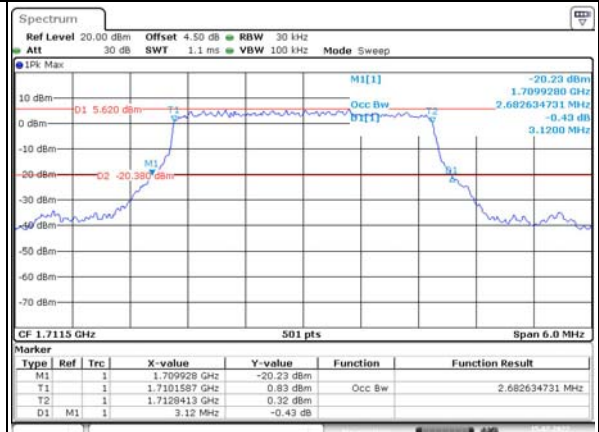
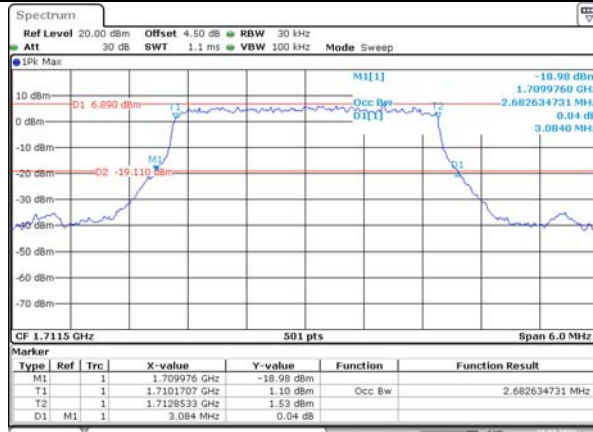
Occupied Bandwidth

Channel

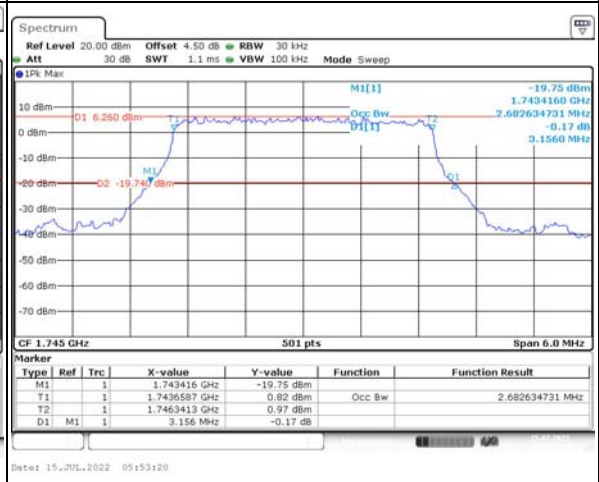
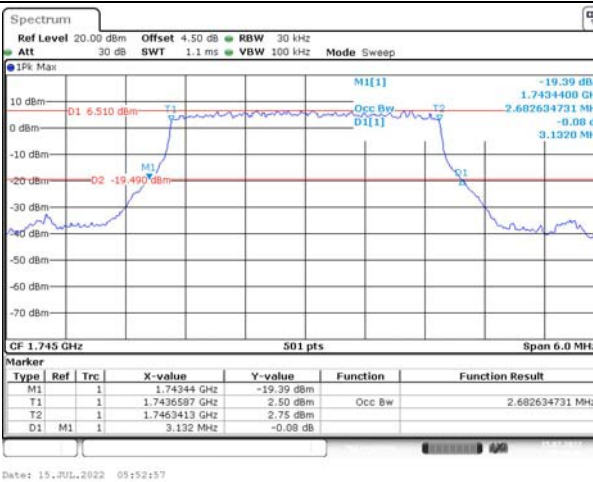
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

