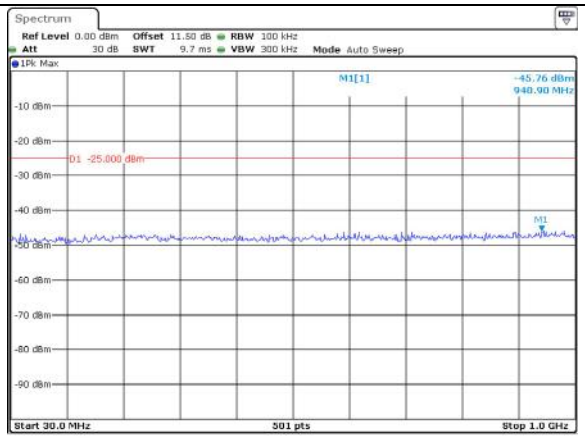
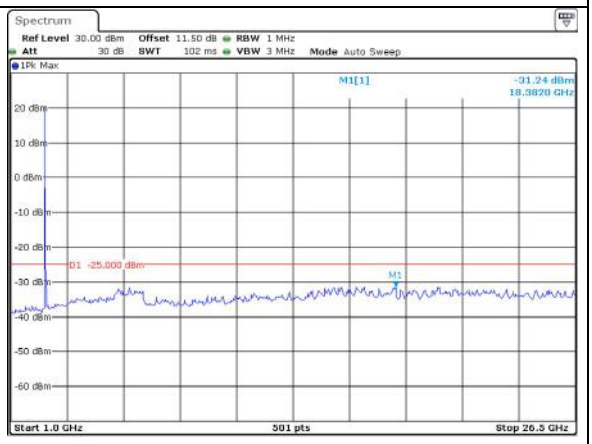
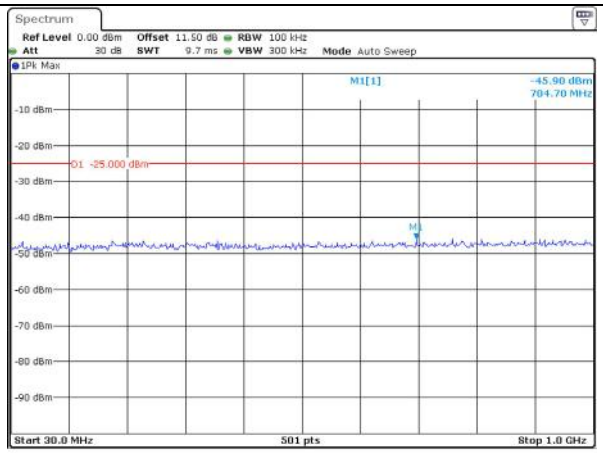
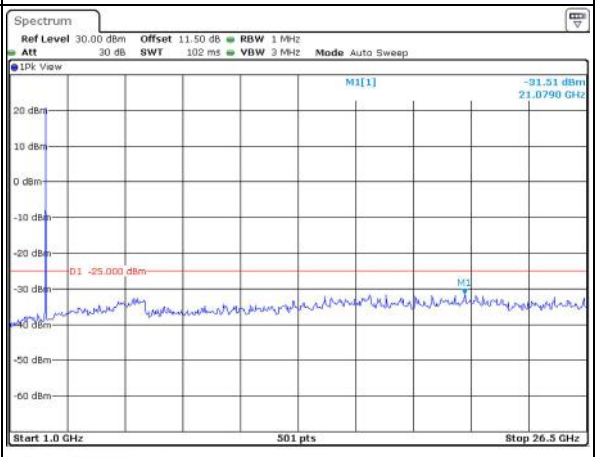
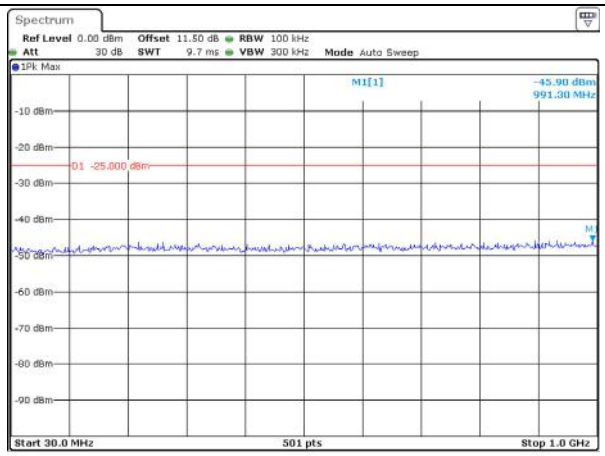
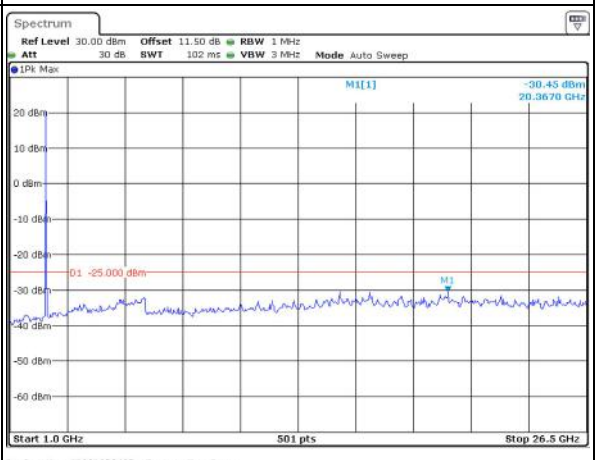
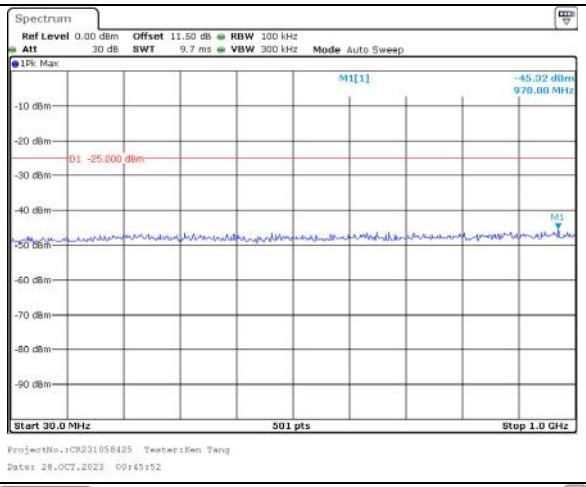
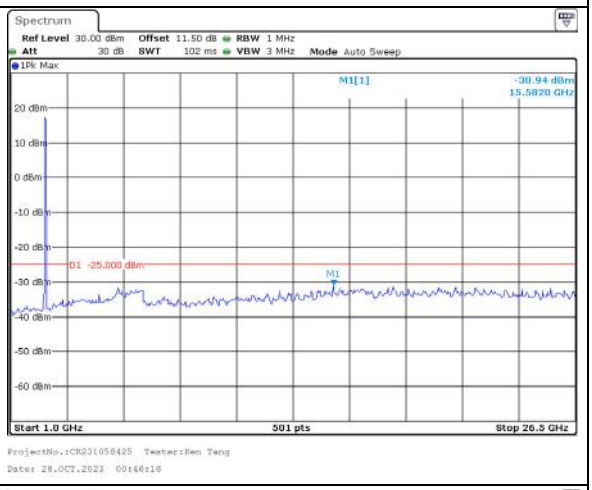
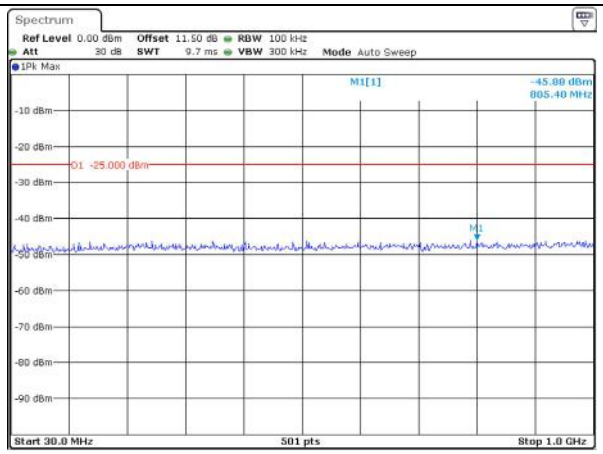
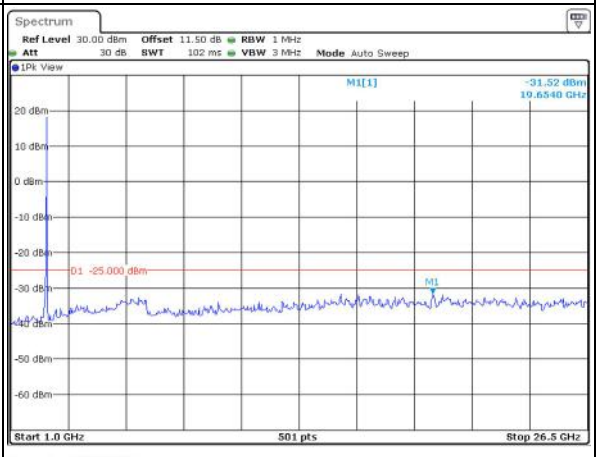
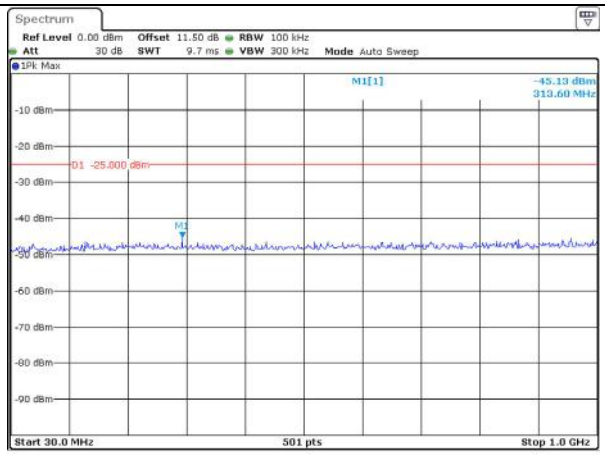
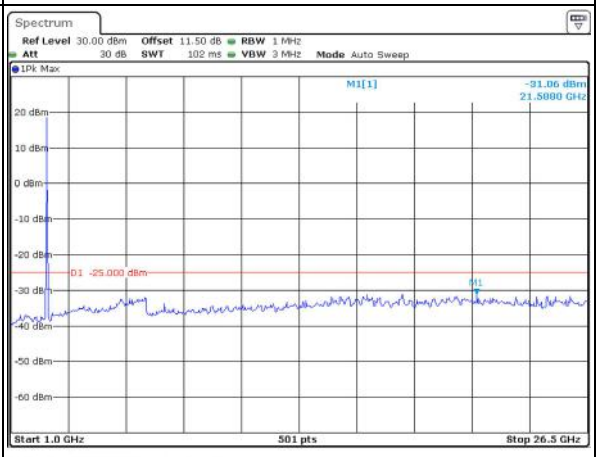
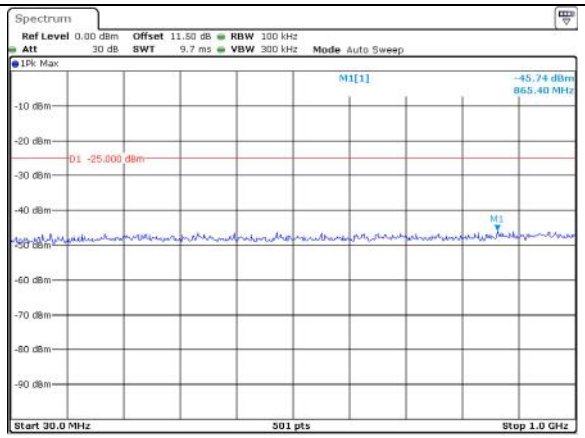
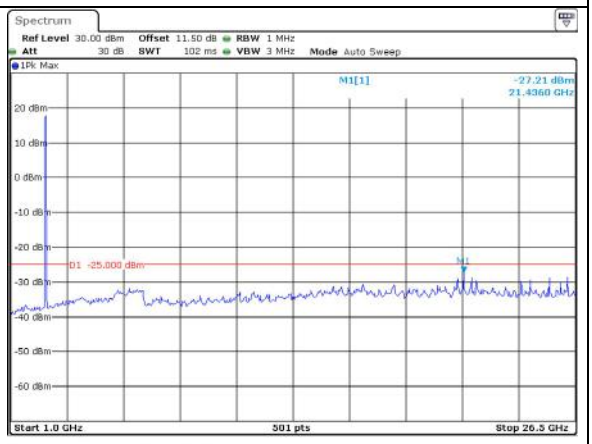
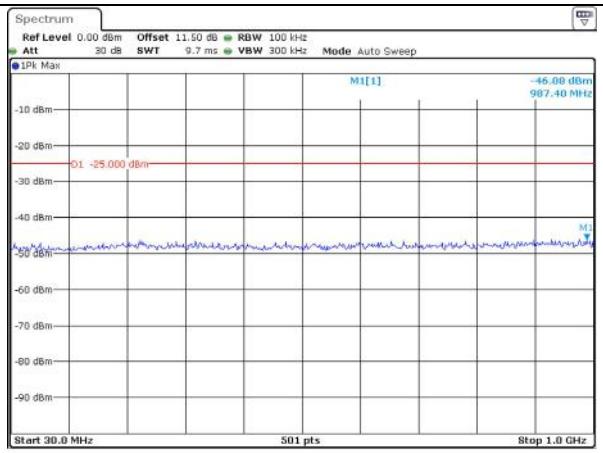
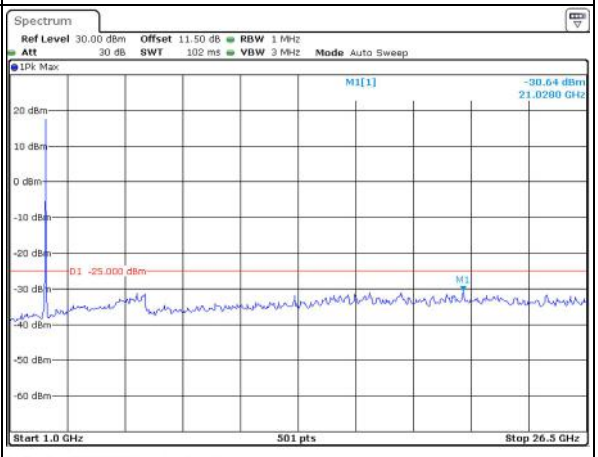
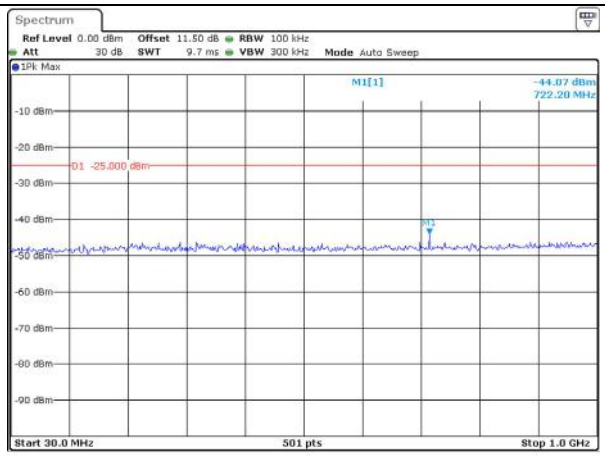
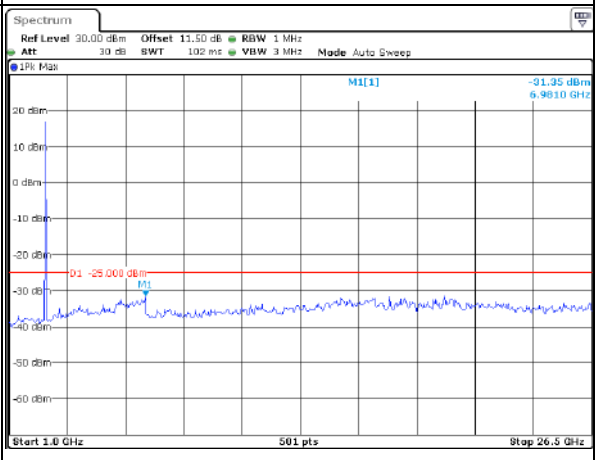
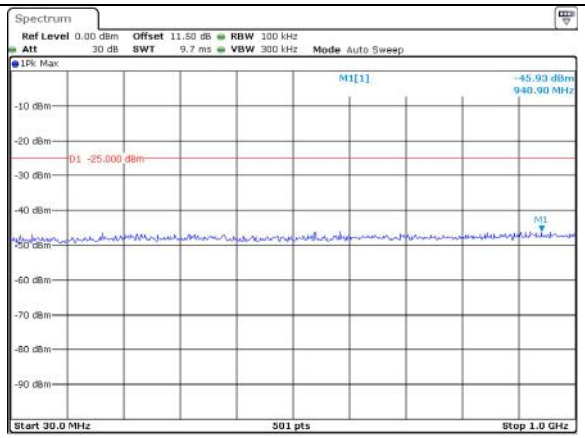
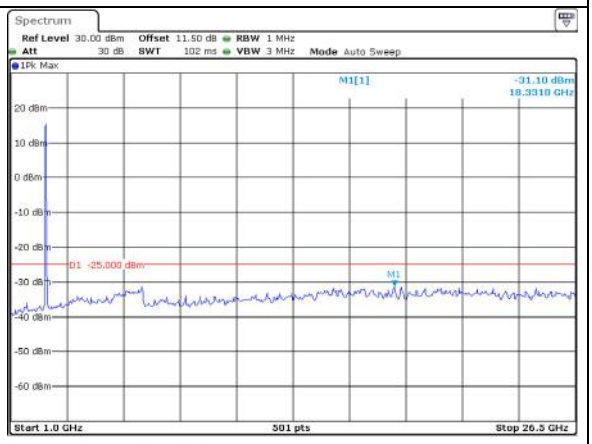
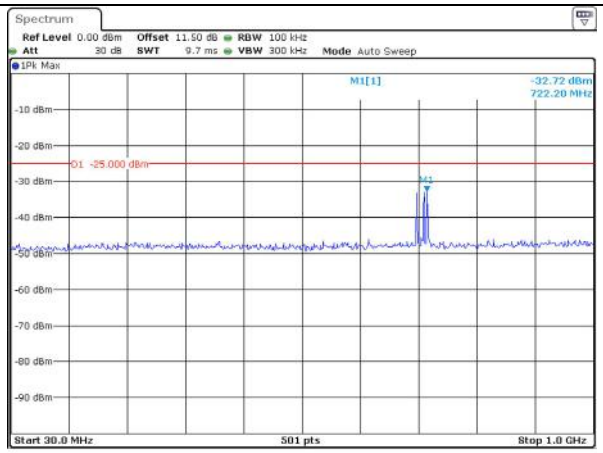
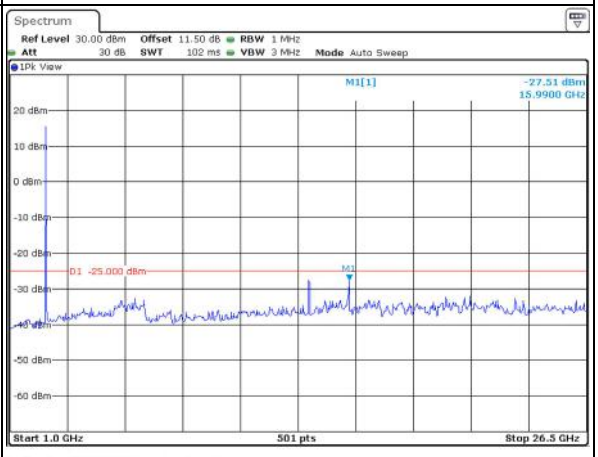
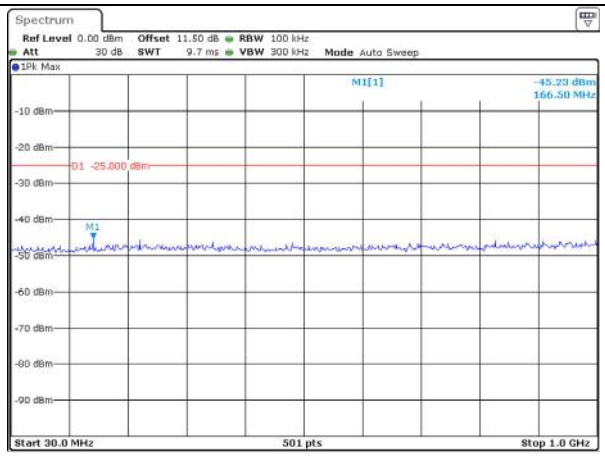
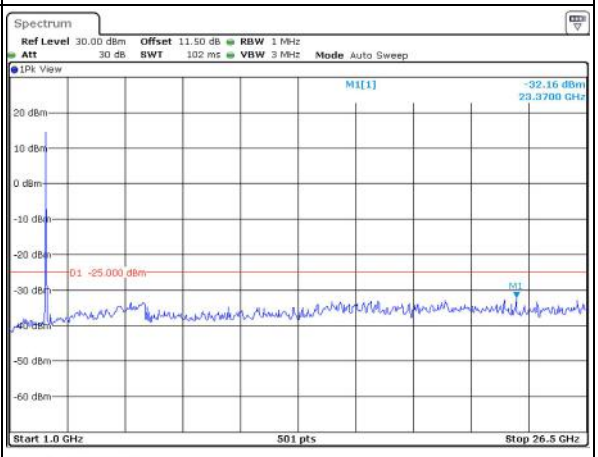
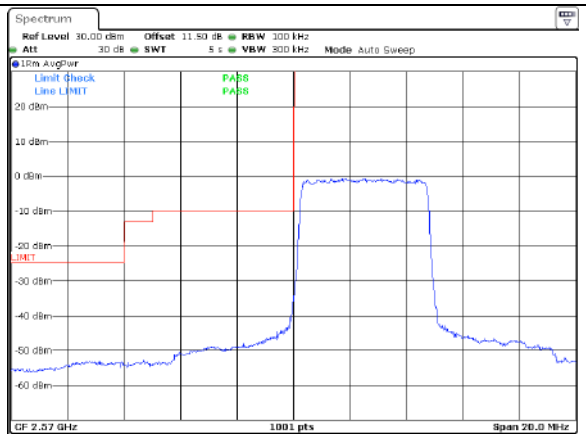
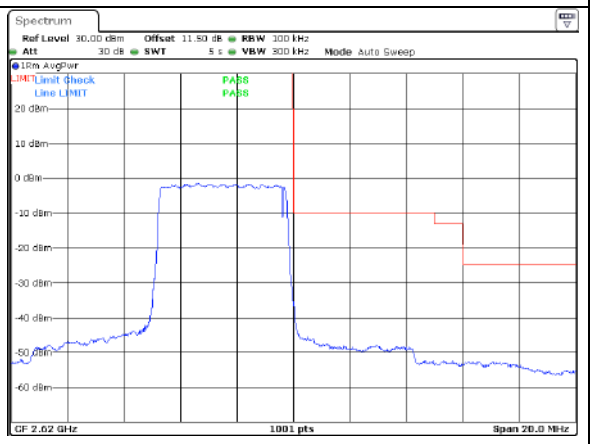
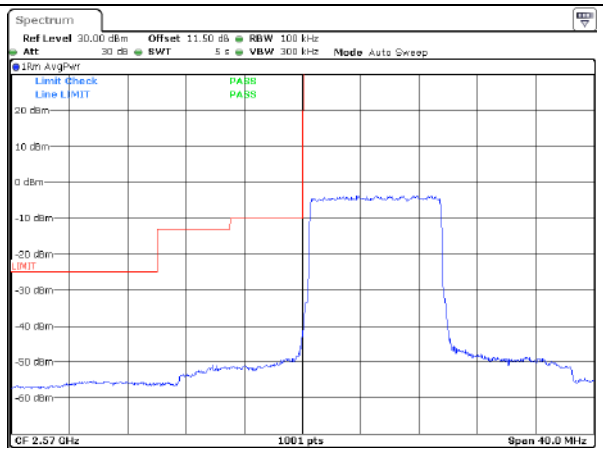
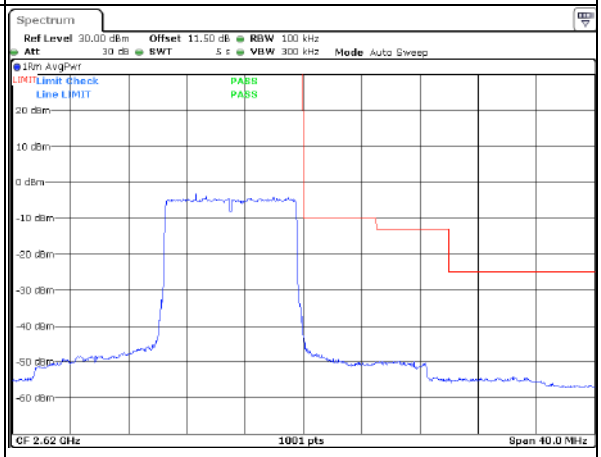
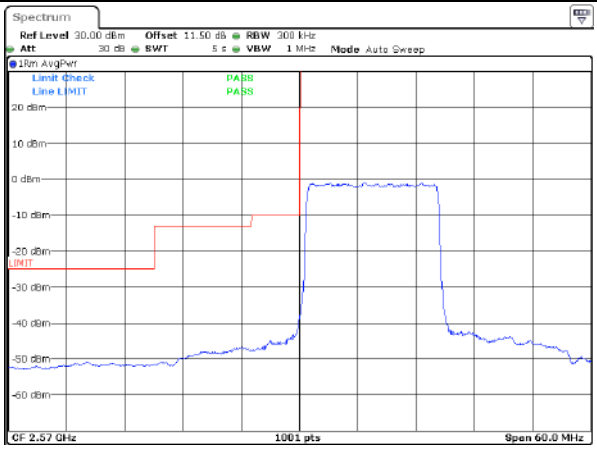
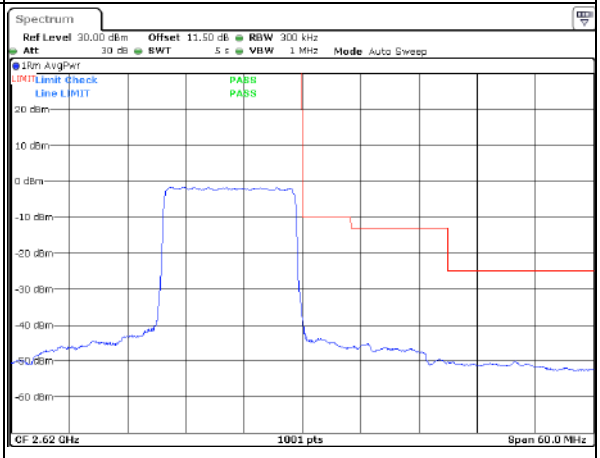
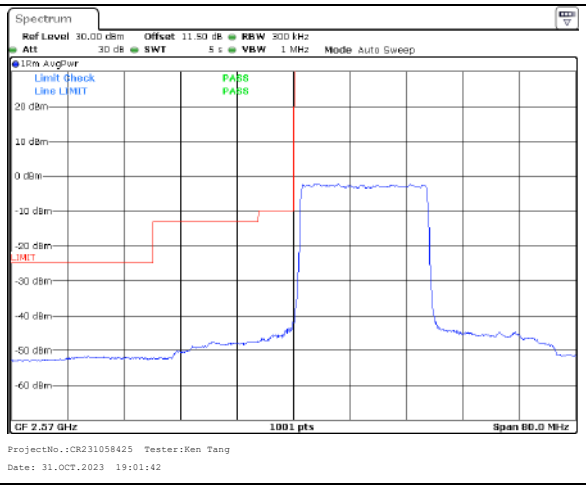
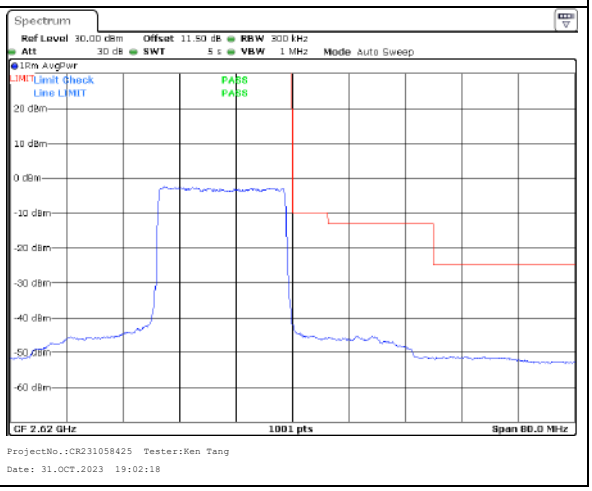
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

