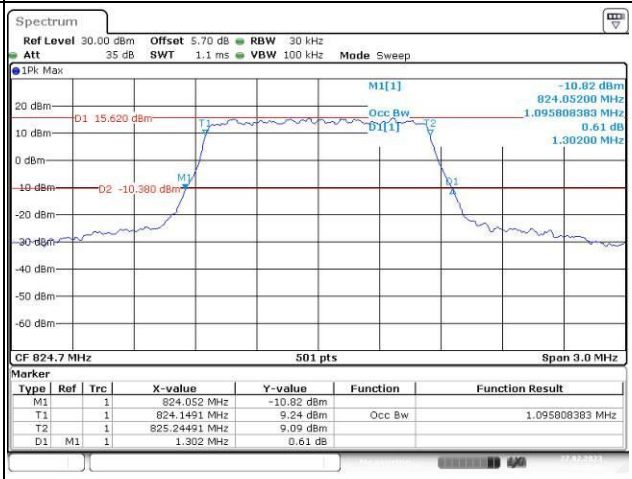
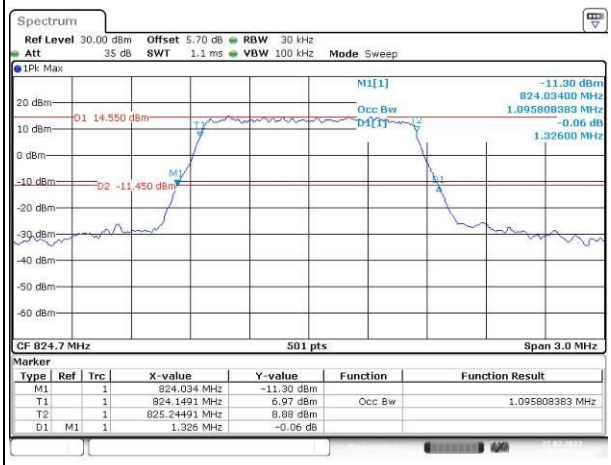
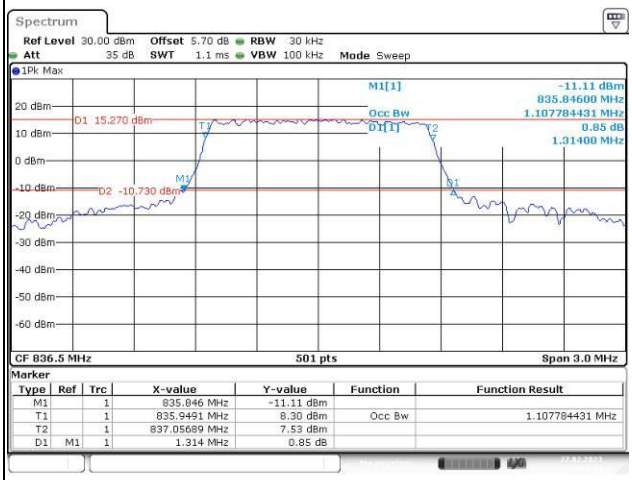
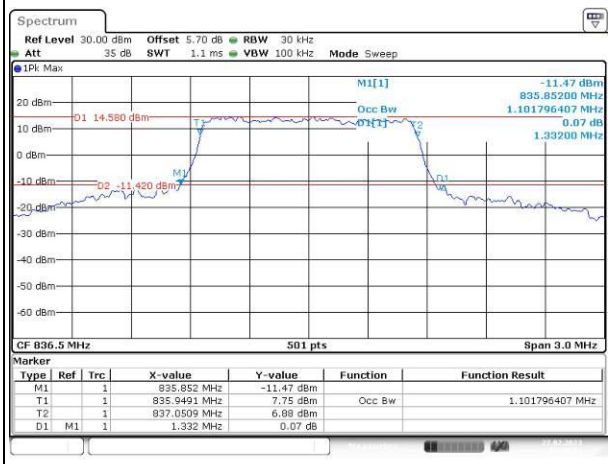
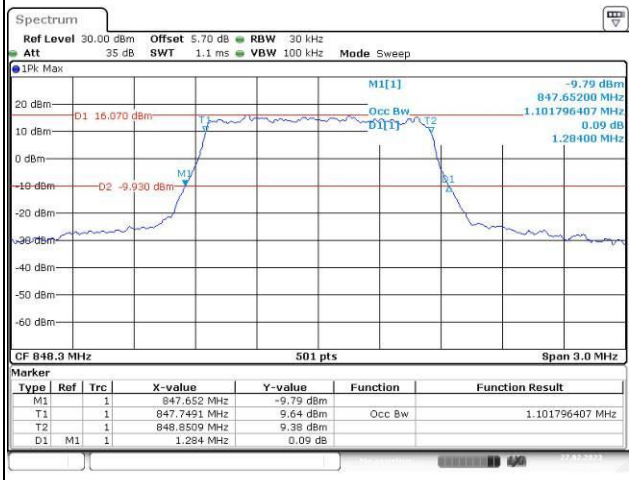
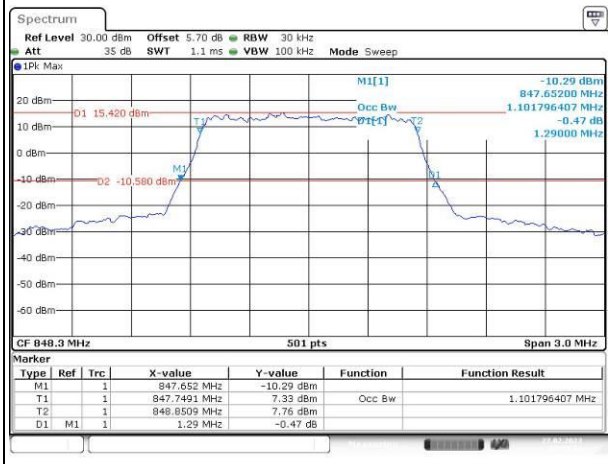
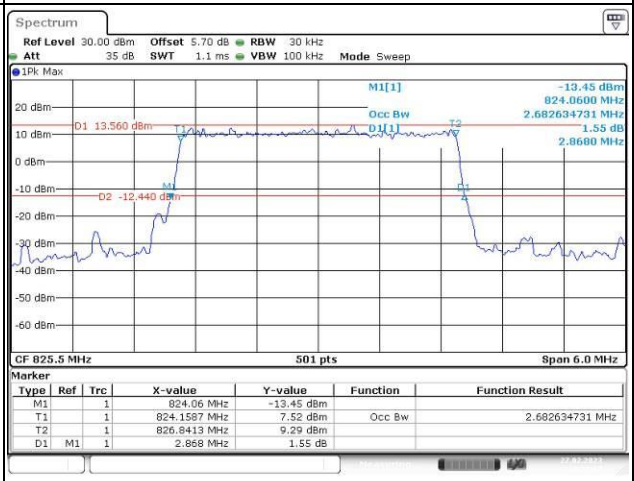
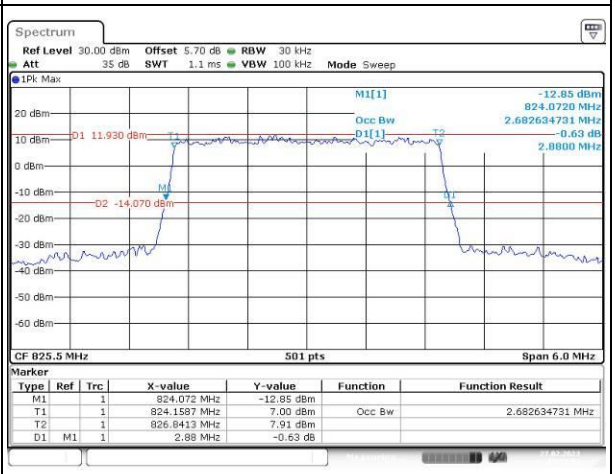
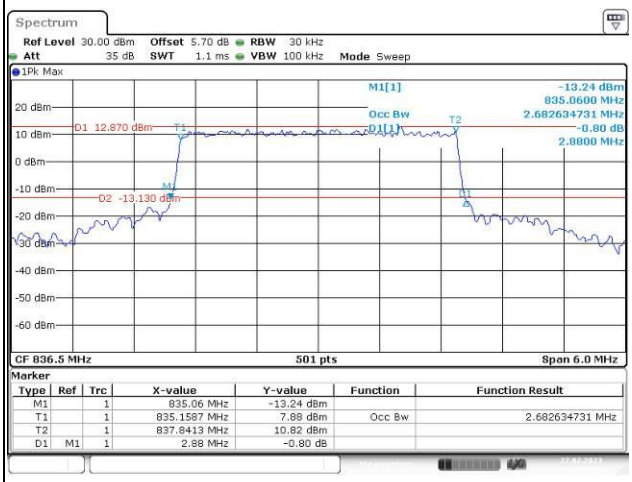
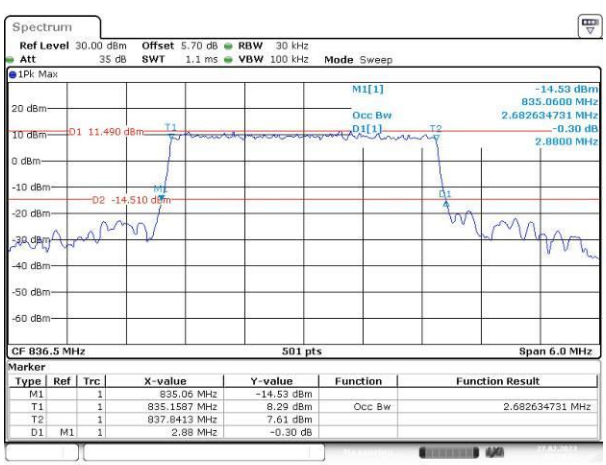
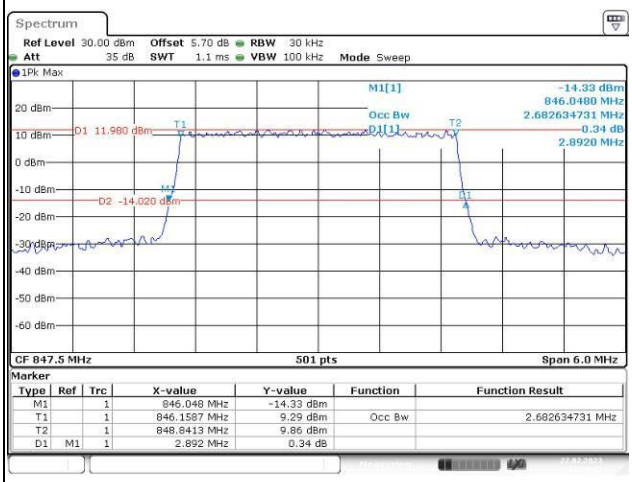
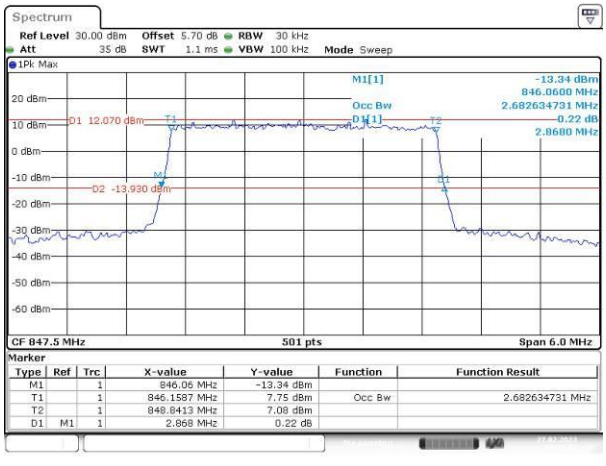
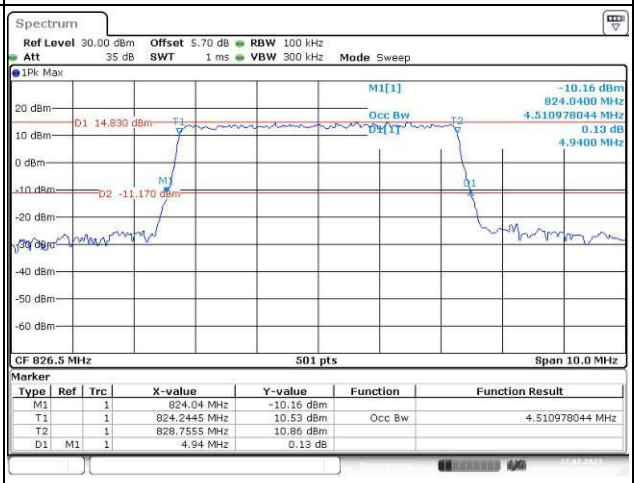
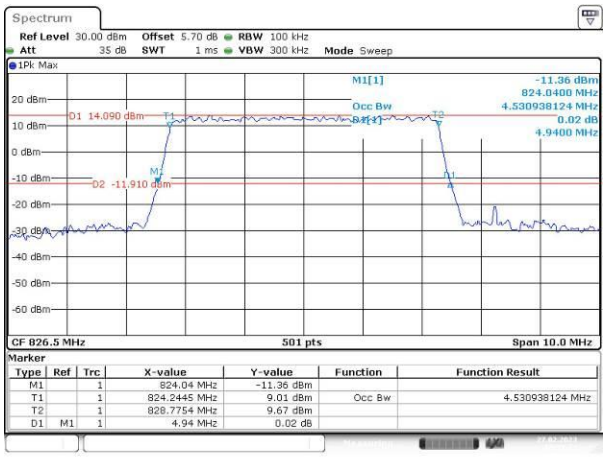
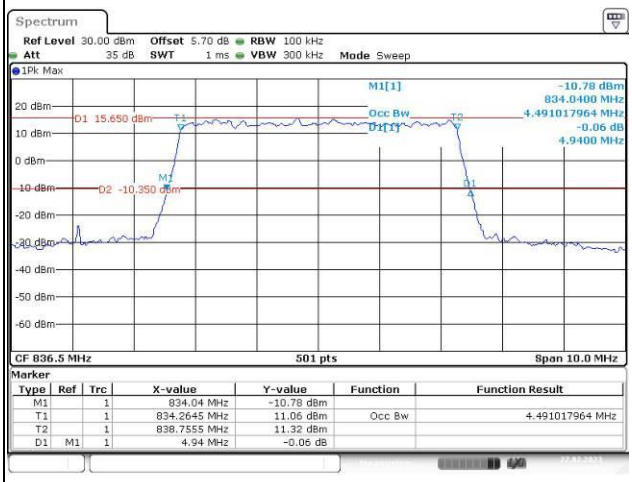
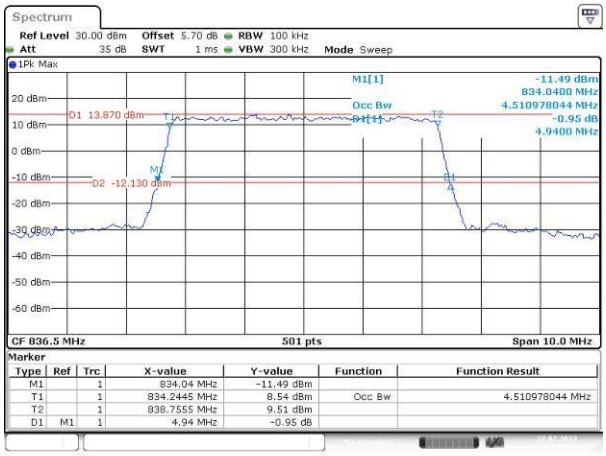
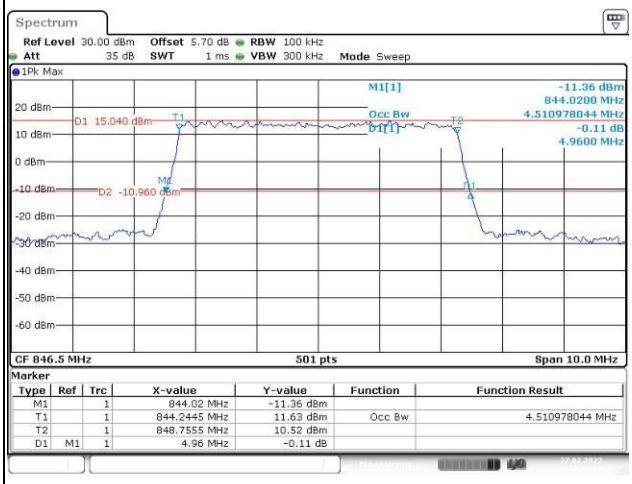
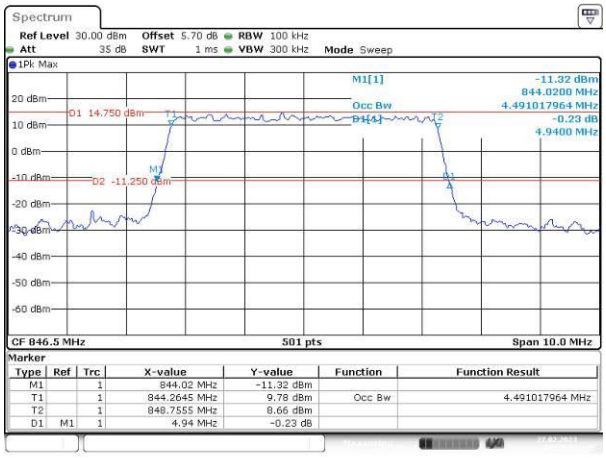
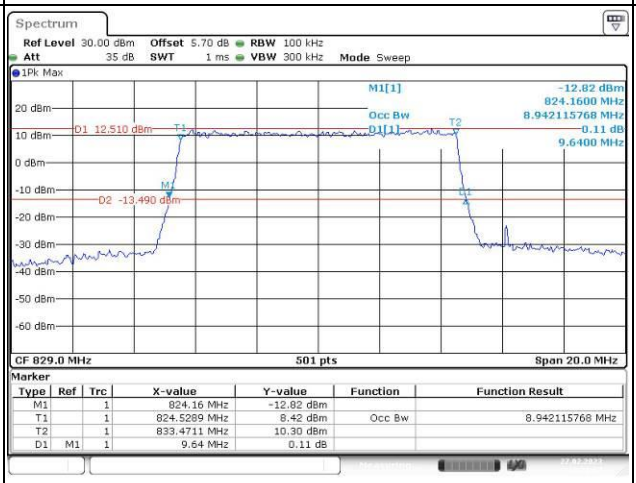
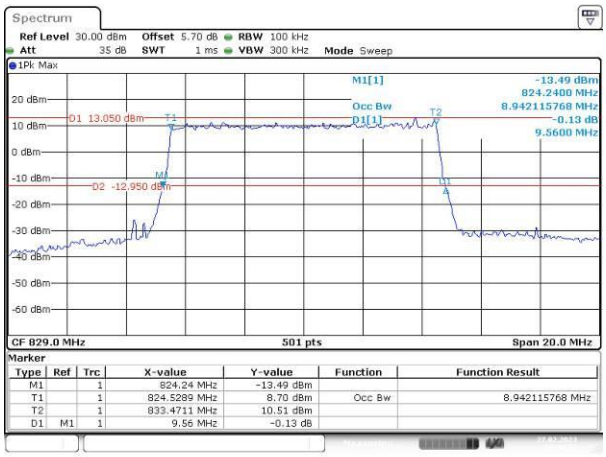
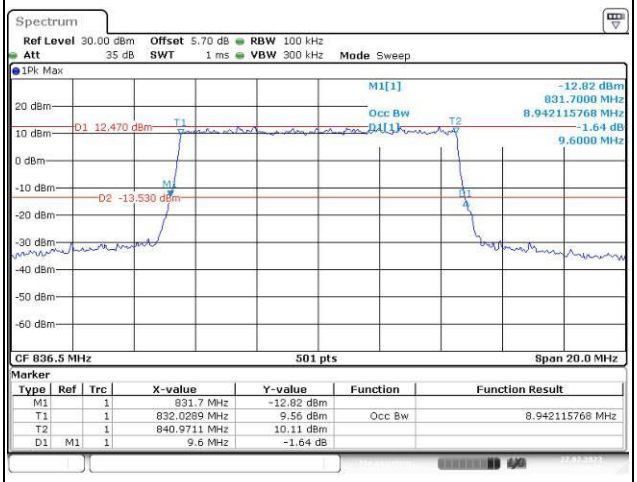
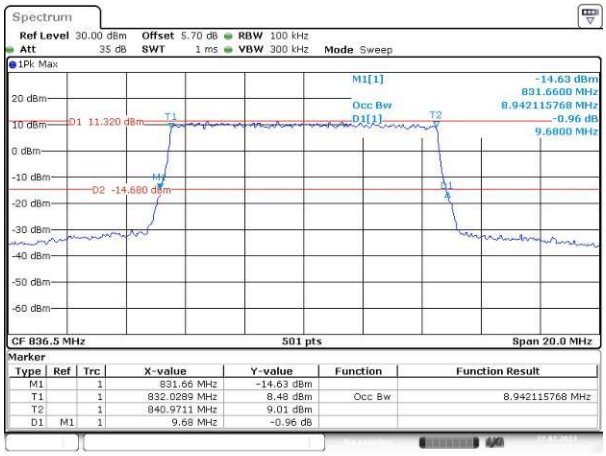
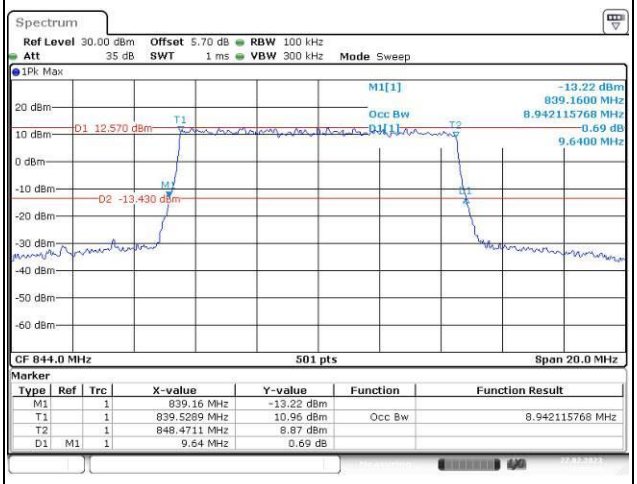
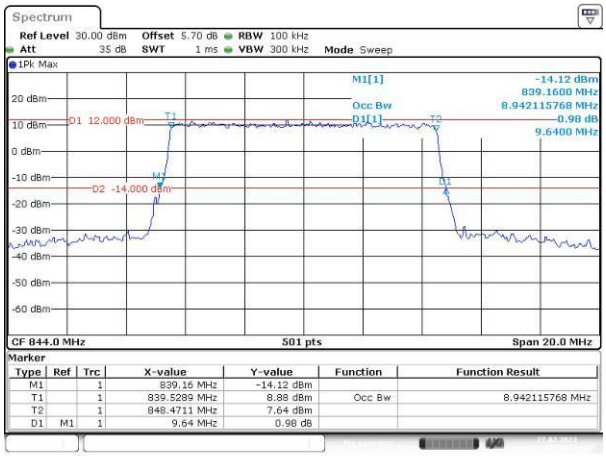
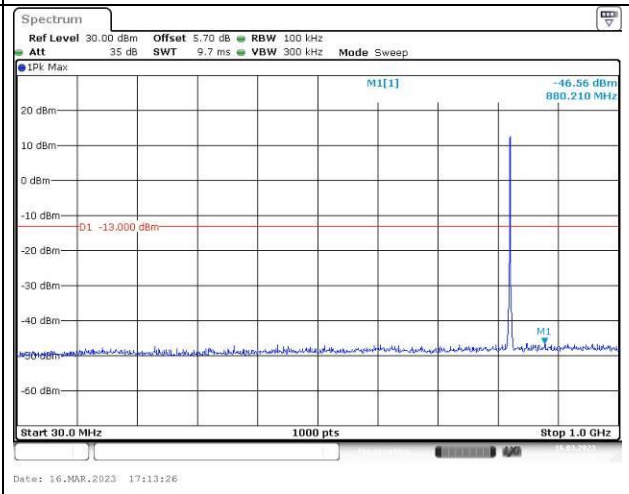
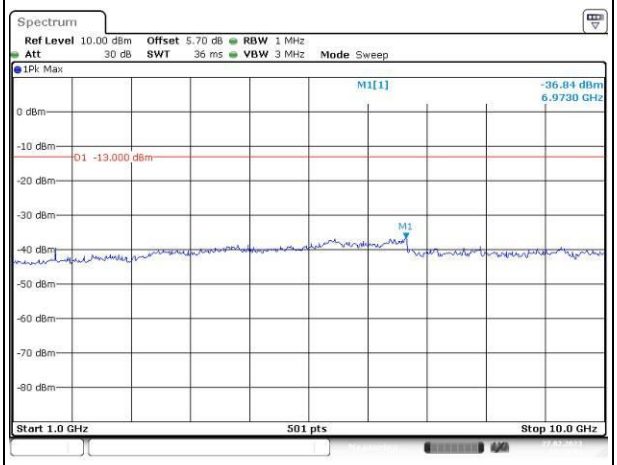
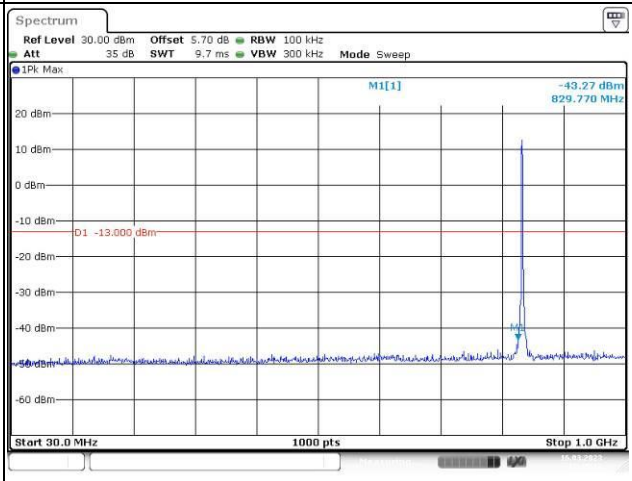
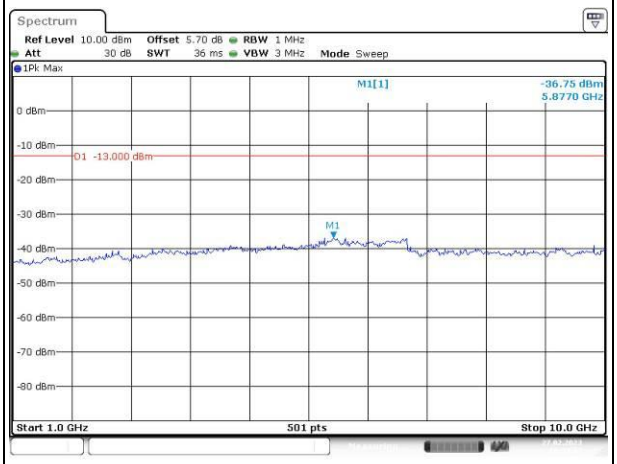
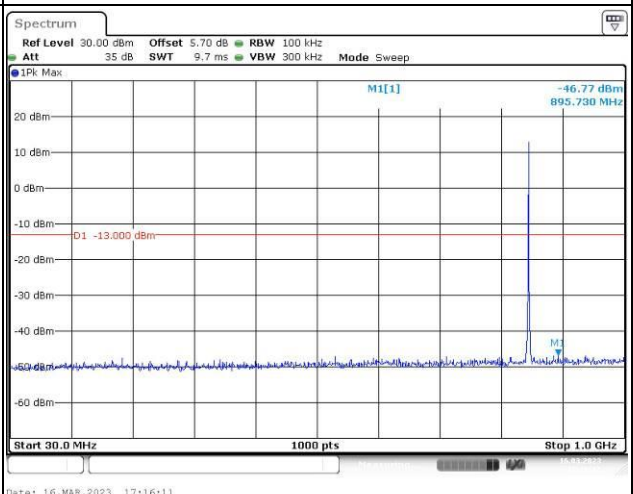
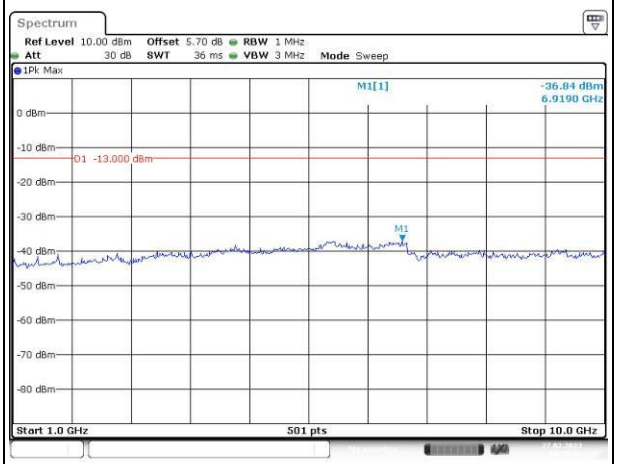
Test Plots(Note: The 5.7dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer)**:**

