

Out of band emission, Band Edge

Mode	Lowest	Highest
R99		
HSUPA		
HSDPA		

4.5 Antenna Port Test Data and Results for WCDMA Band 5:

Serial Number:	1ZLT	Test Date:	2023/02/22
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.6	Relative Humidity: (%)	53	ATM Pressure: (kPa)	101.7
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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	2022/07/15	2023/07/14
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:

Operation Modes	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
WCDMA	826.4	836.6	846.6

Test Data:**FCC §2.1046; § 22.913 (a)****RF Output Power:**

Test Mode	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
	Lowest Channel	Middle Channel	Highest Channel		
WCDMA R99	22.19	22.74	22.6	16.51	38.45
HSDPA Subtest 1	22.04	22.28	22.39	16.05	38.45
HSDPA Subtest 2	21.89	21.84	22.37	15.66	38.45
HSDPA Subtest 3	21.61	21.48	22.08	15.38	38.45
HSDPA Subtest 4	21.58	21.48	22.27	15.35	38.45
HSUPA Subtest 1	22.19	22.22	22.96	15.99	38.45
HSUPA Subtest 2	22.05	22.29	22.68	16.06	38.45
HSUPA Subtest 3	21.99	22.22	22.17	15.99	38.45
HSUPA Subtest 4	21.87	21.78	22.46	15.64	38.45
HSUPA Subtest 5	21.73	22.29	21.74	16.06	38.45
DC-HSDPA Subtest 1	22.19	22.56	22.94	16.33	38.45
DC-HSDPA Subtest 2	22.06	22.13	22.56	15.9	38.45
DC-HSDPA Subtest 3	21.96	21.77	22.22	15.73	38.45
DC-HSDPA Subtest 4	21.94	22.44	22.38	16.21	38.45
HSPA+ Subtest 1	21.79	22.03	22.24	15.8	38.45

Note:

ERP= Conducted Power(dBm) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(dBi)-2.15

Result:**Pass****Peak-to-average Ratio(PAR)**

Test Mode	Peak-to-average Ratio(dB)			Limit (dB)
	Lowest Channel	Middle Channel	Highest Channel	
WCDMA R99	3.04	3.65	2.87	13
HSDPA	4.52	4.67	4.81	13
HSUPA	5.39	5.45	5.42	13

Result:**Pass**

FCC §2.1049, §22.917, §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
WCDMA R99	4.153	4.168	4.168	4.732	4.732	4.732
HSDPA	4.168	4.182	4.168	4.703	4.732	4.732
HSUPA	4.182	4.182	4.168	4.732	4.747	4.732

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

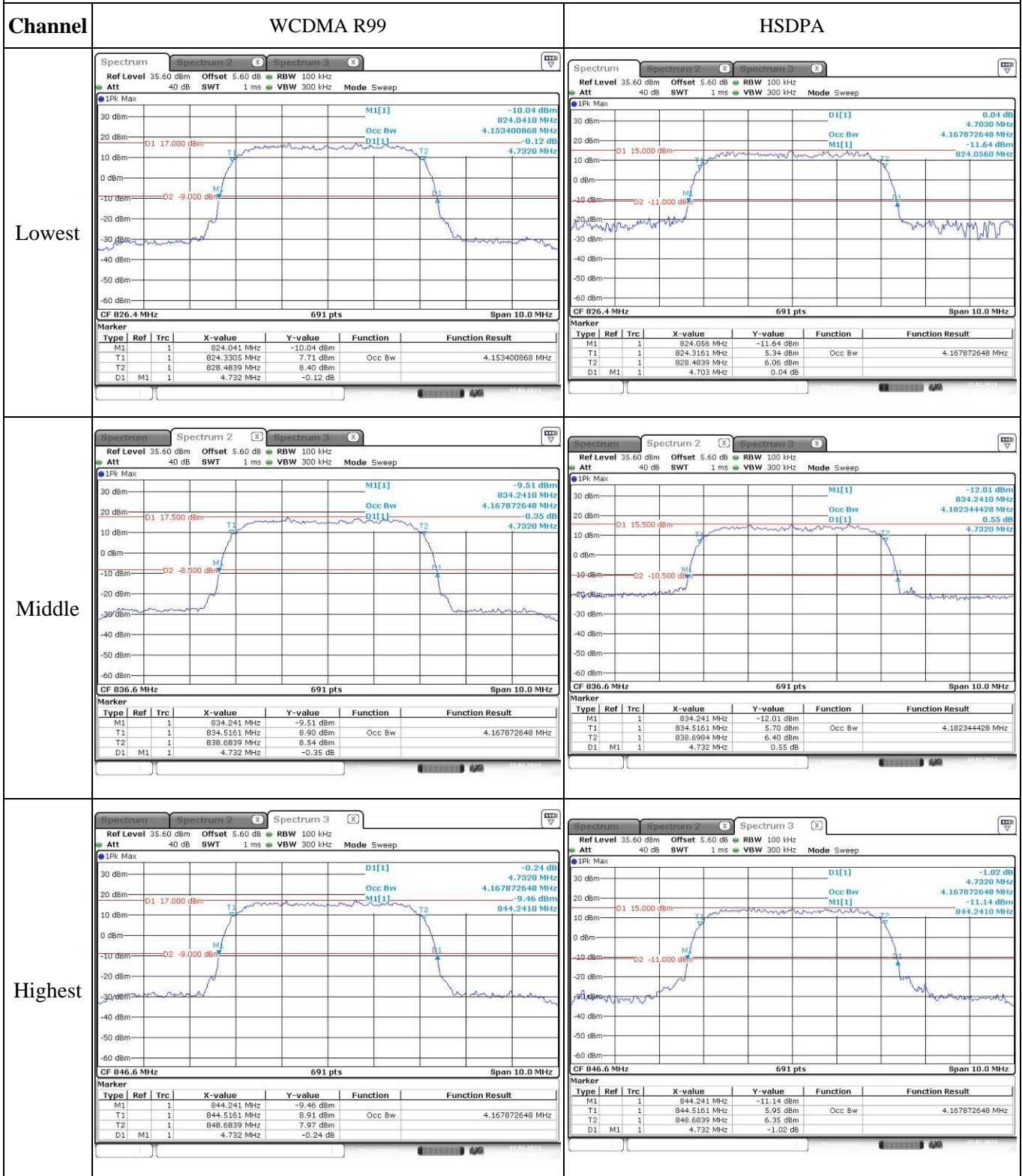
FCC §2.1051, §22.917(a):Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

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 Modulation:	WCDMA R99		Test Channel:	836.6	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.89	-11.26	-0.0135	2.5
	-20	3.89	5.12	0.0061	2.5
	-10	3.89	-7.54	-0.0090	2.5
	0	3.89	6.69	0.0080	2.5
	10	3.89	-9.3	-0.0111	2.5
	20	3.89	-7.91	-0.0095	2.5
	30	3.89	8.99	0.0107	2.5
	40	3.89	8.43	0.0101	2.5
Frequency Stability vs. Voltage	50	3.89	6.94	0.0083	2.5
	20	3.45	9.66	0.0115	2.5
	20	4.48	-6.08	-0.0073	2.5
				Result:	Pass

Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth

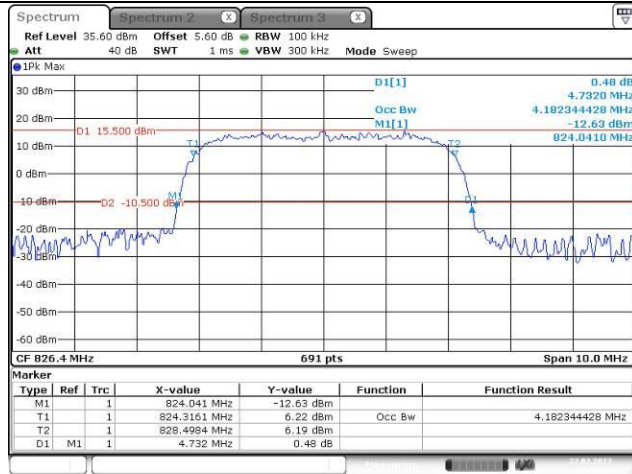


Occupied Bandwidth

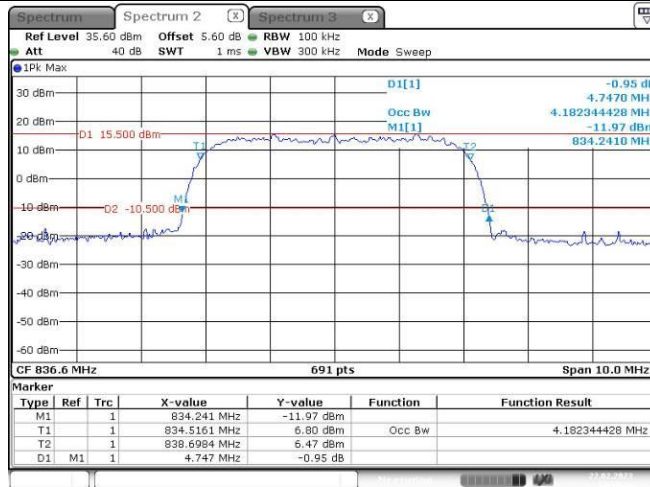
Channel

HSUPA

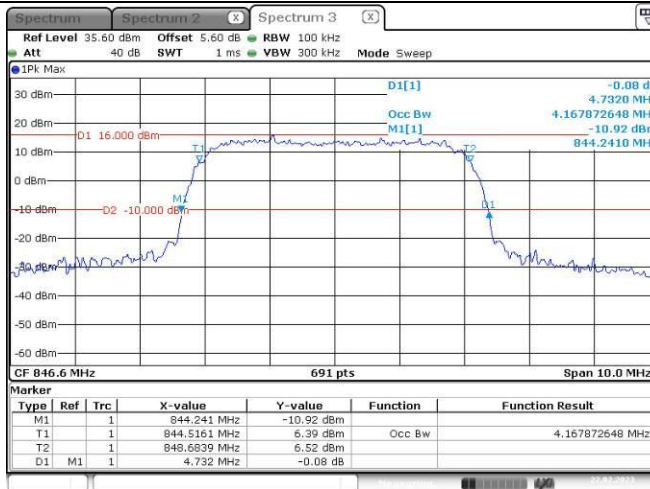
Lowest



Middle



Highest

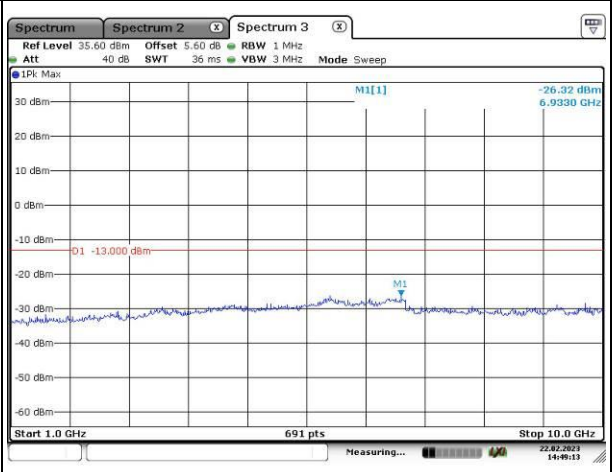
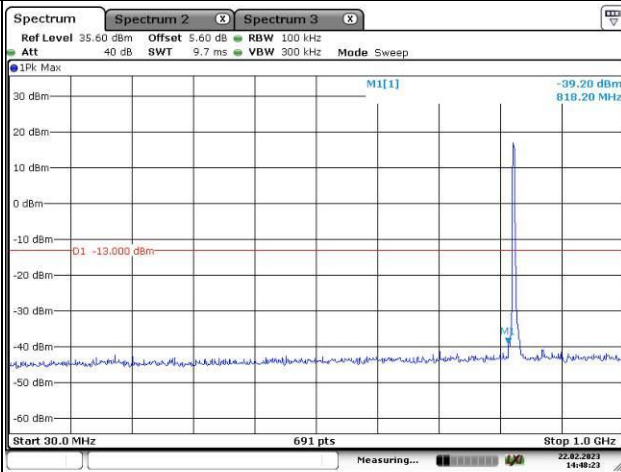


Spurious Emissions at Antenna Terminal

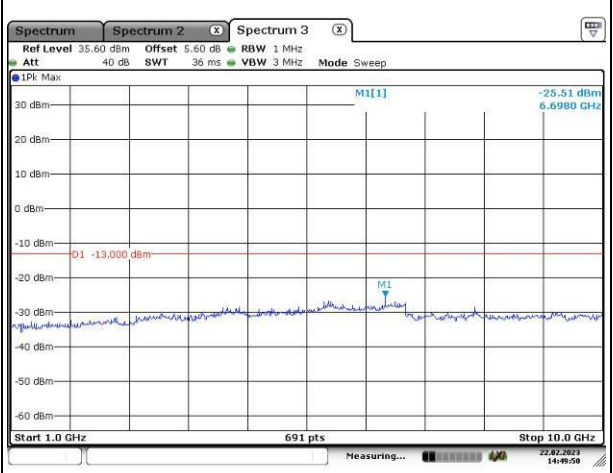
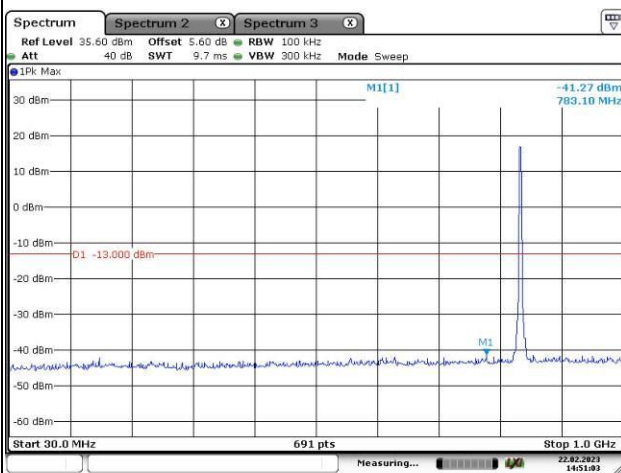
Channel

WCDMA R99

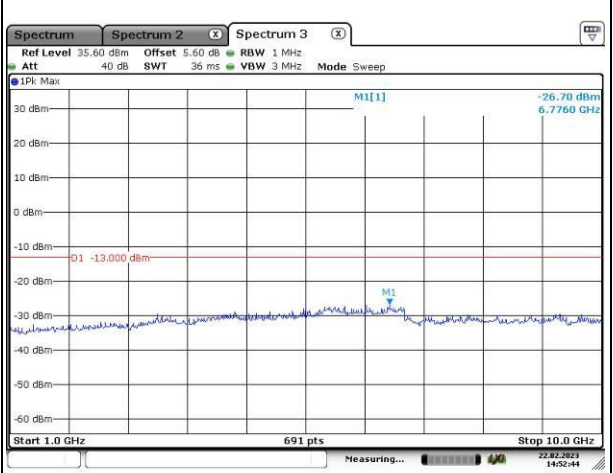
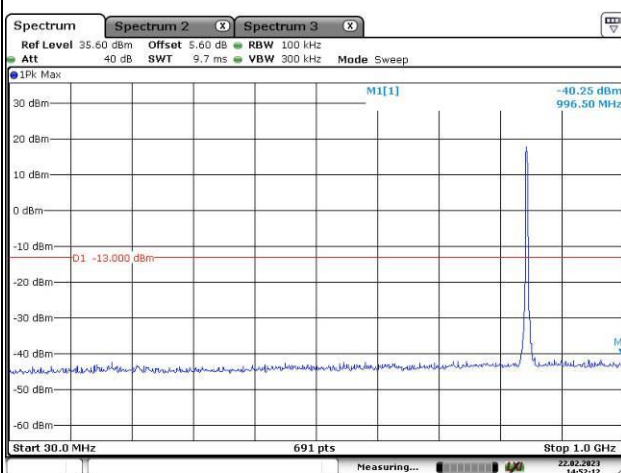
Lowest



Middle



Highest



Out of band emission, Band Edge

Mode	Lowest	Highest
R99		
HSUPA		
HSDPA		

4.6 Antenna Port Test Data and Results for LTE Band 2

Serial Number:	1ZLT	Test Date:	2023/02/04
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3	Relative Humidity: (%)	42	ATM Pressure: (kPa)	101.2
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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	2022/07/15	2023/07/14
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	1850.7	1880	1909.3
3MHz	1851.5	1880	1908.5
5MHz	1852.5	1880	1907.5
10MHz	1855	1880	1905
15MHz	1857.5	1880	1902.5
20MHz	1860	1880	1900

Test Data:

FCC §2.1046; § 24.232						
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	21.98	21.9	22.18	17.67	33
	RB1#3	21.95	21.95	22.27		
	RB1#5	21.9	21.91	22.19		
	RB3#0	21.98	21.97	22.12		
	RB3#3	21.97	21.96	22.13		
	RB6#0	21.04	21.09	21.3		
1.4MHz 16QAM	RB1#0	20.8	20.94	20.99	16.5	33
	RB1#3	20.88	21.03	21.05		
	RB1#5	20.79	20.93	21.01		
	RB3#0	21.07	20.89	21.07		
	RB3#3	21.1	20.91	21.07		
	RB6#0	20.05	20.09	20.17		
3MHz QPSK	RB1#0	21.77	21.78	22	17.55	33
	RB1#8	21.86	21.87	22.15		
	RB1#14	21.73	21.76	22.09		
	RB6#0	20.94	20.96	21.18		
	RB6#9	20.9	20.96	21.18		
	RB15#0	20.94	20.95	21.1		
3MHz 16QAM	RB1#0	21.17	20.86	20.86	16.71	33
	RB1#8	21.31	20.92	20.96		
	RB1#14	21.21	20.85	20.91		
	RB6#0	20.01	19.95	20.07		
	RB6#9	19.98	20.02	20.07		
	RB15#0	20	19.89	20.13		
5MHz QPSK	RB1#0	22.01	21.95	22.12	17.67	33
	RB1#13	22.11	22.1	22.27		
	RB1#24	21.97	21.98	22.19		
	RB15#0	20.95	21	21.17		
	RB15#10	20.99	21.06	21.18		
	RB25#0	20.96	21.01	21.11		
5MHz 16QAM	RB1#0	21.19	20.99	20.94	16.73	33
	RB1#13	21.33	21.1	21.05		
	RB1#24	21.25	21.02	20.96		
	RB15#0	20.01	20.04	20.19		
	RB15#10	19.99	20.08	20.14		
	RB25#0	19.99	20.07	20.2		

