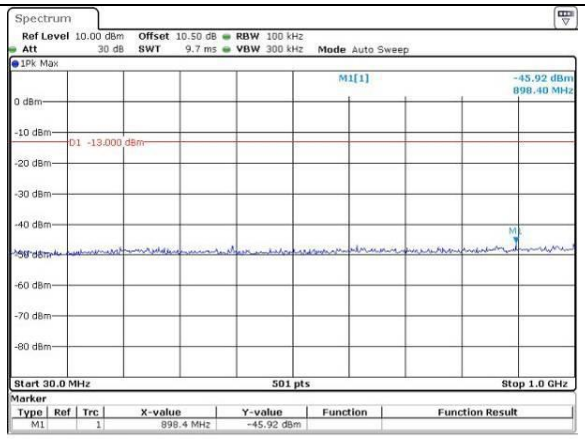
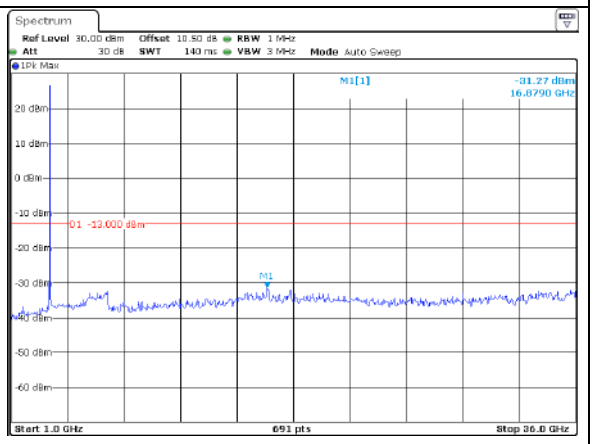
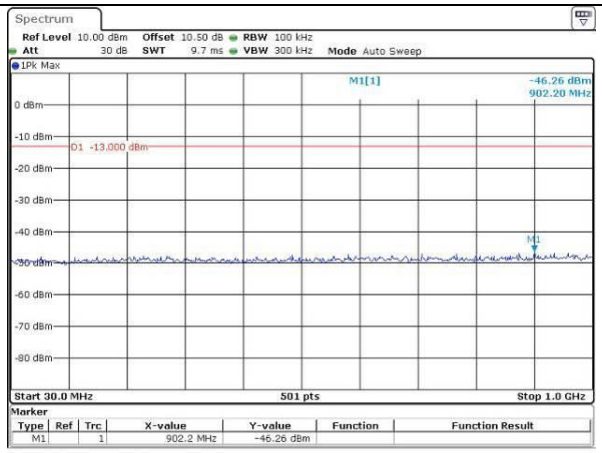
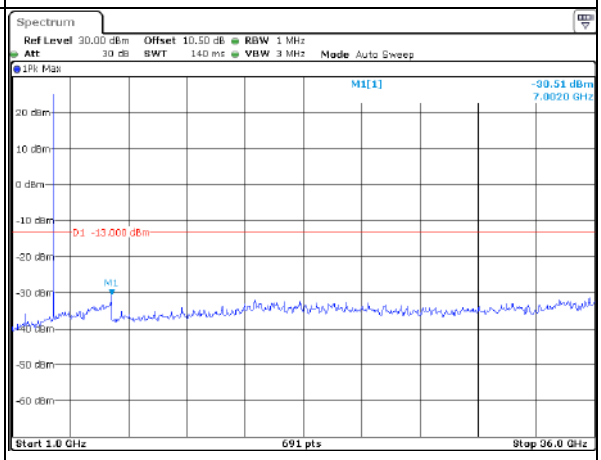
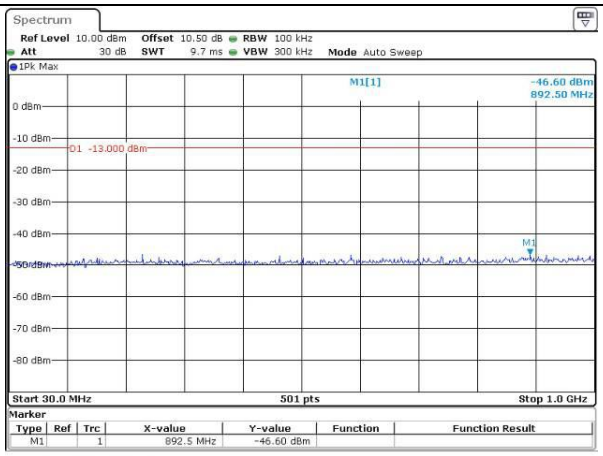
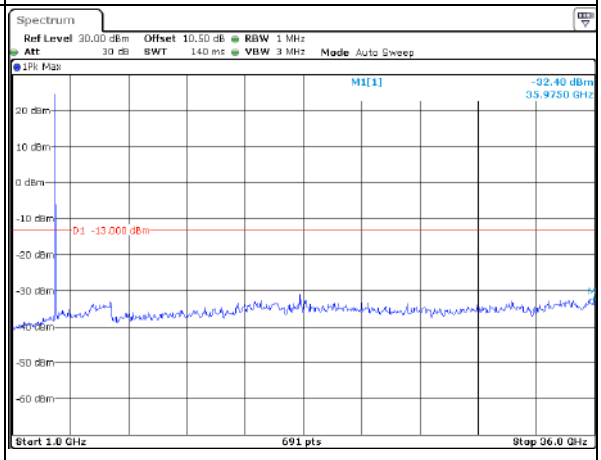
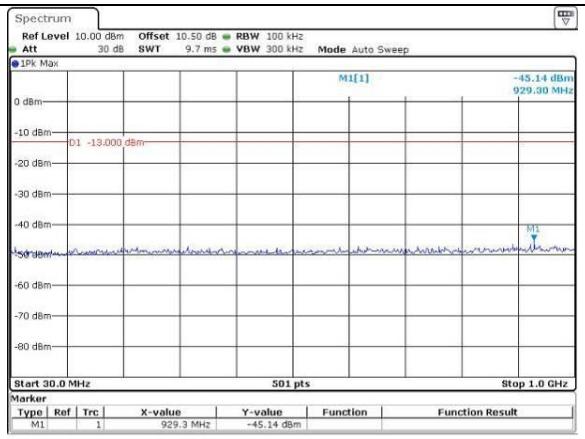
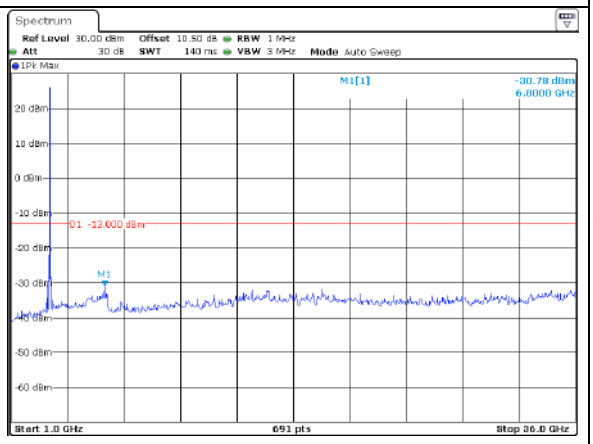
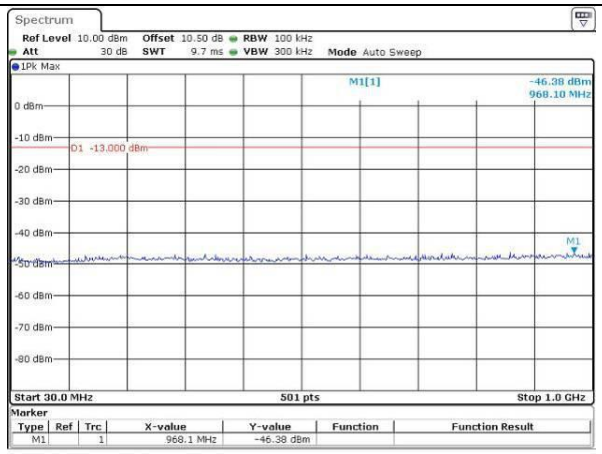
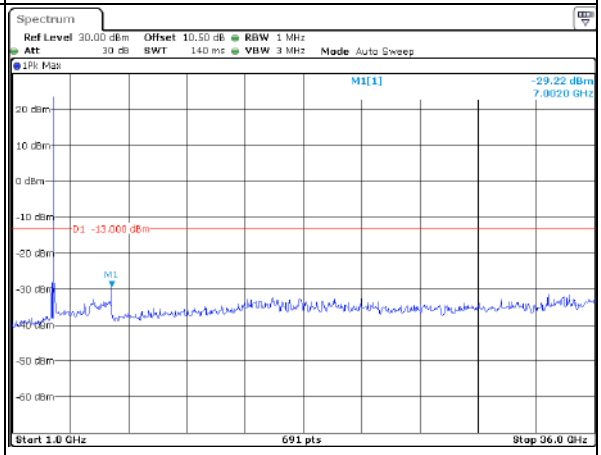
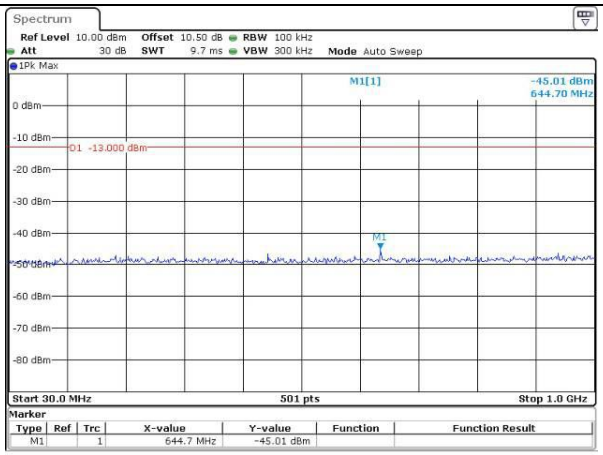
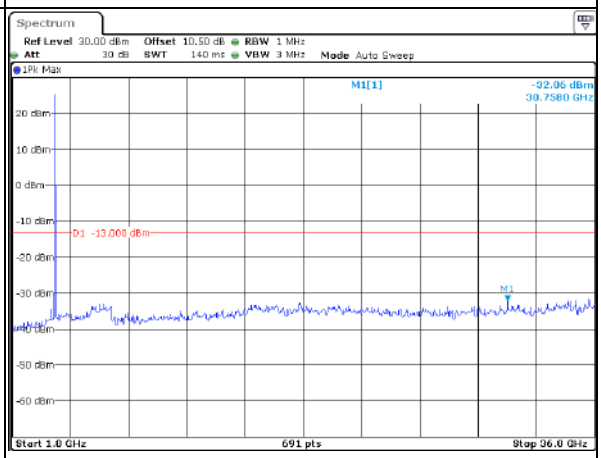
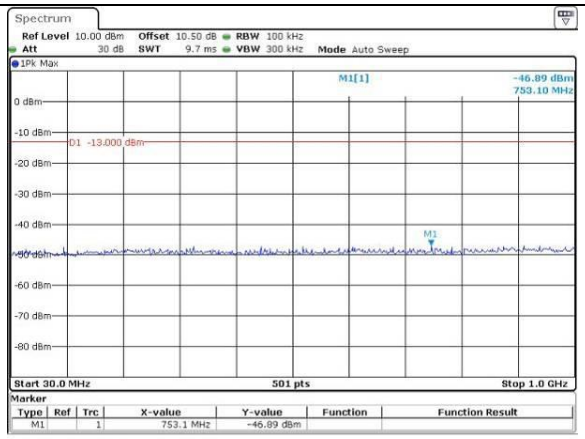
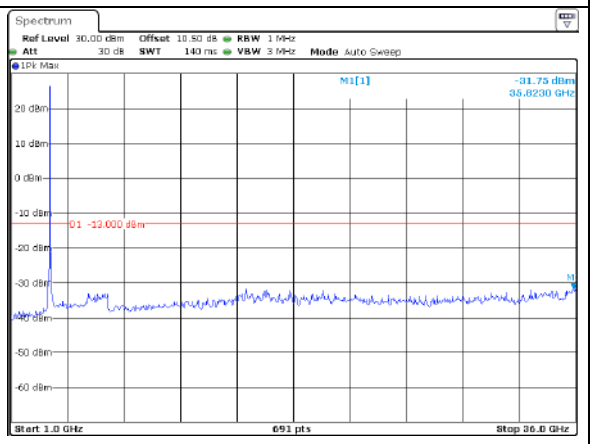
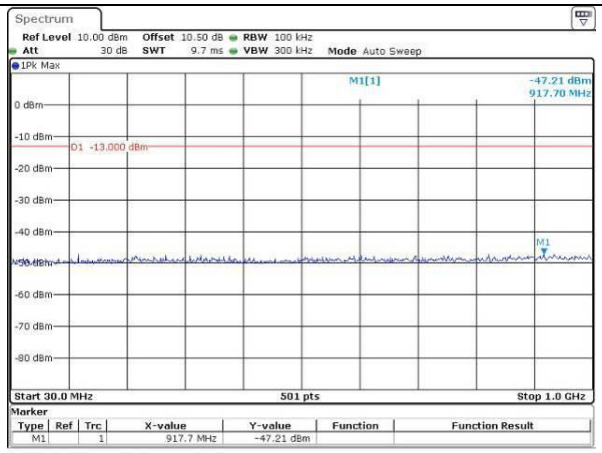
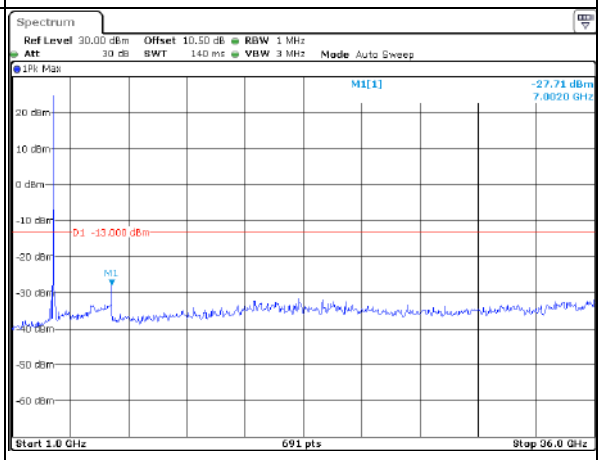
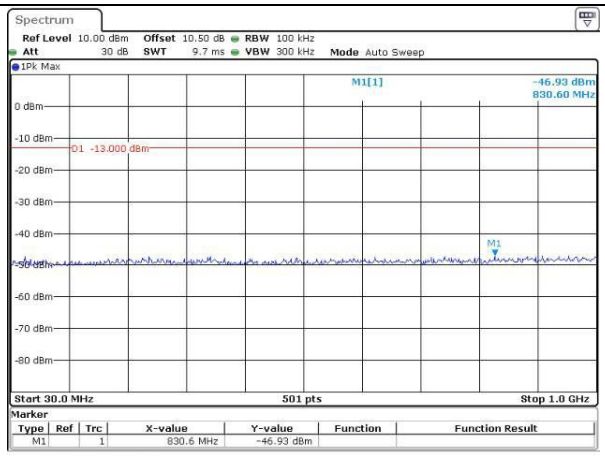
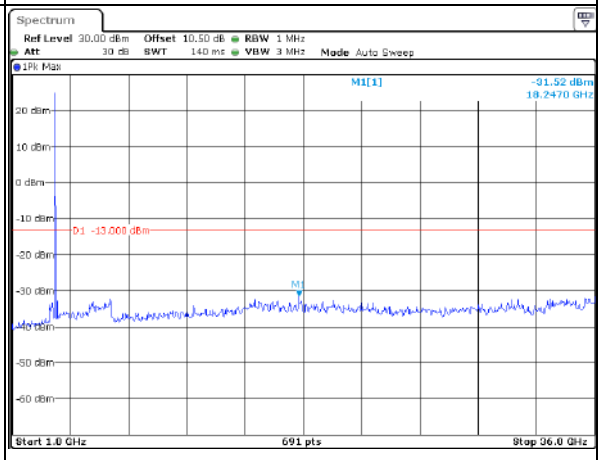
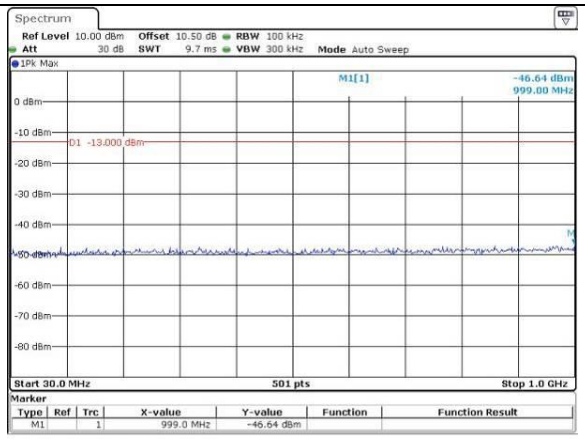
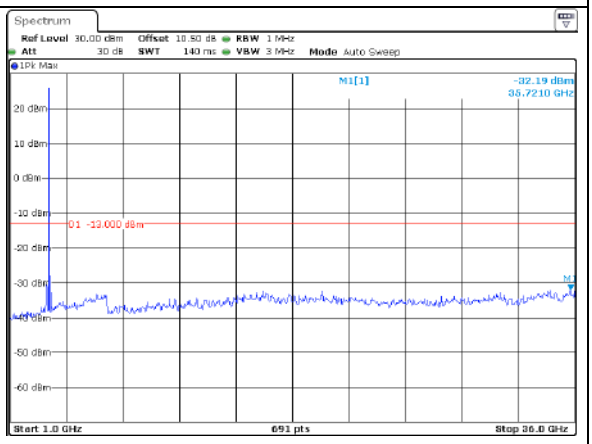
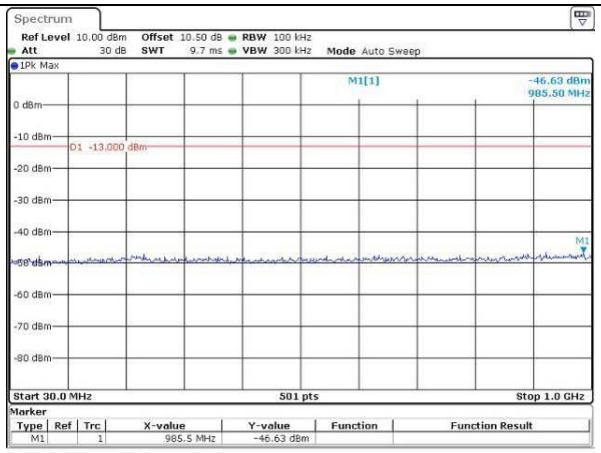
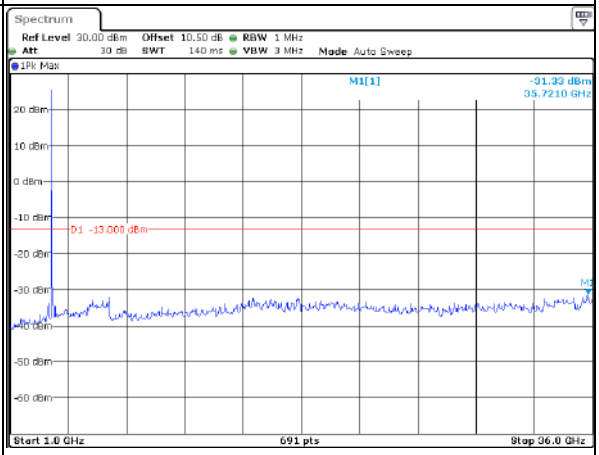
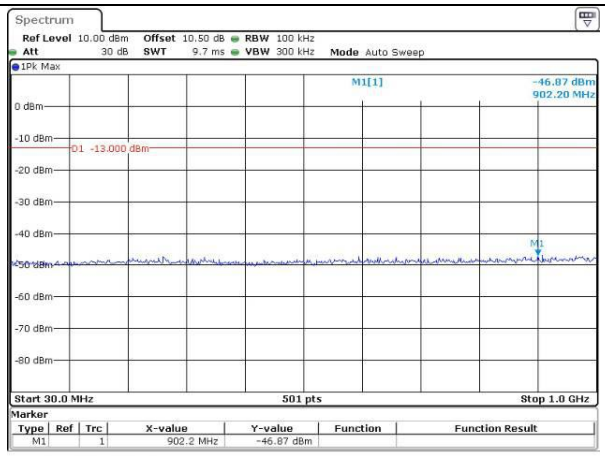
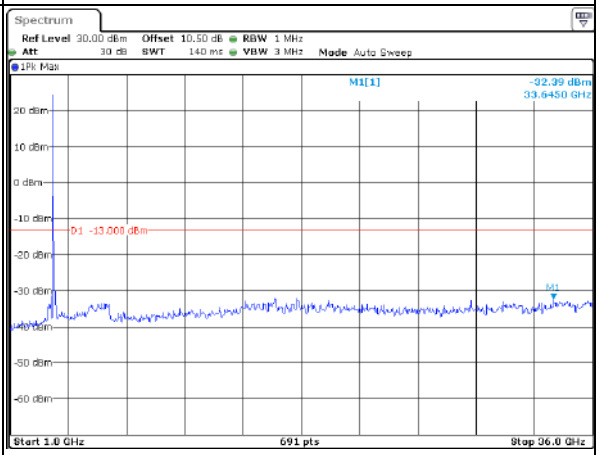
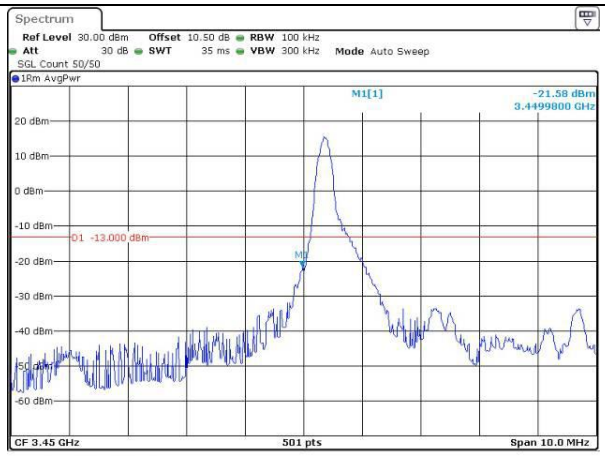
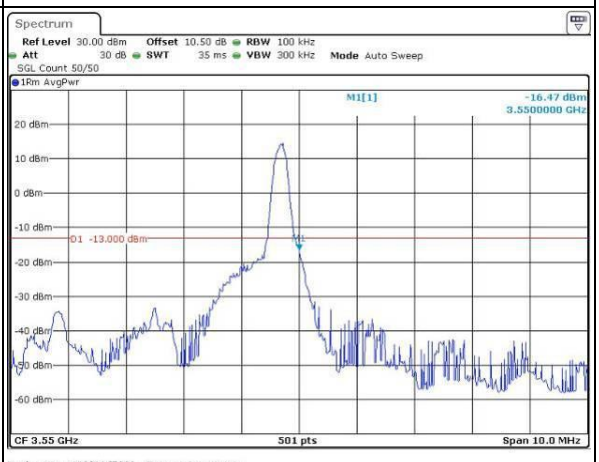
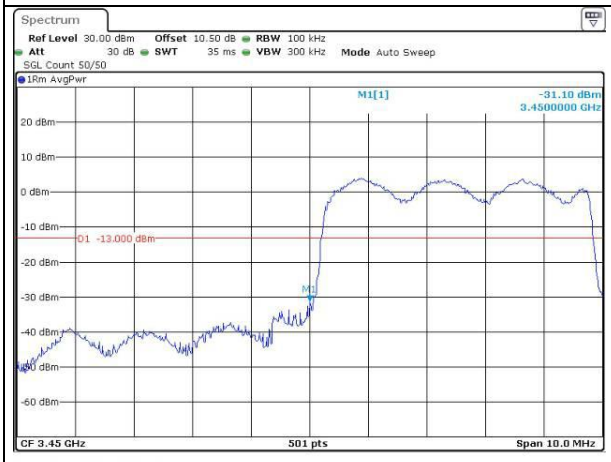
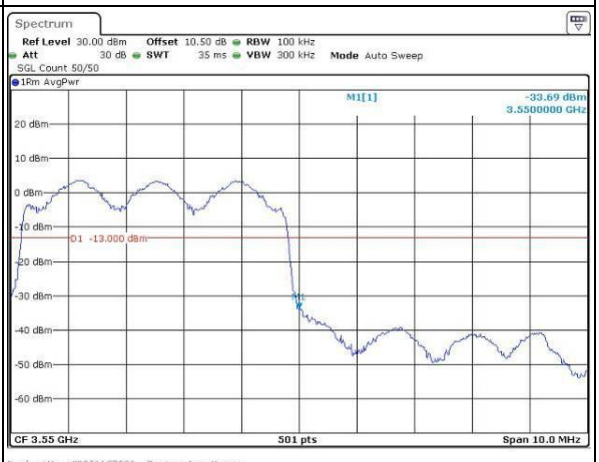
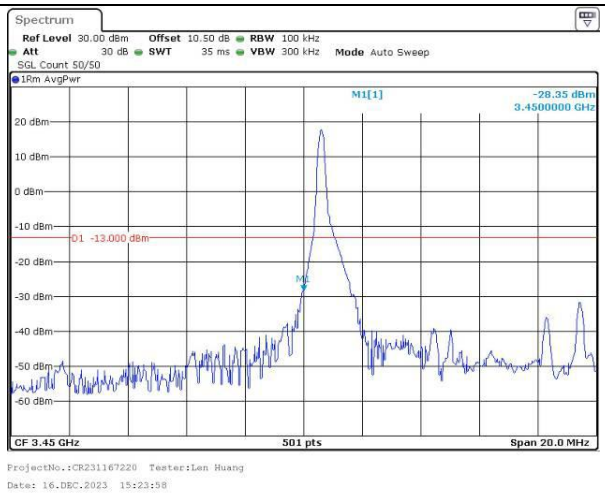
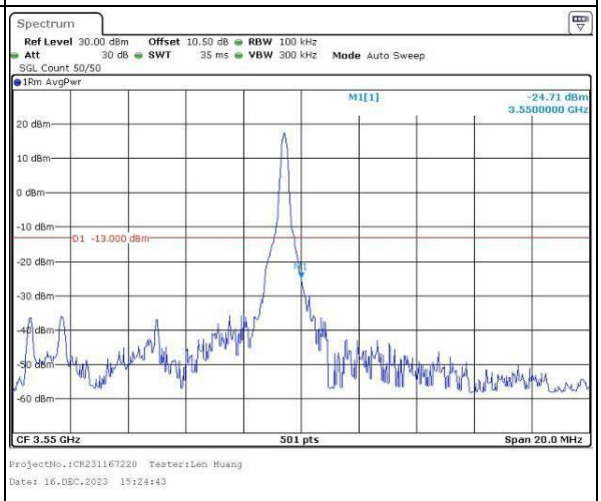
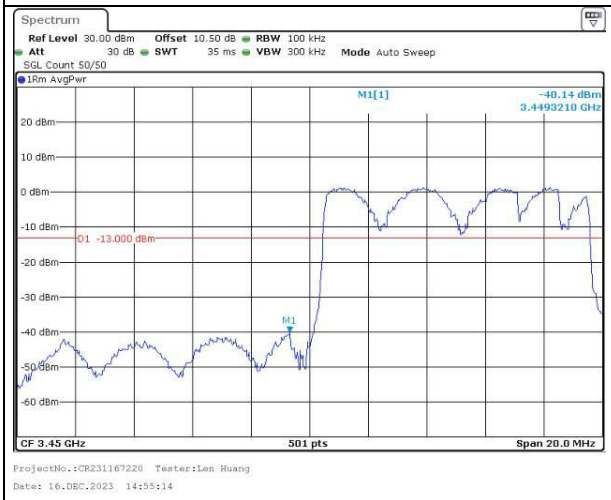
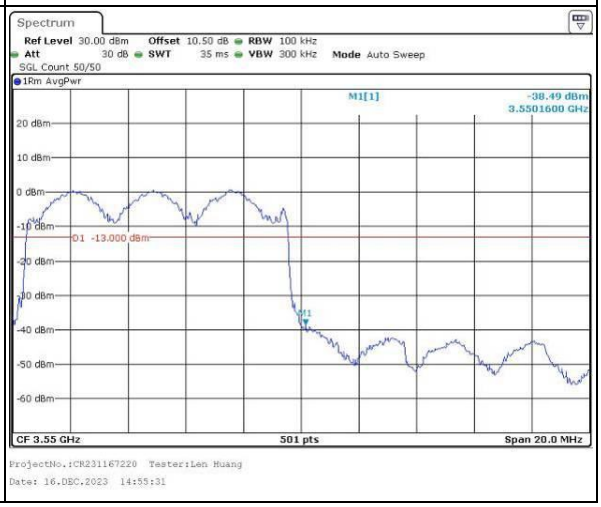
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

