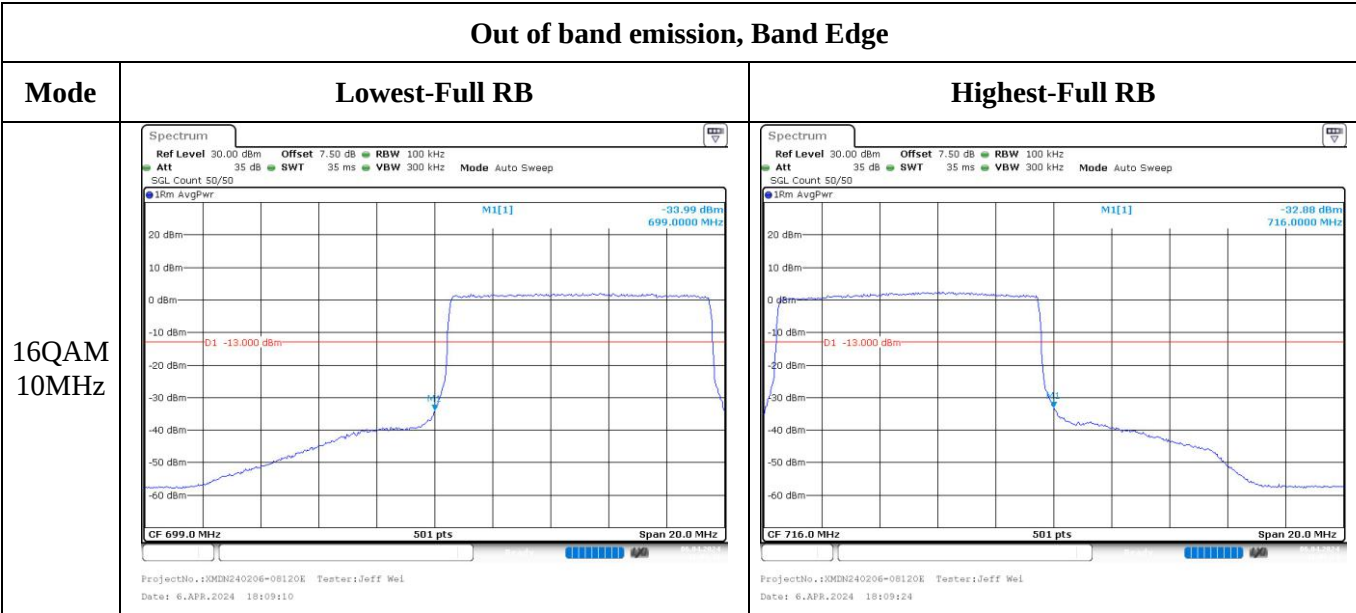


Out of band emission, Band Edge



5.11 Antenna Port Test Data and Results for LTE Band 13

Serial Number:	2HPA-1	Test Date:	2024/4/1~2024/4/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long, Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~26.9	Relative Humidity: (%)	49~72	ATM Pressure: (kPa)	100.2~101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Micro-Coax	Coaxial Cable	UFB205A	323308-024	2024/1/2	2025/1/1
Minl-Clrucuits	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	110479	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:**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	23.61	/	23.69	19.63	34.77
	RB1#13	23.75	/	23.76		
	RB1#24	23.51	/	23.72		
	RB15#0	22.94	/	22.83		
	RB15#10	22.9	/	22.81		
	RB25#0	22.86	/	22.8		
5MHz 16QAM	RB1#0	22.59	/	22.75	18.82	34.77
	RB1#13	22.5	/	22.95		
	RB1#24	22.13	/	22.57		
	RB15#0	21.79	/	21.78		
	RB15#10	21.75	/	21.76		
	RB25#0	21.95	/	21.86		
10MHz QPSK	RB1#0	/	23.69	/	19.65	34.77
	RB1#25	/	23.78	/		
	RB1#49	/	23.68	/		
	RB25#0	/	22.88	/		
	RB25#25	/	22.81	/		
	RB50#0	/	22.94	/		
10MHz 16QAM	RB1#0	/	23.31	/	19.18	34.77
	RB1#25	/	23.23	/		
	RB1#49	/	23.11	/		
	RB25#0	/	21.9	/		
	RB25#25	/	21.81	/		
	RB50#0	/	21.77	/		

Note:

ERP= Conducted Power(dBm) - L_c(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15The result was calculated with the maximum combination of G_T - L_c**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	/	3.04	/	13
	RB50#0	/	4.67	/	13
10MHz 16QAM	RB1#0	/	4.06	/	13
	RB50#0	/	5.65	/	13
				Result:	Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.491	/	4.511	5	/	5
5MHz 16QAM	4.531	/	4.511	5.02	/	5
10MHz QPSK	/	8.942	/	/	9.68	/
10MHz 16QAM	/	8.942	/	/	9.68	/
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal	
Result:	Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.

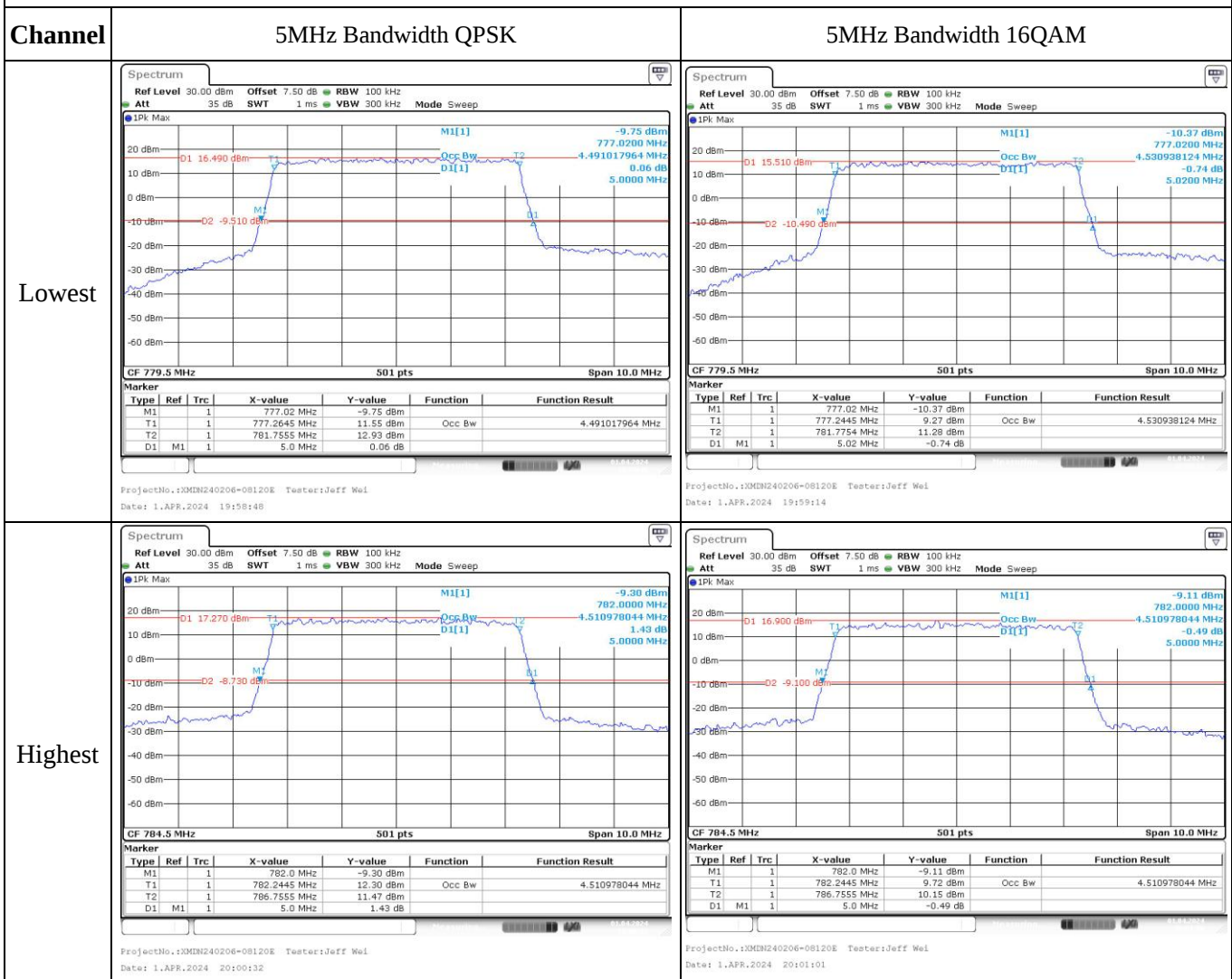
Out of band emission, Band Edge	
Result:	Pass, Please refer to the test plots of Out of band emission, Band Edge.

Frequency Stability						
Test Mode:	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	7.7	777.526	777.00	786.447	787.00
	-20	7.7	777.523	777.00	786.462	787.00
	-10	7.7	777.514	777.00	786.453	787.00
	0	7.7	777.517	777.00	786.444	787.00
	10	7.7	777.514	777.00	786.456	787.00
	20	7.7	777.529	777.00	786.471	787.00
	30	7.7	777.550	777.00	786.483	787.00
	40	7.7	777.556	777.00	786.489	787.00
	50	7.7	777.532	777.00	786.483	787.00
Frequency Stability vs. Voltage	20	6.8	777.532	777.00	786.489	787.00
	20	8.8	777.550	777.00	786.492	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	7.7	777.517	777.00	786.465	787.00
	-20	7.7	777.523	777.00	786.453	787.00
	-10	7.7	777.505	777.00	786.456	787.00
	0	7.7	777.508	777.00	786.465	787.00
	10	7.7	777.505	777.00	786.465	787.00
	20	7.7	777.529	777.00	786.471	787.00
	30	7.7	777.535	777.00	786.474	787.00
	40	7.7	777.556	777.00	786.480	787.00
	50	7.7	777.532	777.00	786.492	787.00
Frequency Stability vs. Voltage	20	6.8	777.541	777.00	786.495	787.00
	20	8.8	777.544	777.00	786.498	787.00
					Result:	Pass

Test Plots:

Occupied Bandwidth



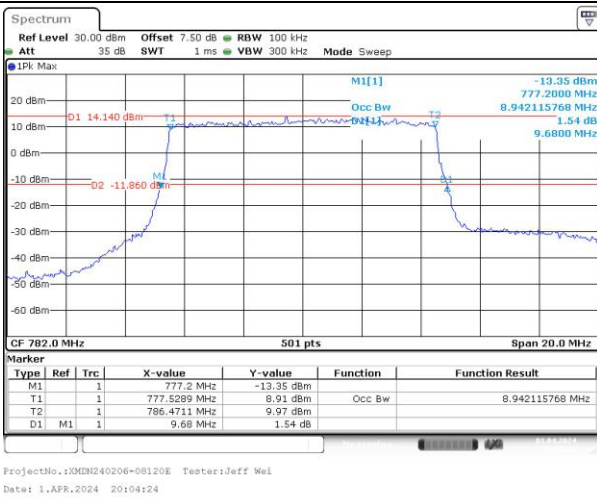
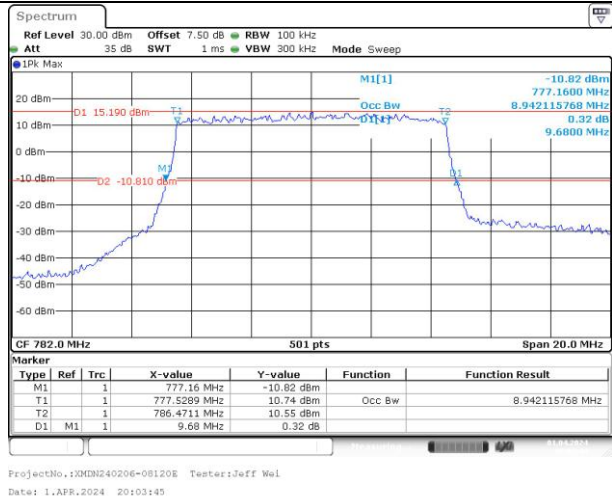
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