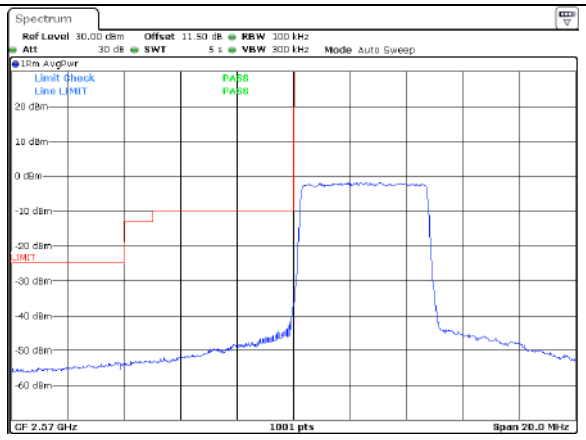
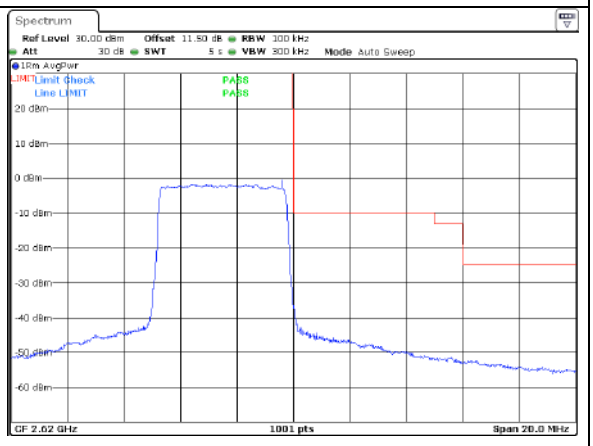
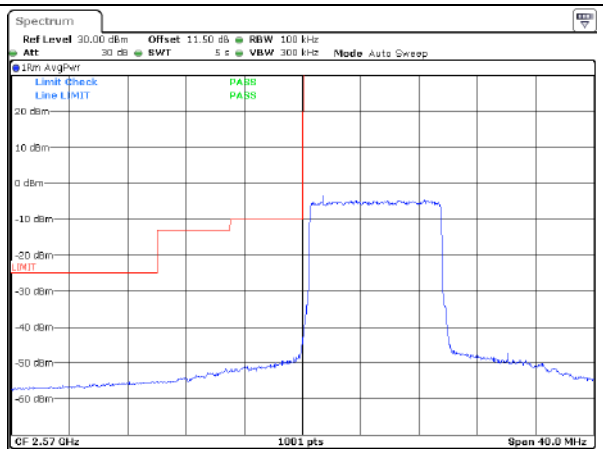
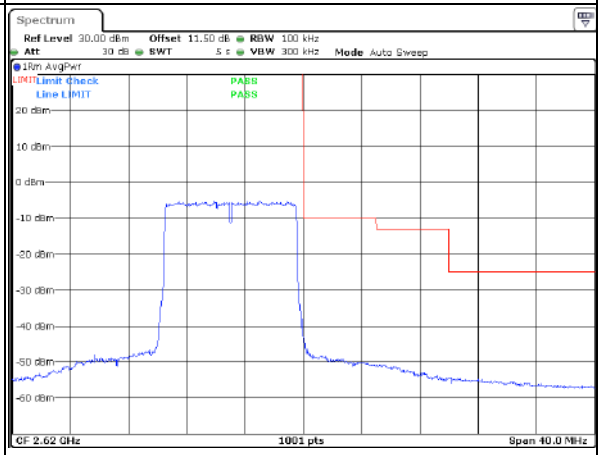
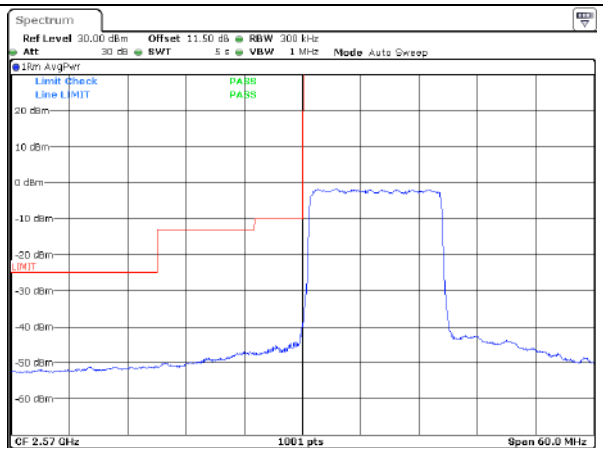
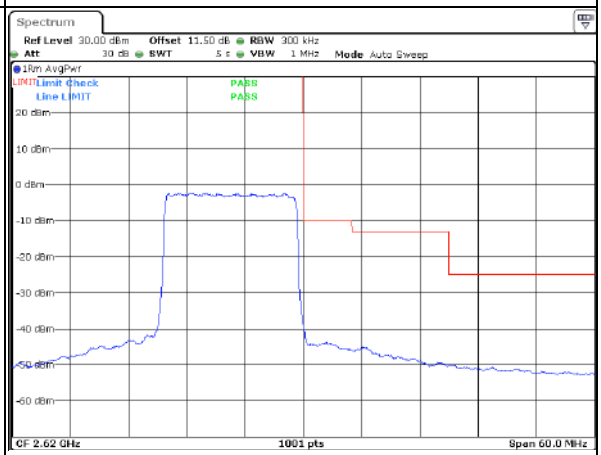
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

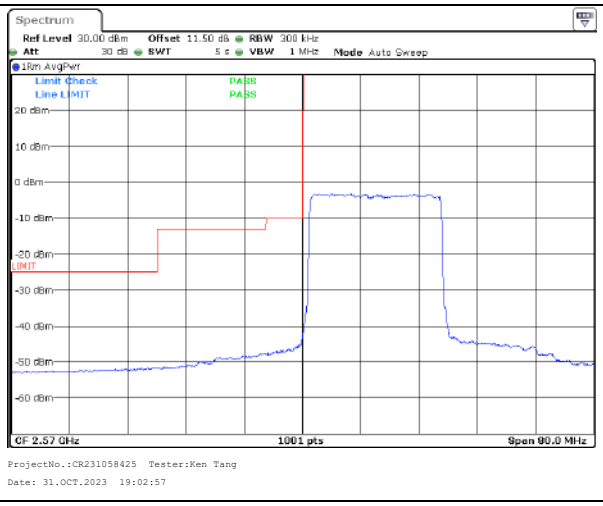
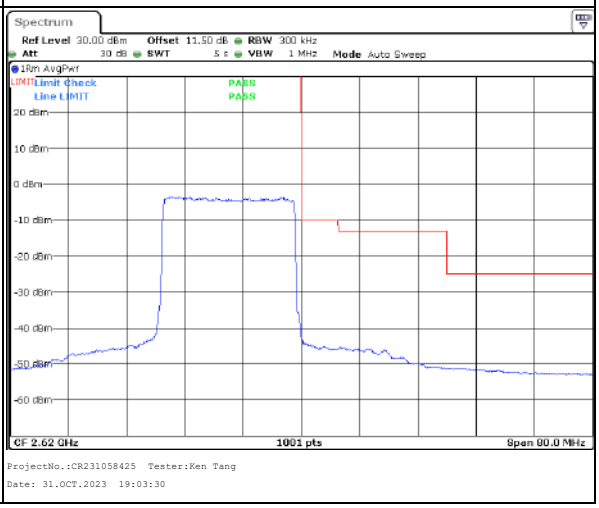
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

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

Out of band emission, Band Edge		
Mode	**Lowest**	**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		

4.16 Antenna Port Test Data and Results for LTE Band 40

Serial Number:	2BYR-5	Test Date:	2023/10/29-2023/11/7
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.5-25.6	Relative Humidity: (%)	60-63	ATM Pressure: (kPa)	100.5-101

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	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	2023/9/28	2024/9/27
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	2307.5	/	2312.5
10MHz	/	2310	/
5MHz	2352.5	/	2357.5
10MHz	/	2355	/

Test Data:

(Note:Uplink Downlink configuration 3 was tested)

FCC§2.1046;§ 27.50(a)(3)

LTE Band 40 Lower:

RF Output Power:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	16.25	/	16.51	**15.83**	24
	RB1#13	16.38	/	16.63		
	RB1#24	16.25	/	16.47		
	RB15#0	15.31	/	15.57		
	RB15#10	15.28	/	15.53		
	RB25#0	15.31	/	15.54		
5MHz 16QAM	RB1#0	15.54	/	15.56	**14.91**	24
	RB1#13	15.66	/	15.71		
	RB1#24	15.50	/	15.55		
	RB15#0	14.35	/	14.63		
	RB15#10	14.36	/	14.63		
	RB25#0	14.33	/	14.65		
10MHz QPSK	RB1#0	/	16.43	/	15.76	24
	RB1#25	/	16.56	/		
	RB1#49	/	16.43	/		
	RB25#0	/	15.49	/		
	RB25#25	/	15.48	/		
	RB50#0	/	15.49	/		
10MHz 16QAM	RB1#0	/	15.47	/	14.78	24
	RB1#25	/	15.58	/		
	RB1#49	/	15.44	/		
	RB25#0	/	14.50	/		
	RB25#25	/	14.47	/		
	RB50#0	/	14.61	/		

Note:
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit
EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)
EIRP PSD=Conducted PSD(dBm/5MHz) - L_C(dB) + G_T(dBi)

LTE Band 40 Upper:

RF Output Power:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	15.25	/	15.10	14.95	24
	RB1#13	15.65	/	15.75		
	RB1#24	14.95	/	15.22		
	RB15#0	14.40	/	14.35		
	RB15#10	14.27	/	14.38		
	RB25#0	14.30	/	14.35		
5MHz 16QAM	RB1#0	14.21	/	13.96	13.79	24
	RB1#13	14.59	/	14.58		
	RB1#24	13.91	/	14.04		
	RB15#0	13.57	/	13.49		
	RB15#10	13.45	/	13.52		
	RB25#0	13.50	/	13.56		
10MHz QPSK	RB1#0	/	15.40	/	**15.06**	24
	RB1#25	/	15.86	/		
	RB1#49	/	15.26	/		
	RB25#0	/	14.59	/		
	RB25#25	/	14.55	/		
	RB50#0	/	14.53	/		
10MHz 16QAM	RB1#0	/	14.54	/	**14.20**	24
	RB1#25	/	15.00	/		
	RB1#49	/	14.41	/		
	RB25#0	/	13.58	/		
	RB25#25	/	13.49	/		
	RB50#0	/	13.36	/		

Note:
For 5MHz mode, the channel power is equal to the test result in dBm/5MHz.
For 10MHz mode, the channel power is sum of 10MHz bandwidth, the result is less than 24dBm, so in any 5MHz bandwidth, it's will not exceed limit
EIRP=Conducted Power(dBm) - L_C(dB) + G_T(dBi)
EIRP PSD=Conducted PSD(dBm/5MHz) - L_C(dB) + G_T(dBi)

Result:	**Pass**

Duty Cycle

Operation Band	Modulation	Bandwidth	Ton (ms)	Ton+off (ms)	Duty Cycle (%)	Limit (%)
LTE Band 40 Lower	QPSK	5M	3	10	30.00	38
		10M	3	10	30.00	38
	16QAM	5M	3	10	30.00	38
		10M	3	10	30.00	38
LTE Band 40 Upper	QPSK	5M	3	10	30.00	38
		10M	3	10	30.00	38
	16QAM	5M	3	10	30.00	38
		10M	3	10	30.00	38
					Result:	**Pass**

FCC §2.1049, §27.53:Occupied Bandwidth

LTE Band 40 Lower:

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle channel	High Channel
5MHz QPSK	4.511	/	4.511	5.080	/	5.060
5MHz 16QAM	4.511	/	4.511	5.100	/	5.180
10MHz QPSK	/	8.942	/	/	9.720	/
10MHz 16QAM	/	8.942	/	/	9.760	/

LTE Band 40 Upper:

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle channel	High Channel
5MHz QPSK	4.511	/	4.511	5.120	/	5.100
5MHz 16QAM	4.511	/	4.511	5.120	/	4.980
10MHz QPSK	/	8.942	/	/	9.840	/
10MHz 16QAM	/	8.942	/	/	9.800	/

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

LTE Band 40 Lower:

Test Mode:	10M 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	3.85	2305.022	2305.000	2314.983	2315.000
	-20	3.85	2305.009	2305.000	2314.975	2315.000
	-10	3.85	2305.024	2305.000	2314.982	2315.000
	0	3.85	2305.006	2305.000	2314.970	2315.000
	10	3.85	2305.029	2305.000	2314.987	2315.000
	20	3.85	2305.028	2305.000	2314.979	2315.000
	30	3.85	2305.015	2305.000	2314.985	2315.000
	40	3.85	2305.002	2305.000	2314.998	2315.000
	50	3.85	2305.023	2305.000	2314.990	2315.000
Frequency Stability vs. Voltage	20	3.35	2305.018	2305.000	2314.997	2315.000
	20	4.4	2305.016	2305.000	2314.974	2315.000
					Result:	**Pass**

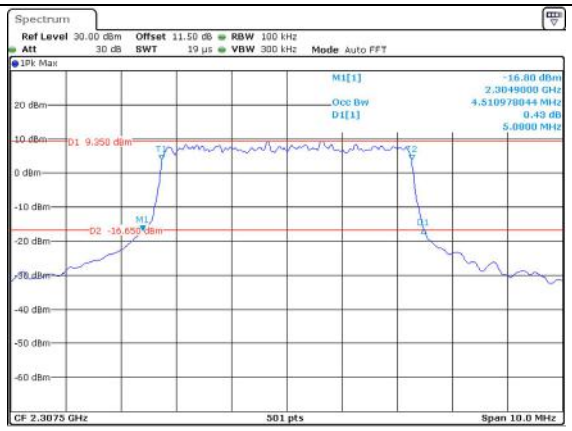
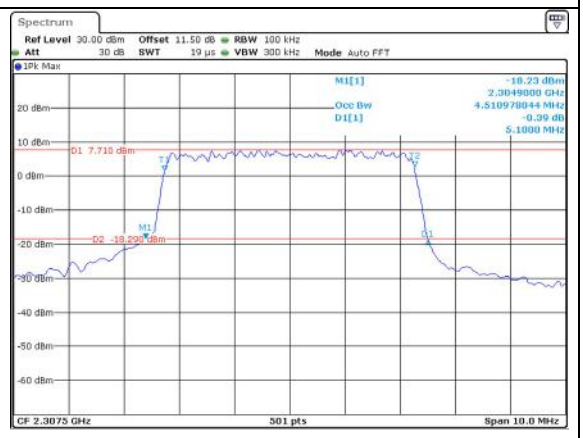
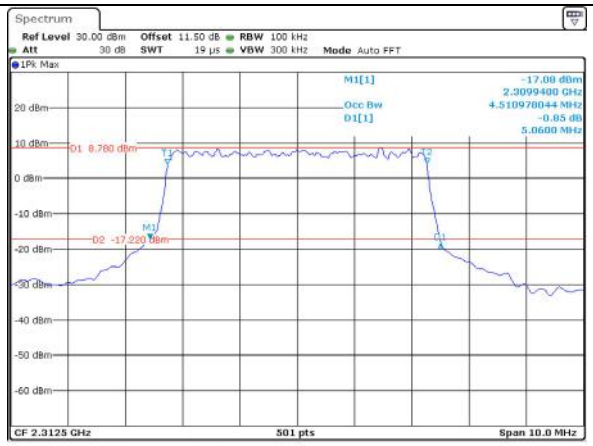
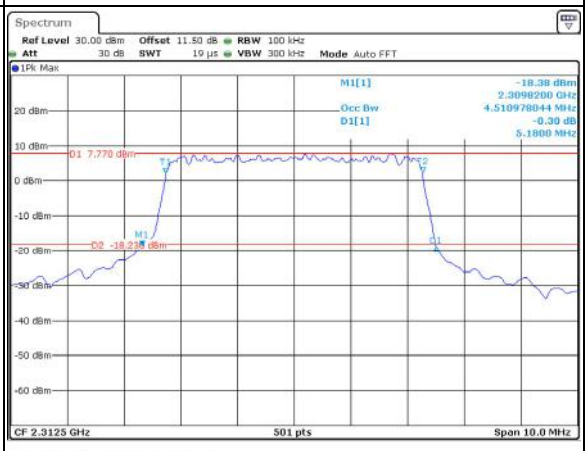
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2305.029	2305.000	2314.984	2315.000
	-20	3.85	2305.009	2305.000	2314.996	2315.000
	-10	3.85	2305.011	2305.000	2314.990	2315.000
	0	3.85	2305.013	2305.000	2314.972	2315.000
	10	3.85	2305.002	2305.000	2314.999	2315.000
	20	3.85	2305.029	2305.000	2314.986	2315.000
	30	3.85	2305.016	2305.000	2314.981	2315.000
	40	3.85	2305.028	2305.000	2314.989	2315.000
	50	3.85	2305.006	2305.000	2314.976	2315.000
Frequency Stability vs. Voltage	20	3.35	2305.002	2305.000	2314.978	2315.000
	20	4.4	2305.007	2305.000	2314.986	2315.000
					Result:	**Pass**