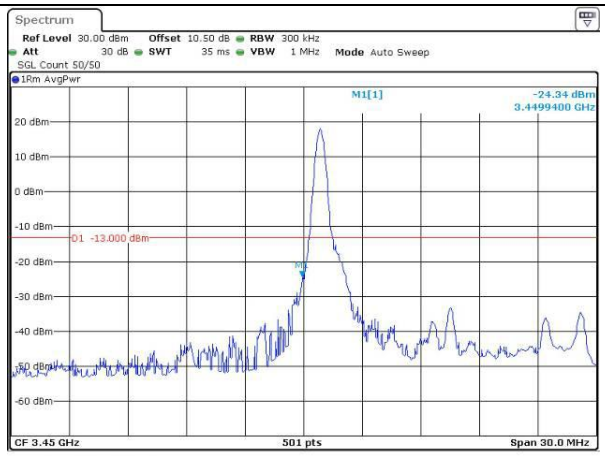
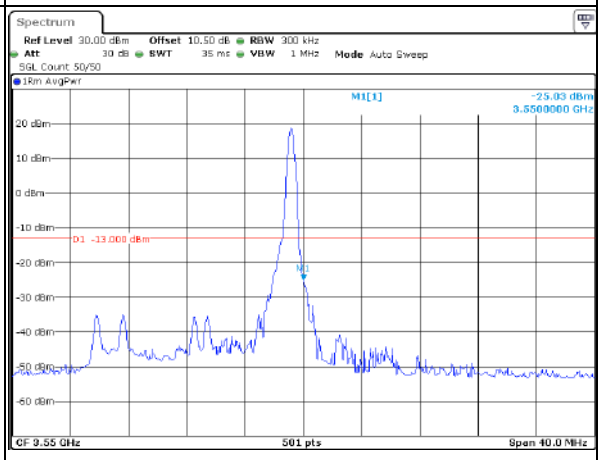
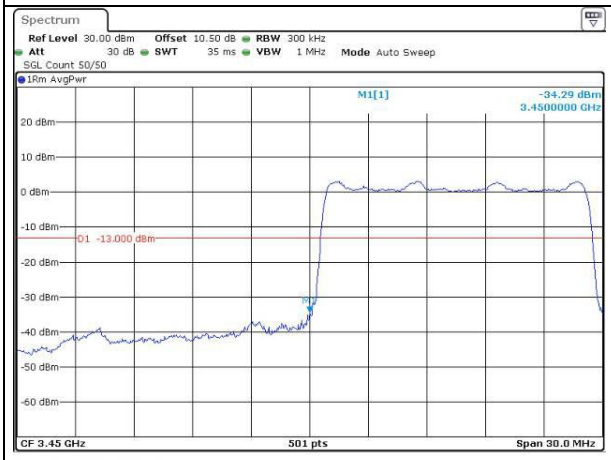
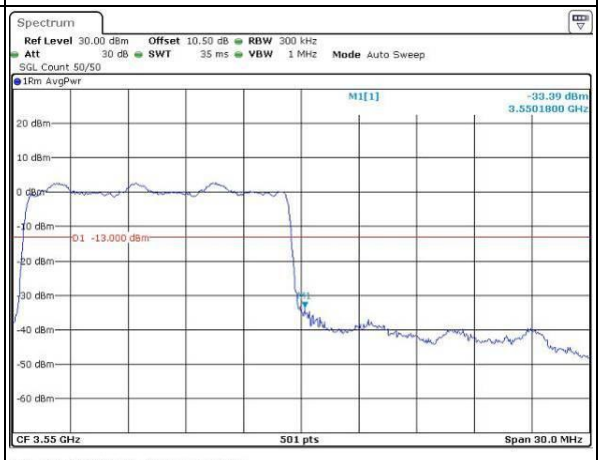
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

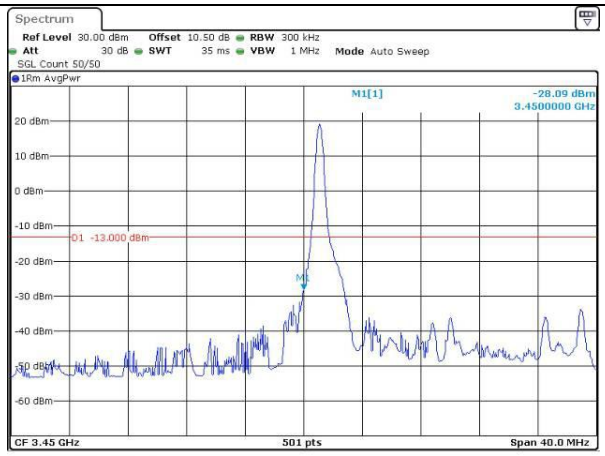
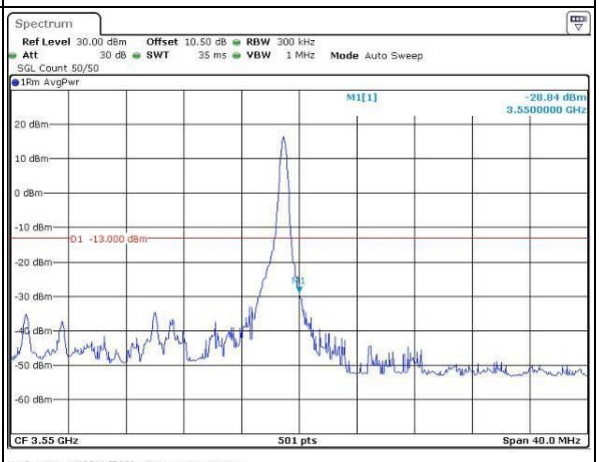
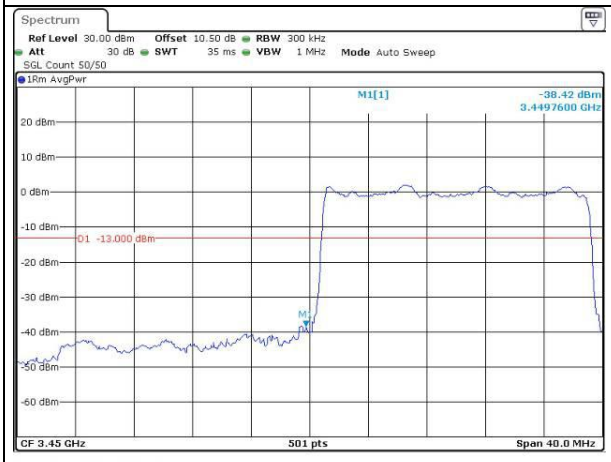
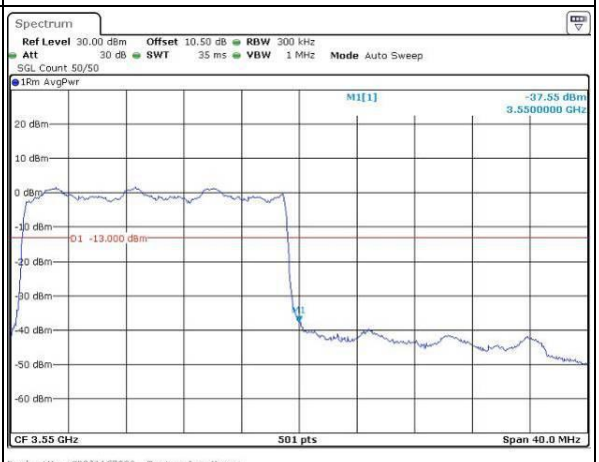
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

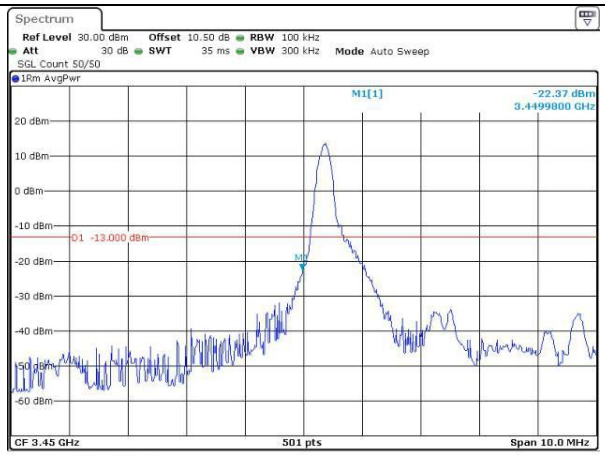
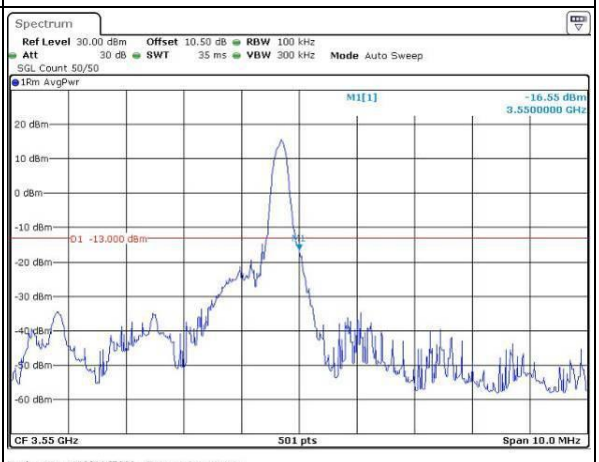
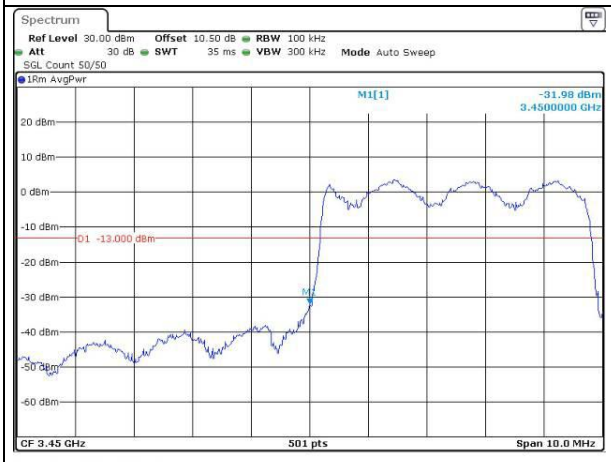
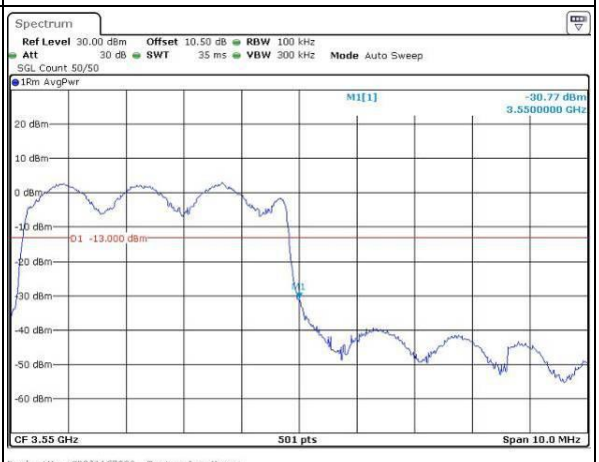
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

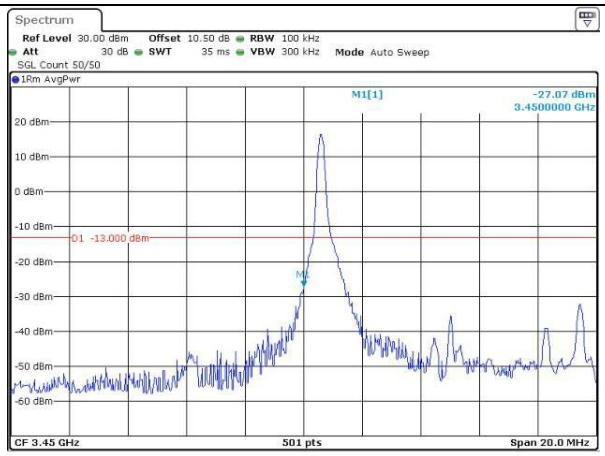
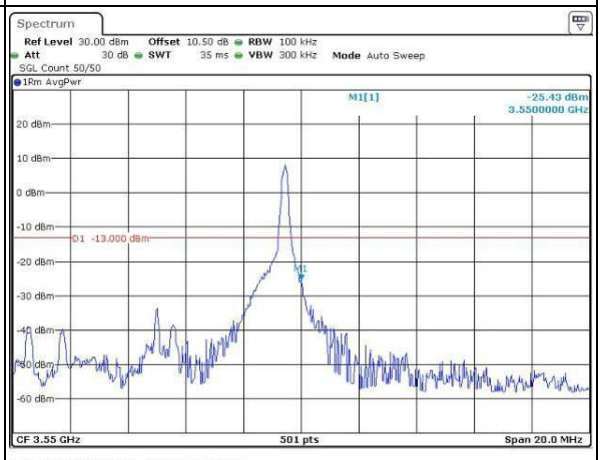
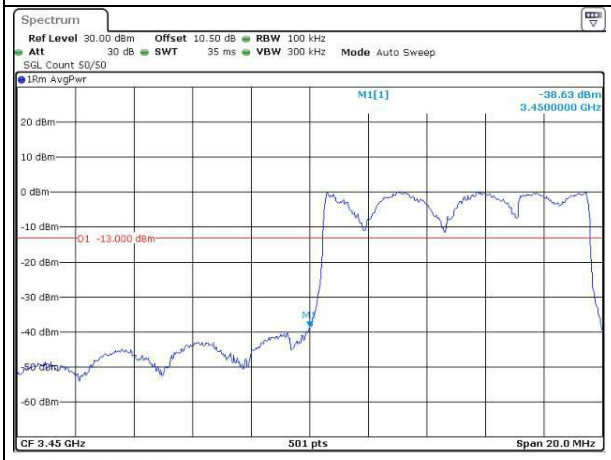
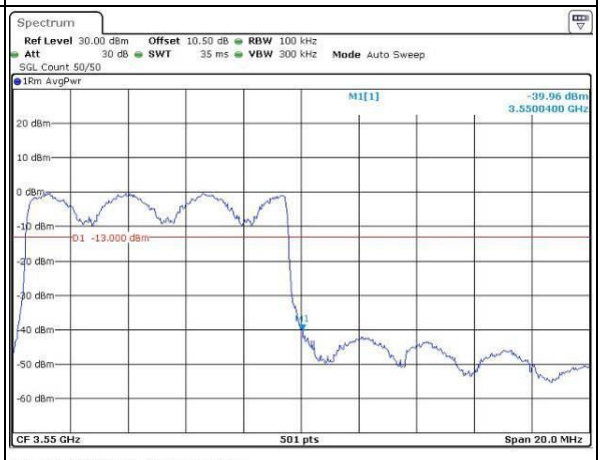
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 5MHz		
	Lowest/Full RB	**Highest/Full RB**
		

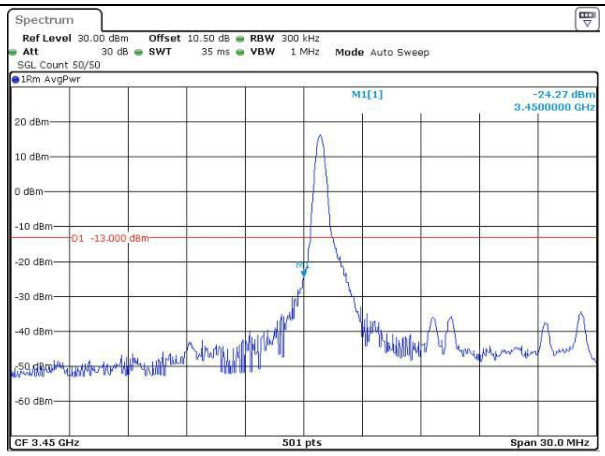
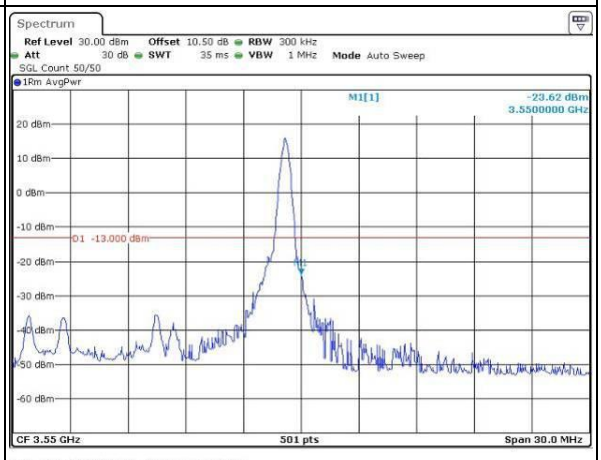
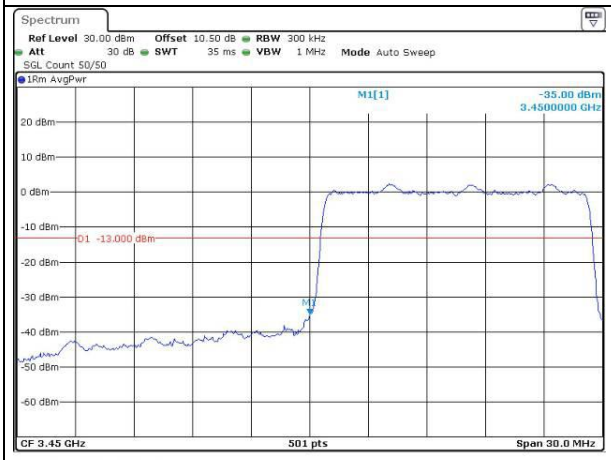
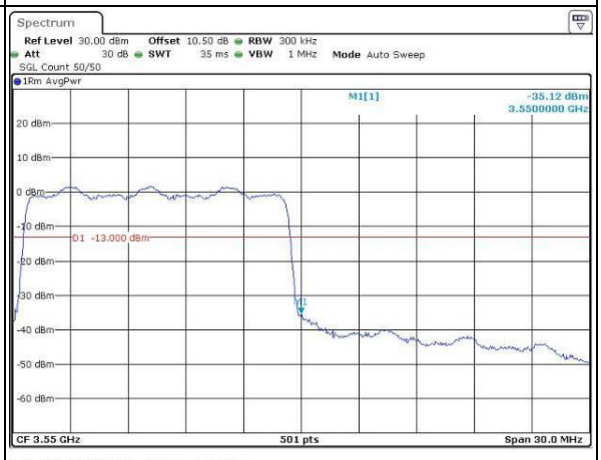
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 10MHz		
	Lowest/Full RB	**Highest/Full RB**
		

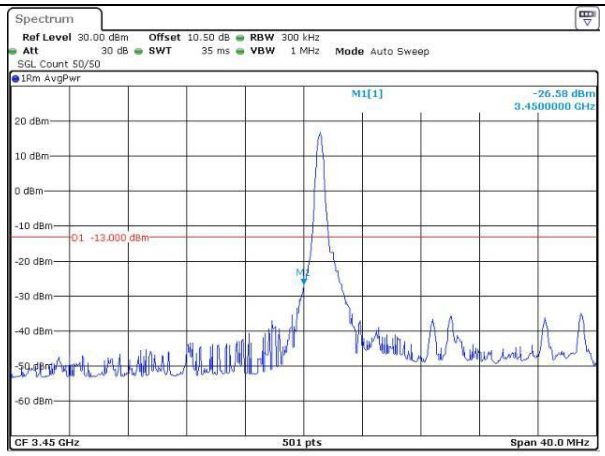
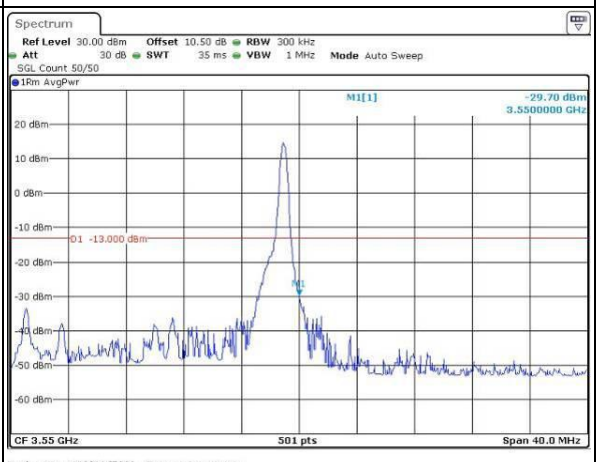
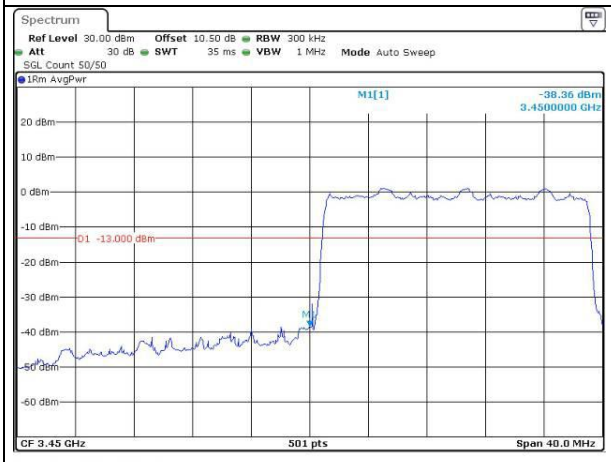
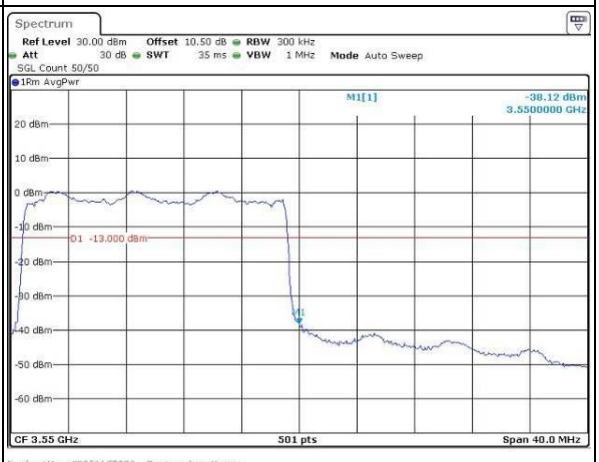
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 15MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 20MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 5MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 10MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 15MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 20MHz		
	Lowest/Full RB	**Highest/Full RB**
		