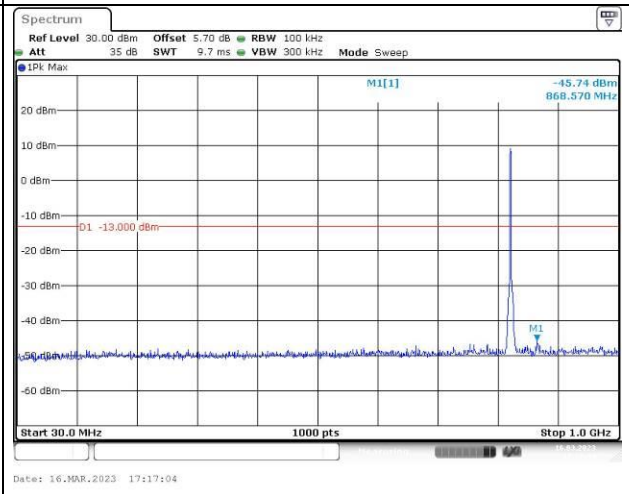
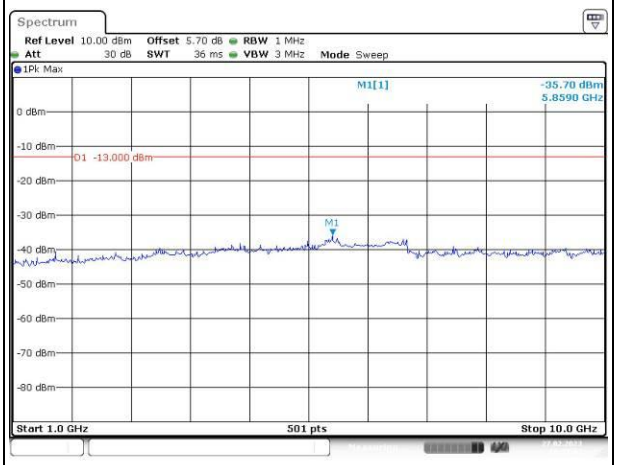
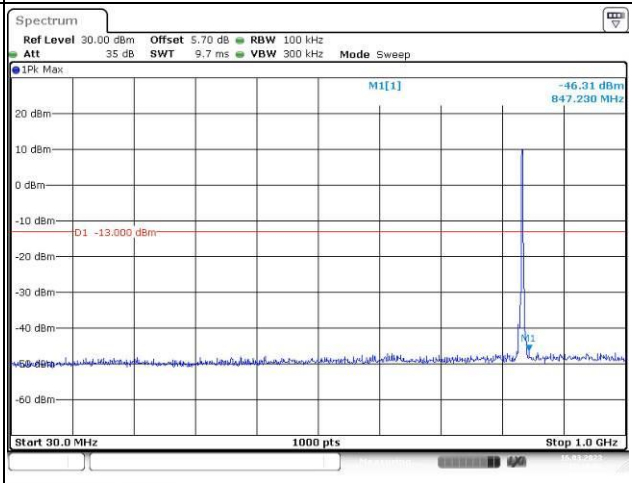
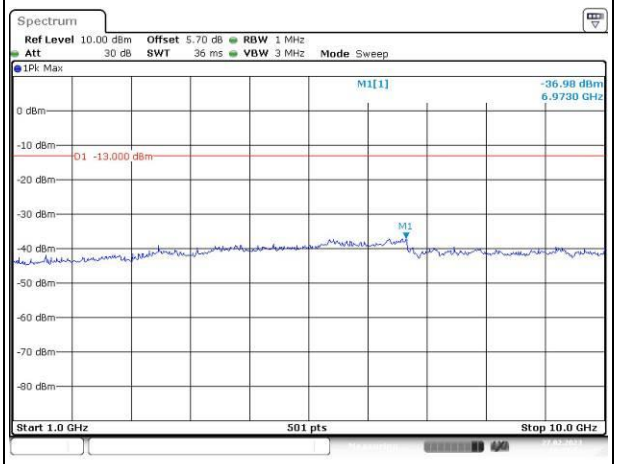
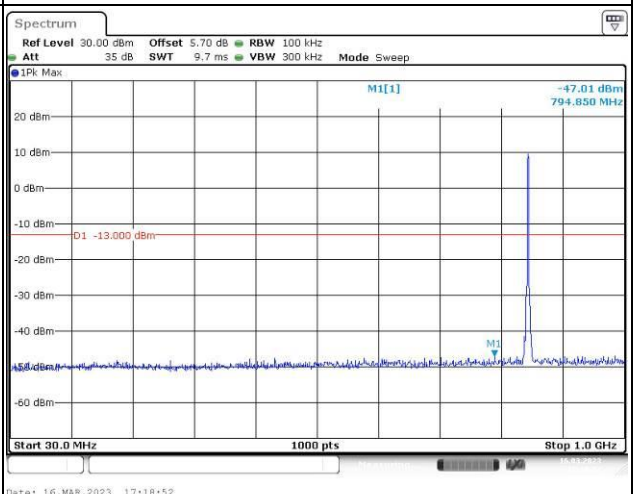
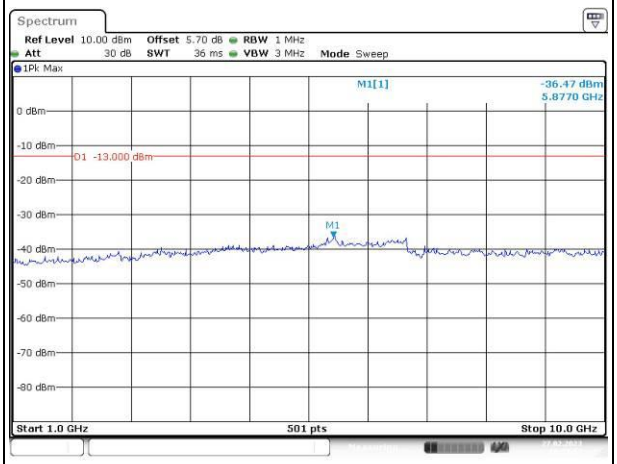
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

