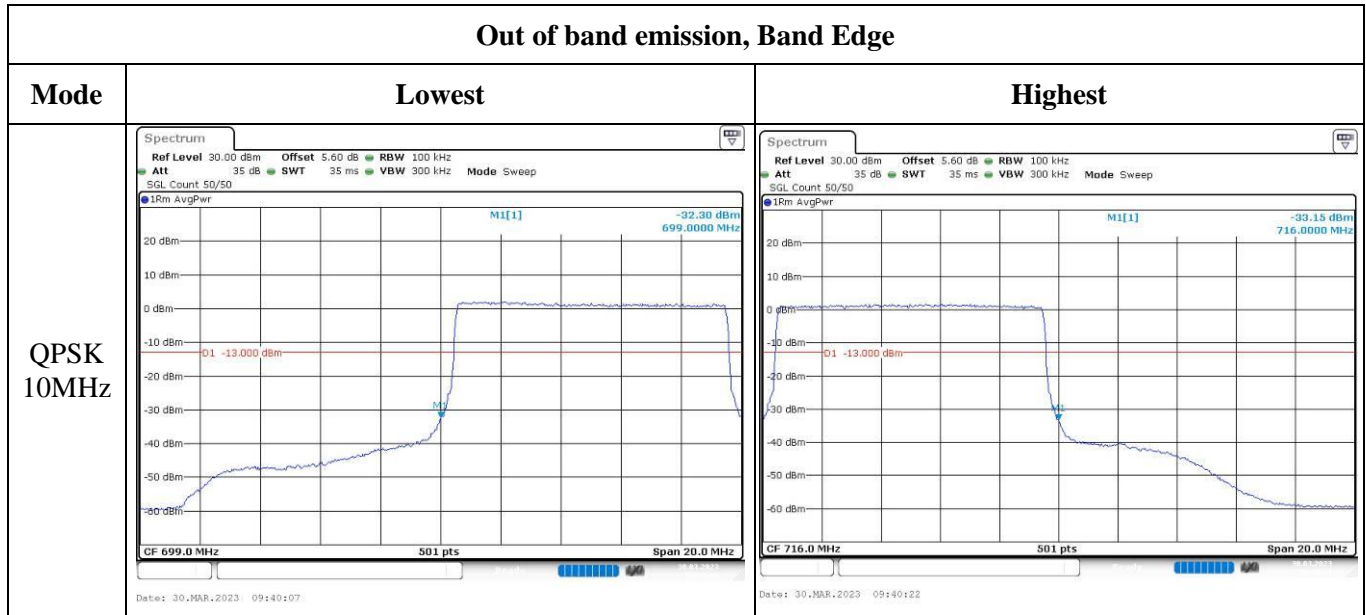


Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz</p>		
<p>QPSK 3MHz</p>		
<p>QPSK 5MHz</p>		

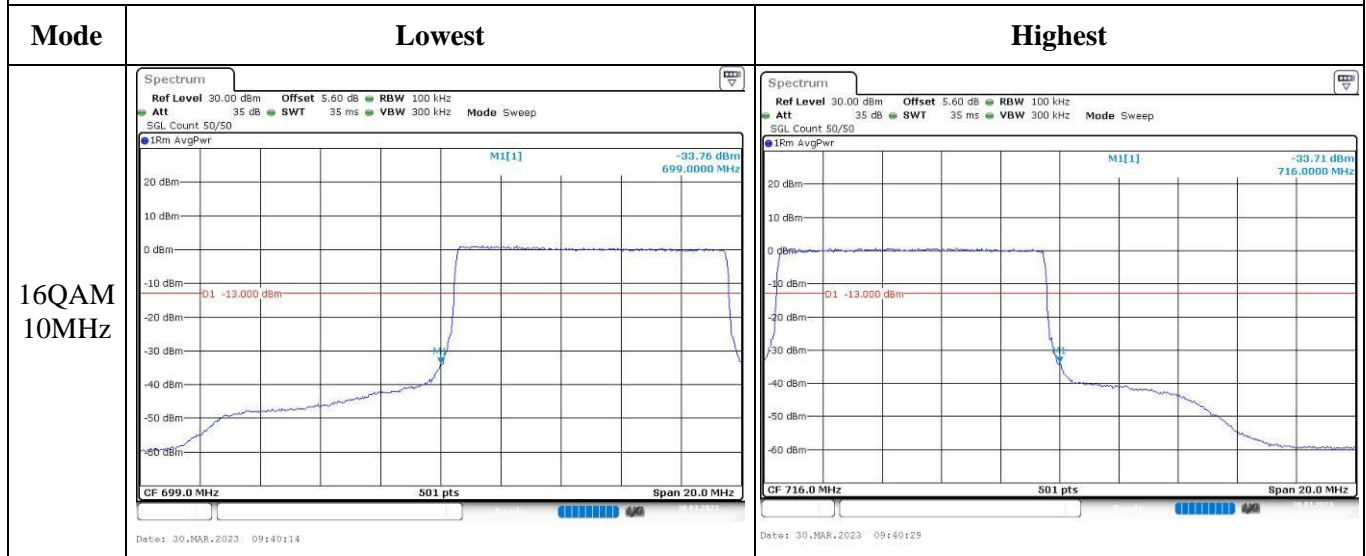
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge



4.11 Antenna Port Test Data and Results for LTE Band 13

Serial Number:	2205	Test Date:	2023/3/22~2023/4/14
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1~25.3	Relative Humidity: (%)	41~56	ATM Pressure: (kPa)	100.1~101.6
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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	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
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)
5MHz	779.5	/	784.5
10MHz	/	782	/

Test Data:

FCC §2.1046; § 27.50(c) (10)						
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		
5MHz QPSK	RB1#0	22.47	/	22.48	19.82	34.77
	RB1#13	22.63	/	22.58		
	RB1#24	22.56	/	22.5		
	RB15#0	21.62	/	21.69		
	RB15#10	21.73	/	21.63		
	RB25#0	21.72	/	21.71		
5MHz 16QAM	RB1#0	21.92	/	21.5	19.24	34.77
	RB1#13	22.05	/	21.56		
	RB1#24	22	/	21.48		
	RB15#0	20.72	/	20.86		
	RB15#10	20.81	/	20.82		
	RB25#0	20.89	/	20.89		
10MHz QPSK	RB1#0	/	22.81	/	20	34.77
	RB1#25	/	22.72	/		
	RB1#49	/	22.64	/		
	RB25#0	/	21.67	/		
	RB25#25	/	21.8	/		
	RB50#0	/	21.81	/		
10MHz 16QAM	RB1#0	/	21.85	/	19.18	34.77
	RB1#25	/	21.99	/		
	RB1#49	/	21.86	/		
	RB25#0	/	20.91	/		
	RB25#25	/	20.98	/		
	RB50#0	/	20.96	/		

Note:

ERP= Conducted Power(dBm) - Lc(dB) + G_T(dBd)G_T(dBd)=G_T(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	/	4.61	/	13
	RB50#0	/	5.57	/	13
10MHz 16QAM	RB1#0	/	5.57	/	13
	RB50#0	/	6.55	/	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	4.531	/	4.551	5.3	/	5.32
5MHz 16QAM	4.551	/	4.531	5.32	/	5.22
10MHz QPSK	/	8.982	/	/	9.92	/
10MHz 16QAM	/	8.982	/	/	10.04	/
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.

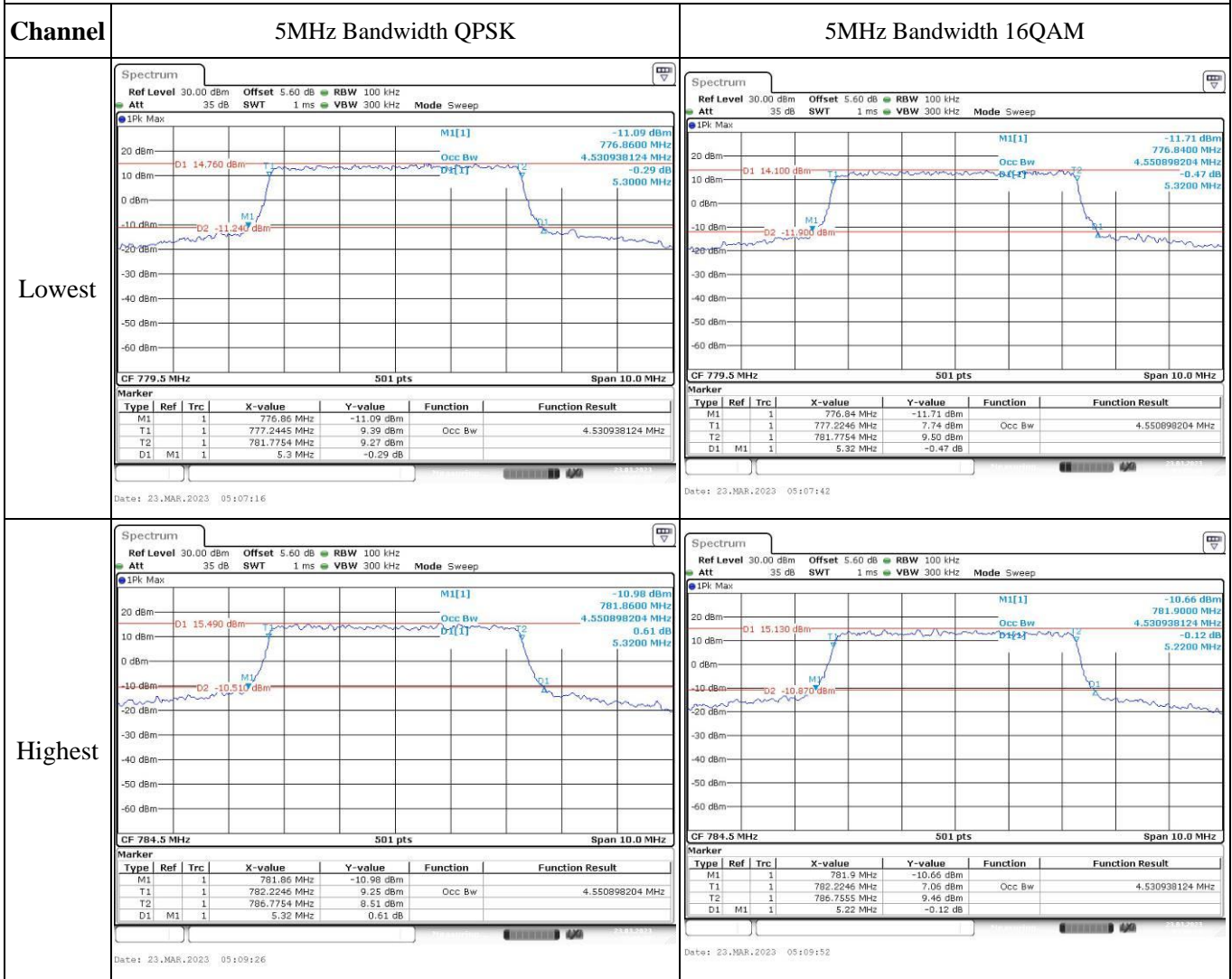
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	10M 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	3.8	777.695	777.00	786.703	787.00
	-20	3.8	777.690	777.00	786.647	787.00
	-10	3.8	777.654	777.00	786.600	787.00
	0	3.8	777.617	777.00	786.569	787.00
	10	3.8	777.586	777.00	786.534	787.00
	20	3.8	777.529	777.00	786.511	787.00
	30	3.8	777.526	777.00	786.492	787.00
	40	3.8	777.496	777.00	786.481	787.00
Frequency Stability vs. Voltage	20	3.3	777.559	777.00	786.511	787.00
	20	4.3	777.524	777.00	786.501	787.00
					Result:	Pass