4.16 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	2DMI-1	Test Date:	2023/11/22~2023/12/21
Test Site:	RF	Test Mode:	Transmitting
Tester:	Len Huang	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.3~26	Relative Humidity: (%)	40~55	ATM Pressure: (kPa)	101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40-N	102259	2023/4/18	2024/4/17
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Minl-Clrcuits	Power Splitter	ZFRSC-183-S+	S F448201619	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	143458	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	2023/9/28	2024/9/27
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:

FCC§2.1046;§ 27.50(d)(4)

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	22.88	23.26	23.44	19.89	30
	RB1#3	22.88	23.26	23.45		
	RB1#5	22.89	23.26	23.50		
	RB3#0	22.92	23.32	23.54		
	RB3#3	22.93	23.31	23.52		
	RB6#0	21.91	22.32	22.60		
1.4MHz 16QAM	RB1#0	21.94	22.34	22.71	19.08	30
	RB1#3	21.95	22.36	22.70		
	RB1#5	21.97	22.35	22.73		
	RB3#0	21.97	22.44	22.52		
	RB3#3	21.97	22.46	22.51		
	RB6#0	20.87	21.32	21.63		
3MHz QPSK	RB1#0	22.83	23.34	23.44	19.86	30
	RB1#8	22.83	23.30	23.51		
	RB1#14	22.90	23.26	23.50		
	RB6#0	21.89	22.36	22.61		
	RB6#9	21.92	22.30	22.60		
	RB15#0	21.90	22.29	22.59		
3MHz 16QAM	RB1#0	21.95	22.90	22.70	19.25	30
	RB1#8	21.93	22.85	22.70		
	RB1#14	21.96	22.78	22.73		
	RB6#0	20.87	21.43	21.60		
	RB6#9	20.84	21.37	21.60		
	RB15#0	20.94	21.39	21.53		
5MHz QPSK	RB1#0	22.92	23.49	23.43	**19.94**	30
	RB1#13	22.96	23.54	23.50		
	RB1#24	22.95	23.48	23.59		
	RB15#0	21.93	22.44	22.55		
	RB15#10	21.90	22.29	22.53		
	RB25#0	21.93	22.31	22.53		
5MHz 16QAM	RB1#0	21.98	22.25	22.76	19.23	30
	RB1#13	21.97	22.24	22.82		
	RB1#24	21.97	22.20	22.88		
	RB15#0	20.94	21.45	21.56		
	RB15#10	20.91	21.31	21.53		
	RB25#0	20.94	21.39	21.56		
10MHz QPSK	RB1#0	22.89	23.35	23.40	19.85	30

	RB1#25	22.95	23.38	23.45		
	RB1#49	22.97	23.30	23.50		
	RB25#0	21.90	22.40	22.52		
	RB25#25	22.03	22.32	22.51		
	RB50#0	22.00	22.39	22.57		
10MHz 16QAM	RB1#0	21.92	22.89	22.61		
	RB1#25	21.99	22.91	22.64		
	RB1#49	22.02	22.83	22.67	**19.26**	30
	RB25#0	21.03	21.42	21.57		
	RB25#25	21.11	21.40	21.52		
	RB50#0	20.99	21.40	21.53		
15MHz QPSK	RB1#0	22.83	23.26	23.25		
	RB1#38	22.90	23.34	23.40		
	RB1#74	23.00	23.23	23.43	19.78	30
	RB36#0	21.91	22.28	22.33		
	RB36#39	22.06	22.30	22.38		
	RB75#0	22.01	22.35	22.37		
15MHz 16QAM	RB1#0	22.26	22.83	22.46		
	RB1#38	22.41	22.88	22.61		
	RB1#74	22.44	22.76	22.62	19.23	30
	RB36#0	20.84	21.34	21.39		
	RB36#39	20.98	21.30	21.42		
	RB75#0	20.94	21.32	21.39		
20MHz QPSK	RB1#0	22.83	23.30	23.20		
	RB1#50	22.99	23.33	23.36		
	RB1#99	23.01	23.12	23.40	19.75	30
	RB50#0	21.99	22.38	22.35		
	RB50#50	22.07	22.30	22.31		
	RB100#0	22.00	22.33	22.32		
20MHz 16QAM	RB1#0	22.45	22.57	22.46		
	RB1#50	22.63	22.69	22.61		
	RB1#99	22.68	22.47	22.63	19.04	30
	RB50#0	20.94	21.36	21.32		
	RB50#50	21.08	21.28	21.32		
	RB100#0	21.01	21.34	21.32		
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	4.09	4.55	4.26	13
	RB100#0	5.01	5.10	4.96	13
20MHz 16QAM	RB1#0	5.10	5.33	5.13	13
	RB100#0	5.97	6.06	5.94	13
				Result:	**Pass**

FCC §2.1049, §27.53:Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
1.4MHz QPSK	1.096	1.102	1.102	1.308	1.320	1.284
1.4MHz 16QAM	1.096	1.090	1.096	1.320	1.290	1.296
3MHz QPSK	2.683	2.695	2.683	2.904	2.892	2.916
3MHz 16QAM	2.683	2.683	2.683	2.904	2.916	2.892
5MHz QPSK	4.511	4.511	4.511	5.000	5.000	4.980
5MHz 16QAM	4.511	4.511	4.511	4.940	4.980	5.020
10MHz QPSK	8.942	8.942	8.982	9.720	9.600	9.680
10MHz 16QAM	8.942	8.942	8.982	9.560	9.640	9.640
15MHz QPSK	13.473	13.473	13.533	14.640	14.760	14.820
15MHz 16QAM	13.473	13.533	13.533	14.700	14.760	14.640
20MHz QPSK	17.884	17.884	17.964	19.360	19.360	19.200
20MHz 16QAM	17.884	17.964	17.884	19.200	19.200	19.360
Note: The test plots please refer to the Plots of Occupied Bandwidth						

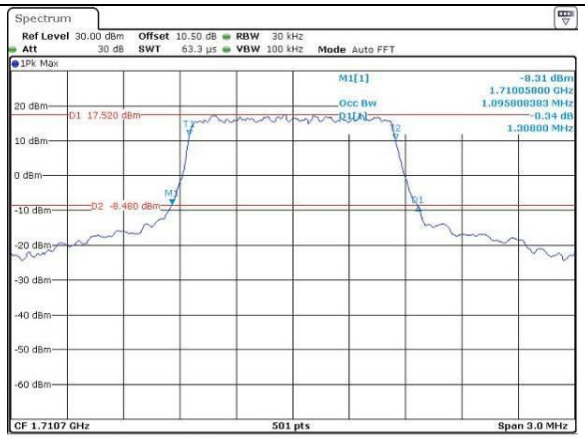
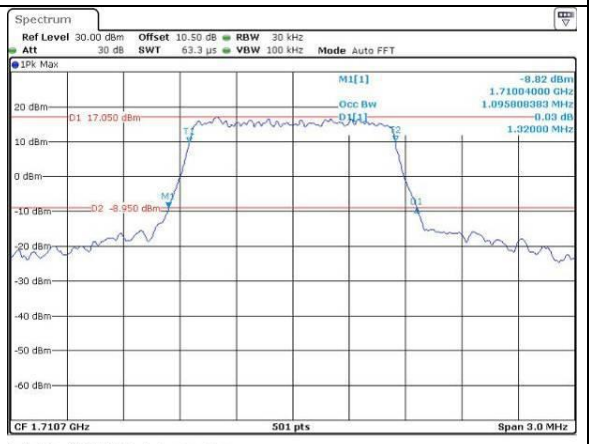
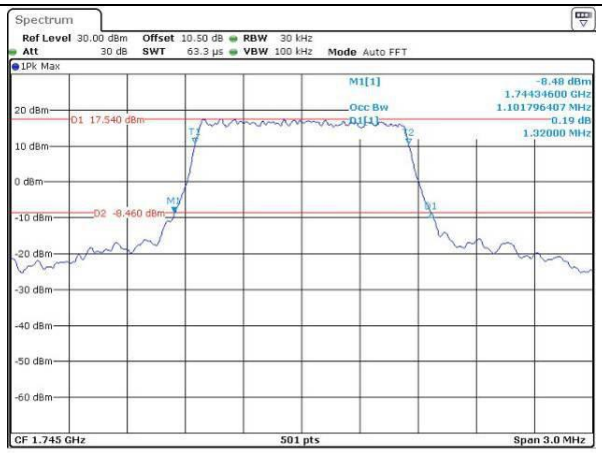
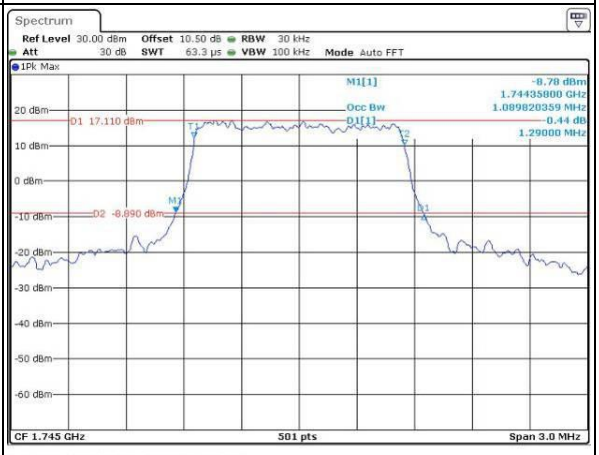
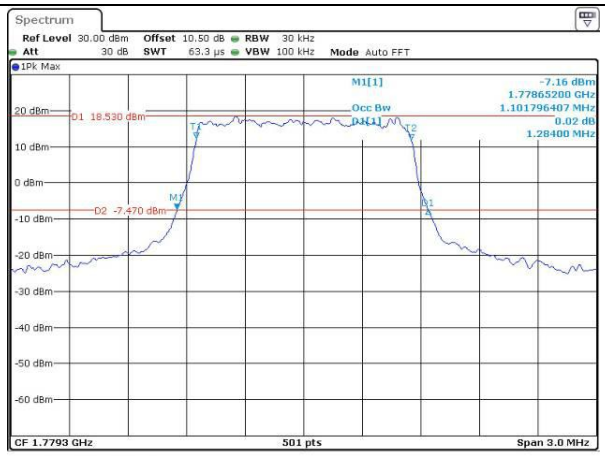
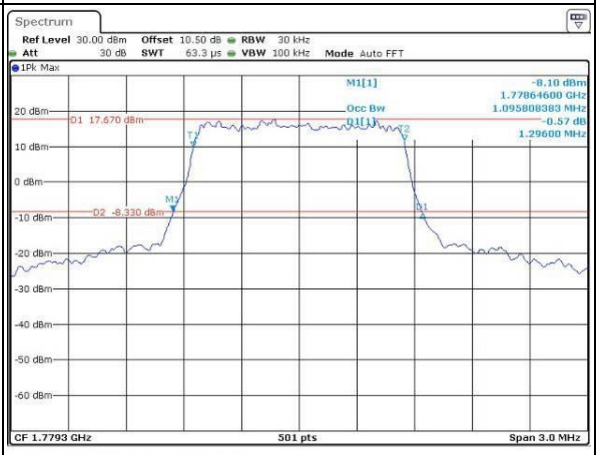
FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

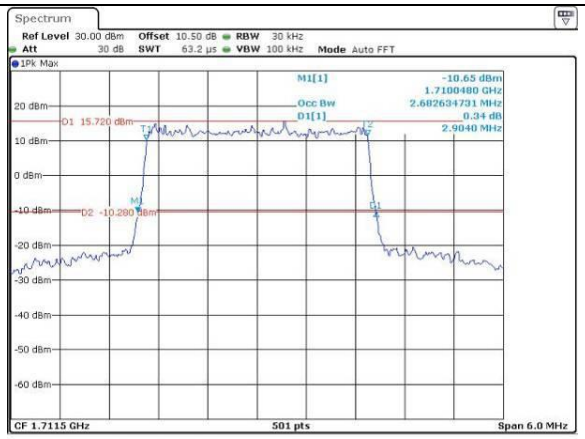
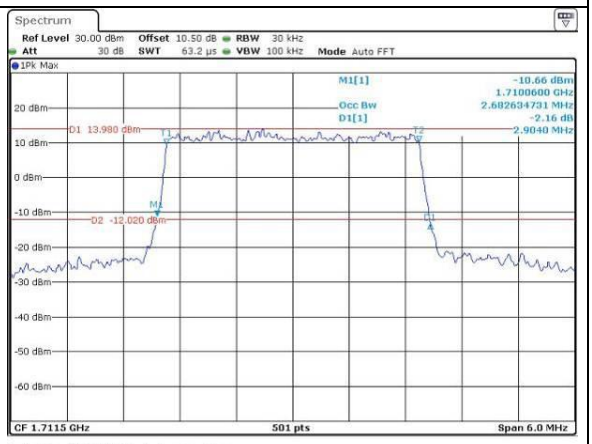
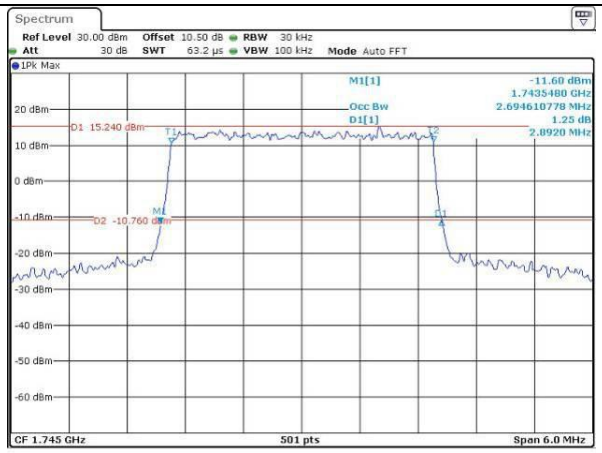
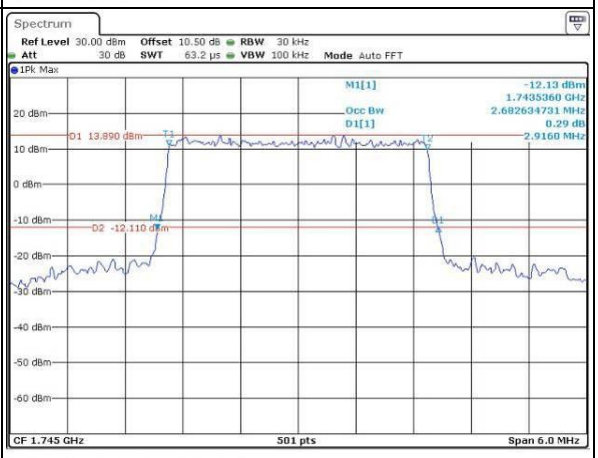
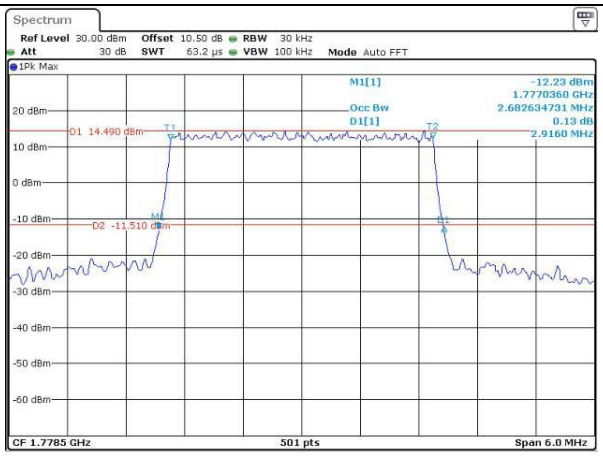
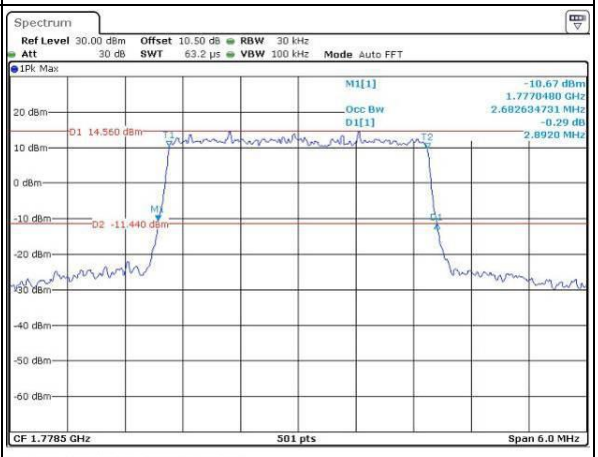
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

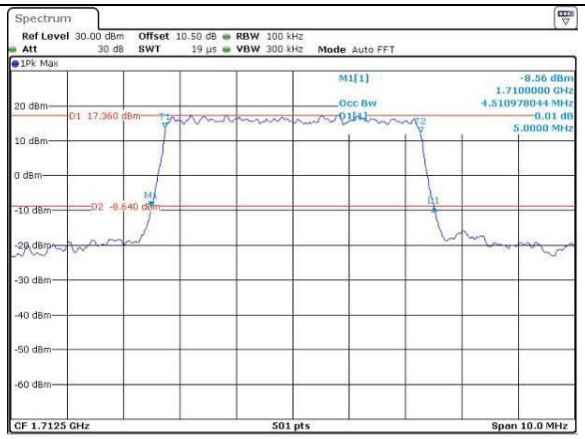
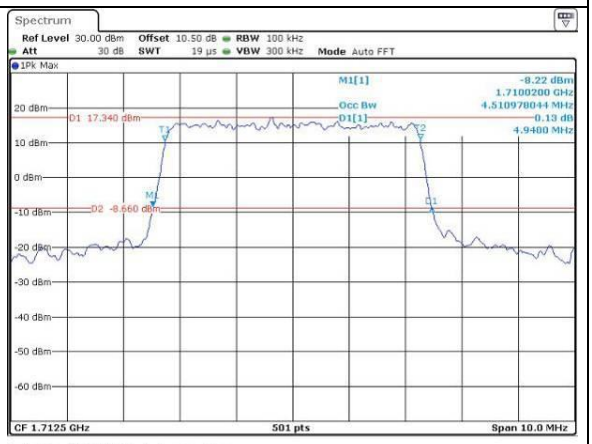
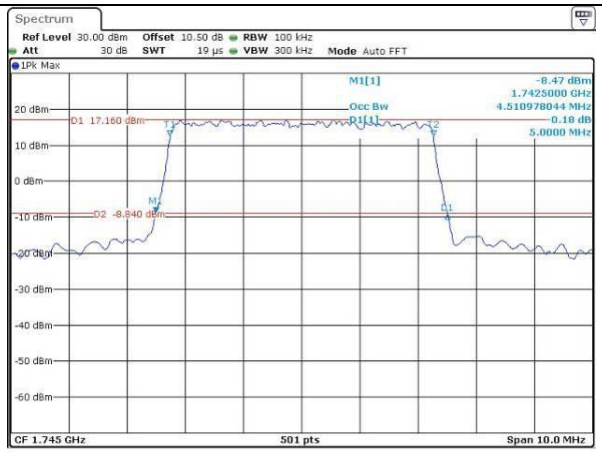
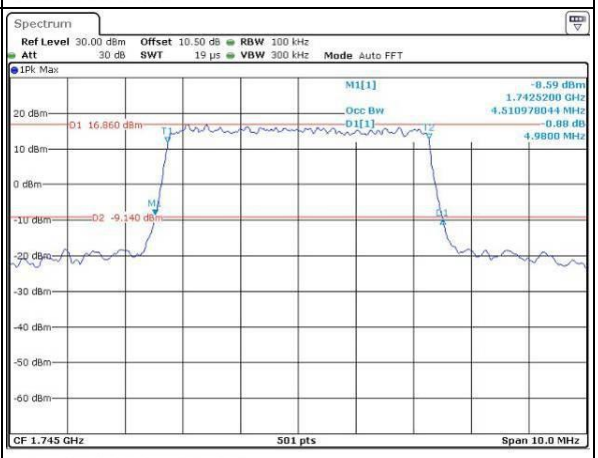
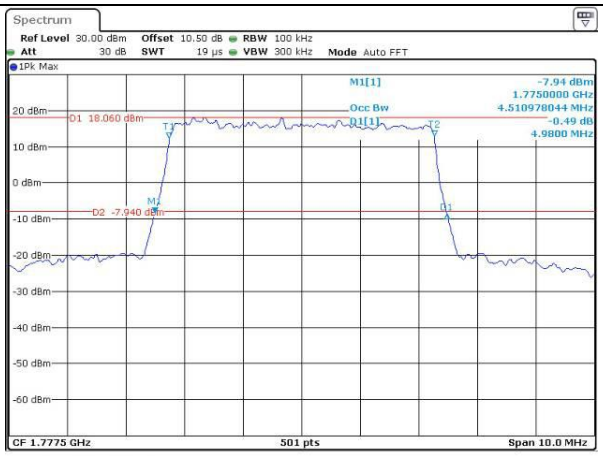
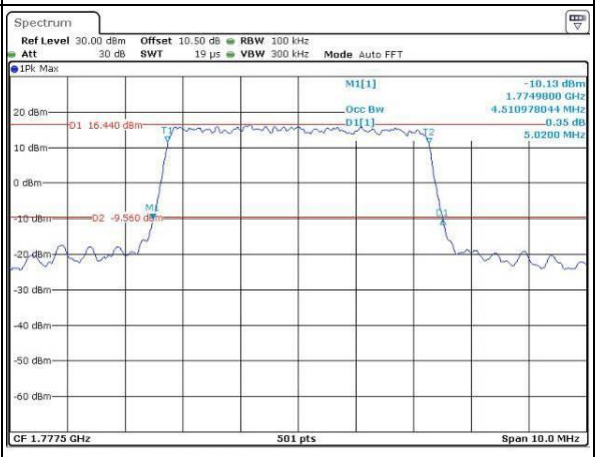
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.149	1710.00	1779.808	1780
	-20	3.91	1710.051	1710.00	1779.838	1780
	-10	3.91	1710.138	1710.00	1779.959	1780
	0	3.91	1710.095	1710.00	1779.863	1780
	10	3.91	1710.053	1710.00	1779.846	1780
	20	3.91	1710.129	1710.00	1779.974	1780
	30	3.91	1710.055	1710.00	1779.806	1780
	40	3.91	1710.102	1710.00	1779.941	1780
	50	3.91	1710.085	1710.00	1779.853	1780
Frequency Stability vs. Voltage	20	3.45	1710.091	1710.00	1779.911	1780
	20	4.5	1710.020	1710.00	1779.870	1780
					Result:	**Pass**

