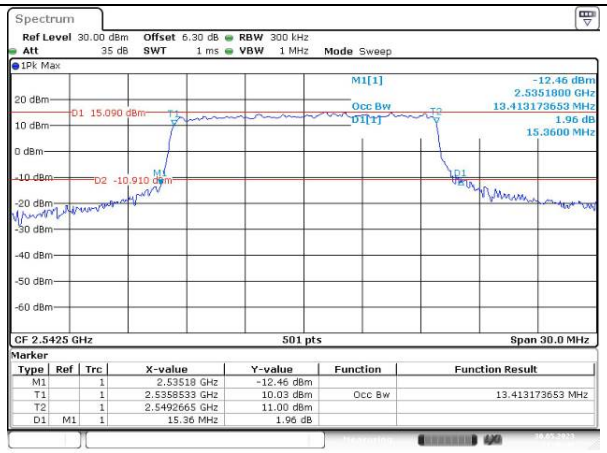
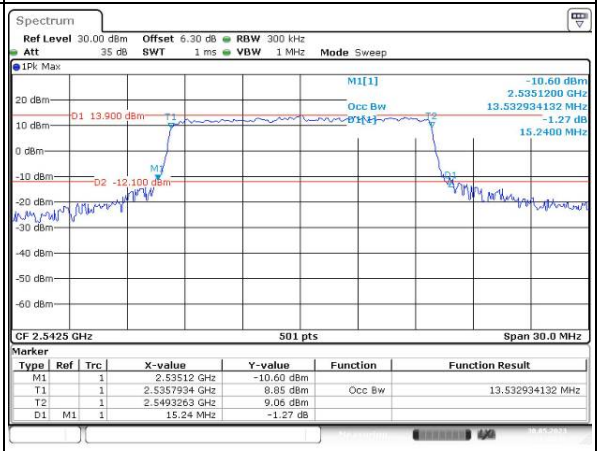
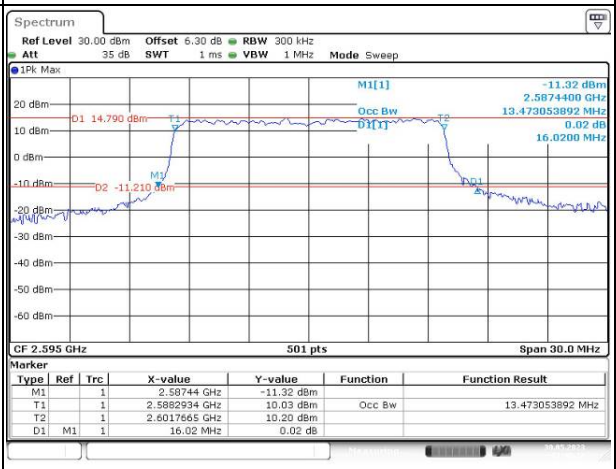
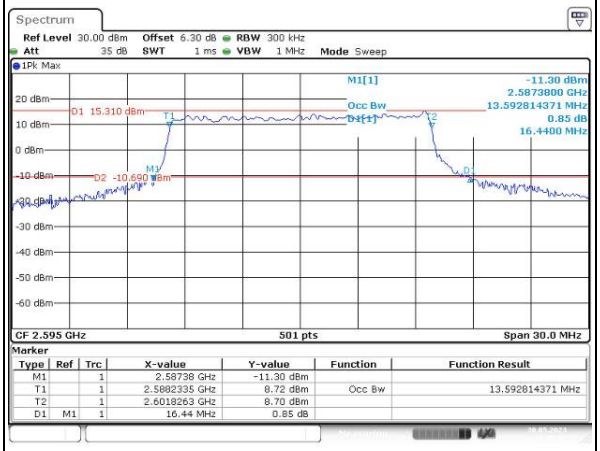
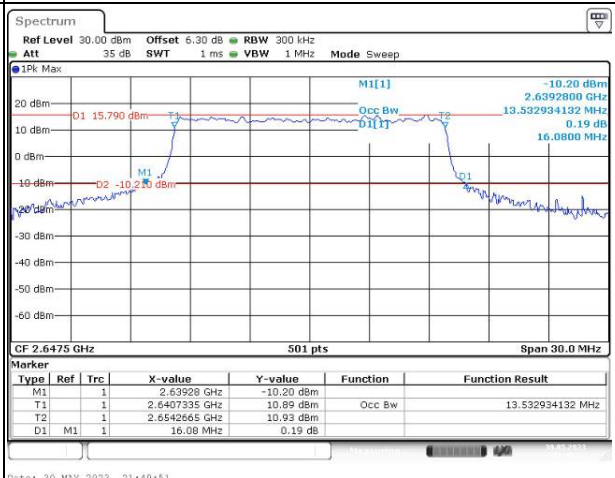
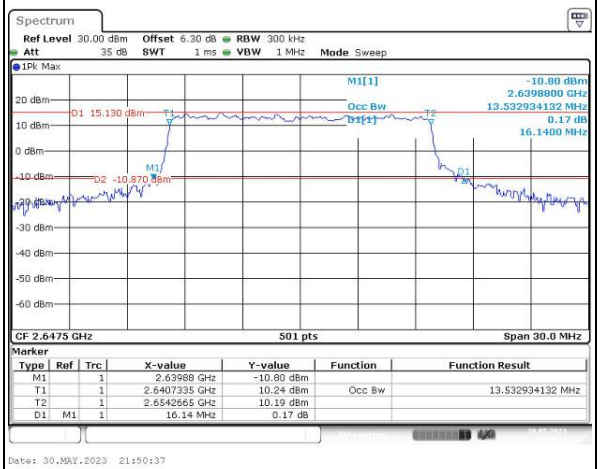
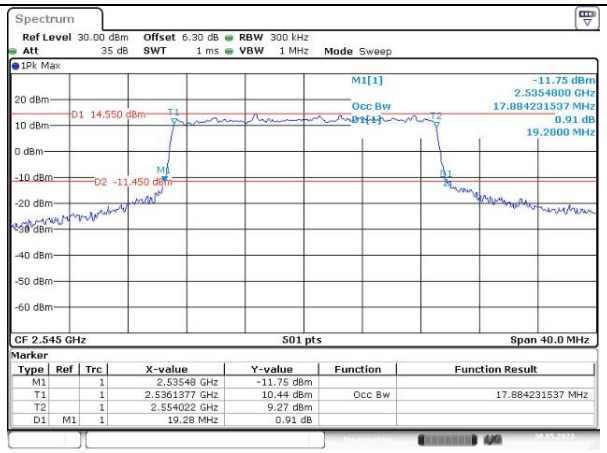
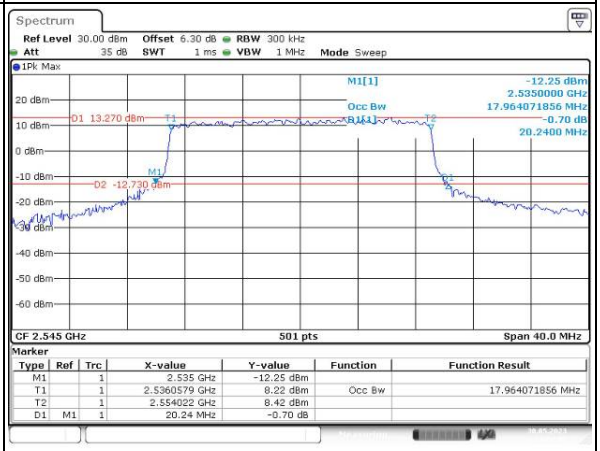
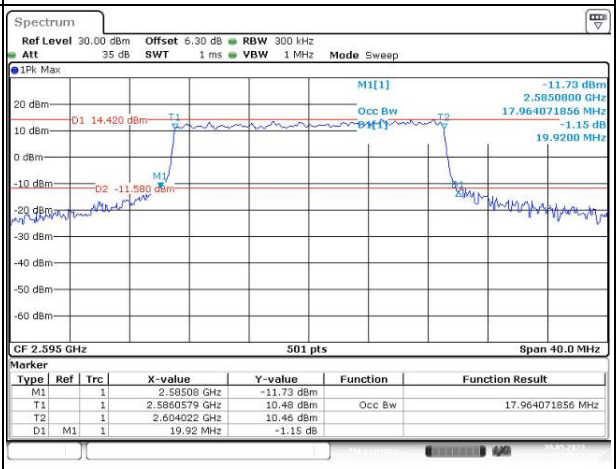
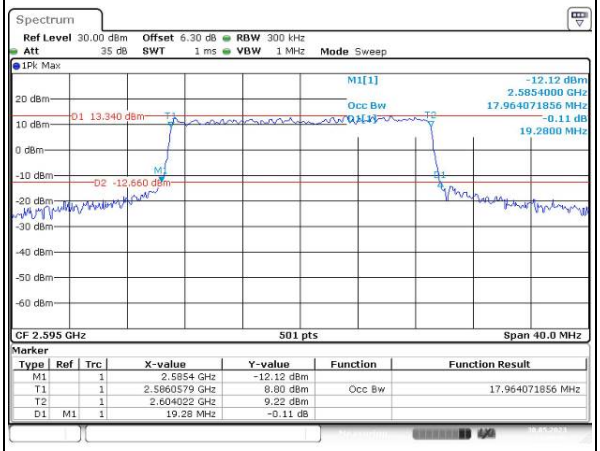
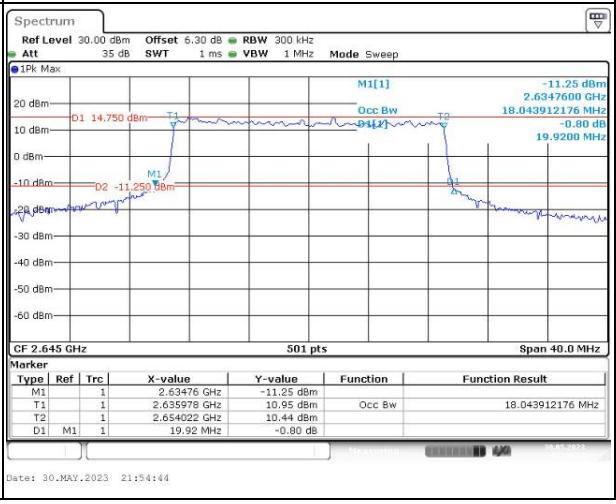
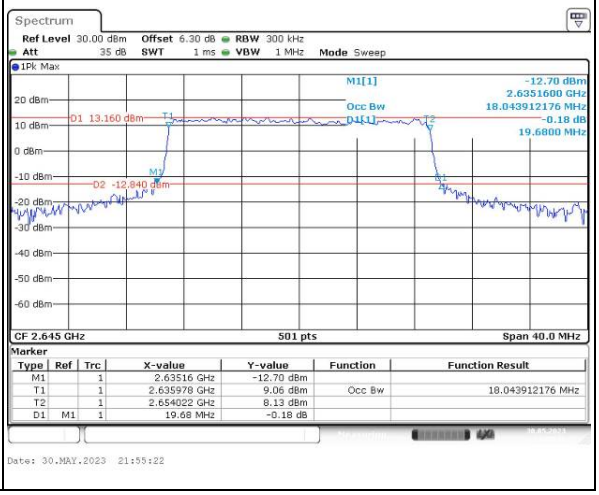
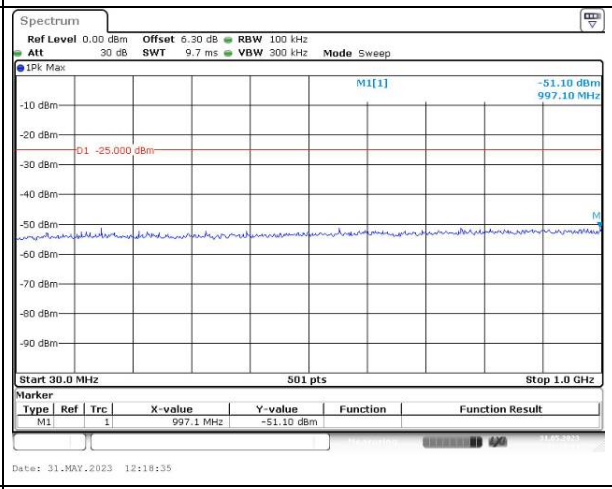
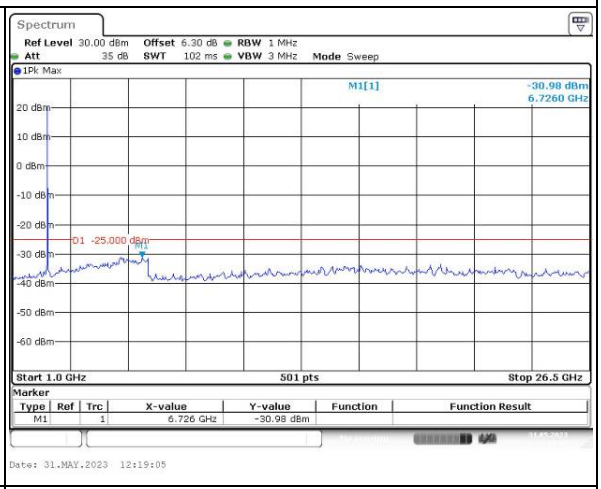
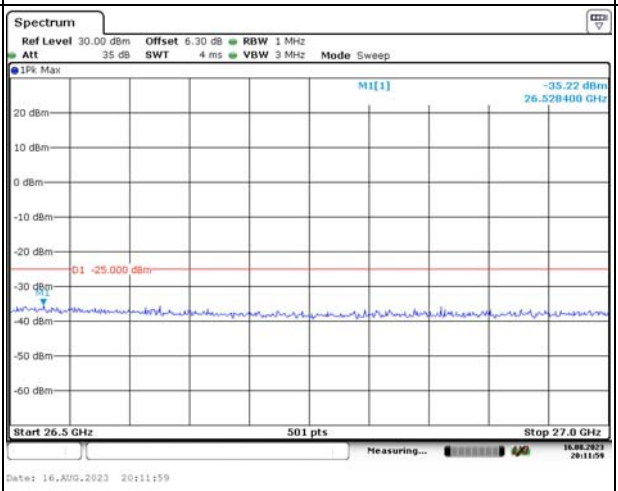
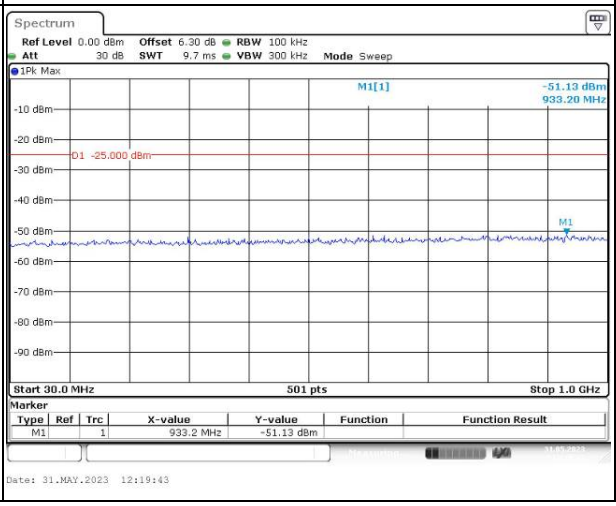
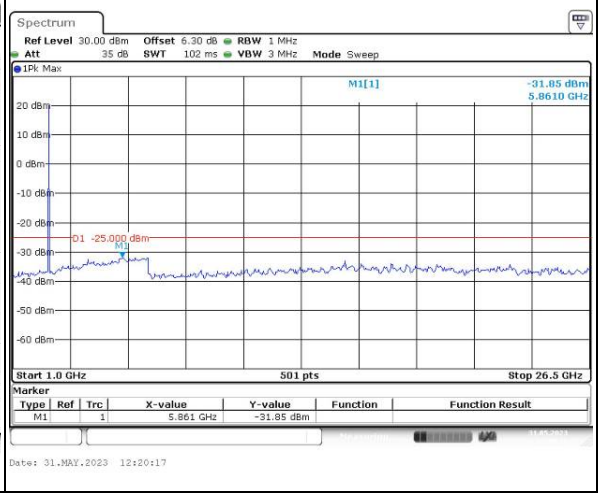
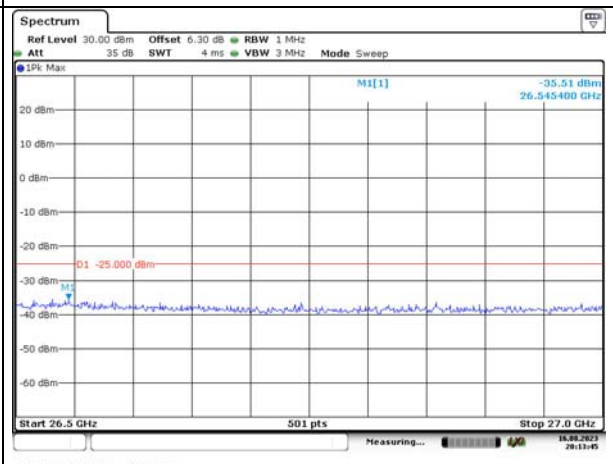
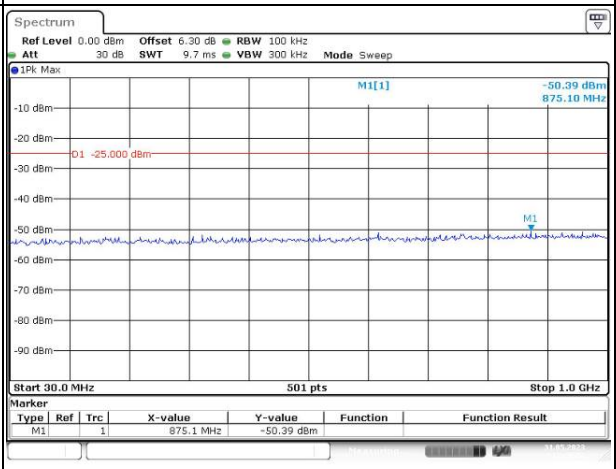
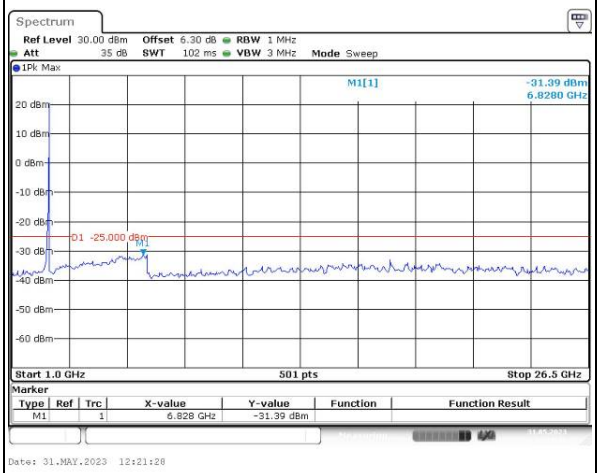
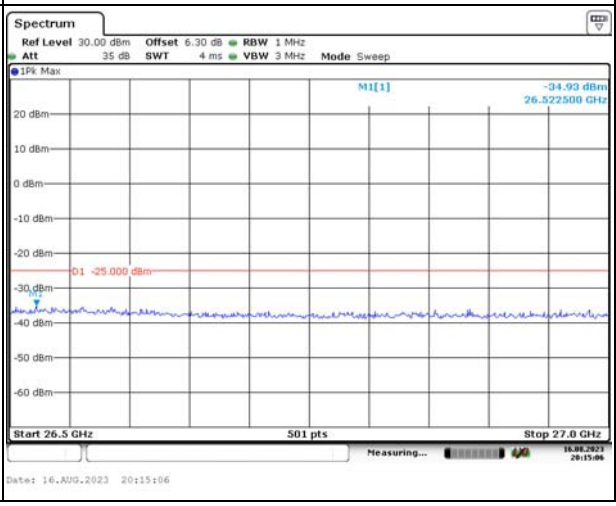
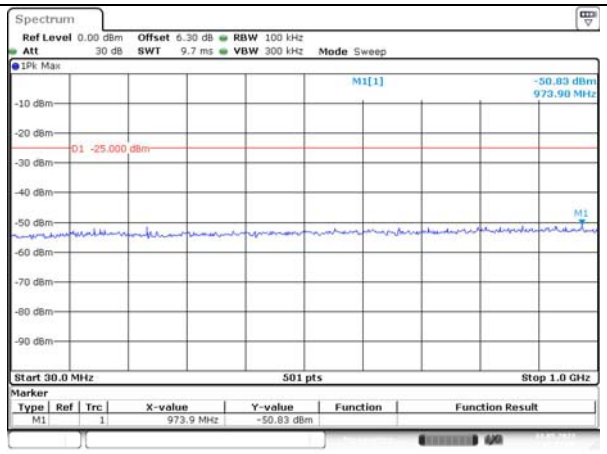
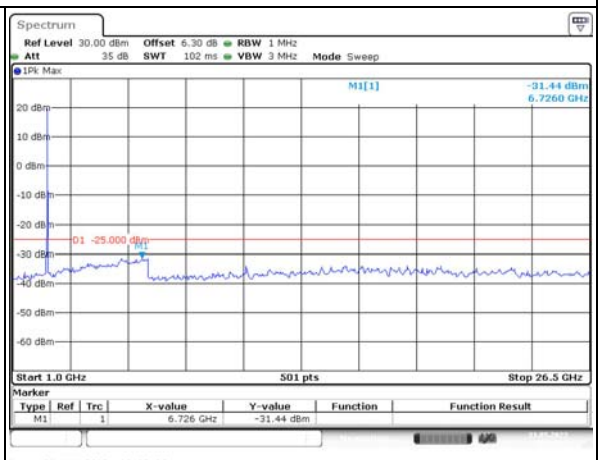
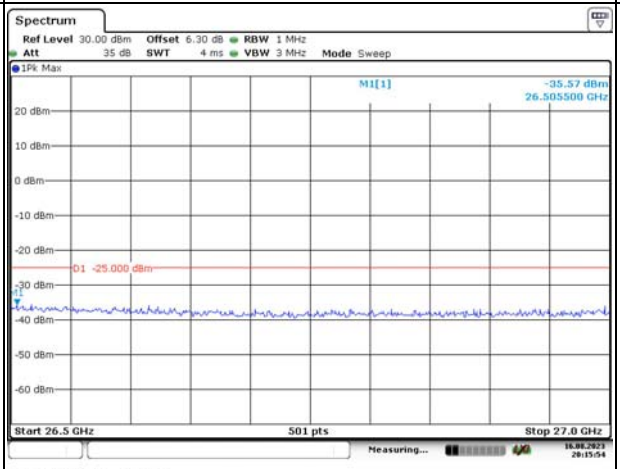
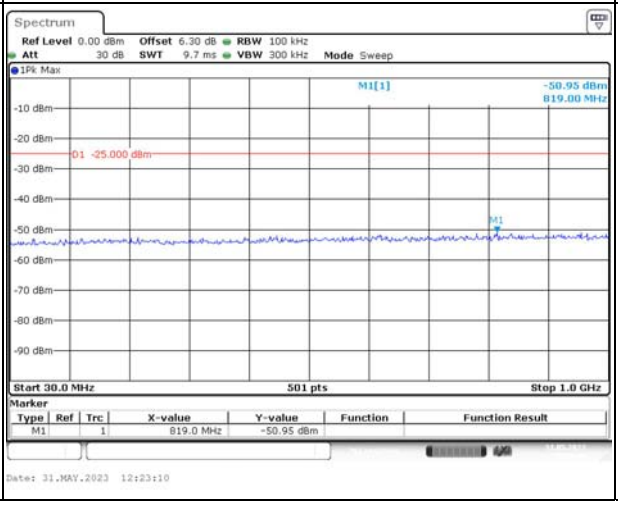
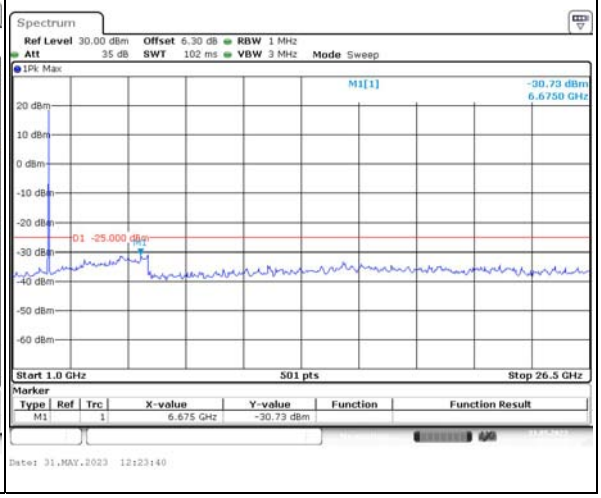
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