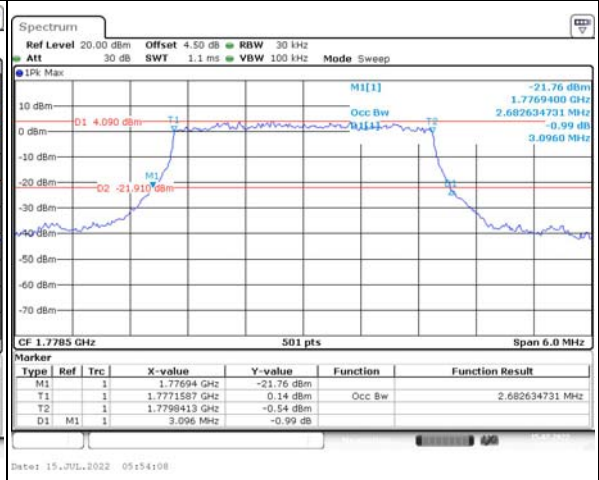
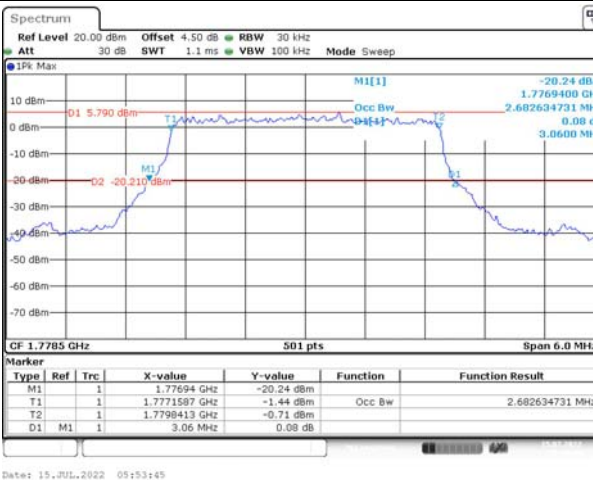
Lowest



Middle



Highest



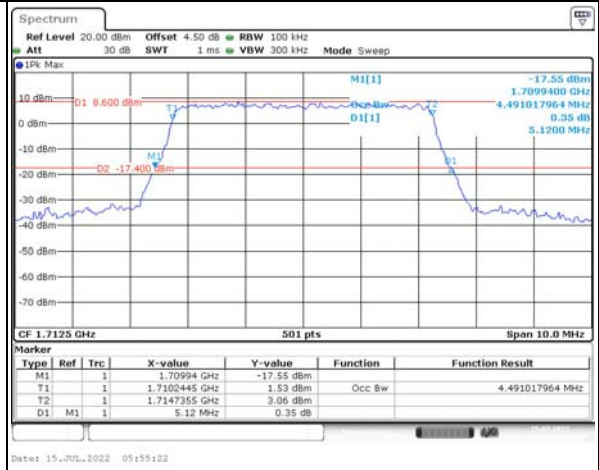
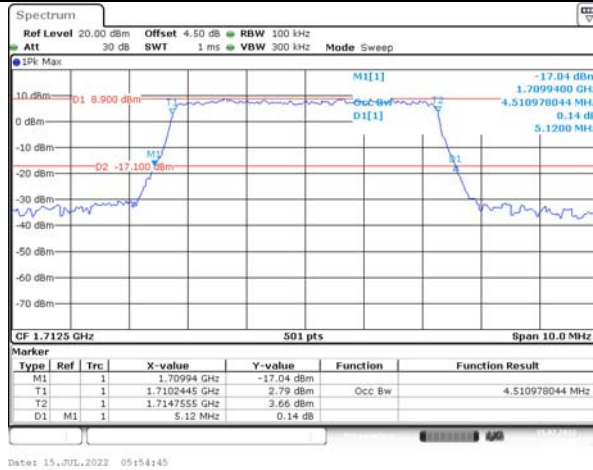
Occupied Bandwidth

Channel

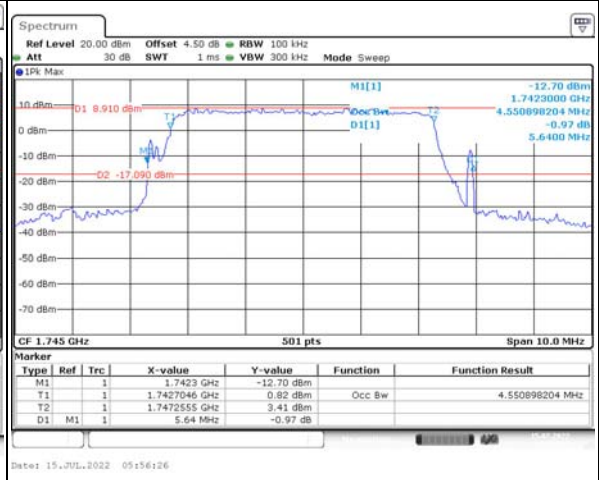
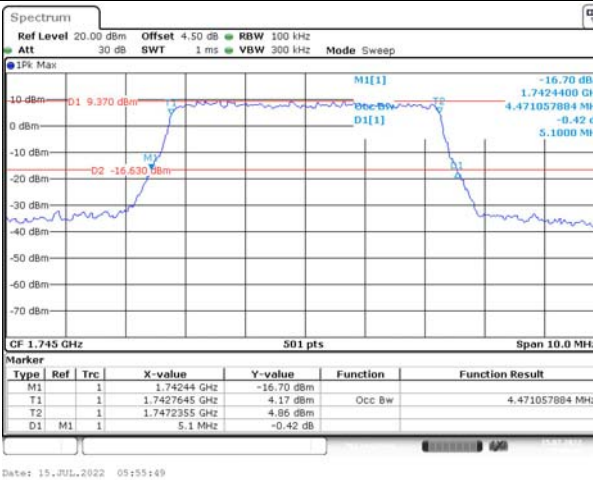
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