10MHz QPSK	RB1#0	22.06	22.07	22.12	17.79	33
	RB1#25	22.07	22.11	22.26		
	RB1#49	22.04	22.1	22.39		
	RB25#0	20.97	20.93	20.97		
	RB25#25	20.98	20.97	21.11		
	RB50#0	20.98	20.99	21.08		
10MHz 16QAM	RB1#0	21.46	21.15	21.08	17.01	33
	RB1#25	21.59	21.21	21.21		
	RB1#49	21.61	21.17	21.18		
	RB25#0	20.07	20.01	20.12		
	RB25#25	20.09	20.07	20.16		
	RB50#0	20.06	20	20.09		
15MHz QPSK	RB1#0	21.98	22.01	22	17.71	33
	RB1#38	22.08	22.11	22.24		
	RB1#74	22.03	22.09	22.31		
	RB36#0	21.06	20.99	21.04		
	RB36#39	21.04	21.06	21.25		
	RB75#0	21.06	21.07	21.19		
15MHz 16QAM	RB1#0	21.01	21.33	21.5	17.07	33
	RB1#38	21.19	21.41	21.67		
	RB1#74	21.16	21.36	21.55		
	RB36#0	20.05	20.01	20.06		
	RB36#39	20.1	20.06	20.25		
	RB75#0	20.07	20.01	20.19		
20MHz QPSK	RB1#0	21.87	21.91	21.88	17.55	33
	RB1#50	22.1	22.14	22.15		
	RB1#99	22.05	22.07	22.15		
	RB50#0	21.01	20.87	21.02		
	RB50#50	21.13	20.95	21.21		
	RB100#0	21.07	20.91	21.11		
20MHz 16QAM	RB1#0	21.09	21.12	21.36	17.06	33
	RB1#50	21.4	21.27	21.66		
	RB1#99	21.3	21.19	21.51		
	RB50#0	20.07	19.9	20.09		
	RB50#50	20.17	19.98	20.25		
	RB100#0	20.11	19.96	20.13		

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	3.86	5.01	4.06	13
	RB100#0	4.17	3.8	4	13
20MHz 16QAM	RB1#0	4.84	5.57	4.96	13
	RB100#0	5.83	5.62	5.62	13
Result:					Pass

FCC §2.1049, §24.238: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	1.108	1.108	1.302	1.29	1.302
1.4MHz 16QAM	1.108	1.096	1.102	1.308	1.278	1.29
3MHz QPSK	2.683	2.683	2.695	2.928	2.928	2.916
3MHz 16QAM	2.683	2.683	2.683	2.928	2.952	2.94
5MHz QPSK	4.491	4.511	4.511	4.94	4.94	4.94
5MHz 16QAM	4.531	4.511	4.531	4.94	4.92	5.18
10MHz QPSK	8.942	8.942	8.902	9.68	9.64	9.56
10MHz 16QAM	8.942	8.942	8.942	9.64	9.6	9.6
15MHz QPSK	13.533	13.473	13.473	14.7	14.7	14.7
15MHz 16QAM	13.533	13.473	13.473	14.76	14.64	14.7
20MHz QPSK	17.964	17.884	17.964	19.28	19.36	19.36
20MHz 16QAM	17.964	17.804	17.964	19.44	19.2	19.36

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

FCC §2.1051, §24.238 (a):Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

FCC §2.1051, §24.238 (a):Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

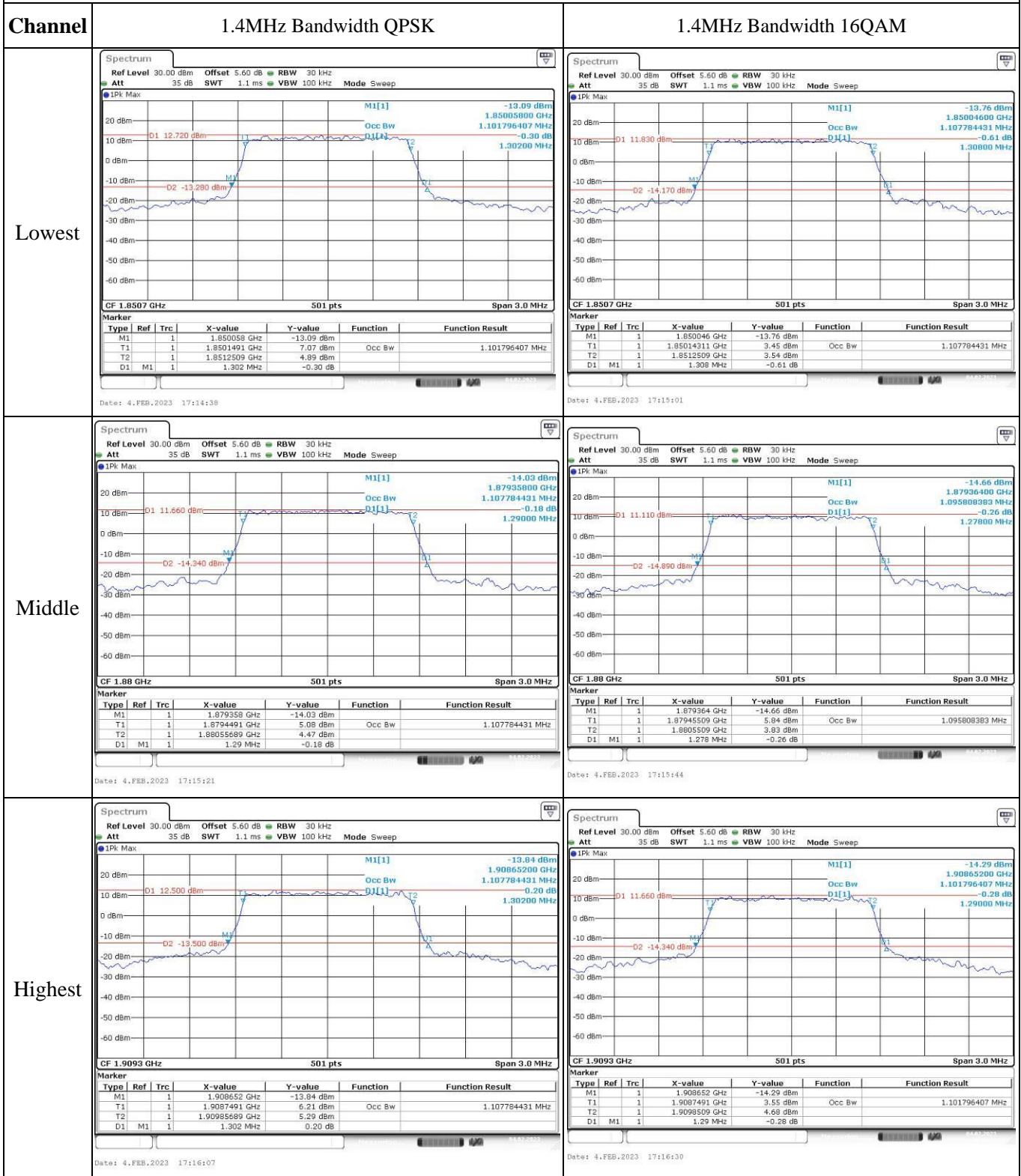
FCC §2.1055, §24.235: Frequency Stability

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	3.89	1850.4052	1850.000	1909.6065	1910.000
	-20	3.89	1850.4089	1850.000	1909.6010	1910.000
	-10	3.89	1850.4034	1850.000	1909.6053	1910.000
	0	3.89	1850.4025	1850.000	1909.6090	1910.000
	10	3.89	1850.4091	1850.000	1909.6029	1910.000
	20	3.89	1850.4058	1850.000	1909.6022	1910.000
	30	3.89	1850.4027	1850.000	1909.6077	1910.000
	40	3.89	1850.4067	1850.000	1909.6078	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.4061	1850.000	1909.6080	1910.000
	20	4.48	1850.4007	1850.000	1909.6007	1910.000
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	3.89	1850.4079	1850.000	1909.6059	1910.000
	-20	3.89	1850.4080	1850.000	1909.6081	1910.000
	-10	3.89	1850.4043	1850.000	1909.6004	1910.000
	0	3.89	1850.4086	1850.000	1909.6026	1910.000
	10	3.89	1850.4044	1850.000	1909.6090	1910.000
	20	3.89	1850.4058	1850.000	1909.6022	1910.000
	30	3.89	1850.4058	1850.000	1909.6033	1910.000
	40	3.89	1850.4065	1850.000	1909.6021	1910.000
Frequency Stability vs. Voltage	20	3.45	1850.4032	1850.000	1909.6022	1910.000
	20	4.48	1850.4081	1850.000	1909.6030	1910.000
Result:					Pass	

Test Plots(Note: The 5.6dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer):