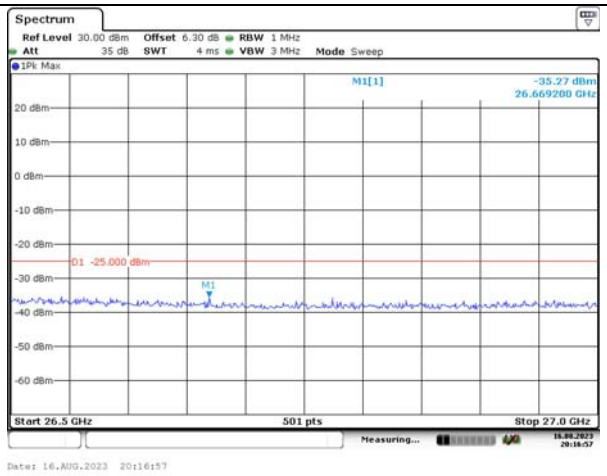
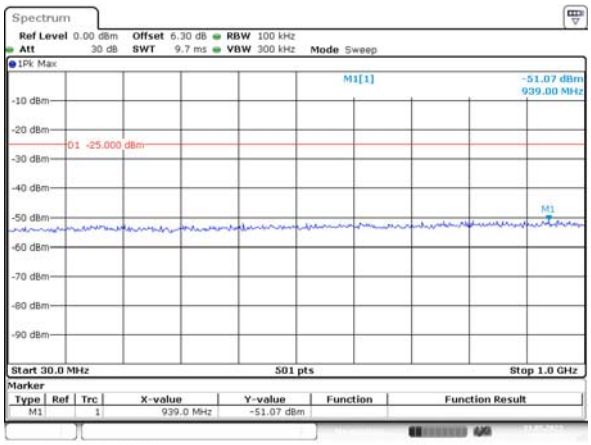
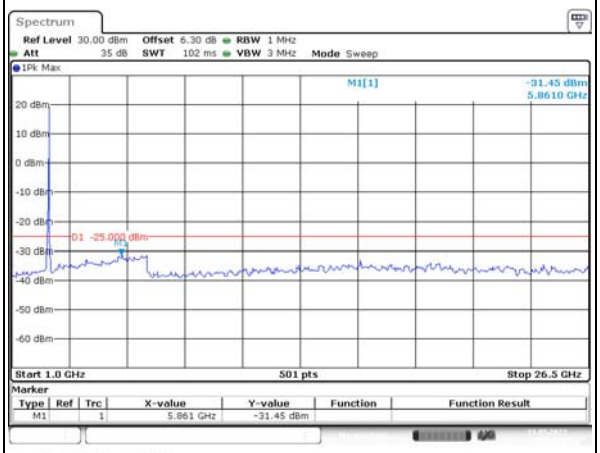
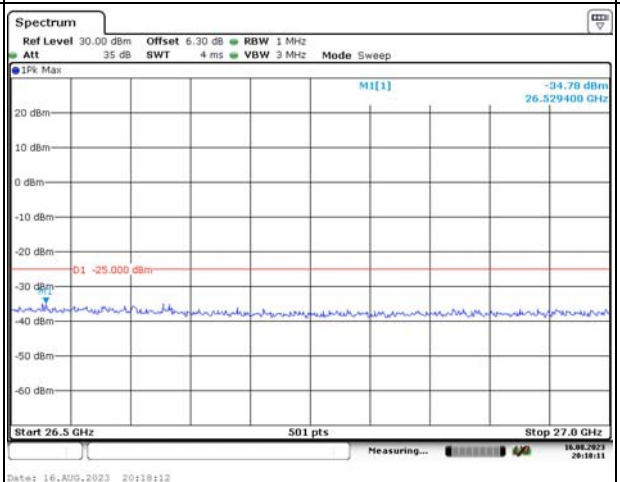
Occupied Bandwidth