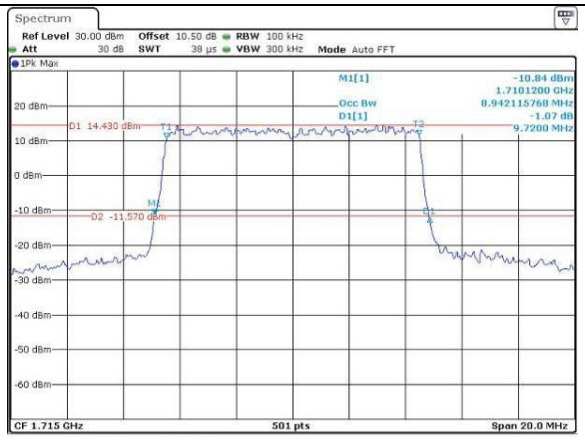
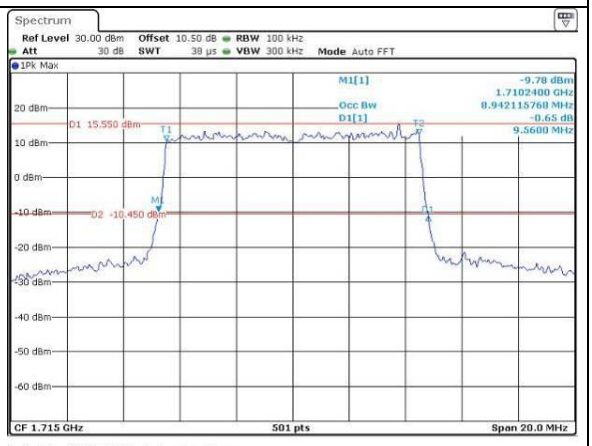
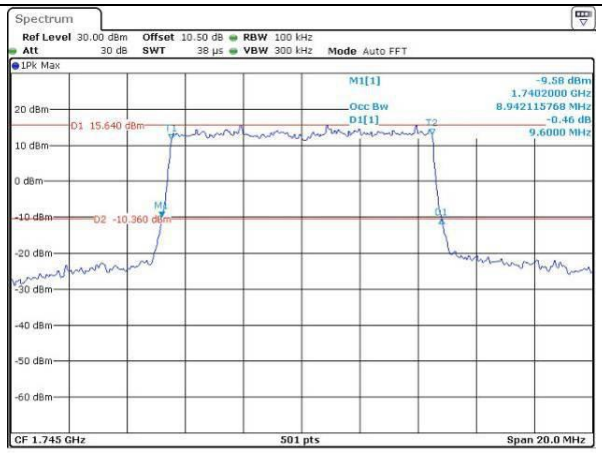
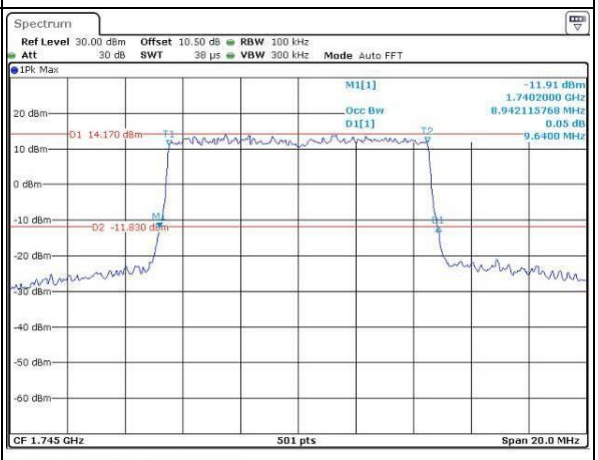
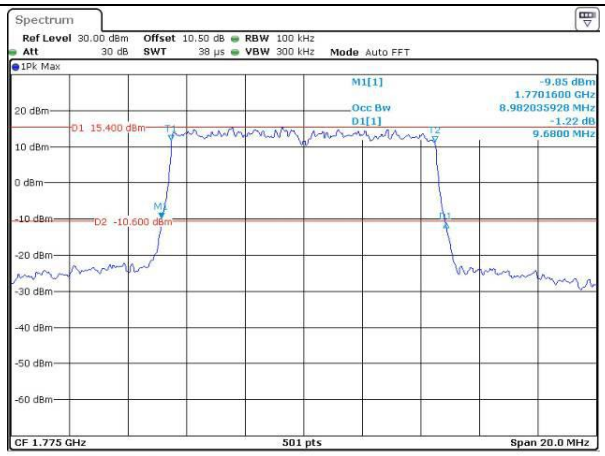
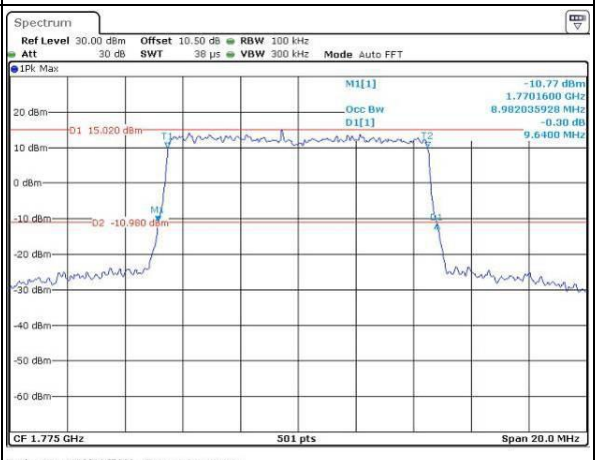
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.91	1710.035	1710.00	1779.969	1780
	-20	3.91	1710.083	1710.00	1779.915	1780
	-10	3.91	1710.193	1710.00	1779.882	1780
	0	3.91	1710.065	1710.00	1779.990	1780
	10	3.91	1710.004	1710.00	1779.984	1780
	20	3.91	1710.114	1710.00	1779.896	1780
	30	3.91	1710.003	1710.00	1779.996	1780
	40	3.91	1710.152	1710.00	1779.905	1780
	50	3.91	1710.030	1710.00	1779.887	1780
Frequency Stability vs. Voltage	20	3.45	1710.046	1710.00	1779.893	1780
	20	4.5	1710.193	1710.00	1779.972	1780
					Result:	**Pass**

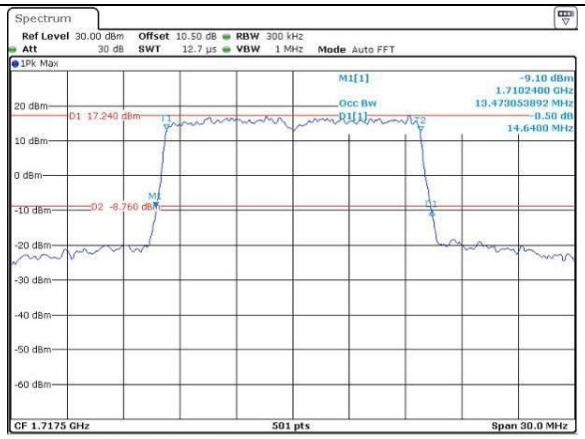
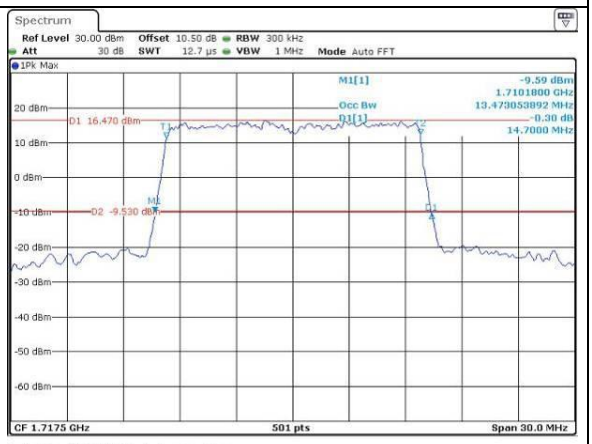
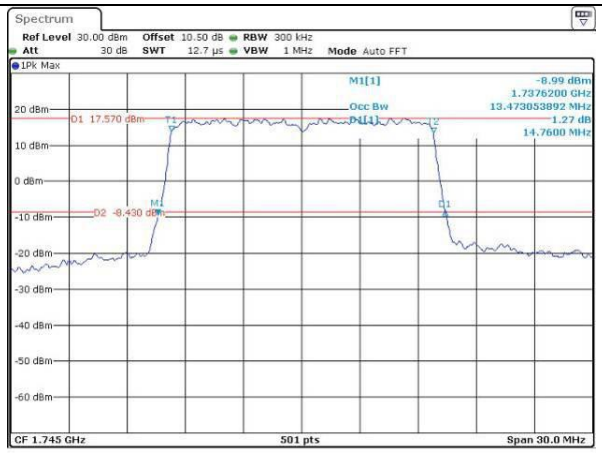
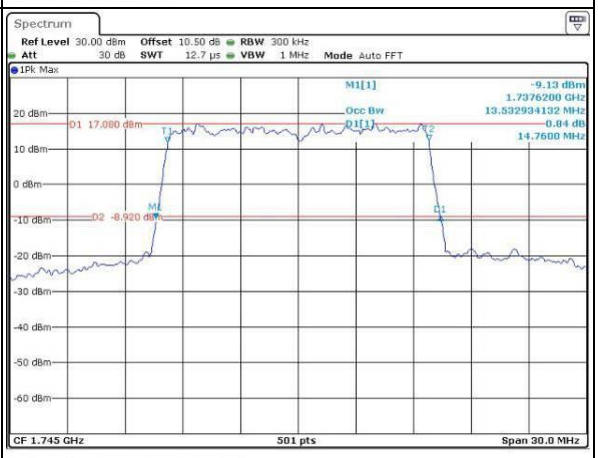
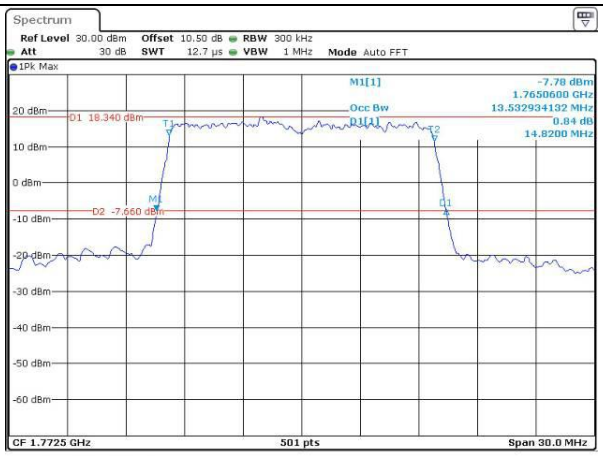
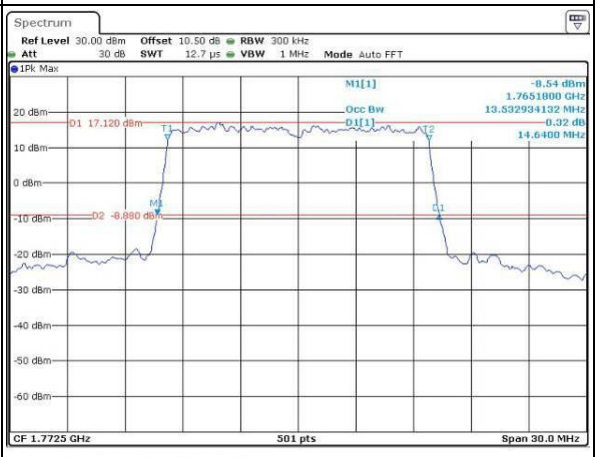
Test Plot: (Note: The 10.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

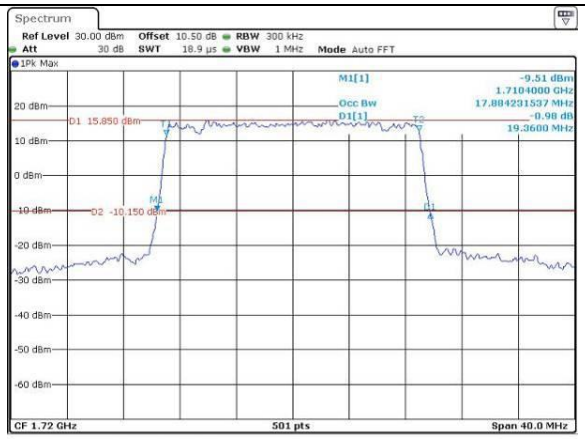
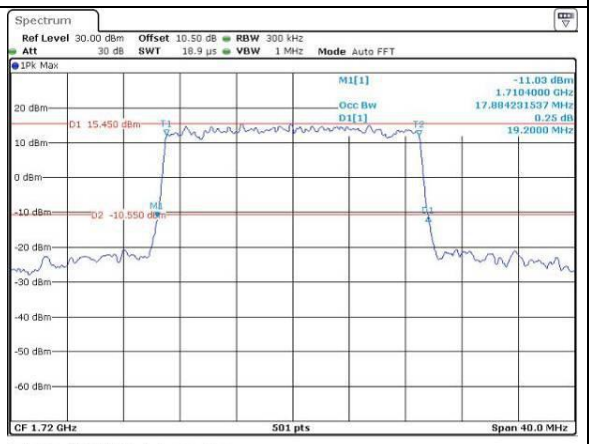
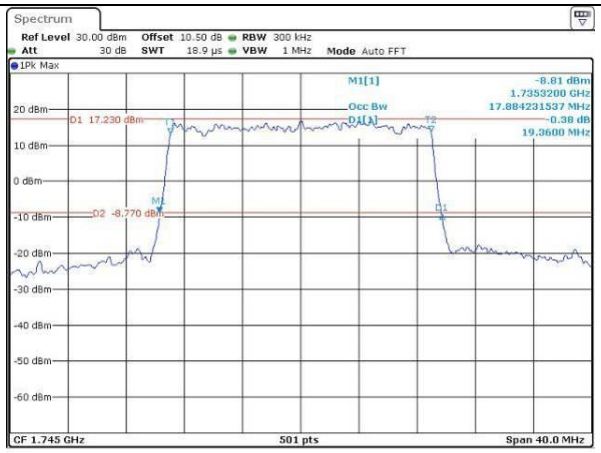
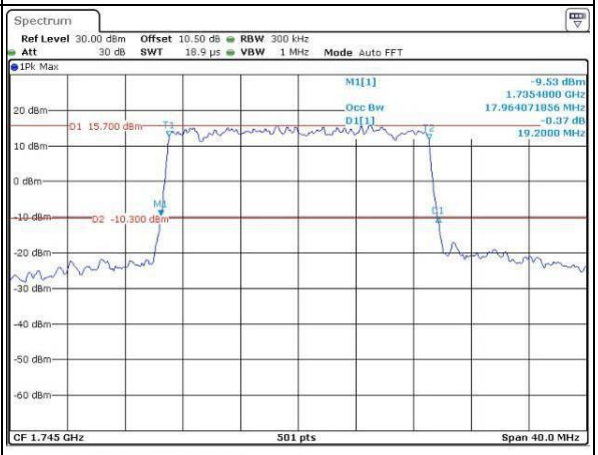
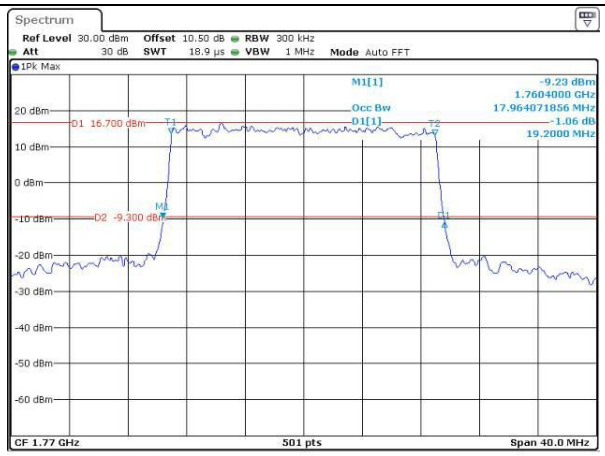
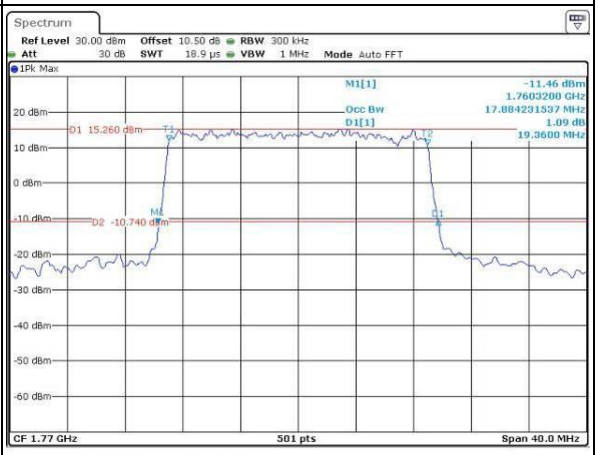
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

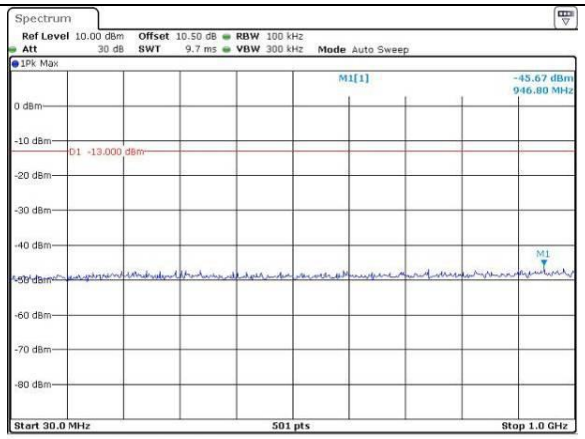
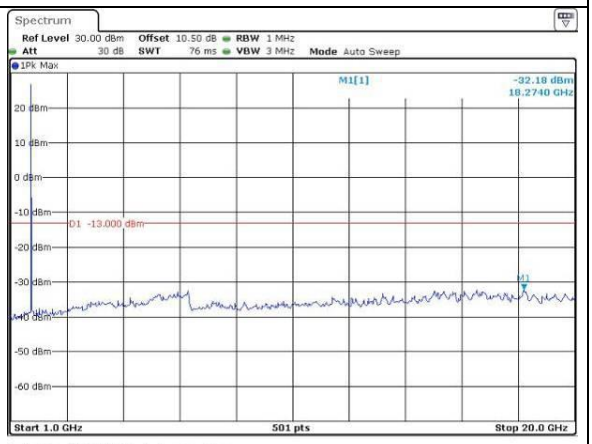
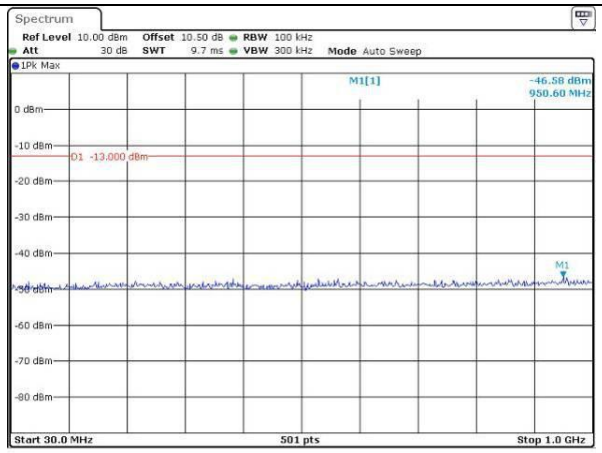
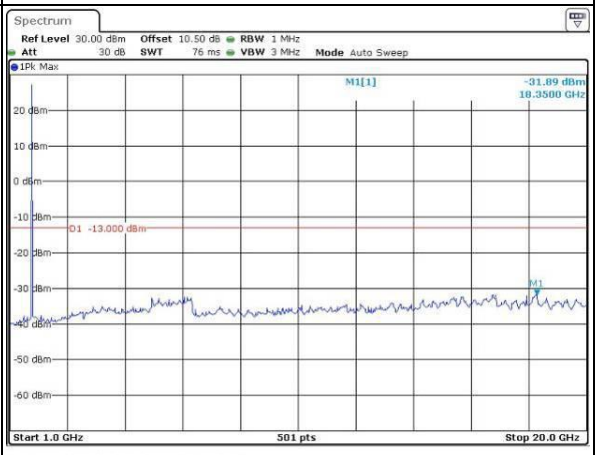
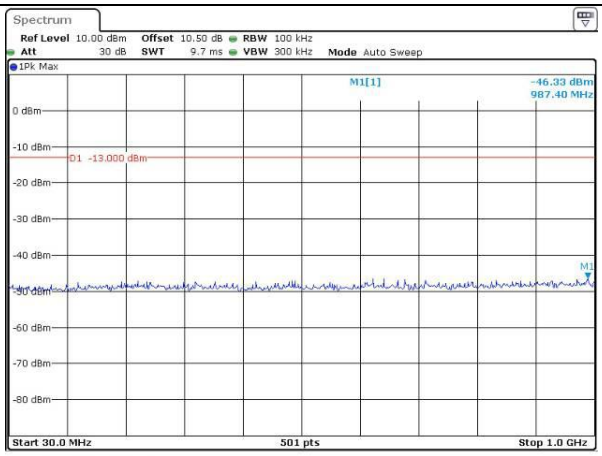
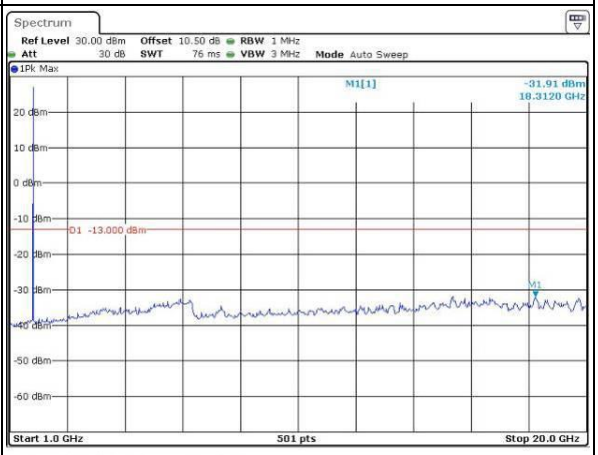
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

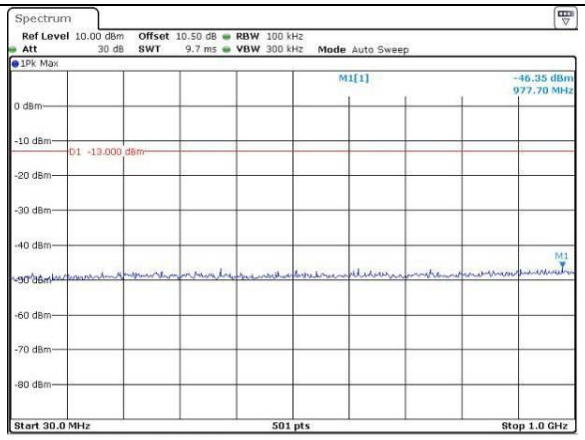
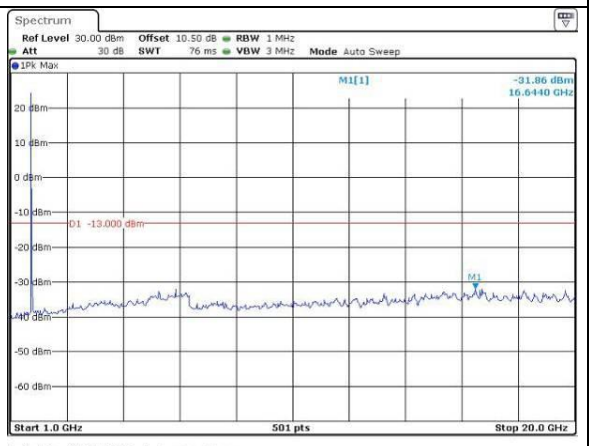
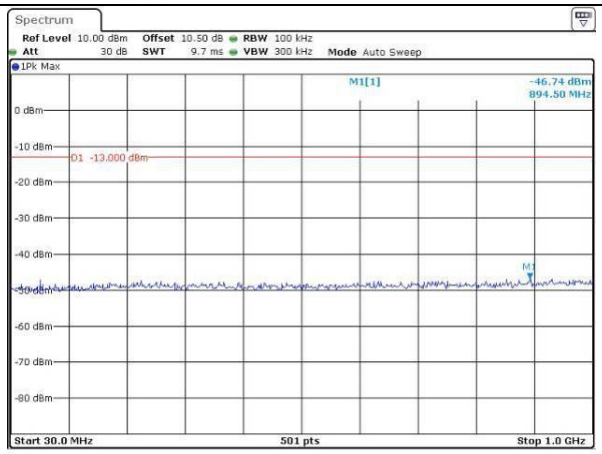
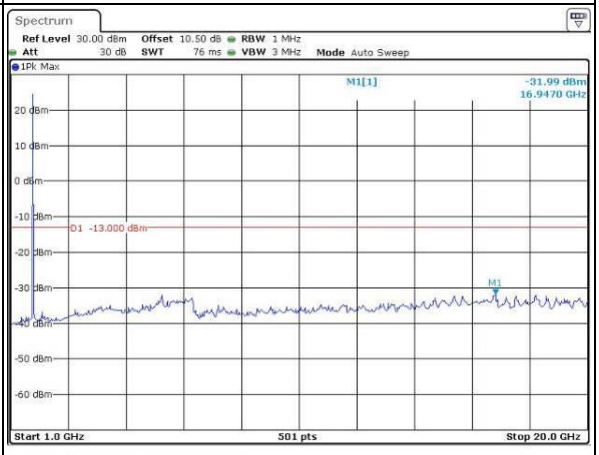
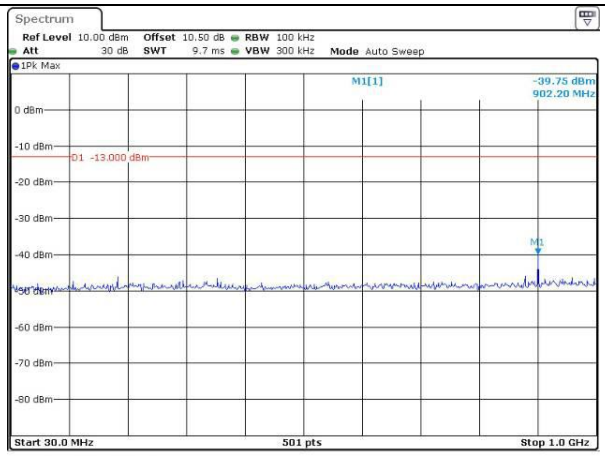
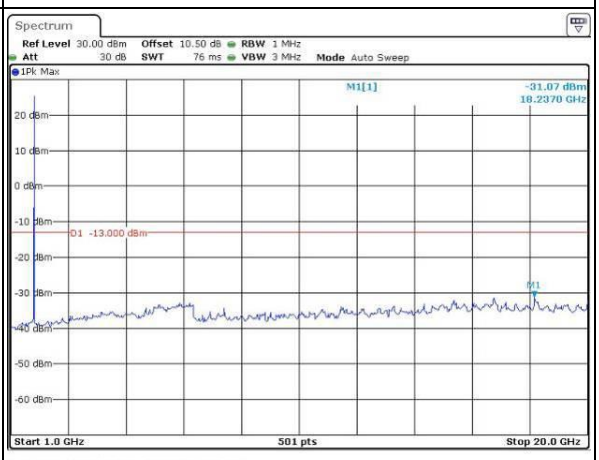
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