Middle

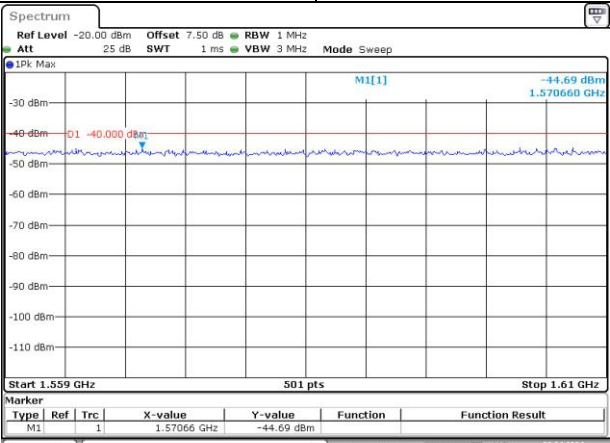
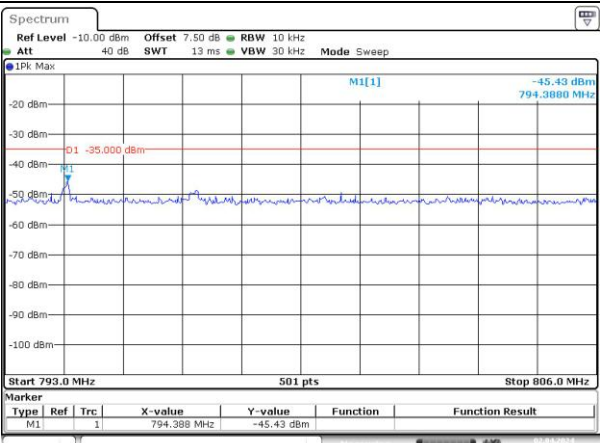
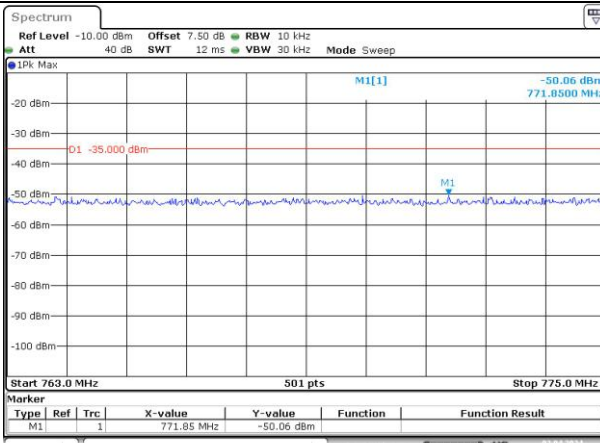
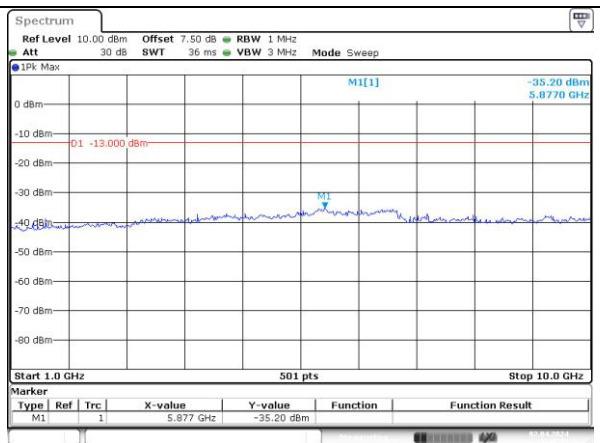
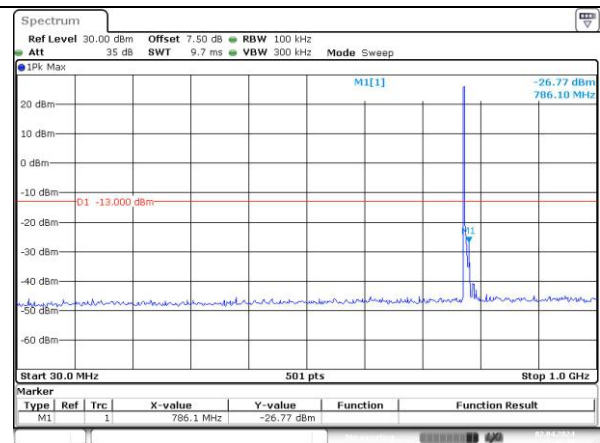


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

Lowest

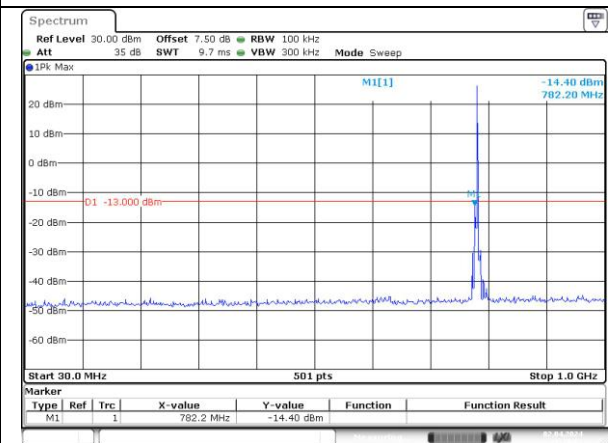


Spurious Emissions at Antenna Terminal

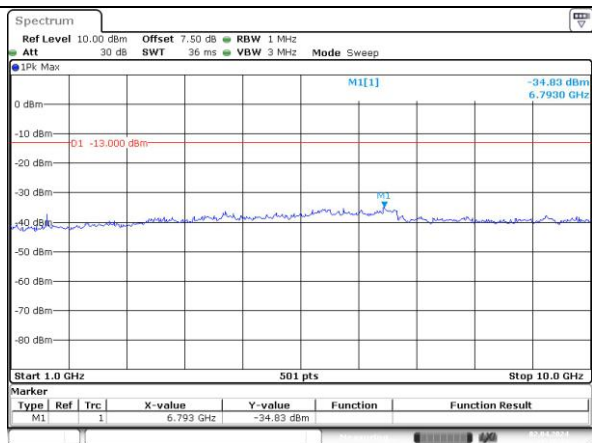
Channel

5MHz Bandwidth QPSK

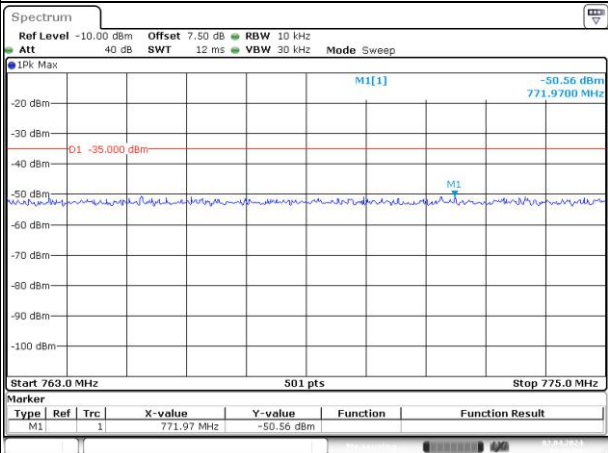
Highest



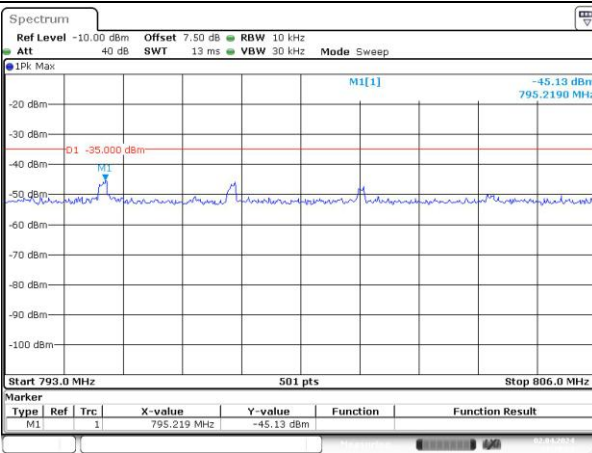
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Date: 2.APR.2024 21:18:02



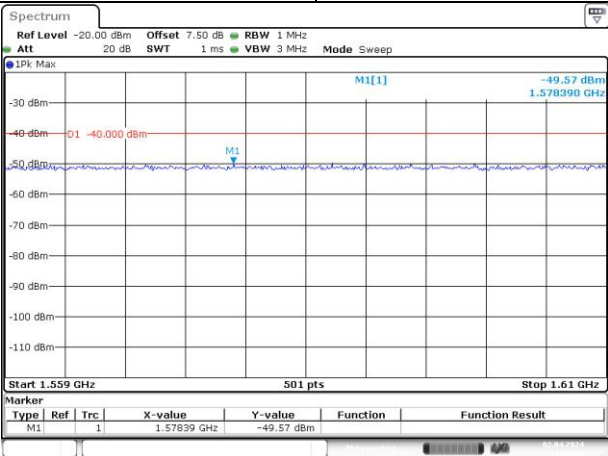
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Date: 2.APR.2024 21:18:53



ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:19:22



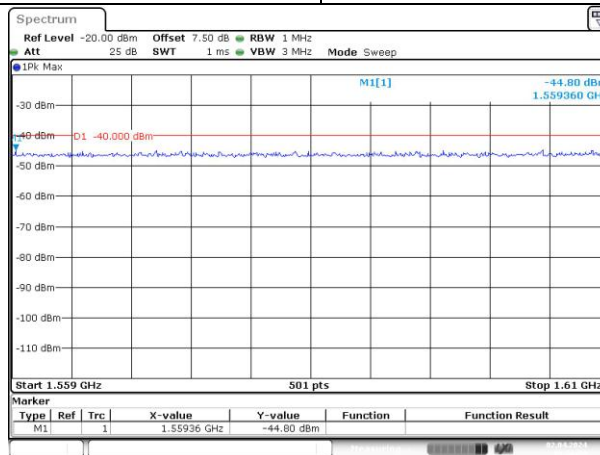
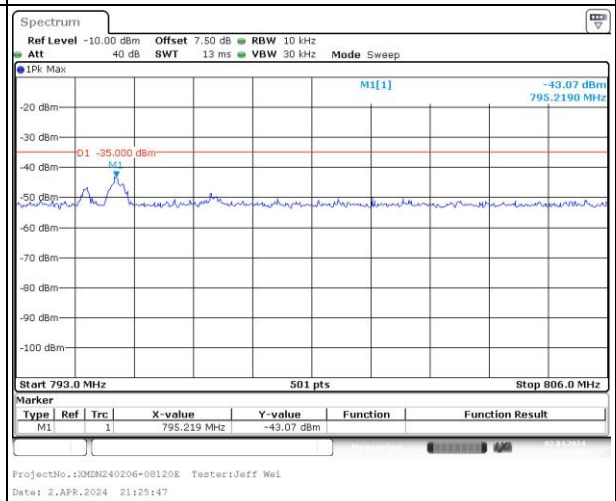
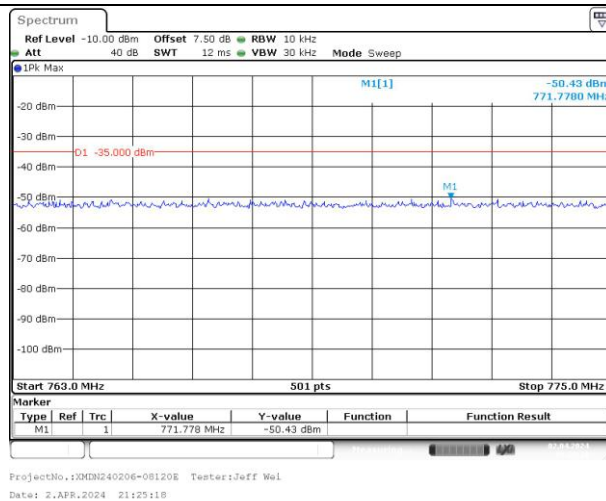
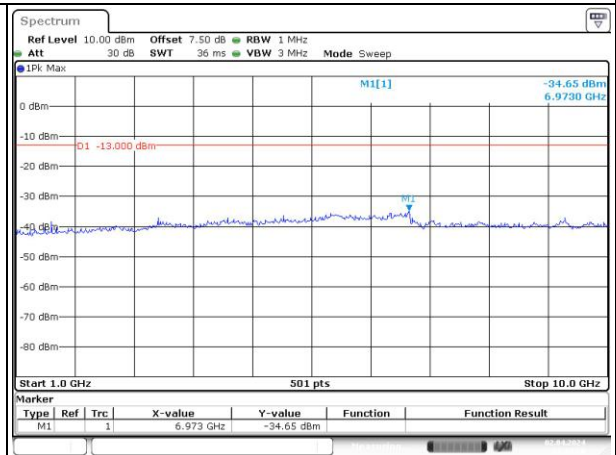
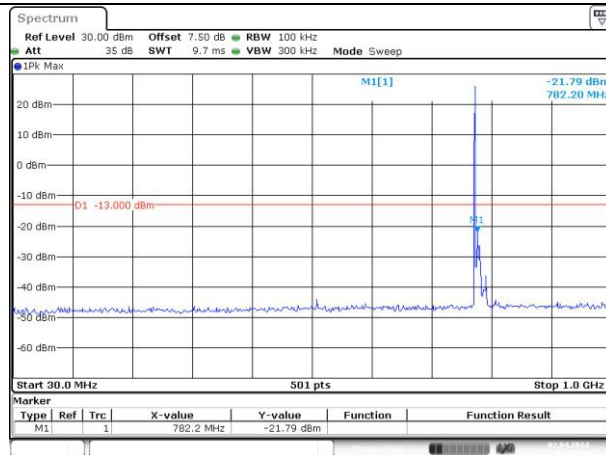
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Spurious Emissions at Antenna Terminal