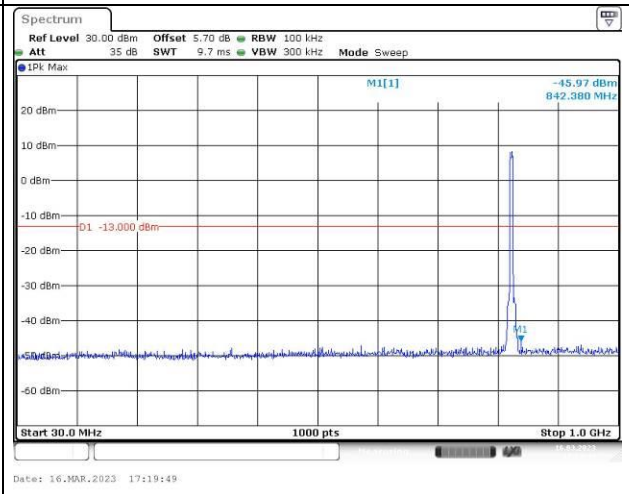
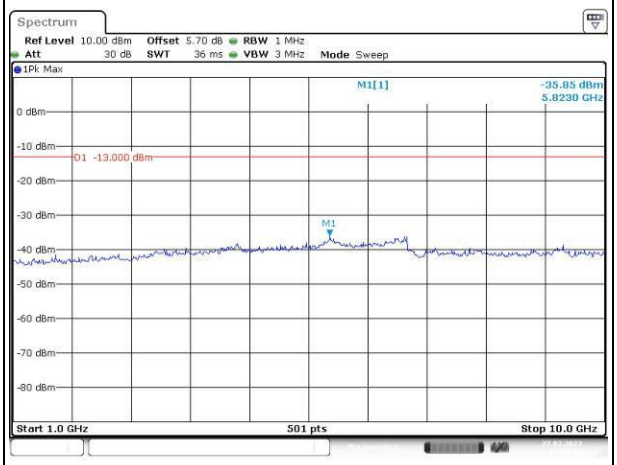
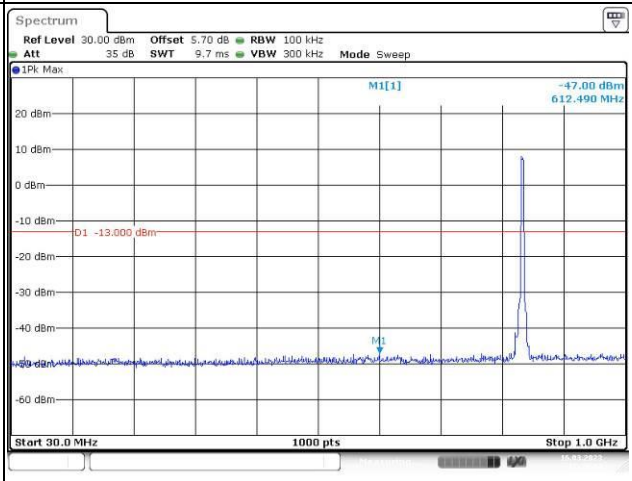
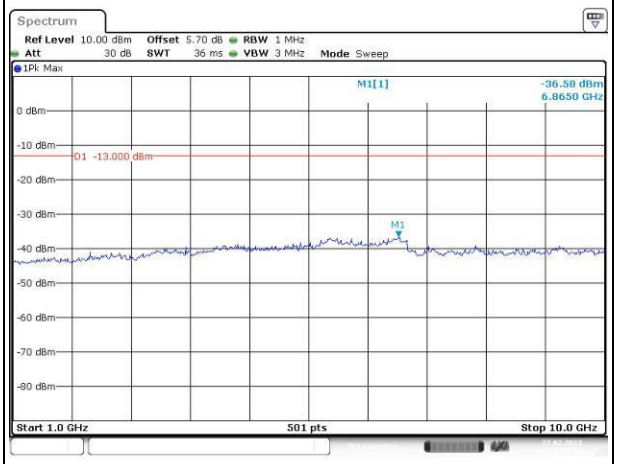
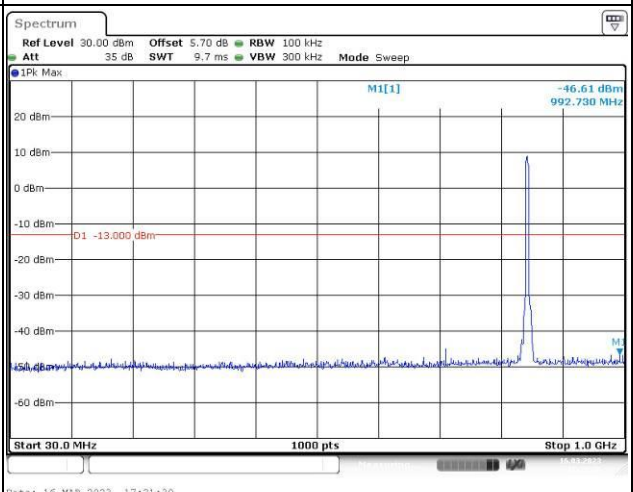
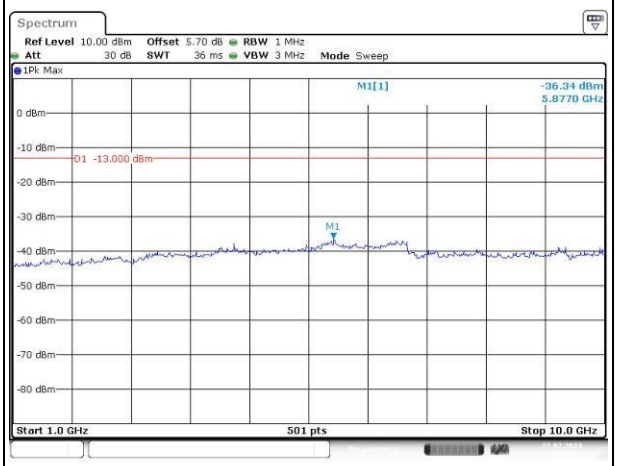
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