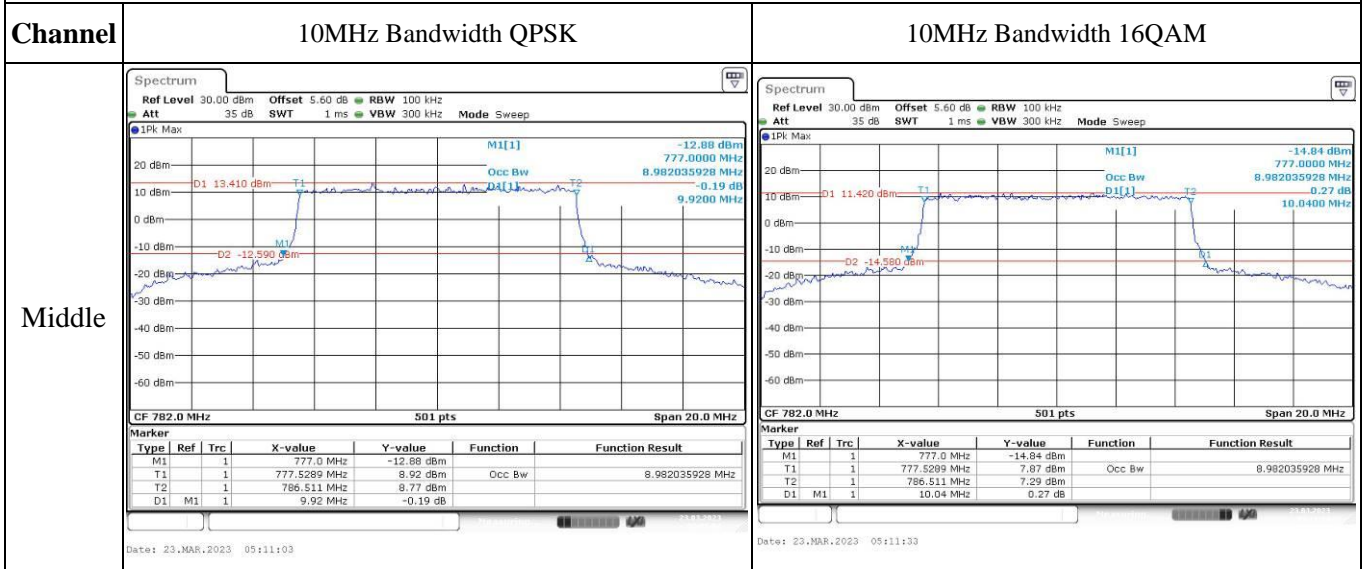
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	777.742	777.00	786.696	787.00
	-20	3.8	777.693	777.00	786.674	787.00
	-10	3.8	777.645	777.00	786.608	787.00
	0	3.8	777.595	777.00	786.578	787.00
	10	3.8	777.568	777.00	786.524	787.00
	20	3.8	777.529	777.00	786.511	787.00
	30	3.8	777.510	777.00	786.481	787.00
	40	3.8	777.510	777.00	786.460	787.00
Frequency Stability vs. Voltage	20	3.3	777.515	777.00	786.525	787.00
	20	4.3	777.512	777.00	786.471	787.00
					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



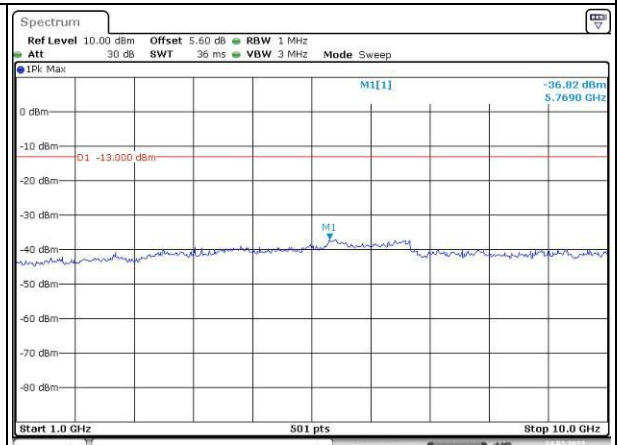
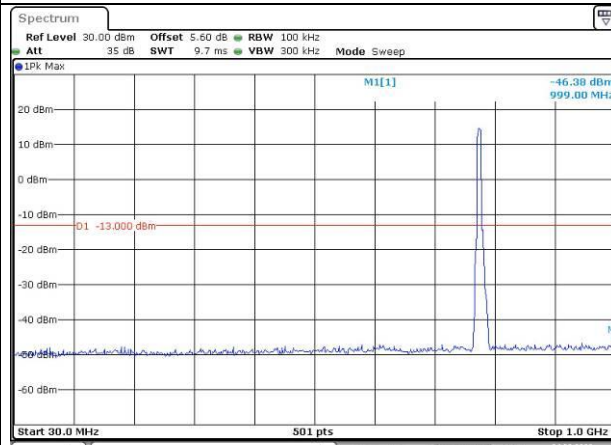
Occupied Bandwidth



Spurious Emissions at Antenna Terminal

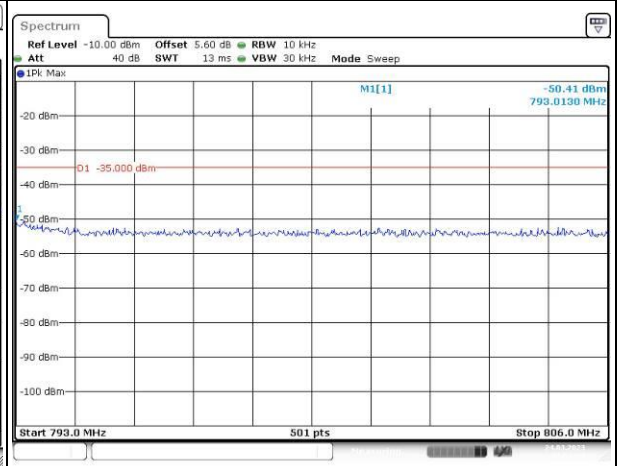
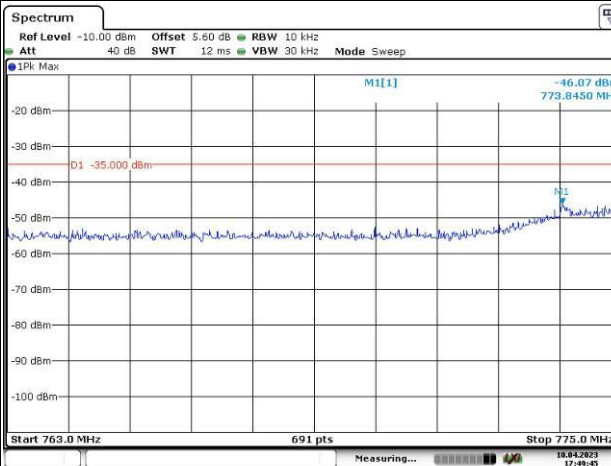
Channel

5MHz Bandwidth QPSK



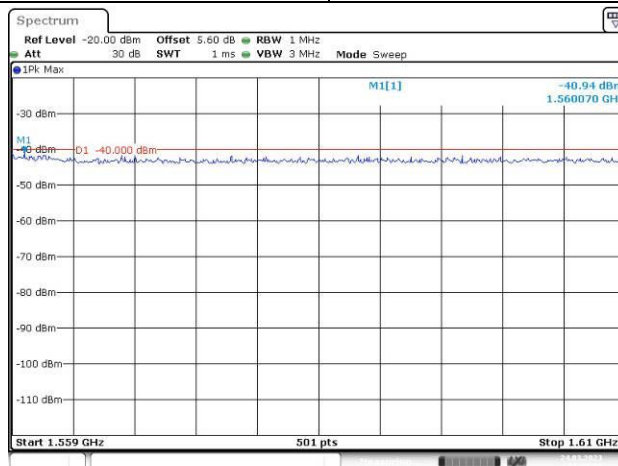
Date: 24.MAR.2023 01:50:17

Date: 24.MAR.2023 01:50:47



Date: 10.APR.2023 17:49:46

Date: 24.MAR.2023 01:51:57



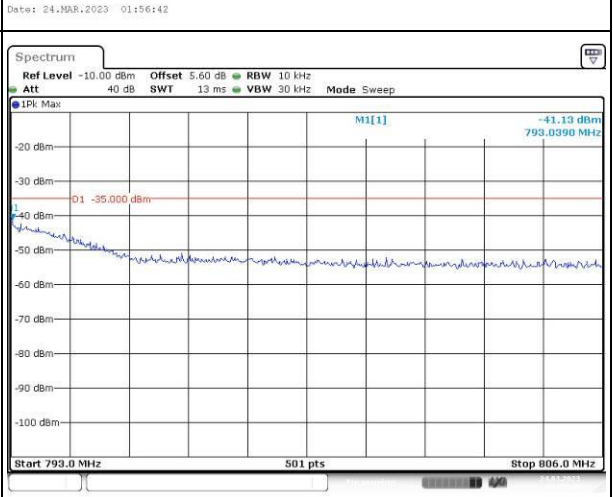
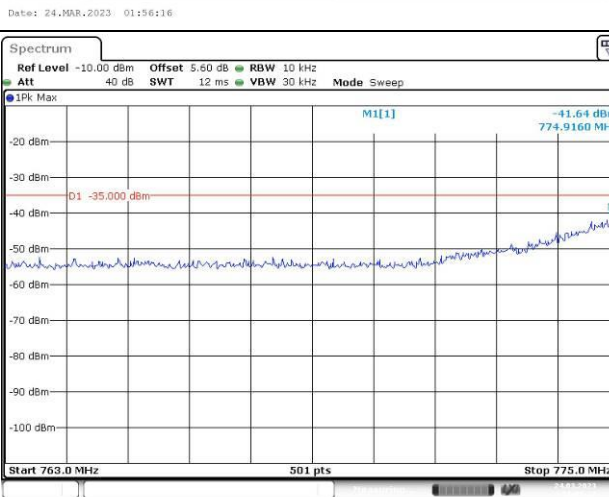
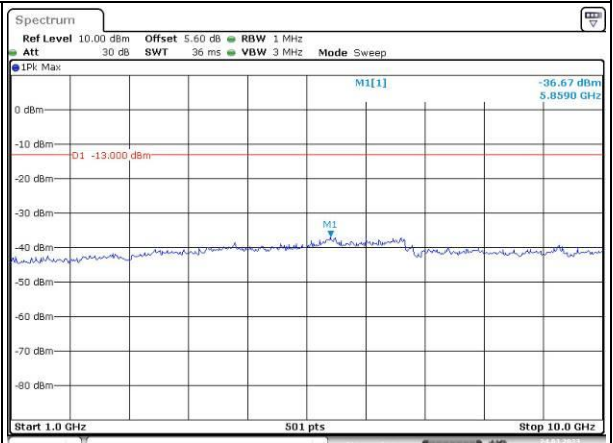
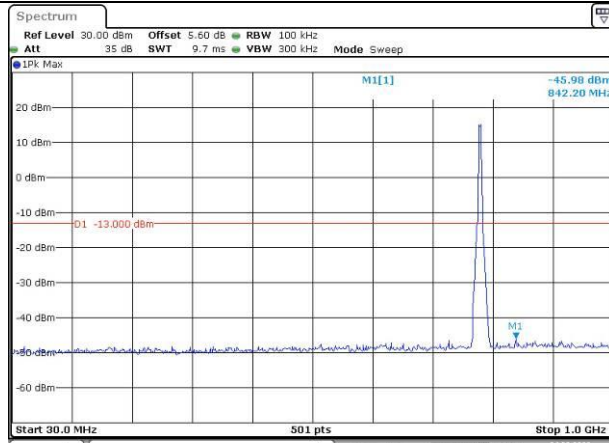
Date: 24.MAR.2023 01:52:34