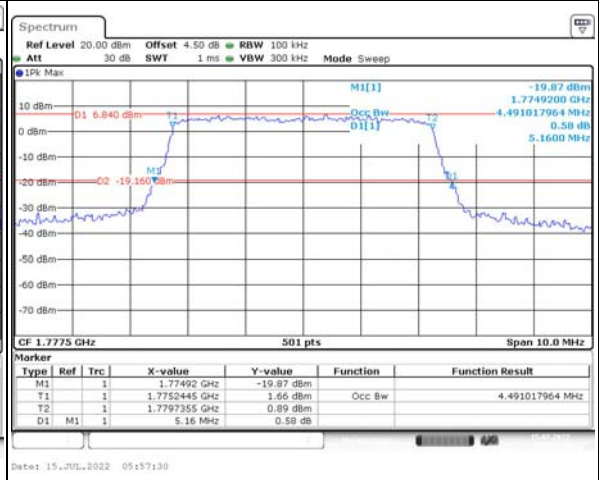
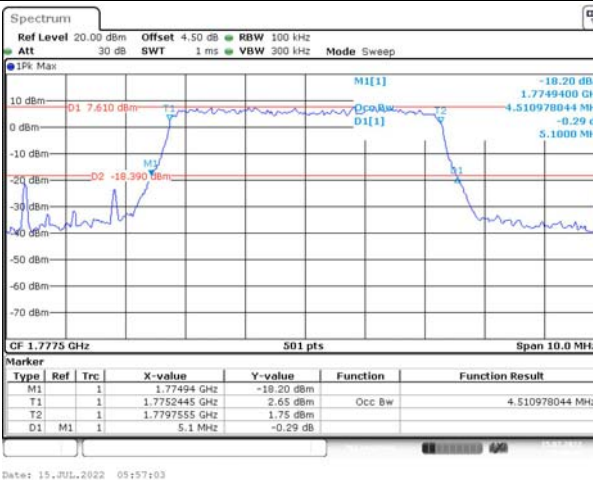
Lowest