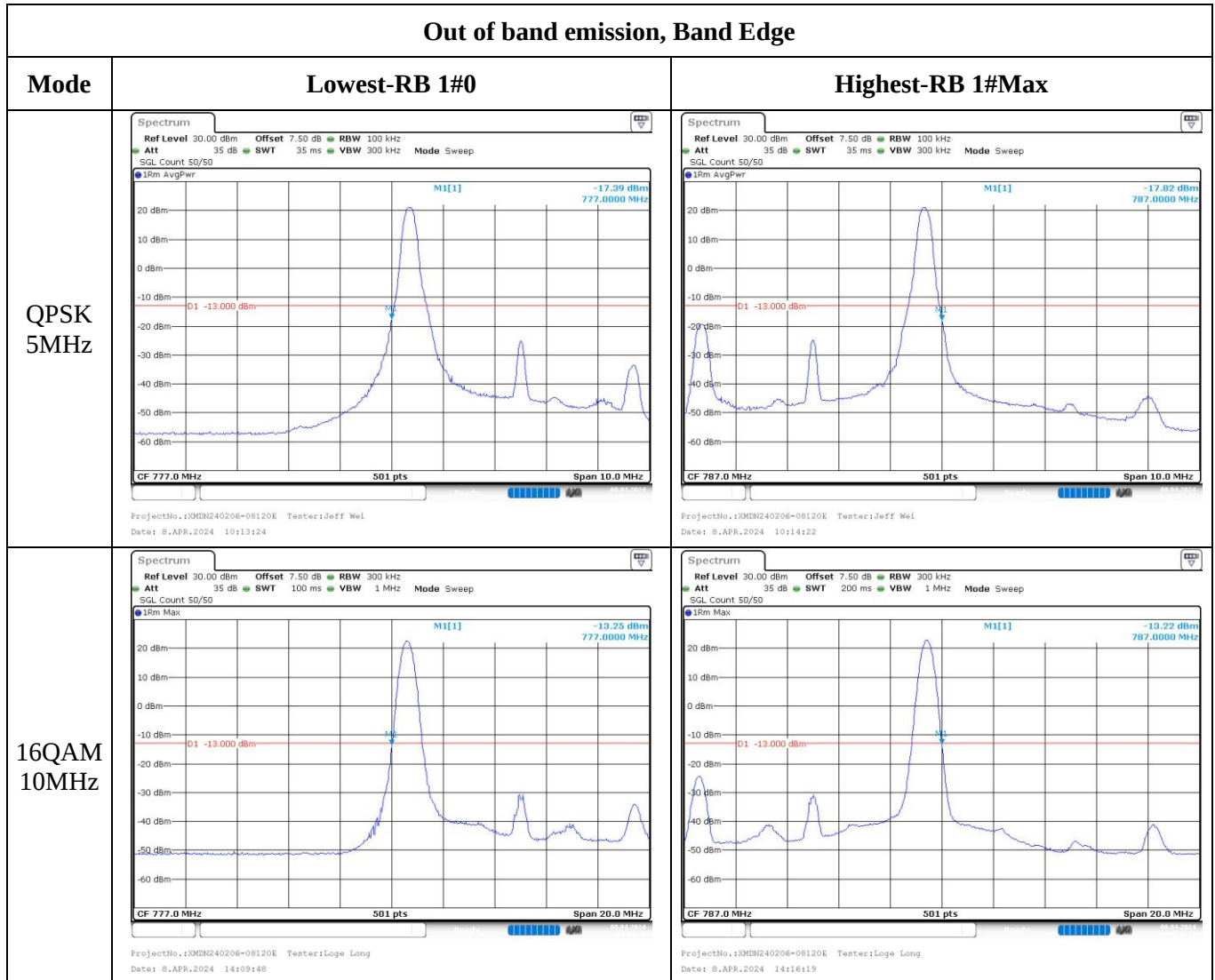
Channel

10MHz Bandwidth QPSK

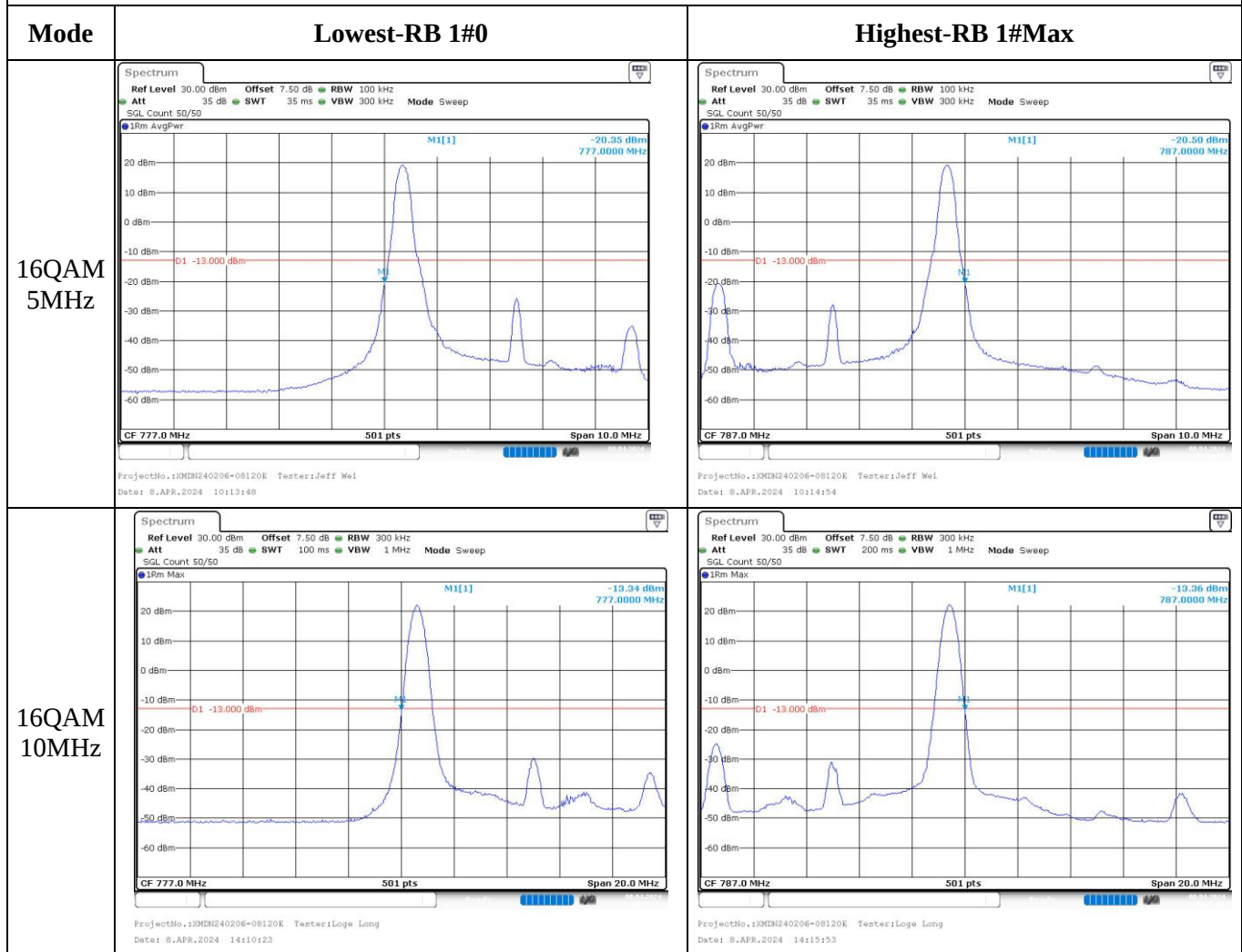
Middle



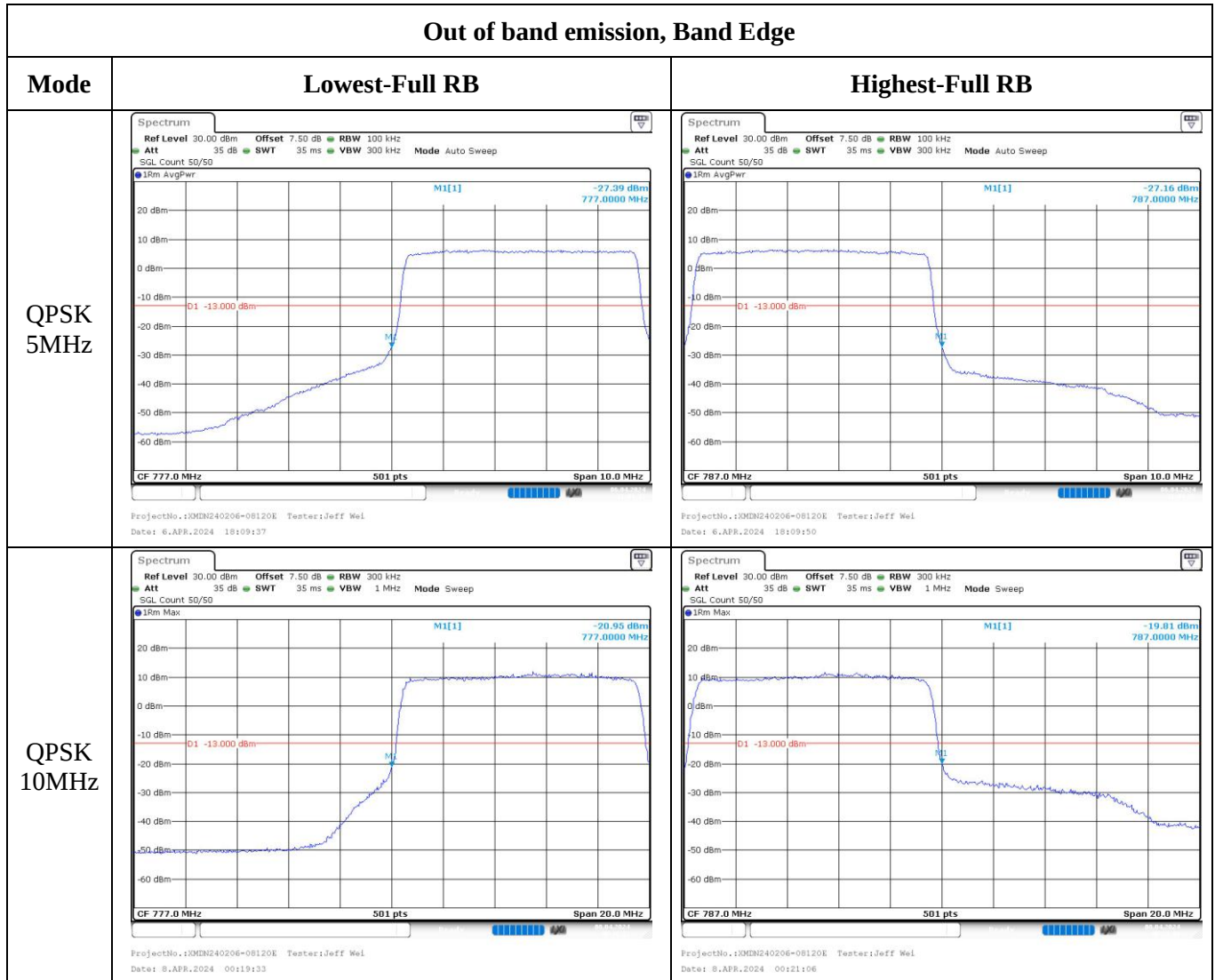
Out of band emission, Band Edge



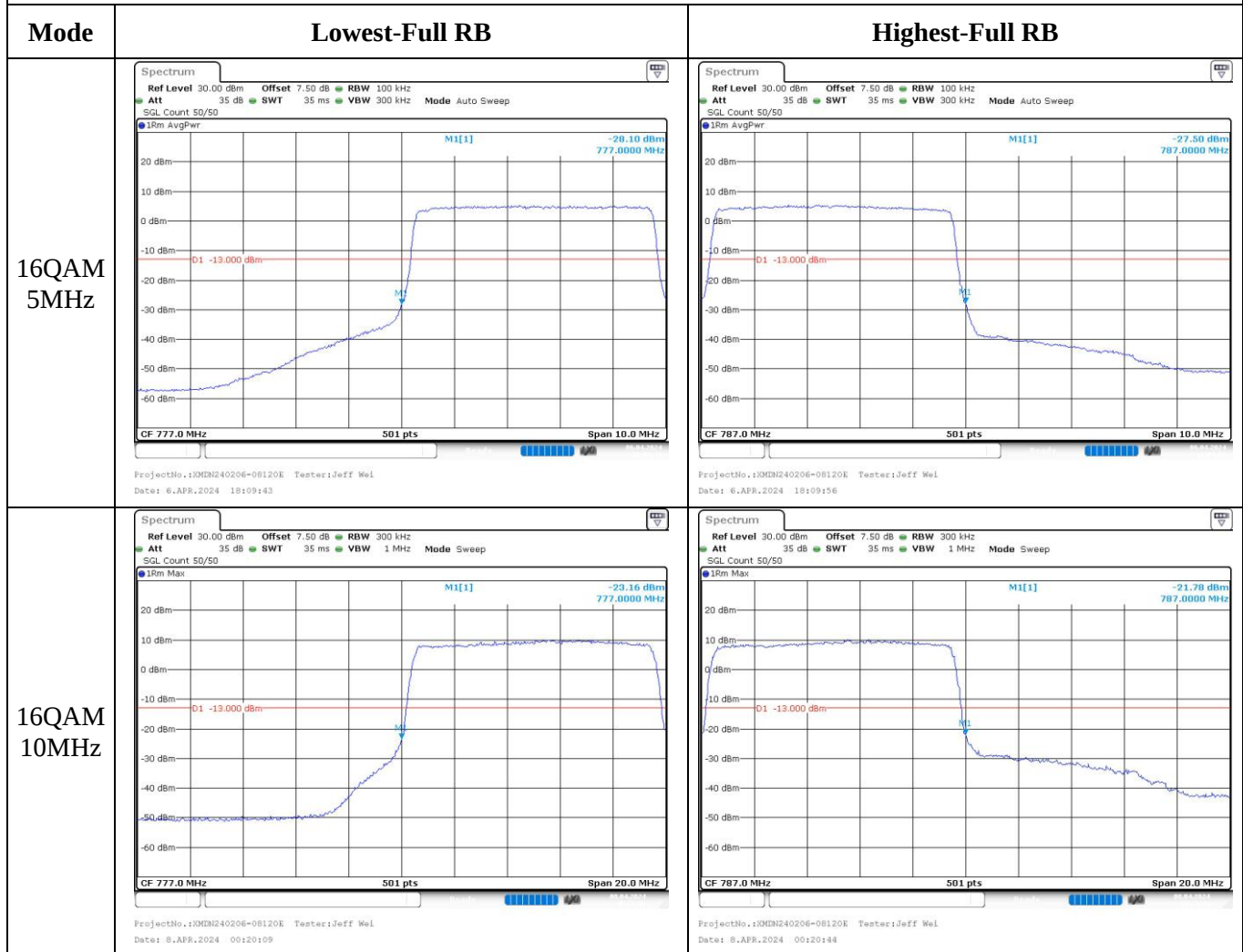
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



5.12 Antenna Port Test Data and Results for LTE Band 17

Serial Number:	2HPA-1	Test Date:	2024/4/1~2024/4/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long, Jeff Wei	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.1~26.9	Relative Humidity: (%)	49~72	ATM Pressure: (kPa)	100.2~101.1
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Micro-Coax	Coaxial Cable	UFB205A	323308-024	2024/1/2	2025/1/1
Minl-Clruiuts	Coaxial Power Splitters & Combiner	ZFRSC-183- S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	110479	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038- 1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:**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	23.47	23.52	23.49	19.8	34.77
	RB1#13	23.71	23.63	23.37		
	RB1#24	23.46	23.78	23.48		
	RB15#0	22.85	22.65	22.71		
	RB15#10	22.84	22.61	22.7		
	RB25#0	22.84	22.64	22.6		
5MHz 16QAM	RB1#0	22.88	22.52	22.28	19.43	34.77
	RB1#13	23.41	22.82	22.33		
	RB1#24	22.92	22.27	21.93		
	RB15#0	21.63	21.68	21.75		
	RB15#10	21.7	21.68	21.56		
	RB25#0	21.55	21.74	21.78		
10MHz QPSK	RB1#0	23.04	23.94	23.85	20.11	34.77
	RB1#25	24.09	24.05	24.01		
	RB1#49	23.8	23.71	23.55		
	RB25#0	22.86	22.79	22.79		
	RB25#25	22.79	22.61	22.72		
	RB50#0	22.81	22.83	22.78		
10MHz 16QAM	RB1#0	22.93	23.18	23.1	19.91	34.77
	RB1#25	23.61	23.89	23.2		
	RB1#49	22.49	22.95	23.33		
	RB25#0	22.07	21.92	21.83		
	RB25#25	21.94	21.74	21.55		
	RB50#0	21.82	21.75	21.79		

Note:

ERP= Conducted Power(dBm) - L_c(dB) + G_T(dBd)G_T(dBd)=G_T(dBi)-2.15The result was calculated with the maximum combination of G_T - L_c**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	3.83	4	3.97	13