Lowest

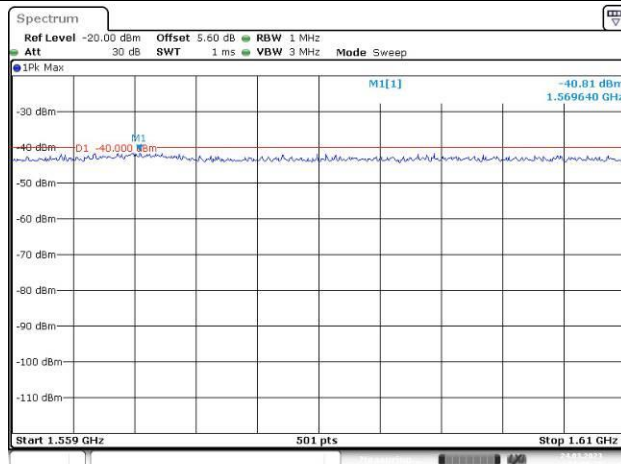
Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK



Highest

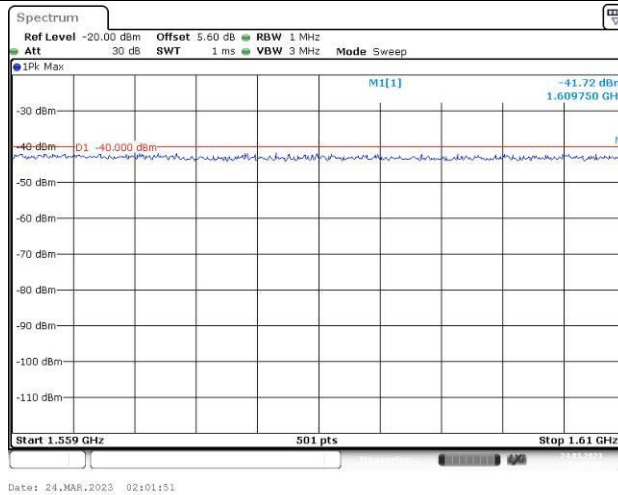
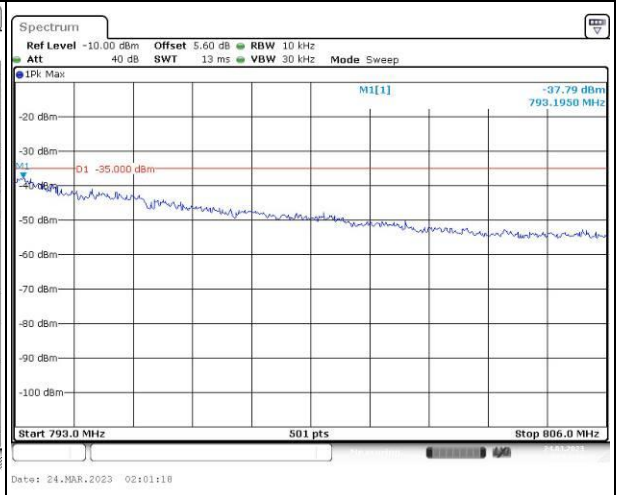
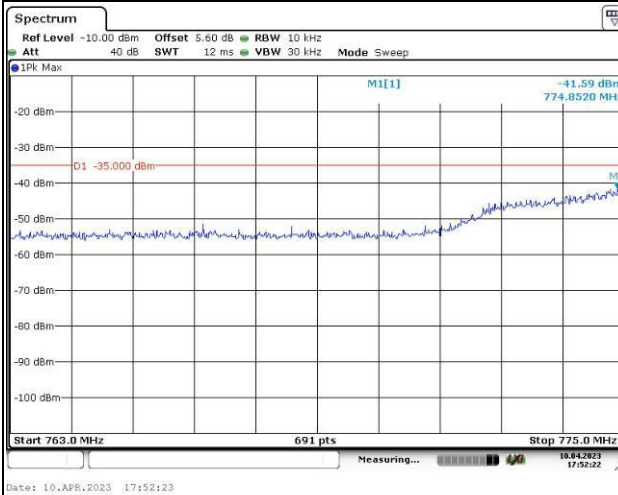
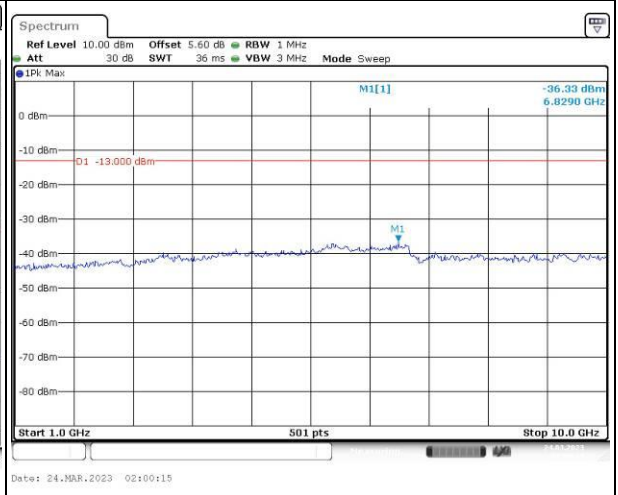
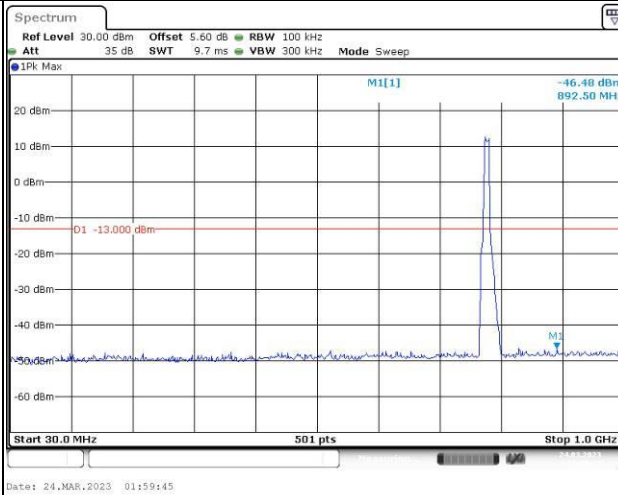