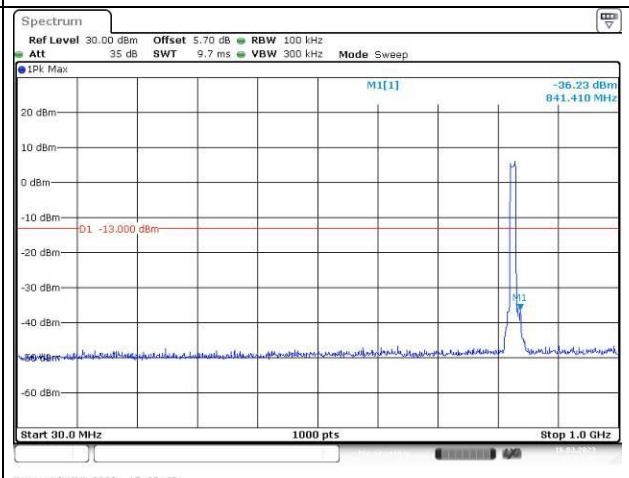
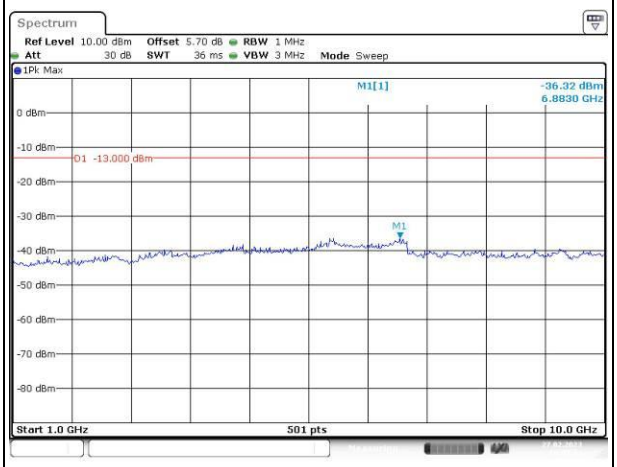
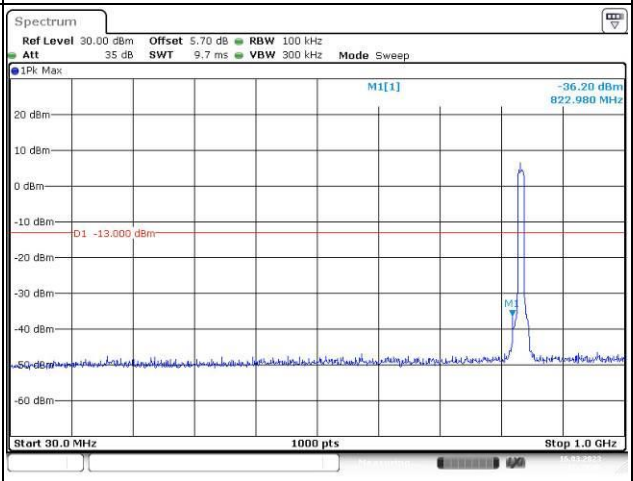
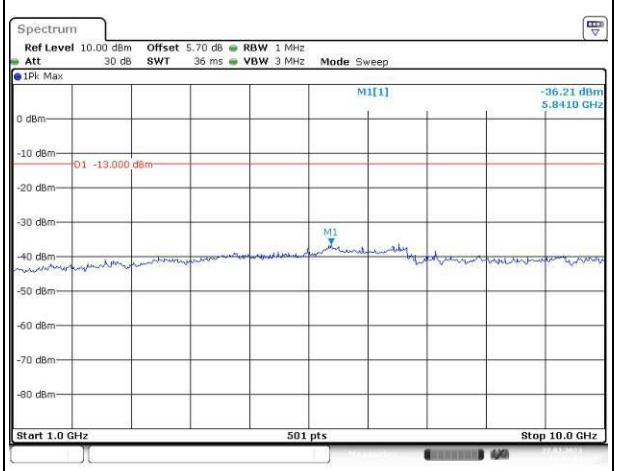
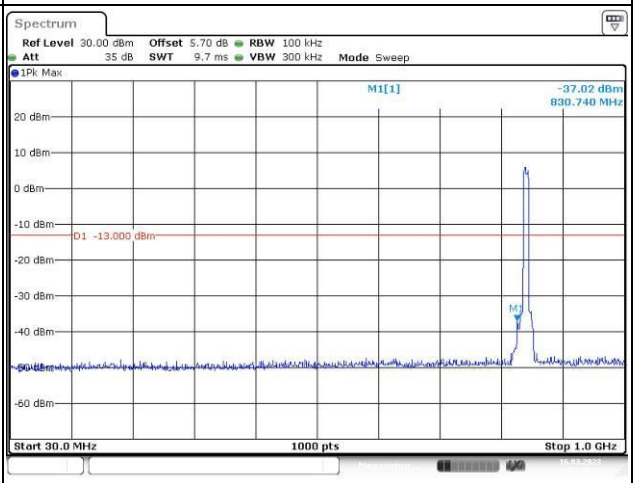
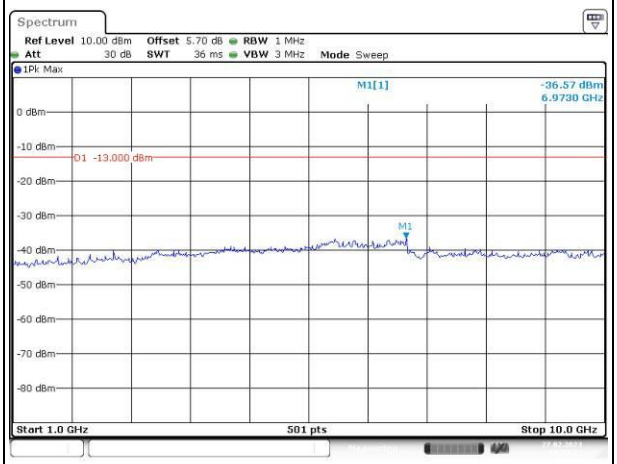
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