	RB50#0	4.49	4.46	4.43	13
10MHz 16QAM	RB1#0	4.61	4.75	4.78	13
	RB50#0	5.54	5.62	5.51	13
Result:					Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.511	4.511	4.511	5.02	5	5
5MHz 16QAM	4.531	4.511	4.511	5.02	5.04	5
10MHz QPSK	8.942	8.942	8.942	9.76	9.72	9.84
10MHz 16QAM	8.942	8.942	8.982	9.72	9.72	9.72
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal	
Result:	Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.

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

Frequency Stability						
Test Mode:	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	7.7	704.511	704.00	715.453	716.00
	-20	7.7	704.526	704.00	715.450	716.00
	-10	7.7	704.511	704.00	715.459	716.00
	0	7.7	704.526	704.00	715.462	716.00
	10	7.7	704.505	704.00	715.444	716.00
	20	7.7	704.529	704.00	715.471	716.00
	30	7.7	704.544	704.00	715.492	716.00
	40	7.7	704.550	704.00	715.492	716.00
	50	7.7	704.556	704.00	715.489	716.00
Frequency Stability vs. Voltage	20	6.8	704.544	704.00	715.474	716.00
	20	8.8	704.541	704.00	715.483	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	7.7	704.523	704.00	715.496	716.00
	-20	7.7	704.523	704.00	715.499	716.00
	-10	7.7	704.517	704.00	715.487	716.00
	0	7.7	704.526	704.00	715.487	716.00
	10	7.7	704.517	704.00	715.496	716.00
	20	7.7	704.529	704.00	715.511	716.00
	30	7.7	704.553	704.00	715.535	716.00
	40	7.7	704.538	704.00	715.535	716.00
	50	7.7	704.538	704.00	715.520	716.00
Frequency Stability vs. Voltage	20	6.8	704.532	704.00	715.538	716.00
	20	8.8	704.538	704.00	715.517	716.00
					Result:	Pass

Test Plots:

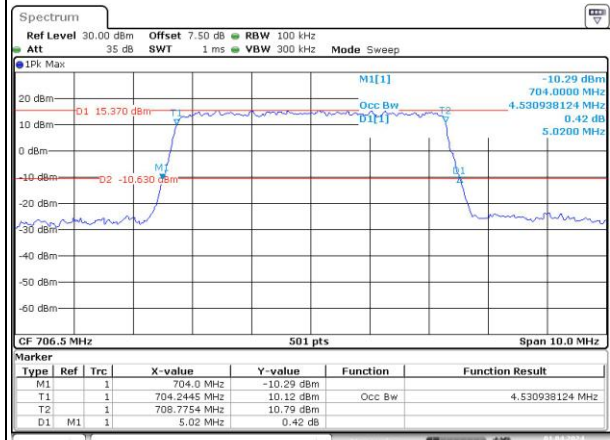
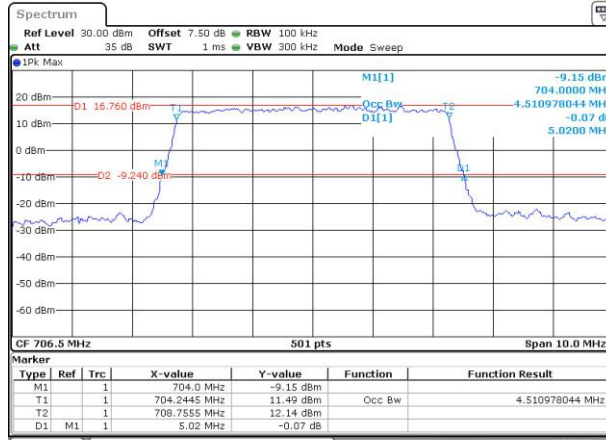
Occupied Bandwidth

Channel

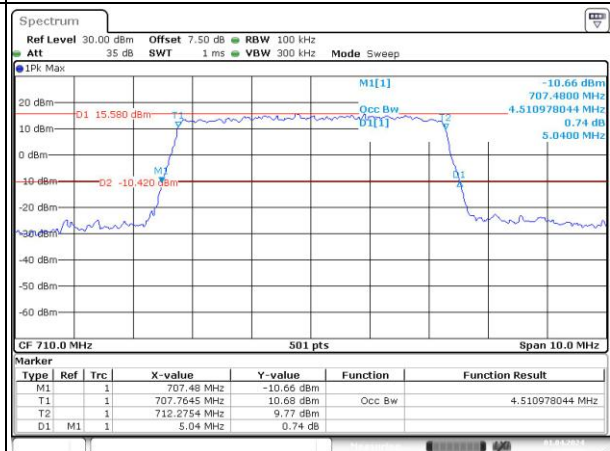
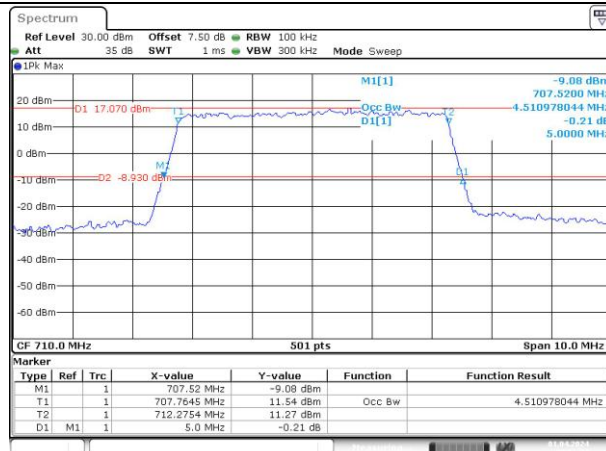
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

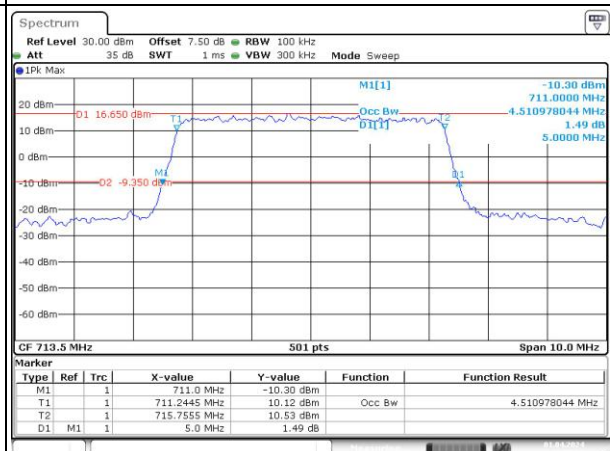
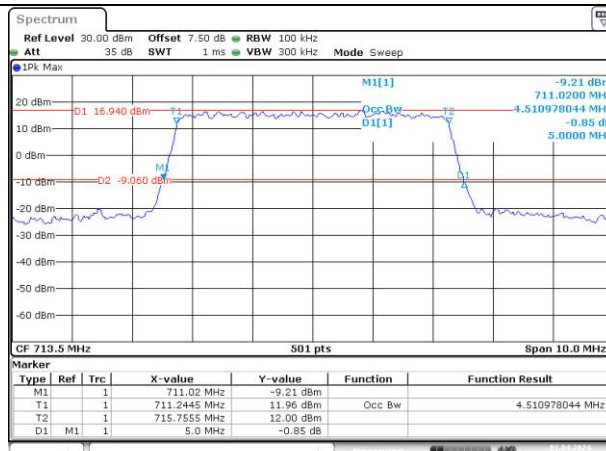
Lowest