Spurious Emissions at Antenna Terminal

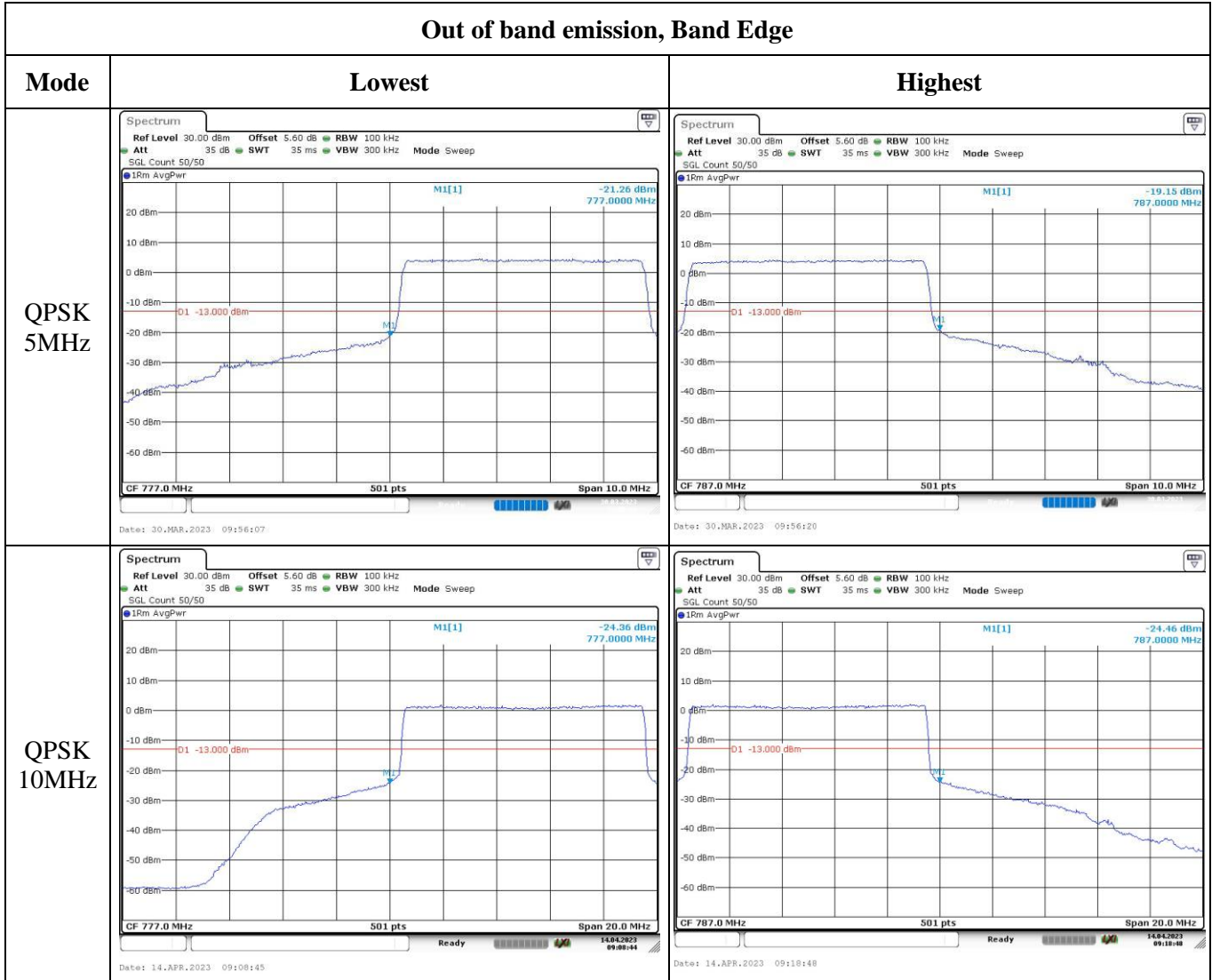
Channel

10MHz Bandwidth QPSK

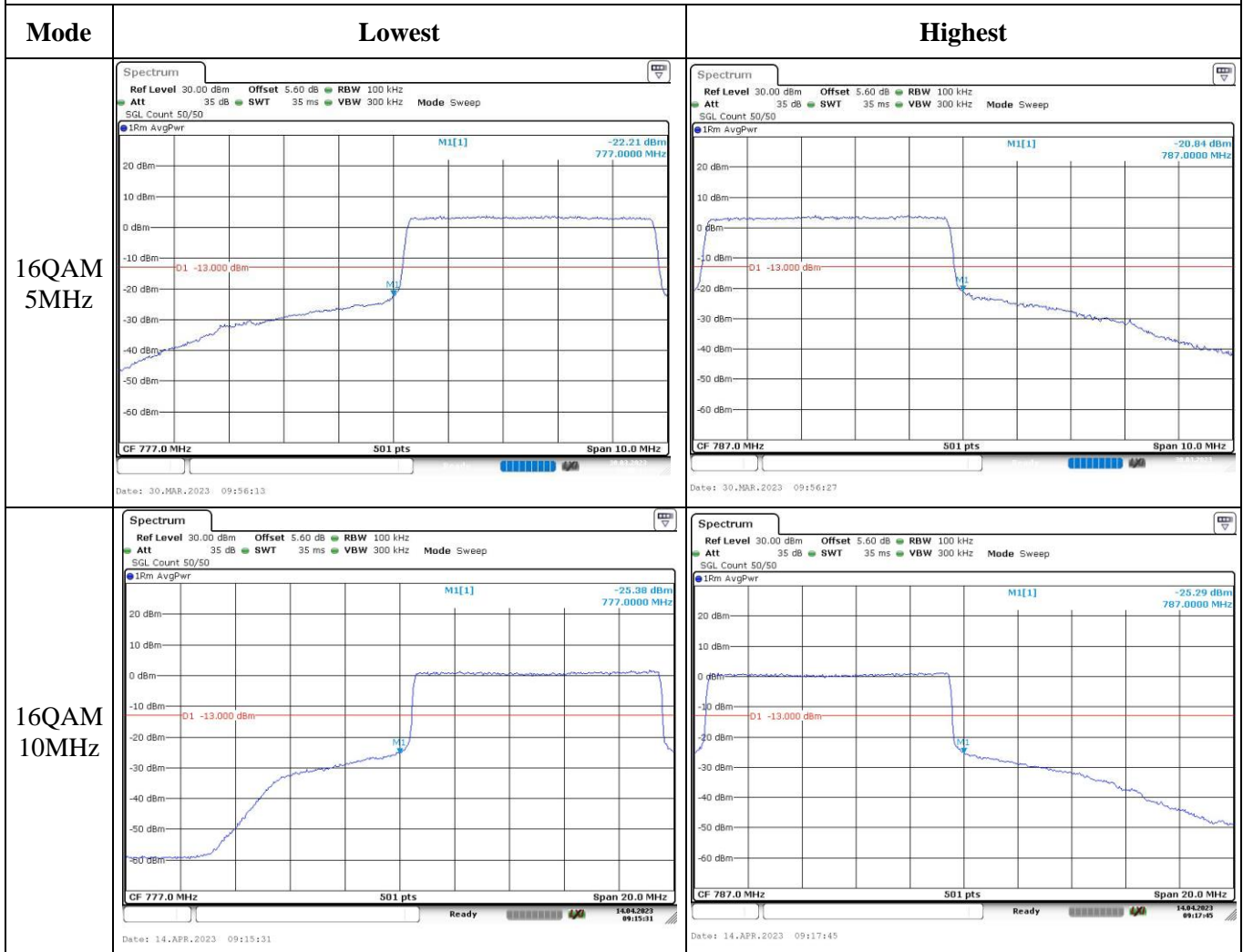
Middle



Out of band emission, Band Edge



Out of band emission, Band Edge



4.12 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	2205	Test Date:	2023/3/23~2023/3/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1~25.3	Relative Humidity: (%)	41~56	ATM Pressure: (kPa)	100.1~101.6
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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	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
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)
5MHz	706.5	710	713.5
10MHz	709	710	711

Test Data:**FCC §2.1046; § 27.50(c) (10)****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		
5MHz QPSK	RB1#0	22.65	22.59	22.61	19.89	34.77
	RB1#13	22.8	22.73	22.75		
	RB1#24	22.66	22.66	22.6		
	RB15#0	21.73	21.74	21.64		
	RB15#10	21.72	21.71	21.72		
	RB25#0	21.71	21.71	21.66		
5MHz 16QAM	RB1#0	21.9	21.62	21.45	19.11	34.77
	RB1#13	22.02	21.79	21.6		
	RB1#24	21.92	21.68	21.4		
	RB15#0	20.77	20.78	20.73		
	RB15#10	20.74	20.78	20.76		
	RB25#0	20.74	20.74	20.72		
10MHz QPSK	RB1#0	22.9	22.67	22.67	20.07	34.77
	RB1#25	22.98	22.83	22.87		
	RB1#49	22.78	22.76	22.74		
	RB25#0	21.75	21.76	21.74		
	RB25#25	21.77	21.79	21.79		
	RB50#0	21.78	21.78	21.78		
10MHz 16QAM	RB1#0	21.68	22.15	21.78	19.47	34.77
	RB1#25	21.85	22.38	21.97		
	RB1#49	21.67	22.18	21.77		
	RB25#0	20.9	20.86	20.8		
	RB25#25	20.88	20.84	20.83		
	RB50#0	20.86	20.82	20.8		

Note:

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

Gr(dBd)=Gr(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	5.25	5.22	5.51	13
	RB50#0	5.3	5.25	5.19	13
10MHz 16QAM	RB1#0	6.17	5.83	6.41	13
	RB50#0	6.2	6.17	6.09	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	4.511	4.511	4.531	5.18	5.14	5.2
5MHz 16QAM	4.551	4.531	4.511	5.2	5.2	5.14
10MHz QPSK	8.982	8.982	8.982	9.96	10.12	9.84
10MHz 16QAM	8.982	8.982	8.982	9.96	9.84	9.92
Note: The test plots please refer to the Plots of Occupied Bandwidth						

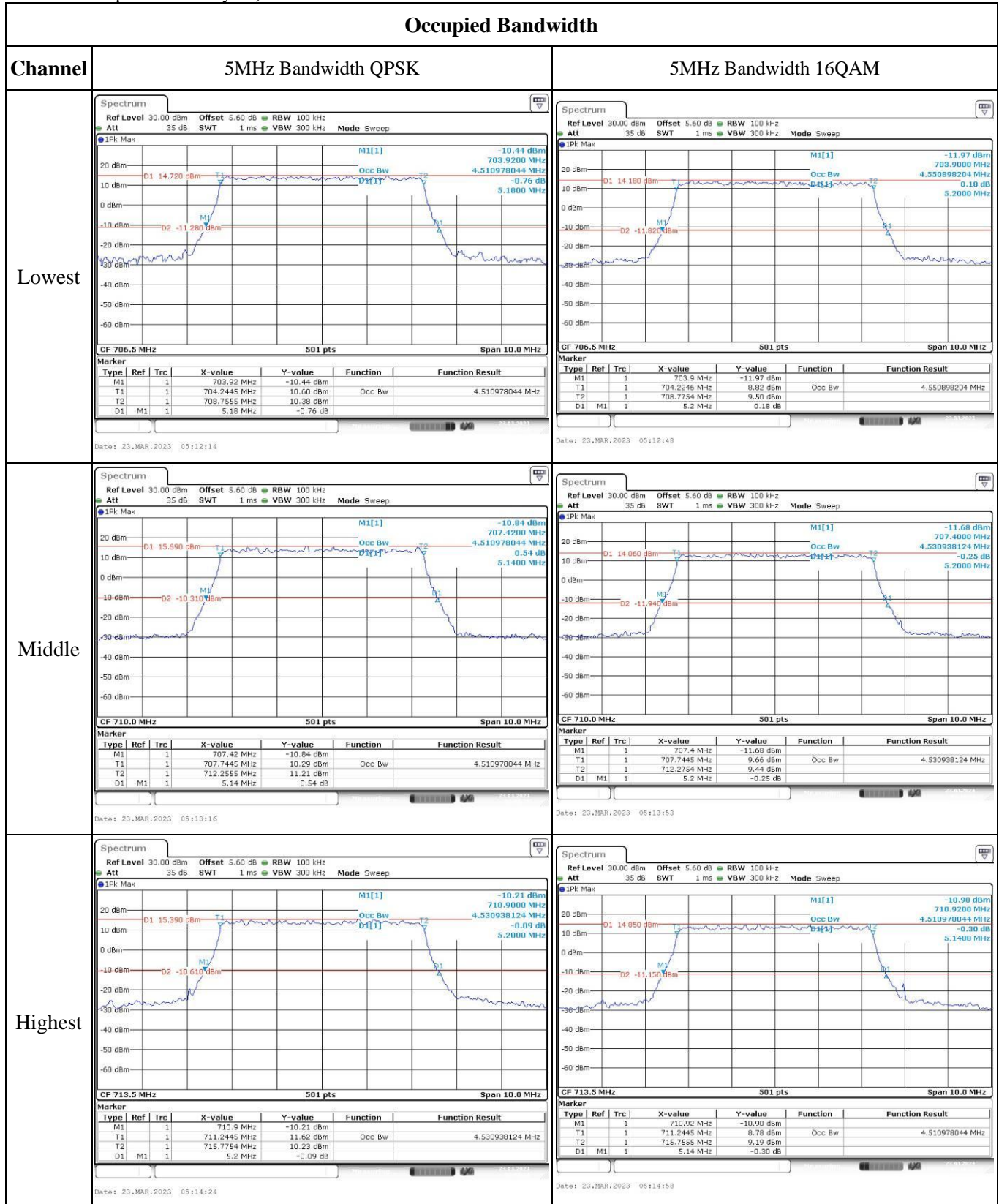
FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.