Occupied Bandwidth



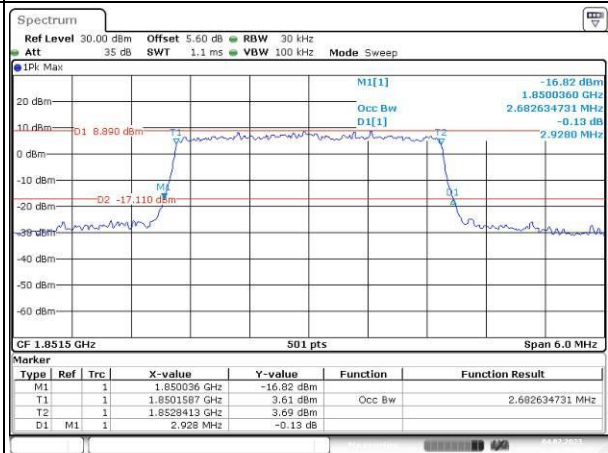
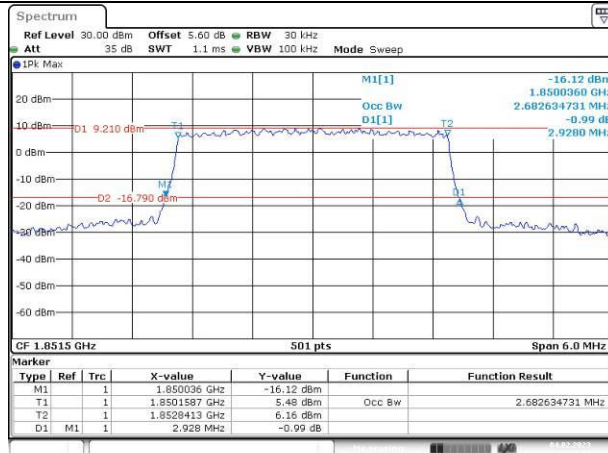
Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

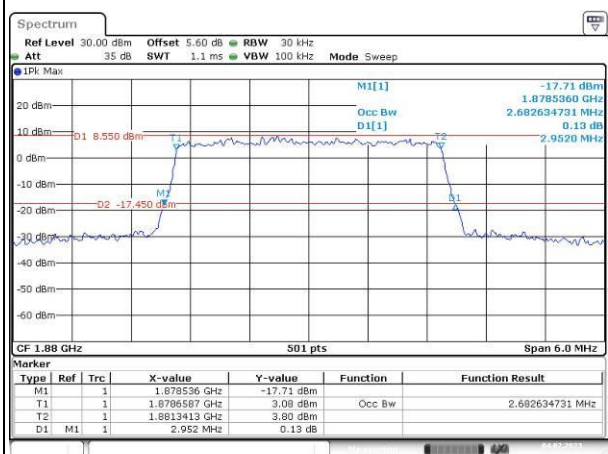
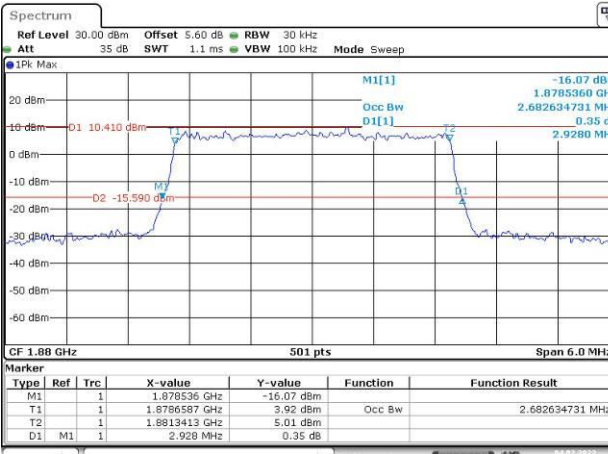
Lowest



Date: 4.FEB.2023 17:17:34

Date: 4.FEB.2023 17:16:00

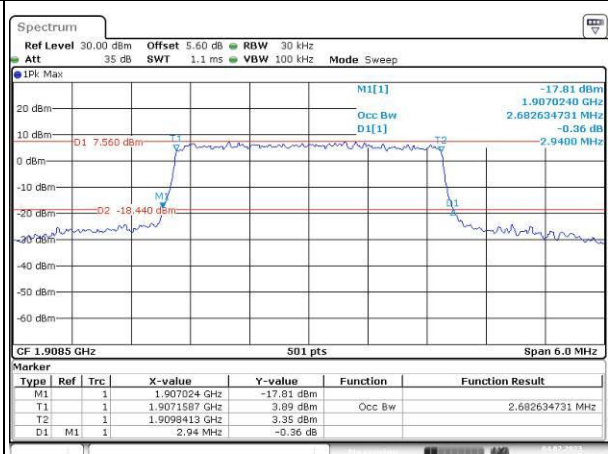
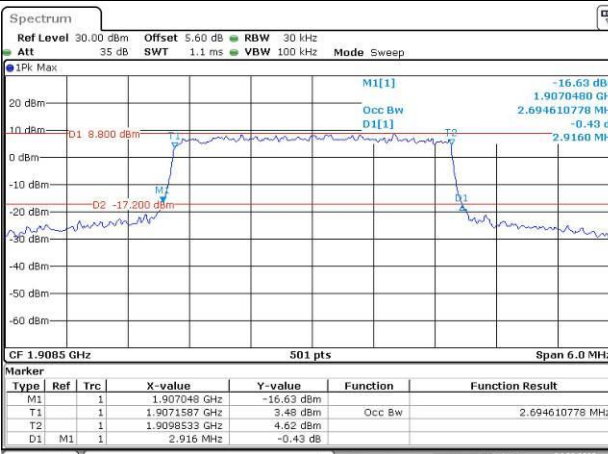
Middle



Date: 4.FEB.2023 17:18:24

Date: 4.FEB.2023 17:18:46

Highest



Date: 4.FEB.2023 17:19:13

Date: 4.FEB.2023 17:19:36

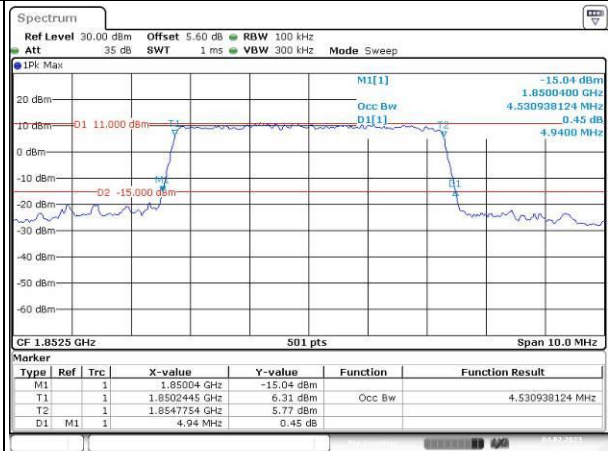
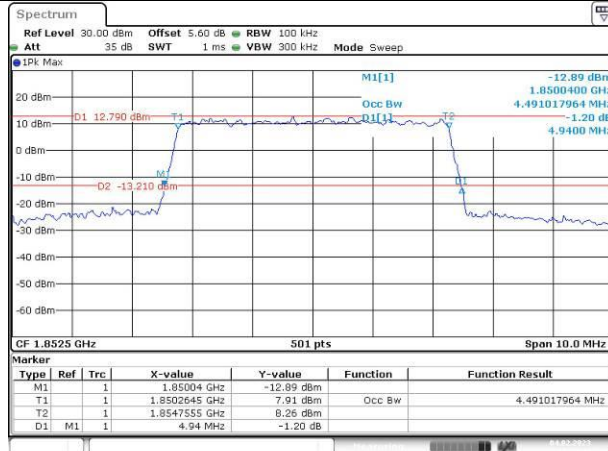
Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

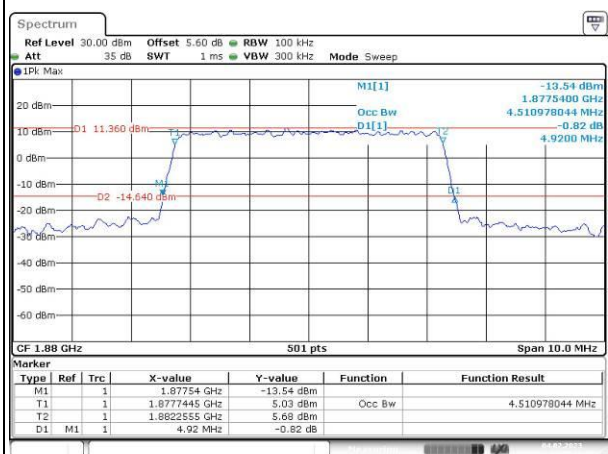
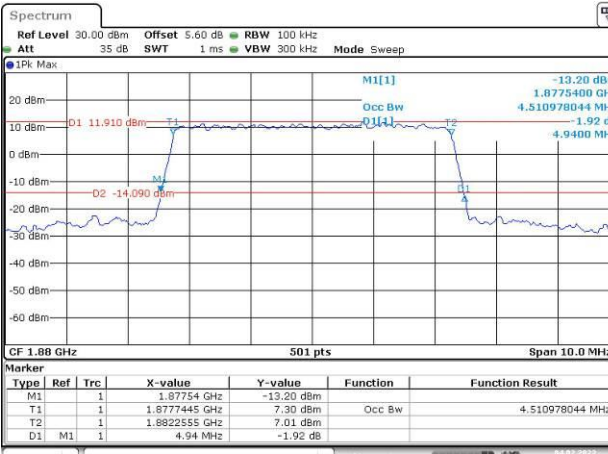
Lowest