Middle



Highest

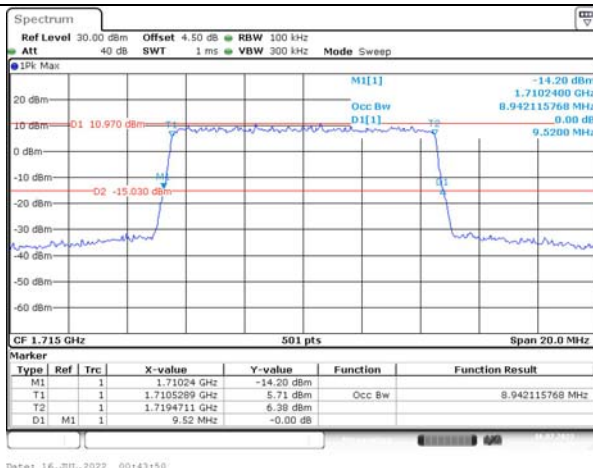


Occupied Bandwidth

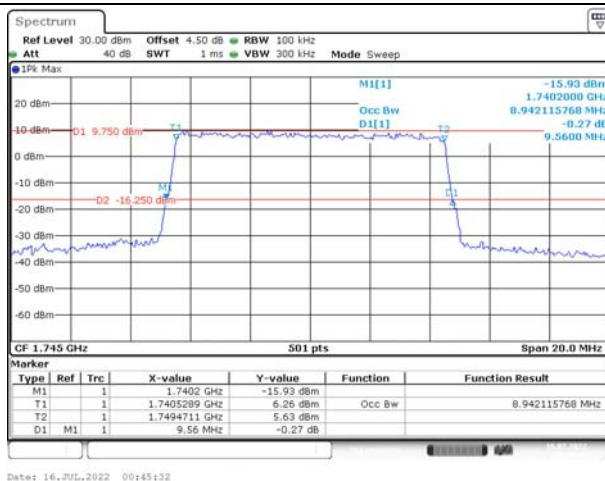
Channel

10MHz Bandwidth QPSK

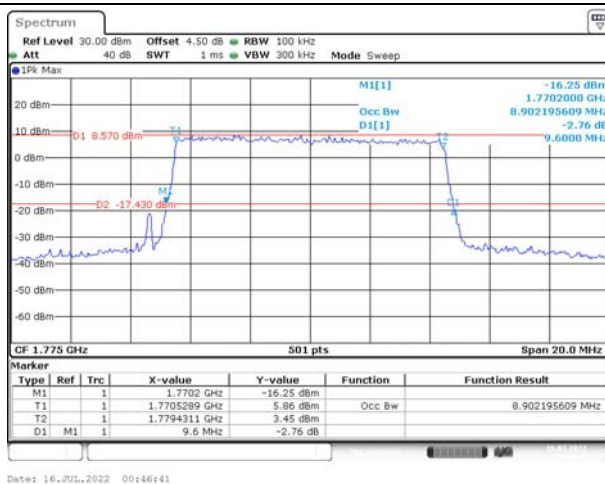
Lowest



Middle



Highest

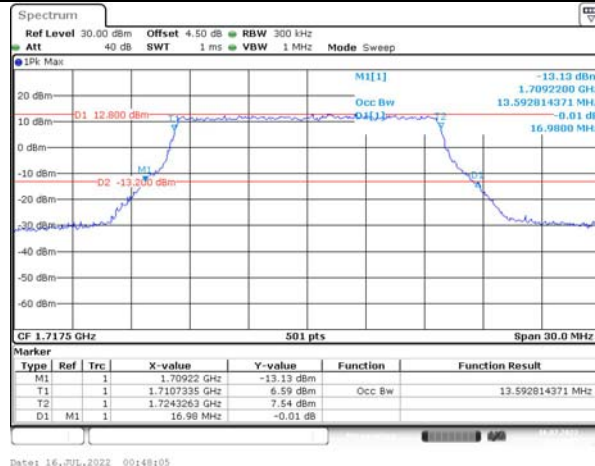


Occupied Bandwidth

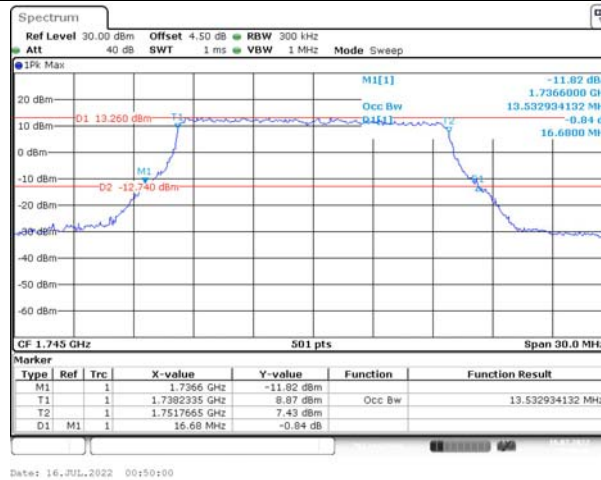
Channel

15MHz Bandwidth QPSK