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:	10M 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	3.8	704.419	704.00	715.697	716.00
	-20	3.8	704.451	704.00	715.642	716.00
	-10	3.8	704.450	704.00	715.639	716.00
	0	3.8	704.421	704.00	715.628	716.00
	10	3.8	704.400	704.00	715.679	716.00
	20	3.8	704.489	704.00	715.611	716.00
	30	3.8	704.481	704.00	715.609	716.00
	40	3.8	704.463	704.00	715.673	716.00
	50	3.8	704.437	704.00	715.671	716.00
Frequency Stability vs. Voltage	20	3.3	704.483	704.00	715.638	716.00
	20	4.3	704.473	704.00	715.609	716.00
					Result:	Pass

Test Mode:	10M 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	3.8	704.487	704.00	715.660	716.00
	-20	3.8	704.477	704.00	715.658	716.00
	-10	3.8	704.422	704.00	715.621	716.00
	0	3.8	704.467	704.00	715.608	716.00
	10	3.8	704.441	704.00	715.644	716.00
	20	3.8	704.489	704.00	715.611	716.00
	30	3.8	704.485	704.00	715.693	716.00
	40	3.8	704.482	704.00	715.664	716.00
	50	3.8	704.463	704.00	715.635	716.00
Frequency Stability vs. Voltage	20	3.3	704.433	704.00	715.611	716.00
	20	4.3	704.464	704.00	715.670	716.00
					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):



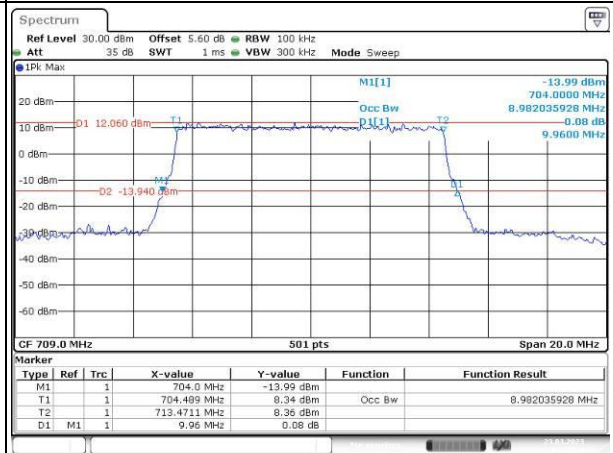
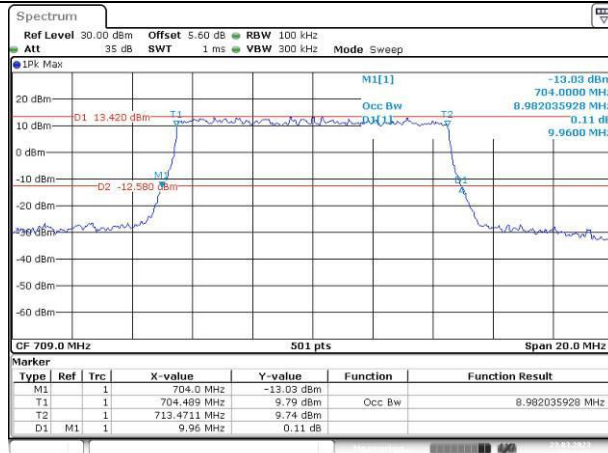
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

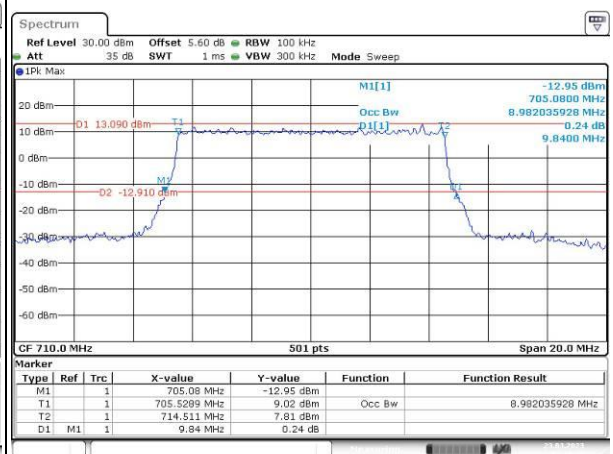
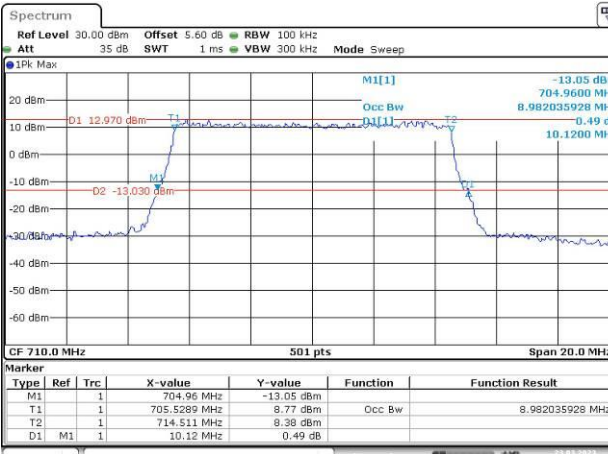
Lowest



Date: 23.MAR.2023 05:16:58

Date: 23.MAR.2023 05:17:24

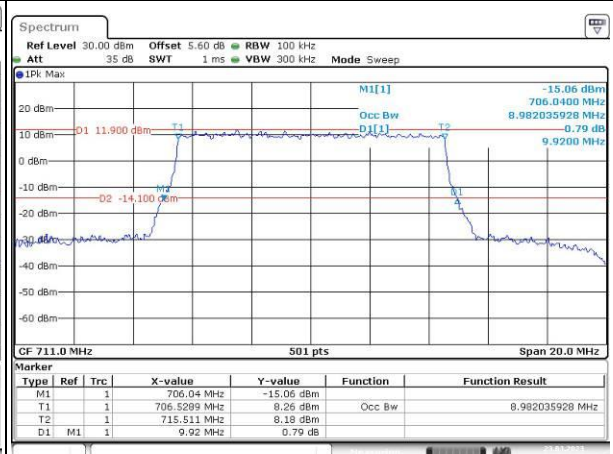
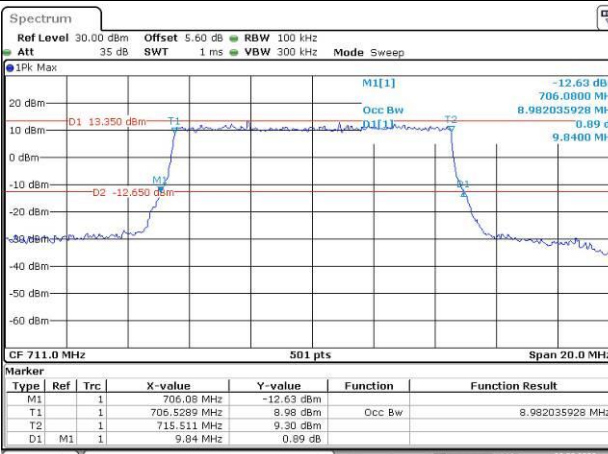
Middle



Date: 23.MAR.2023 05:18:03

Date: 23.MAR.2023 05:18:40

Highest



Date: 23.MAR.2023 05:19:15

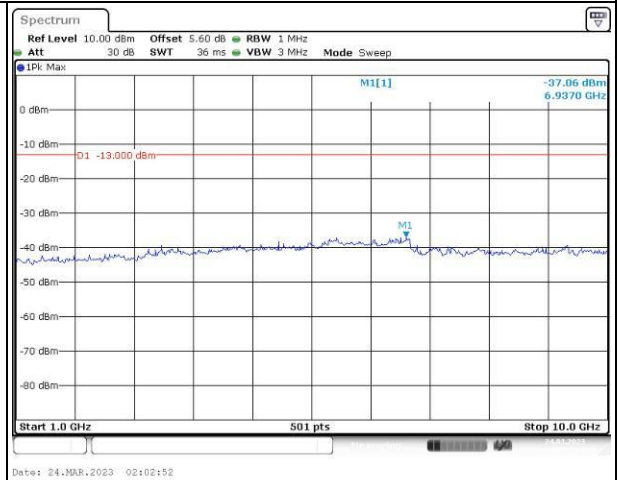
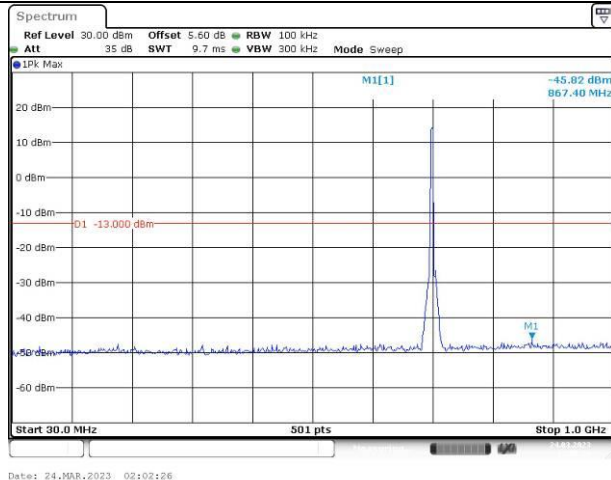
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Spurious Emissions at Antenna Terminal

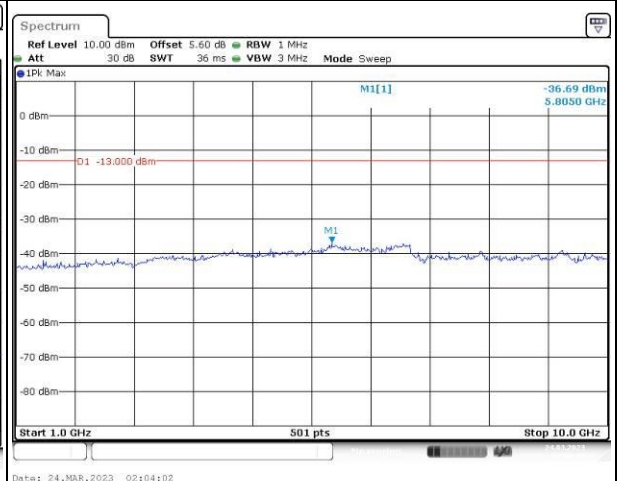
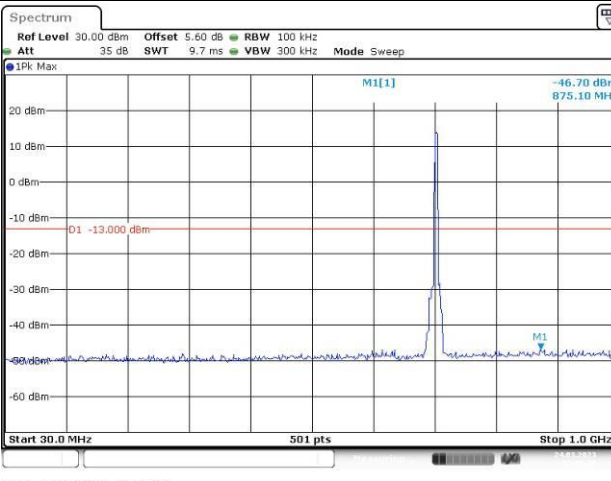
Channel