Date: 4.FEB.2023 17:20:48

Date: 4.FEB.2023 17:21:22

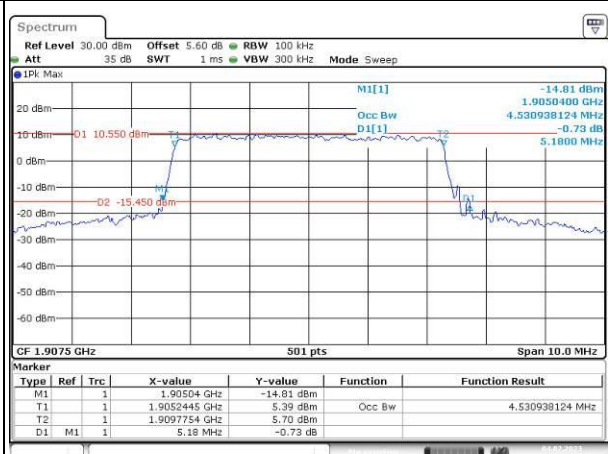
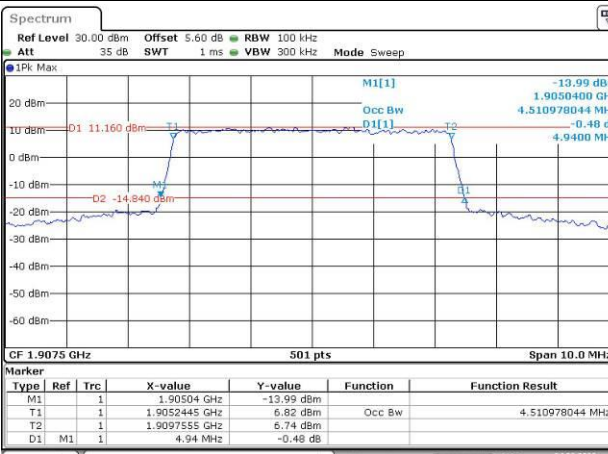
Middle



Date: 4.FEB.2023 17:21:47

Date: 4.FEB.2023 17:22:17

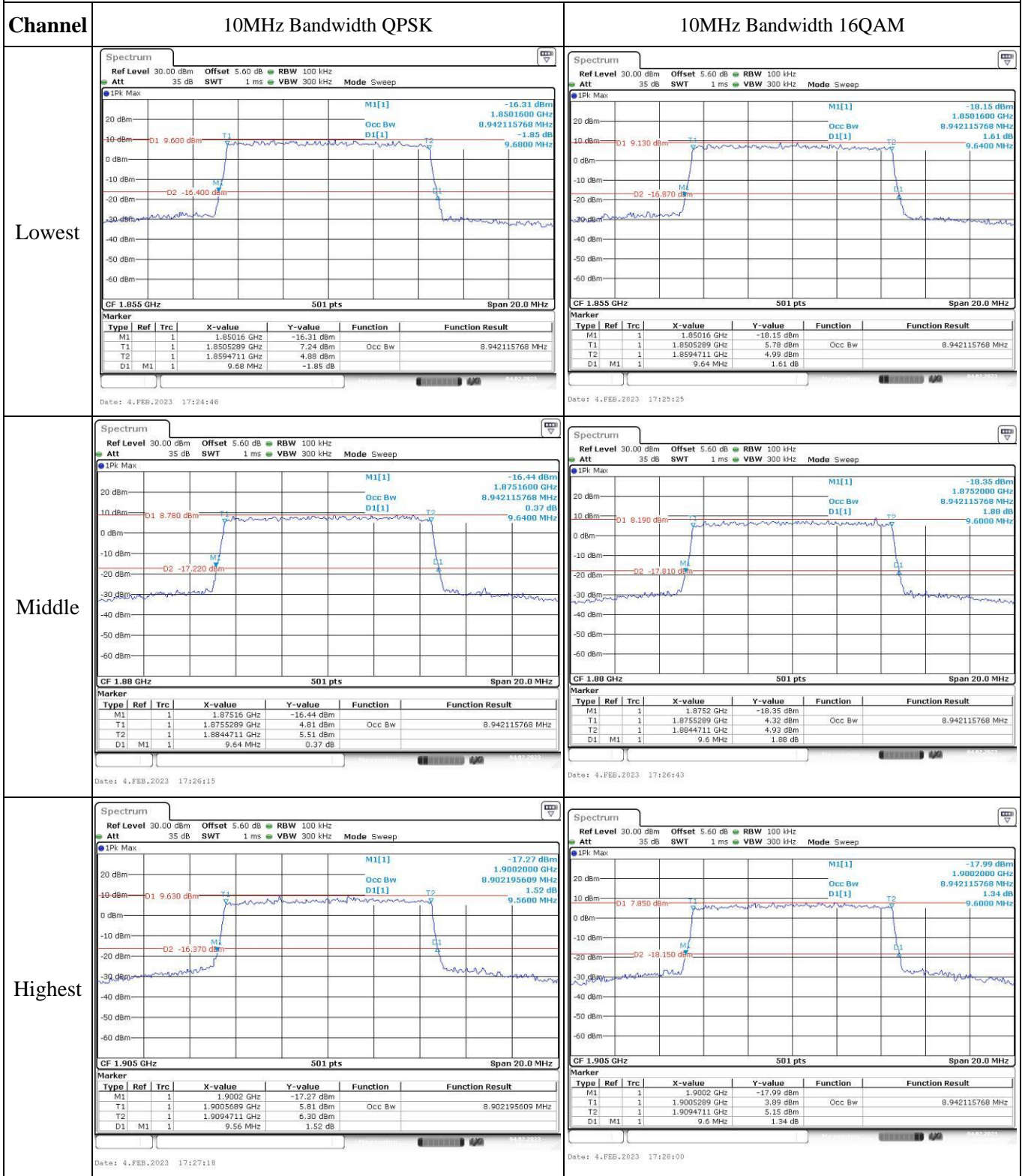
Highest



Date: 4.FEB.2023 17:22:53

Date: 4.FEB.2023 17:23:27

Occupied Bandwidth



Occupied Bandwidth

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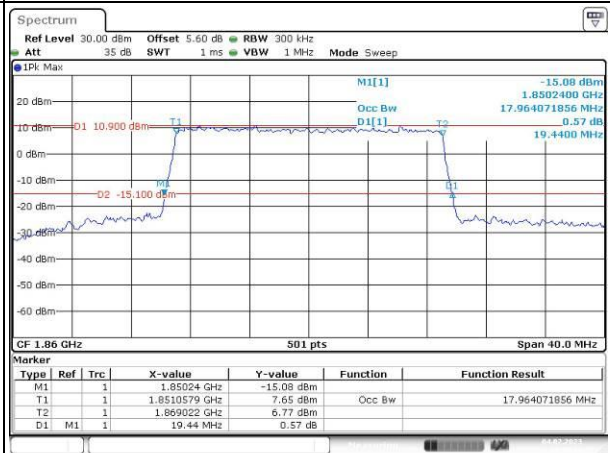
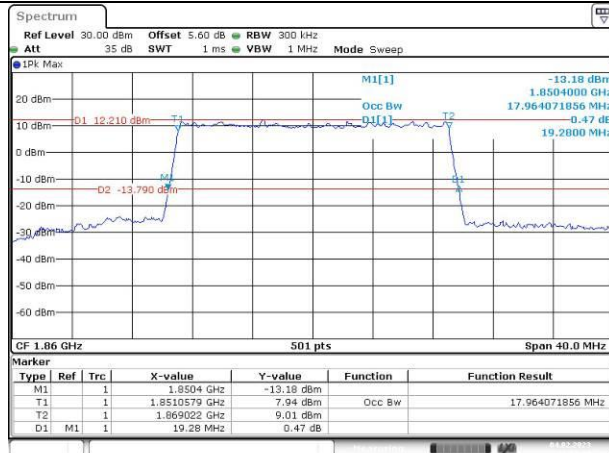
Occupied Bandwidth