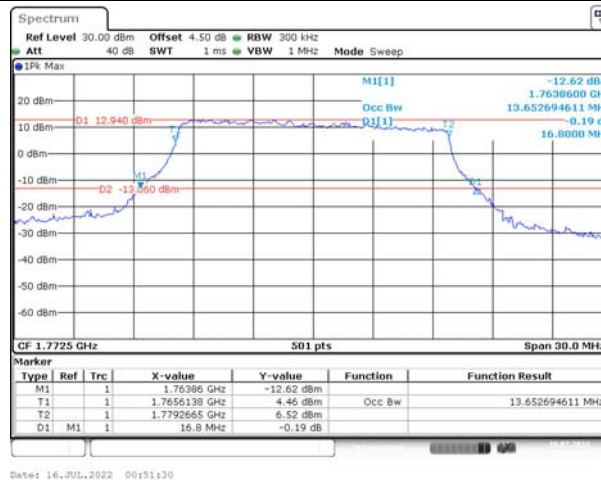
Lowest



Middle



Highest

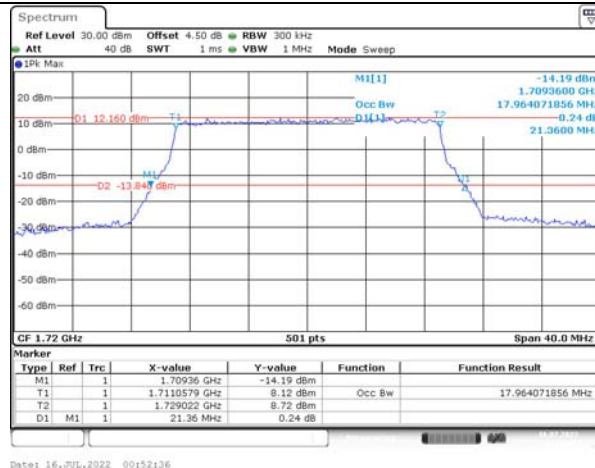


Occupied Bandwidth

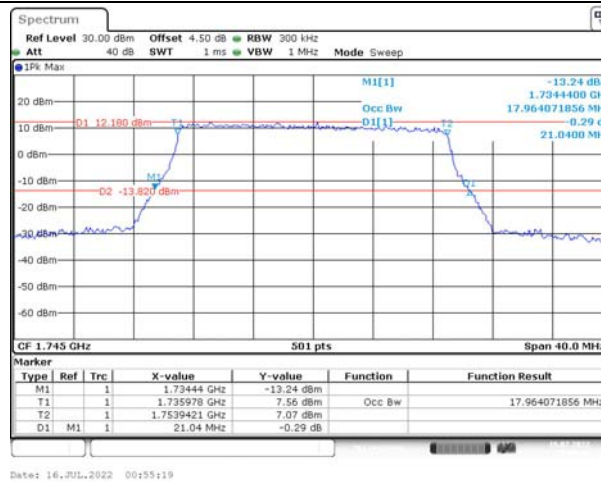
Channel

20MHz Bandwidth QPSK

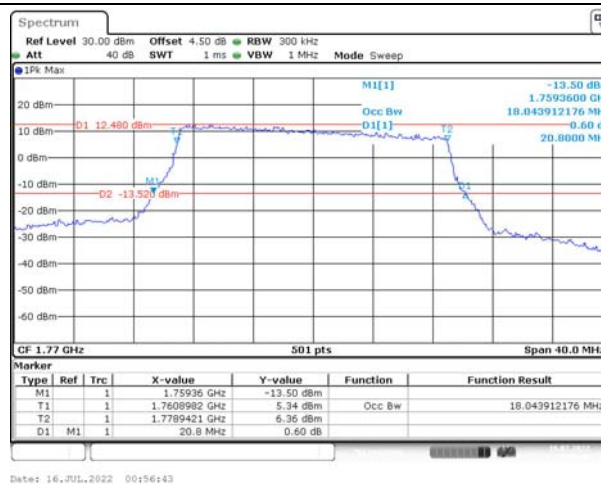
Lowest



Middle



Highest

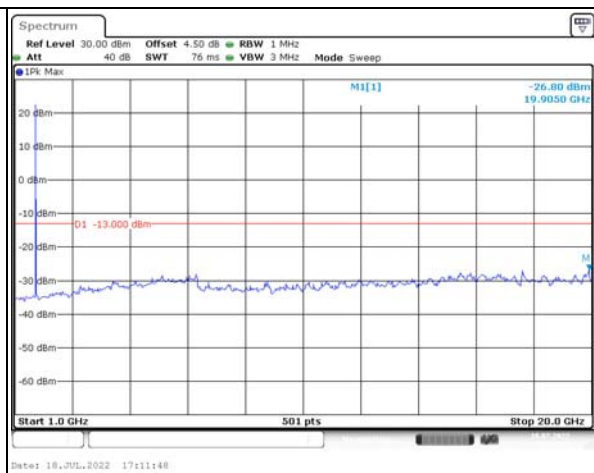
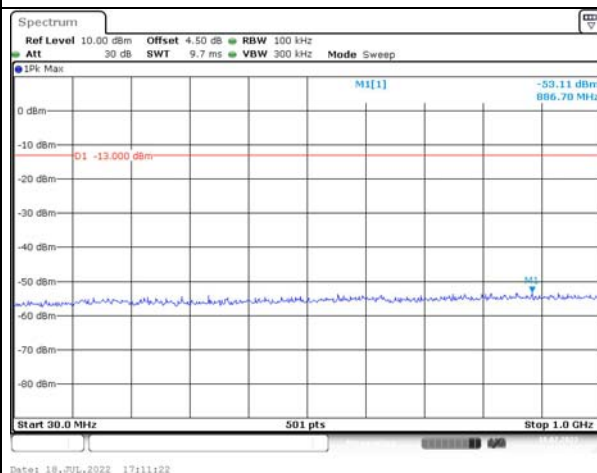