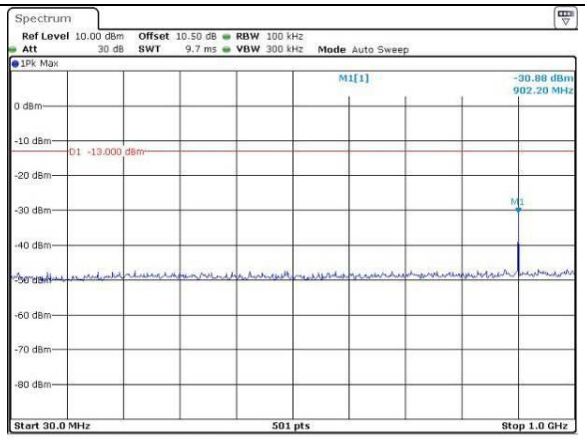
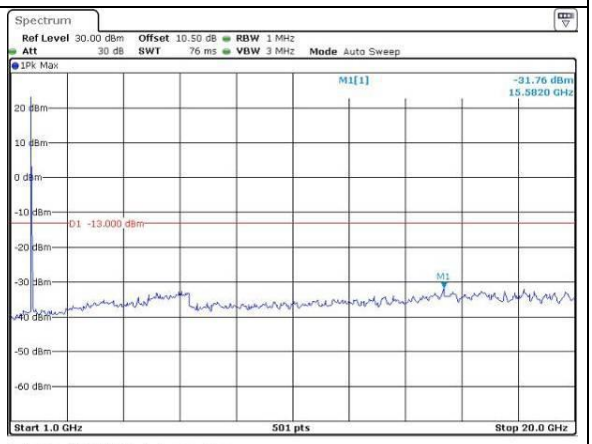
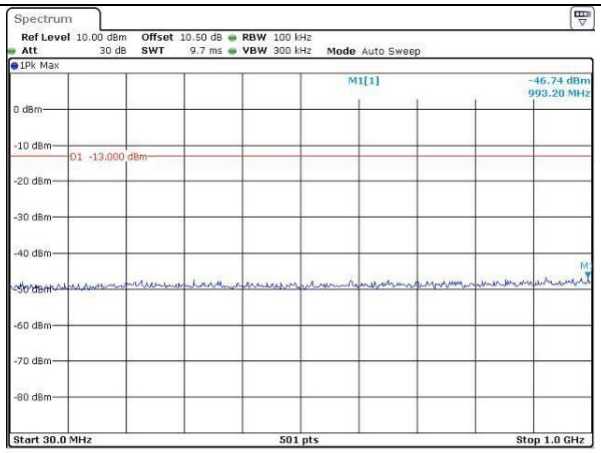
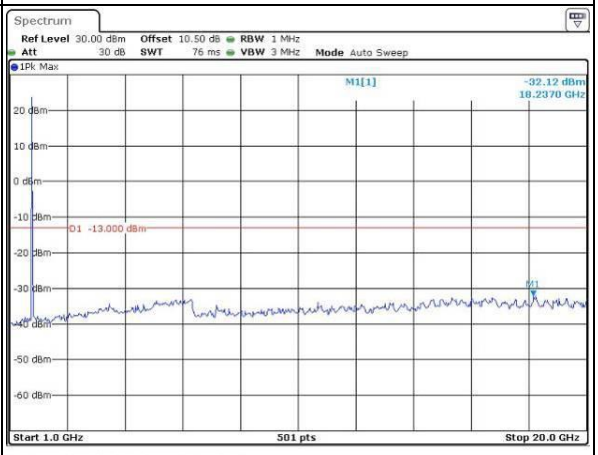
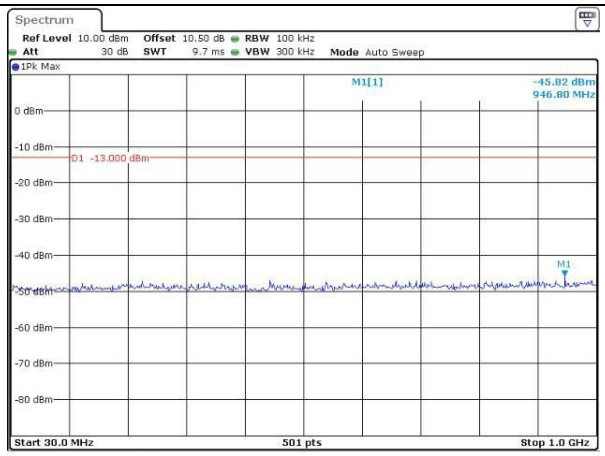
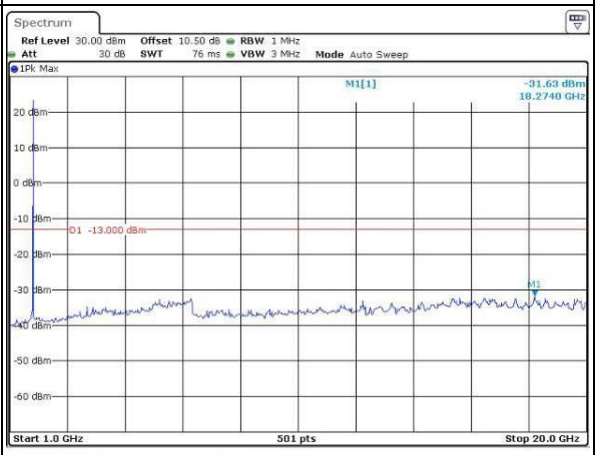
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

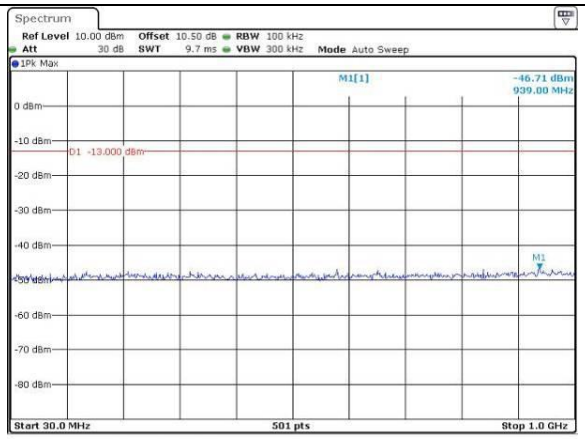
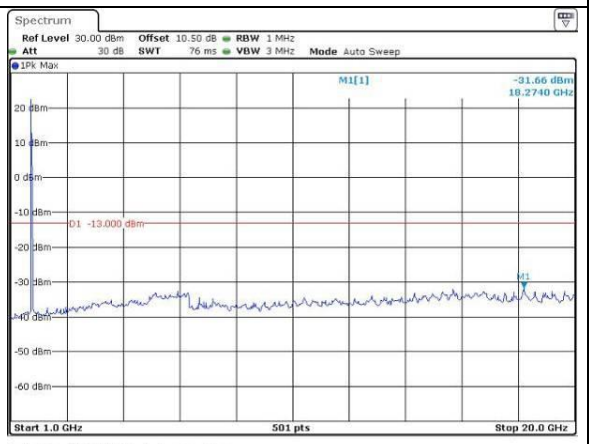
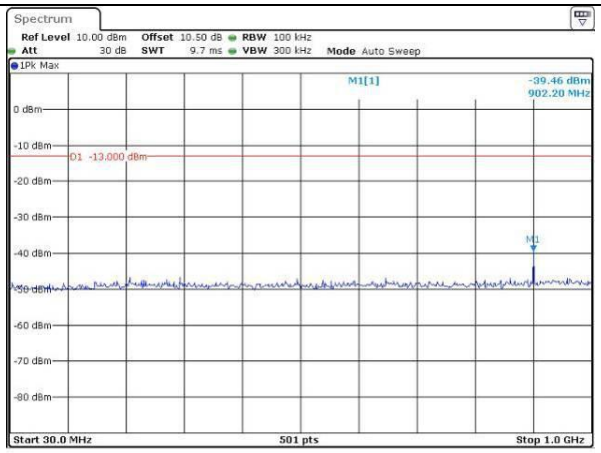
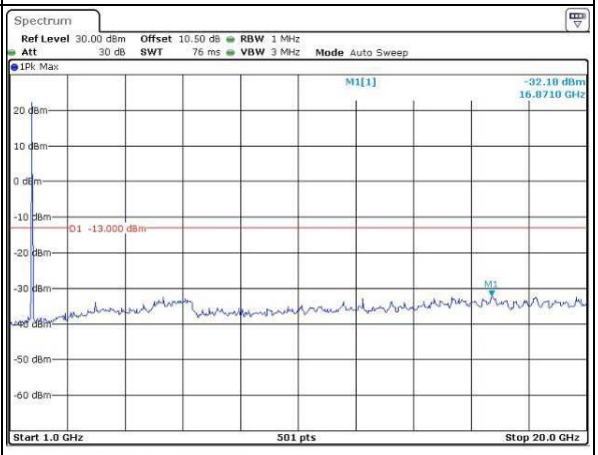
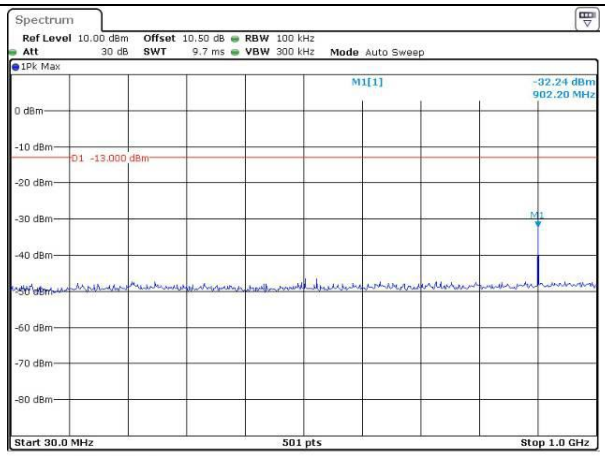
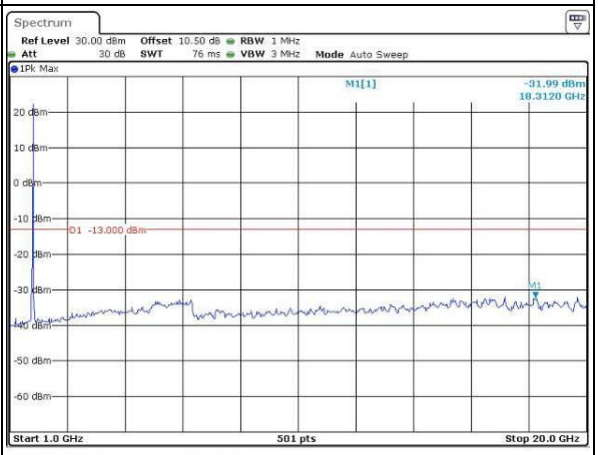
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

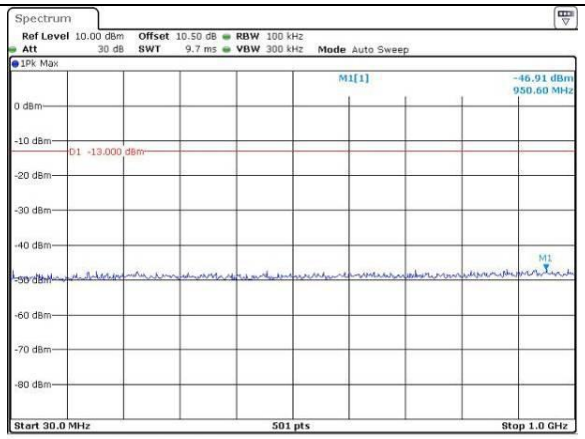
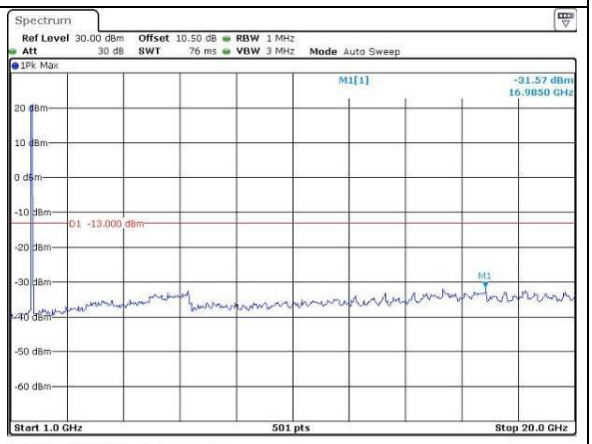
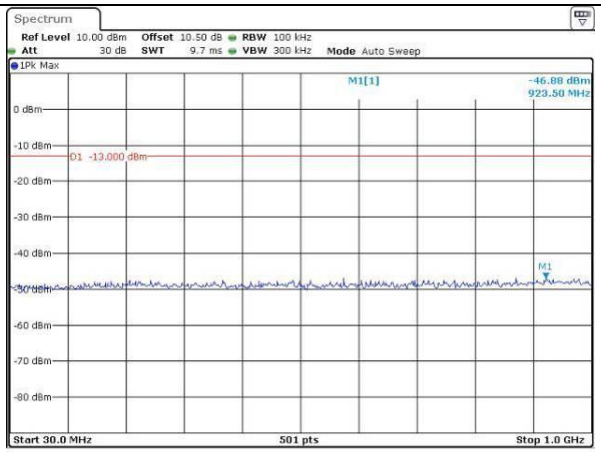
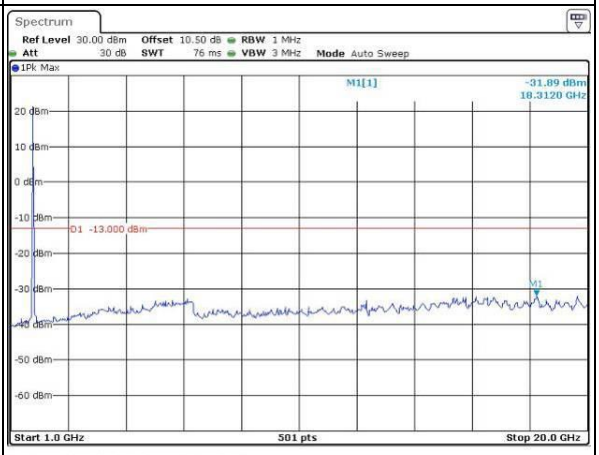
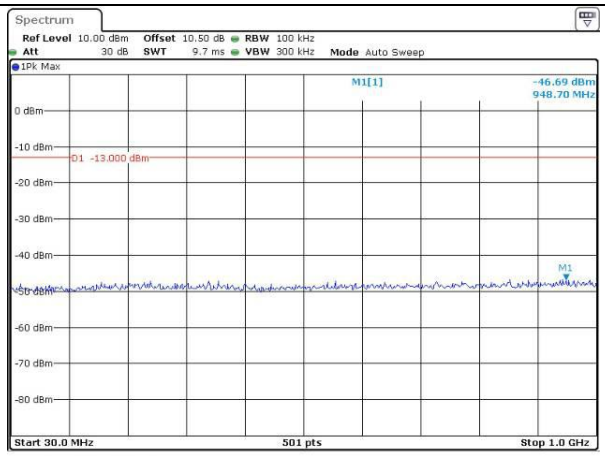
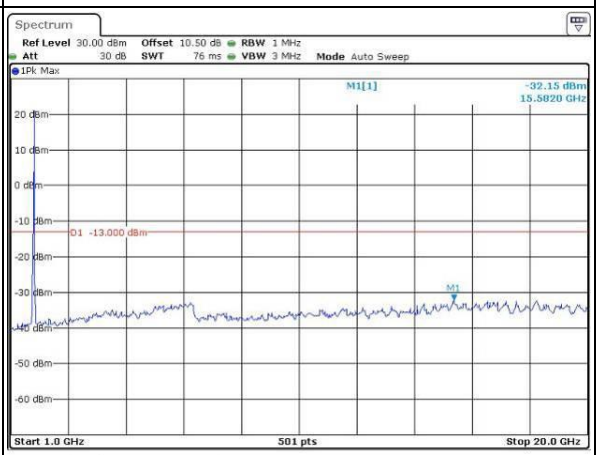
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

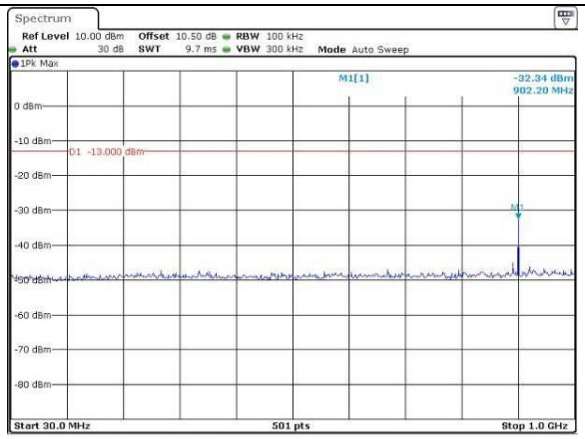
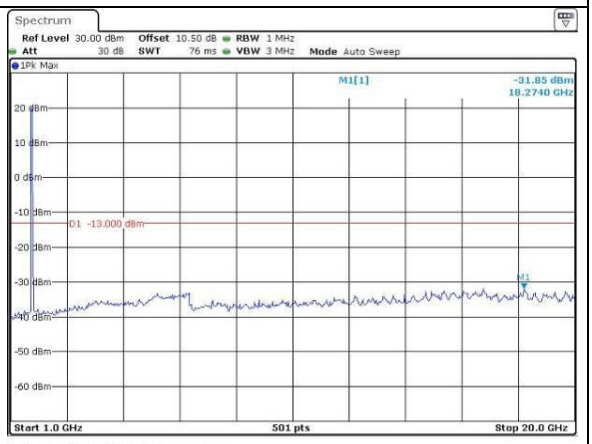
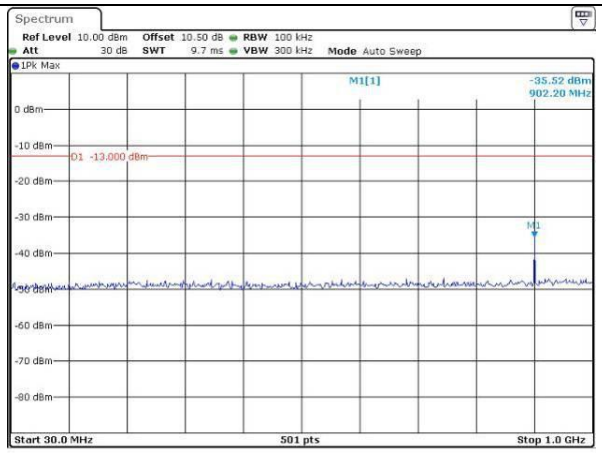
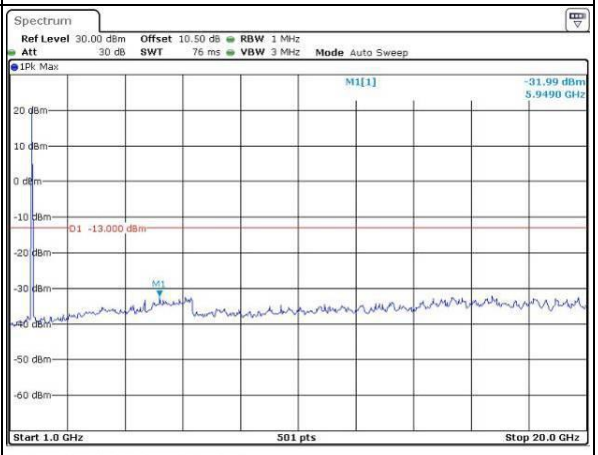
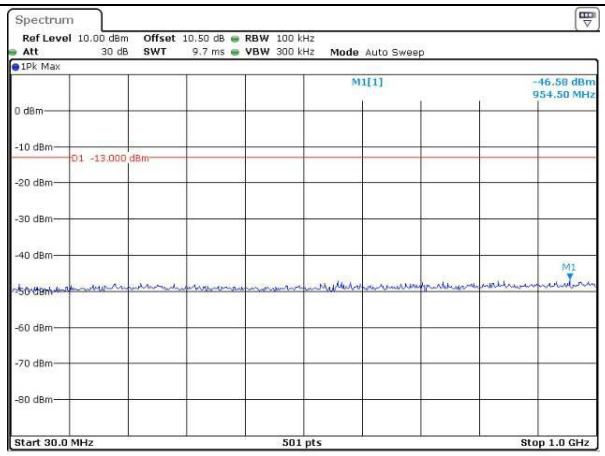
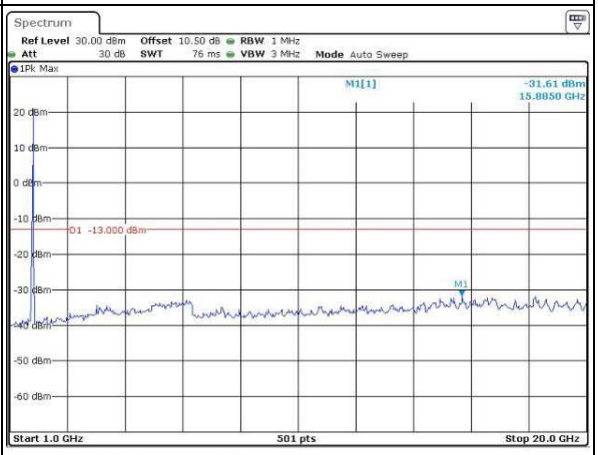
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

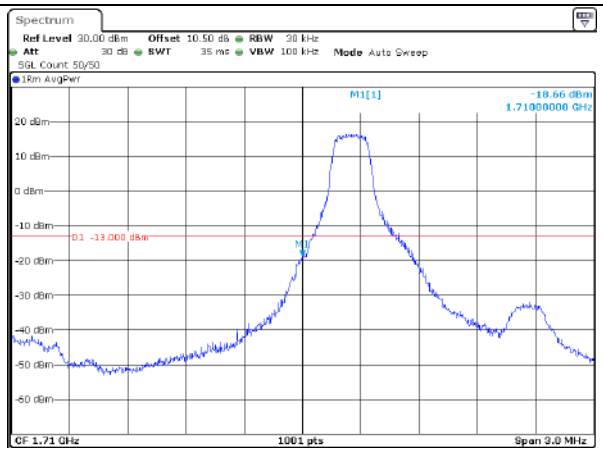
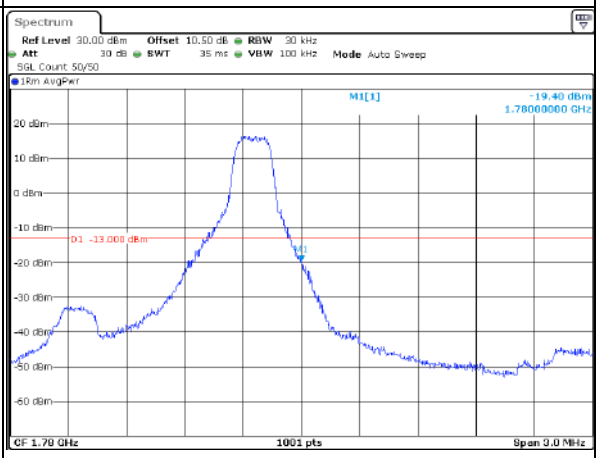
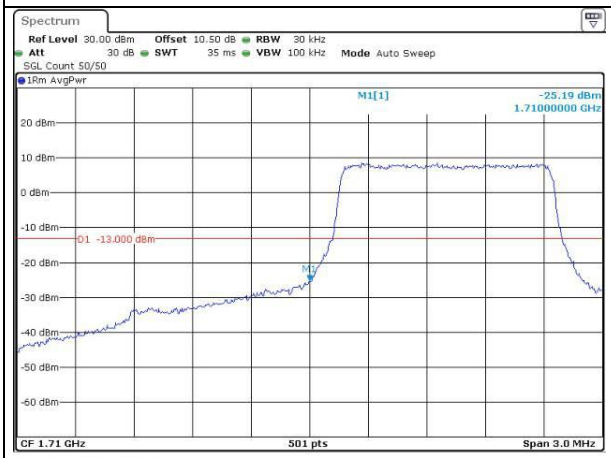
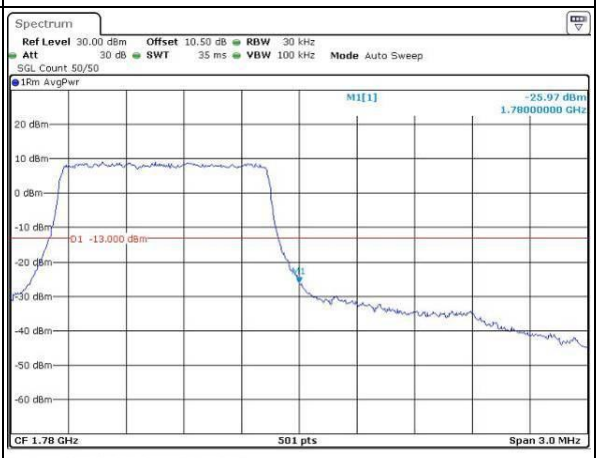
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