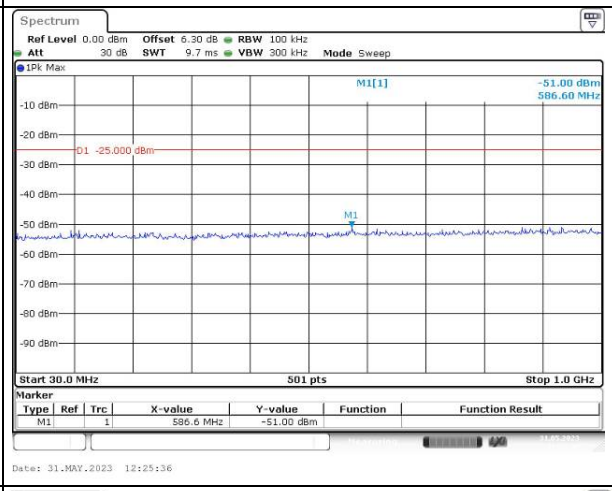
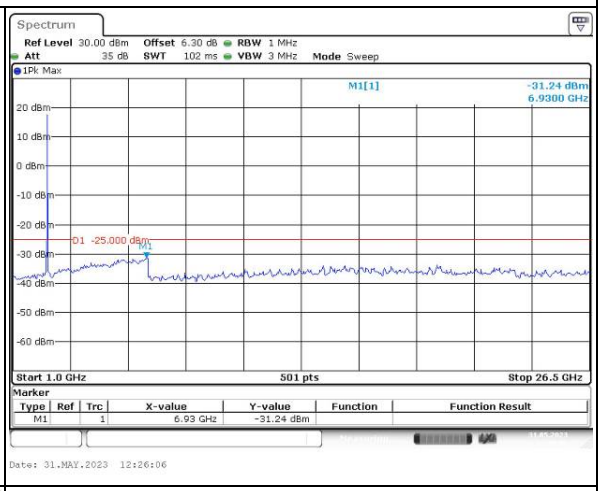
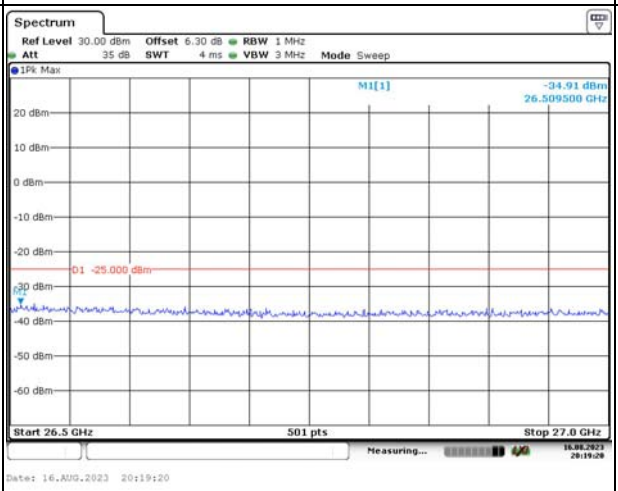
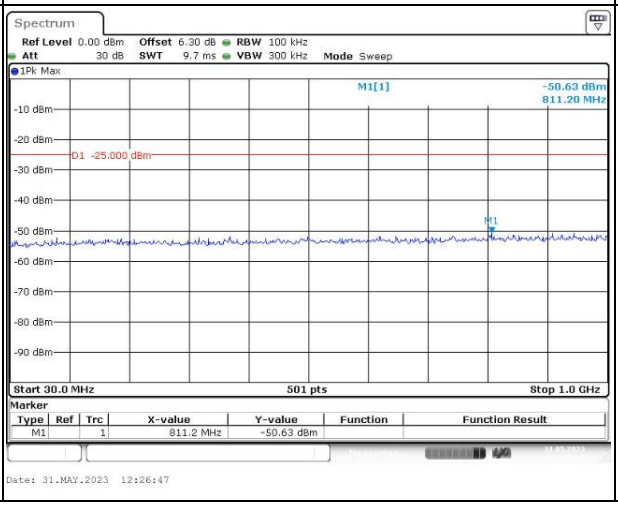
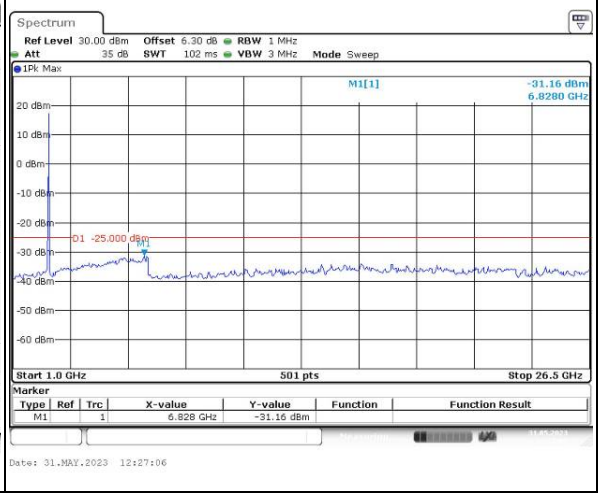
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

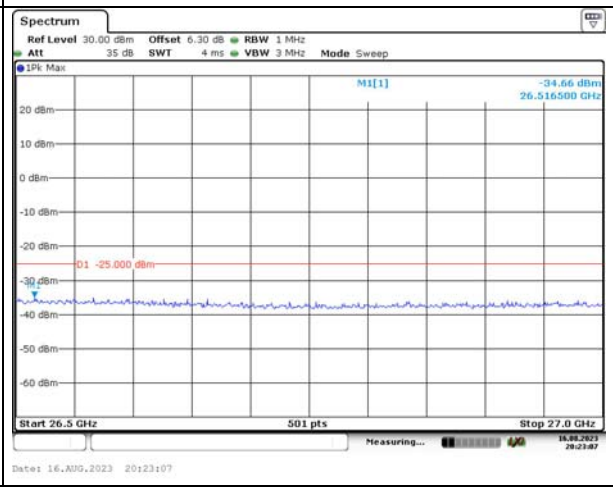
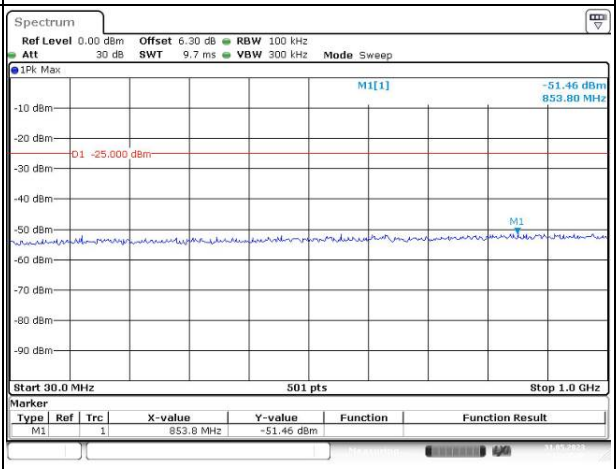
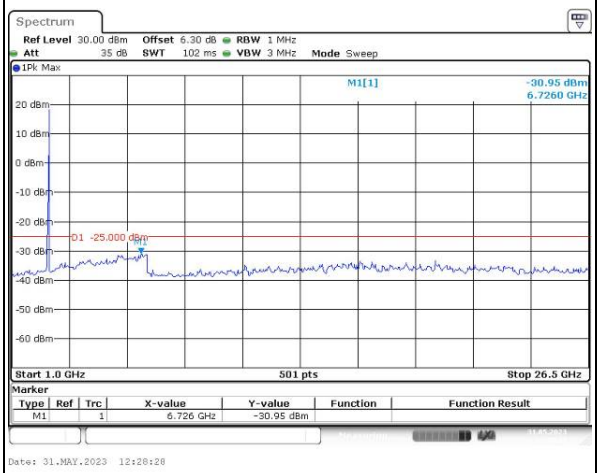
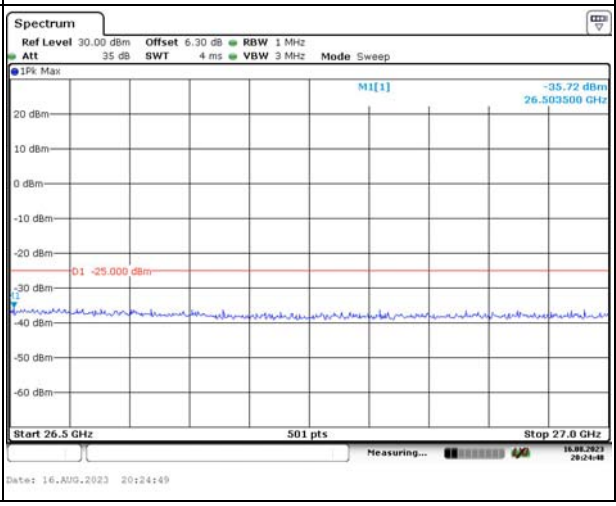
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Lowest		
Middle		

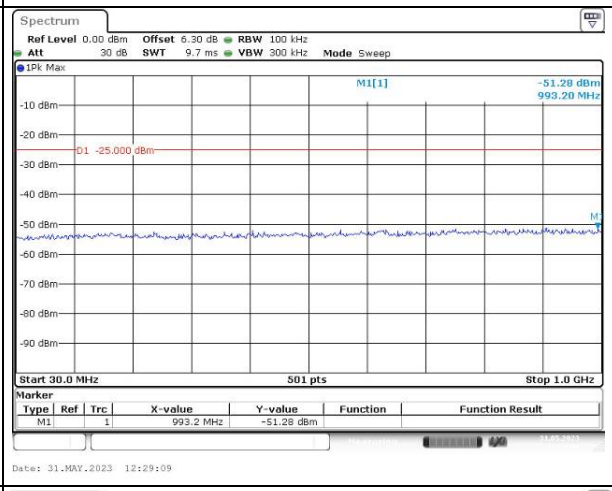
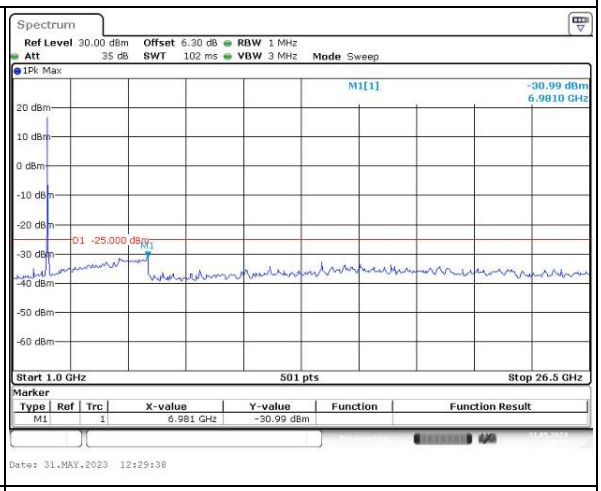
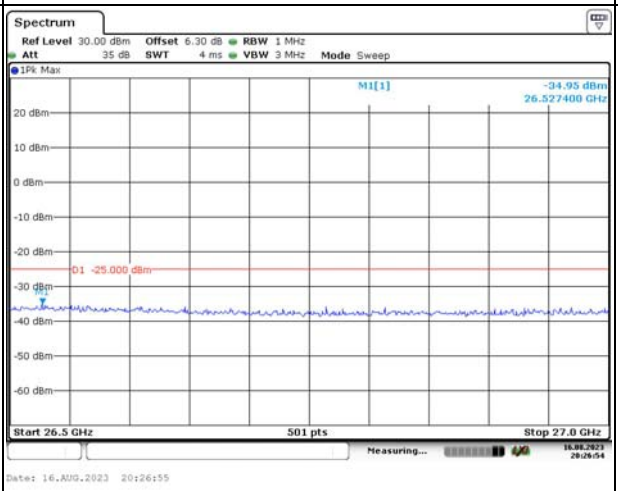
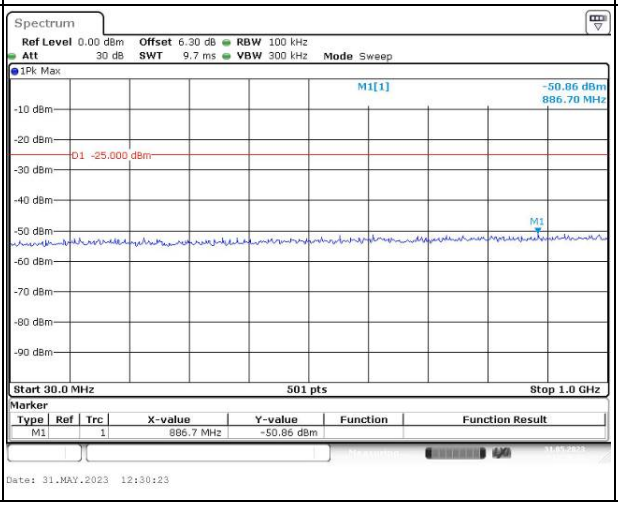
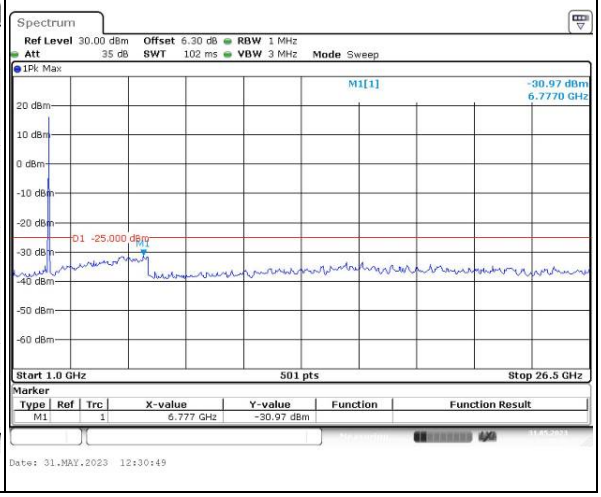
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Middle		
Highest		
Highest		