Middle



Highest



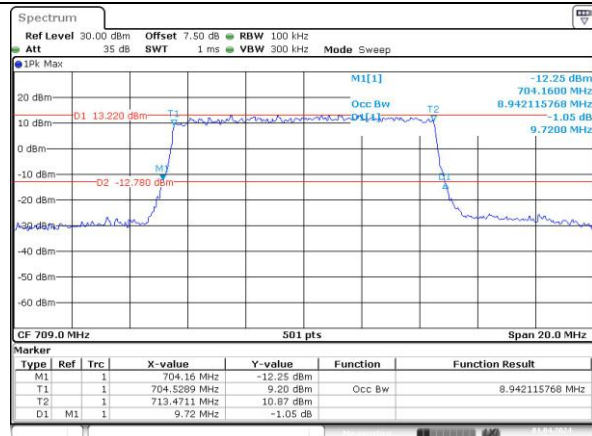
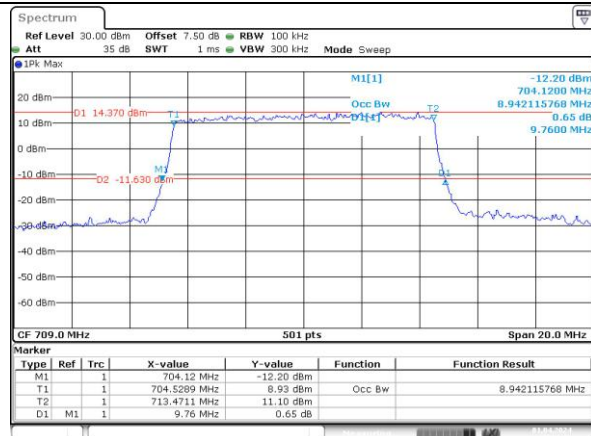
Occupied Bandwidth

Channel

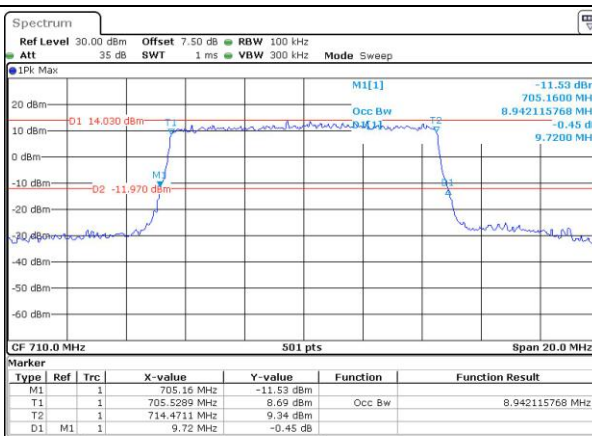
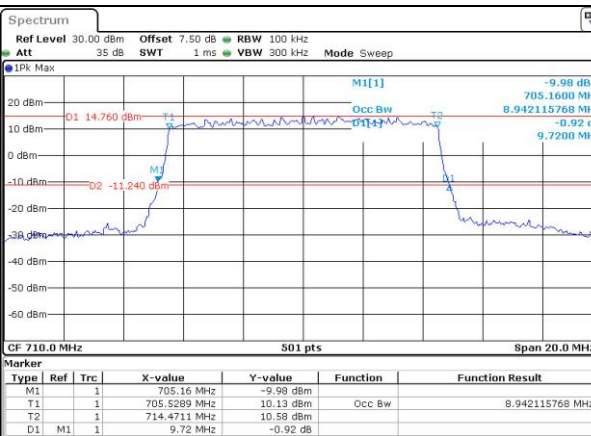
10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

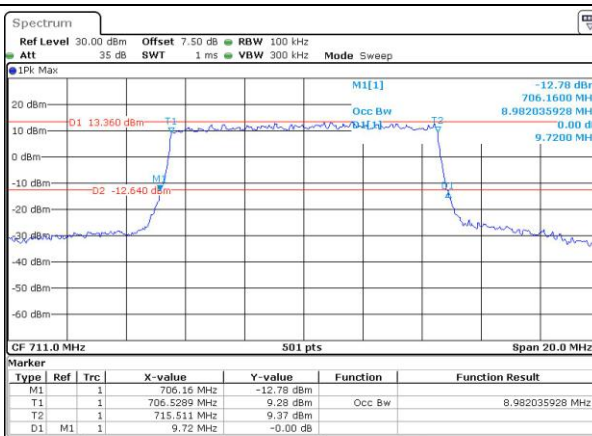
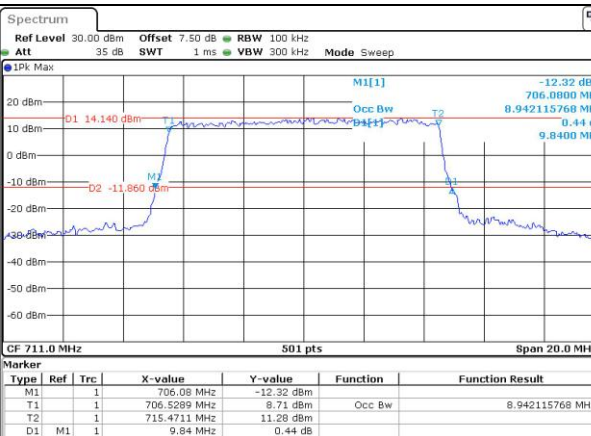
Lowest

ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 20:12:09ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 20:12:48

Middle

ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 20:13:29ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 20:13:59

Highest

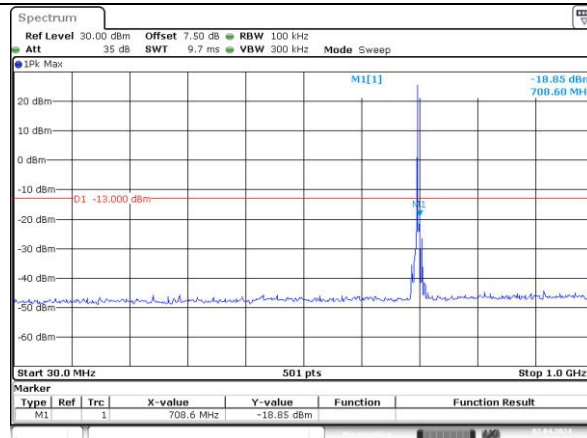
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Date: 1.APR.2024 20:14:39ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 1.APR.2024 20:15:13

Spurious Emissions at Antenna Terminal

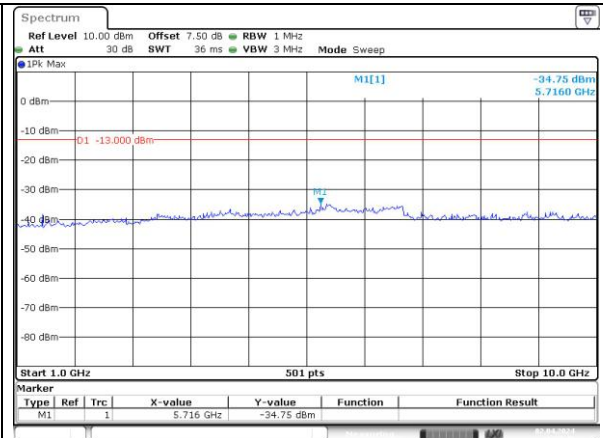
Channel

5MHz Bandwidth QPSK

Lowest

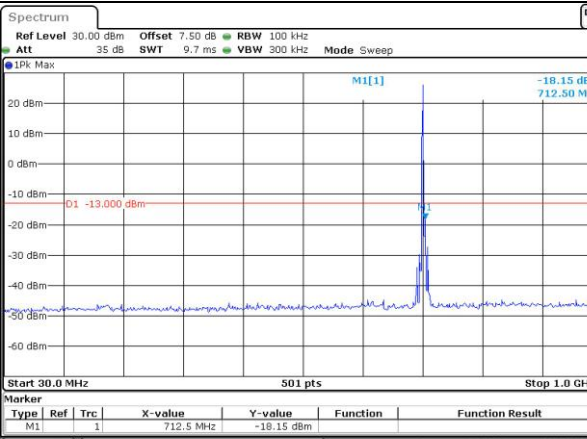


ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:27:10

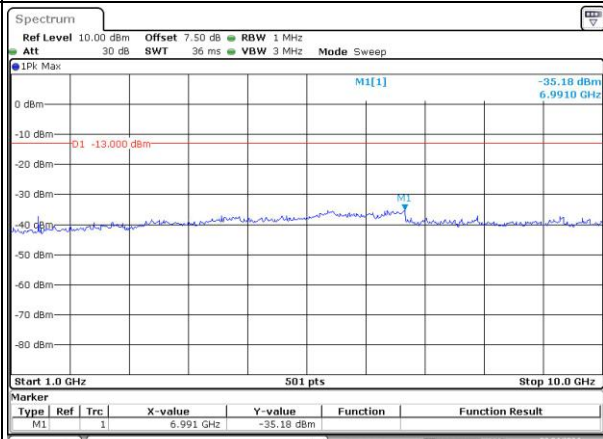


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Date: 2.APR.2024 21:27:40

Middle

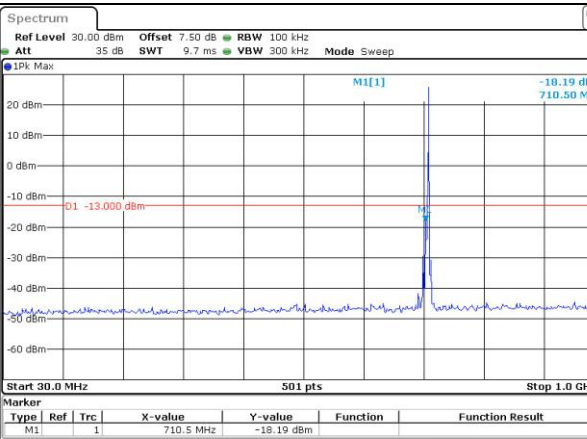


ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:30:05

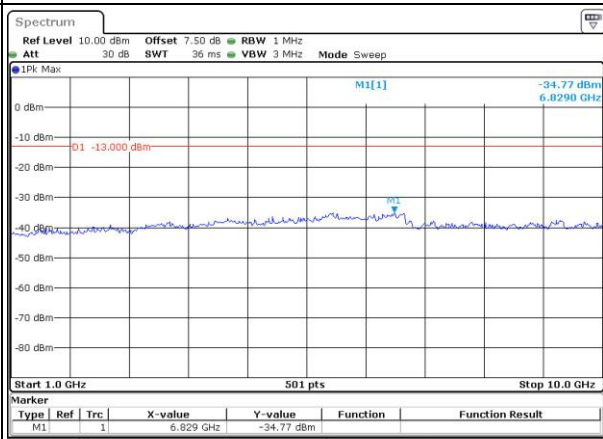


ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:30:27

Highest



ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:31:20



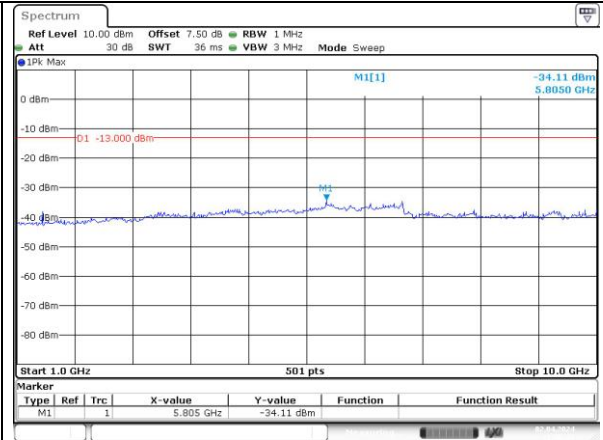
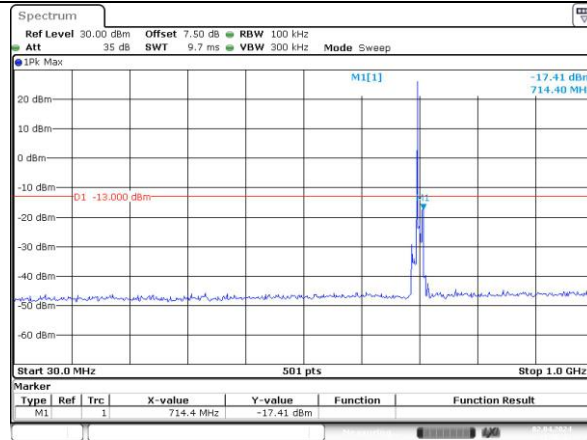
ProjectNo.:XMDN240206-08120E Tester:Jeff Wei
Date: 2.APR.2024 21:31:45