5MHz Bandwidth QPSK

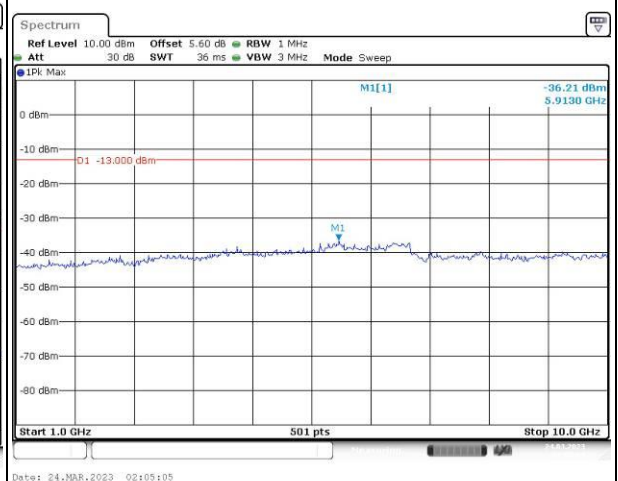
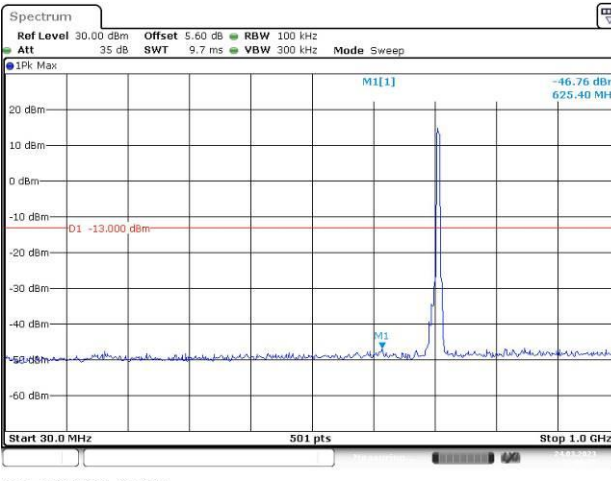
Lowest



Middle



Highest

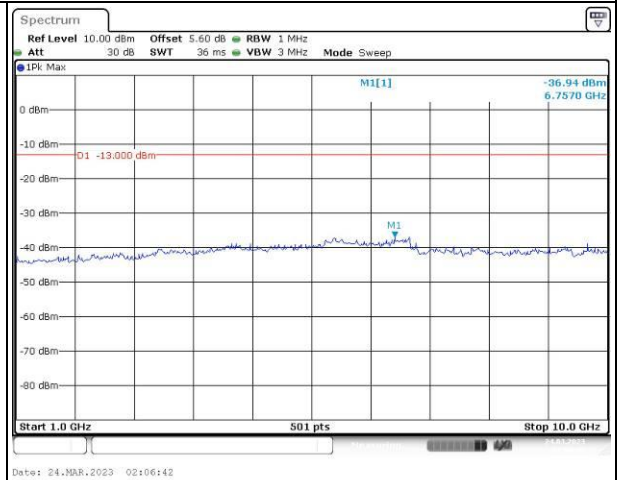
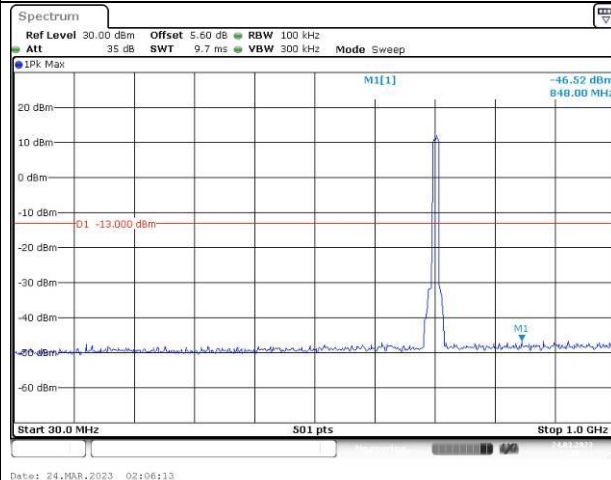


Spurious Emissions at Antenna Terminal

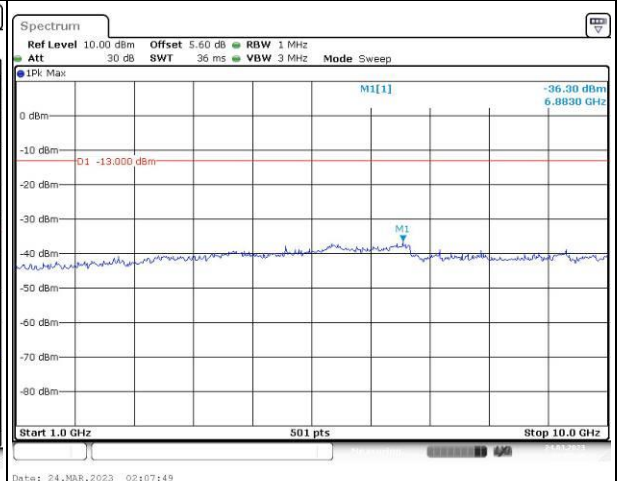
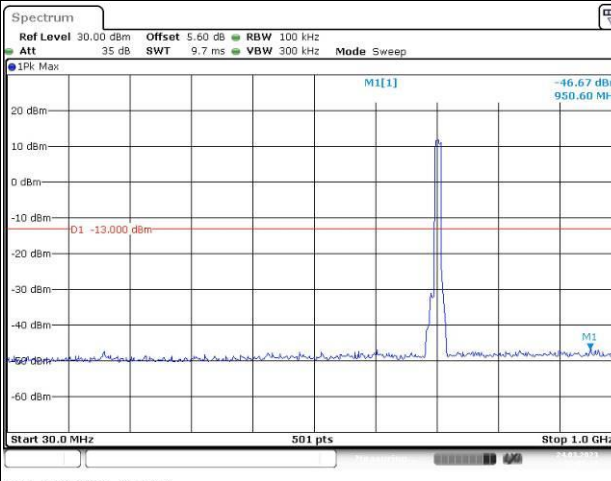
Channel

10MHz Bandwidth QPSK

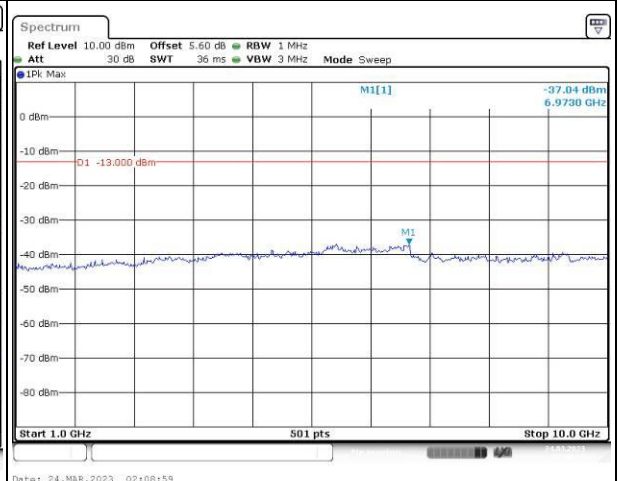
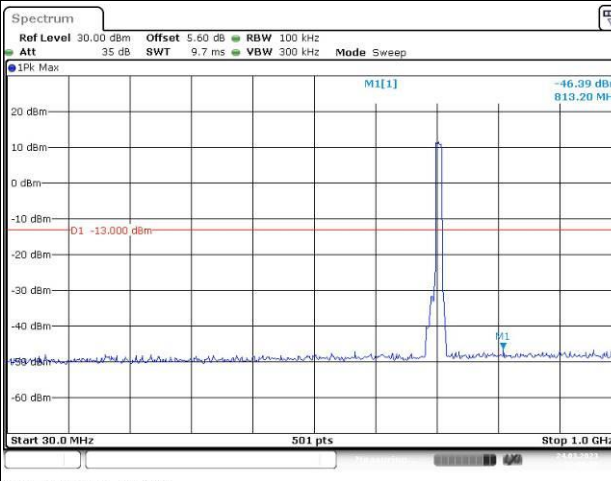
Lowest