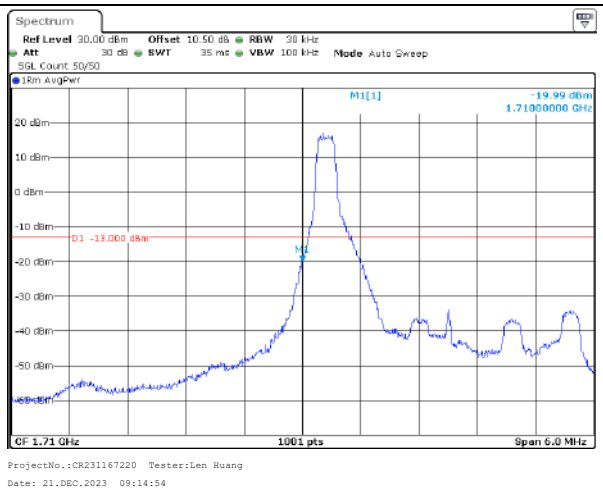
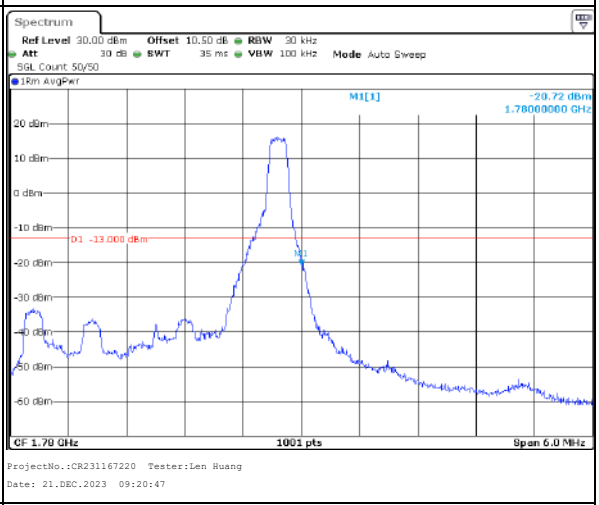
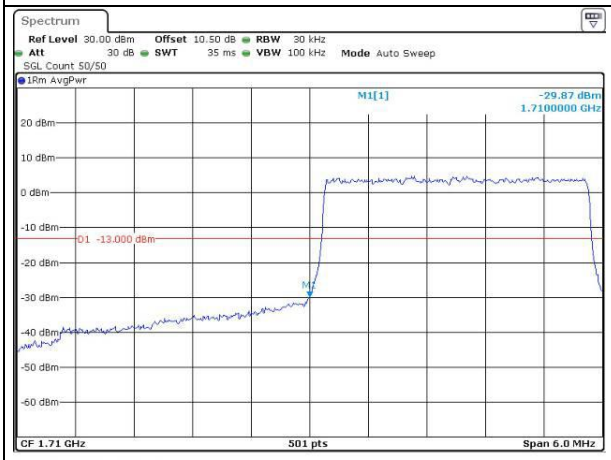
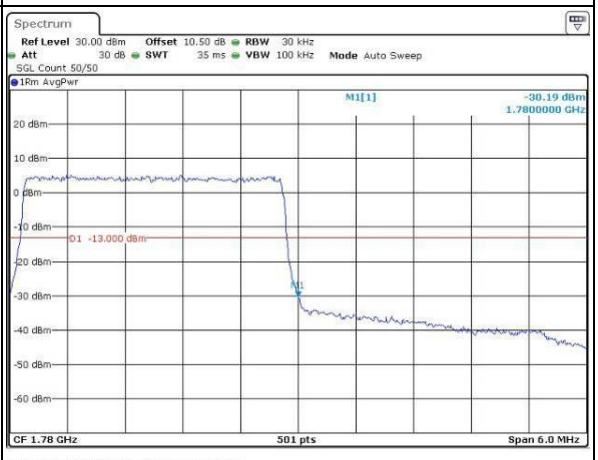
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

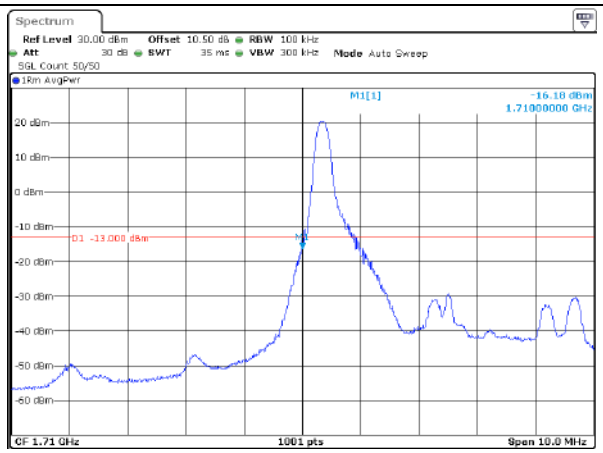
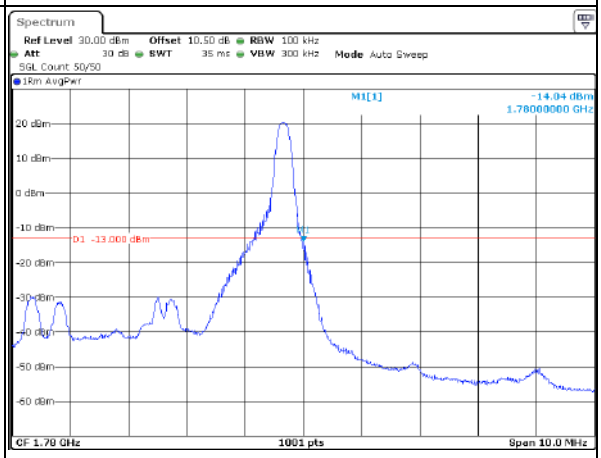
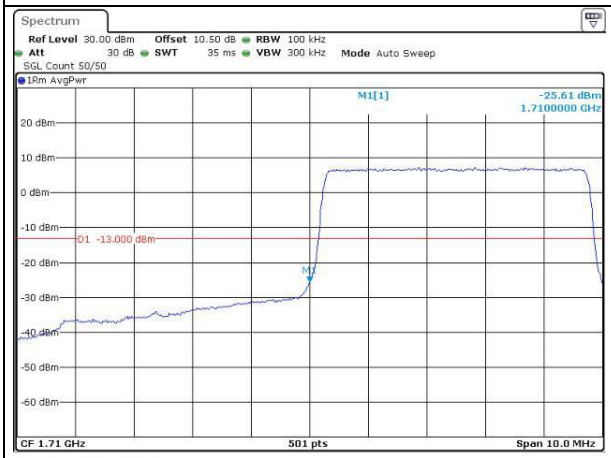
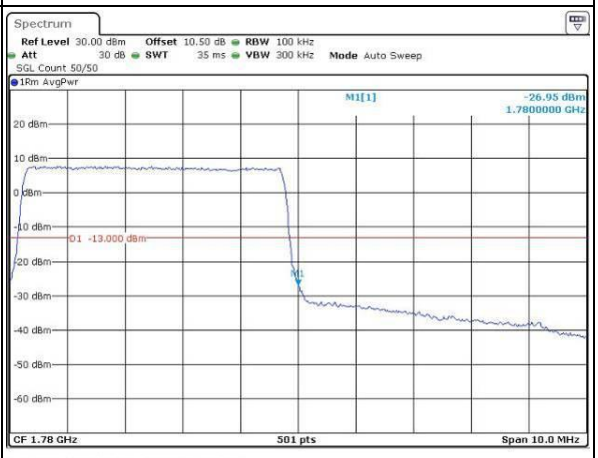
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

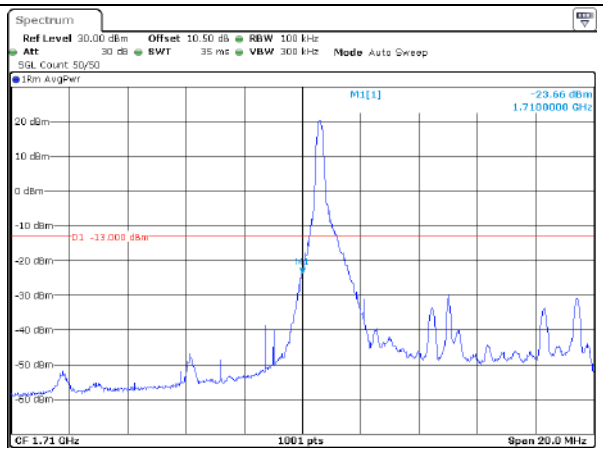
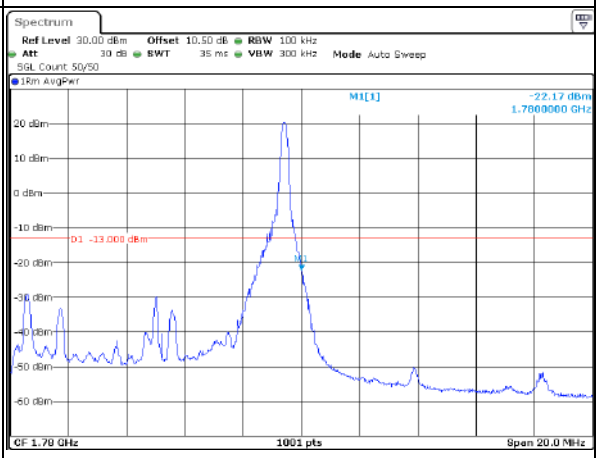
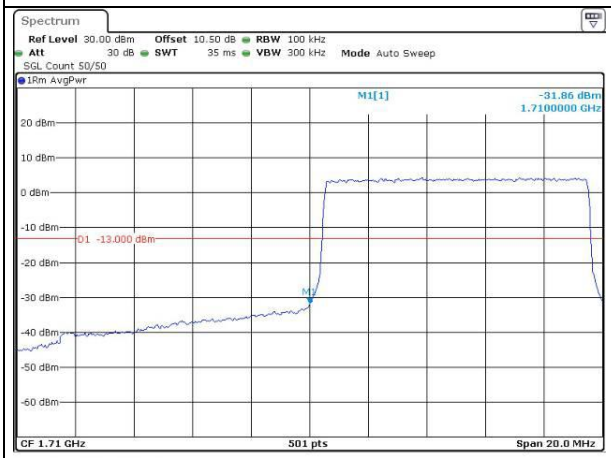
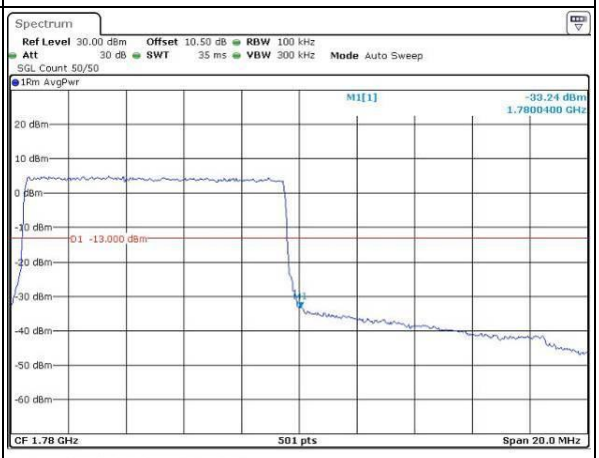
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

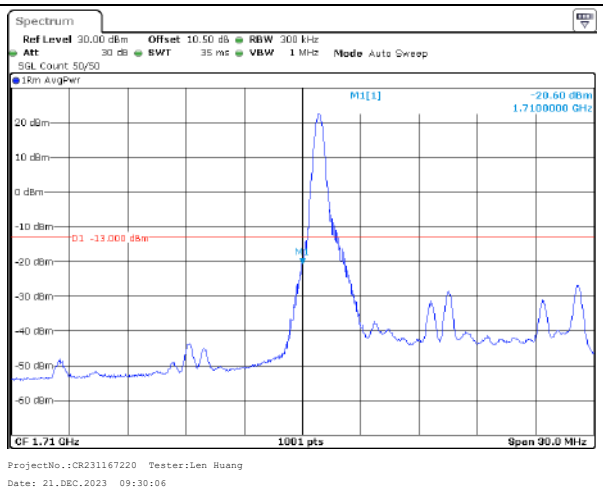
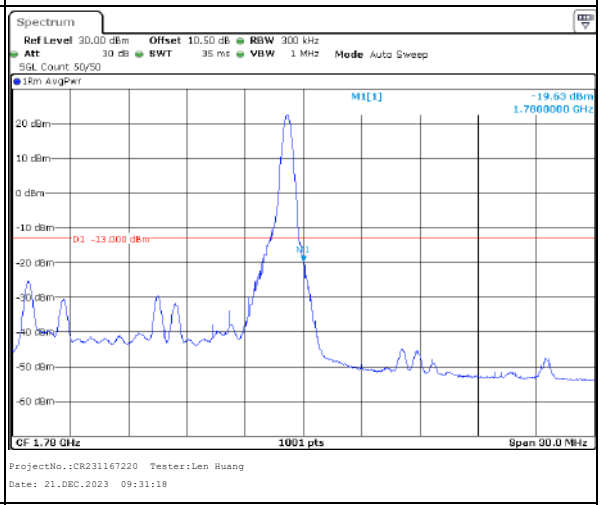
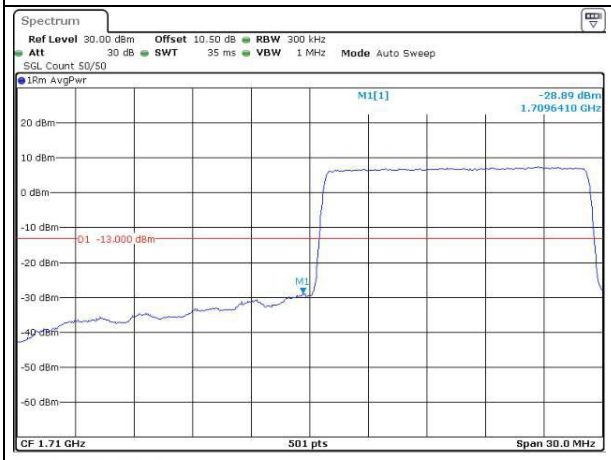
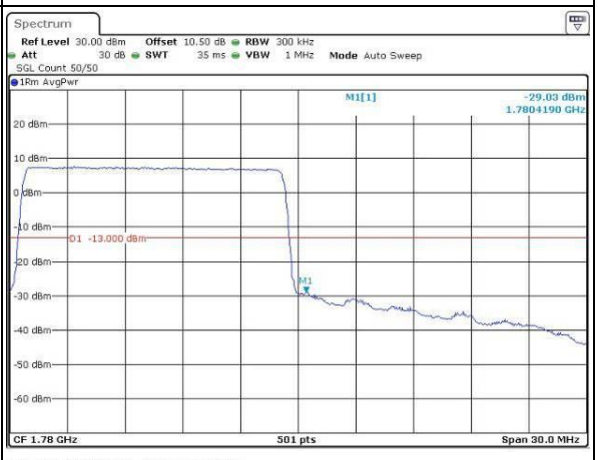
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

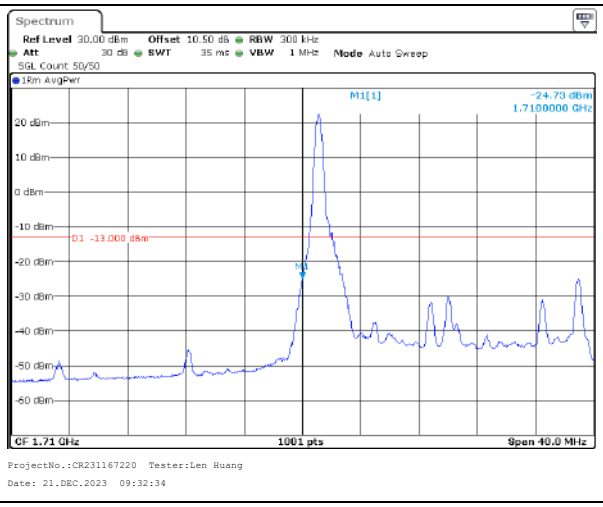
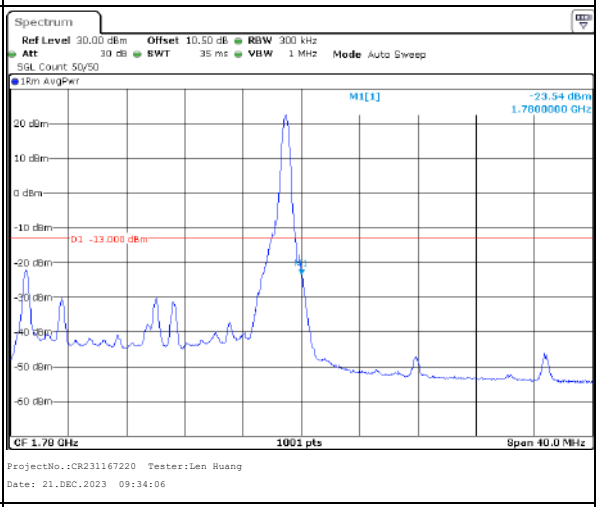
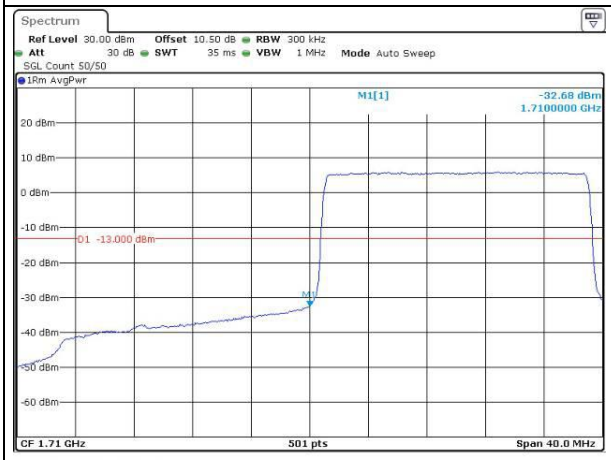
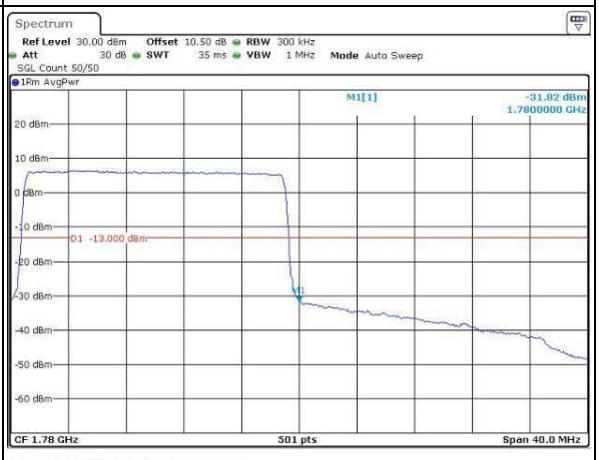
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 1.4MHz		
	Lowest/Full RB	**Highest/Full RB**
		

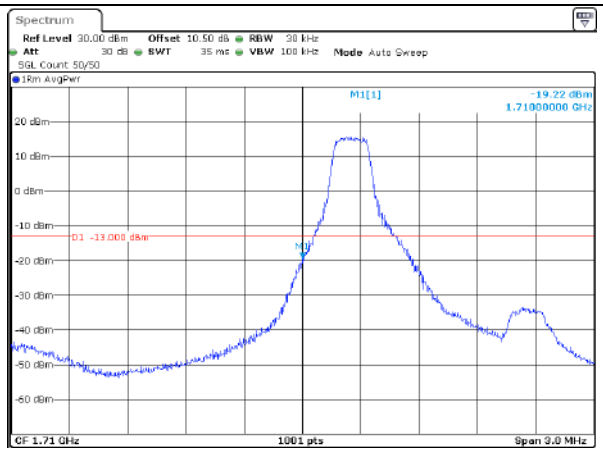
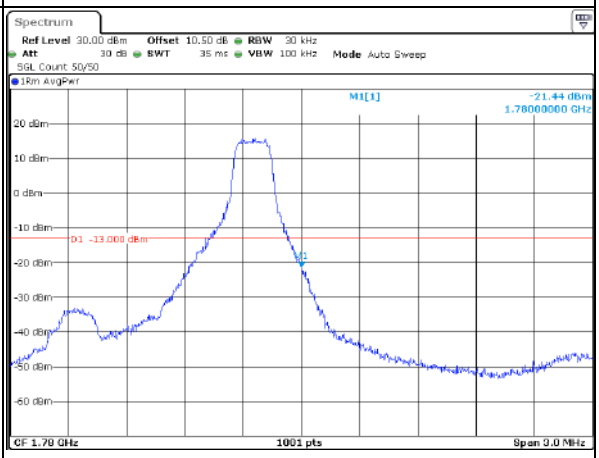
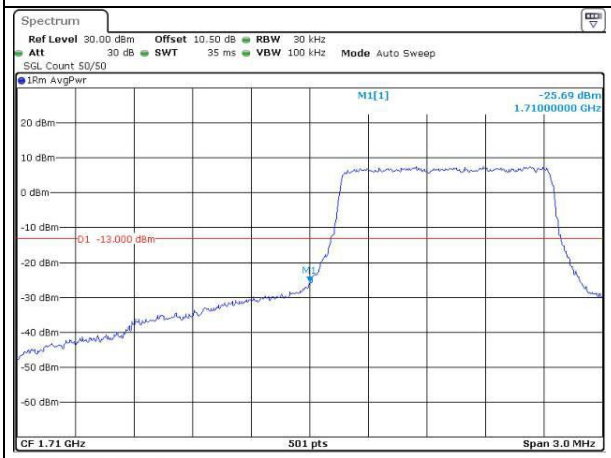
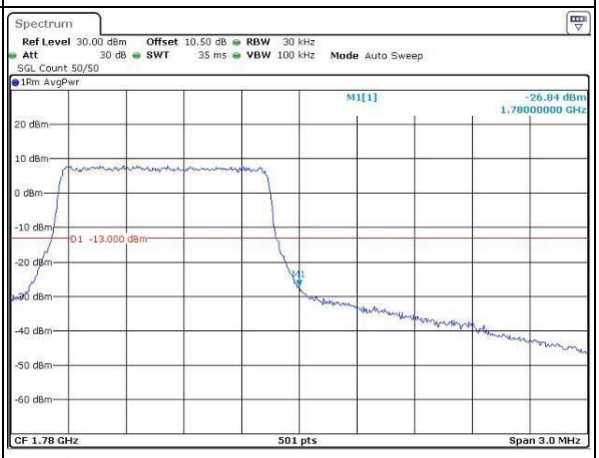
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 3MHz		
	Lowest/Full RB	**Highest/Full RB**
		

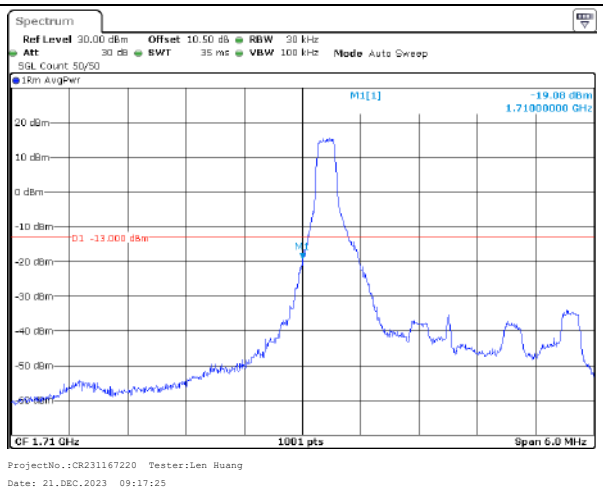
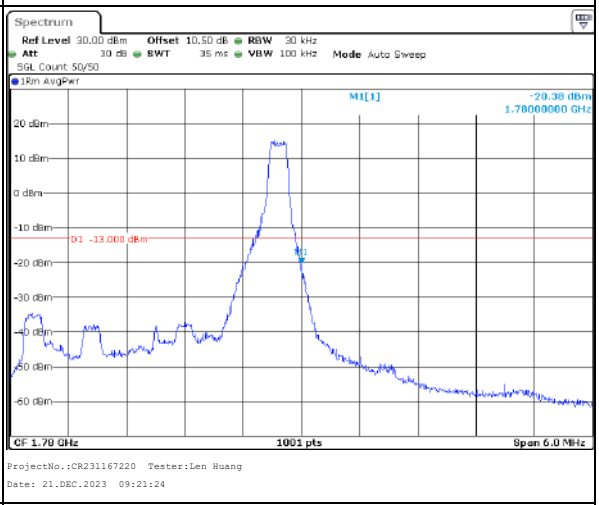
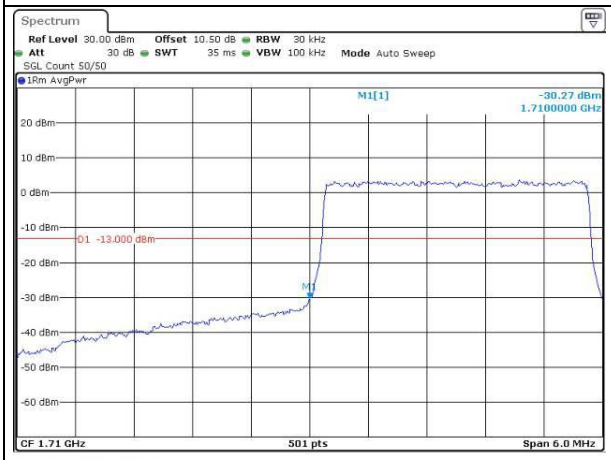
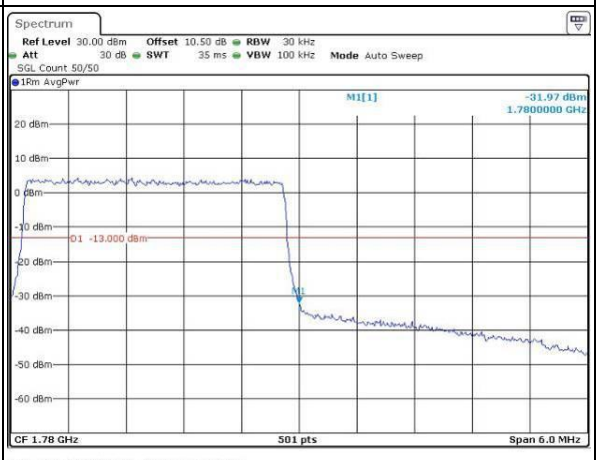
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 5MHz		
	Lowest/Full RB	**Highest/Full RB**
		