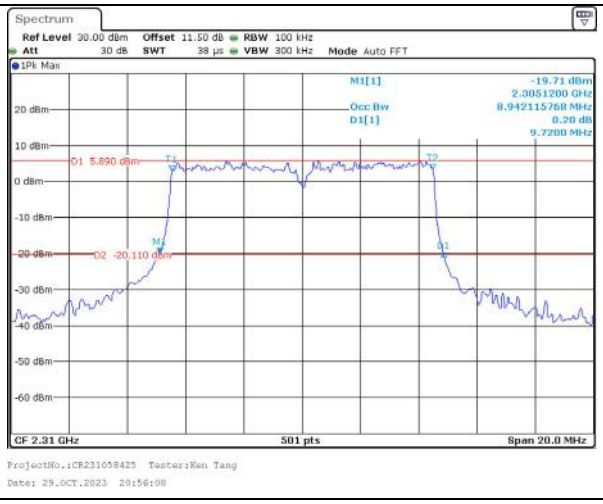
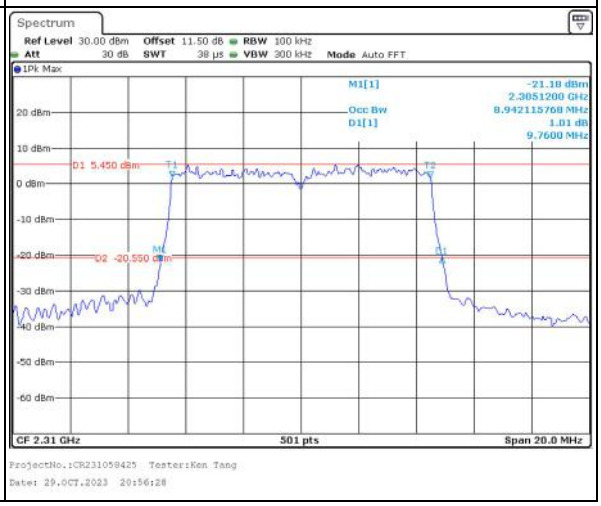
LTE Band 40 Upper:						
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2350.017	2350.000	2359.974	2360.000
	-20	3.85	2350.023	2350.000	2359.984	2360.000
	-10	3.85	2350.020	2350.000	2359.975	2360.000
	0	3.85	2350.006	2350.000	2359.974	2360.000
	10	3.85	2350.008	2350.000	2359.976	2360.000
	20	3.85	2350.020	2350.000	2359.992	2360.000
	30	3.85	2350.007	2350.000	2359.975	2360.000
	40	3.85	2350.005	2350.000	2359.991	2360.000
	50	3.85	2350.003	2350.000	2359.977	2360.000
Frequency Stability vs. Voltage	20	3.35	2350.029	2350.000	2359.993	2360.000
	20	4.4	2350.019	2350.000	2359.976	2360.000
					Result:	**Pass**

Test Mode:	10M 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	3.85	2350.002	2350.000	2359.986	2360.000
	-20	3.85	2350.009	2350.000	2359.986	2360.000
	-10	3.85	2350.001	2350.000	2359.994	2360.000
	0	3.85	2350.029	2350.000	2359.981	2360.000
	10	3.85	2350.025	2350.000	2359.991	2360.000
	20	3.85	2350.008	2350.000	2359.992	2360.000
	30	3.85	2350.007	2350.000	2359.982	2360.000
	40	3.85	2350.002	2350.000	2359.972	2360.000
	50	3.85	2350.018	2350.000	2359.989	2360.000
Frequency Stability vs. Voltage	20	3.35	2350.026	2350.000	2359.992	2360.000
	20	4.4	2350.003	2350.000	2359.972	2360.000
					Result:	**Pass**

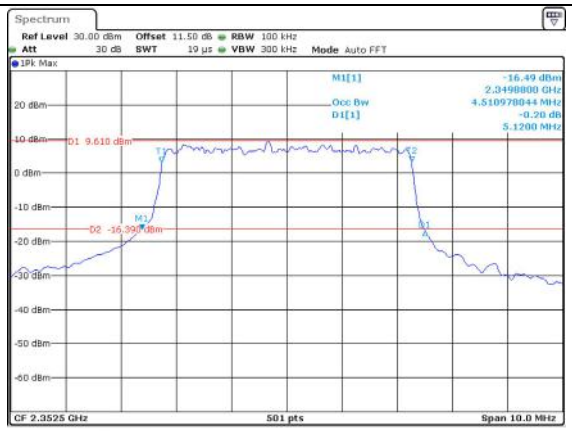
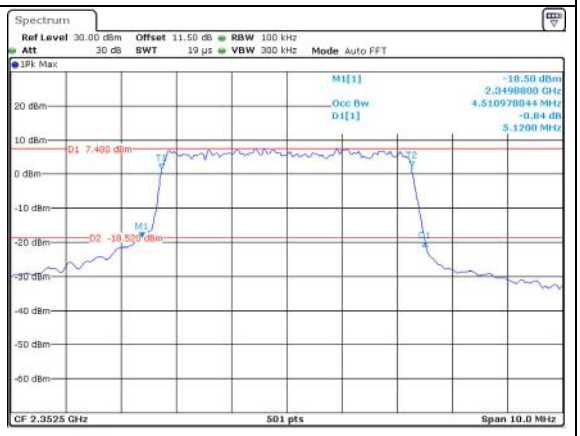
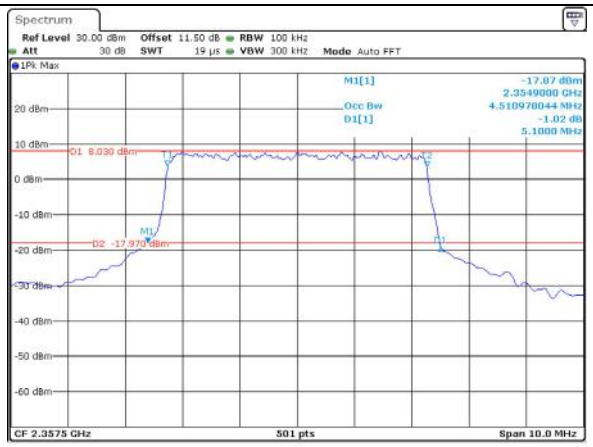
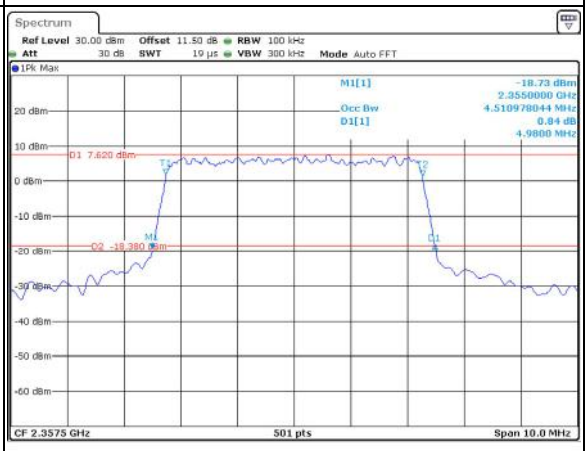
Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

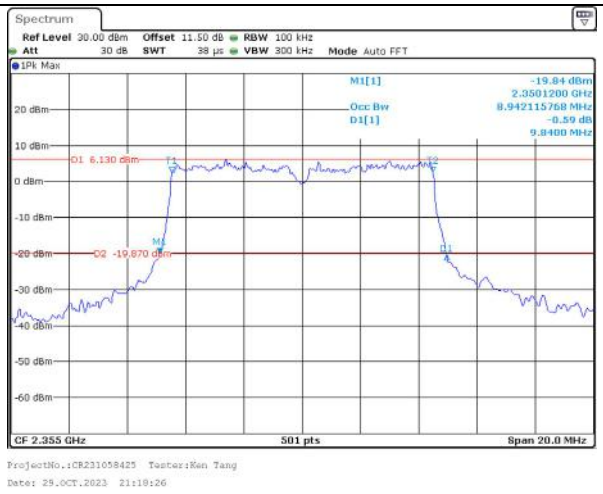
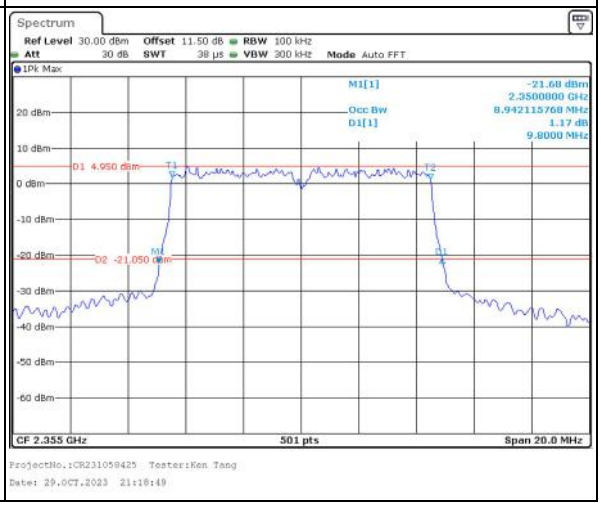
LTE Band 40 Lower:

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

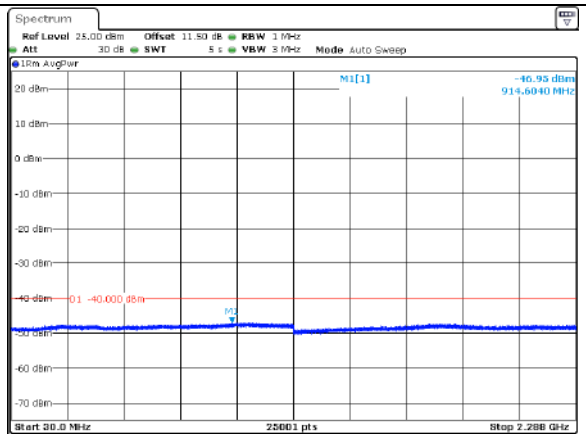
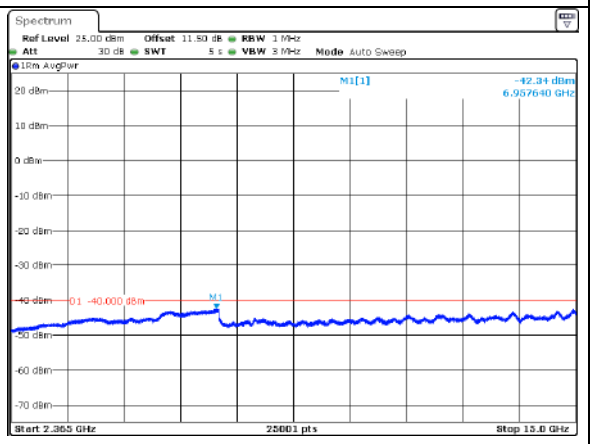
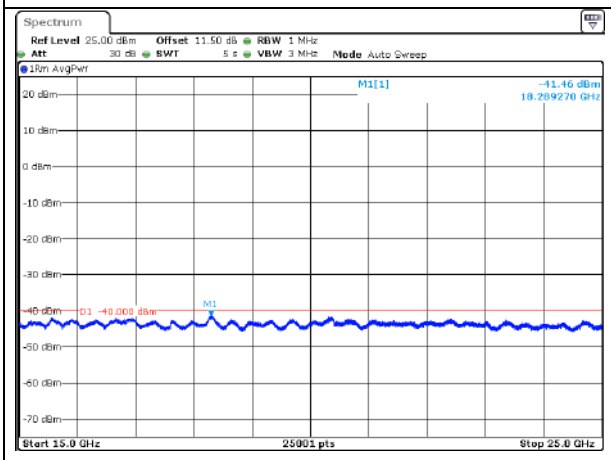
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Middle		

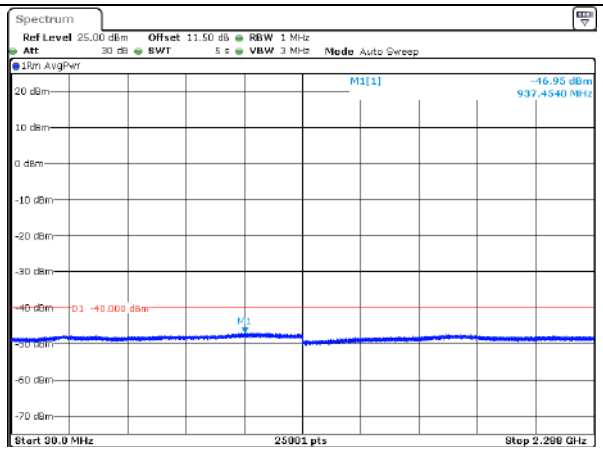
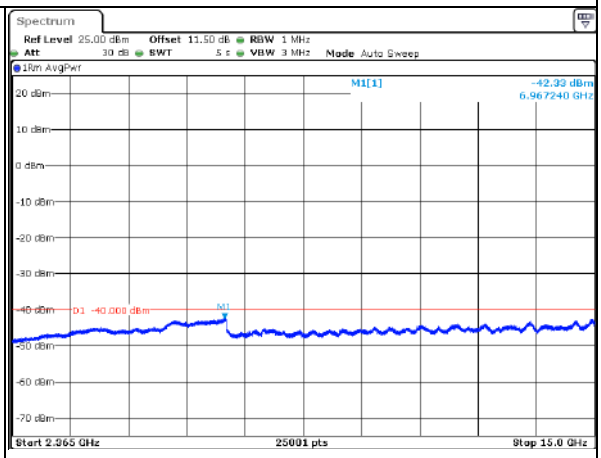
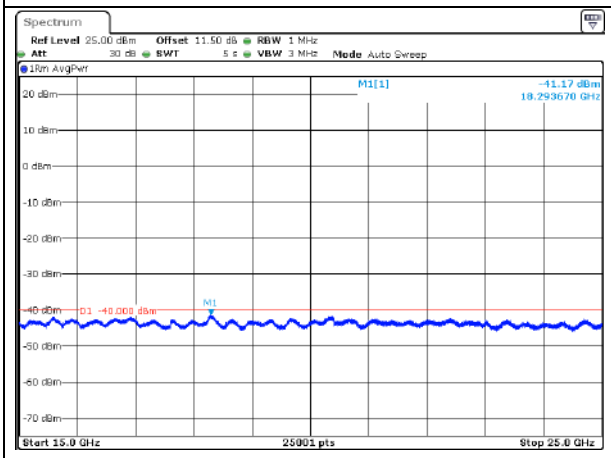
LTE Band 40 Upper:

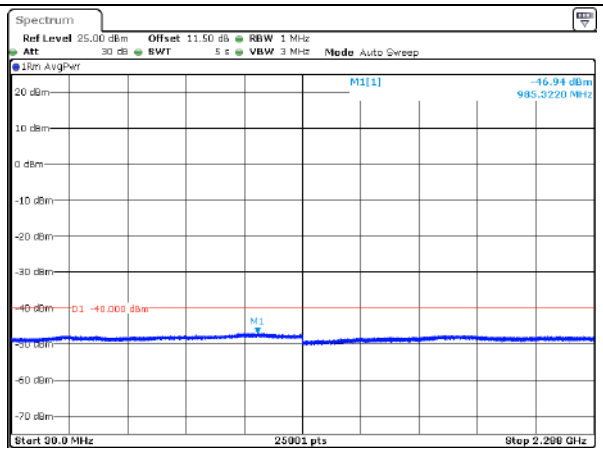
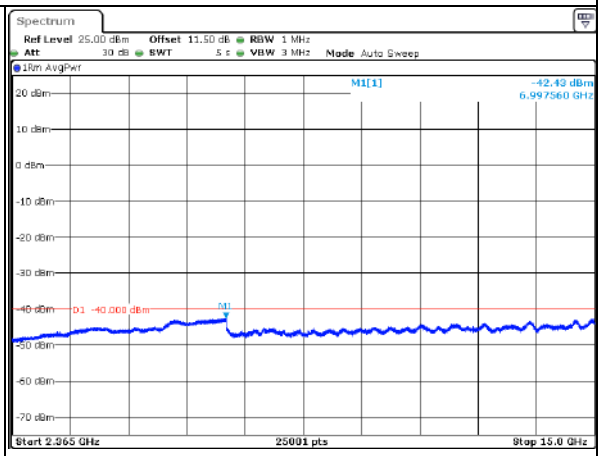
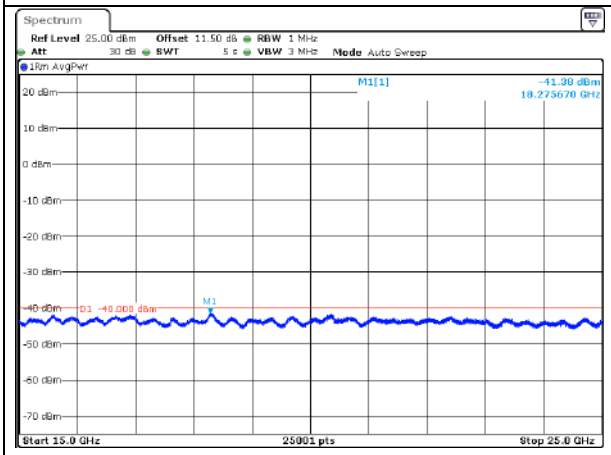
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Highest		

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

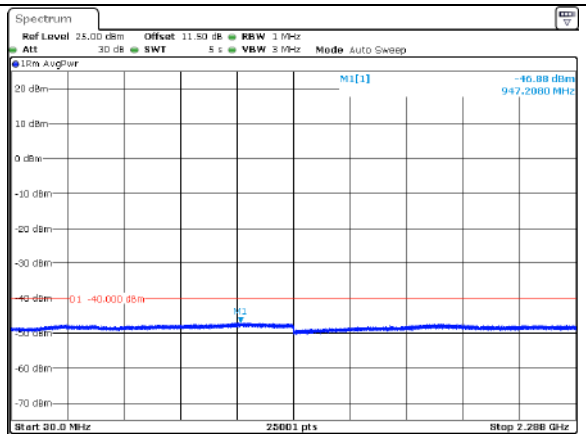
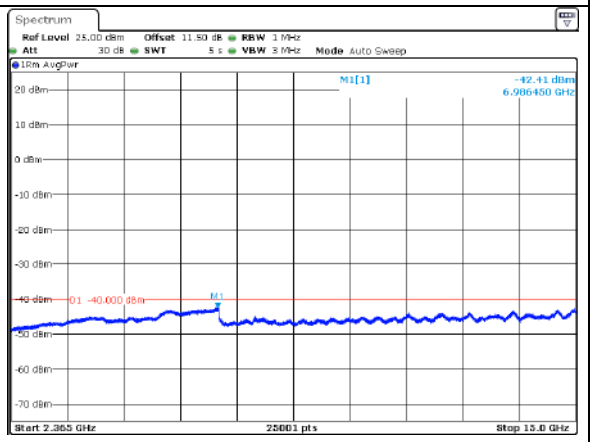
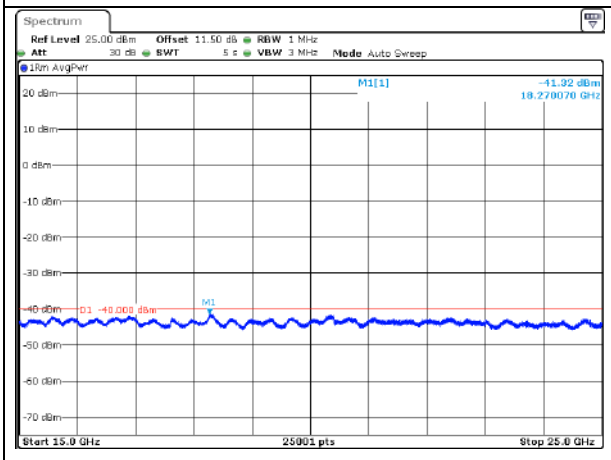
LTE Band 40 Lower:

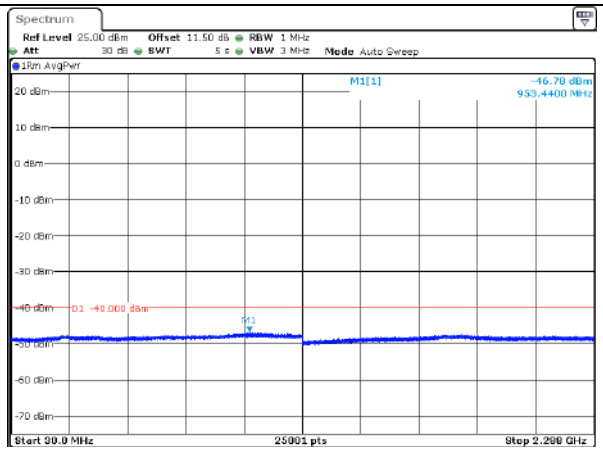
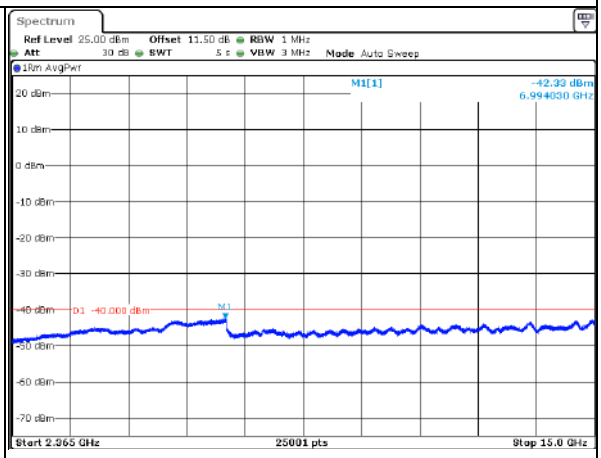
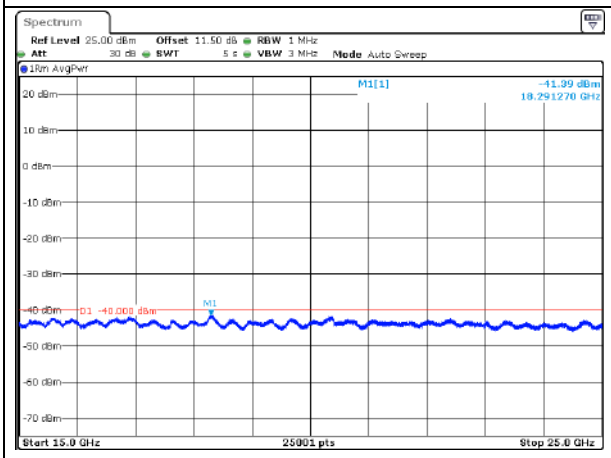
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
		

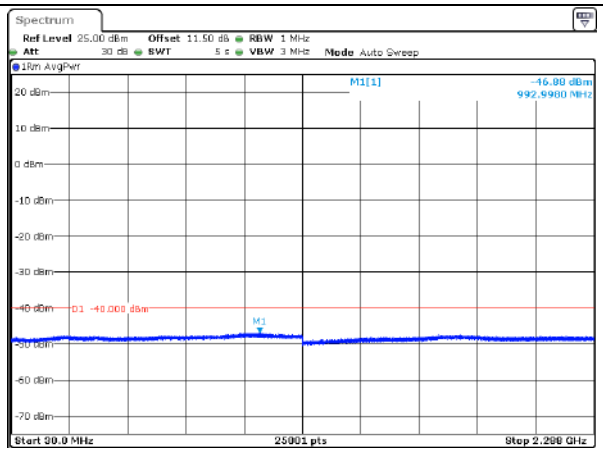
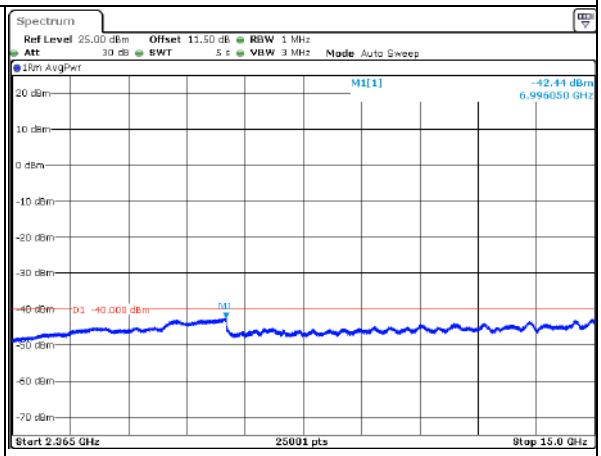
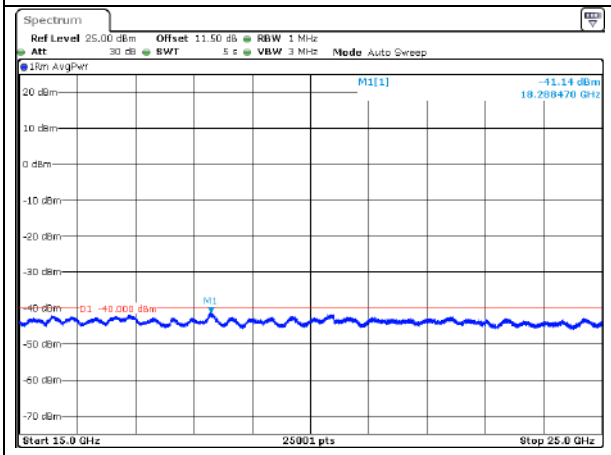
Spurious Emissions at Antenna Terminal	
Channel	**5MHz Bandwidth QPSK**
Highest	  

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

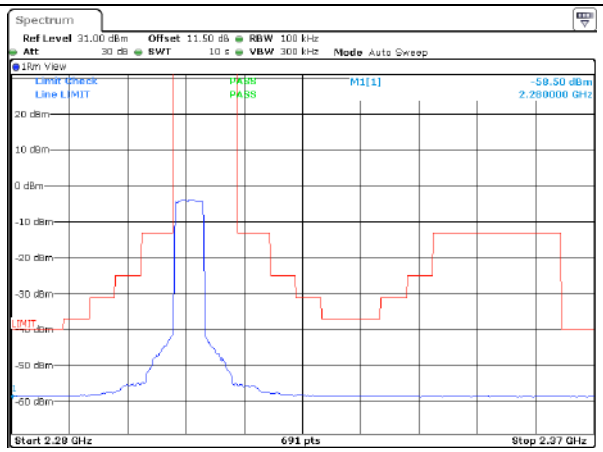
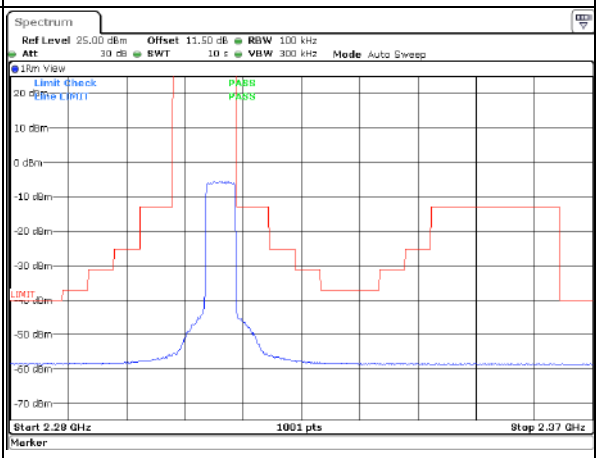
LTE Band 40 Upper:

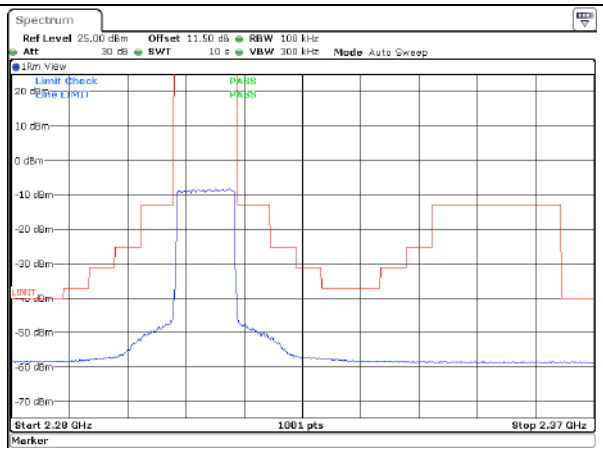
Spurious Emissions at Antenna Terminal	
Channel	**5MHz Bandwidth QPSK**
Lowest	  

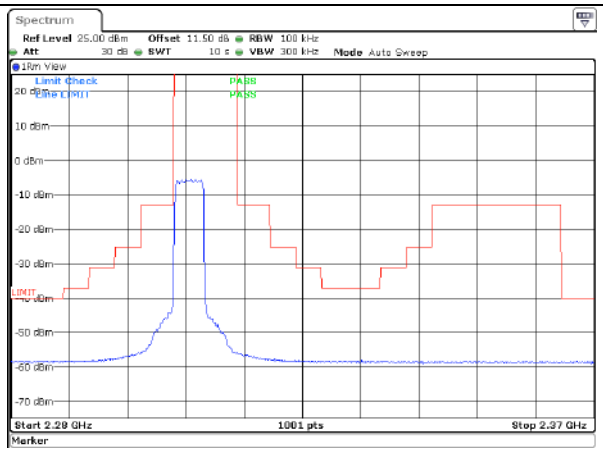
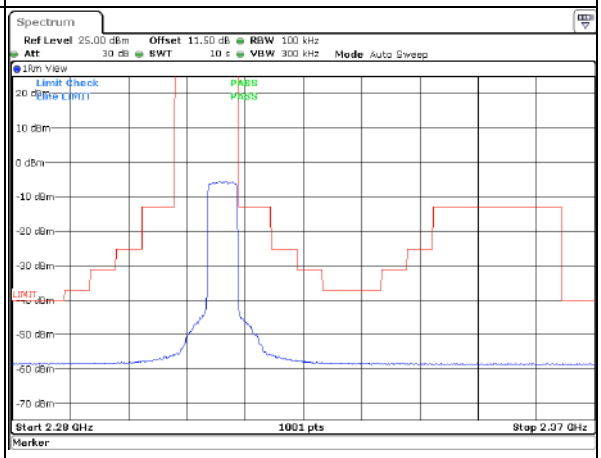
Spurious Emissions at Antenna Terminal	
Channel	**5MHz Bandwidth QPSK**
Highest	  

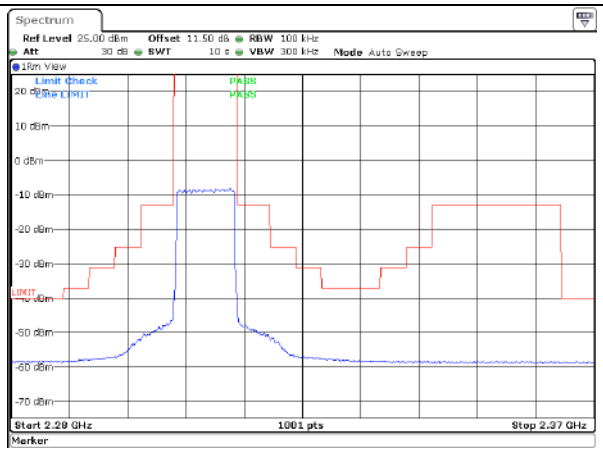
Spurious Emissions at Antenna Terminal	
Channel	**10MHz Bandwidth QPSK**
Middle	  

LTE Band 40 Lower:

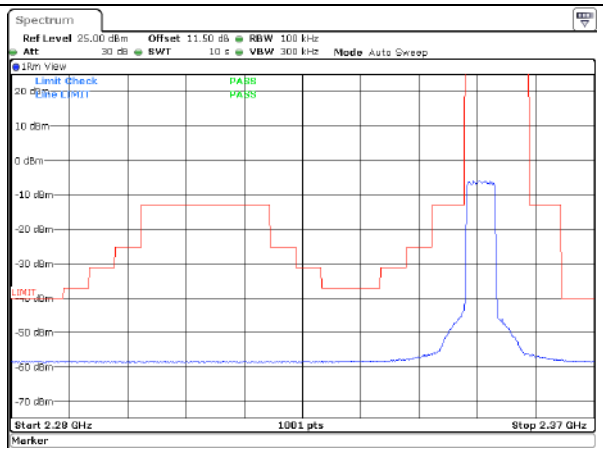
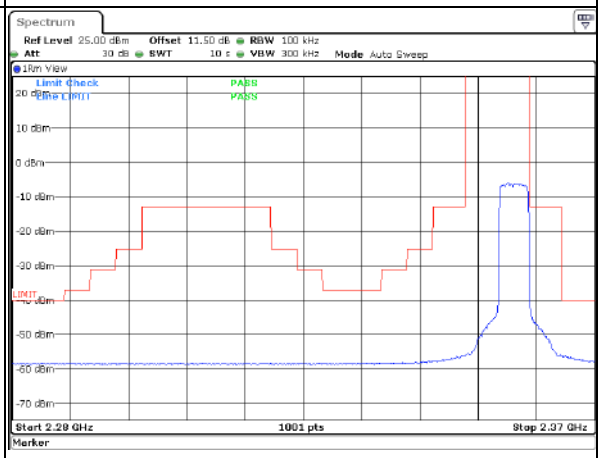
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

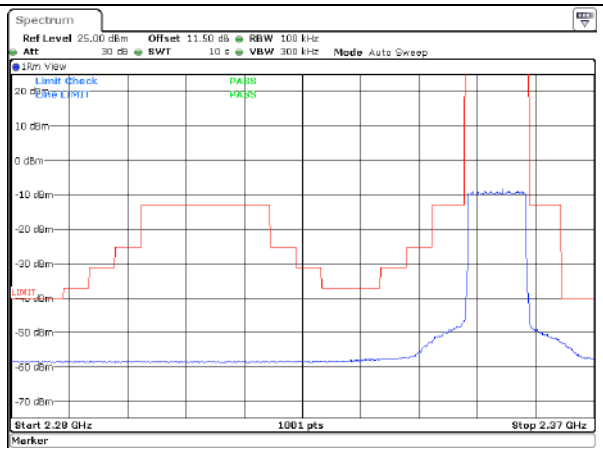
Out of band emission, Band Edge		
Mode	Middle	
QPSK 10MHz		

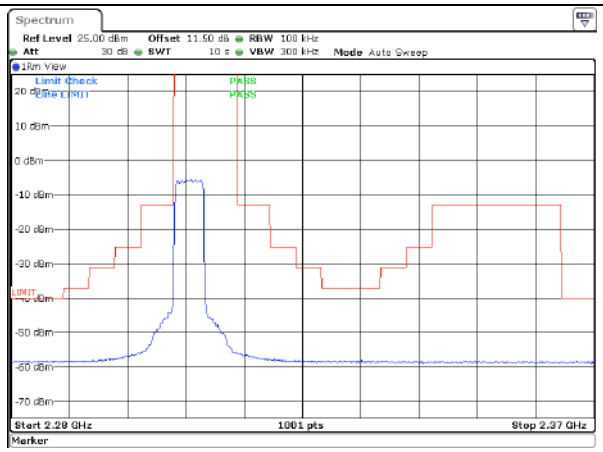
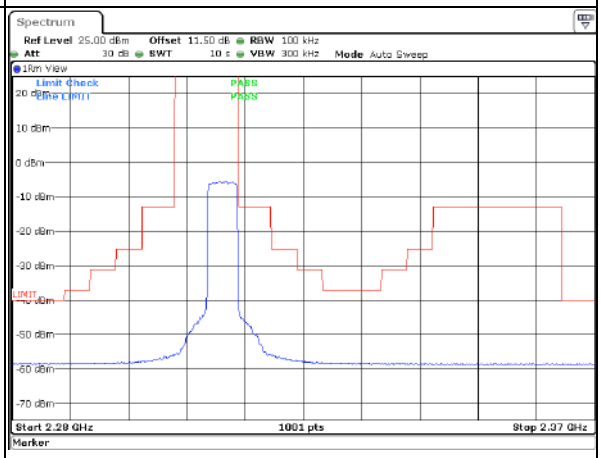
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		

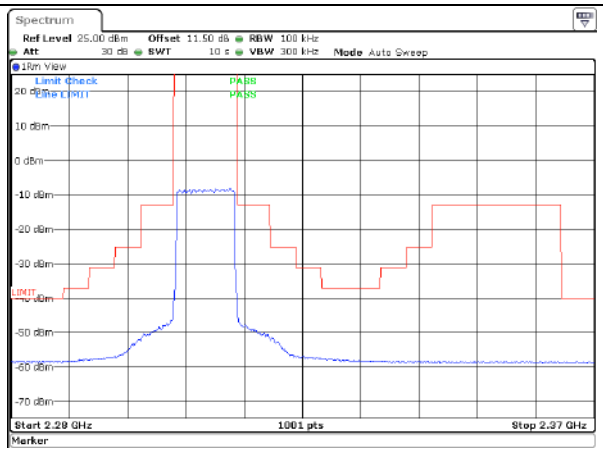
Out of band emission, Band Edge		
Mode	Middle	
16QAM 10MHz		

LTE Band 40 Upper:

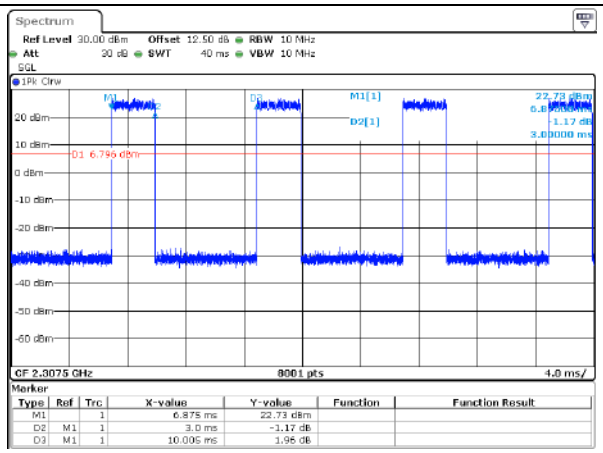
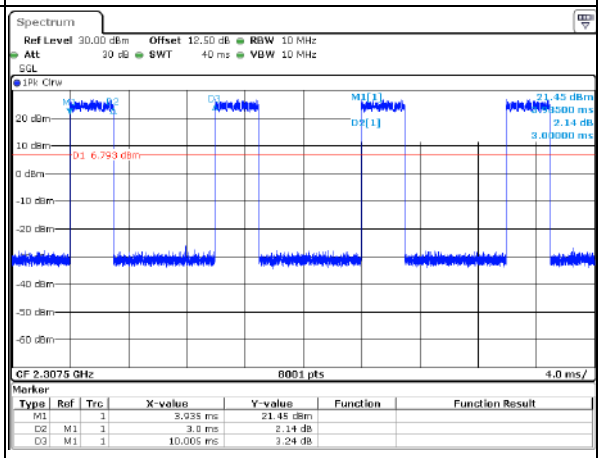
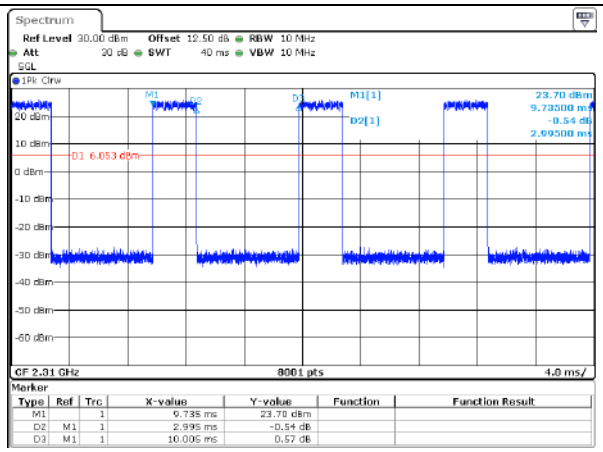
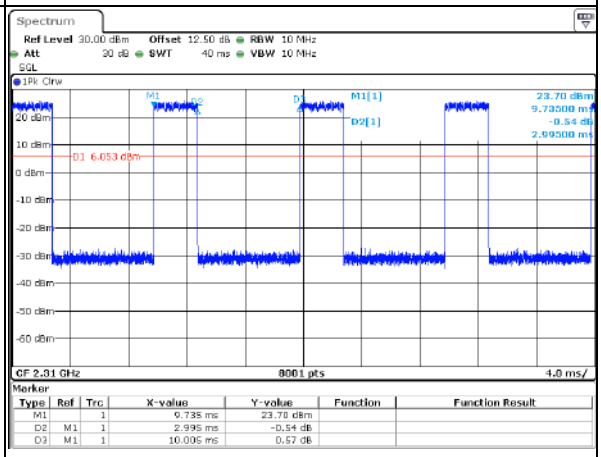
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

Out of band emission, Band Edge		
Mode	Middle	
QPSK 10MHz		

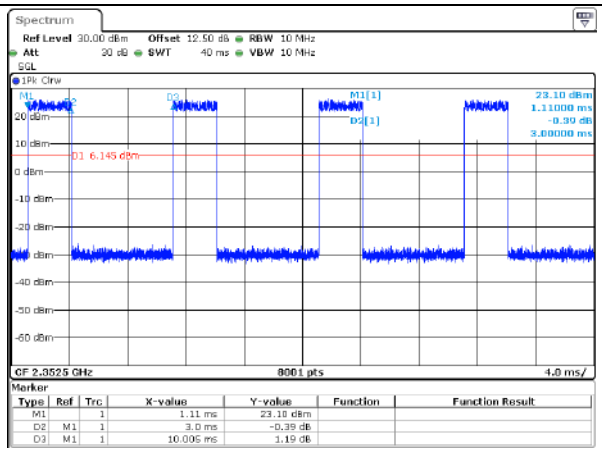
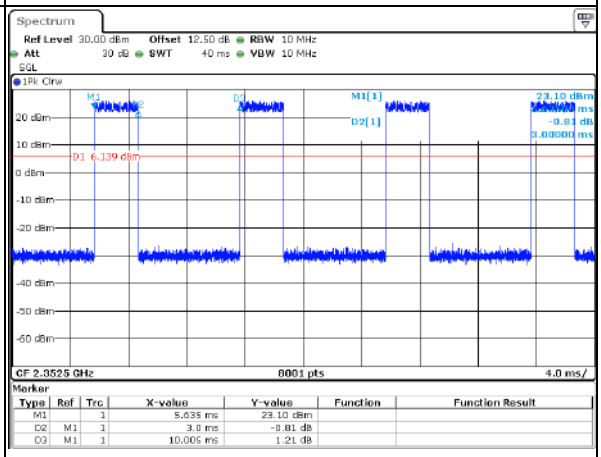
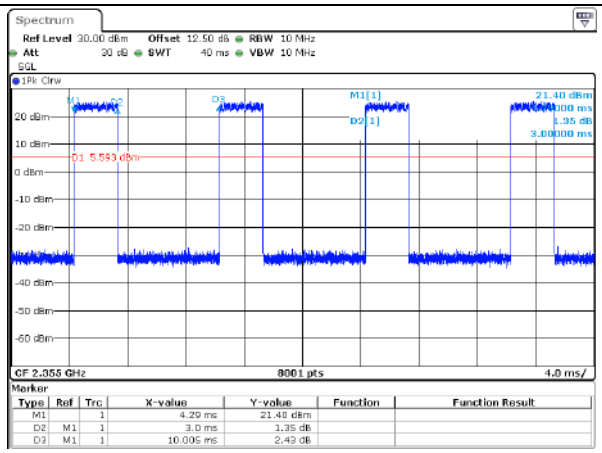
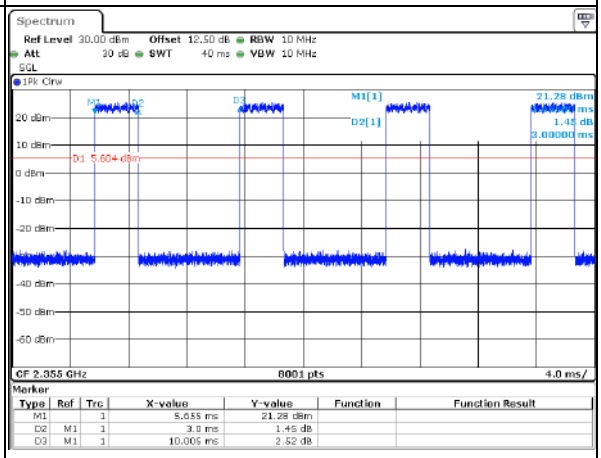
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 5MHz		