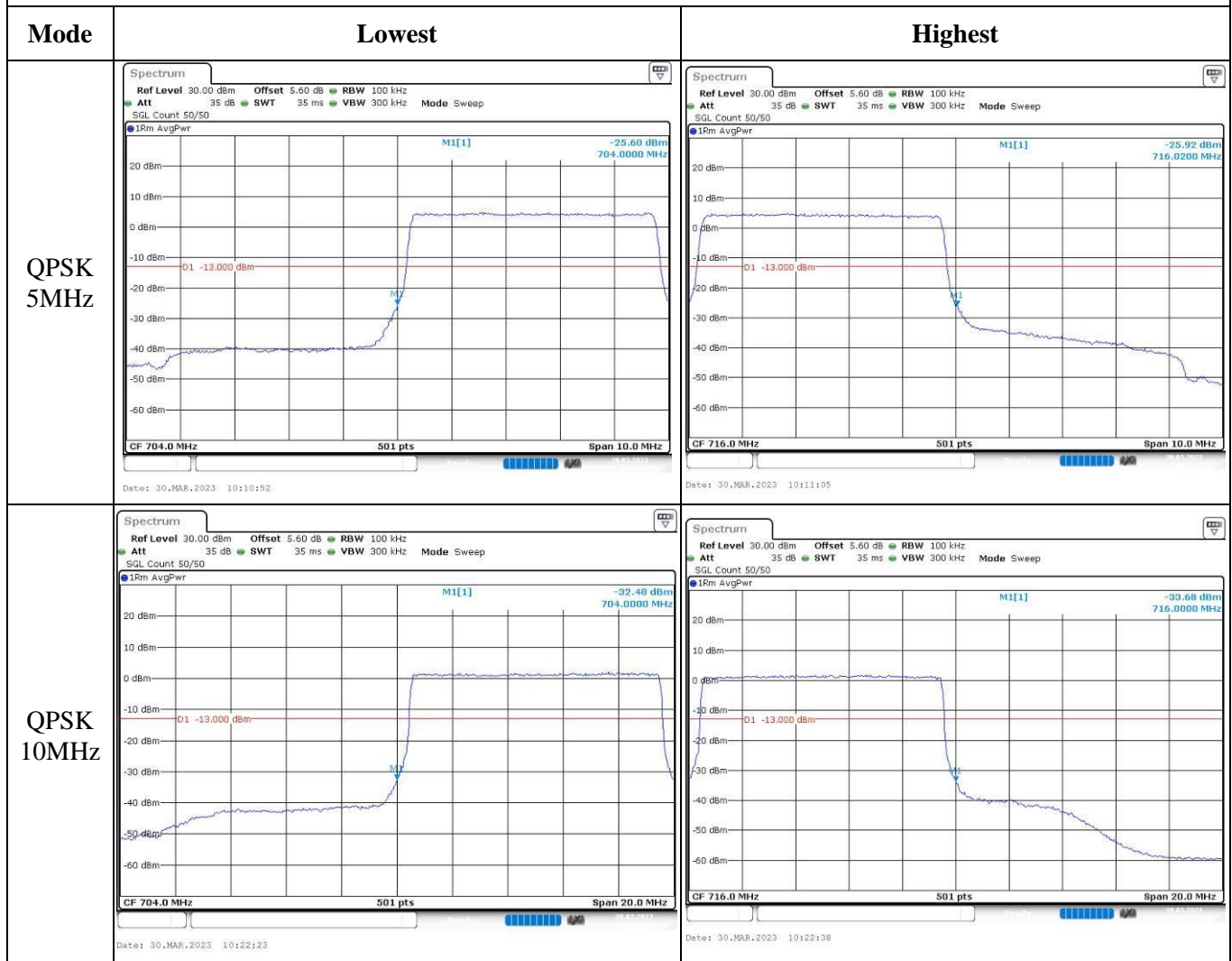
Middle



Highest



Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz		
16QAM 10MHz		

4.13 Antenna Port Test Data and Results for LTE Band 25

Serial Number:	2205	Test Date:	2023/3/22~2023/3/30
Test Site:	RF	Test Mode:	Transmitting
Tester:	Jou Zhou	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.1~25.3	Relative Humidity: (%)	41~56	ATM Pressure: (kPa)	100.1~101.6
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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	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100004	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
Weinschel	Power splitter	1515	RA915	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/4/6	2023/4/5
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	1850.7	1882.5	1914.3
3MHz	1851.5	1882.5	1913.5
5MHz	1852.5	1882.5	1912.5
10MHz	1855	1882.5	1910
15MHz	1857.5	1882.5	1907.5
20MHz	1860	1882.5	1905

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	22.05	21.76	21.64	24.34	33
	RB1#3	22.34	21.99	21.8		
	RB1#5	22.05	21.78	21.64		
	RB3#0	22.06	21.81	21.67		
	RB3#3	22.07	21.84	21.64		
	RB6#0	21.12	20.83	20.75		
1.4MHz 16QAM	RB1#0	21.08	20.76	20.64	23.27	33
	RB1#3	21.27	20.94	20.77		
	RB1#5	21.12	20.78	20.63		
	RB3#0	21	20.91	20.8		
	RB3#3	21.03	20.94	20.8		
	RB6#0	20.08	19.73	19.67		
3MHz QPSK	RB1#0	22.65	21.88	21.79	24.65	33
	RB1#8	22.64	21.83	21.76		
	RB1#14	22.61	21.8	21.73		
	RB6#0	21.38	20.86	20.76		
	RB6#9	21.15	20.84	20.73		
	RB15#0	21.06	20.86	20.73		
3MHz 16QAM	RB1#0	21.12	21.37	20.89	23.37	33
	RB1#8	21.07	21.36	20.85		
	RB1#14	21.06	21.36	20.84		
	RB6#0	19.99	19.85	19.71		
	RB6#9	19.94	19.85	19.74		
	RB15#0	20.08	19.87	19.65		
5MHz QPSK	RB1#0	22.02	21.83	21.71	24.11	33
	RB1#13	22.11	21.9	21.8		
	RB1#24	21.95	21.8	21.67		
	RB15#0	21.05	20.89	20.7		
	RB15#10	21.09	20.84	20.71		
	RB25#0	21.02	20.84	20.72		
5MHz 16QAM	RB1#0	21.08	20.71	20.93	23.12	33
	RB1#13	21.12	20.76	21.03		
	RB1#24	21.06	20.64	20.93		
	RB15#0	20.05	19.89	19.68		
	RB15#10	20.05	19.81	19.67		
	RB25#0	20.03	19.85	19.64		
10MHz QPSK	RB1#0	22.66	21.91	21.74	24.66	33
	RB1#25	22.55	22.03	21.92		

	RB1#49	22.08	21.88	21.81		
	RB25#0	21.05	20.94	20.86		
	RB25#25	21.05	20.86	20.8		
	RB50#0	21.08	20.88	20.81		
10MHz 16QAM	RB1#0	21.63	21.01	20.7	23.71	33
	RB1#25	21.71	21.15	20.85		
	RB1#49	21.6	20.97	20.73		
	RB25#0	20.06	19.93	19.93		
	RB25#25	20.11	19.81	19.81		
15MHz QPSK	RB1#0	22.55	22.36	22.14	24.62	33
	RB1#38	22.62	22.43	22.21		
	RB1#74	22.47	22.29	22.17		
	RB36#0	21.59	21.46	21.36		
	RB36#39	21.64	21.43	21.15		
15MHz 16QAM	RB1#0	21.66	21.72	21.4	23.78	33
	RB1#38	21.68	21.78	21.31		
	RB1#74	21.66	21.74	21.19		
	RB36#0	20.61	20.41	19.83		
	RB36#39	20.61	20.39	19.82		
20MHz QPSK	RB1#0	22.38	22.24	21.96	24.75	33
	RB1#50	22.75	22.59	22.21		
	RB1#99	22.3	22.19	21.55		
	RB50#0	21.56	21.48	20.89		
	RB50#50	21.6	21.38	20.74		
20MHz 16QAM	RB100#0	21.61	21.46	20.75	24	33
	RB1#0	21.63	21.38	20.99		
	RB1#50	22	21.74	21.4		
	RB1#99	21.61	21.32	21.05		
	RB50#0	20.52	20.46	19.86		
	RB50#50	20.58	20.33	19.66		
	RB100#0	20.57	20.45	19.74		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(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	4.35	4.99	4.38	13
	RB100#0	4.09	4.14	4.09	13
20MHz 16QAM	RB1#0	5.3	6.03	5.19	13
	RB100#0	5.8	5.8	5.71	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	1.096	1.102	1.096	1.308	1.296	1.326
1.4MHz 16QAM	1.096	1.102	1.096	1.29	1.302	1.332
3MHz QPSK	2.695	2.695	2.683	2.88	2.88	2.904
3MHz 16QAM	2.683	2.683	2.683	2.88	2.88	2.88
5MHz QPSK	4.531	4.511	4.511	5.18	5.18	5.28
5MHz 16QAM	4.511	4.551	4.551	5.12	5.36	5.2
10MHz QPSK	8.942	8.942	9.022	9.88	9.92	10
10MHz 16QAM	8.982	8.942	8.942	9.88	9.88	9.76
15MHz QPSK	13.473	13.533	13.593	15.18	15.18	15.24
15MHz 16QAM	13.533	13.533	13.533	15.18	15.18	15.12
20MHz QPSK	17.964	18.044	17.964	19.6	20.08	19.6
20MHz 16QAM	17.964	17.964	18.044	19.92	19.76	19.52

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.

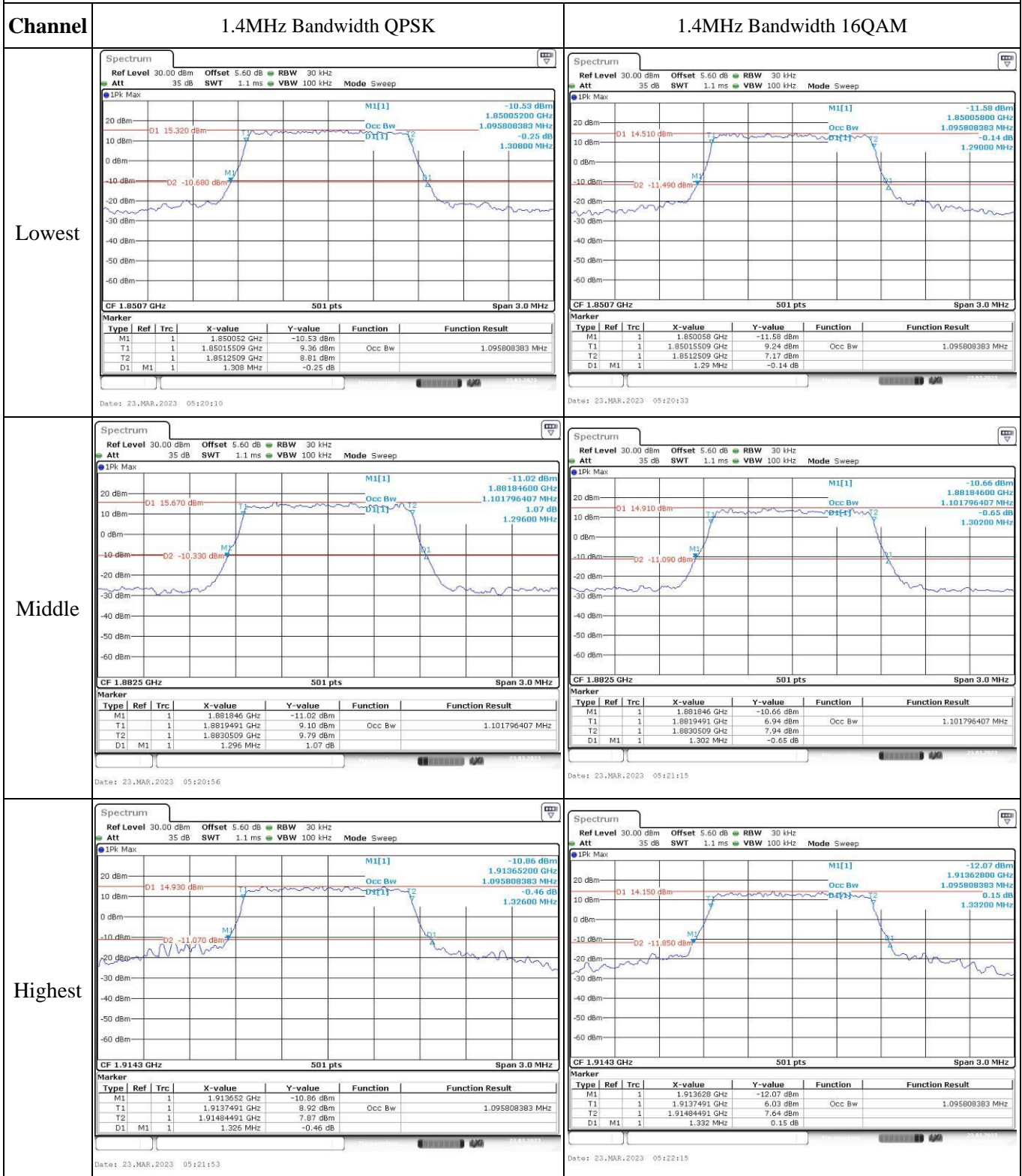
FCC §2.1051, §24.238 (a):Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