Spurious Emissions at Antenna Terminal

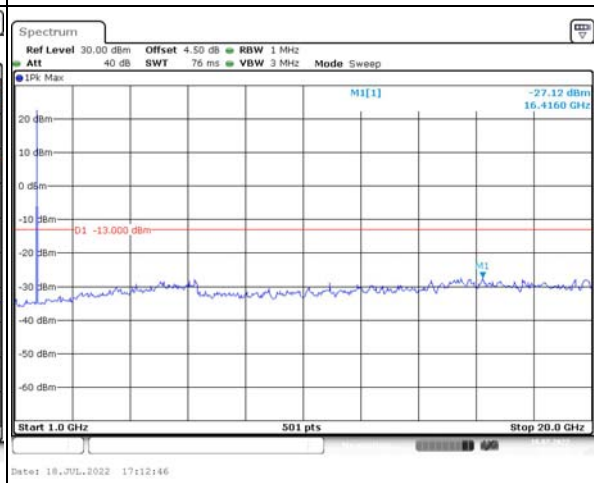
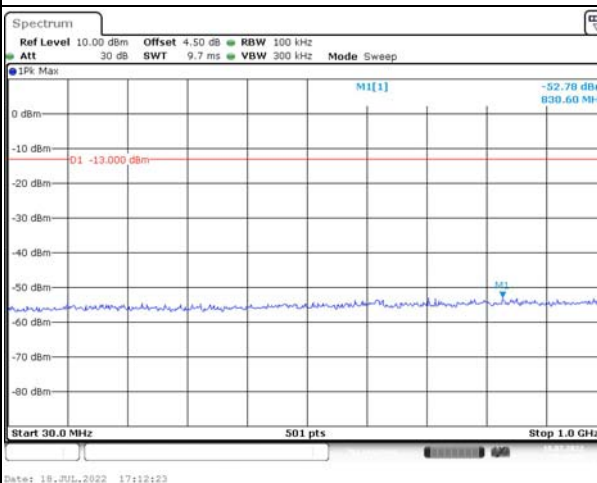
Channel

1.4MHz Bandwidth QPSK

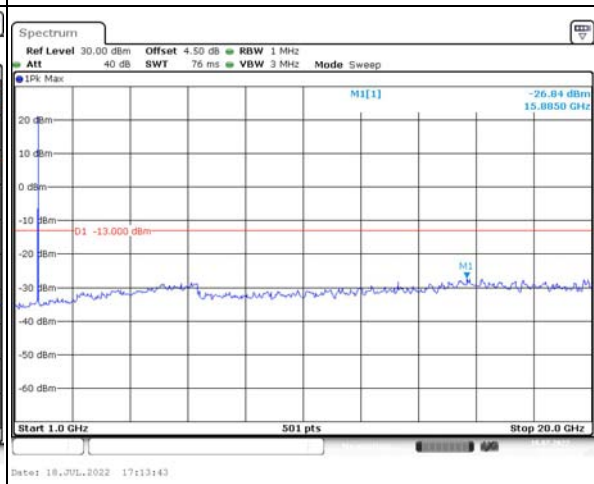
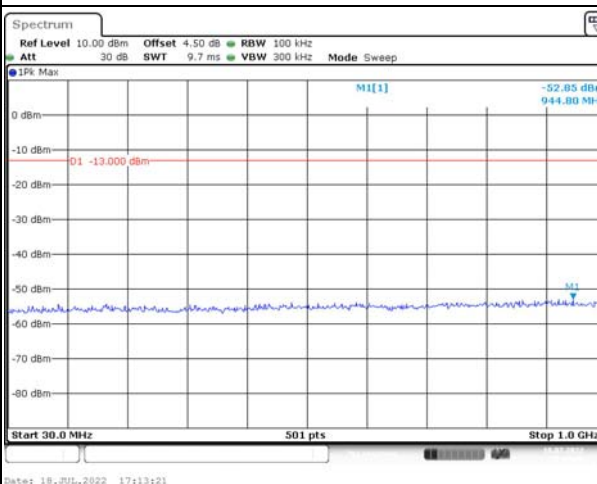
Lowest