Out of band emission, Band Edge		
Mode	Middle	
16QAM 10MHz		

LTE Band 40 Lower:

Duty cycle		
Mode	**QPSK**	**16QAM**
5MHz		
10MHz		

LTE Band 40 Upper:

Duty cycle		
Mode	**QPSK**	**16QAM**
5MHz		
10MHz		

4.17 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	2BYR-5	Test Date:	2023/10/29-2023/10/31
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.5-25.3	Relative Humidity: (%)	60-62	ATM Pressure: (kPa)	100.5-100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	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)
5MHz	2537.5	2595	2652.5
10MHz	2540	2595	2650
15MHz	2542.5	2595	2647.5
20MHz	2545	2595	2645

Test Data:

FCC§2.1046;§ 27.50(h)(2)

RF Output Power:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	21.40	21.50	21.46	21.43	33
	RB1#13	21.45	21.62	21.46		
	RB1#24	21.29	21.63	21.52		
	RB15#0	20.05	19.91	19.94		
	RB15#10	19.99	19.93	19.80		
	RB25#0	19.97	19.88	19.85		
5MHz 16QAM	RB1#0	21.12	20.77	20.06	20.92	33
	RB1#13	21.07	20.86	20.10		
	RB1#24	21.05	21.03	20.07		
	RB15#0	18.93	18.81	18.87		
	RB15#10	18.98	18.95	18.85		
	RB25#0	19.11	19.01	18.97		
10MHz QPSK	RB1#0	21.65	21.52	21.72	21.54	33
	RB1#25	21.60	21.65	21.66		
	RB1#49	21.62	21.74	21.74		
	RB25#0	19.92	19.99	19.88		
	RB25#25	19.86	20.00	19.85		
	RB50#0	19.52	19.59	19.58		
10MHz 16QAM	RB1#0	20.87	20.51	20.59	20.71	33
	RB1#25	20.62	20.58	20.54		
	RB1#49	20.91	20.57	20.67		
	RB25#0	19.18	19.34	18.99		
	RB25#25	19.00	19.30	18.88		
	RB50#0	18.77	18.71	18.61		
15MHz QPSK	RB1#0	21.48	21.70	21.78	**21.67**	33
	RB1#38	21.20	21.79	21.77		
	RB1#74	21.13	21.87	21.84		
	RB36#0	19.93	20.04	19.84		
	RB36#39	19.75	20.12	19.97		
	RB75#0	19.51	19.69	19.55		
15MHz 16QAM	RB1#0	20.72	20.60	21.32	21.12	33
	RB1#38	20.58	20.78	20.85		
	RB1#74	20.45	20.82	21.01		
	RB36#0	18.99	19.16	18.91		
	RB36#39	18.92	19.24	18.89		
	RB75#0	18.61	18.72	18.71		

20MHz QPSK	RB1#0	21.85	21.55	21.54	21.65	33
	RB1#50	21.73	21.59	21.54		
	RB1#99	21.47	21.69	21.48		
	RB50#0	19.90	19.93	19.92		
	RB50#50	19.76	20.01	19.85		
	RB100#0	19.55	19.68	19.51		
20MHz 16QAM	RB1#0	21.37	20.76	20.42	**21.17**	33
	RB1#50	21.24	20.86	20.47		
	RB1#99	21.11	20.91	20.40		
	RB50#0	19.05	19.17	19.11		
	RB50#50	18.85	19.25	19.18		
	RB100#0	18.52	18.76	18.55		
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	6.10	8.28	9.81	13
	RB100#0	6.44	9.60	6.34	13
20MHz 16QAM	RB1#0	7.33	9.71	6.74	13
	RB100#0	9.58	9.71	7.38	13
				Result:	**Pass**

FCC §2.1049, §27.53:Occupied Bandwidth

Operation Mode	99% Occupied Bandwidth (MHz)			26 dB Occupied Bandwidth (MHz)		
	Low Channel	Middle channel	High Channel	Low Channel	Middle Channel	High Channel
5MHz QPSK	4.511	4.511	4.511	5.000	5.120	5.000
5MHz 16QAM	4.511	4.511	4.511	5.120	5.100	5.200
10MHz QPSK	8.942	8.942	8.942	9.800	9.680	9.840
10MHz 16QAM	8.942	8.942	8.942	9.800	9.640	9.800
15MHz QPSK	13.533	13.533	13.473	14.880	15.180	15.060
15MHz 16QAM	13.533	13.533	13.533	15.540	15.000	14.940
20MHz QPSK	17.884	18.044	17.884	19.520	19.440	19.520
20MHz 16QAM	17.964	17.964	17.964	19.440	19.680	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.**

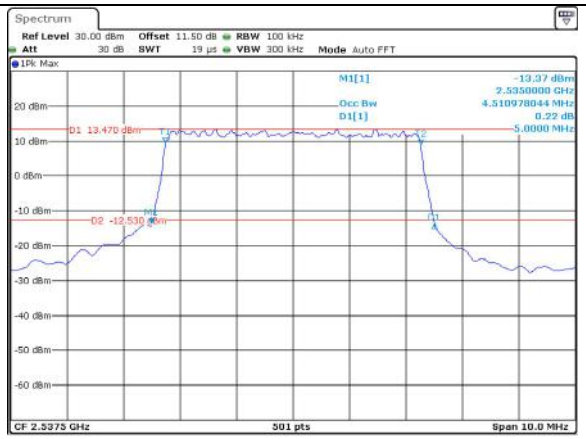
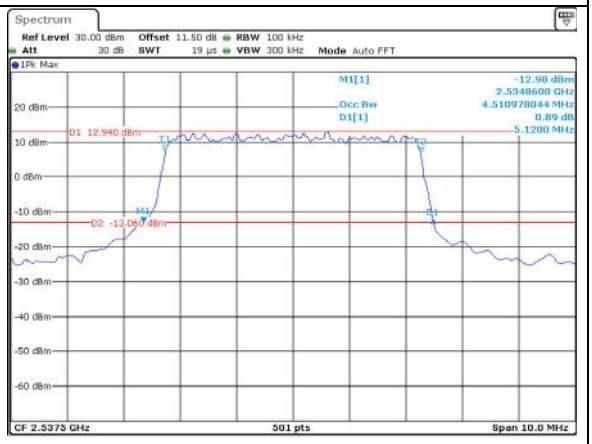
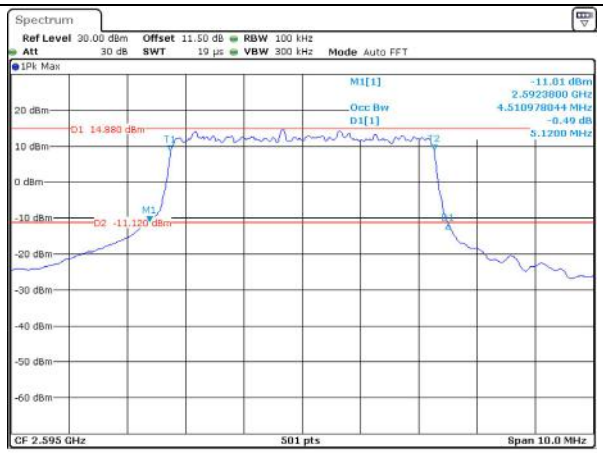
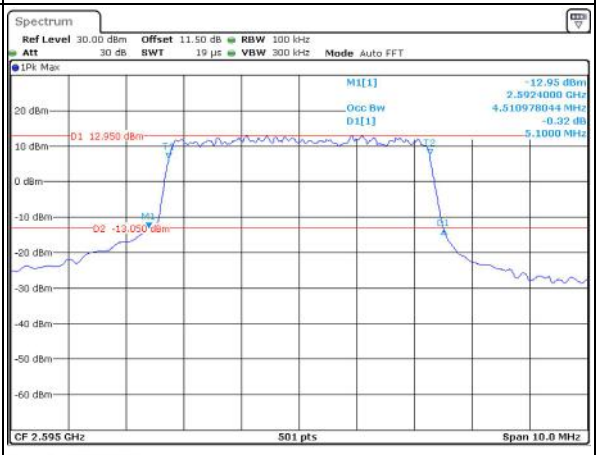
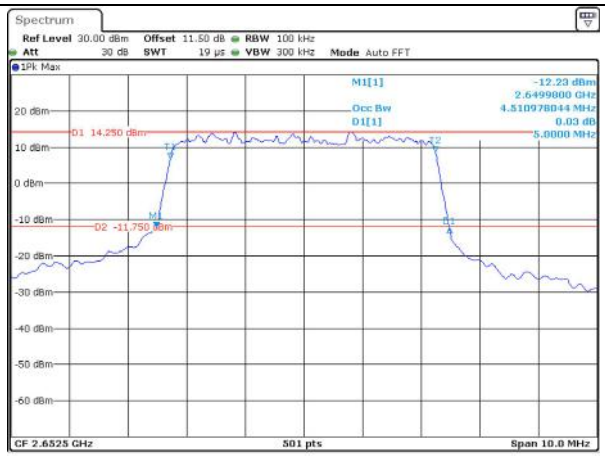
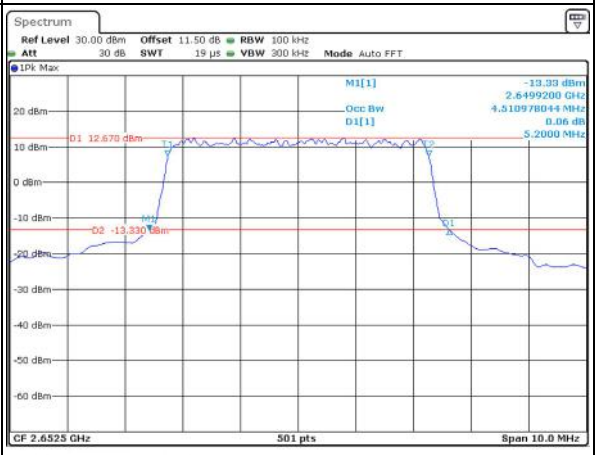
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

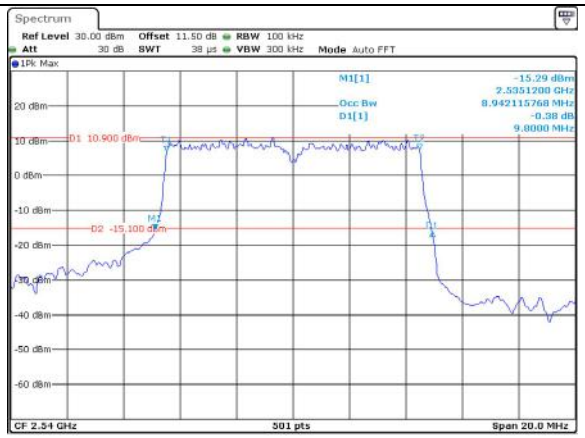
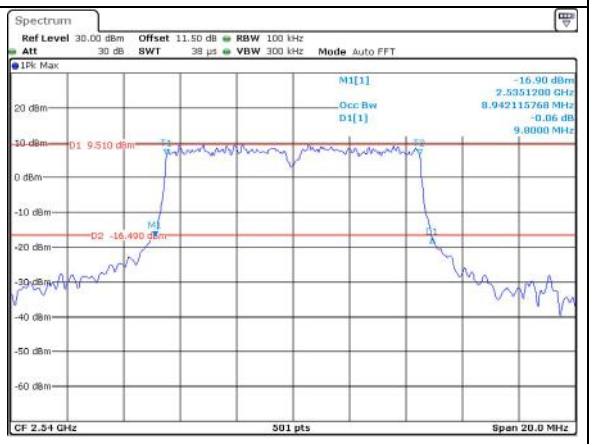
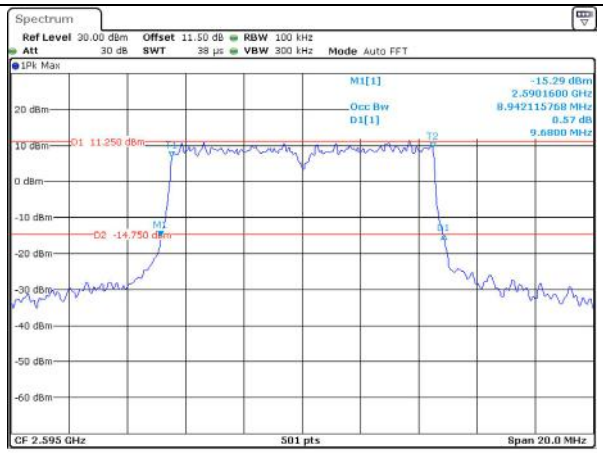
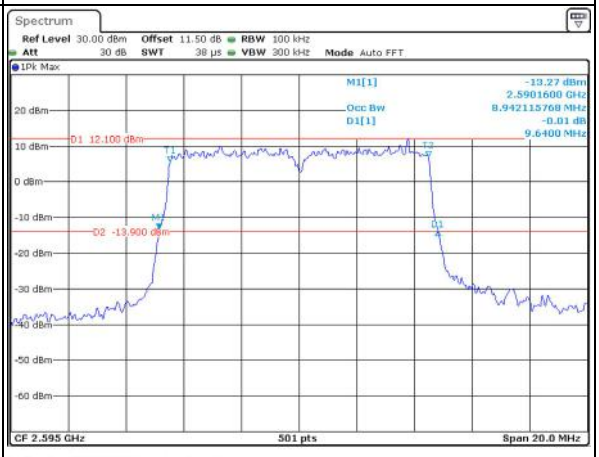
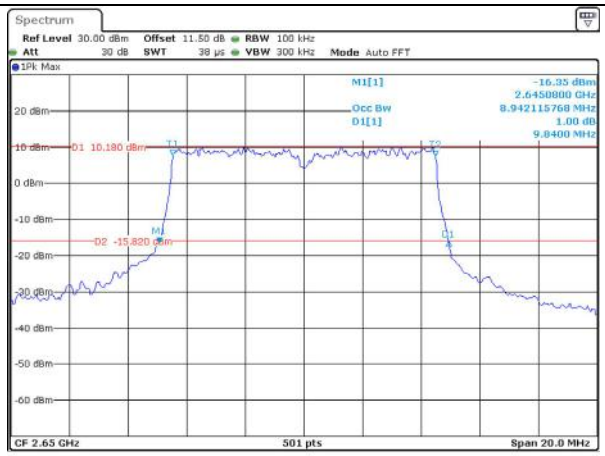
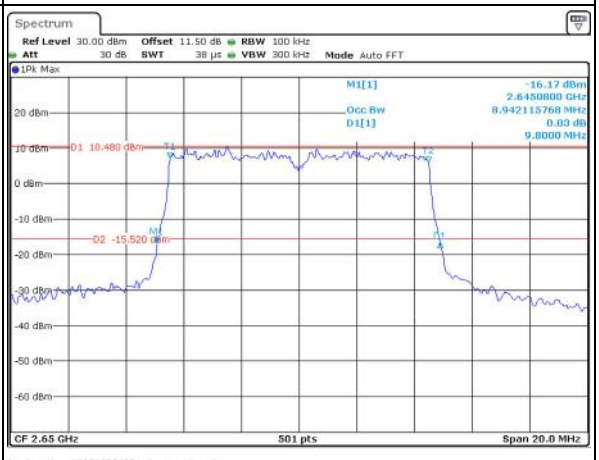
FCC §2.1055, §27.54: Frequency Stability

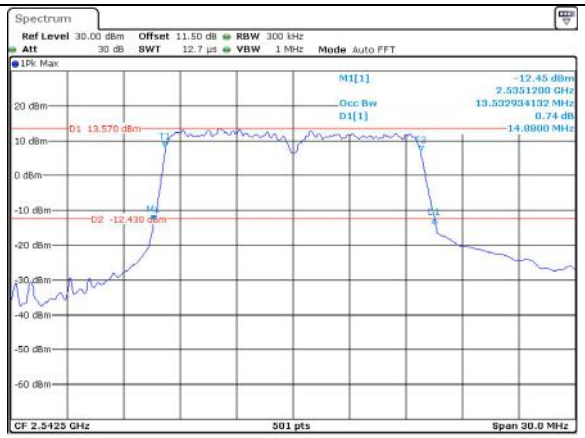
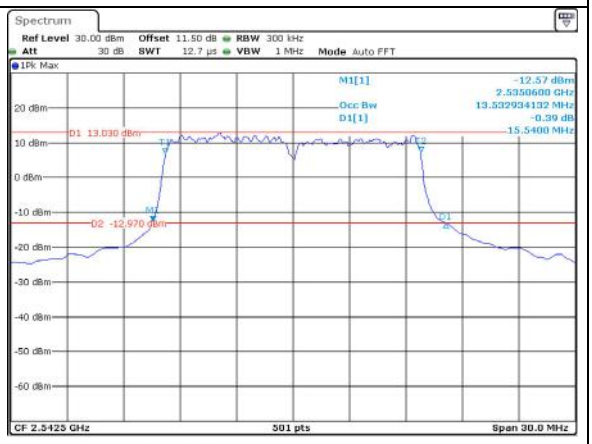
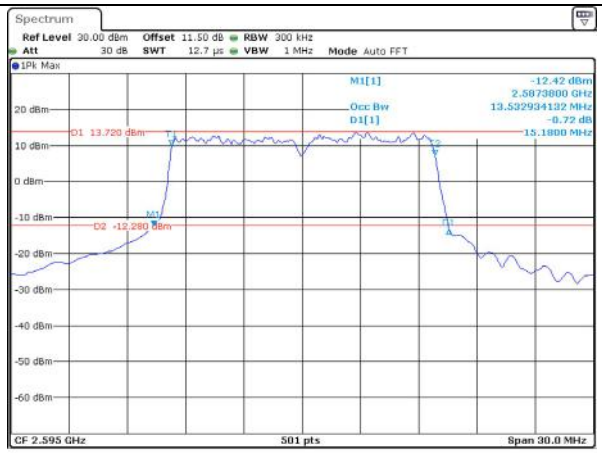
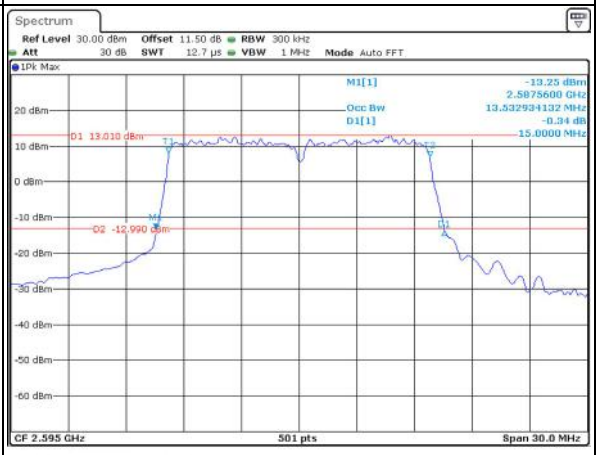
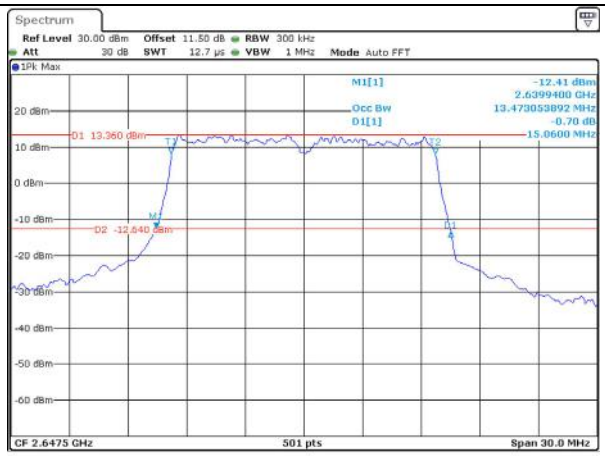
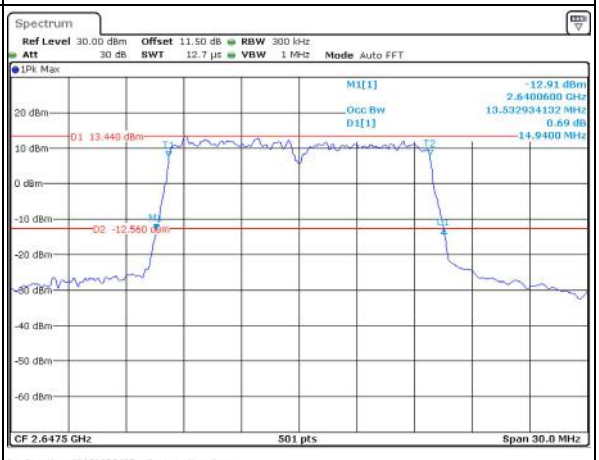
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2535.123	2335	2654.976	2655
	-20	3.85	2535.146	2335	2654.987	2655
	-10	3.85	2535.157	2335	2654.972	2655
	0	3.85	2535.131	2335	2654.982	2655
	10	3.85	2535.127	2335	2654.981	2655
	20	3.85	2535.126	2335	2654.993	2655
	30	3.85	2535.141	2335	2654.986	2655
	40	3.85	2535.144	2335	2654.986	2655
	50	3.85	2535.112	2335	2654.991	2655
Frequency Stability vs. Voltage	20	3.35	2335.167	2335	2654.981	2655
	20	4.4	2335.185	2335	2654.984	2655
					Result:	**Pass**