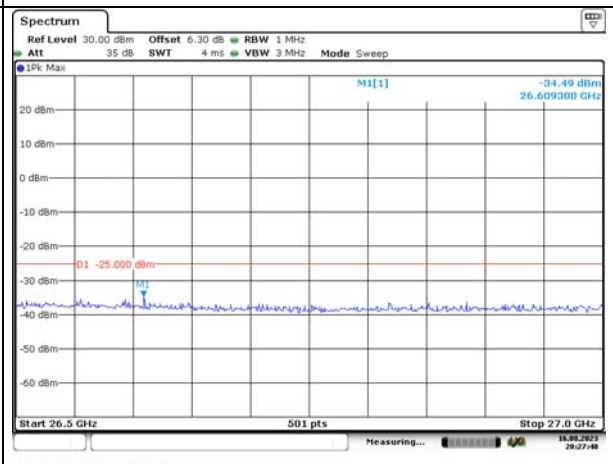
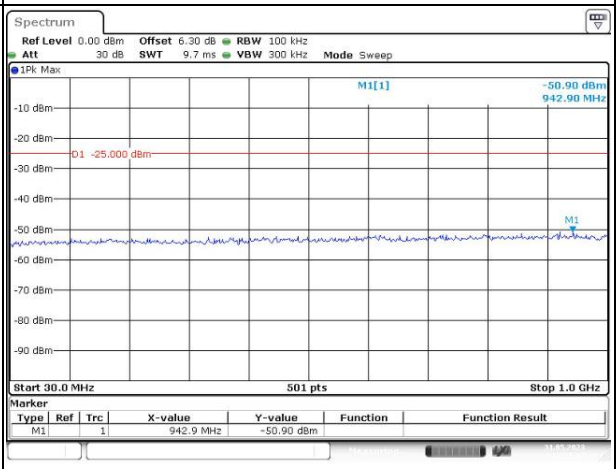
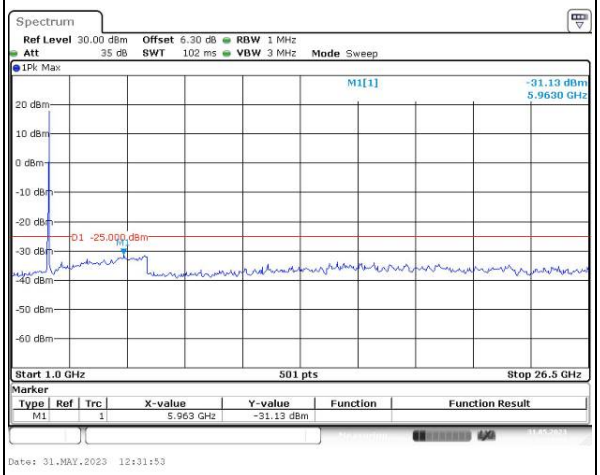
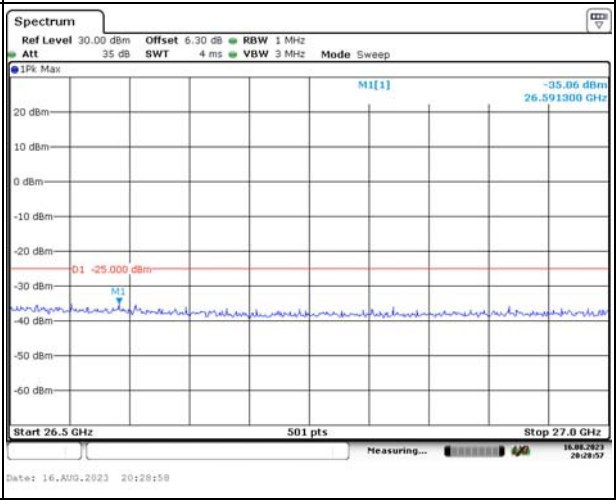
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Lowest		
Middle		

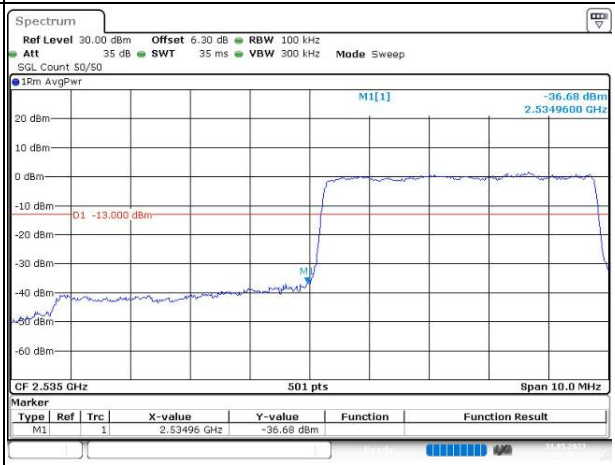
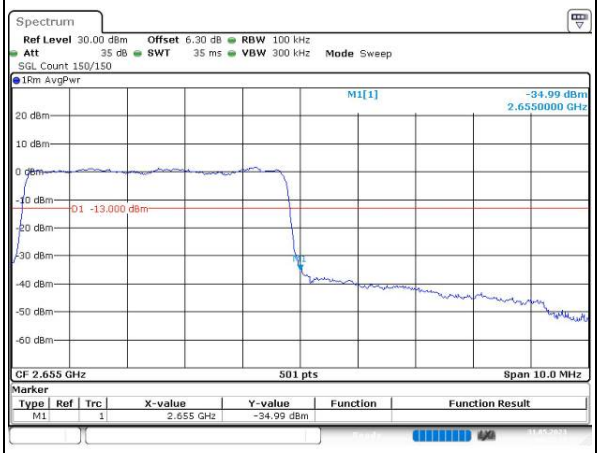
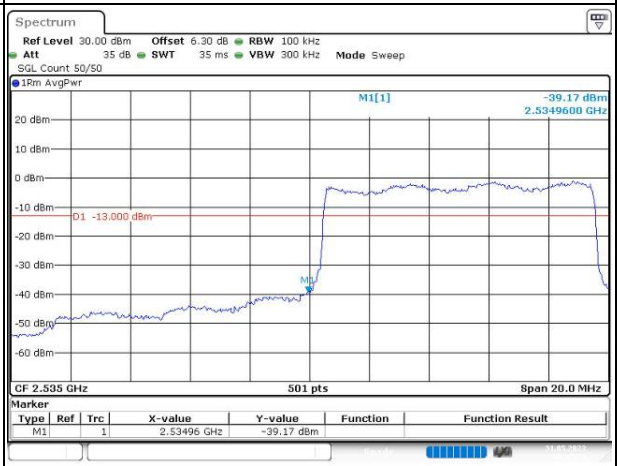
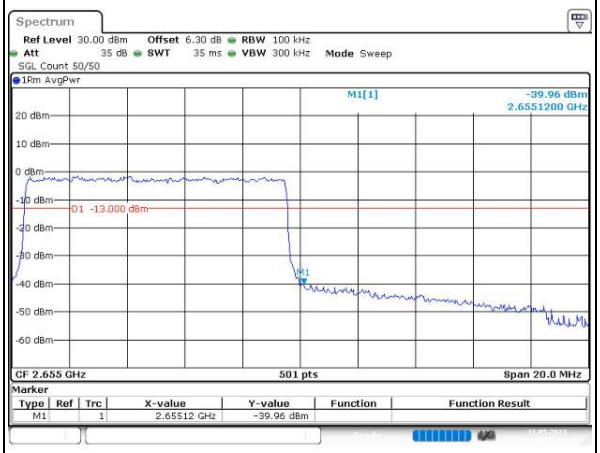
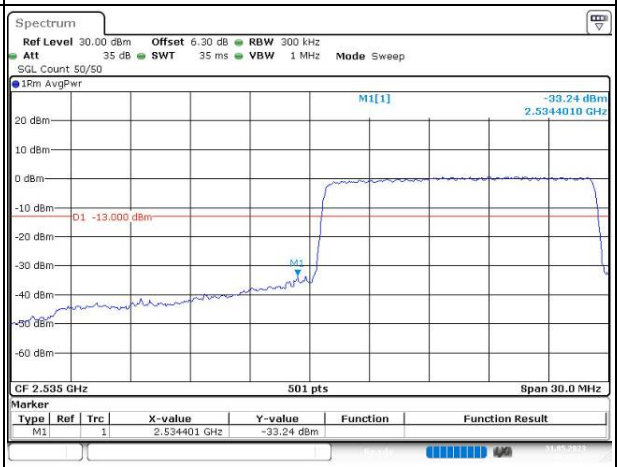
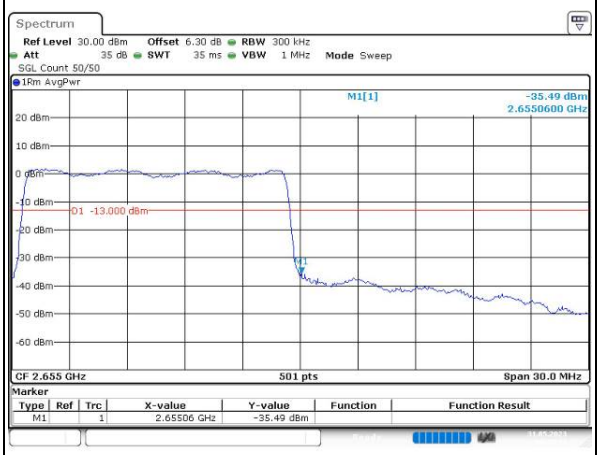
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Middle		
Highest		
Highest		

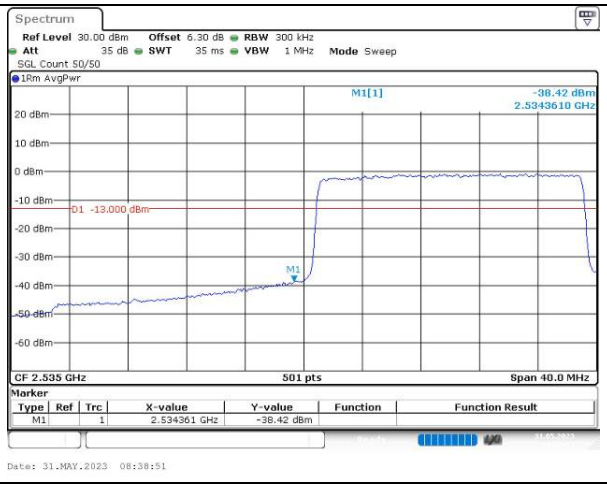
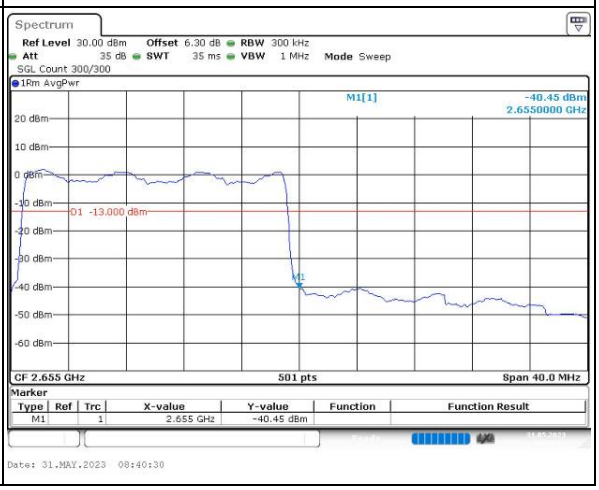
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Lowest		
Middle		