Channel

20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

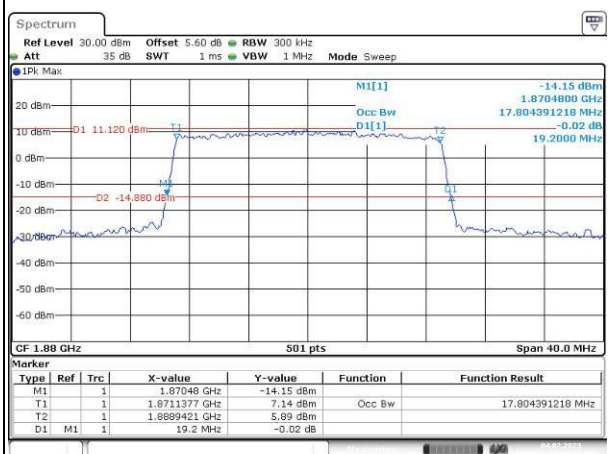
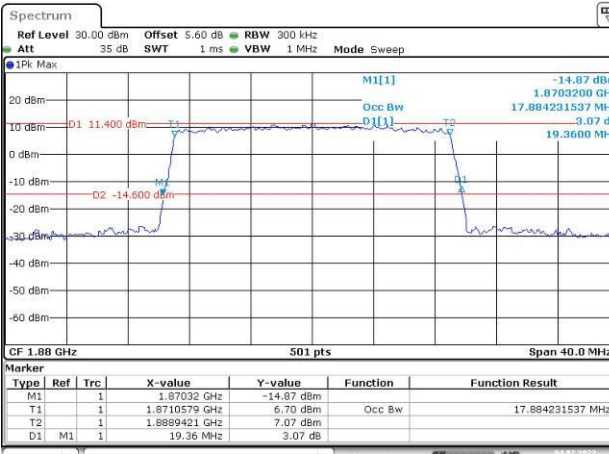
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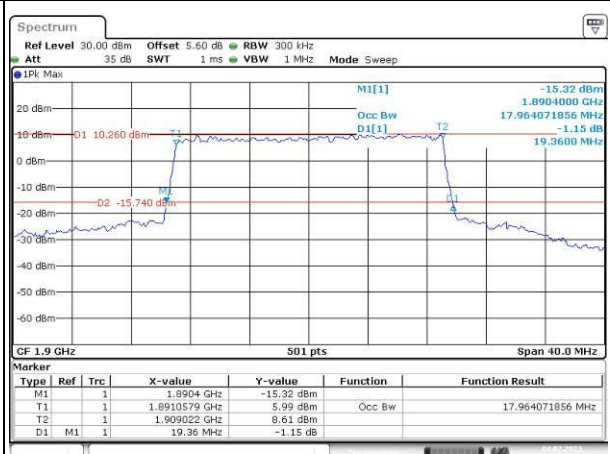
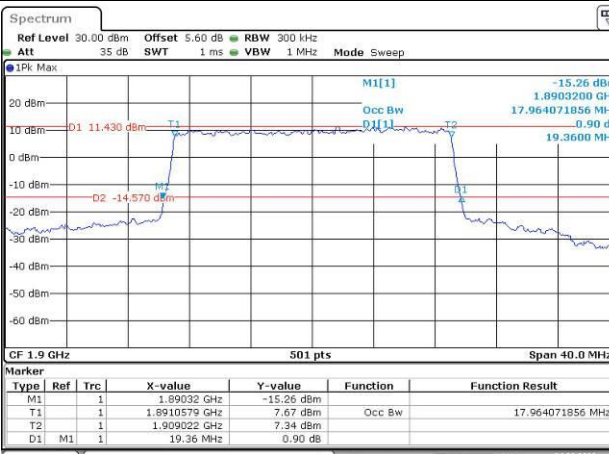
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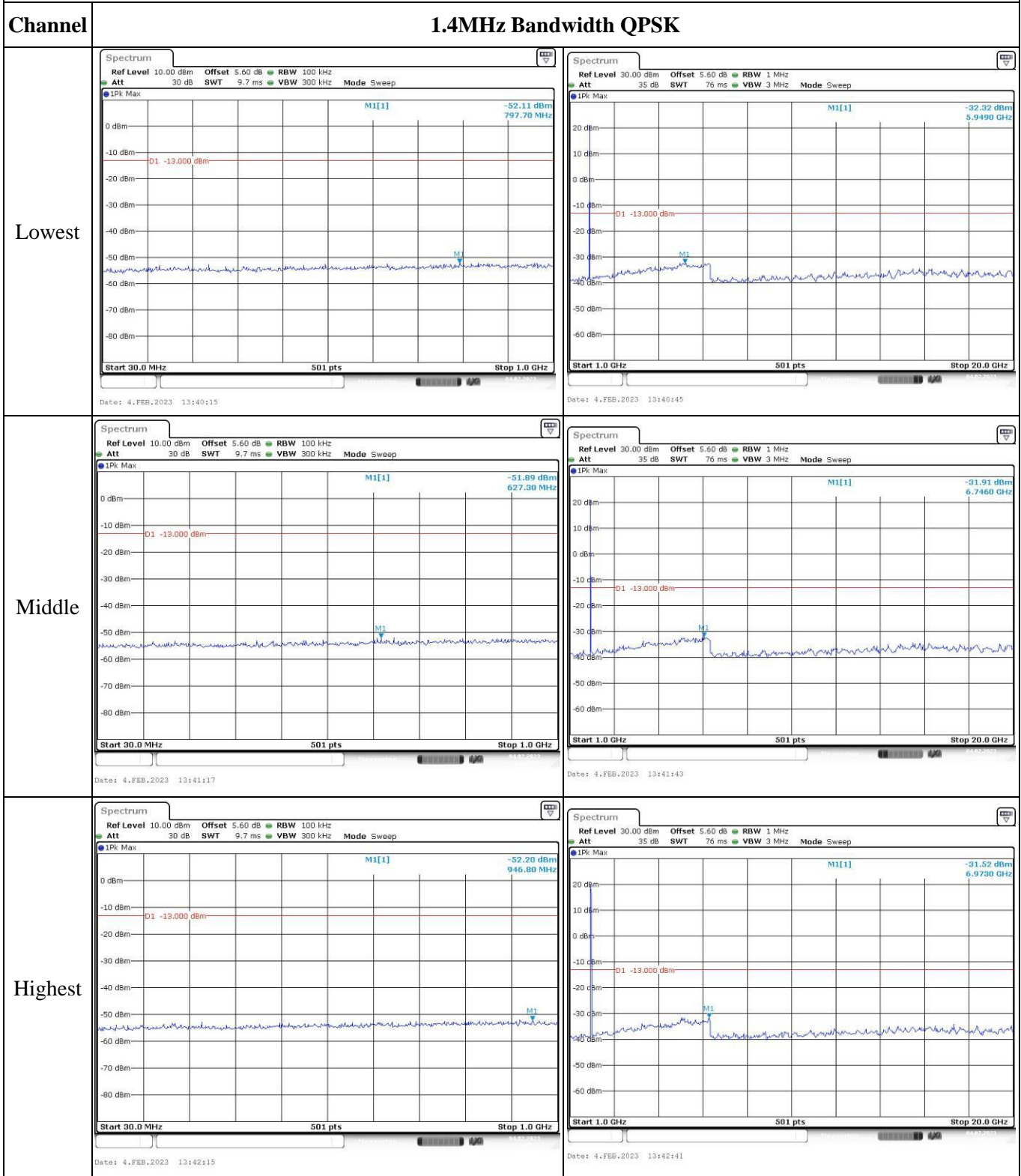
Highest



Date: 4.FEB.2023 17:35:03

Date: 4.FEB.2023 17:35:33

Spurious Emissions at Antenna Terminal

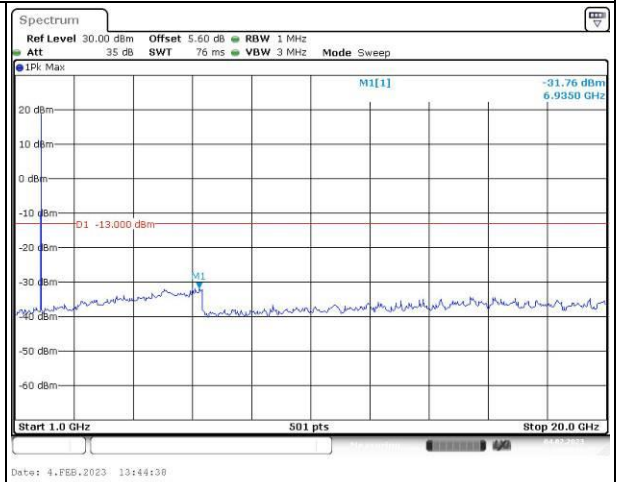
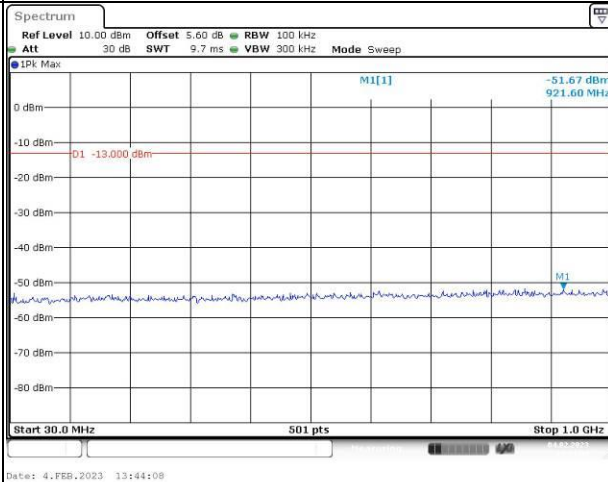


Spurious Emissions at Antenna Terminal

Channel

3MHz Bandwidth QPSK

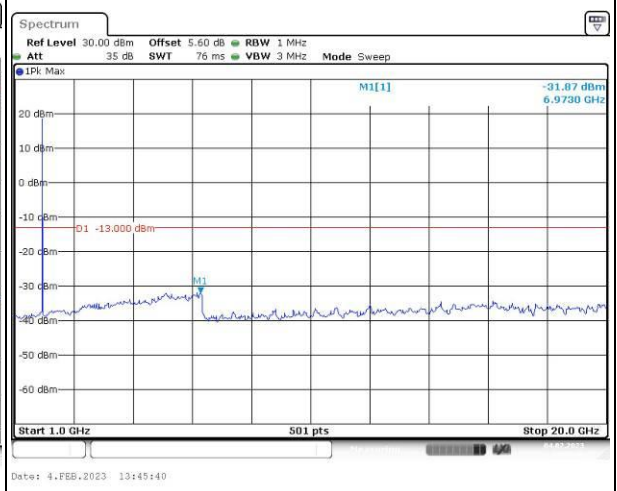
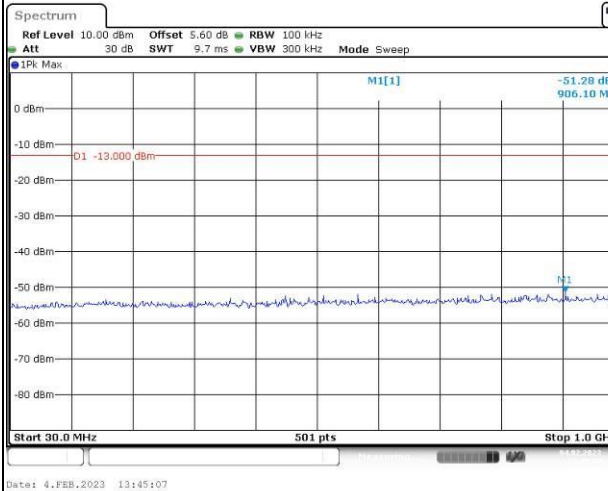
Lowest