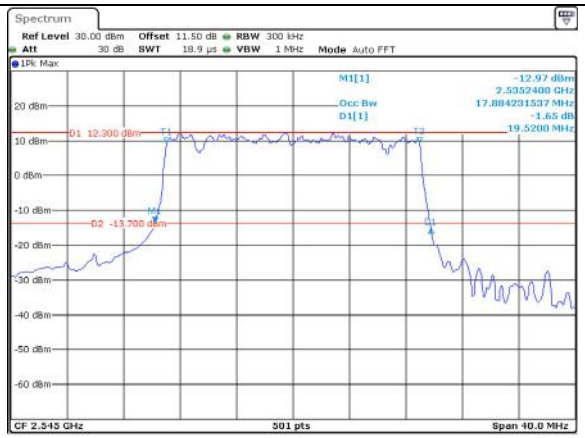
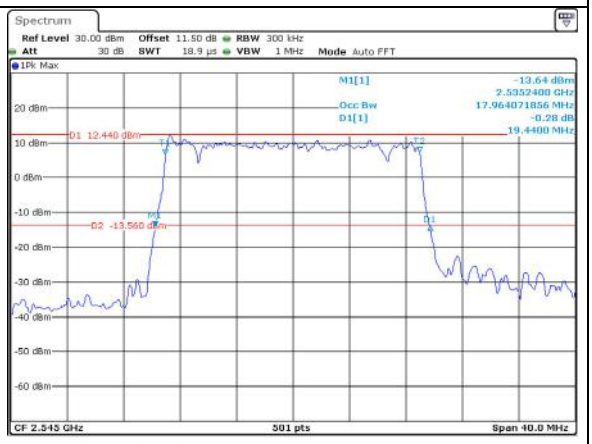
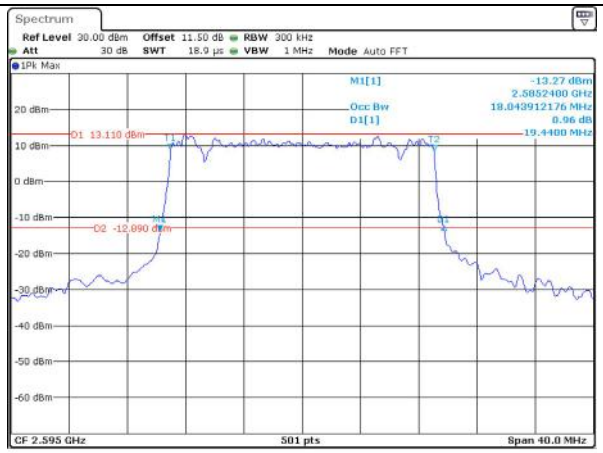
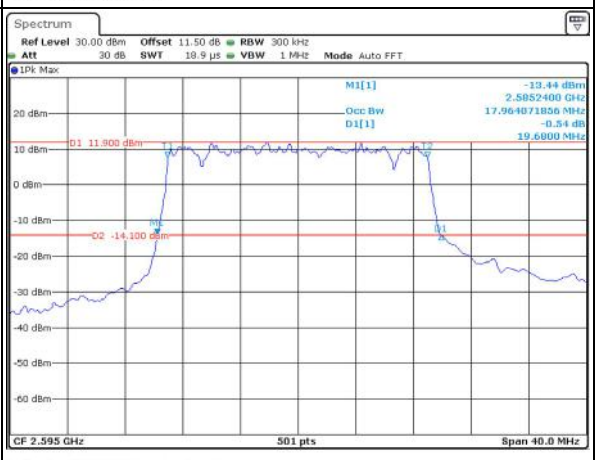
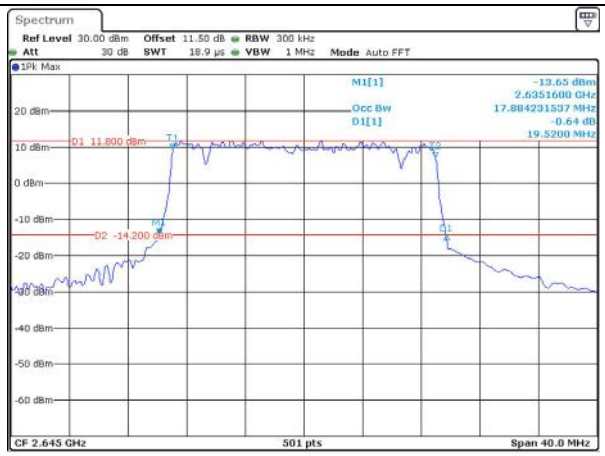
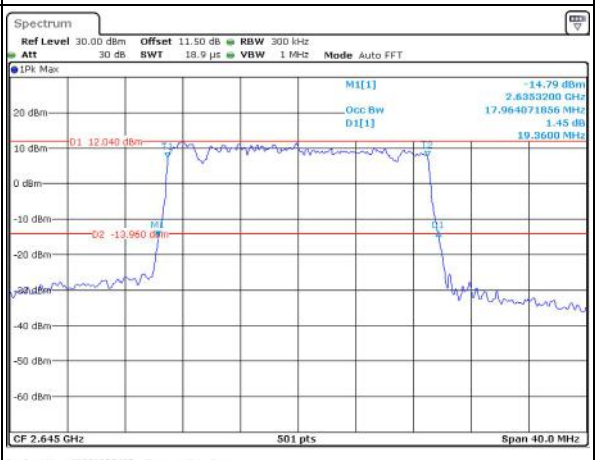
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2335.144	2335	2654.974	2655
	-20	3.85	2335.102	2335	2654.981	2655
	-10	3.85	2335.165	2335	2654.987	2655
	0	3.85	2335.194	2335	2654.994	2655
	10	3.85	2335.183	2335	2654.977	2655
	20	3.85	2335.105	2335	2654.973	2655
	30	3.85	2335.184	2335	2654.990	2655
	40	3.85	2335.113	2335	2654.974	2655
	50	3.85	2335.134	2335	2654.973	2655
Frequency Stability vs. Voltage	20	3.35	2335.157	2335	2654.979	2655
	20	4.4	2335.144	2335	2654.991	2655
					Result:	**Pass**

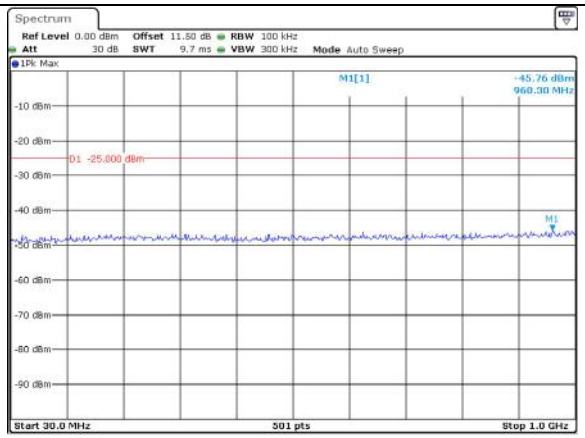
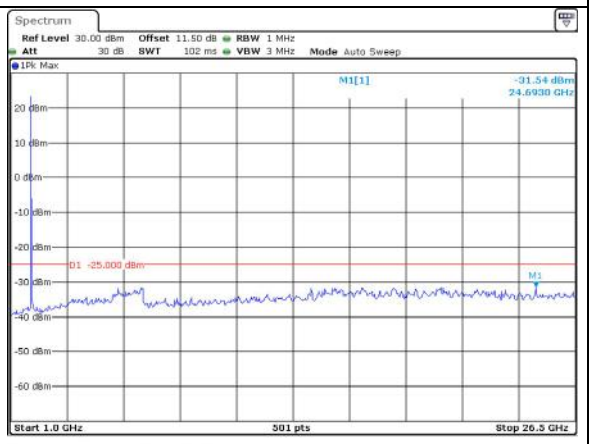
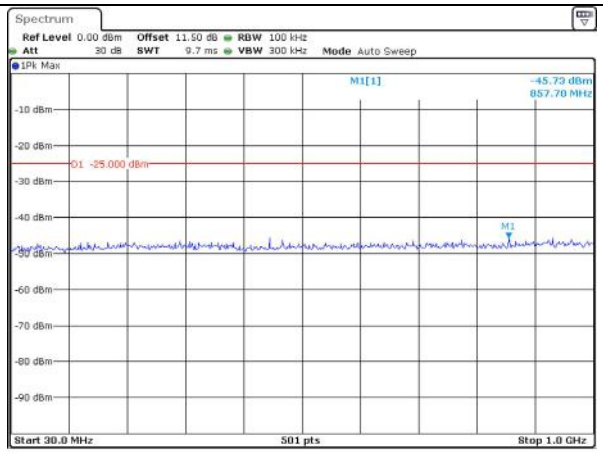
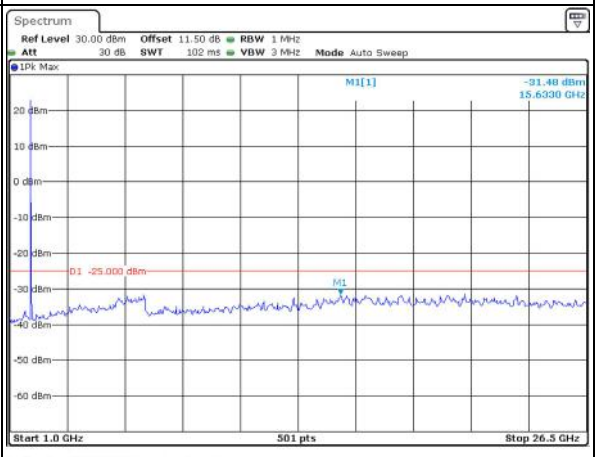
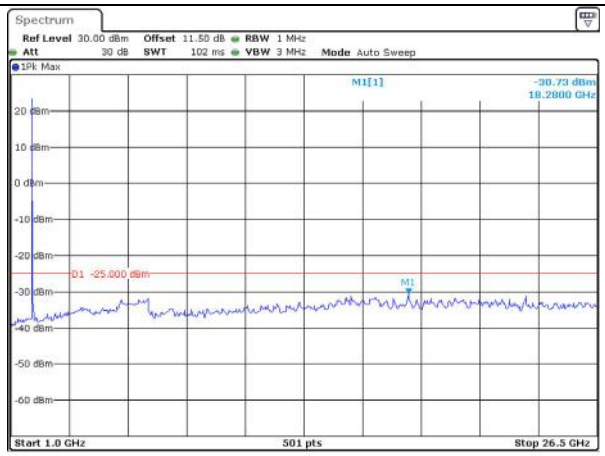
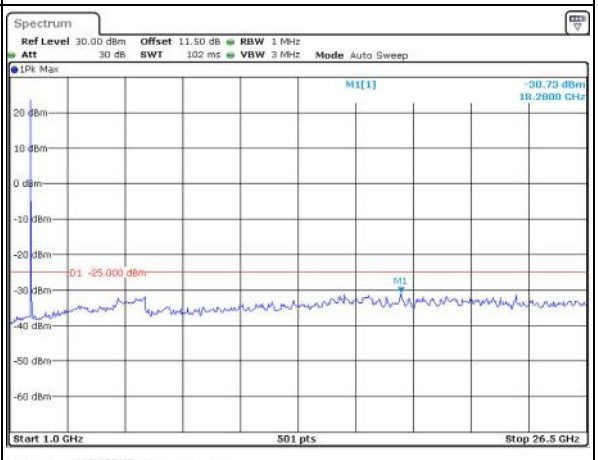
Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

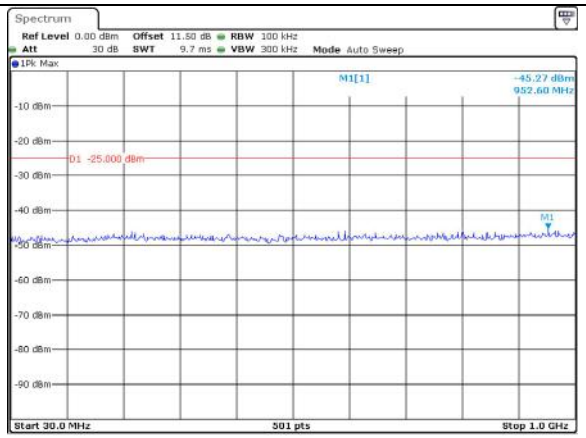
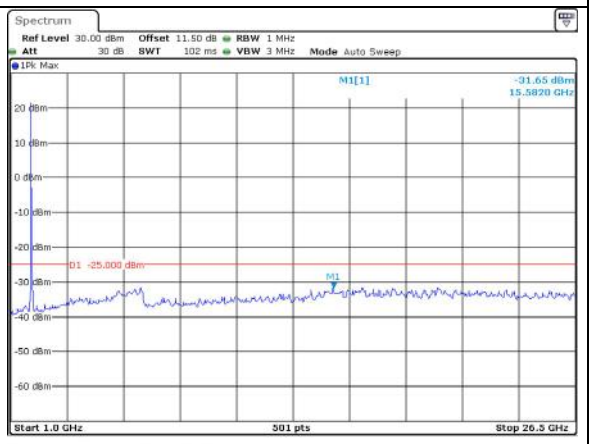
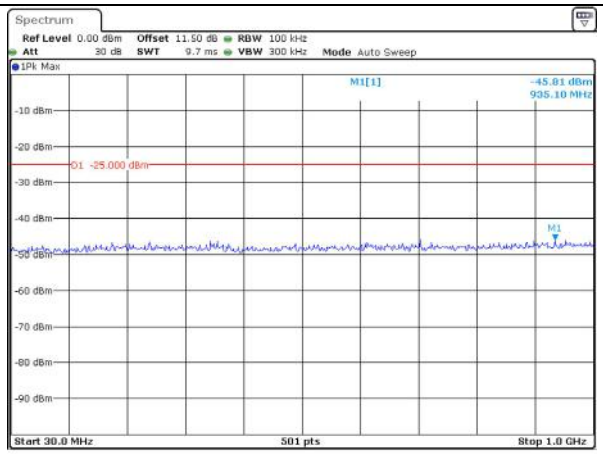
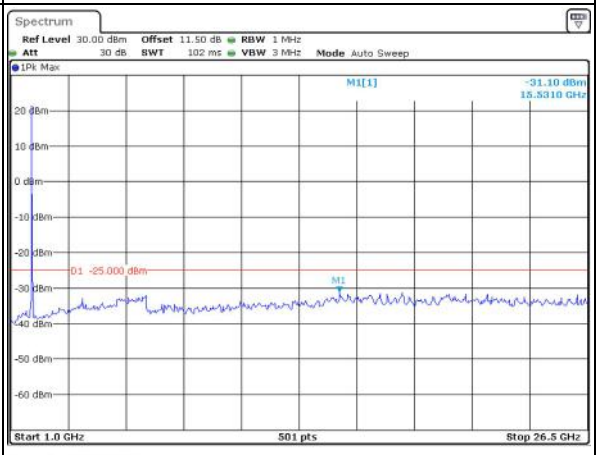
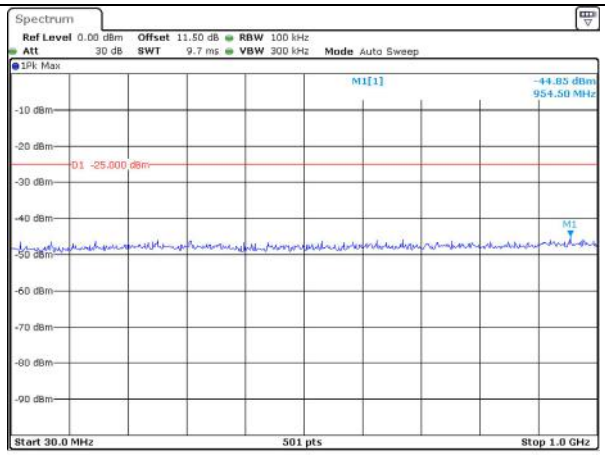
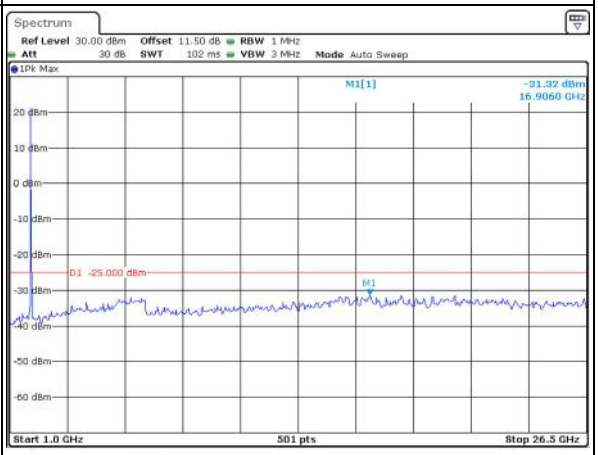
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

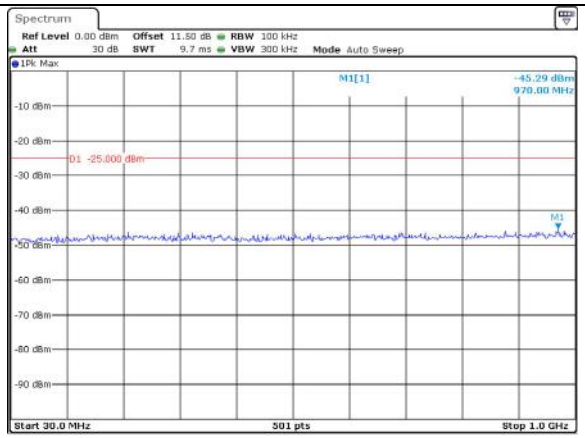
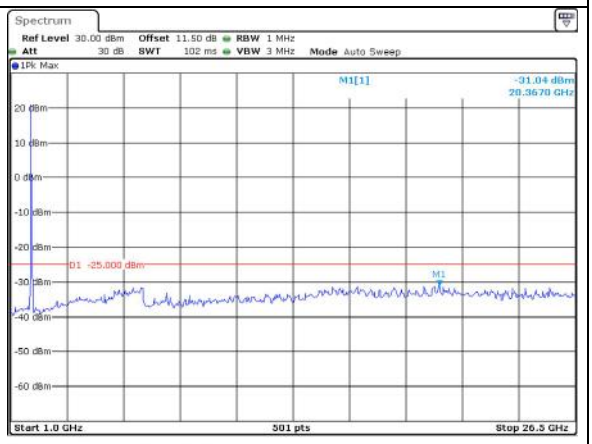
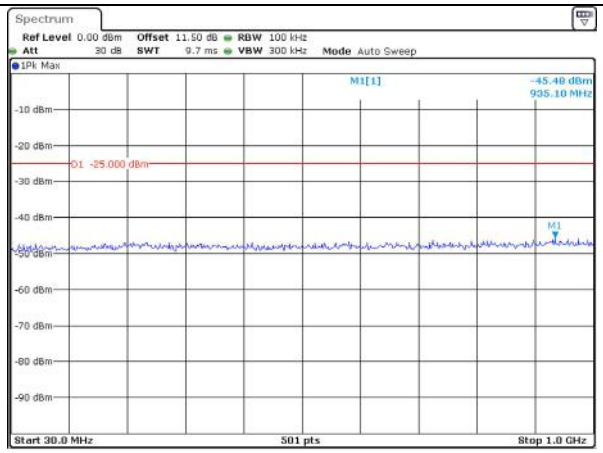
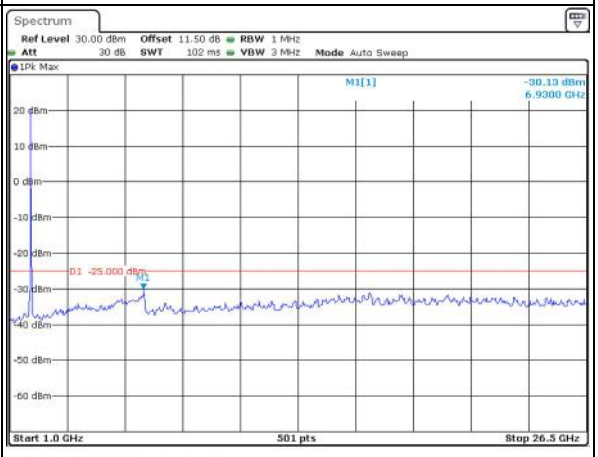
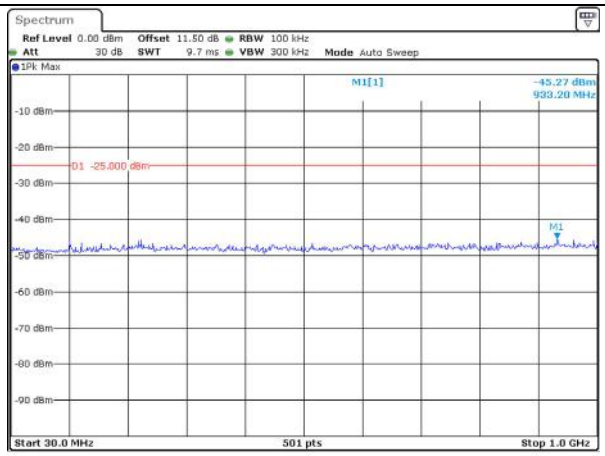
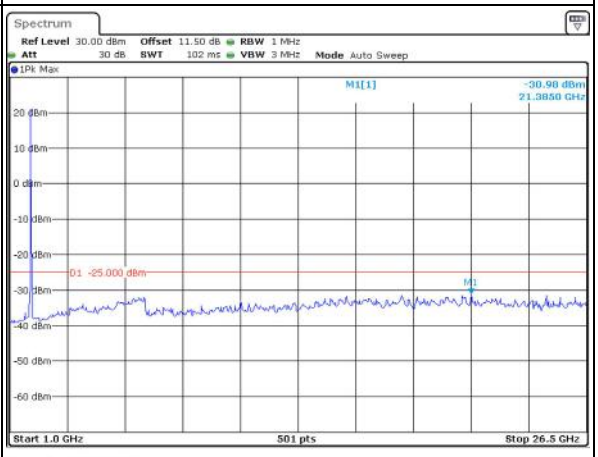
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