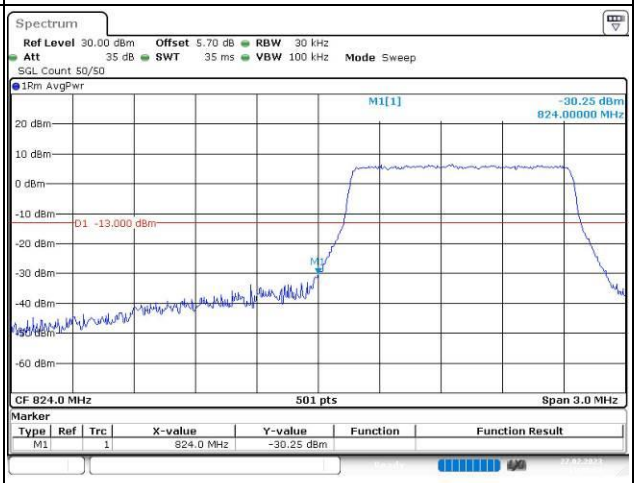
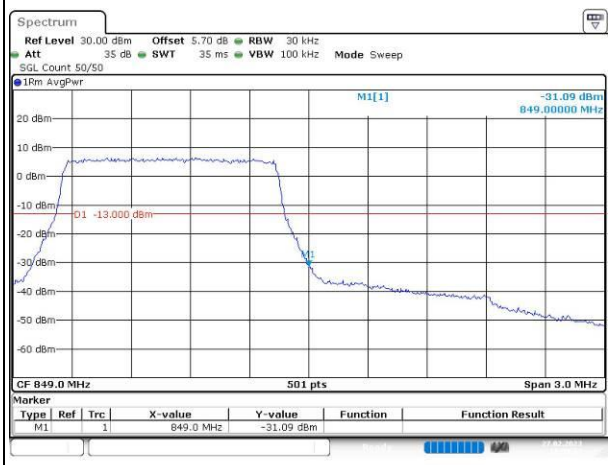
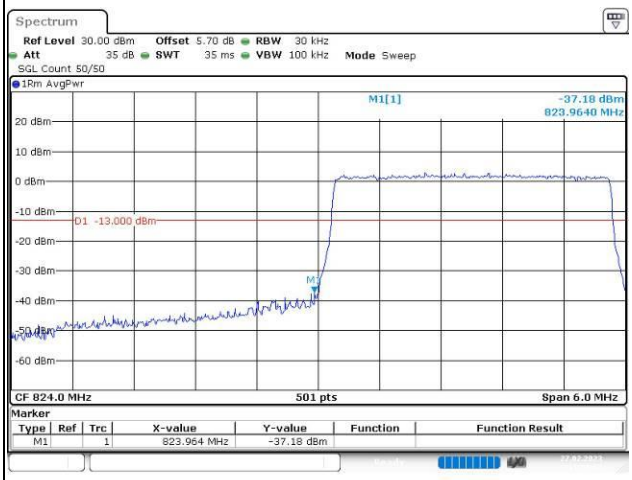
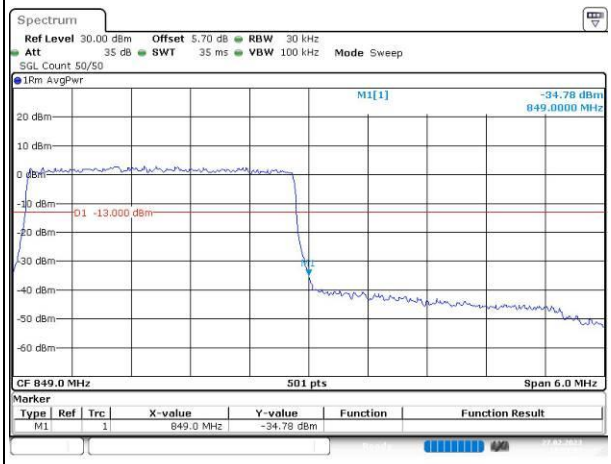
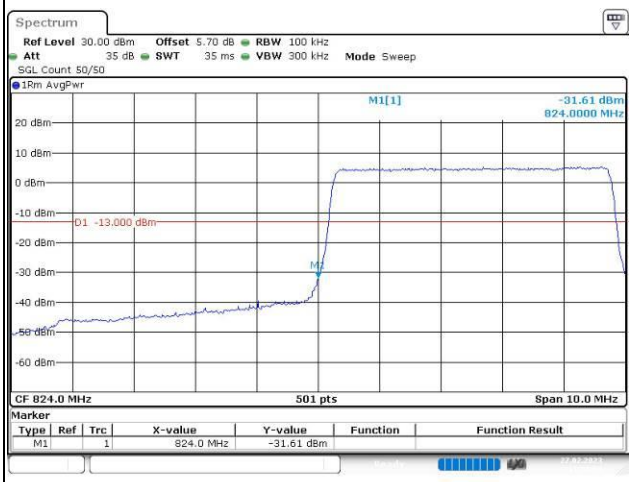
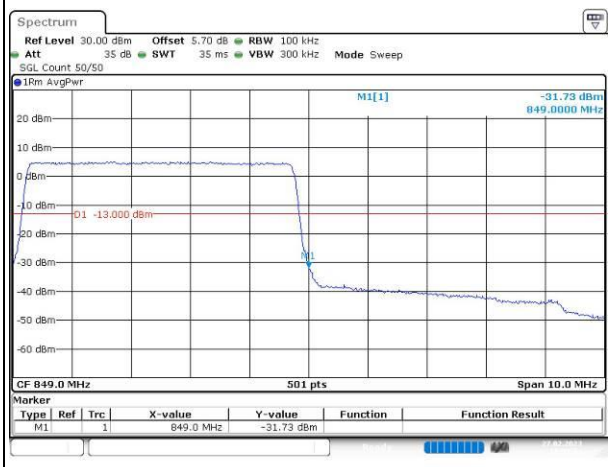
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

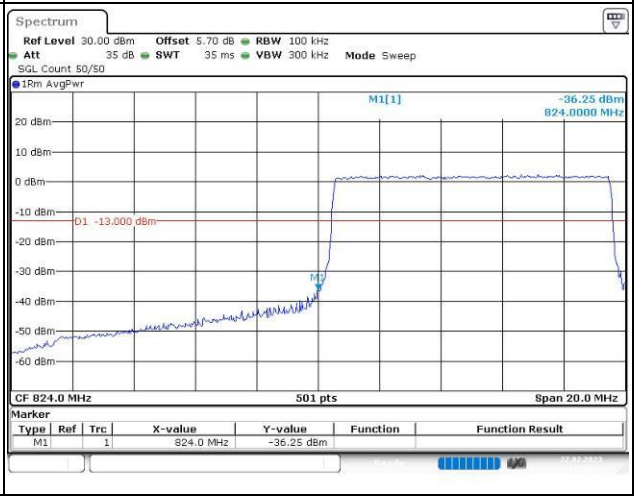
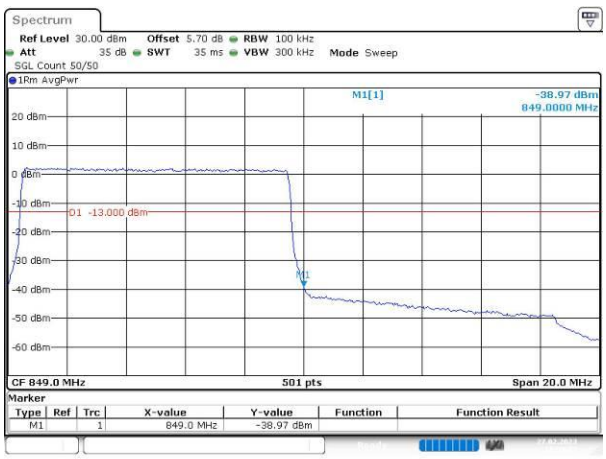
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

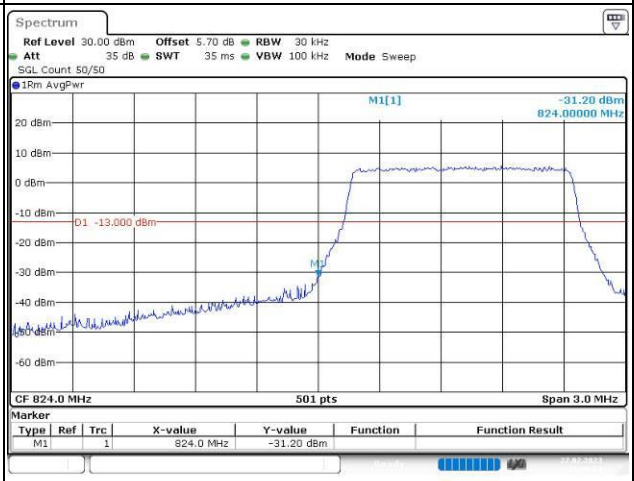
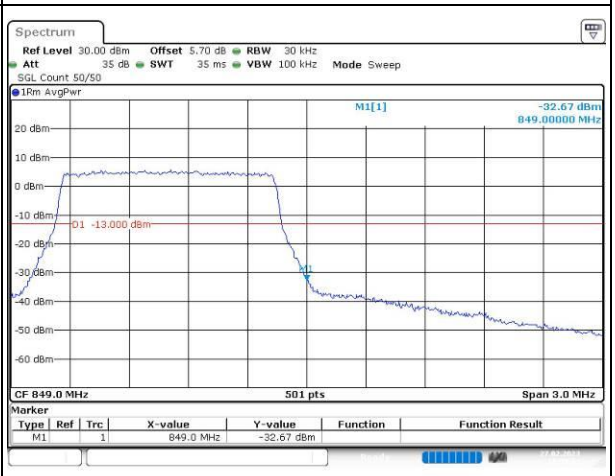
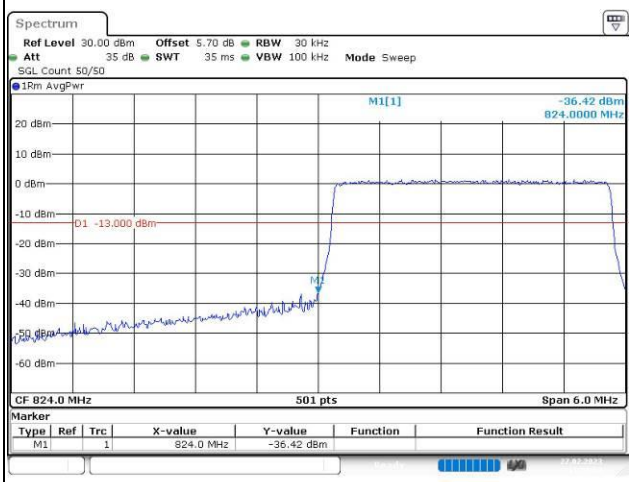
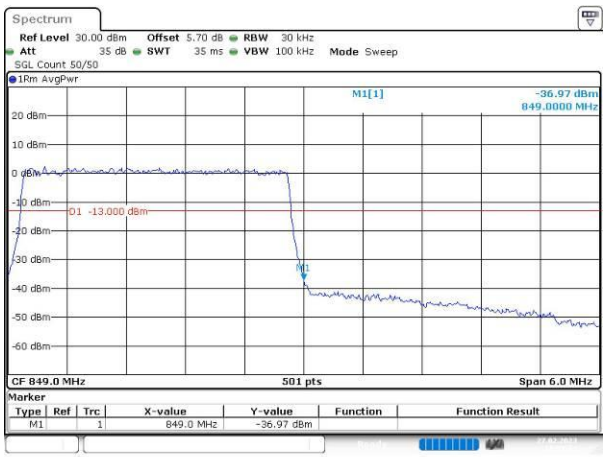
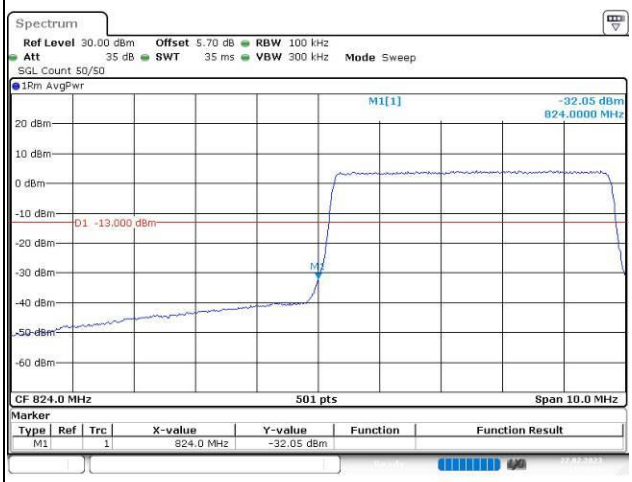
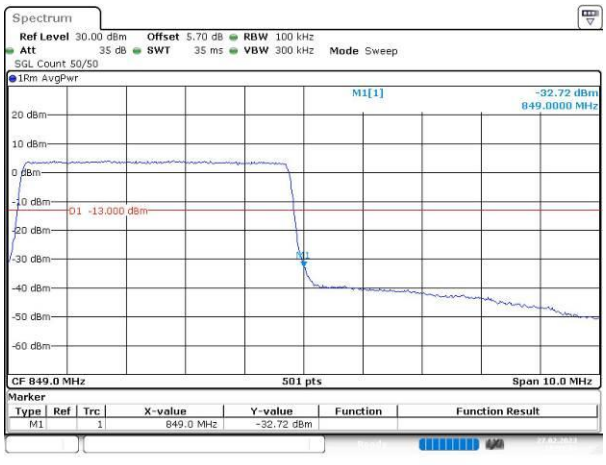
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