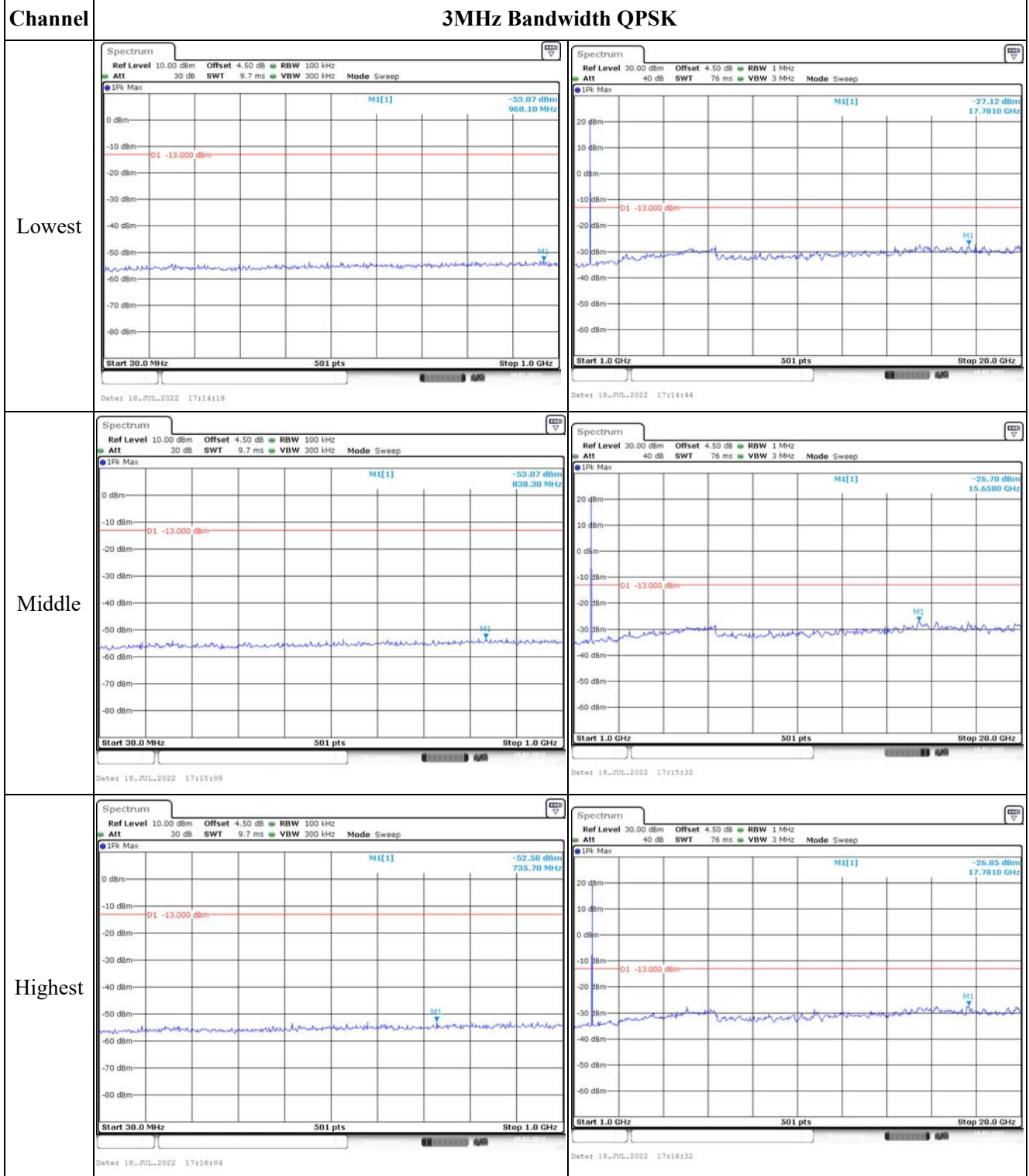
Middle



Highest



Spurious Emissions at Antenna Terminal

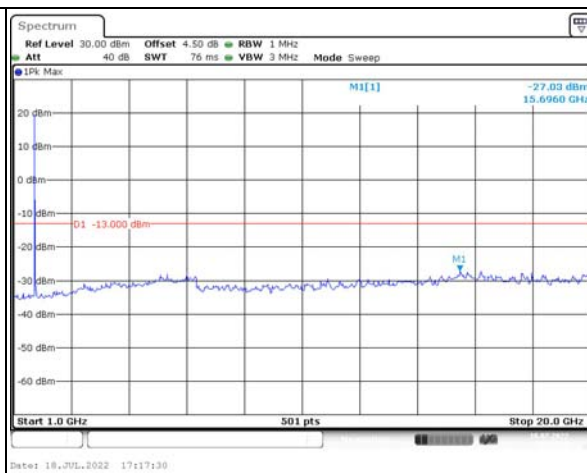
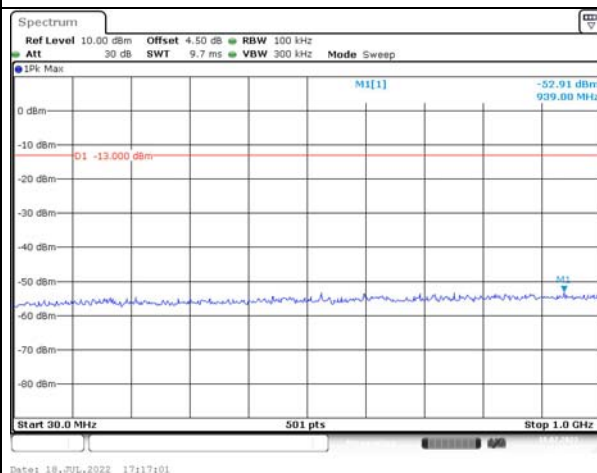