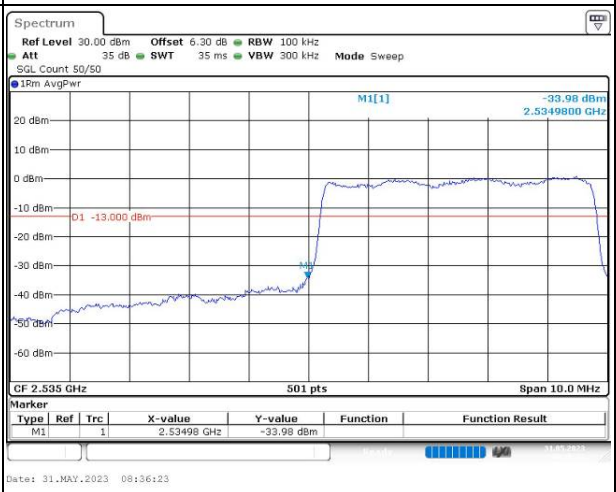
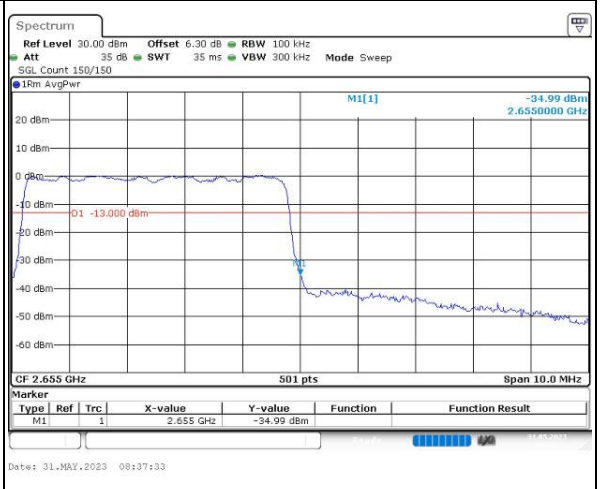
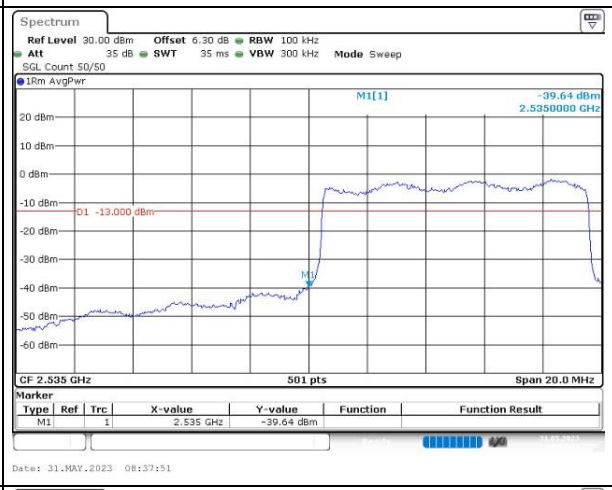
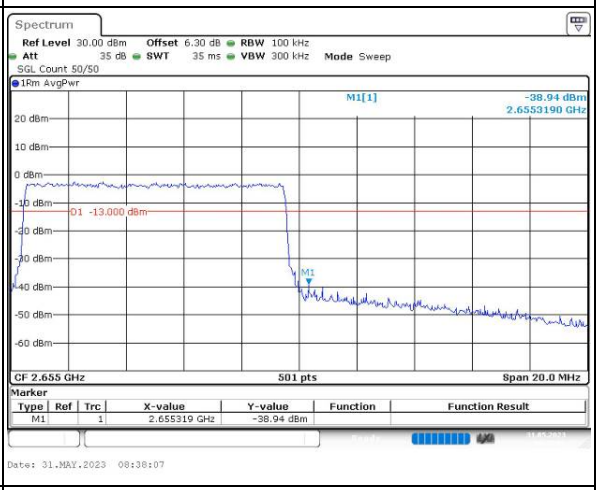
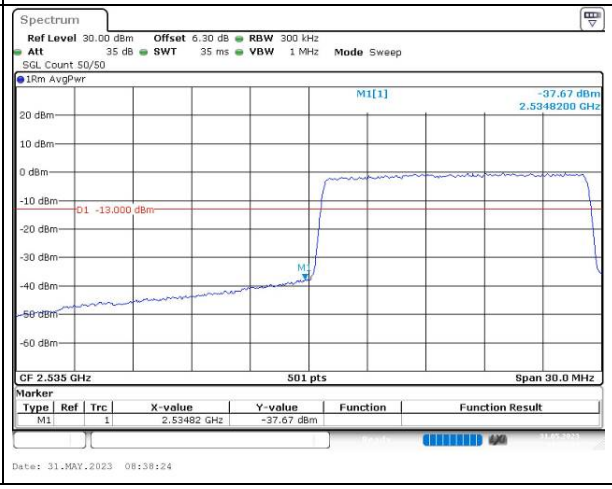
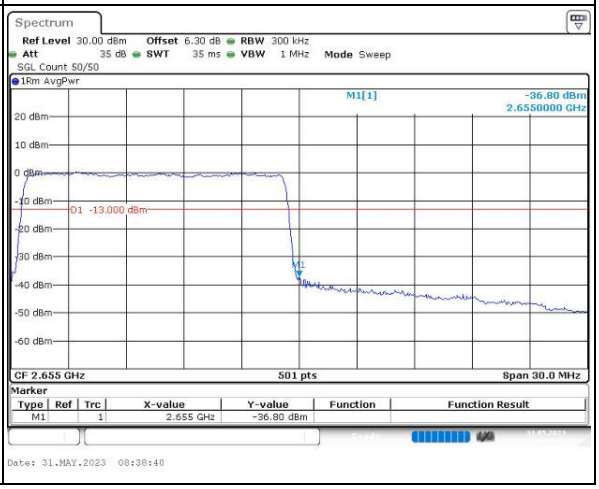
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Middle		
Highest		
Highest		

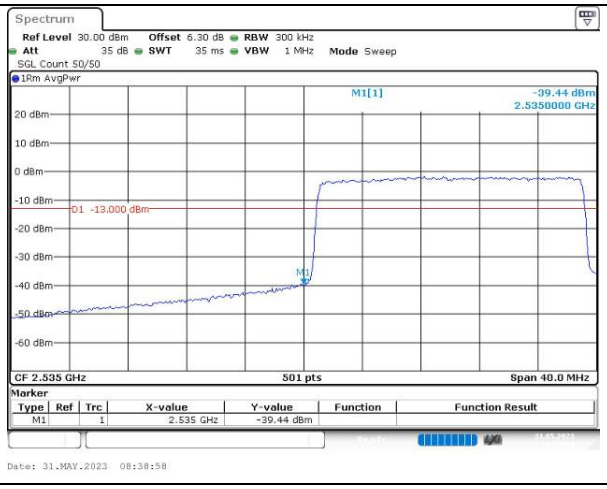
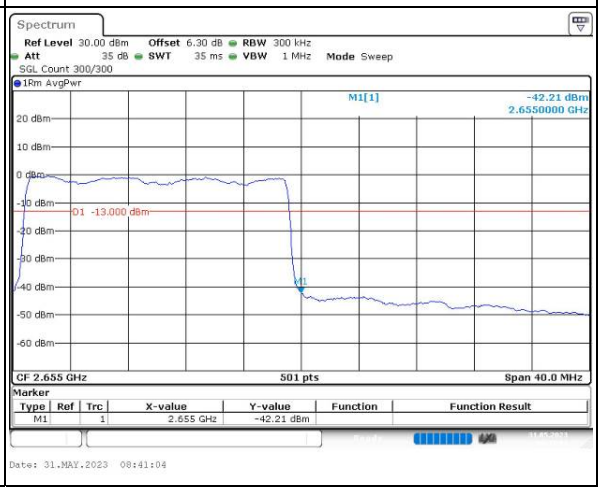
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Lowest		
Middle		

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Middle		
Highest		
Highest		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 20MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		
16QAM 10MHz		
16QAM 15MHz		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 20MHz		

4.18 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	25K9-3	Test Date:	2023/05/30~2023/05/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	George Chen	Test Result:	**Pass**

Environmental Conditions:					
Temperature:	26.7~27.2	Relative Humidity:	49~55	ATM Pressure:	99.6~100.0

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2023/3/31	2024/3/30
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
Unknown	Coaxial tee connector	Unknown	2204004	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
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	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:

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	22.76	22.68	22.49	24.68	30
	RB1#3	22.88	22.86	22.67		
	RB1#5	22.72	22.66	22.5		
	RB3#0	22.77	22.75	22.62		
	RB3#3	22.81	22.76	22.54		
	RB6#0	21.83	21.74	21.56		
1.4MHz 16QAM	RB1#0	21.8	21.64	21.54	23.83	30
	RB1#3	22.03	21.9	21.66		
	RB1#5	21.83	21.68	21.53		
	RB3#0	21.66	21.77	21.73		
	RB3#3	21.68	21.8	21.75		
	RB6#0	20.82	20.7	20.65		
3MHz QPSK	RB1#0	22.78	22.77	22.62	24.58	30
	RB1#8	22.72	22.76	22.62		
	RB1#14	22.73	22.76	22.61		
	RB6#0	21.77	21.72	21.52		
	RB6#9	21.76	21.73	21.58		
	RB15#0	21.76	21.76	21.56		
3MHz 16QAM	RB1#0	22.24	21.89	21.63	24.04	30
	RB1#8	22.19	21.87	21.61		
	RB1#14	22.22	21.86	21.58		
	RB6#0	20.85	20.75	20.56		
	RB6#9	20.81	20.8	20.54		
	RB15#0	20.89	20.75	20.67		
5MHz QPSK	RB1#0	22.71	22.68	22.51	24.6	30
	RB1#13	22.76	22.8	22.6		
	RB1#24	22.67	22.71	22.49		
	RB15#0	21.78	21.75	21.61		
	RB15#10	21.74	21.73	21.57		
	RB25#0	21.71	21.69	21.57		
5MHz 16QAM	RB1#0	21.58	21.96	21.6	23.86	30
	RB1#13	21.66	22.06	21.65		
	RB1#24	21.67	21.97	21.56		
	RB15#0	20.88	20.76	20.64		
	RB15#10	20.82	20.73	20.65		
	RB25#0	20.8	20.74	20.6		

10MHz QPSK	RB1#0	22.76	22.75	22.66	24.71	30
	RB1#25	22.86	22.91	22.69		
	RB1#49	22.84	22.73	22.61		
	RB25#0	21.77	21.77	21.61		
	RB25#25	21.8	21.73	21.6		
	RB50#0	21.81	21.76	21.63		
10MHz 16QAM	RB1#0	22.23	21.91	21.63	24.18	30
	RB1#25	22.38	22.11	21.78		
	RB1#49	22.38	21.87	21.63		
	RB25#0	20.85	20.84	20.76		
	RB25#25	20.9	20.79	20.73		
	RB50#0	20.84	20.8	20.68		
15MHz QPSK	RB1#0	22.69	22.65	22.63	24.65	30
	RB1#38	22.85	22.79	22.64		
	RB1#74	22.76	22.67	22.49		
	RB36#0	21.86	21.82	21.76		
	RB36#39	21.93	21.79	21.65		
	RB75#0	21.88	21.84	21.7		
15MHz 16QAM	RB1#0	21.84	22.07	22.21	24.01	30
	RB1#38	21.93	22.17	22.2		
	RB1#74	21.89	22.06	22.02		
	RB36#0	20.82	20.81	20.77		
	RB36#39	20.9	20.76	20.69		
	RB75#0	20.91	20.81	20.75		
20MHz QPSK	RB1#0	22.54	22.54	22.39	24.75	30
	RB1#50	22.95	22.94	22.82		
	RB1#99	22.59	22.55	22.31		
	RB50#0	21.77	21.76	21.74		
	RB50#50	21.84	21.72	21.64		
	RB100#0	21.83	21.76	21.71		
20MHz 16QAM	RB1#0	21.8	21.72	21.88	24.16	30
	RB1#50	22.27	22.08	22.36		
	RB1#99	21.91	21.7	21.86		
	RB50#0	20.82	20.83	20.78		
	RB50#50	20.92	20.71	20.68		
	RB100#0	20.89	20.76	20.73		
Note: EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)						
					Result:	**Pass**

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	3.94	4.64	4.93	13
	RB100#0	4.84	4.93	5.07	13
20MHz 16QAM	RB1#0	4.72	5.48	5.88	13
	RB100#0	5.77	5.83	5.97	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	1.102	1.102	1.102	1.314	1.302	1.314
1.4MHz 16QAM	1.096	1.096	1.102	1.284	1.29	1.326
3MHz QPSK	2.695	2.695	2.683	2.88	2.88	2.892
3MHz 16QAM	2.683	2.683	2.683	2.892	2.88	2.88
5MHz QPSK	4.531	4.511	4.531	5.2	5.18	5.16
5MHz 16QAM	4.511	4.551	4.531	5.14	5.18	5.3
10MHz QPSK	8.982	8.942	8.942	10	9.84	9.92
10MHz 16QAM	8.982	8.942	8.982	9.76	9.88	10.04
15MHz QPSK	13.593	13.473	13.533	15.24	15.12	15.24
15MHz 16QAM	13.593	13.533	13.533	15.18	15.18	15.24
20MHz QPSK	17.964	17.964	18.044	19.68	19.6	20
20MHz 16QAM	17.964	18.044	17.964	19.84	19.84	19.68
Note: The test plots please refer to the Plots of Occupied Bandwidth						

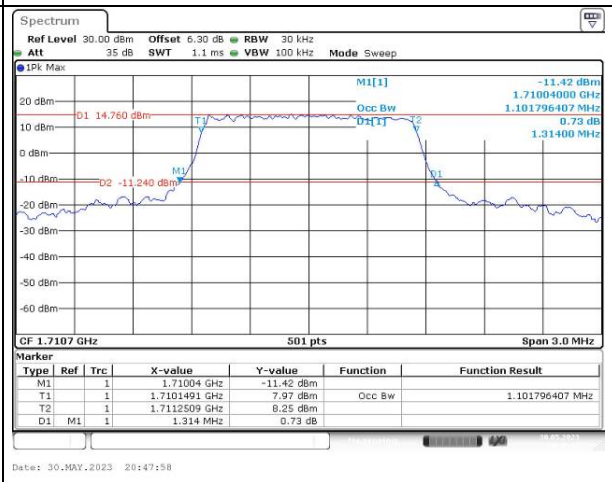
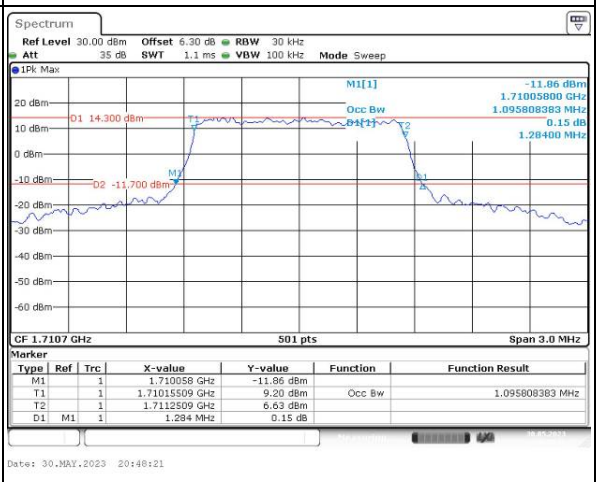
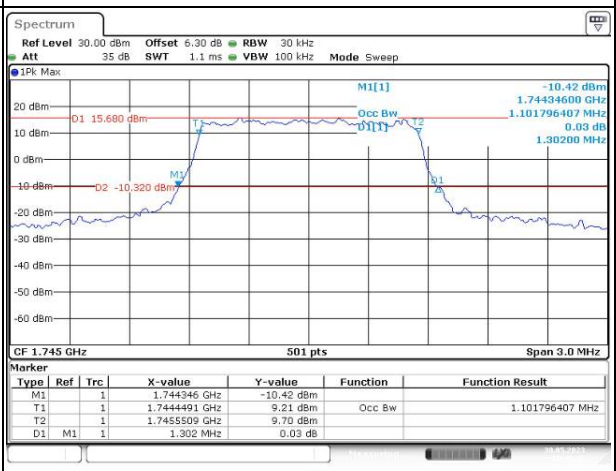
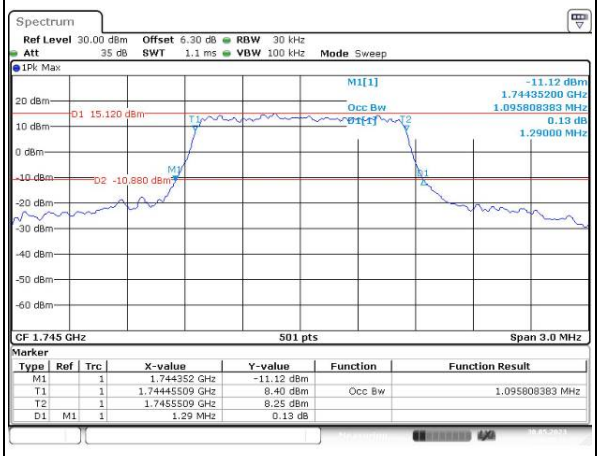
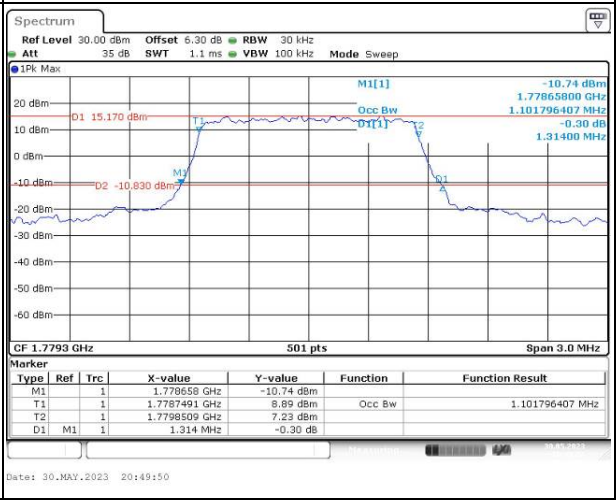
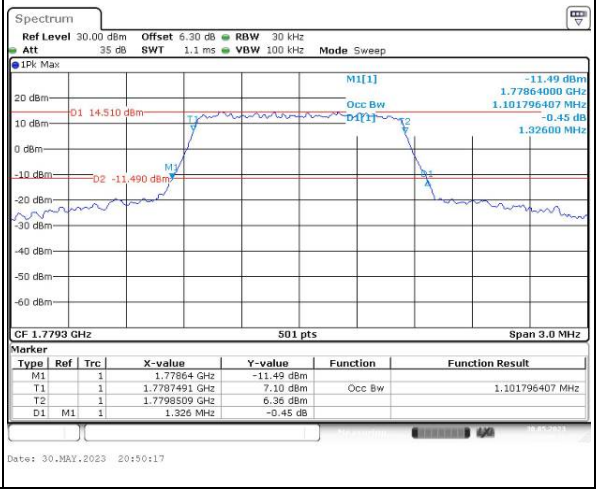
Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