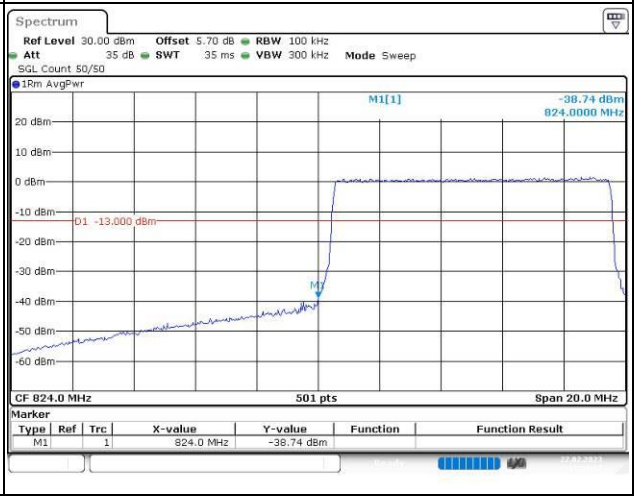
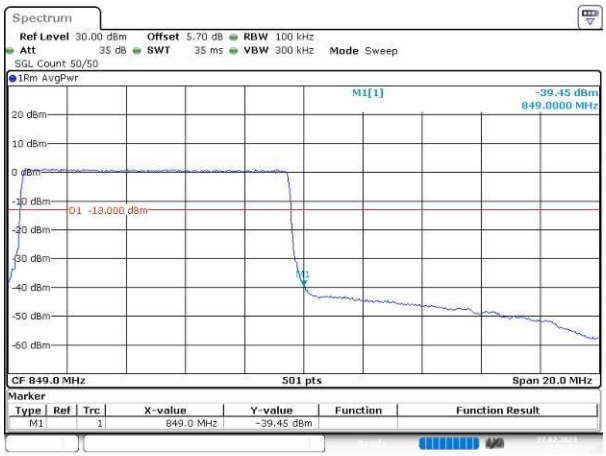
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 10MHz		

4.7 Antenna Port Test Data and Results for LTE Band 7

Serial Number:	2295	Test Date:	2023/02/27~2023/03/15
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	23.2~24.1	Relative Humidity: (%)	33~36	ATM Pressure: (kPa)	101.1~102.3

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	N/A	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2022/07/15	2023-07/14

** 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	2502.5	2535	2567.5
10MHz	2505	2535	2565
15MHz	2507.5	2535	2562.5
20MHz	2510	2535	2560

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		
5MHz QPSK	RB1#0	17.22	16.03	16.52	18.74	33
	RB1#13	16.81	17.6	16.33		
	RB1#24	17.04	16.97	16.45		
	RB15#0	17.89	17.33	17.05		
	RB15#10	17.64	17.29	17.18		
	RB25#0	17.45	17.78	17.27		
5MHz 16QAM	RB1#0	17.67	17.13	17.35	18.52	33
	RB1#13	17.15	17.44	17.44		
	RB1#24	17.53	17.13	17.06		
	RB15#0	17.24	17.05	17		
	RB15#10	17.55	16.75	17.26		
	RB25#0	17.24	17.2	17.55		
10MHz QPSK	RB1#0	17.37	17.54	17.74	18.76	33
	RB1#25	17.24	17.83	17.01		
	RB1#49	17.91	17.2	17.34		
	RB25#0	17.67	17.89	17.58		
	RB25#25	17.19	17.8	17.8		
	RB50#0	17.38	17.05	17.83		
10MHz 16QAM	RB1#0	17.66	17.42	17.85	18.78	33
	RB1#25	17.1	17.69	17.61		
	RB1#49	17.29	17.21	17.11		
	RB25#0	17.9	17.43	17.93		
	RB25#25	17.83	17.75	17.78		
	RB50#0	17.1	17.54	17.72		
15MHz QPSK	RB1#0	17.59	17.7	17.36	18.68	33
	RB1#38	17.07	17.75	17.41		
	RB1#74	17.26	17.02	17.47		
	RB36#0	17.26	17.79	17.68		
	RB36#39	17.83	17.56	17.03		
	RB75#0	17.24	17.65	17.81		
15MHz 16QAM	RB1#0	17.47	17.18	17.91	18.76	33
	RB1#38	17.1	17.78	17.71		
	RB1#74	17.89	17.88	17.53		
	RB36#0	17.7	17.78	17.66		
	RB36#39	17.14	17.77	17.64		
	RB75#0	17.02	17.05	17.35		

20MHz QPSK	RB1#0	17.07	17.65	17.37	18.77	33
	RB1#50	17.47	17.05	17.36		
	RB1#99	17.57	17.84	17.65		
	RB50#0	17.16	17.81	17.76		
	RB50#50	17.59	17.49	17.34		
	RB100#0	17.26	17.9	17.92		
20MHz 16QAM	RB1#0	17.48	17.36	17.26	18.74	33
	RB1#50	17.14	17.16	17.43		
	RB1#99	17.28	17.5	17.55		
	RB50#0	17.72	17.22	17.62		
	RB50#50	17.42	17.67	17.89		
	RB100#0	17.76	17.26	17.43		
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	5.07	5.1	4.9	13
	RB100#0	4.2	4.14	4.03	13
20MHz 16QAM	RB1#0	5.8	6.06	5.48	13
	RB100#0	5.86	5.86	5.71	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	4.491	4.511	4.96	4.94	4.94
5MHz 16QAM	4.531	4.511	4.491	4.94	4.98	4.94
10MHz QPSK	8.942	8.942	8.942	9.68	9.6	9.6
10MHz 16QAM	8.942	8.942	8.942	9.6	9.6	9.68
15MHz QPSK	13.593	13.473	13.473	19.74	14.76	14.82
15MHz 16QAM	13.593	13.473	13.473	20.82	14.7	14.7
20MHz QPSK	17.964	17.964	18.044	22.08	19.28	23.28
20MHz 16QAM	17.964	17.964	18.044	19.36	19.36	25.76
Note: The test plots please refer to the Plots of Occupied Bandwidth						

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

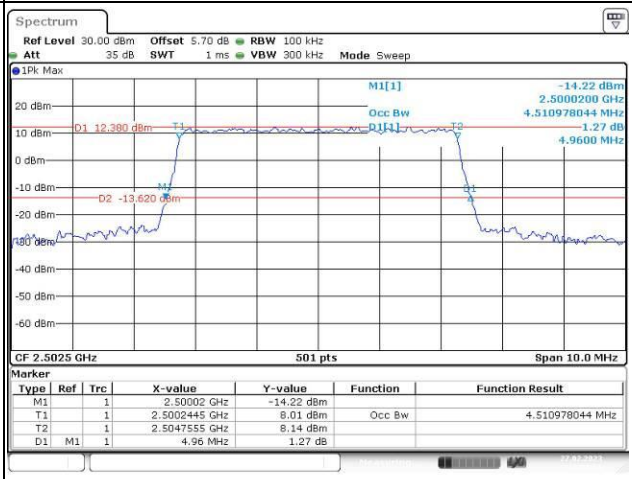
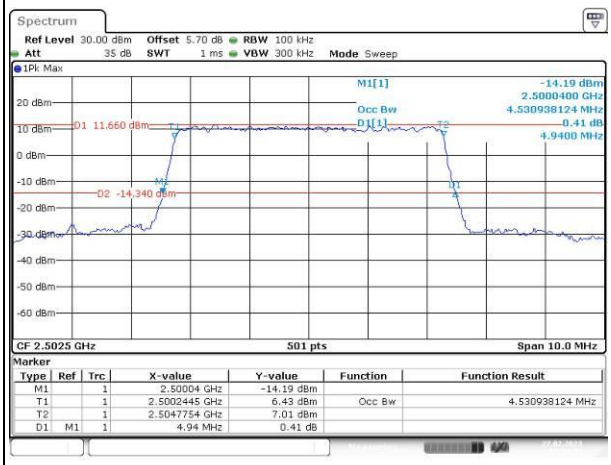
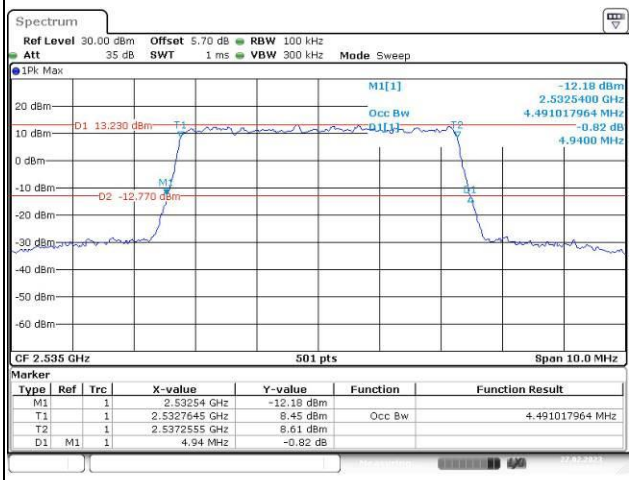
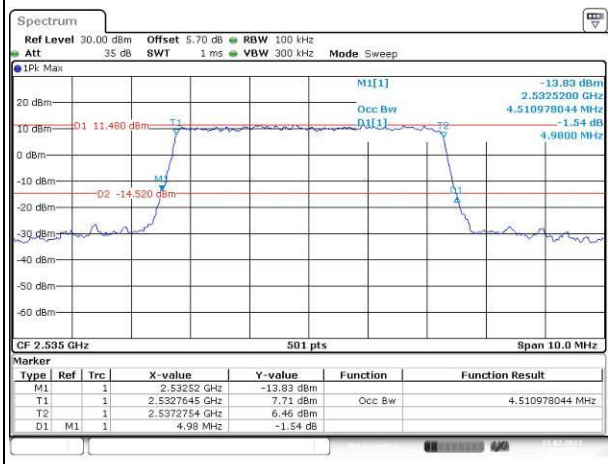
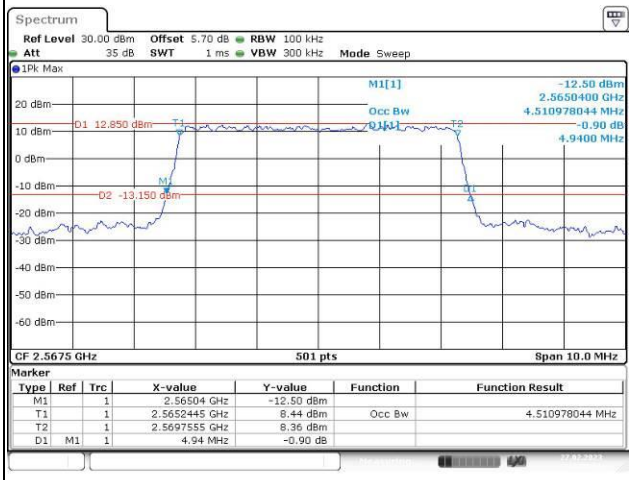
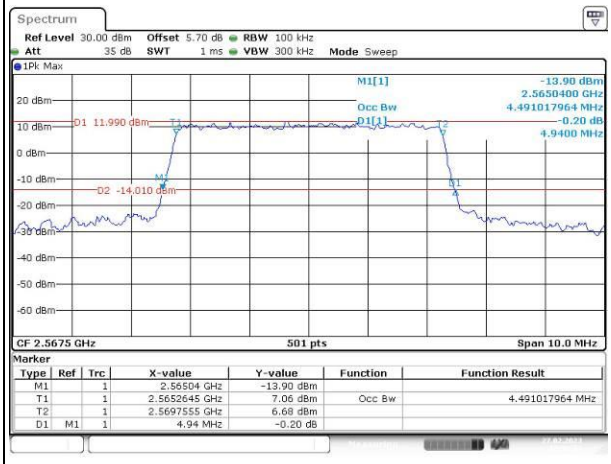
Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