Spurious Emissions at Antenna Terminal

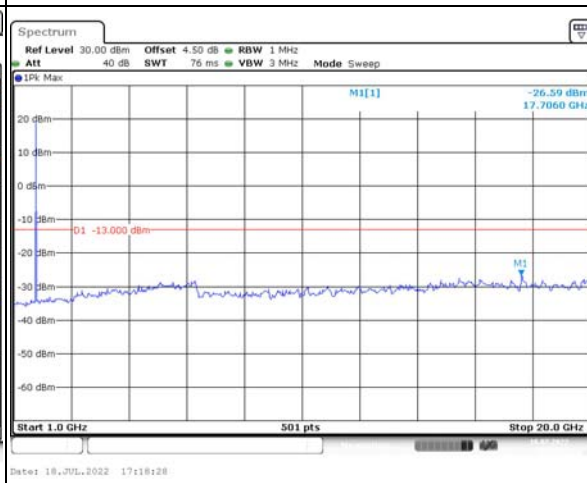
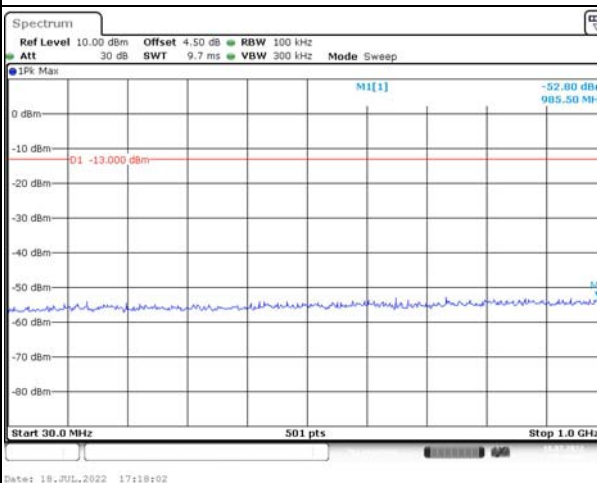
Channel

5MHz Bandwidth QPSK

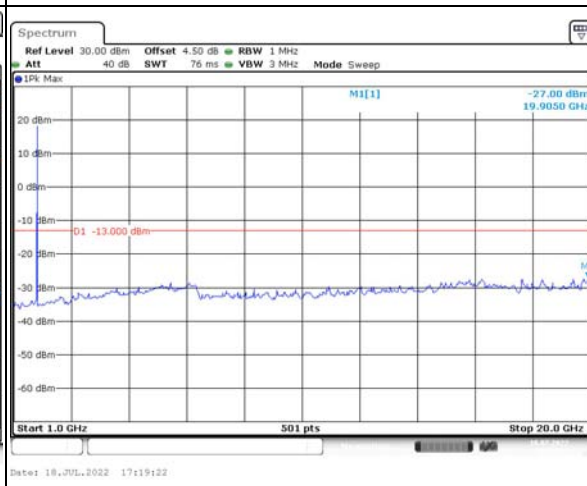
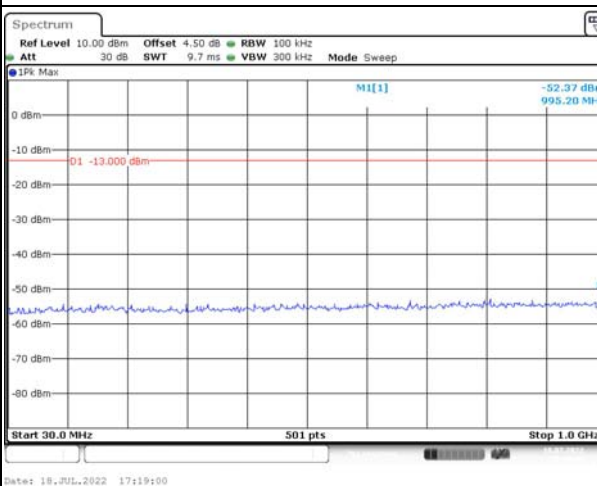
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