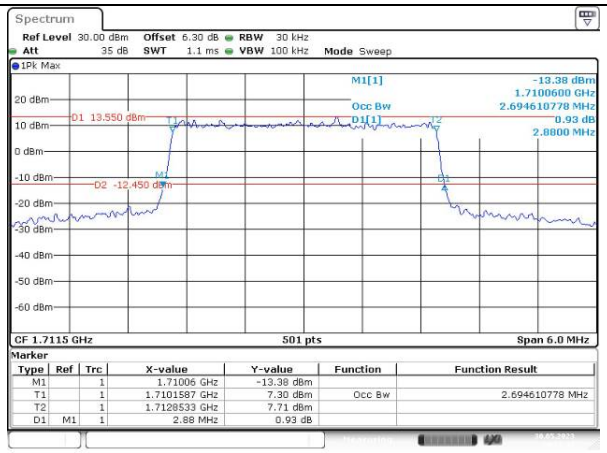
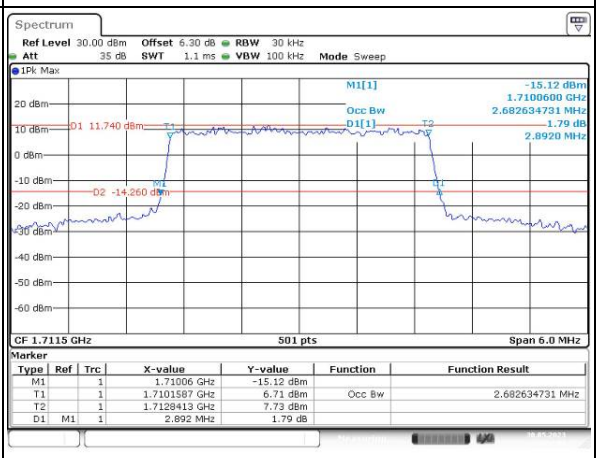
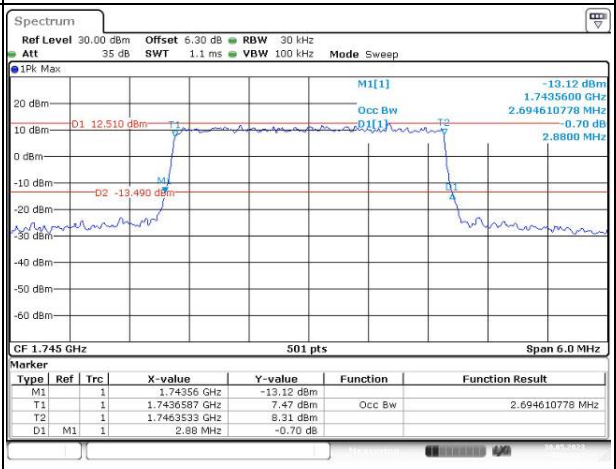
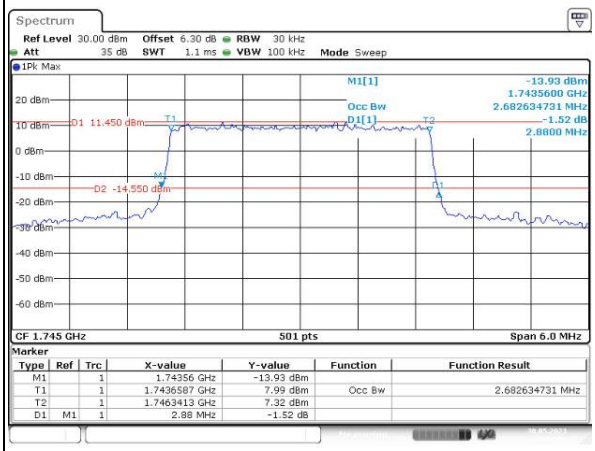
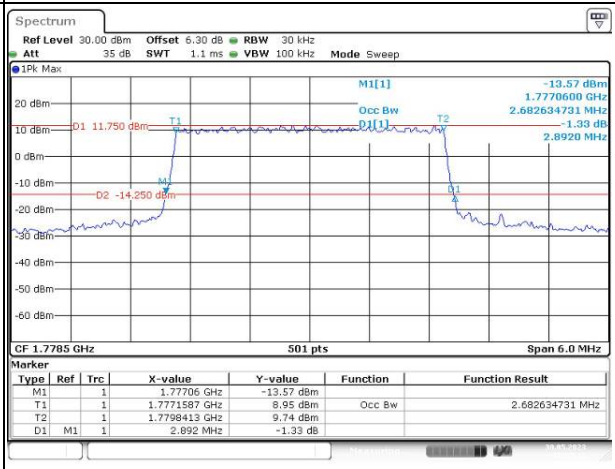
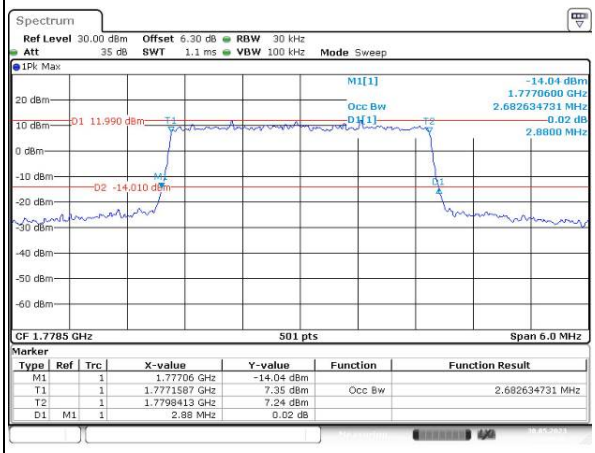
Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

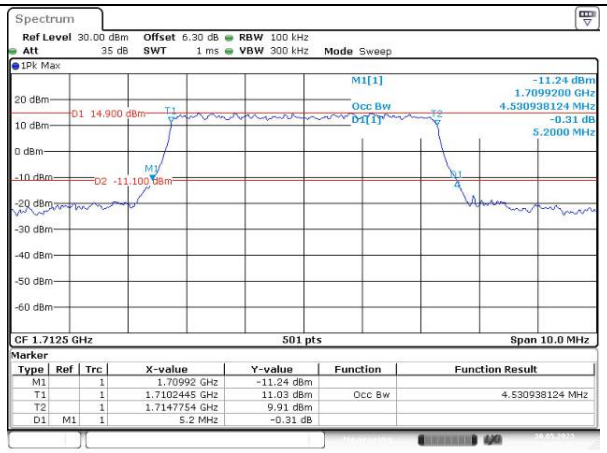
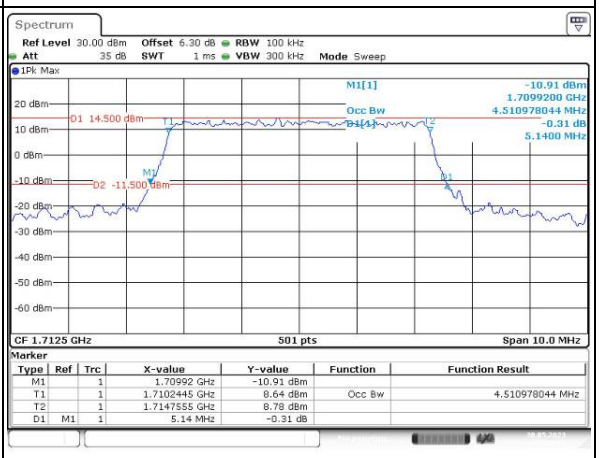
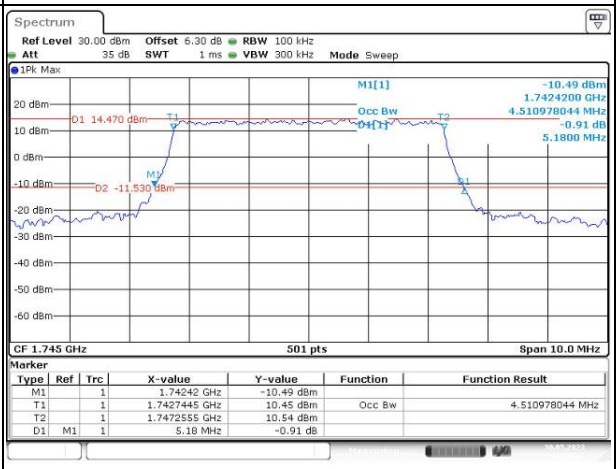
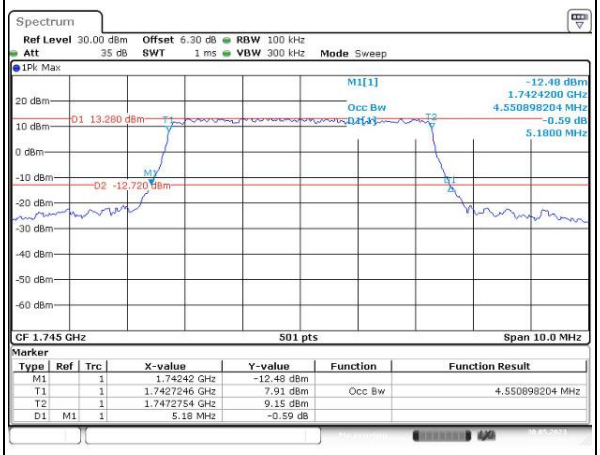
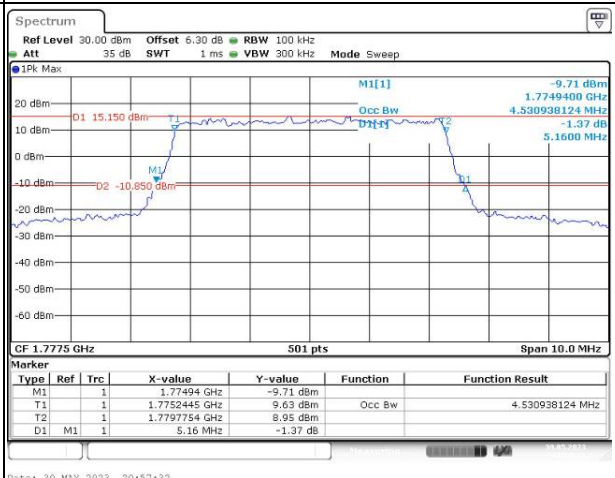
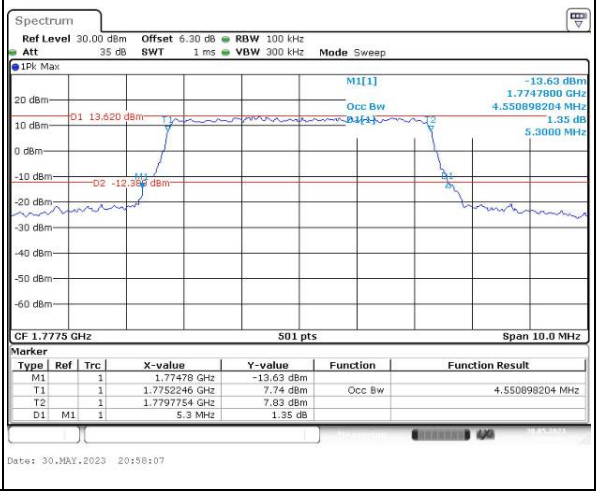
Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.069	1710.00	1779.084	1780
	-20	3.87	1711.059	1710.00	1779.087	1780
	-10	3.87	1711.044	1710.00	1779.037	1780
	0	3.87	1711.092	1710.00	1779.071	1780
	10	3.87	1711.010	1710.00	1779.078	1780
	20	3.87	1711.058	1710.00	1779.022	1780
	30	3.87	1711.076	1710.00	1779.025	1780
	40	3.87	1711.024	1710.00	1779.076	1780
	50	3.87	1711.031	1710.00	1779.083	1780
Frequency Stability vs. Voltage	20	3.47	1711.079	1710.00	1779.073	1780
	20	4.45	1711.016	1710.00	1779.064	1780
					Result:	**Pass**