Spurious Emissions at Antenna Terminal

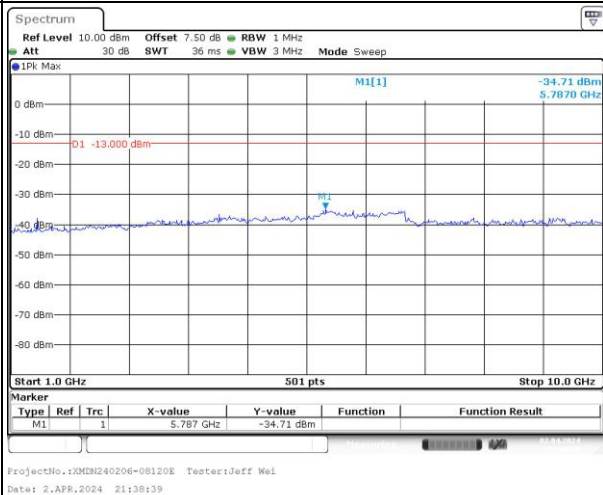
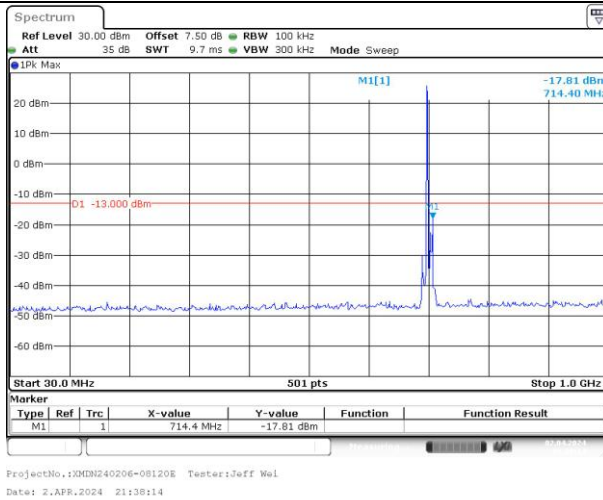
Channel

10MHz Bandwidth QPSK

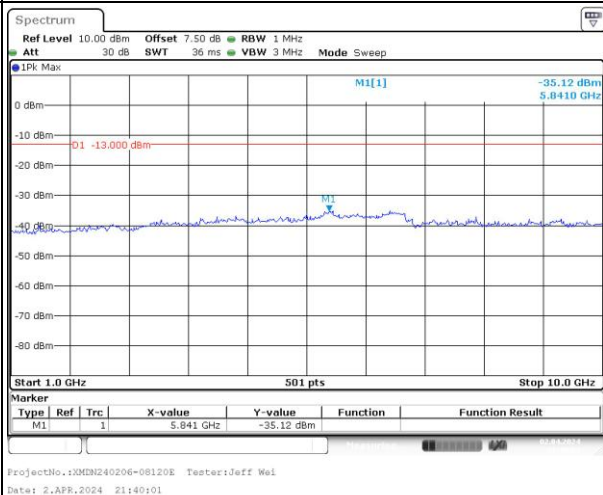
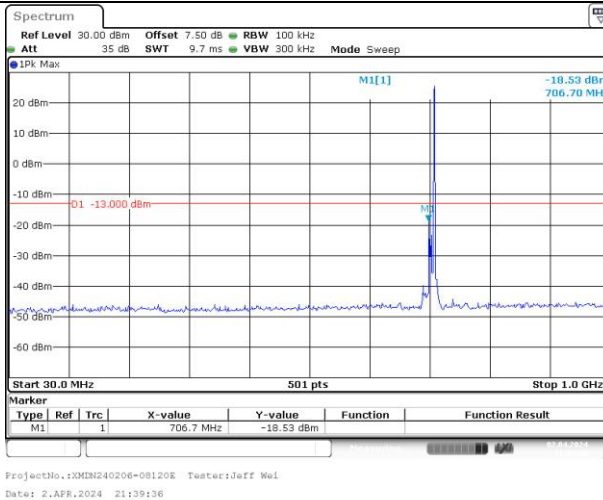
Lowest



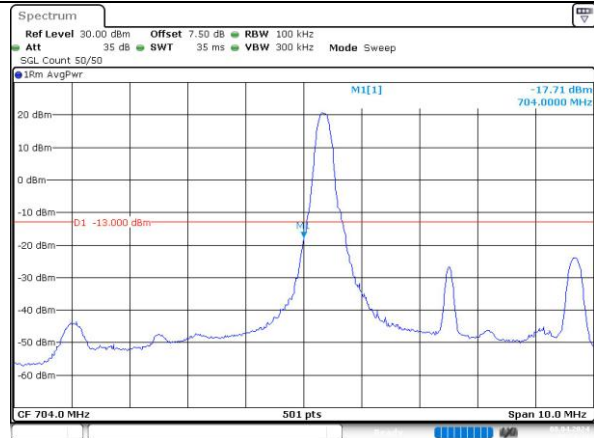
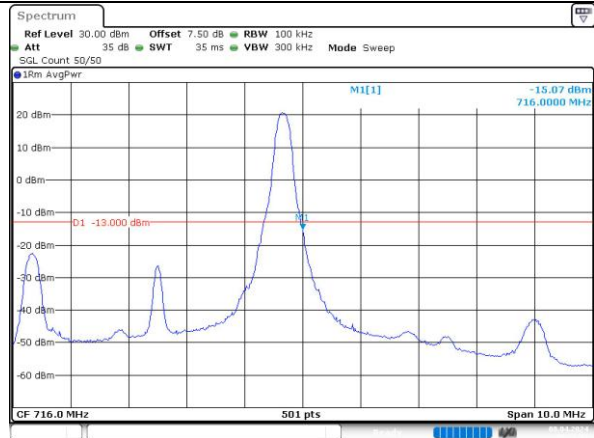
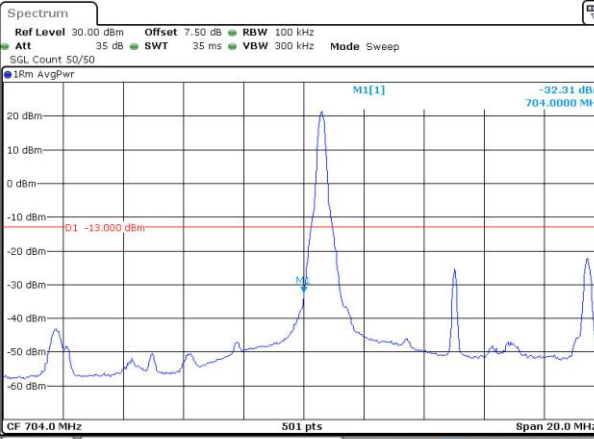
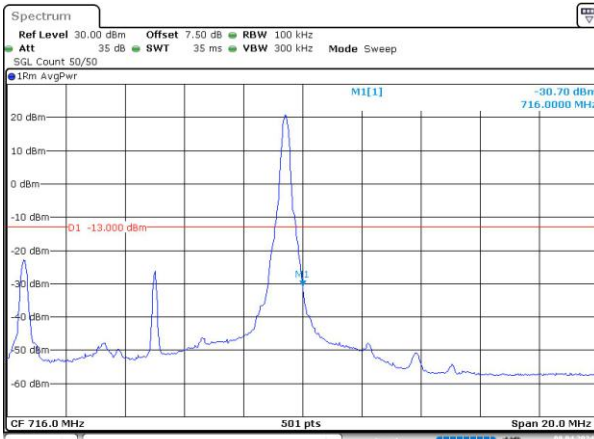
Middle



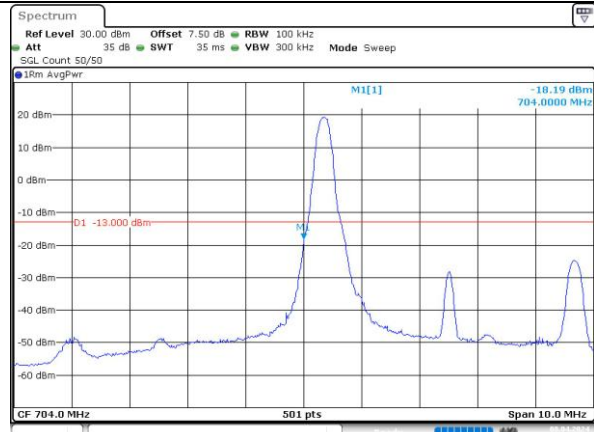
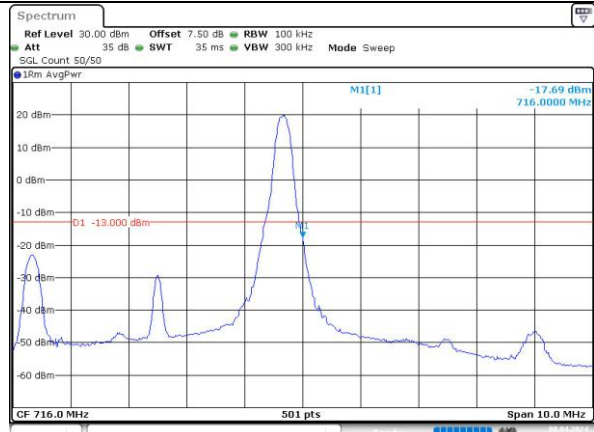
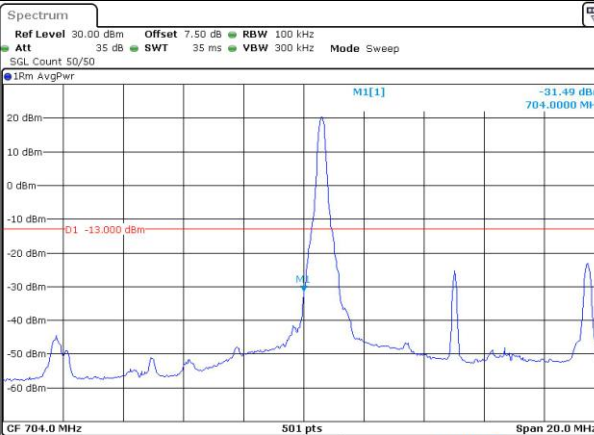
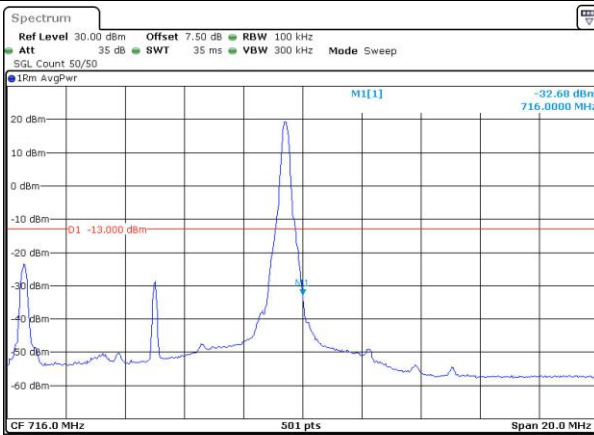
Highest