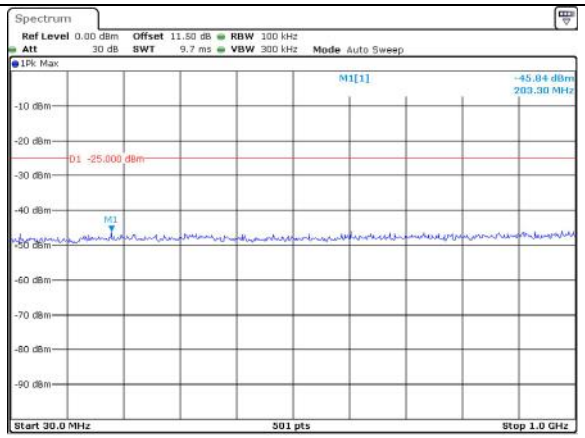
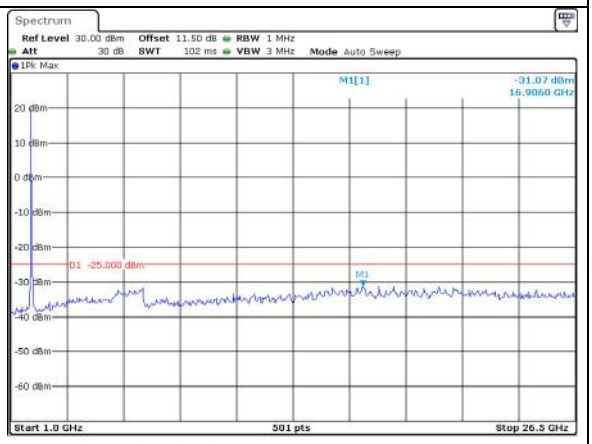
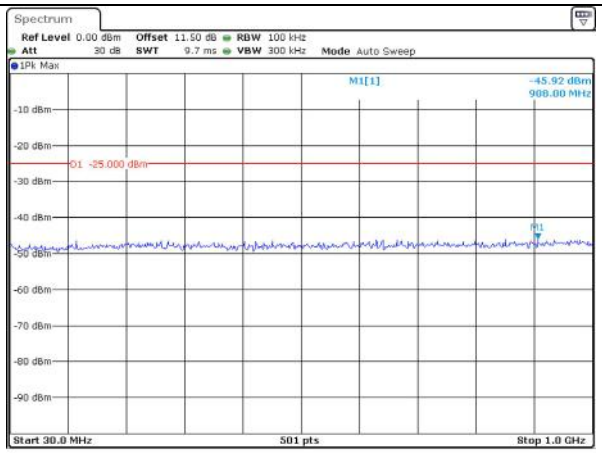
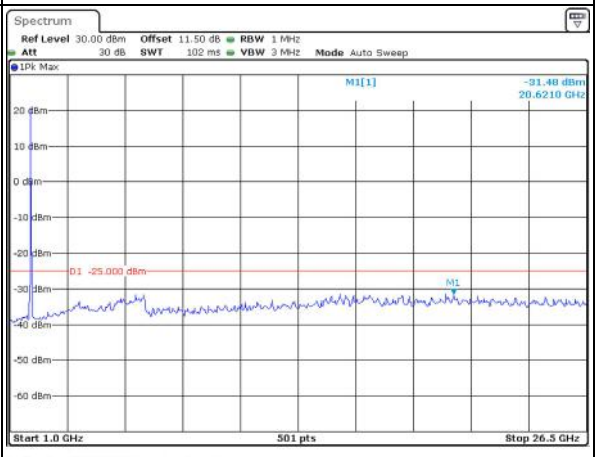
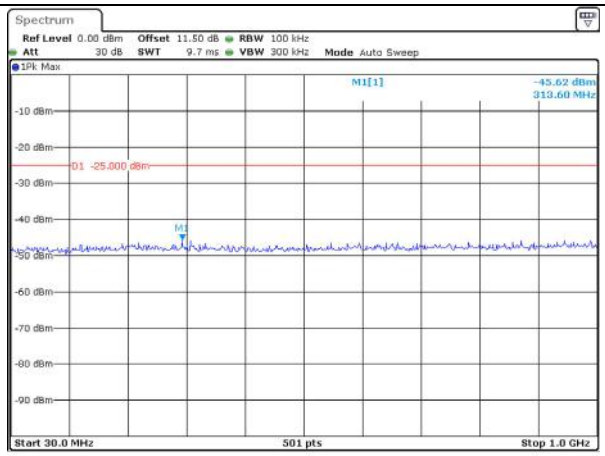
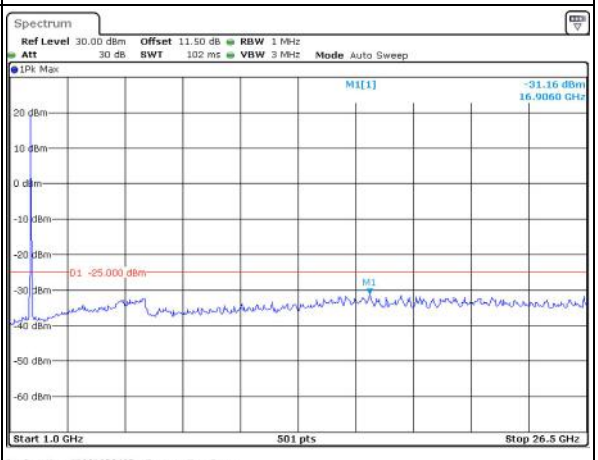
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

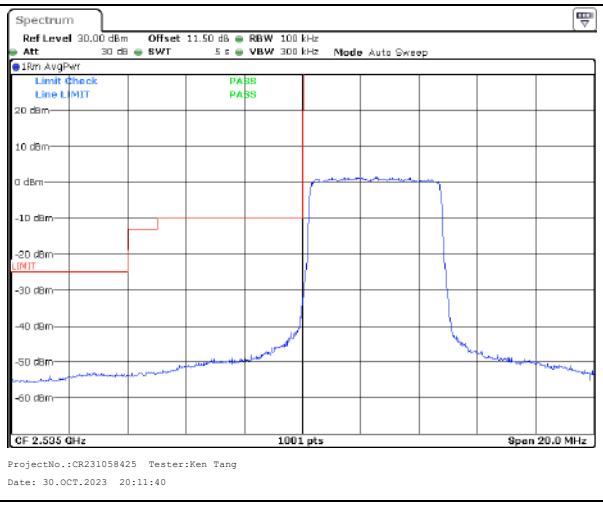
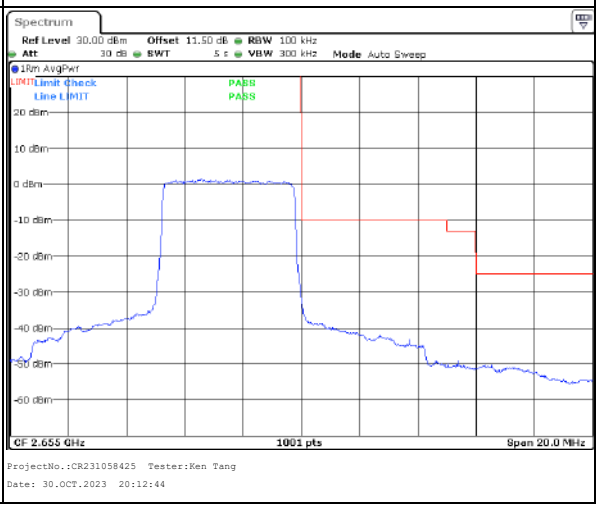
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

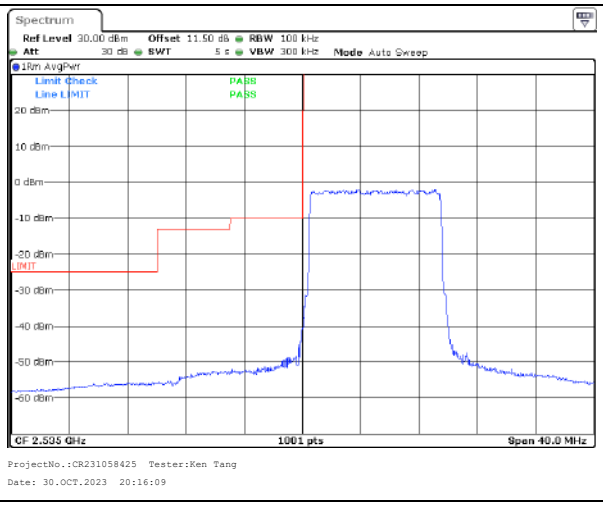
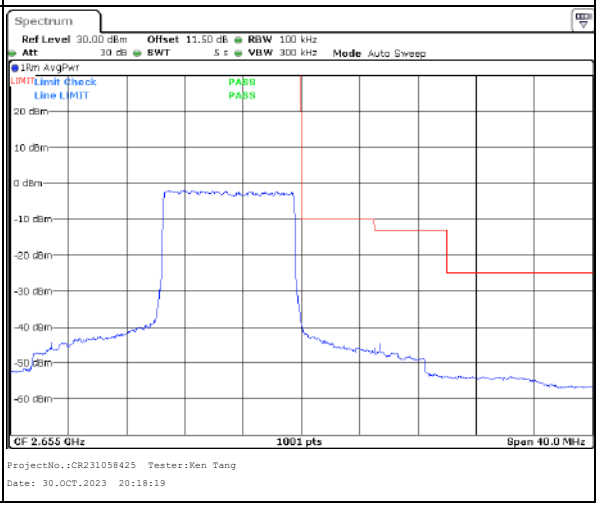
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

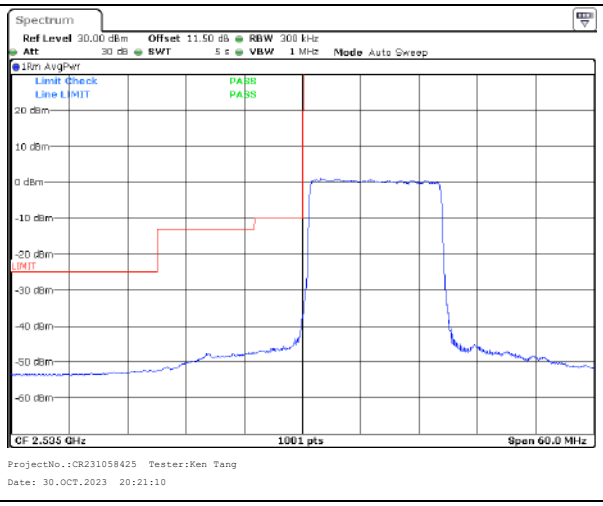
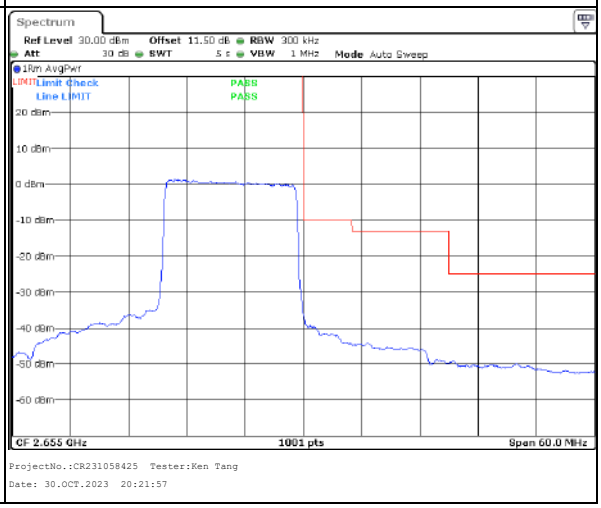
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

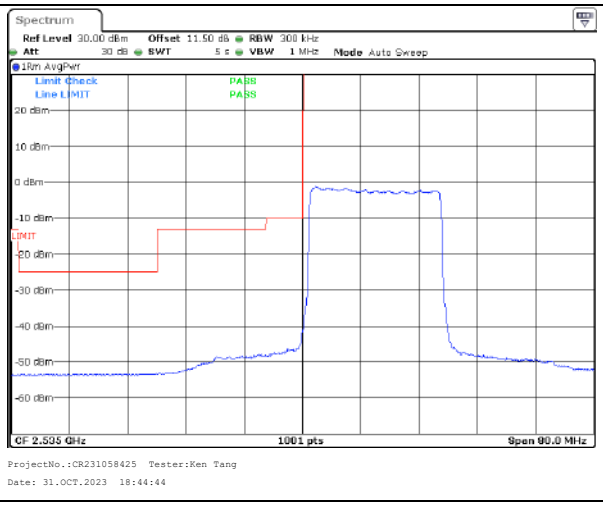
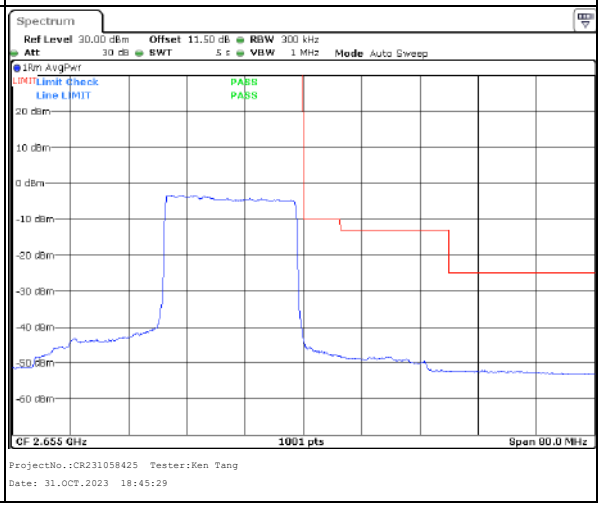
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

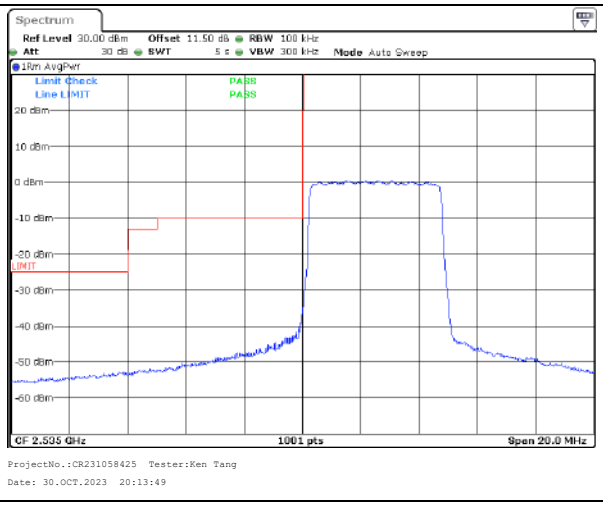
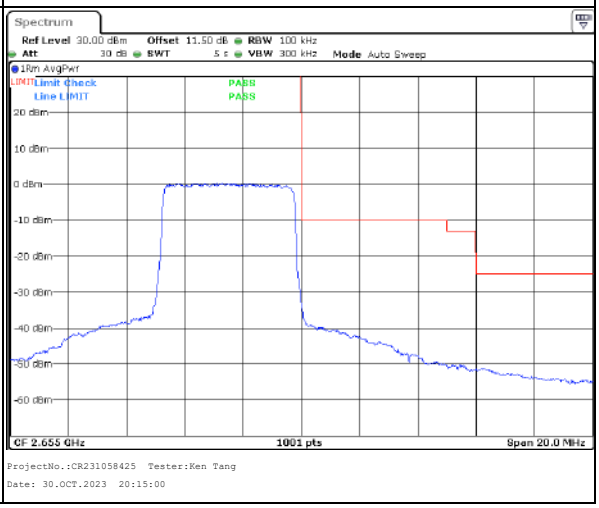
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

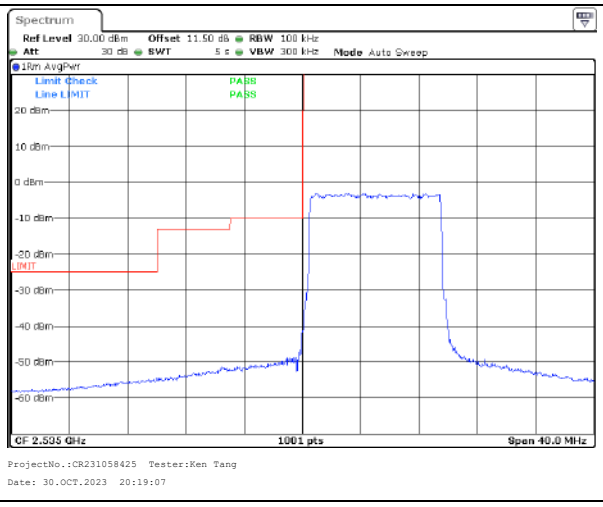
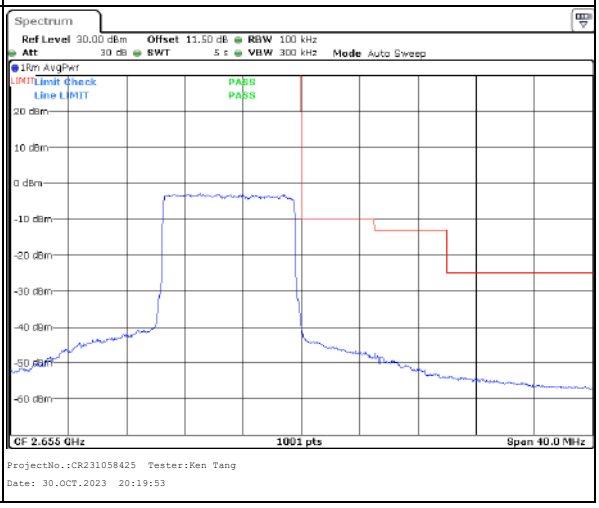
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

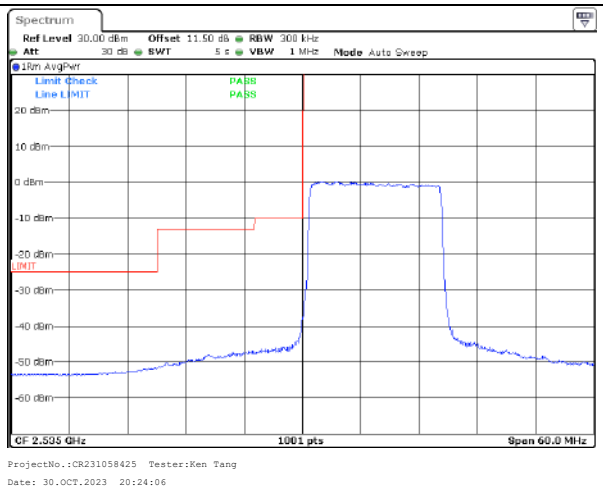
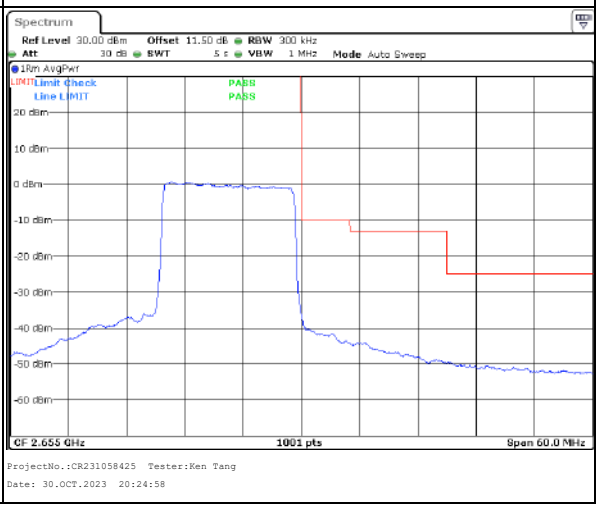
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		

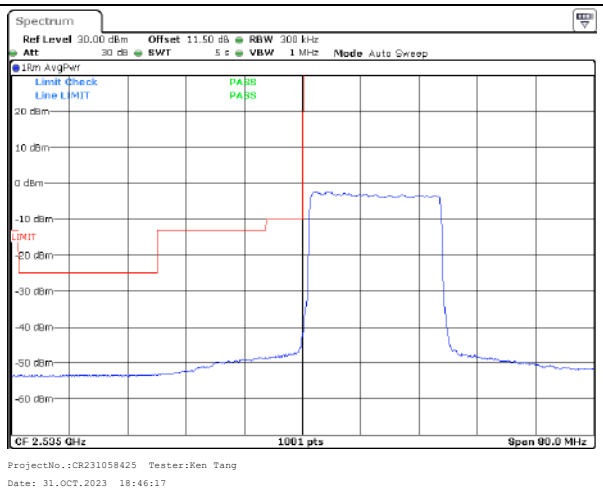
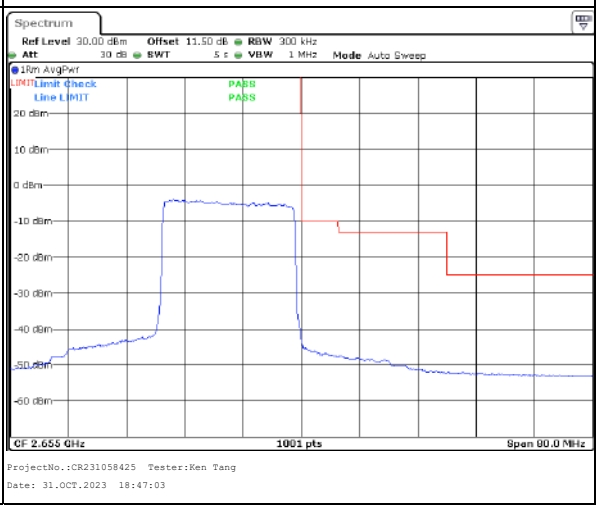
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 15MHz		