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Date: 4.FEB.2023 13:44:30

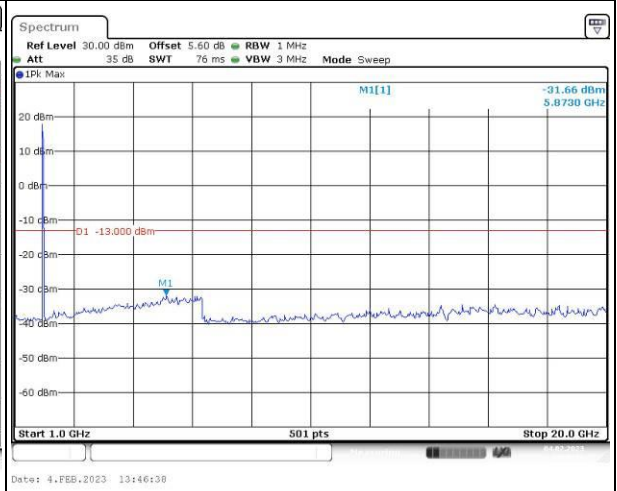
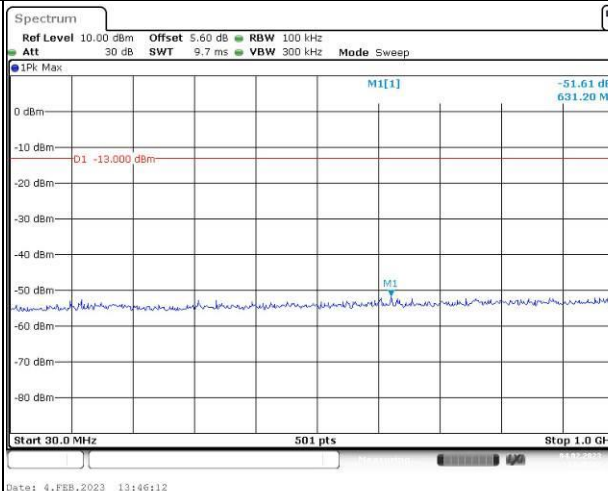
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Date: 4.FEB.2023 13:45:40

Highest



Date: 4.FEB.2023 13:46:12

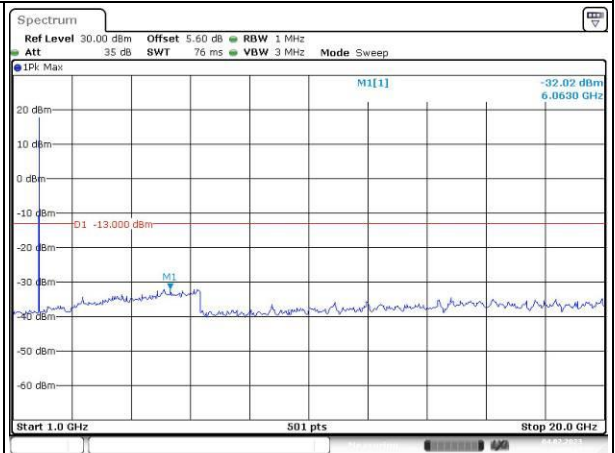
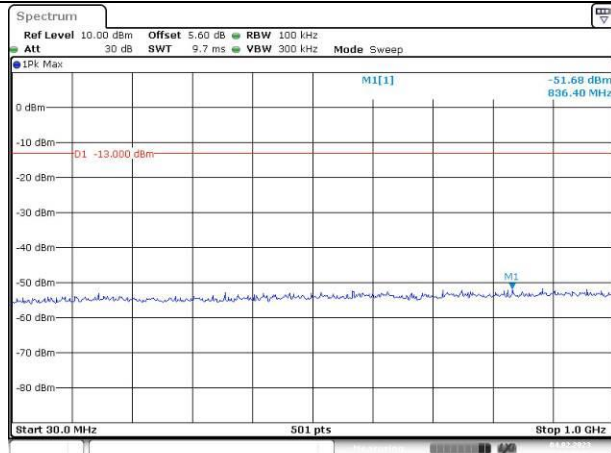
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Spurious Emissions at Antenna Terminal

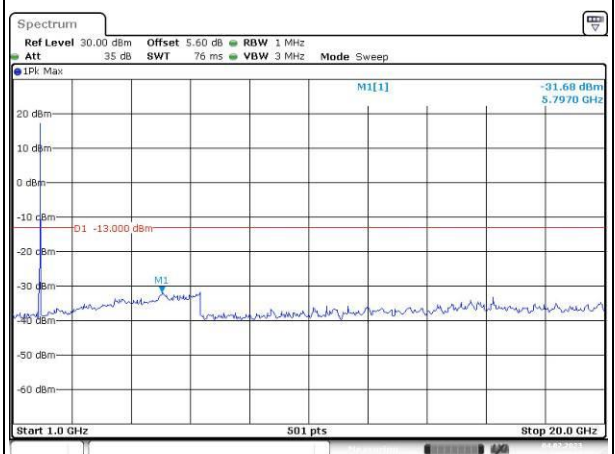
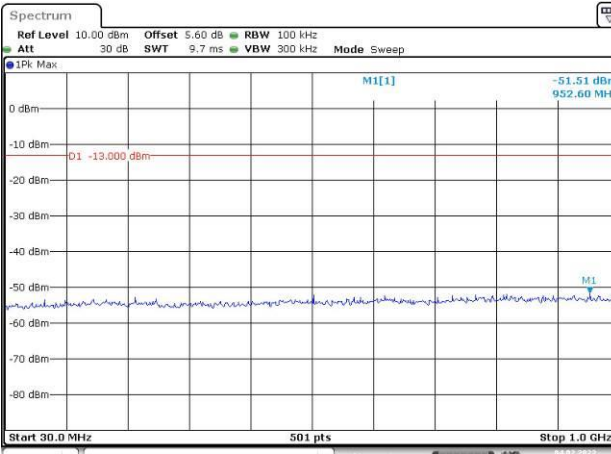
Channel

5MHz Bandwidth QPSK

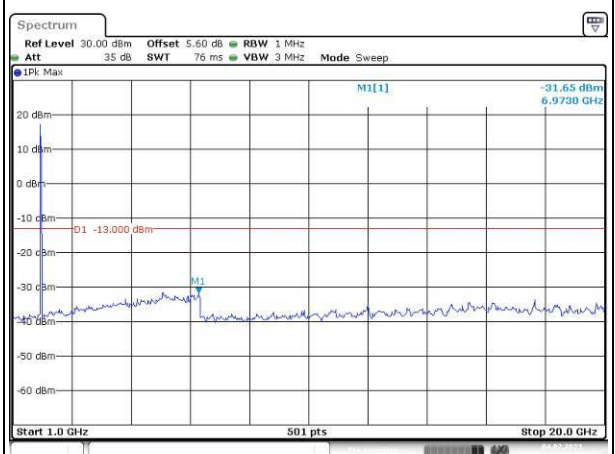
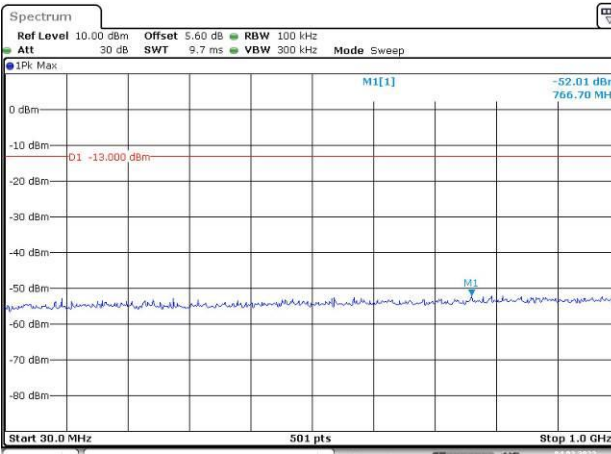
Lowest