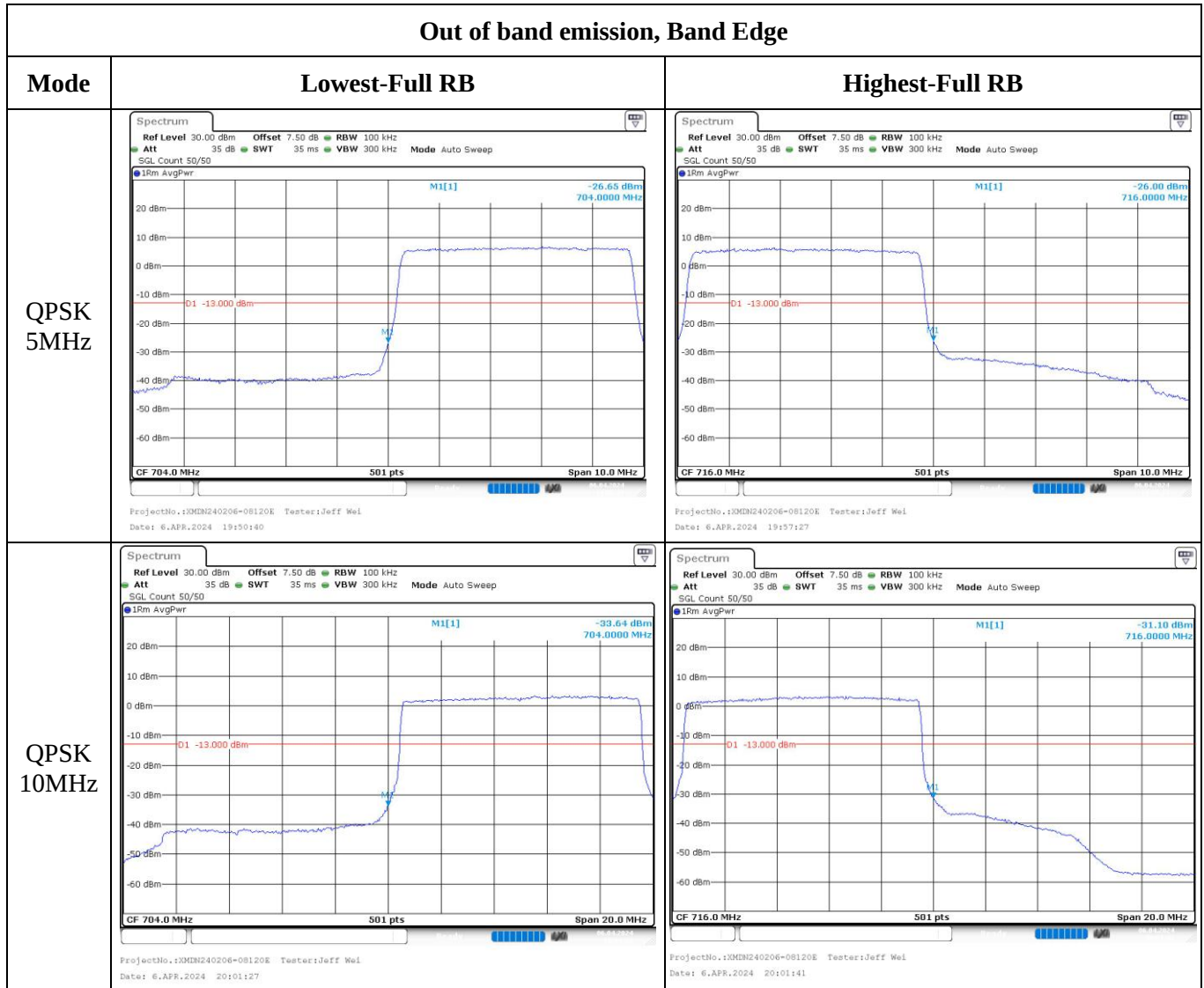
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
QPSK 5MHz	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:23:43	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:27:37
QPSK 10MHz	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:29:08	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:32:23

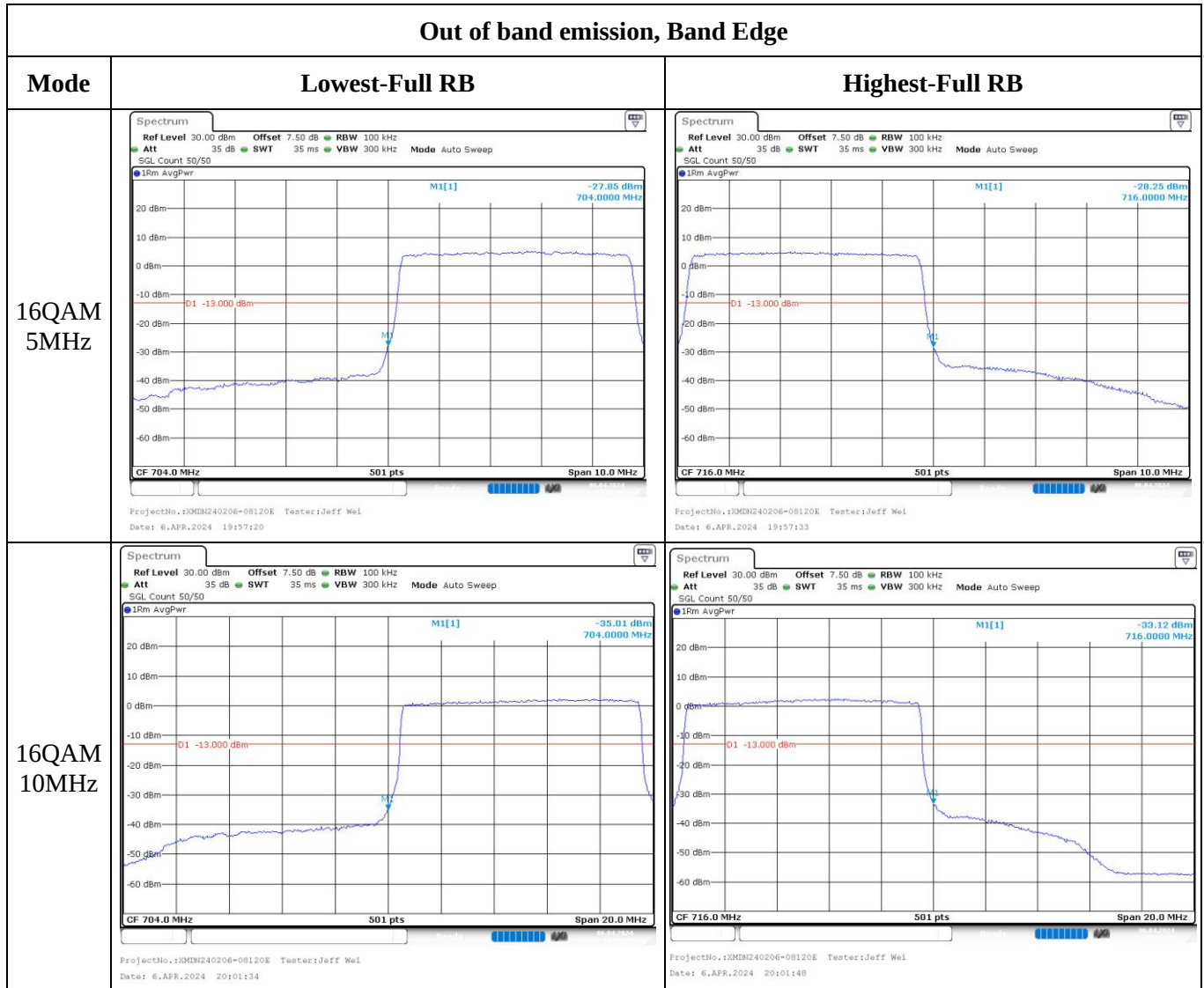
Out of band emission, Band Edge

Mode	Lowest-RB 1#0	Highest-RB 1#Max
16QAM 5MHz	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:27:07	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:28:06
16QAM 10MHz	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:29:42	 ProjectNo.:XMDN240206-08120E Tester:Jeff Wei Date: 8.APR.2024 10:32:48

Out of band emission, Band Edge



Out of band emission, Band Edge



5.13 Antenna Port Test Data and Results for LTE Band 25

Serial Number:	2HPA-1	Test Date:	2024/4/1~2024/4/11
Test Site:	RF	Test Mode:	Transmitting
Tester:	Loge Long, Jeff Wei	Test Result:	Pass

Environmental Conditions:					
Temperature: (°C)	25.1~26.9	Relative Humidity: (%)	49~72	ATM Pressure: (kPa)	100.2~101.1

Test Equipment List and Details:					
Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101461	2023/11/27	2024/11/26
Micro-Coax	Coaxial Cable	UFB205A	323308-024	2024/1/2	2025/1/1
Minl-Clruiuts	Coaxial Power Splitters & Combiner	ZFRSC-183-S+	SF448201614	2024/2/25	2025/2/24
R&S	Wideband Radio Communication Tester	CMW500	110479	2023/10/18	2024/10/17
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30173	2023/10/18	2024/10/17
All-sun	Clamp Meter	EM305A	8348897	2023/8/3	2024/8/2
TDK-Lambda	DC Power Supply	Z+60-14	F-08-EM038-1	N/A	N/A

* Statement of Traceability: Bay Area Compliance Laboratories Corp. (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:**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	23.13	22.7	23.31	23.73	33
	RB1#3	23.16	22.61	23.09		
	RB1#5	23.09	22.72	22.97		
	RB3#0	23.05	22.68	22.81		
	RB3#3	23.04	22.64	22.87		
	RB6#0	22.11	21.91	21.92		
1.4MHz 16QAM	RB1#0	22.74	21.55	22.54	23.26	33
	RB1#3	22.84	21.65	22.27		
	RB1#5	22.7	21.38	22.02		
	RB3#0	22.42	21.81	21.87		
	RB3#3	22.37	21.66	21.83		
	RB6#0	20.87	20.53	21.05		
3MHz QPSK	RB1#0	23.34	22.97	23.15	23.82	33
	RB1#8	23.35	23.06	22.86		
	RB1#14	23.4	22.8	22.73		
	RB6#0	22.17	21.95	22		
	RB6#9	22.15	21.94	22.06		
	RB15#0	22.24	22.02	22.12		
3MHz 16QAM	RB1#0	22.1	22.33	22.58	23	33
	RB1#8	21.9	22.06	22.47		
	RB1#14	21.9	22.07	22.28		
	RB6#0	20.91	20.95	21.18		
	RB6#9	20.88	20.85	20.8		
	RB15#0	21.14	21.01	21.2		
5MHz QPSK	RB1#0	22.99	23	23.23	23.65	33
	RB1#13	22.99	22.68	23.18		
	RB1#24	22.9	22.83	23.11		
	RB15#0	22.03	22.11	22.29		
	RB15#10	21.97	22.02	22.33		
	RB25#0	22.11	22.1	22.39		
5MHz 16QAM	RB1#0	21.88	21.61	22.35	23.22	33
	RB1#13	22.23	21.79	22.8		
	RB1#24	21.9	21.58	22.55		
	RB15#0	21.19	20.98	21.42		
	RB15#10	21.2	20.87	21.26		
	RB25#0	21.26	21.01	21.3		
10MHz QPSK	RB1#0	23.03	22.82	22.41	23.63	33
	RB1#25	23.21	22.38	22.79		
	RB1#49	22.87	22.48	22.55		
	RB25#0	22.01	21.58	21.6		

	RB25#25	22.02	21.51	21.59		
	RB50#0	21.96	21.61	21.68		
10MHz 16QAM	RB1#0	22.4	21.34	21.94	22.87	33
	RB1#25	22.17	21.31	22.45		
	RB1#49	22.44	21.26	21.52		
	RB25#0	21.02	20.7	20.53		
	RB25#25	20.94	20.64	20.55		
	RB50#0	20.79	20.49	20.67		
15MHz QPSK	RB1#0	22.62	22.28	22.12	23.22	33
	RB1#38	22.8	22.18	22.33		
	RB1#74	22.78	22.18	22.37		
	RB36#0	21.59	21.39	21.36		
	RB36#39	21.59	21.4	21.46		
	RB75#0	21.47	21.35	21.33		
15MHz 16QAM	RB1#0	22.14	21.49	21.51	22.56	33
	RB1#38	22.09	21.48	21.72		
	RB1#74	22.03	21.3	21.27		
	RB36#0	20.46	20.29	20.26		
	RB36#39	20.51	20.18	20.51		
	RB75#0	20.54	20.22	20.43		
20MHz QPSK	RB1#0	23.1	23.12	22.85	23.88	33
	RB1#50	23.46	23.25	23.22		
	RB1#99	23.29	22.81	23.08		
	RB50#0	22.17	22.18	21.98		
	RB50#50	22.2	22.14	22.12		
	RB100#0	22.21	22.06	21.93		
20MHz 16QAM	RB1#0	22.43	22.75	21.96	23.4	33
	RB1#50	22.31	22.98	22.68		
	RB1#99	22.42	22.72	22.09		
	RB50#0	21.22	21.09	20.91		
	RB50#50	21.27	20.99	21.02		
	RB100#0	21.22	20.98	20.91		

Note:

EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

The result was calculated with the maximum combination of Gr – Lc

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	3.83	4.38	4.43	13
	RB100#0	3.83	3.88	4.12	13
20MHz 16QAM	RB1#0	4.75	5.33	5.13	13
	RB100#0	5.59	5.59	5.65	13
Result:					Pass

Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.108	1.102	1.102	1.296	1.32	1.338
1.4MHz 16QAM	1.102	1.102	1.108	1.32	1.32	1.332
3MHz QPSK	2.695	2.695	2.695	2.928	2.952	2.964
3MHz 16QAM	2.683	2.683	2.695	2.964	2.952	2.94
5MHz QPSK	4.511	4.491	4.511	5	5.02	5
5MHz 16QAM	4.531	4.531	4.511	5.02	5.02	4.98
10MHz QPSK	8.942	8.942	8.942	9.84	9.76	9.72
10MHz 16QAM	8.942	8.982	8.942	9.72	9.76	9.68
15MHz QPSK	13.353	13.473	13.473	14.76	14.82	14.88
15MHz 16QAM	13.473	13.473	13.473	14.82	14.88	14.76
20MHz QPSK	17.884	17.964	17.884	19.28	19.6	19.36
20MHz 16QAM	17.884	17.884	17.964	19.52	19.36	19.52
Note: The test plots please refer to the Plots of Occupied Bandwidth						

Spurious Emissions at Antenna Terminal	
Result:	Pass, Test was performed at RB1#0, please refer to the test plots of Spurious Emissions at Antenna Terminal.