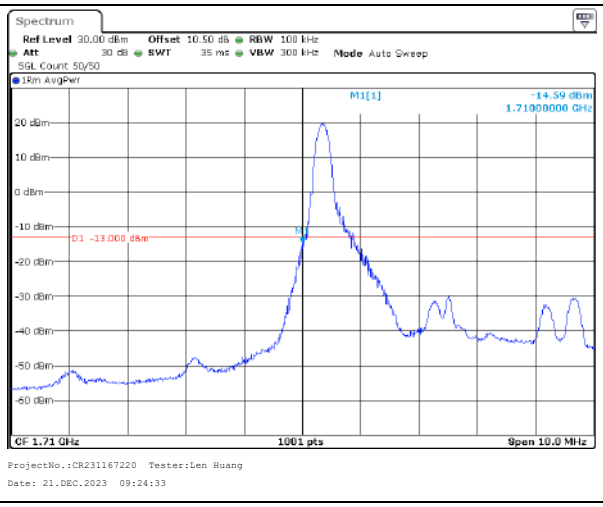
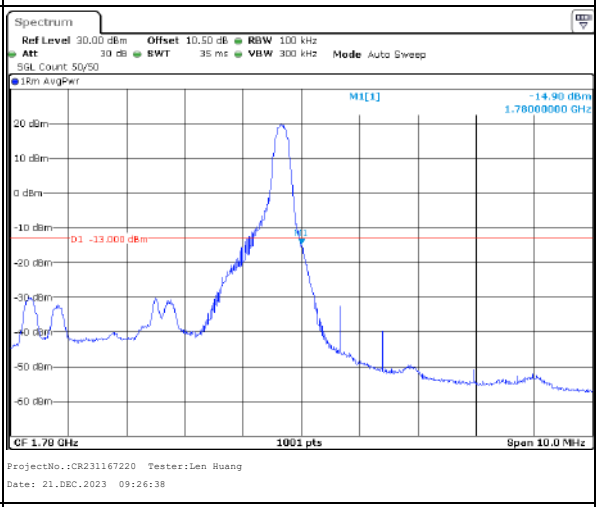
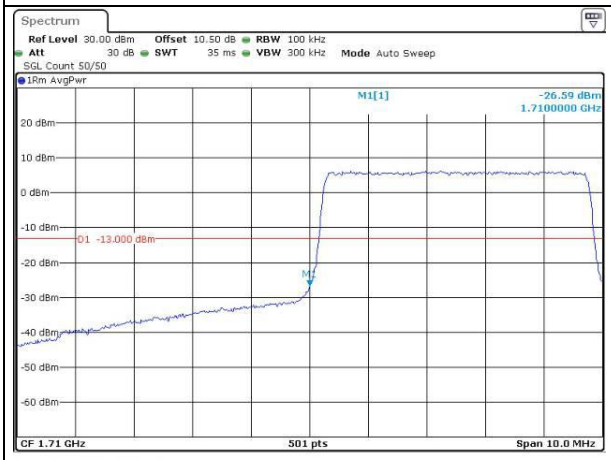
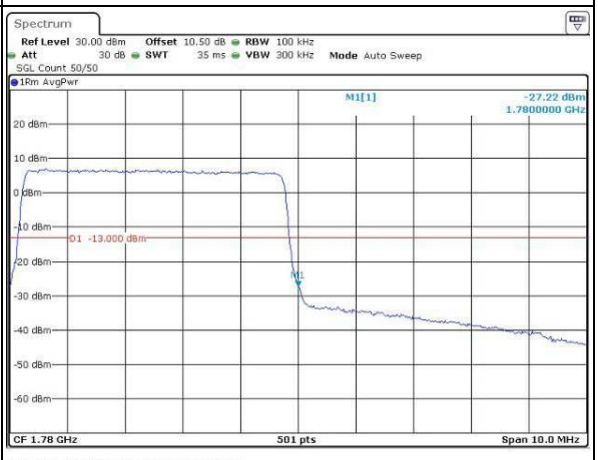
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 10MHz		
	Lowest/Full RB	**Highest/Full RB**
		

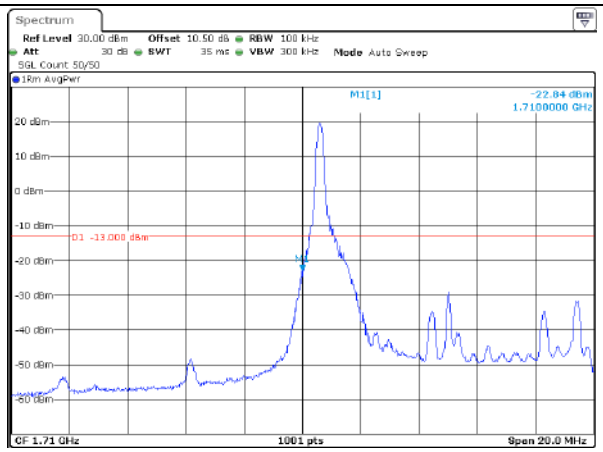
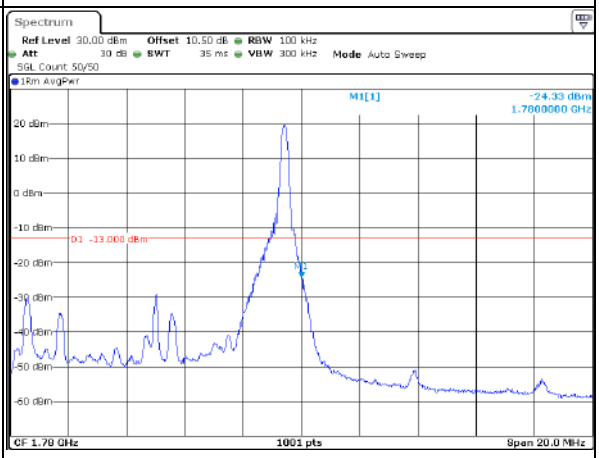
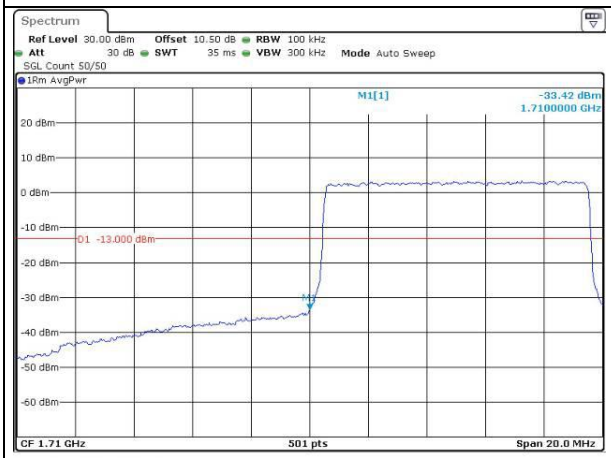
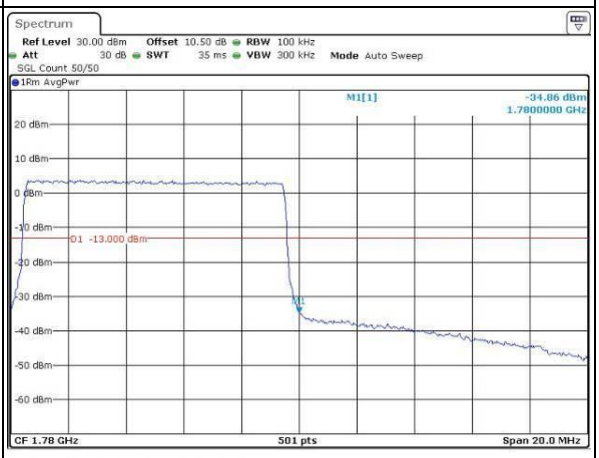
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 15MHz		
	Lowest/Full RB	**Highest/Full RB**
		

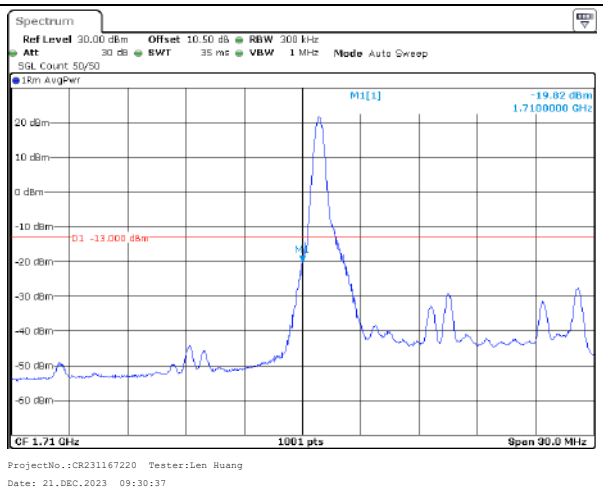
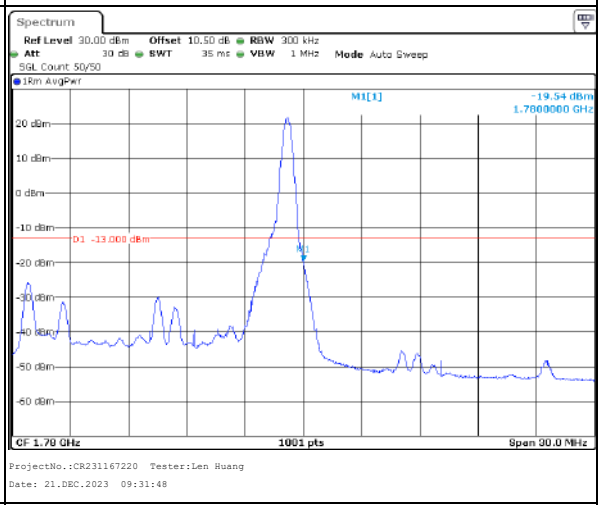
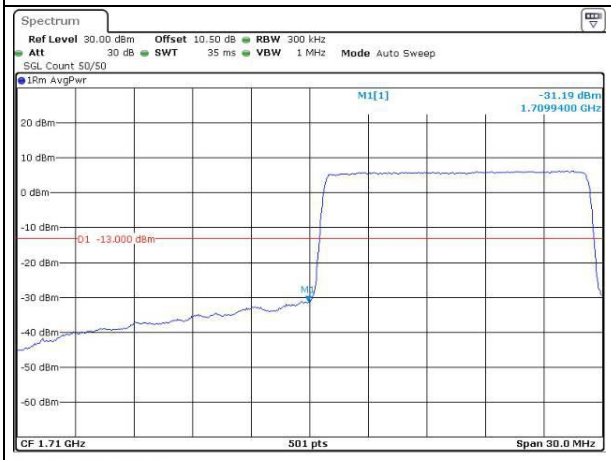
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
QPSK 20MHz		
	Lowest/Full RB	**Highest/Full RB**
		

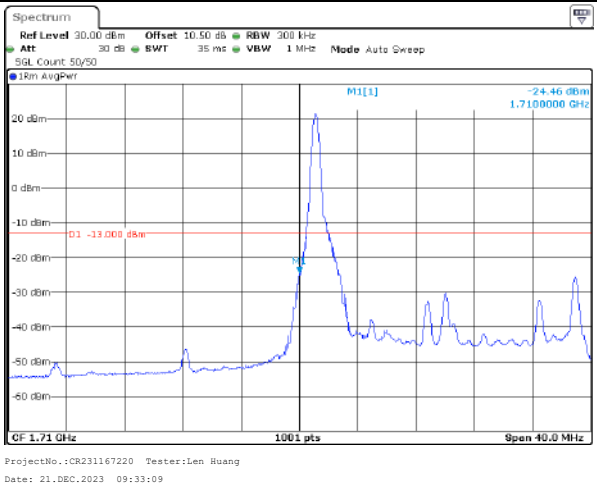
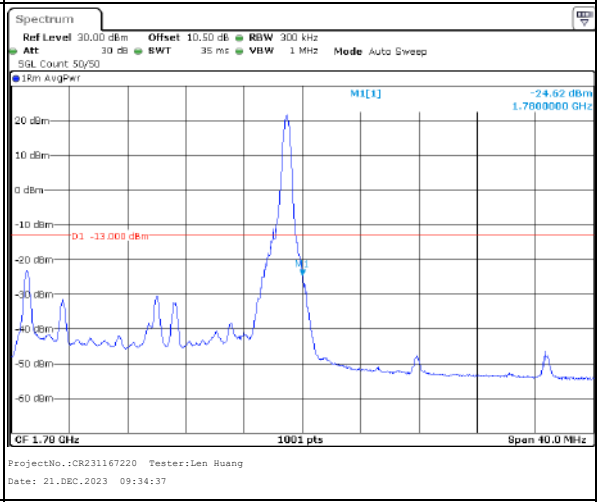
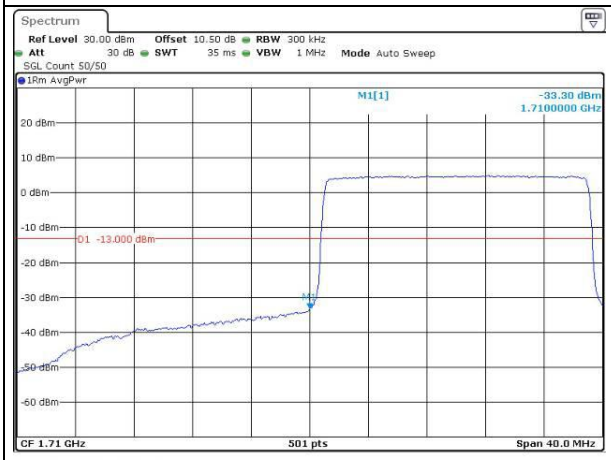
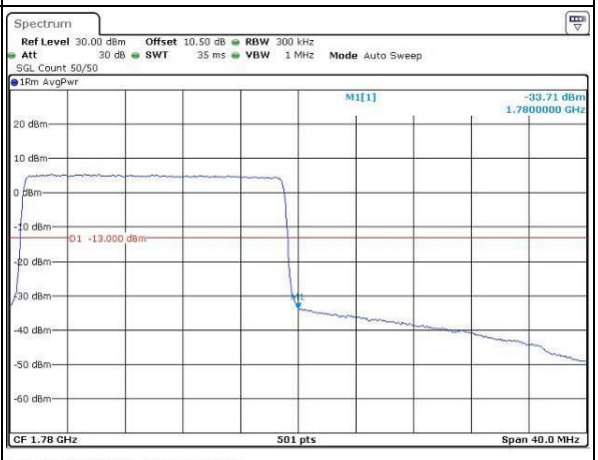
Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 1.4MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 3MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 5MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 10MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 15MHz		
	Lowest/Full RB	**Highest/Full RB**
		

Out of band emission, Band Edge		
Mode	**Lowest/1RB0**	**Highest/1RBmax**
16QAM 20MHz		
	Lowest/Full RB	**Highest/Full RB**
		

4.17 Radiated Spurious Emissions

Serial Number:	2DMI-2	Test Date:	2023/12/2~2023/12/3
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Mack Huang	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.1~26.8	Relative Humidity: (%)	51~62	ATM Pressure: (kPa)	101.6~101.7

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Below 1GHz					
Sunol Sciences	Antenna	JB6	A082520-6	2023/9/18	2026/9/17
R&S	EMI Test Receiver	ESR3	102724	2023/3/31	2024/3/30
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2023/7/16	2024/7/15
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2023/7/16	2024/7/15
Sonoma	Amplifier	310N	186165	2023/7/16	2024/7/15
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
Above 1GHz					
AH	Double Ridge Guide Horn Antenna	SAS-571	1394	2023/2/22	2026/2/21
R&S	Spectrum Analyzer	FSV40	101591	2023/3/31	2024/3/30
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2023/8/6	2024/8/5
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2023/8/6	2024/8/5
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2023/11/8	2024/11/7
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2023/7/16	2024/7/15
Agilent	Signal Generator	E8247C	MY43321352	2023/11/17	2024/11/16
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/2/5	2024/2/4
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2021/2/5	2024/2/4
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2023/9/15	2024/9/14
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/2/5	2024/2/4
PASTERNACK	Horn Antenna	PE9850/2F-20	072002	2021/2/5	2024/2/4
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2023/8/6	2024/8/5

**** 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 Data:
Please refer to the below table and plots.
After pre-scan in the X, Y and Z axes of orientation, the worst case is below:

Cellular Band (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 850 Frequency:824.2MHz								
622.89	H	40.68	-33.06	0.00	0.48	-33.54	-13.00	20.54
869.99	V	48.75	-17.86	0.00	0.58	-18.44	-13.00	5.44
1648.400	H	58.65	-45.68	8.68	0.80	-37.80	-13.00	24.80
1648.400	V	57.03	-47.38	8.68	0.80	-39.50	-13.00	26.50
2472.600	H	59.90	-40.88	9.38	1.00	-32.50	-13.00	19.50
2472.600	V	62.25	-38.48	9.38	1.00	-30.10	-13.00	17.10
3296.800	H	39.01	-57.67	10.32	1.15	-48.50	-13.00	35.50
3296.800	V	38.17	-58.27	10.32	1.15	-49.10	-13.00	36.10
GSM 850 Frequency:836.6MHz								
636.31	H	38.73	-34.93	0.00	0.52	-35.45	-13.00	22.45
884.46	V	48.11	-18.27	0.00	0.60	-18.87	-13.00	5.87
1673.200	H	59.75	-44.56	8.71	0.85	-36.70	-13.00	23.70
1673.200	V	57.65	-46.76	8.71	0.85	-38.90	-13.00	25.90
2509.800	H	61.30	-39.31	9.42	1.01	-30.90	-13.00	17.90
2509.800	V	60.21	-40.41	9.42	1.01	-32.00	-13.00	19.00
3346.400	H	39.09	-58.08	10.34	1.16	-48.90	-13.00	35.90
3346.400	V	39.95	-57.08	10.34	1.16	-47.90	-13.00	34.90
GSM 850 Frequency:848.8MHz								
647.39	H	34.60	-39.00	0.00	0.52	-39.52	-13.00	26.52
893.81	V	48.04	-18.19	0.00	0.66	-18.85	-13.00	5.85
1697.600	H	60.65	-43.64	8.74	0.90	-35.80	-13.00	22.80
1697.600	V	58.88	-45.54	8.74	0.90	-37.70	-13.00	24.70
2546.400	H	62.27	-38.06	9.47	1.01	-29.60	-13.00	16.60
2546.400	V	61.22	-39.06	9.47	1.01	-30.60	-13.00	17.60
3395.200	H	40.52	-57.17	10.36	1.19	-48.00	-13.00	35.00
3395.200	V	41.59	-56.07	10.36	1.19	-46.90	-13.00	33.90

PCS Band (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
210.79	H	39.46	-73.22	0.00	0.26	-73.48	-13.00	60.48
64.89	V	41.49	-62.86	-7.71	0.14	-70.71	-13.00	57.71
3700.400	H	42.97	-54.35	10.60	1.25	-45.00	-13.00	32.00
3700.400	V	41.65	-55.65	10.60	1.25	-46.30	-13.00	33.30
5550.600	H	44.21	-49.05	11.44	1.49	-39.10	-13.00	26.10
5550.600	V	42.75	-50.35	11.44	1.49	-40.40	-13.00	27.40
GSM 1900 Frequency:1880MHz								
306.64	H	38.70	-71.92	0.00	0.34	-72.26	-13.00	59.26
66.73	V	40.92	-62.80	-6.73	0.15	-69.68	-13.00	56.68
3760.000	H	42.69	-53.72	10.66	1.24	-44.30	-13.00	31.30
3760.000	V	41.27	-55.02	10.66	1.24	-45.60	-13.00	32.60
5640.000	H	42.86	-50.59	11.33	1.54	-40.80	-13.00	27.80
5640.000	V	43.74	-49.59	11.33	1.54	-39.80	-13.00	26.80
GSM 1900 Frequency:1909.8MHz								
210.05	H	38.89	-73.80	0.00	0.26	-74.06	-13.00	61.06
58.84	V	41.65	-63.81	-10.83	0.14	-74.78	-13.00	61.78
3819.600	H	44.33	-51.53	10.72	1.29	-42.10	-13.00	29.10
3819.600	V	42.79	-52.93	10.72	1.29	-43.50	-13.00	30.50
5729.400	H	45.65	-47.83	11.22	1.59	-38.20	-13.00	25.20
5729.400	V	46.73	-46.63	11.22	1.59	-37.00	-13.00	24.00

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
191.75	H	37.73	-74.99	0.00	0.26	-75.25	-13.00	62.25
43.51	V	38.52	-55.85	-21.77	0.12	-77.74	-13.00	64.74
3704.800	H	44.21	-53.05	10.60	1.25	-43.70	-13.00	30.70
3704.800	V	43.08	-54.15	10.60	1.25	-44.80	-13.00	31.80
5557.200	H	43.34	-49.94	11.43	1.49	-40.00	-13.00	27.00
5557.200	V	41.89	-51.24	11.43	1.49	-41.30	-13.00	28.30
WCDMA Band II, Frequency:1880 MHz								
185.14	H	37.35	-75.24	0.00	0.25	-75.49	-13.00	62.49
43.97	V	38.75	-56.22	-21.16	0.12	-77.50	-13.00	64.50
3760.000	H	44.29	-52.12	10.66	1.24	-42.70	-13.00	29.70
3760.000	V	43.07	-53.22	10.66	1.24	-43.80	-13.00	30.80
5640.000	H	43.36	-50.09	11.33	1.54	-40.30	-13.00	27.30
5640.000	V	42.34	-50.99	11.33	1.54	-41.20	-13.00	28.20
WCDMA Band II, Frequency:1907.6MHz								
62.65	H	37.03	-66.82	-8.89	0.14	-75.85	-13.00	62.85
57.18	V	38.61	-66.05	-11.60	0.14	-77.79	-13.00	64.79
3815.200	H	44.82	-51.03	10.72	1.29	-41.60	-13.00	28.60
3815.200	V	43.56	-52.13	10.72	1.29	-42.70	-13.00	29.70
5722.800	H	44.24	-49.25	11.23	1.58	-39.60	-13.00	26.60
5722.800	V	44.50	-48.85	11.23	1.58	-39.20	-13.00	26.20

WCDMA Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
			Frequency:	1712.4	MHz			
183.84	H	37.61	-74.96	0.00	0.25	-75.21	-13.00	62.21
56.20	V	39.03	-65.16	-12.05	0.14	-77.35	-13.00	64.35
3424.800	H	43.87	-53.90	10.37	1.17	-44.70	-13.00	31.70
3424.800	V	45.34	-52.40	10.37	1.17	-43.20	-13.00	30.20
5137.200	H	41.80	-51.82	11.28	1.46	-42.00	-13.00	29.00
5137.200	V	43.08	-50.42	11.28	1.46	-40.60	-13.00	27.60
			Frequency:	1732.6	MHz			
191.07	H	37.52	-75.19	0.00	0.26	-75.45	-13.00	62.45
56.12	V	39.05	-65.11	-12.08	0.14	-77.33	-13.00	64.33
3465.200	H	44.57	-53.24	10.39	1.15	-44.00	-13.00	31.00
3465.200	V	45.93	-51.84	10.39	1.15	-42.60	-13.00	29.60
5197.800	H	42.85	-51.28	11.32	1.44	-41.40	-13.00	28.40
5197.800	V	44.00	-49.98	11.32	1.44	-40.10	-13.00	27.10
			Frequency:	1752.6	MHz			
185.79	H	37.34	-75.27	0.00	0.26	-75.53	-13.00	62.53
57.80	V	39.00	-65.96	-11.31	0.14	-77.41	-13.00	64.41
3505.200	H	45.60	-52.23	10.41	1.18	-43.00	-13.00	30.00
3505.200	V	47.04	-50.73	10.41	1.18	-41.50	-13.00	28.50
5257.800	H	43.75	-49.98	11.35	1.47	-40.10	-13.00	27.10
5257.800	V	44.63	-48.88	11.35	1.47	-39.00	-13.00	26.00