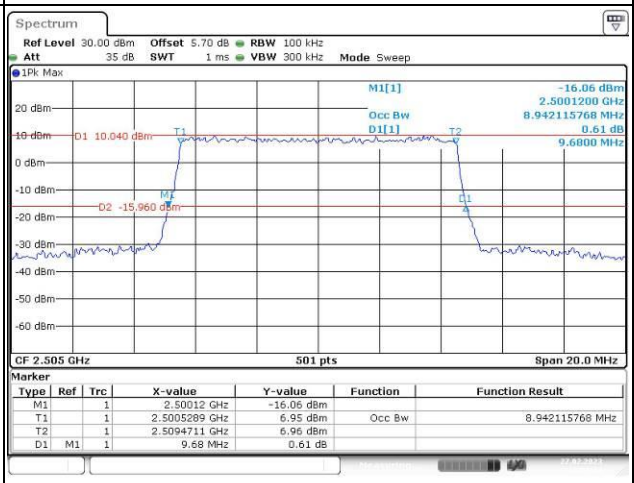
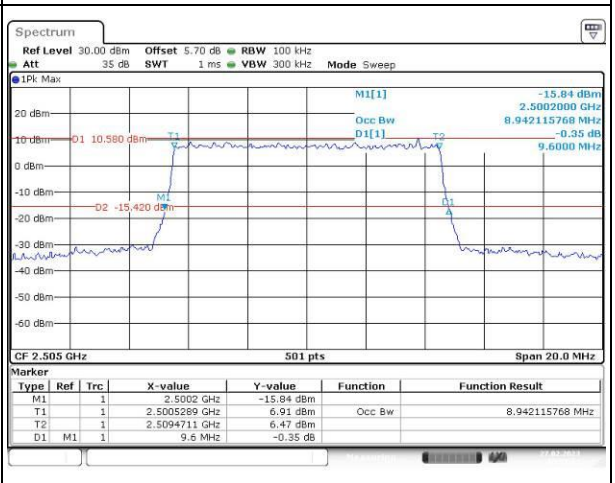
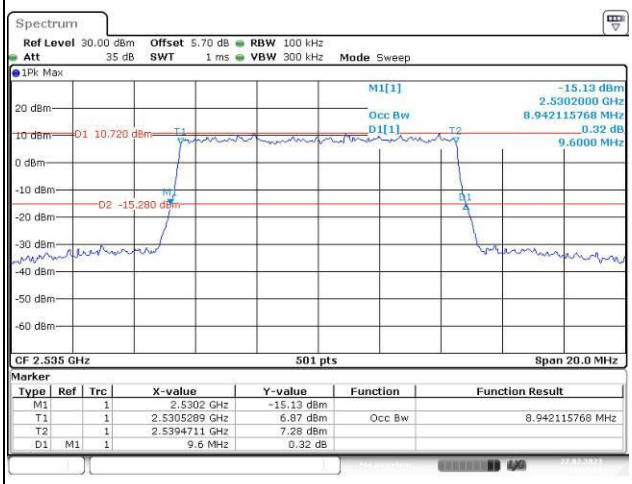
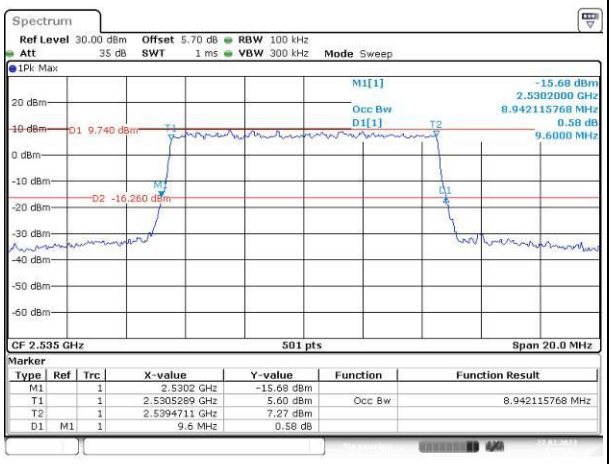
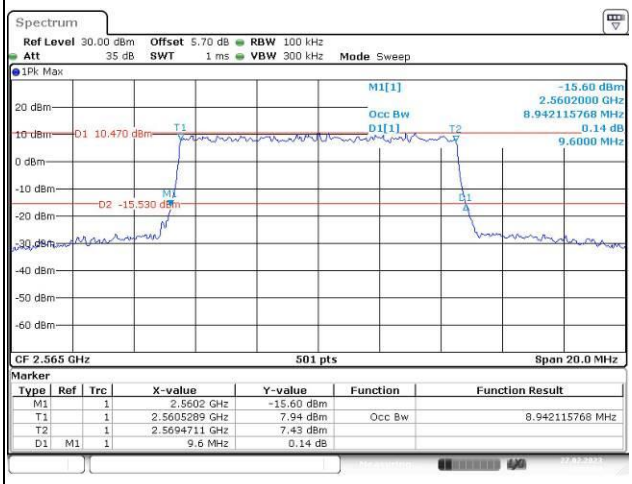
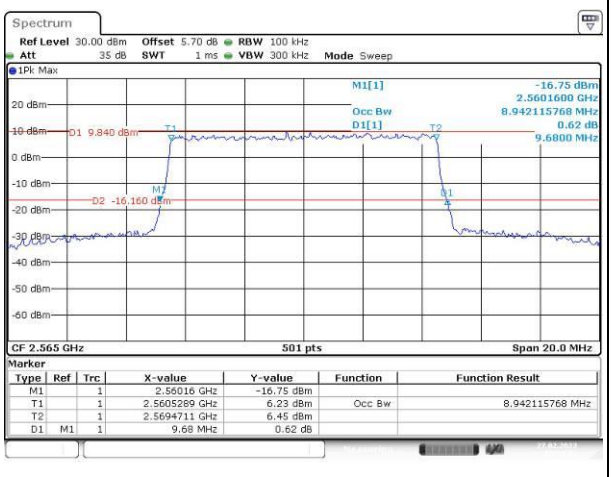
Frequency Stability

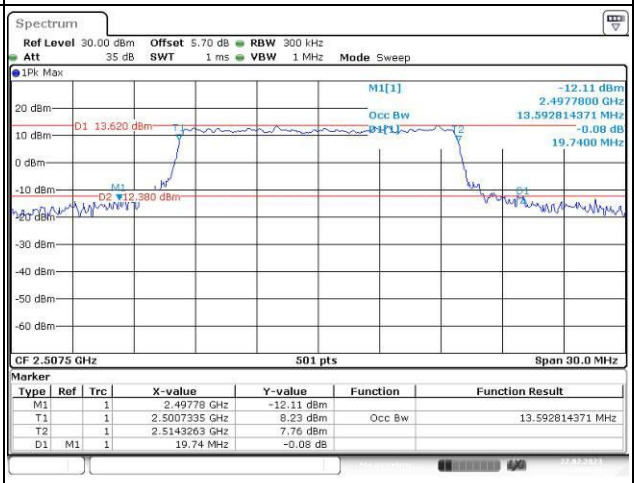
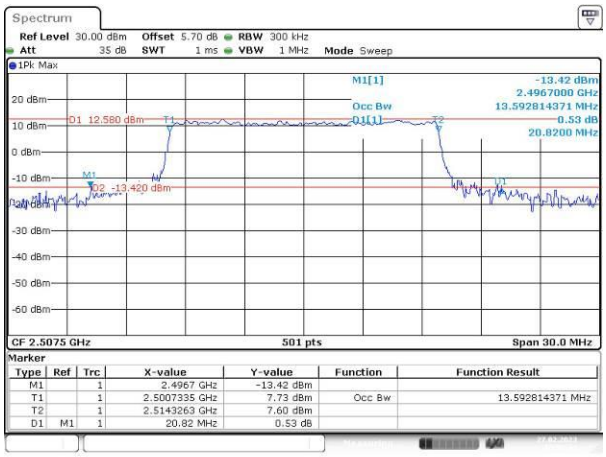
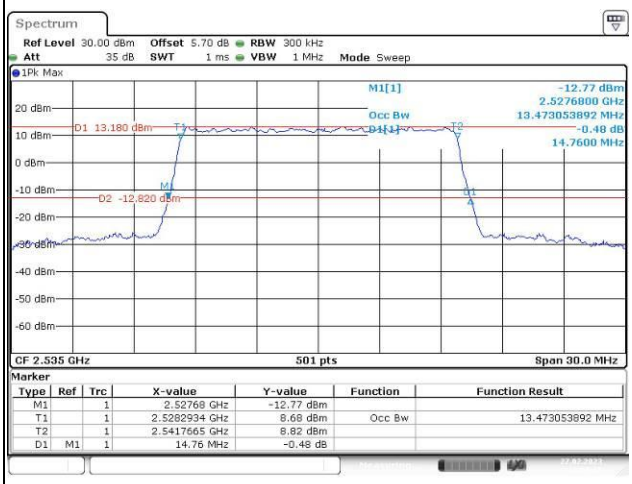
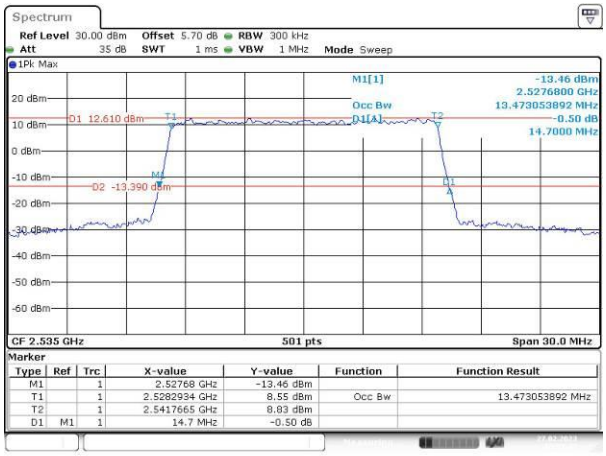
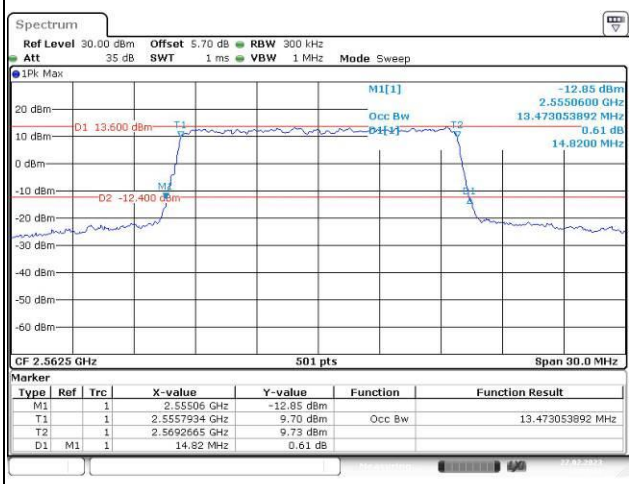
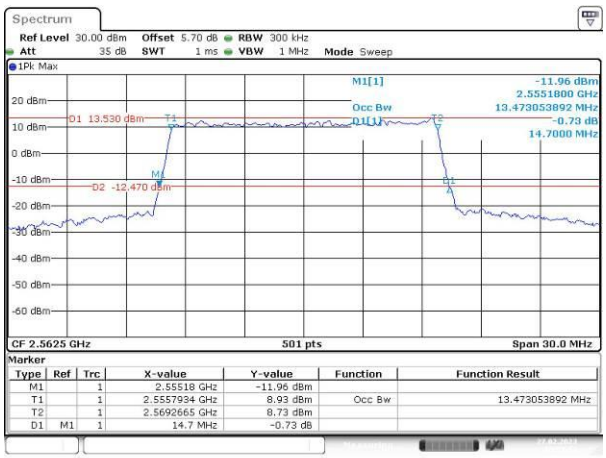
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2500.4058	2500.00	2569.6065	2570
	-20	3.8	2500.4029	2500.00	2569.6092	2570
	-10	3.8	2500.4002	2500.00	2569.6004	2570
	0	3.8	2500.4099	2500.00	2569.6051	2570
	10	3.8	2500.4083	2500.00	2569.6089	2570
	20	3.8	2500.4058	2500.00	2569.6022	2570
	30	3.8	2500.4034	2500.00	2569.6074	2570
	40	3.8	2500.4015	2500.00	2569.6060	2570
	50	3.8	2500.4066	2500.00	2569.6021	2570
Frequency Stability vs. Voltage	20	3.45	2500.4044	2500.00	2569.6095	2570
	20	4.35	2500.4003	2500.00	2569.6093	2570
					Result:	**Pass**