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

Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	7.7	1851.132	1850.000	1913.927	1915.000
	-20	7.7	1851.135	1850.000	1913.933	1915.000
	-10	7.7	1851.123	1850.000	1913.924	1915.000
	0	7.7	1851.123	1850.000	1913.939	1915.000
	10	7.7	1851.111	1850.000	1913.924	1915.000
	20	7.7	1851.138	1850.000	1913.942	1915.000
	30	7.7	1851.141	1850.000	1913.948	1915.000
	40	7.7	1851.141	1850.000	1913.969	1915.000
	50	7.7	1851.141	1850.000	1913.951	1915.000
Frequency Stability vs. Voltage	20	6.8	1851.165	1850.000	1913.954	1915.000
	20	8.8	1851.141	1850.000	1913.957	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	7.7	1851.046	1850.000	1914.001	1915.000
	-20	7.7	1851.037	1850.000	1914.004	1915.000
	-10	7.7	1851.037	1850.000	1914.010	1915.000
	0	7.7	1851.037	1850.000	1914.016	1915.000
	10	7.7	1851.034	1850.000	1914.001	1915.000
	20	7.7	1851.058	1850.000	1914.022	1915.000
	30	7.7	1851.073	1850.000	1914.028	1915.000
	40	7.7	1851.082	1850.000	1914.040	1915.000
	50	7.7	1851.064	1850.000	1914.037	1915.000
Frequency Stability vs. Voltage	20	6.8	1851.067	1850.000	1914.049	1915.000
	20	8.8	1851.064	1850.000	1914.025	1915.000
					Result:	Pass

Test Plots:

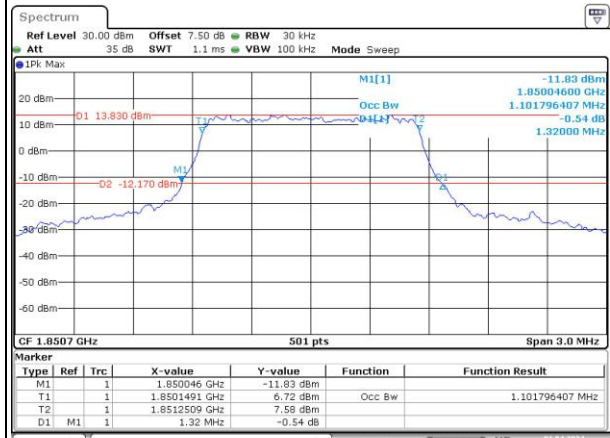
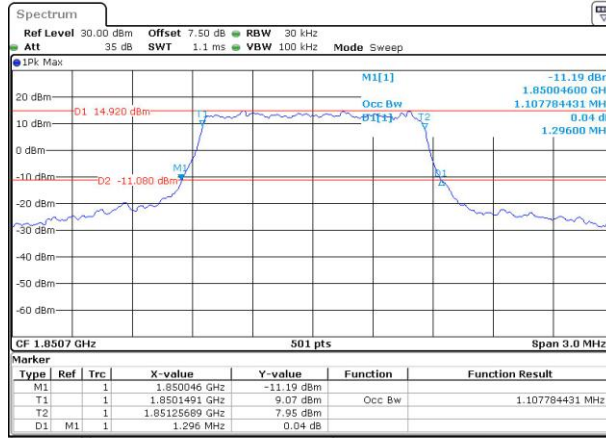
Occupied Bandwidth

Channel

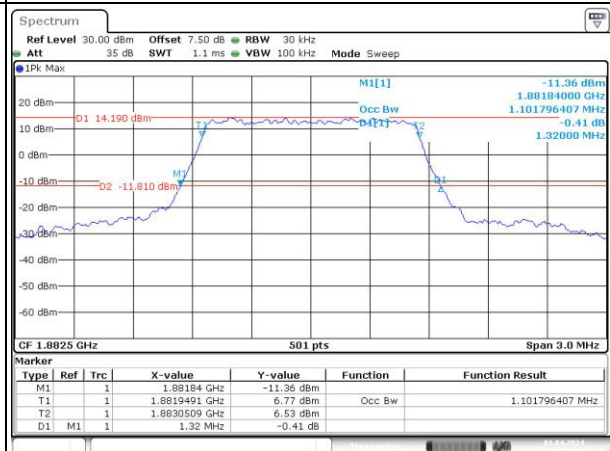
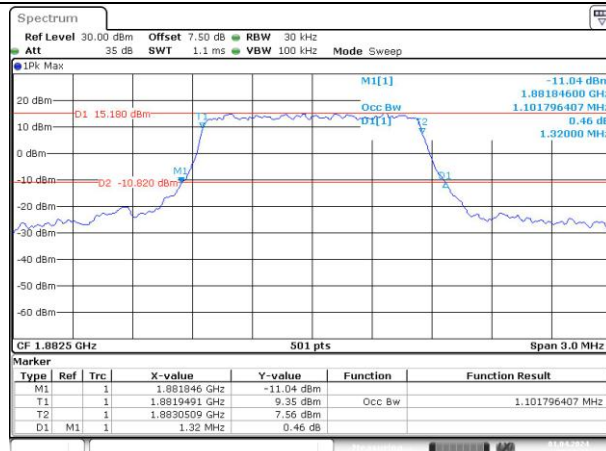
1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

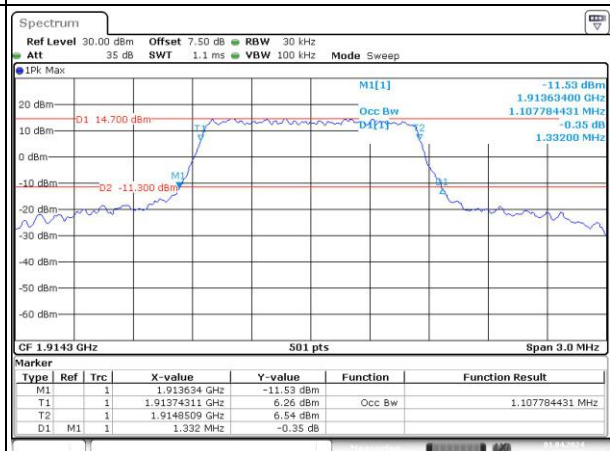
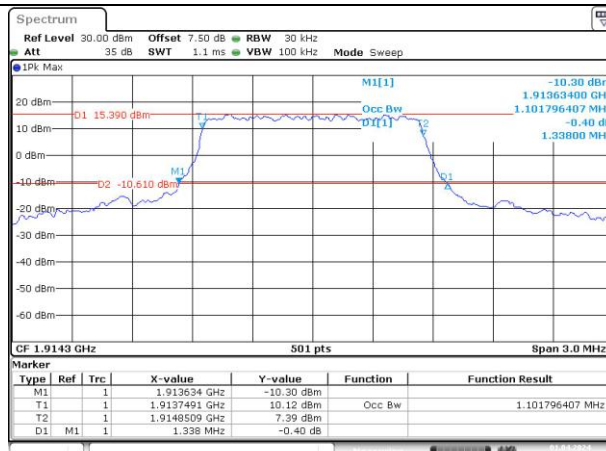
Lowest



Middle



Highest



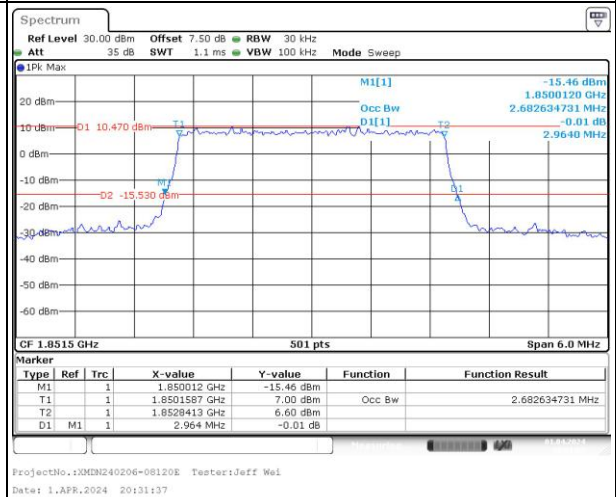
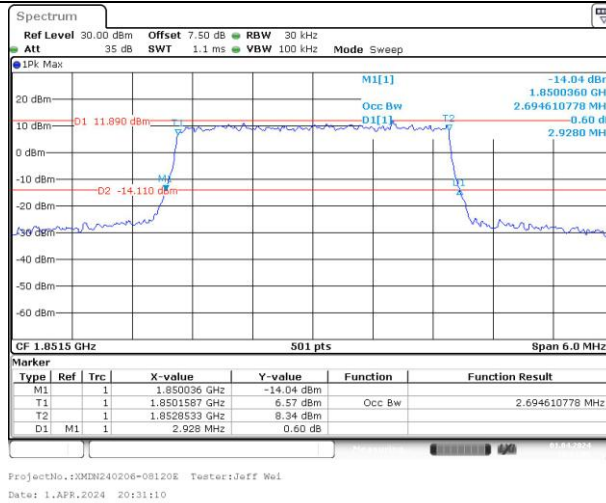
Occupied Bandwidth

Channel

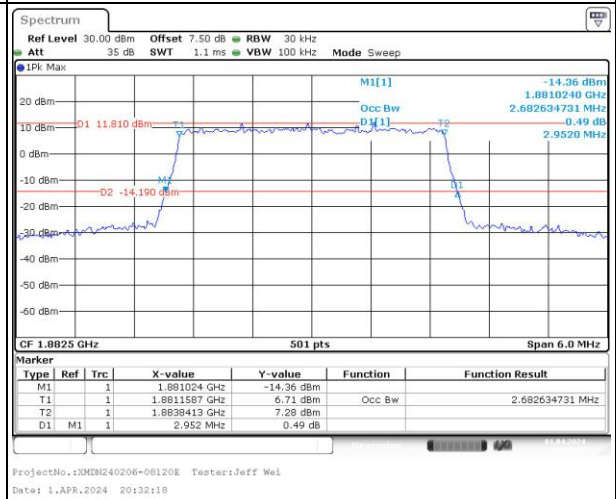
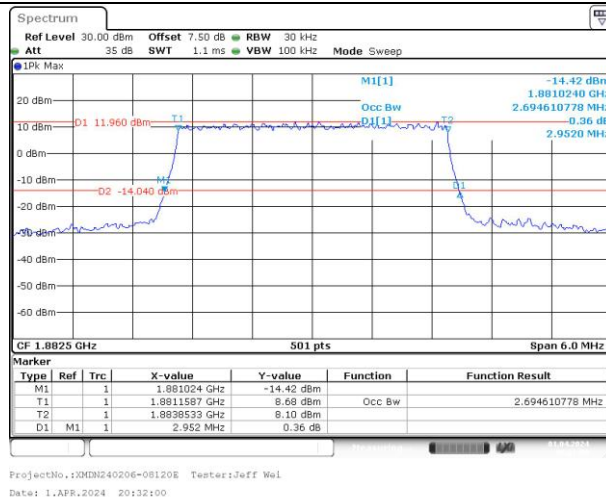
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

Lowest



Middle



Highest