WCDMA Band 5(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band 5 Frequency:826.4 MHz								
942.02	H	20.65	-47.09	0.00	0.62	-47.71	-13.00	34.71
528.49	V	20.99	-50.63	0.00	0.44	-51.07	-13.00	38.07
1652.800	H	49.56	-54.77	8.68	0.81	-46.90	-13.00	33.90
1652.800	V	48.24	-56.17	8.68	0.81	-48.30	-13.00	35.30
2479.200	H	45.48	-55.28	9.39	1.01	-46.90	-13.00	33.90
2479.200	V	44.55	-56.18	9.39	1.01	-47.80	-13.00	34.80
3305.600	H	38.46	-58.27	10.32	1.15	-49.10	-13.00	36.10
3305.600	V	39.03	-57.47	10.32	1.15	-48.30	-13.00	35.30
WCDMA Band 5 Frequency:836.6MHz								
721.83	H	20.30	-52.58	0.00	0.50	-53.08	-13.00	40.08
955.31	V	21.07	-43.98	0.00	0.60	-44.58	-13.00	31.58
1673.200	H	49.95	-54.36	8.71	0.85	-46.50	-13.00	33.50
1673.200	V	48.35	-56.06	8.71	0.85	-48.20	-13.00	35.20
2509.800	H	44.80	-55.81	9.42	1.01	-47.40	-13.00	34.40
2509.800	V	44.11	-56.51	9.42	1.01	-48.10	-13.00	35.10
3346.400	H	37.69	-59.48	10.34	1.16	-50.30	-13.00	37.30
3346.400	V	38.25	-58.78	10.34	1.16	-49.60	-13.00	36.60
WCDMA Band 5 Frequency:846.6MHz								
564.86	H	20.83	-53.72	0.00	0.46	-54.18	-13.00	41.18
716.80	V	21.27	-48.28	0.00	0.50	-48.78	-13.00	35.78
1693.200	H	51.26	-53.04	8.73	0.89	-45.20	-13.00	32.20
1693.200	V	49.98	-54.44	8.73	0.89	-46.60	-13.00	33.60
2539.800	H	46.13	-54.25	9.46	1.01	-45.80	-13.00	32.80
2539.800	V	45.49	-54.85	9.46	1.01	-46.40	-13.00	33.40
3386.400	H	40.32	-57.27	10.35	1.18	-48.10	-13.00	35.10
3386.400	V	40.07	-57.47	10.35	1.18	-48.30	-13.00	35.30

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency:1850.7 MHz								
191.70	H	37.96	-74.76	0.00	0.26	-75.02	-13.00	62.02
43.66	V	39.80	-54.76	-21.57	0.12	-76.45	-13.00	63.45
3701.400	H	45.96	-51.35	10.60	1.25	-42.00	-13.00	29.00
3701.400	V	45.34	-51.95	10.60	1.25	-42.60	-13.00	29.60
5552.100	H	50.02	-43.25	11.44	1.49	-33.30	-13.00	20.30
5552.100	V	45.45	-47.65	11.44	1.49	-37.70	-13.00	24.70
QPSK, 1.4MHz,Frequency:1880 MHz								
185.14	H	37.60	-74.99	0.00	0.25	-75.24	-13.00	62.24
58.19	V	39.75	-65.39	-11.13	0.14	-76.66	-13.00	63.66
3760.000	H	45.89	-50.52	10.66	1.24	-41.10	-13.00	28.10
3760.000	V	44.57	-51.72	10.66	1.24	-42.30	-13.00	29.30
5640.000	H	51.06	-42.39	11.33	1.54	-32.60	-13.00	19.60
5640.000	V	46.34	-46.99	11.33	1.54	-37.20	-13.00	24.20
QPSK, 1.4MHz,Frequency:1909.3 MHz								
80.43	H	37.87	-72.05	0.00	0.16	-72.21	-13.00	59.21
43.81	V	39.56	-55.20	-21.37	0.12	-76.69	-13.00	63.69
3818.600	H	46.63	-49.23	10.72	1.29	-39.80	-13.00	26.80
3818.600	V	45.28	-50.43	10.72	1.29	-41.00	-13.00	28.00
5727.900	H	53.24	-40.24	11.23	1.59	-30.60	-13.00	17.60
5727.900	V	48.22	-45.14	11.23	1.59	-35.50	-13.00	22.50

LTE Band 4 (30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
187.09	H	37.63	-75.00	0.00	0.26	-75.26	-13.00	62.26
44.59	V	39.71	-56.05	-20.35	0.12	-76.52	-13.00	63.52
3421.400	H	44.46	-53.30	10.37	1.17	-44.10	-13.00	31.10
3421.400	V	45.93	-51.80	10.37	1.17	-42.60	-13.00	29.60
5132.100	H	48.06	-45.51	11.28	1.47	-35.70	-13.00	22.70
5132.100	V	47.05	-46.41	11.28	1.47	-36.60	-13.00	23.60
1.4MHz QPSK, Frequency: 1732.5 MHz								
184.49	H	37.70	-74.88	0.00	0.25	-75.13	-13.00	62.13
43.66	V	39.97	-54.59	-21.57	0.12	-76.28	-13.00	63.28
3465.000	H	46.97	-50.84	10.39	1.15	-41.60	-13.00	28.60
3465.000	V	48.43	-49.34	10.39	1.15	-40.10	-13.00	27.10
5197.500	H	48.75	-45.38	11.32	1.44	-35.50	-13.00	22.50
5197.500	V	47.70	-46.28	11.32	1.44	-36.40	-13.00	23.40
1.4MHz QPSK, Frequency: 1754.3 MHz								
183.20	H	37.81	-74.74	0.00	0.25	-74.99	-13.00	61.99
58.60	V	39.61	-65.73	-10.95	0.14	-76.82	-13.00	63.82
3508.600	H	47.90	-49.92	10.41	1.19	-40.70	-13.00	27.70
3508.600	V	49.54	-48.22	10.41	1.19	-39.00	-13.00	26.00
5262.900	H	50.11	-43.59	11.36	1.47	-33.70	-13.00	20.70
5262.900	V	48.28	-45.19	11.36	1.47	-35.30	-13.00	22.30

LTE Band 5 (30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency: 824.7 MHz								
589.11	H	20.61	-53.46	0.00	0.48	-53.94	-13.00	40.94
549.25	V	20.94	-50.71	0.00	0.47	-51.18	-13.00	38.18
1649.400	H	60.45	-43.88	8.68	0.80	-36.00	-13.00	23.00
1649.400	V	58.83	-45.58	8.68	0.80	-37.70	-13.00	24.70
2474.100	H	60.60	-40.18	9.38	1.00	-31.80	-13.00	18.80
2474.100	V	59.55	-41.18	9.38	1.00	-32.80	-13.00	19.80
3298.800	H	44.51	-52.17	10.32	1.15	-43.00	-13.00	30.00
3298.800	V	43.77	-52.67	10.32	1.15	-43.50	-13.00	30.50
QPSK, 1.4MHz, Frequency: 836.5 MHz								
935.45	H	21.51	-46.39	0.00	0.66	-47.05	-13.00	34.05
796.22	V	21.12	-46.70	0.00	0.60	-47.30	-13.00	34.30
1673.000	H	61.35	-42.96	8.71	0.85	-35.10	-13.00	22.10
1673.000	V	59.65	-44.76	8.71	0.85	-36.90	-13.00	23.90
2509.500	H	61.00	-39.61	9.42	1.01	-31.20	-13.00	18.20
2509.500	V	59.71	-40.91	9.42	1.01	-32.50	-13.00	19.50
3346.000	H	45.68	-51.48	10.34	1.16	-42.30	-13.00	29.30
3346.000	V	44.74	-52.28	10.34	1.16	-43.10	-13.00	30.10
QPSK, 1.4MHz, Frequency: 848.3 MHz								
726.91	H	21.32	-51.46	0.00	0.52	-51.98	-13.00	38.98
719.31	V	20.80	-48.70	0.00	0.49	-49.19	-13.00	36.19
1696.600	H	62.24	-42.05	8.74	0.89	-34.20	-13.00	21.20
1696.600	V	60.87	-43.55	8.74	0.89	-35.70	-13.00	22.70
2544.900	H	61.98	-38.36	9.47	1.01	-29.90	-13.00	16.90
2544.900	V	60.94	-39.36	9.47	1.01	-30.90	-13.00	17.90
3393.200	H	47.10	-50.57	10.36	1.19	-41.40	-13.00	28.40
3393.200	V	46.46	-51.17	10.36	1.19	-42.00	-13.00	29.00

LTE Band 7(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2502.5 MHz								
185.79	H	37.99	-74.62	0.00	0.26	-74.88	-25.00	49.88
55.03	V	39.03	-64.60	-12.59	0.13	-77.32	-25.00	52.32
5005.000	H	35.73	-57.23	11.20	1.47	-47.50	-25.00	22.50
5005.000	V	35.79	-57.03	11.20	1.47	-47.30	-25.00	22.30
7507.500	H	41.74	-48.05	10.90	1.95	-39.10	-25.00	14.10
7507.500	V	40.54	-49.75	10.90	1.95	-40.80	-25.00	15.80
5MHz QPSK, Frequency: 2535 MHz								
191.75	H	38.29	-74.43	0.00	0.26	-74.69	-25.00	49.69
56.00	V	39.07	-65.03	-12.14	0.14	-77.31	-25.00	52.31
5070.000	H	36.52	-56.67	11.24	1.47	-46.90	-25.00	21.90
5070.000	V	36.62	-56.47	11.24	1.47	-46.70	-25.00	21.70
7605.000	H	42	-47.47	10.88	2.01	-38.60	-25.00	13.60
7605.000	V	40.52	-49.67	10.88	2.01	-40.80	-25.00	15.80
5MHz QPSK, Frequency: 2567.5 MHz								
183.21	H	38.03	-74.52	0.00	0.25	-74.77	-25.00	49.77
56.59	V	38.94	-65.44	-11.87	0.14	-77.45	-25.00	52.45
5135.000	H	37.79	-55.81	11.28	1.47	-46.00	-25.00	21.00
5135.000	V	37.78	-55.71	11.28	1.47	-45.90	-25.00	20.90
7702.500	H	43.23	-46.29	10.86	1.97	-37.40	-25.00	12.40
7702.500	V	41.99	-48.19	10.86	1.97	-39.30	-25.00	14.30

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 699.7 MHz								
868.95	H	20.43	-49.13	0.00	0.58	-49.71	-13.00	36.71
568.74	V	20.41	-51.27	0.00	0.46	-51.73	-13.00	38.73
1399.400	H	44.99	-58.71	8.22	0.71	-51.20	-13.00	38.20
1399.400	V	43.14	-60.61	8.22	0.71	-53.10	-13.00	40.10
2099.100	H	48.23	-53.65	9.16	0.91	-45.40	-13.00	32.40
2099.100	V	46.48	-55.35	9.16	0.91	-47.10	-13.00	34.10
2798.800	H	40.39	-59.54	9.88	1.04	-50.70	-13.00	37.70
2798.800	V	39.66	-60.14	9.88	1.04	-51.30	-13.00	38.30
1.4MHz QPSK, Frequency: 707.5 MHz								
629.55	H	20.35	-53.35	0.00	0.48	-53.83	-13.00	40.83
827.37	V	21.34	-45.96	0.00	0.60	-46.56	-13.00	33.56
1415.000	H	45.53	-58.14	8.26	0.72	-50.60	-13.00	37.60
1415.000	V	43.78	-59.94	8.26	0.72	-52.40	-13.00	39.40
2122.500	H	49.34	-52.65	9.17	0.92	-44.40	-13.00	31.40
2122.500	V	47.22	-54.75	9.17	0.92	-46.50	-13.00	33.50
2830.000	H	39.53	-60.27	9.93	1.06	-51.40	-13.00	38.40
2830.000	V	38.86	-60.87	9.93	1.06	-52.00	-13.00	39.00
1.4MHz QPSK, Frequency: 715.3 MHz								
434.28	H	20.58	-56.59	0.00	0.41	-57.00	-13.00	44.00
367.07	V	20.67	-55.54	0.00	0.37	-55.91	-13.00	42.91
1430.600	H	46.35	-57.28	8.31	0.73	-49.70	-13.00	36.70
1430.600	V	44.91	-58.78	8.31	0.73	-51.20	-13.00	38.20
2145.900	H	50.64	-51.46	9.19	0.93	-43.20	-13.00	30.20
2145.900	V	49.15	-52.96	9.19	0.93	-44.70	-13.00	31.70
2861.200	H	41.14	-58.51	9.98	1.07	-49.60	-13.00	36.60
2861.200	V	40.56	-59.11	9.98	1.07	-50.20	-13.00	37.20

LTE Band 17(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 706.5 MHz								
739.23	H	22.79	-49.74	0.00	0.55	-50.29	-13.00	37.29
526.56	V	22.80	-48.82	0.00	0.43	-49.25	-13.00	36.25
1413.000	H	47.03	-56.64	8.26	0.72	-49.10	-13.00	36.10
1413.000	V	45.38	-58.34	8.26	0.72	-50.80	-13.00	37.80
2119.500	H	43.32	-58.65	9.17	0.92	-50.40	-13.00	37.40
2119.500	V	43.5	-58.45	9.17	0.92	-50.20	-13.00	37.20
2826.000	H	40.15	-59.66	9.92	1.06	-50.80	-13.00	37.80
2826.000	V	39.68	-60.06	9.92	1.06	-51.20	-13.00	38.20
5MHz QPSK, Frequency: 710 MHz								
530.26	H	21.64	-53.59	0.00	0.45	-54.04	-13.00	41.04
742.23	V	22.56	-46.44	0.00	0.55	-46.99	-13.00	33.99
1420.000	H	47.51	-56.15	8.28	0.73	-48.60	-13.00	35.60
1420.000	V	45.86	-57.85	8.28	0.73	-50.30	-13.00	37.30
2130.000	H	43.36	-58.66	9.18	0.92	-50.40	-13.00	37.40
2130.000	V	43.25	-58.76	9.18	0.92	-50.50	-13.00	37.50
2840.000	H	39.77	-59.98	9.94	1.06	-51.10	-13.00	38.10
2840.000	V	39.43	-60.28	9.94	1.06	-51.40	-13.00	38.40
5MHz QPSK, Frequency: 713.5 MHz								
580.62	H	21.22	-53.02	0.00	0.46	-53.48	-13.00	40.48
645.19	V	22.23	-48.68	0.00	0.52	-49.20	-13.00	36.20
1427.000	H	48.87	-54.77	8.30	0.73	-47.20	-13.00	34.20
1427.000	V	47.02	-56.67	8.30	0.73	-49.10	-13.00	36.10
2140.500	H	44.22	-57.85	9.18	0.93	-49.60	-13.00	36.60
2140.500	V	45.03	-57.05	9.18	0.93	-48.80	-13.00	35.80
2854.000	H	41.09	-58.60	9.97	1.07	-49.70	-13.00	36.70
2854.000	V	40.58	-59.10	9.97	1.07	-50.20	-13.00	37.20

LTE Band 38(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2572.5 MHz								
183.49	H	37.95	-74.61	0.00	0.25	-74.86	-25.00	49.86
56.79	V	38.88	-65.60	-11.78	0.14	-77.52	-25.00	52.52
5145.000	H	37.83	-55.85	11.29	1.44	-46.00	-25.00	21.00
5145.000	V	37.72	-55.85	11.29	1.44	-46.00	-25.00	21.00
7717.500	H	42.84	-46.67	10.86	1.99	-37.80	-25.00	12.80
7717.500	V	41.56	-48.57	10.86	1.99	-39.70	-25.00	14.70
5MHz QPSK, Frequency: 2595 MHz								
183.21	H	37.32	-75.23	0.00	0.25	-75.48	-25.00	50.48
56.40	V	38.84	-65.45	-11.96	0.14	-77.55	-25.00	52.55
5190.000	H	38.70	-55.37	11.31	1.44	-45.50	-25.00	20.50
5190.000	V	38.35	-55.57	11.31	1.44	-45.70	-25.00	20.70
7785.000	H	43.34	-46.15	10.84	1.99	-37.30	-25.00	12.30
7785.000	V	41.77	-48.15	10.84	1.99	-39.30	-25.00	14.30
5MHz QPSK, Frequency: 2617.5 MHz								
185.14	H	37.39	-75.20	0.00	0.25	-75.45	-25.00	50.45
44.29	V	38.78	-56.59	-20.74	0.12	-77.45	-25.00	52.45
5235.000	H	39.32	-54.58	11.34	1.46	-44.70	-25.00	19.70
5235.000	V	38.83	-54.88	11.34	1.46	-45.00	-25.00	20.00
7852.500	H	44.19	-45.00	10.83	2.03	-36.20	-25.00	11.20
7852.500	V	42.48	-47.10	10.83	2.03	-38.30	-25.00	13.30

LTE Band 40 Lower (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2307.5 MHz								
191.74	H	37.37	-75.35	0.00	0.26	-75.61	-40.00	35.61
43.66	V	38.89	-55.67	-21.57	0.12	-77.36	-40.00	37.36
4615.000	H	38.13	-57.23	10.74	1.41	-47.90	-40.00	7.90
4615.000	V	37.89	-57.33	10.74	1.41	-48.00	-40.00	8.00
6922.500	H	37.58	-53.44	11.22	1.88	-44.10	-40.00	4.10
6922.500	V	37.05	-53.84	11.22	1.88	-44.50	-40.00	4.50
5MHz QPSK, Frequency: 2312.5 MHz								
183.84	H	37.90	-74.67	0.00	0.25	-74.92	-40.00	34.92
44.12	V	39.01	-56.15	-20.96	0.12	-77.23	-40.00	37.23
4625.000	H	37.35	-57.94	10.75	1.41	-48.60	-40.00	8.60
4625.000	V	37.53	-57.64	10.75	1.41	-48.30	-40.00	8.30
6937.500	H	38.07	-52.91	11.21	1.90	-43.60	-40.00	3.60
6937.500	V	37.53	-53.31	11.21	1.90	-44.00	-40.00	4.00

LTE Band 40 Upper (30MHz-25GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
5MHz QPSK, Frequency: 2352.5 MHz								
191.74	H	37.65	-75.07	0.00	0.26	-75.33	-40.00	35.33
56.94	V	38.54	-66.01	-11.71	0.14	-77.86	-40.00	37.86
4705.000	H	37.24	-57.54	10.85	1.41	-48.10	-40.00	8.10
4705.000	V	37.46	-57.34	10.85	1.41	-47.90	-40.00	7.90
7057.500	H	37.06	-52.95	11.17	1.92	-43.70	-40.00	3.70
7057.500	V	36.45	-53.45	11.17	1.92	-44.20	-40.00	4.20
5MHz QPSK, Frequency: 2357.5 MHz								
191.07	H	37.80	-74.91	0.00	0.26	-75.17	-40.00	35.17
58.82	V	38.65	-66.80	-10.84	0.14	-77.78	-40.00	37.78
4715.000	H	37.86	-56.85	10.86	1.41	-47.40	-40.00	7.40
4715.000	V	37.86	-56.85	10.86	1.41	-47.40	-40.00	7.40
7072.500	H	37.35	-52.45	11.16	1.91	-43.20	-40.00	3.20
7072.500	V	36.76	-52.95	11.16	1.91	-43.70	-40.00	3.70

LTE Band 41(30MHz-27GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 2498.5 MHz								
58.68	H	37.52	-65.96	-10.91	0.14	-77.01	-25.00	52.01
43.81	V	40.44	-54.32	-21.37	0.12	-75.81	-25.00	50.81
4997.000	H	36.64	-56.30	11.20	1.48	-46.58	-25.00	21.58
4997.000	V	37.04	-55.76	11.20	1.48	-46.04	-25.00	21.04
7495.500	H	41.92	-47.87	10.90	1.94	-38.91	-25.00	13.91
7495.500	V	41.03	-49.26	10.90	1.94	-40.30	-25.00	15.30
QPSK, 5MHz, Frequency: 2593MHz								
184.49	H	37.63	-74.95	0.00	0.25	-75.20	-25.00	50.20
57.80	V	38.81	-66.15	-11.31	0.14	-77.60	-25.00	52.60
5186.000	H	37.80	-56.23	11.31	1.44	-46.36	-25.00	21.36
5186.000	V	37.85	-56.04	11.31	1.44	-46.17	-25.00	21.17
7779.000	H	43.04	-46.45	10.84	1.99	-37.60	-25.00	12.60
7779.000	V	41.47	-48.47	10.84	1.99	-39.62	-25.00	14.62
QPSK, 5MHz, Frequency: 2687.5MHz								
191.07	H	37.47	-75.24	0.00	0.26	-75.50	-25.00	50.50
58.60	V	38.53	-66.81	-10.95	0.14	-77.90	-25.00	52.90
5375.000	H	37.92	-55.59	11.43	1.49	-45.65	-25.00	20.65
5375.000	V	37.36	-56.14	11.43	1.49	-46.20	-25.00	21.20
8062.500	H	42.70	-45.52	10.81	2.12	-36.83	-25.00	11.83
8062.500	V	41.45	-47.27	10.81	2.12	-38.58	-25.00	13.58

LTE Band 42(30MHz-36GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 3452.5 MHz								
59.84	H	37.66	-66.17	-10.37	0.14	-76.68	-13.00	63.68
54.45	V	38.82	-64.54	-12.85	0.13	-77.52	-13.00	64.52
6905.000	H	49.33	-41.75	11.22	1.87	-32.40	-13.00	19.40
6905.000	V	47.69	-43.25	11.22	1.87	-33.90	-13.00	20.90
QPSK, 5MHz, Frequency: 3500MHz								
185.92	H	37.11	-75.50	0.00	0.26	-75.76	-13.00	62.76
56.78	V	39.05	-65.42	-11.78	0.14	-77.34	-13.00	64.34
7000.000	H	50.69	-40.11	11.20	1.89	-30.80	-13.00	17.80
7000.000	V	49.04	-41.61	11.20	1.89	-32.30	-13.00	19.30
QPSK, 5MHz, Frequency: 3547.5 MHz								
75.67	H	37.07	-70.11	-2.17	0.16	-72.44	-13.00	59.44
53.68	V	38.65	-64.34	-13.21	0.13	-77.68	-13.00	64.68
7095.000	H	50.84	-38.65	11.14	1.89	-29.40	-13.00	16.40
7095.000	V	51.97	-37.45	11.14	1.89	-28.20	-13.00	15.20

LTE Band 66(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
1.4MHz QPSK, Frequency: 1710.7 MHz								
192.42	H	37.47	-75.27	0.00	0.26	-75.53	-13.00	62.53
44.12	V	37.87	-57.29	-20.96	0.12	-78.37	-13.00	65.37
3421.400	H	44.76	-53.00	10.37	1.17	-43.80	-13.00	30.80
3421.400	V	46.23	-51.50	10.37	1.17	-42.30	-13.00	29.30
5132.100	H	48.26	-45.31	11.28	1.47	-35.50	-13.00	22.50
5132.100	V	47.25	-46.21	11.28	1.47	-36.40	-13.00	23.40
1.4MHz QPSK, Frequency: 1745 MHz								
191.75	H	38.03	-74.69	0.00	0.26	-74.95	-13.00	61.95
57.59	V	36.72	-68.14	-11.41	0.14	-79.69	-13.00	66.69
3490.000	H	45.61	-52.23	10.40	1.17	-43.00	-13.00	30.00
3490.000	V	47.05	-50.73	10.40	1.17	-41.50	-13.00	28.50
5235.000	H	49.12	-44.78	11.34	1.46	-34.90	-13.00	21.90
5235.000	V	47.83	-45.88	11.34	1.46	-36.00	-13.00	23.00
1.4MHz QPSK, Frequency: 1779.3 MHz								
184.50	H	38.59	-73.99	0.00	0.25	-74.24	-13.00	61.24
57.58	V	36.72	-68.13	-11.41	0.14	-79.68	-13.00	66.68
3558.600	H	46.93	-50.74	10.46	1.22	-41.50	-13.00	28.50
3558.600	V	48.43	-49.14	10.46	1.22	-39.90	-13.00	26.90
5337.900	H	49.84	-43.63	11.40	1.47	-33.70	-13.00	20.70
5337.900	V	48.50	-44.83	11.40	1.47	-34.90	-13.00	21.90

Note:
1) The unit of Antenna Gain is dBd for frequency below 1GHz, and the unit of Antenna Gain is dBi for frequency above 1GHz.
2) Absolute Level = Substituted Level - Cable loss + Antenna Gain
3) Margin = Limit-Absolute Level

5. EUT PHOTOGRAPHS

Please refer to the attachment CR231167220-EXP EUT EXTERNAL PHOTOGRAPHS and CR231167220-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231167220-00E-TSP TEST SETUP PHOTOGRAPHS.

==== END OF REPORT =====