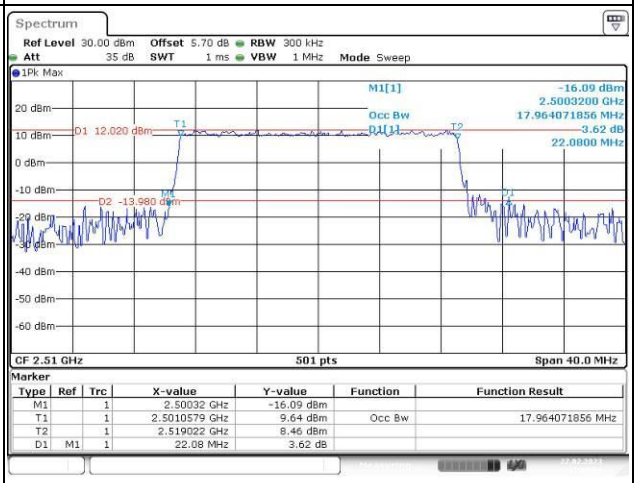
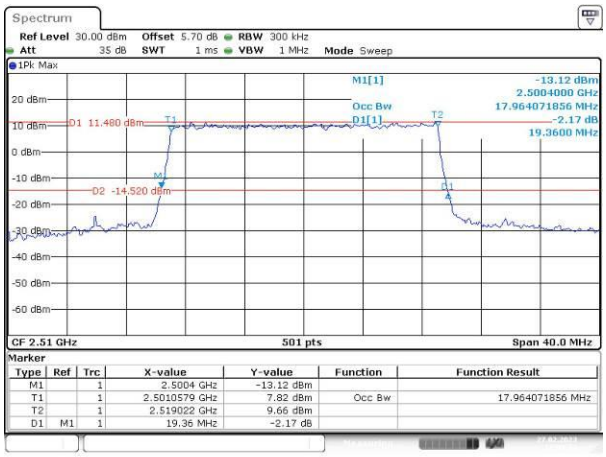
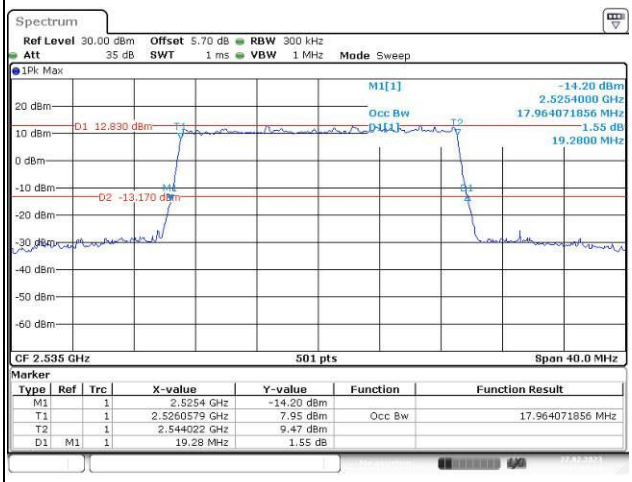
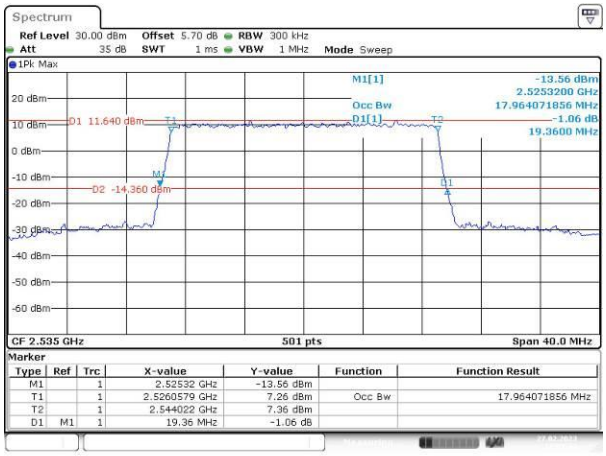
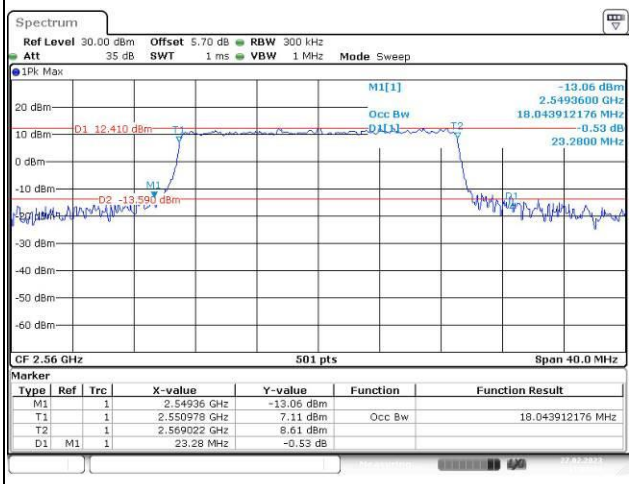
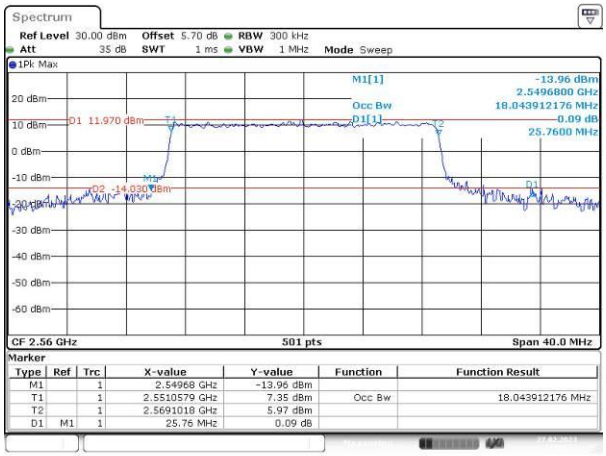
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2500.4048	2500.00	2569.6141	2570
	-20	3.8	2500.4305	2500.00	2569.6136	2570
	-10	3.8	2500.4013	2500.00	2569.6135	2570
	0	3.8	2500.4069	2500.00	2569.6102	2570
	10	3.8	2500.4093	2500.00	2569.6118	2570
	20	3.8	2500.4058	2500.00	2569.6102	2570
	30	3.8	2500.4079	2500.00	2569.6149	2570
	40	3.8	2500.4021	2500.00	2569.6119	2570
	50	3.8	2500.4050	2500.00	2569.6127	2570
Frequency Stability vs. Voltage	20	3.45	2500.4043	2500.00	2569.6090	2570
	20	4.35	2500.4096	2500.00	2569.6145	2570
					Result:	**Pass**

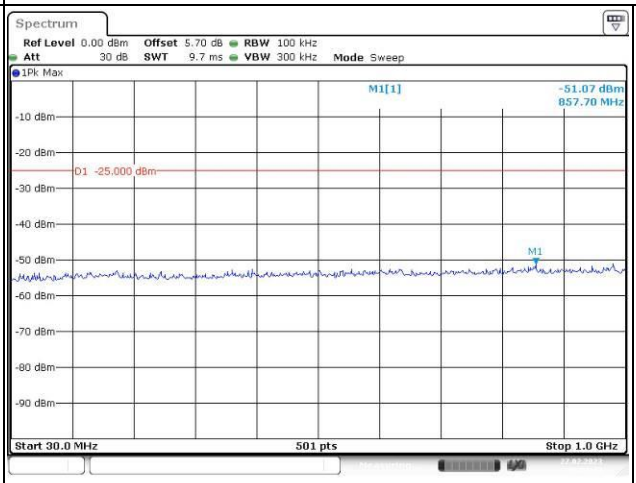
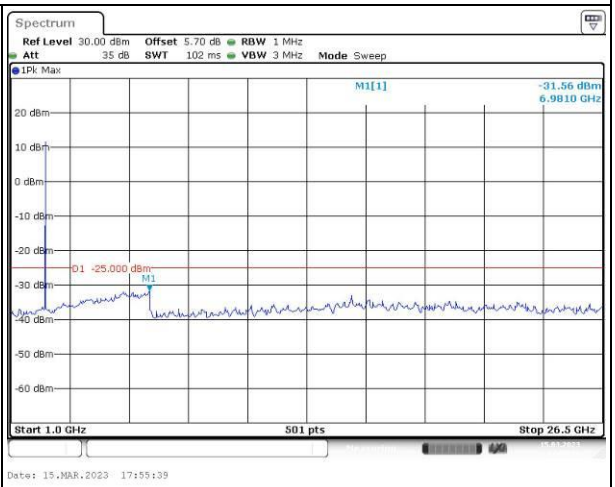
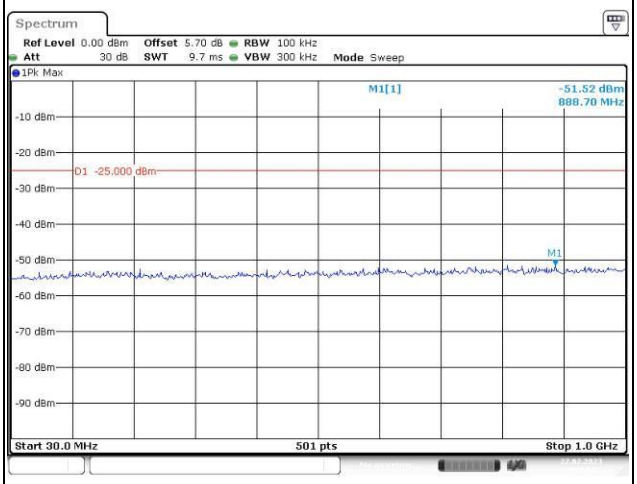
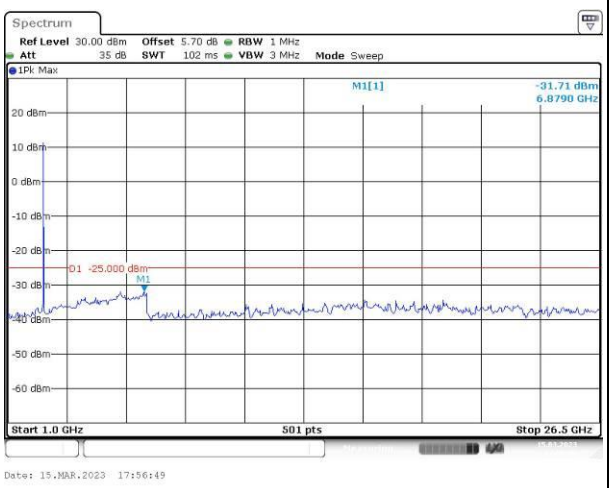
Test Plots(Note: The 5.7dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer)**:**

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowst		
Middle		
Highest