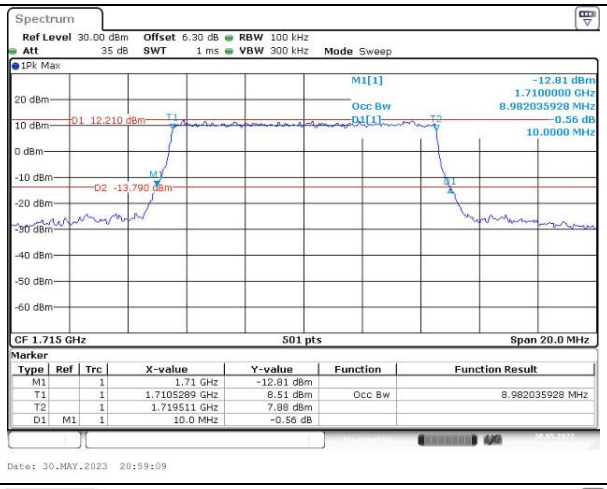
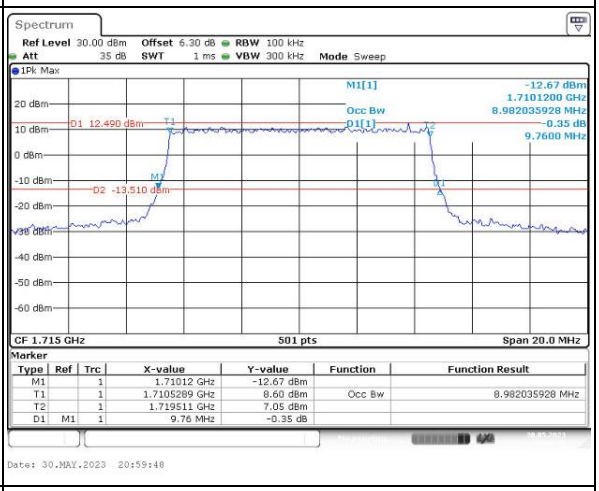
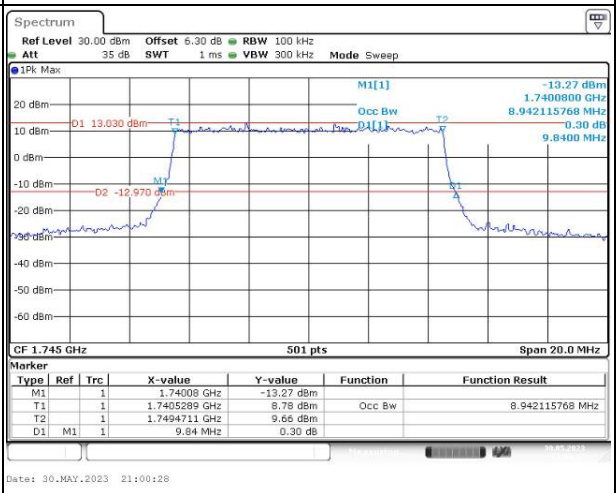
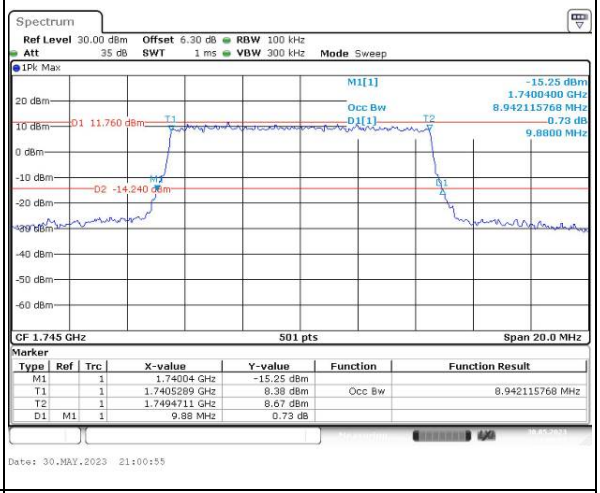
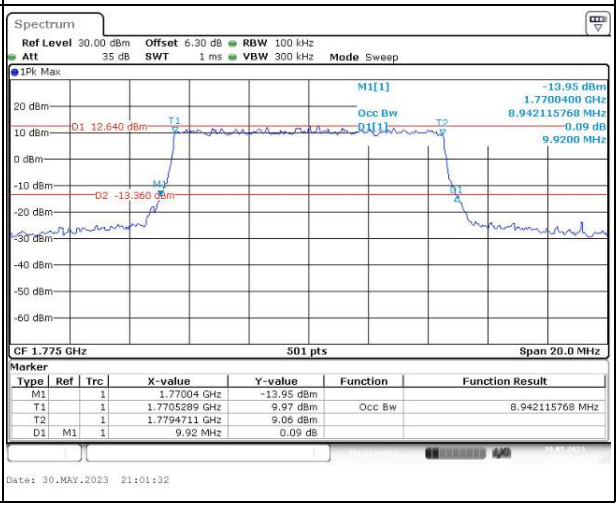
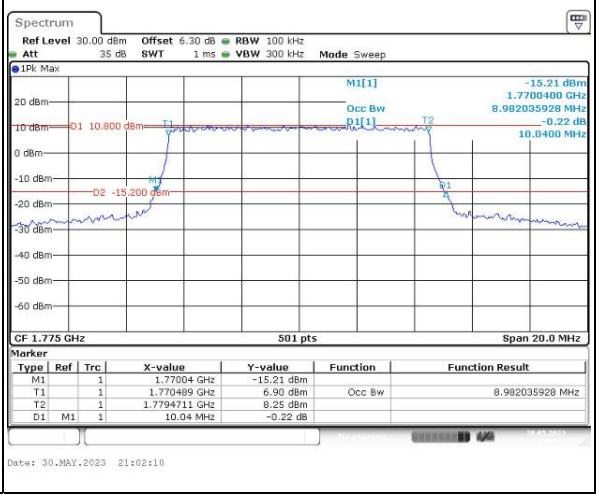
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.87	1711.038	1710.00	1779.012	1780
	-20	3.87	1711.082	1710.00	1779.011	1780
	-10	3.87	1711.086	1710.00	1779.058	1780
	0	3.87	1711.010	1710.00	1779.005	1780
	10	3.87	1711.022	1710.00	1779.044	1780
	20	3.87	1711.058	1710.00	1779.022	1780
	30	3.87	1711.091	1710.00	1779.097	1780
	40	3.87	1711.022	1710.00	1779.089	1780
	50	3.87	1711.050	1710.00	1779.053	1780
Frequency Stability vs. Voltage	20	3.47	1711.028	1710.00	1779.002	1780
	20	4.45	1711.061	1710.00	1779.015	1780
					Result:	**Pass**

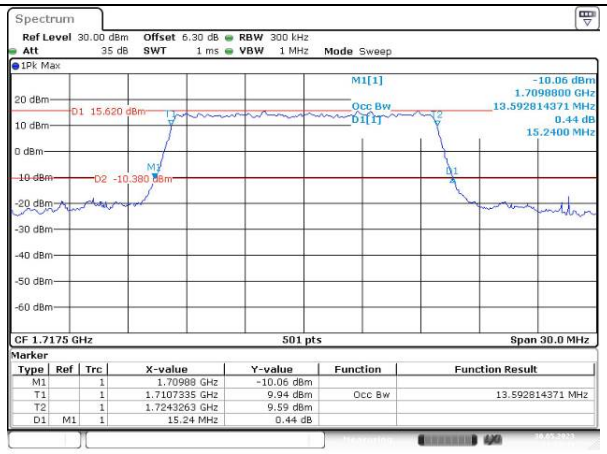
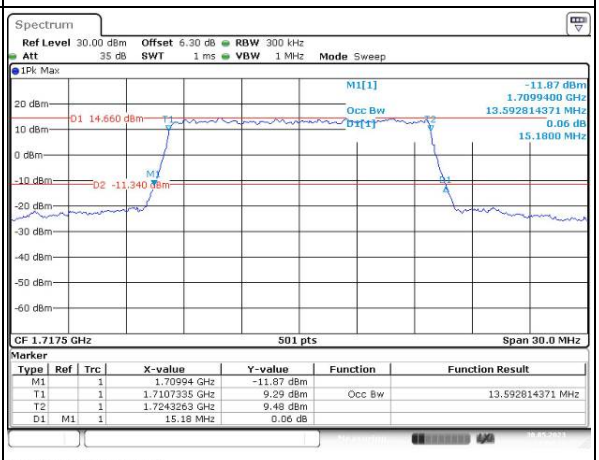
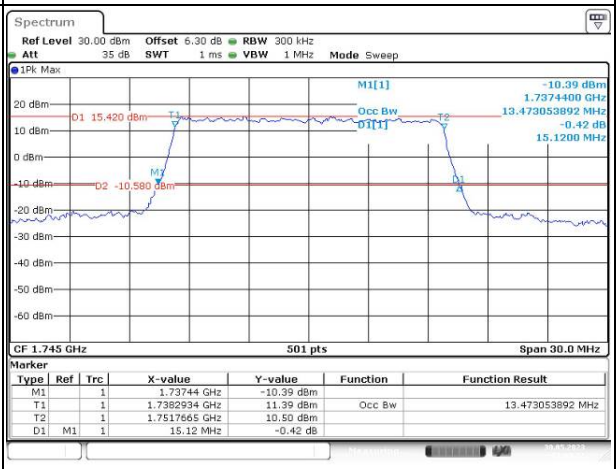
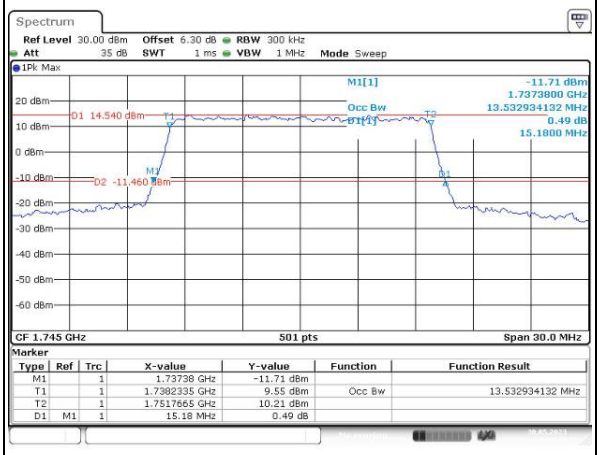
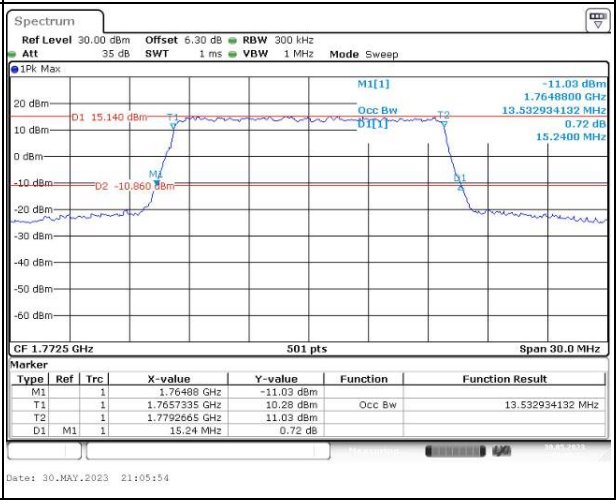
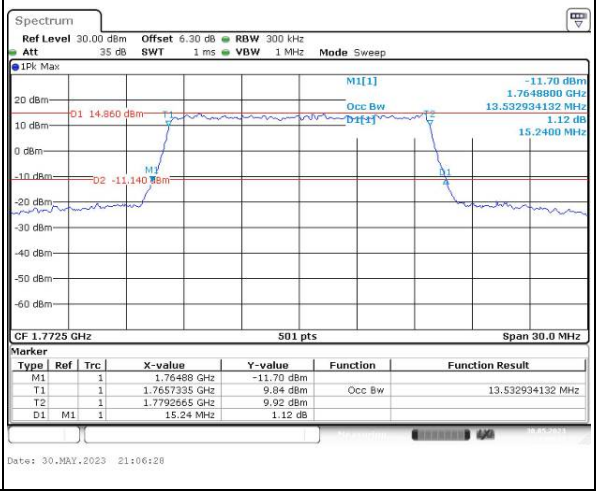
Test Plots(Note: The 6.3dB is the Insertion loss of the RF cable, Coaxial tee connector and DC Block, which was offset into the Spectrum Analyzer)**:**