Middle



Highest

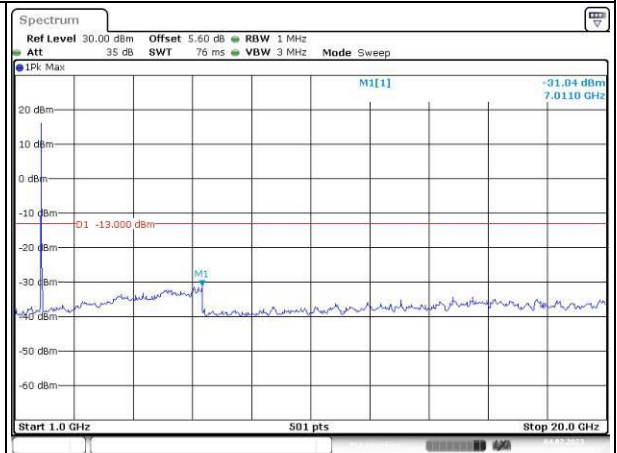
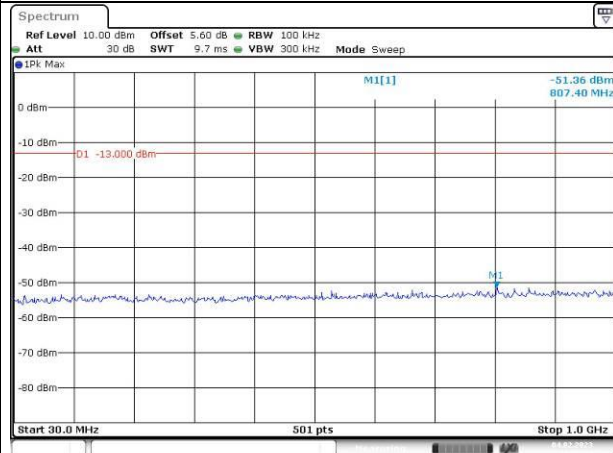


Spurious Emissions at Antenna Terminal

Channel

10MHz Bandwidth QPSK

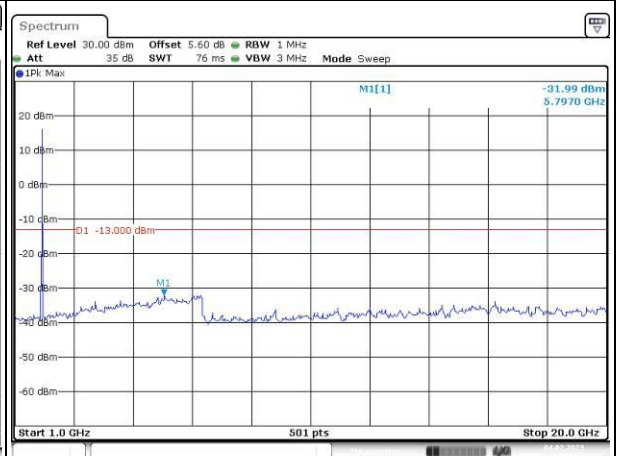
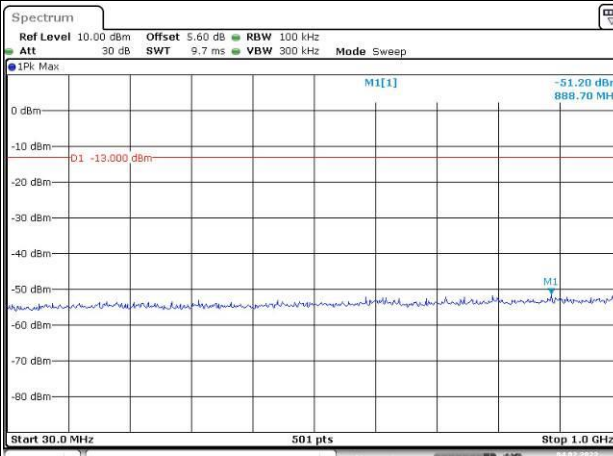
Lowest



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Date: 4.FEB.2023 13:52:50

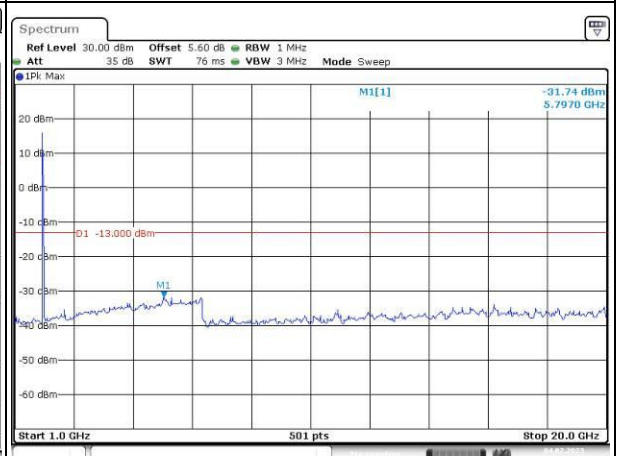
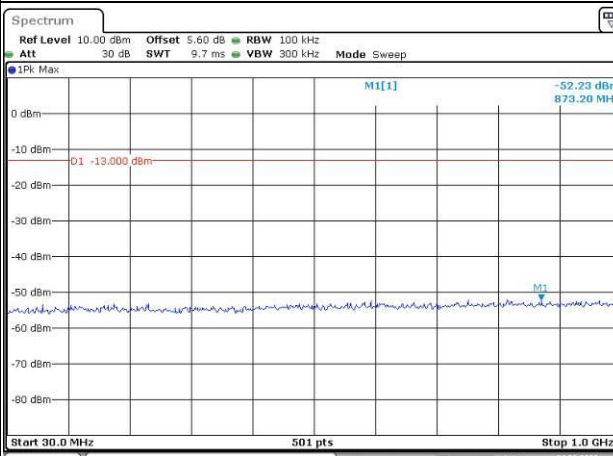
Middle



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Date: 4.FEB.2023 13:53:40

Highest



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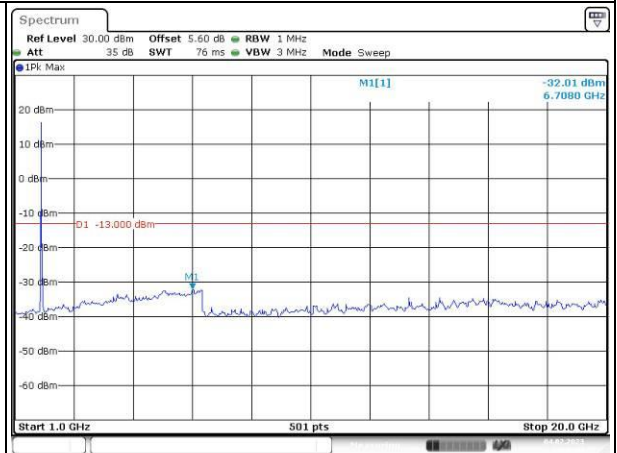
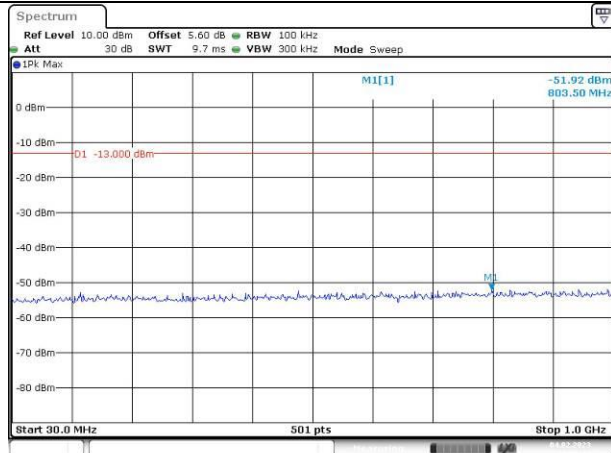
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Spurious Emissions at Antenna Terminal

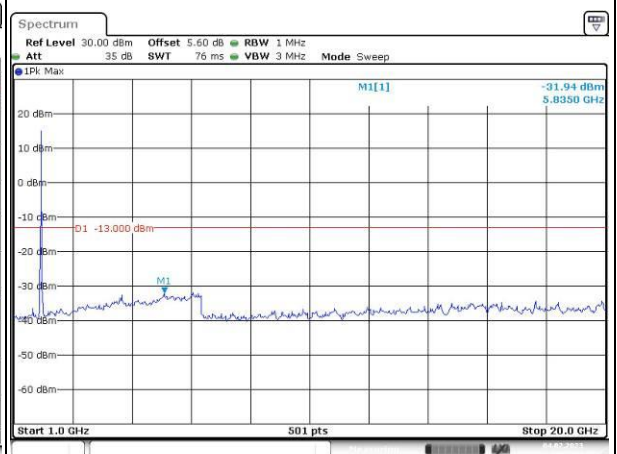
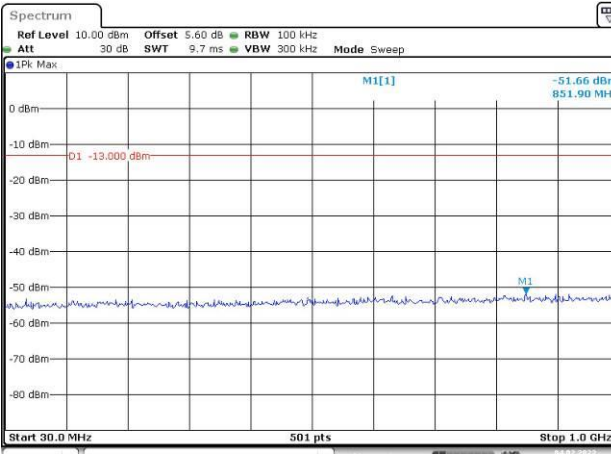
Channel

15MHz Bandwidth QPSK

Lowest



Middle



Highest