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	3.8	1851.048	1850.000	1913.918	1915.000
	-20	3.8	1851.053	1850.000	1913.999	1915.000
	-10	3.8	1851.049	1850.000	1913.915	1915.000
	0	3.8	1851.049	1850.000	1913.967	1915.000
	10	3.8	1851.033	1850.000	1913.909	1915.000
	20	3.8	1851.058	1850.000	1913.942	1915.000
	30	3.8	1851.034	1850.000	1913.933	1915.000
	40	3.8	1851.064	1850.000	1913.997	1915.000
Frequency Stability vs. Voltage	20	3.3	1851.067	1850.000	1913.912	1915.000
	20	4.3	1851.105	1850.000	1913.999	1915.000
					Result:	Pass

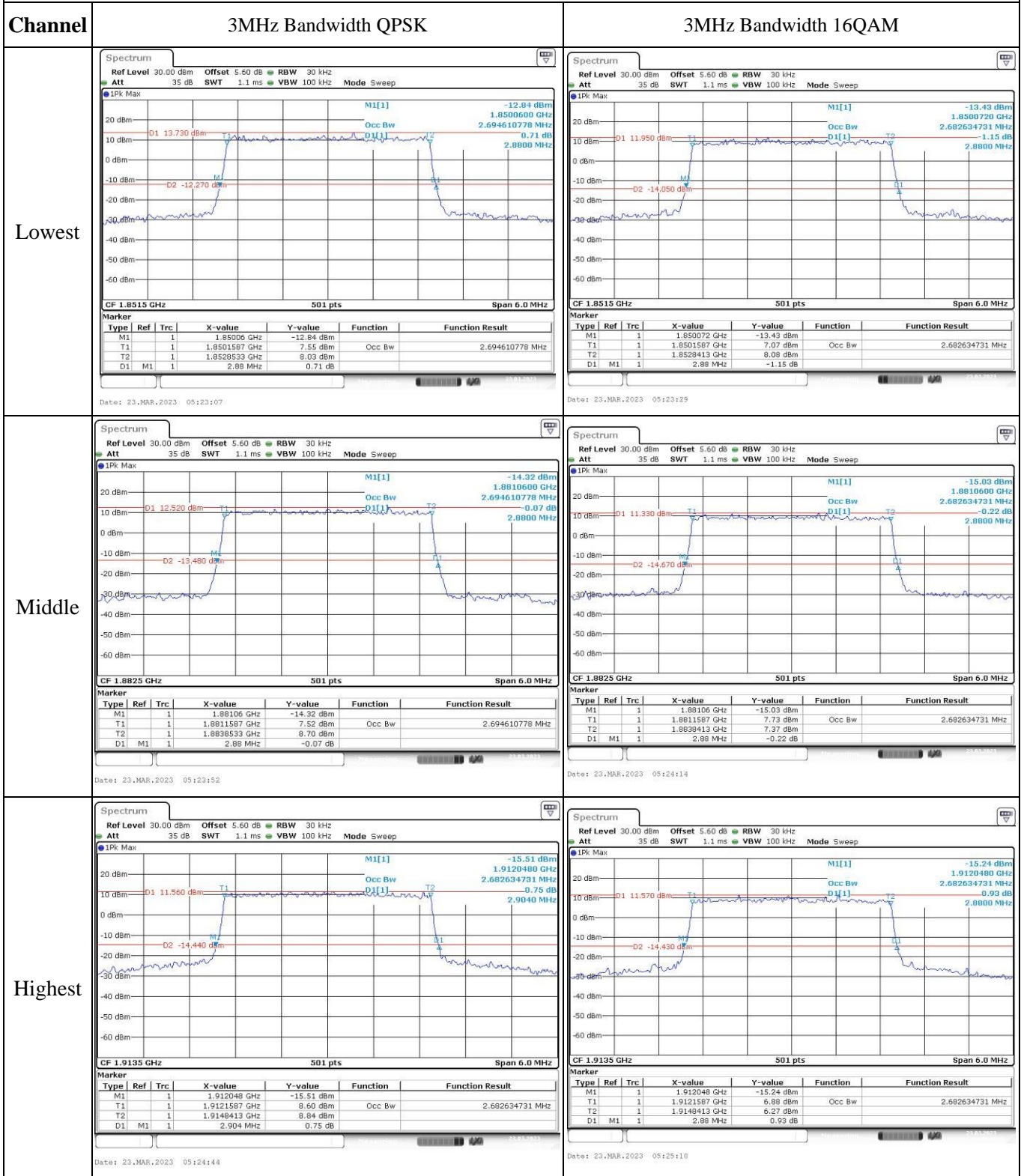
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1851.038	1850.000	1914.028	1915.000
	-20	3.8	1851.104	1850.000	1914.034	1915.000
	-10	3.8	1851.022	1850.000	1914.081	1915.000
	0	3.8	1851.056	1850.000	1914.110	1915.000
	10	3.8	1851.108	1850.000	1914.107	1915.000
	20	3.8	1851.058	1850.000	1914.022	1915.000
	30	3.8	1851.082	1850.000	1914.068	1915.000
	40	3.8	1851.033	1850.000	1914.026	1915.000
Frequency Stability vs. Voltage	20	3.3	1851.011	1850.000	1914.052	1915.000
	20	4.3	1851.102	1850.000	1914.023	1915.000
					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



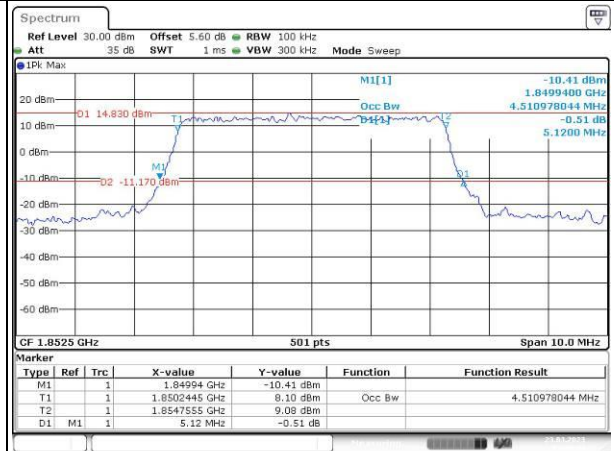
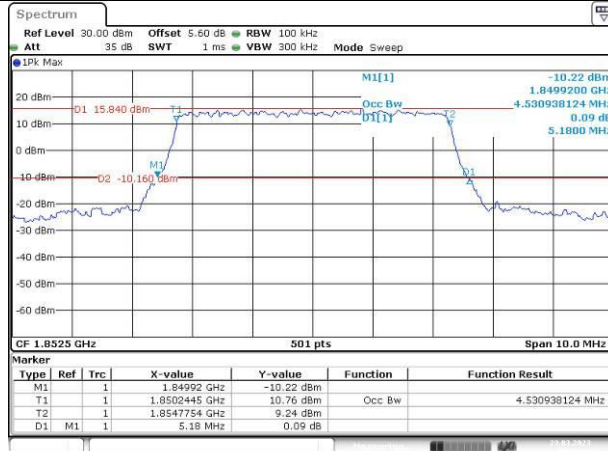
Occupied Bandwidth

Channel

5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

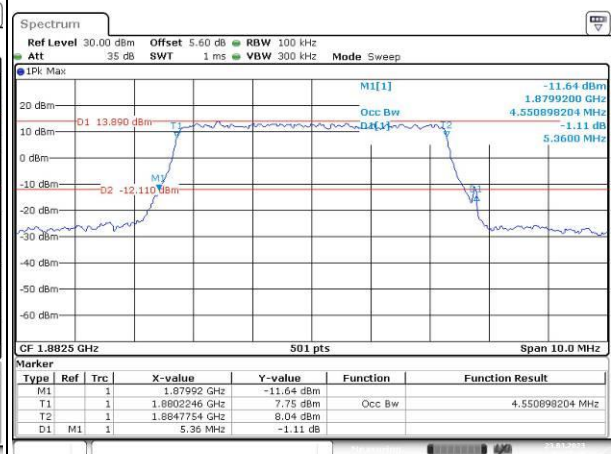
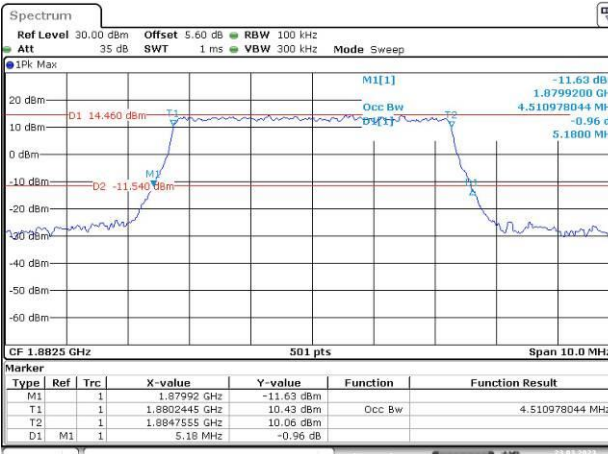
Lowest



Date: 23.MAR.2023 05:26:14

Date: 23.MAR.2023 05:26:44

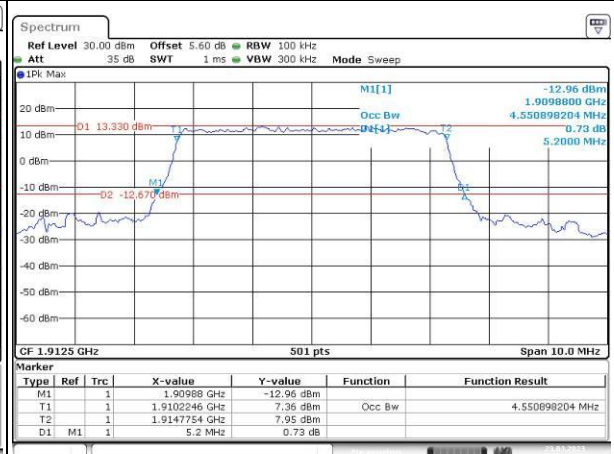
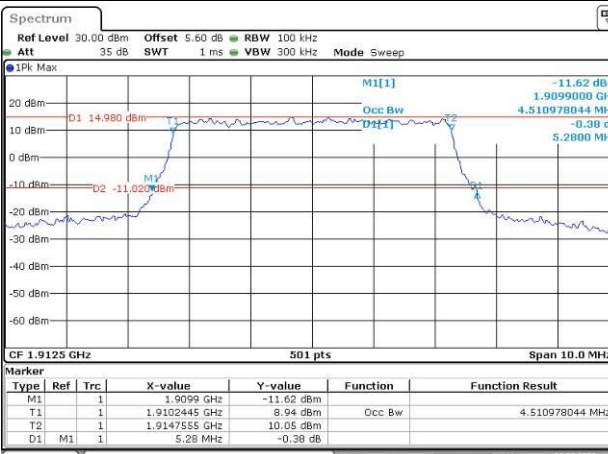
Middle



Date: 23.MAR.2023 05:12:19

Date: 23.MAR.2023 05:12:49

Highest



Date: 23.MAR.2023 05:12:20

Date: 23.MAR.2023 05:28:50