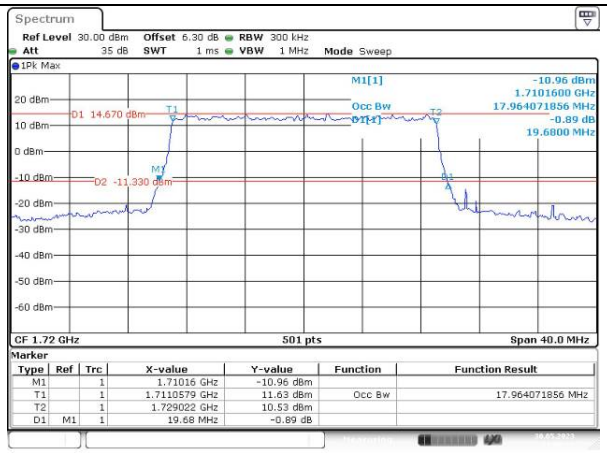
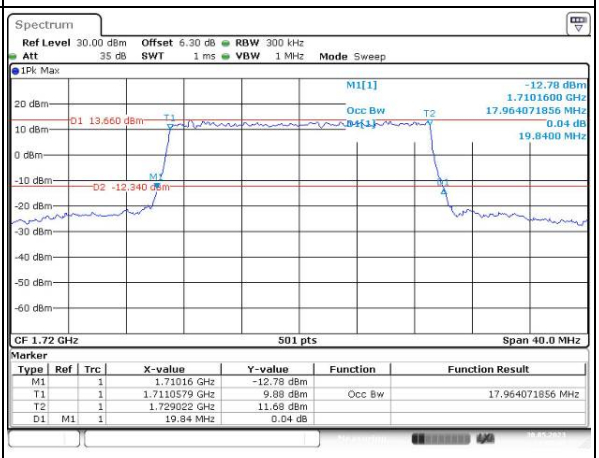
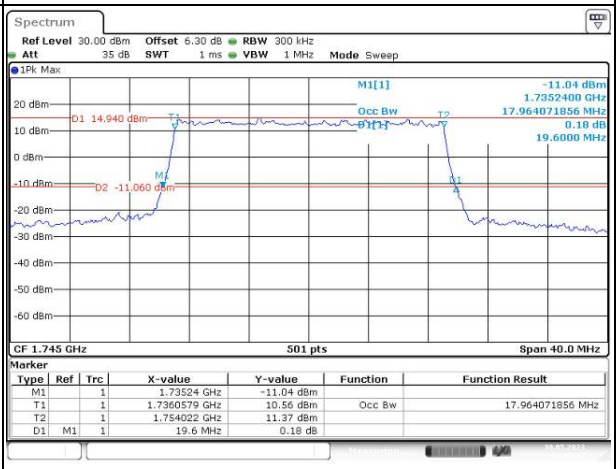
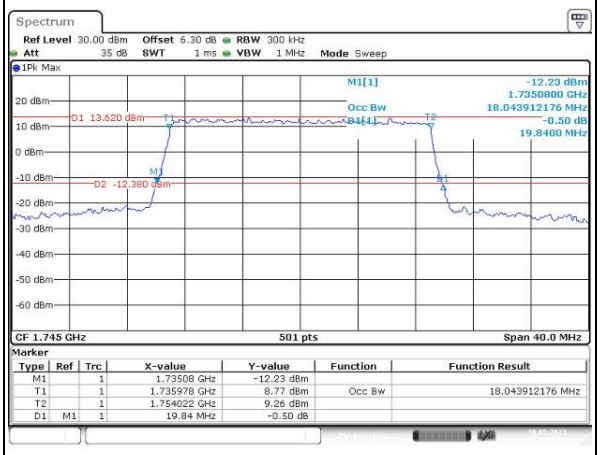
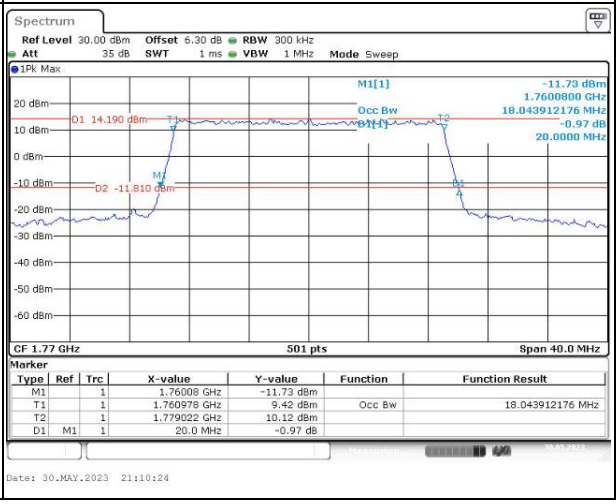
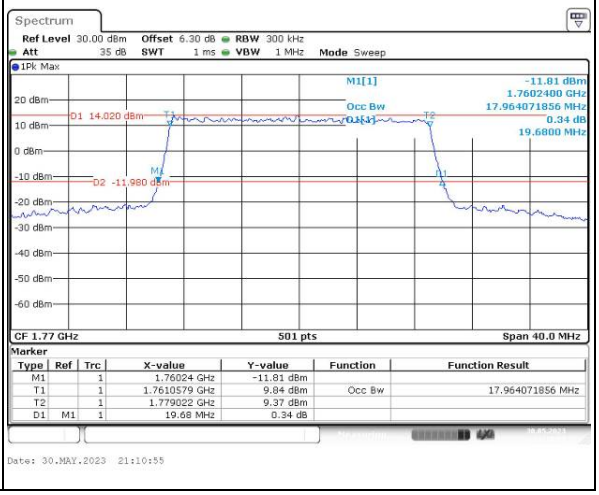
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

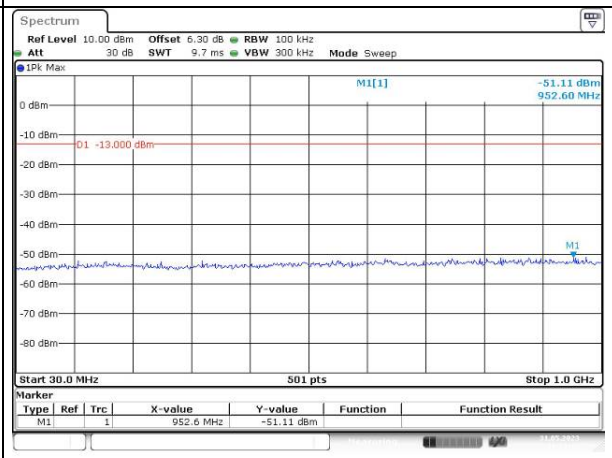
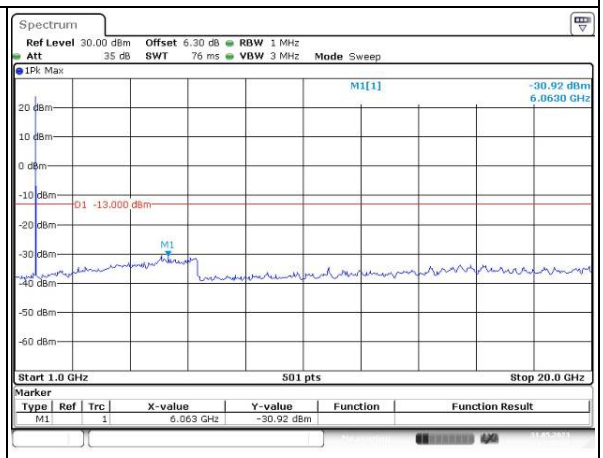
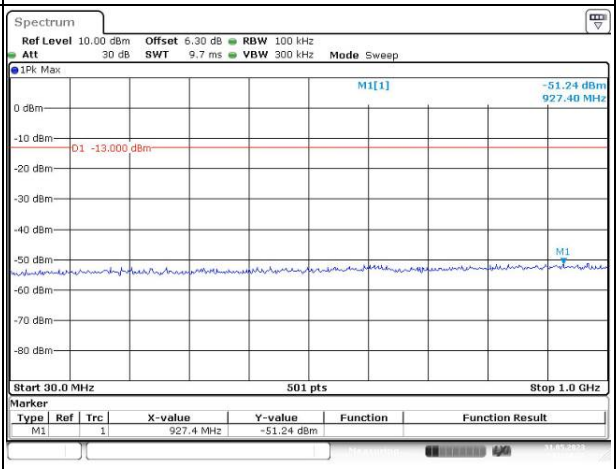
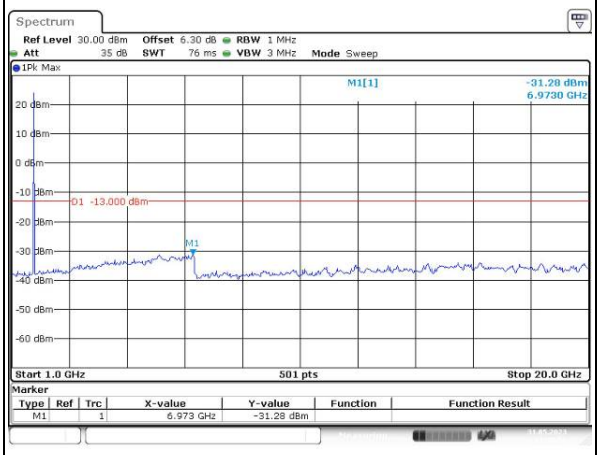
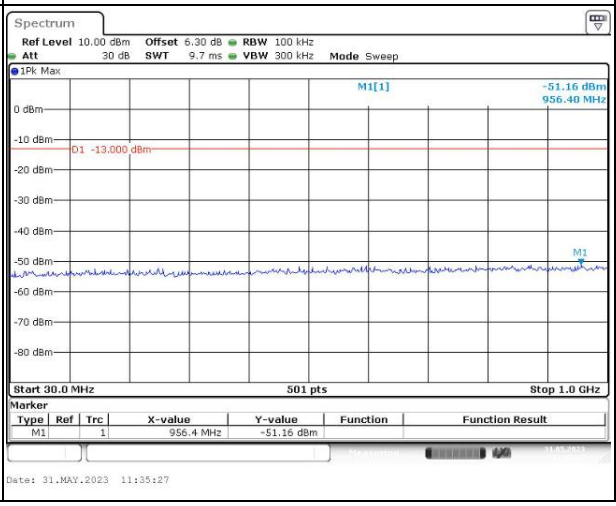
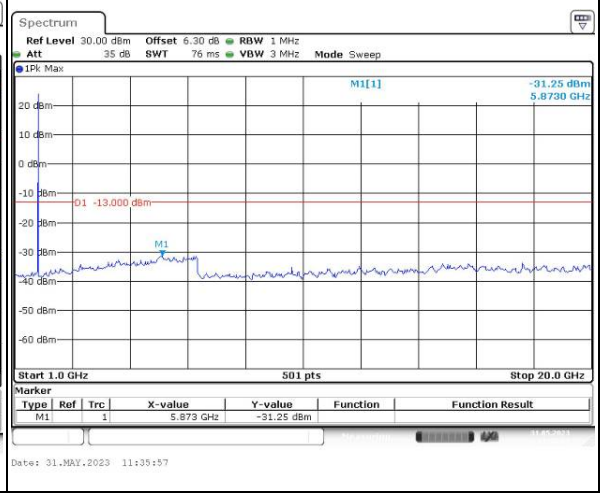
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

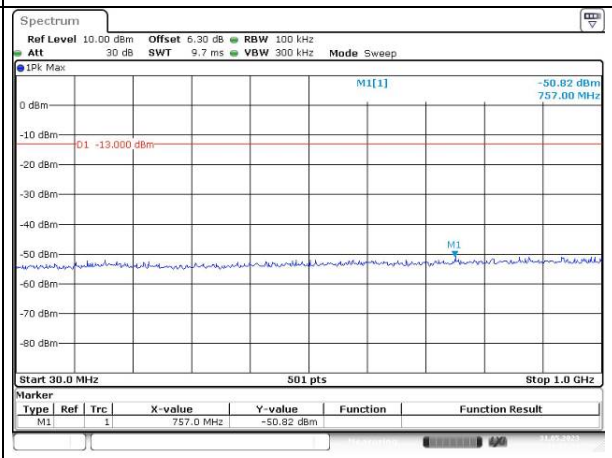
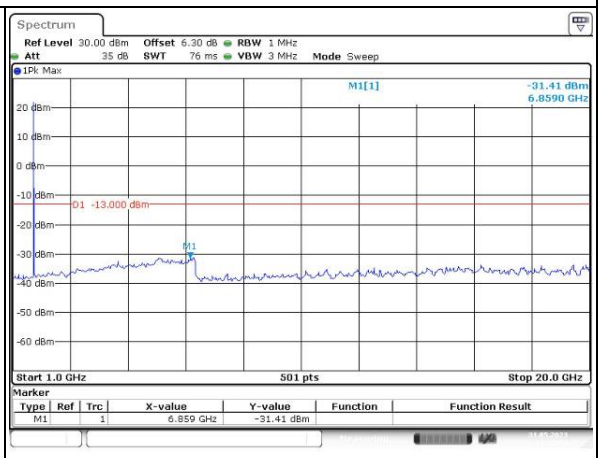
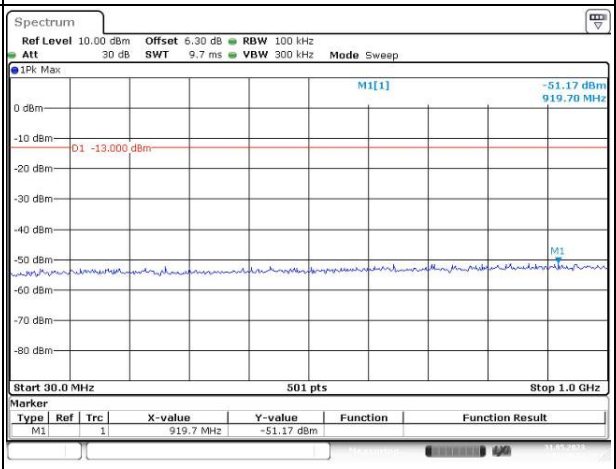
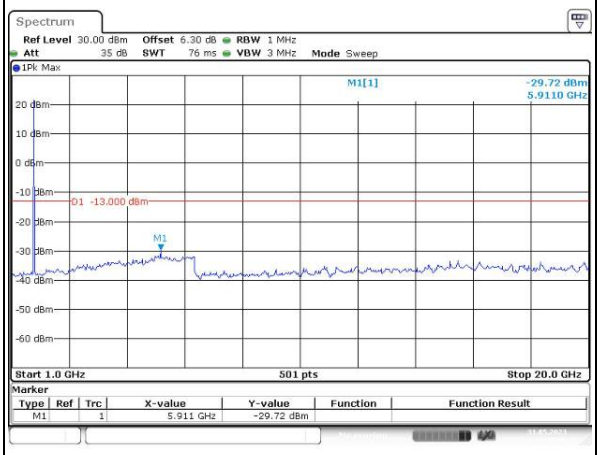
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

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

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	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

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