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

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

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

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
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:	2BYR-5	Test Date:	2023/10/27-2023/11/6
Test Site:	RF	Test Mode:	Transmitting
Tester:	Ken Tang	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.5-25.3	Relative Humidity: (%)	60-62	ATM Pressure: (kPa)	100.5-100.9

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	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	17.14	16.74	16.55	16.00	30
	RB1#3	17.40	16.94	16.67		
	RB1#5	17.24	16.74	16.48		
	RB3#0	17.30	16.90	16.72		
	RB3#3	17.36	16.89	16.63		
	RB6#0	16.34	15.87	15.64		
1.4MHz 16QAM	RB1#0	16.35	15.77	15.59	15.22	30
	RB1#3	16.62	15.98	15.73		
	RB1#5	16.46	15.79	15.49		
	RB3#0	16.38	16.02	15.91		
	RB3#3	16.46	16.01	15.84		
	RB6#0	15.58	14.92	14.95		
3MHz QPSK	RB1#0	17.21	16.76	16.78	16.09	30
	RB1#8	17.49	16.86	16.73		
	RB1#14	17.45	16.72	16.47		
	RB6#0	16.31	15.97	15.88		
	RB6#9	16.48	15.95	15.71		
	RB15#0	16.44	15.99	15.83		
3MHz 16QAM	RB1#0	16.33	15.91	16.45	15.22	30
	RB1#8	16.62	16.00	16.42		
	RB1#14	16.59	15.87	16.14		
	RB6#0	15.52	15.00	15.23		
	RB6#9	15.70	14.98	15.06		
	RB15#0	15.57	15.11	15.19		
5MHz QPSK	RB1#0	16.96	16.48	16.76	16.31	30
	RB1#13	17.71	16.96	17.03		
	RB1#24	17.28	16.45	16.29		
	RB15#0	16.43	15.98	16.00		
	RB15#10	16.58	15.97	15.84		
	RB25#0	16.47	15.94	15.88		
5MHz 16QAM	RB1#0	16.23	15.71	15.70	15.61	30
	RB1#13	17.01	16.18	15.98		
	RB1#24	16.58	15.67	15.25		
	RB15#0	15.58	15.07	15.32		
	RB15#10	15.74	15.06	15.15		
	RB25#0	15.64	15.02	15.21		

10MHz QPSK	RB1#0	17.01	16.74	17.21	16.47	30
	RB1#25	17.57	16.93	17.20		
	RB1#49	17.87	17.25	17.02		
	RB25#0	16.42	16.07	16.40		
	RB25#25	16.77	16.31	16.28		
	RB50#0	16.60	16.20	16.33		
10MHz 16QAM	RB1#0	16.14	15.87	16.87	15.63	30
	RB1#25	16.72	16.07	16.87		
	RB1#49	17.03	16.40	16.71		
	RB25#0	15.70	15.20	15.71		
	RB25#25	16.06	15.44	15.60		
	RB50#0	15.86	15.26	15.59		
15MHz QPSK	RB1#0	17.30	16.95	17.42	16.25	30
	RB1#38	17.41	16.90	17.12		
	RB1#74	17.65	17.02	16.62		
	RB36#0	16.54	16.20	16.52		
	RB36#39	16.72	16.21	16.13		
	RB75#0	16.63	16.21	16.33		
15MHz 16QAM	RB1#0	16.42	16.51	17.12	15.72	30
	RB1#38	16.60	16.49	16.89		
	RB1#74	16.83	16.59	16.34		
	RB36#0	15.84	15.22	15.66		
	RB36#39	16.01	15.24	15.29		
	RB75#0	15.92	15.22	15.48		
20MHz QPSK	RB1#0	17.59	17.53	18.04	**16.64**	30
	RB1#50	17.41	16.90	17.29		
	RB1#99	18.04	17.59	17.10		
	RB50#0	16.65	16.46	16.82		
	RB50#50	16.80	16.46	16.42		
	RB100#0	16.72	16.45	16.61		
20MHz 16QAM	RB1#0	16.80	17.23	17.38	**15.98**	30
	RB1#50	16.73	16.62	16.72		
	RB1#99	17.27	17.29	16.45		
	RB50#0	15.75	15.48	15.94		
	RB50#50	15.90	15.49	15.54		
	RB100#0	15.81	15.42	15.76		
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	8.38	9.97	7.6	13
	RB100#0	8.09	9.30	8.14	13
20MHz 16QAM	RB1#0	6.20	6.00	9.93	13
	RB100#0	6.90	6.61	8.71	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	1.102	1.096	1.102	1.260	1.254	1.254
1.4MHz 16QAM	1.096	1.102	1.09	1.254	1.266	1.25
3MHz QPSK	2.695	2.695	2.695	3.000	3.024	3.012
3MHz 16QAM	2.683	2.695	2.695	3.000	3.024	3.000
5MHz QPSK	4.511	4.511	4.531	5.000	5.020	4.980
5MHz 16QAM	4.511	4.511	4.511	5.000	5.000	5.000
10MHz QPSK	8.942	8.942	8.942	9.320	9.800	9.760
10MHz 16QAM	8.942	8.942	8.942	9.840	9.840	9.720
15MHz QPSK	13.473	13.533	13.533	15.060	14.940	14.940
15MHz 16QAM	13.533	13.533	13.533	15.060	15.000	14.940
20MHz QPSK	17.884	18.044	17.964	19.520	19.680	19.520
20MHz 16QAM	17.964	17.964	18.044	19.600	19.440	19.600
Note: The test plots please refer to the Plots of Occupied Bandwidth						

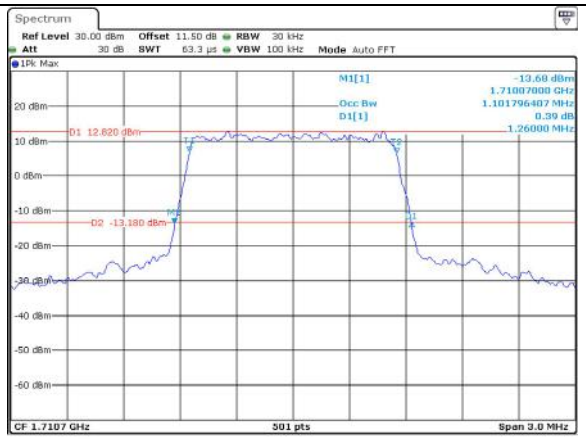
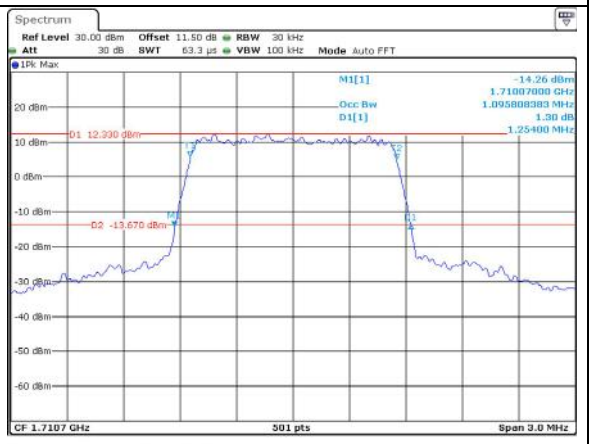
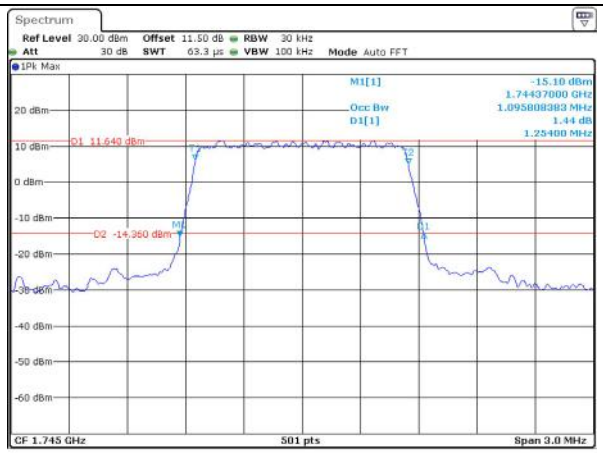
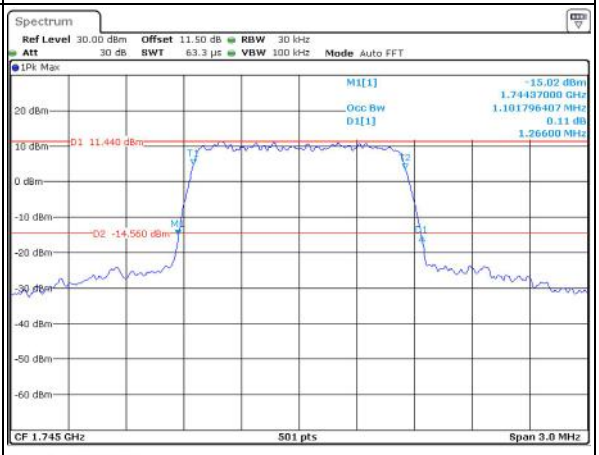
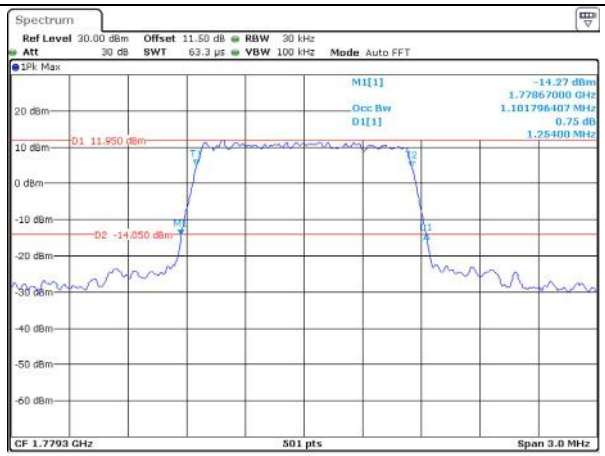
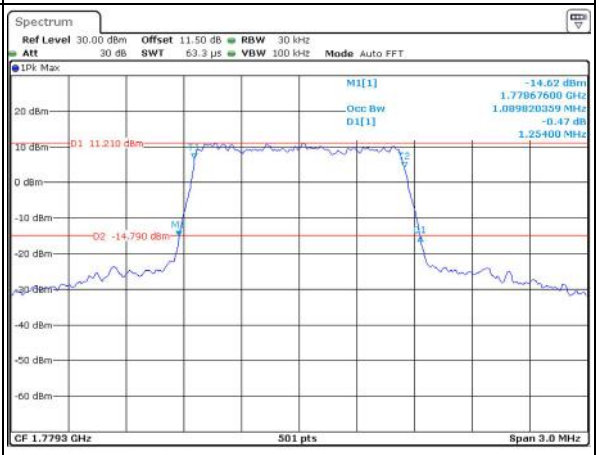
FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

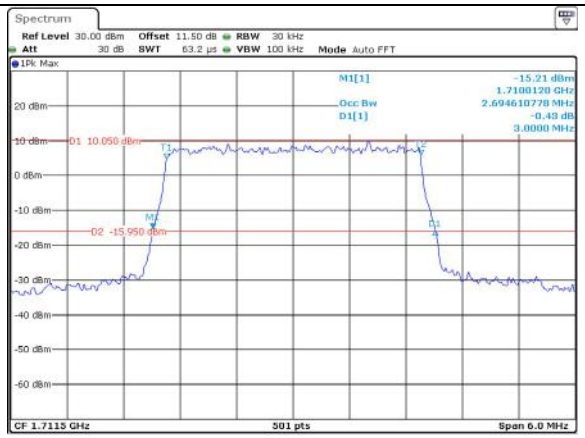
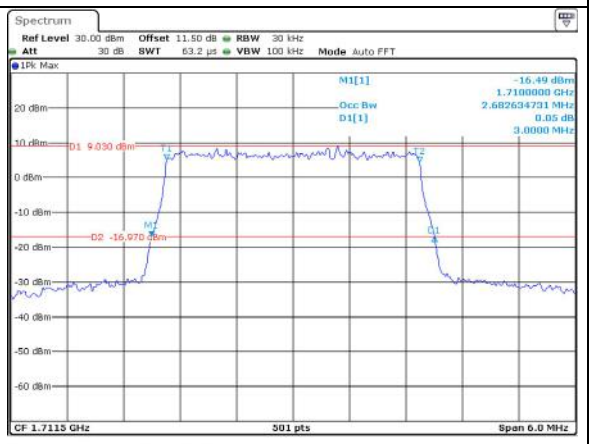
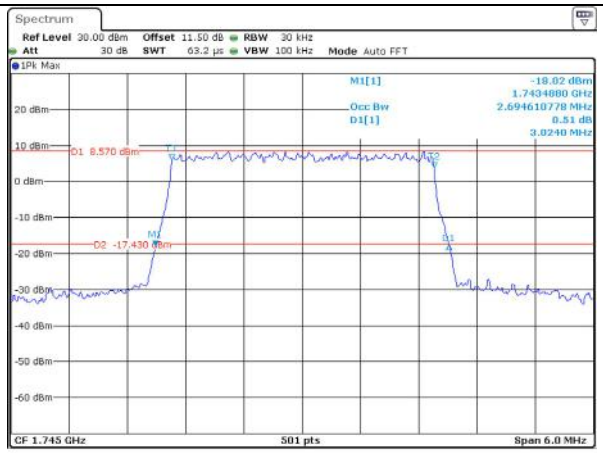
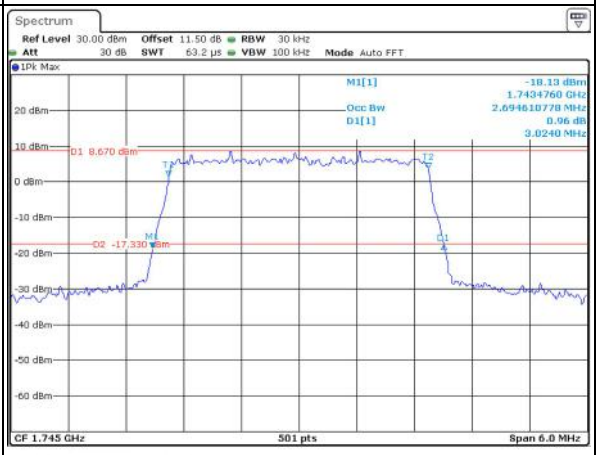
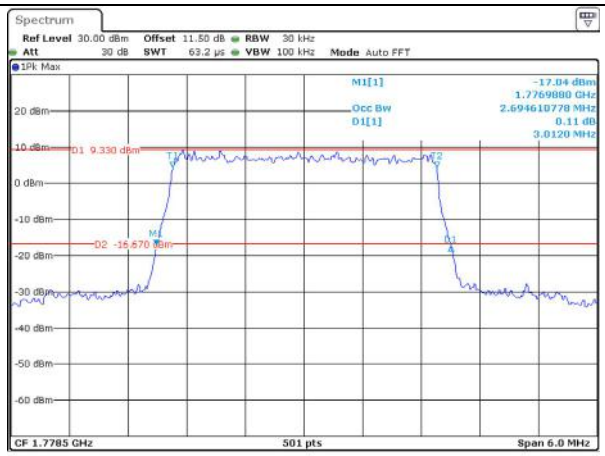
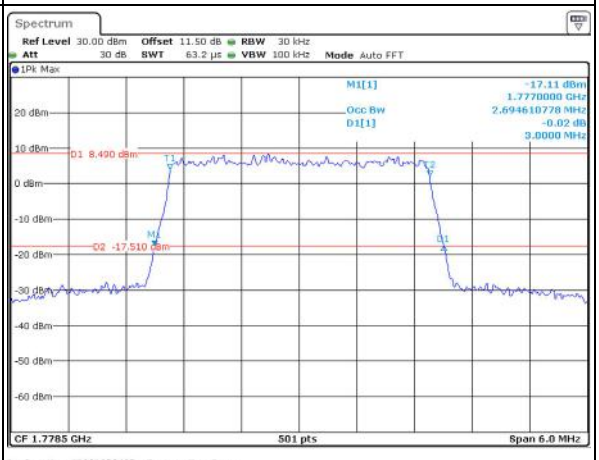
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

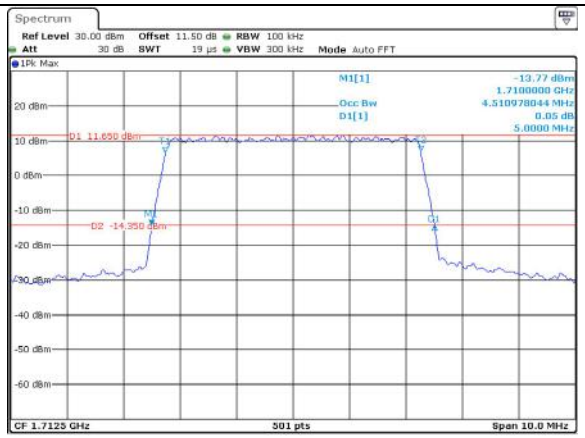
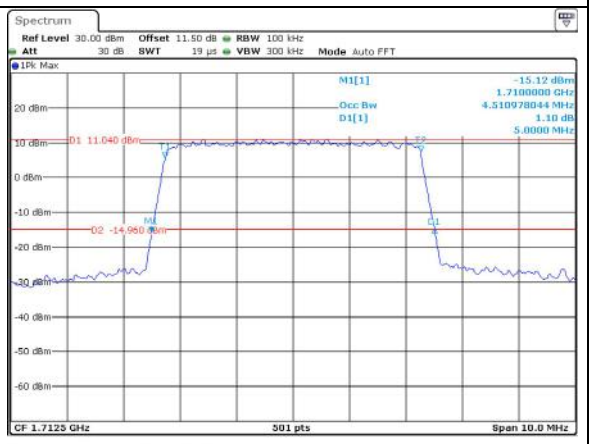
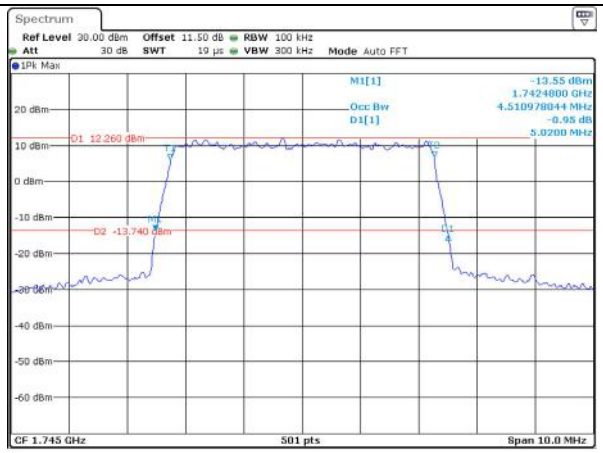
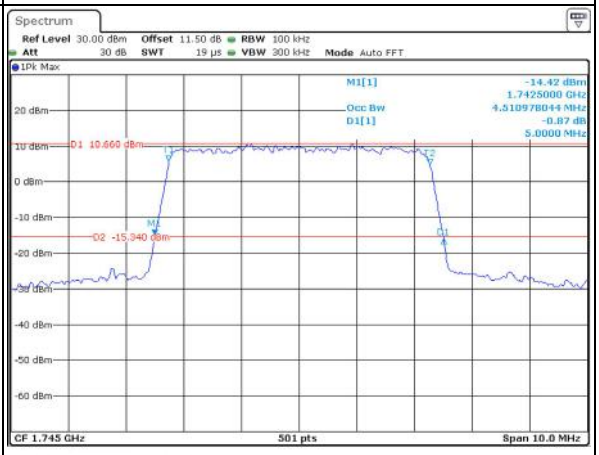
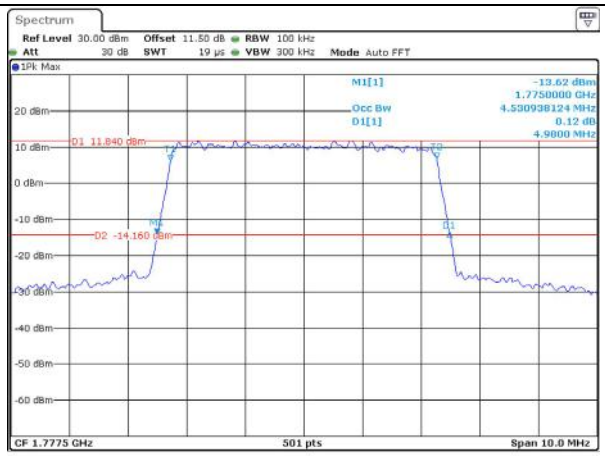
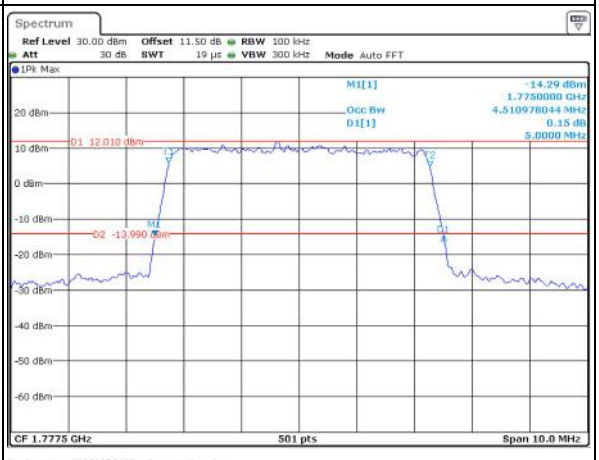
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2535.011	2535.000	2654.985	2655.000
	-20	3.85	2535.013	2535.000	2654.989	2655.000
	-10	3.85	2535.015	2535.000	2654.984	2655.000
	0	3.85	2535.011	2535.000	2654.983	2655.000
	10	3.85	2535.014	2535.000	2654.987	2655.000
	20	3.85	2535.013	2535.000	2654.985	2655.000
	30	3.85	2535.018	2535.000	2654.986	2655.000
	40	3.85	2535.019	2535.000	2654.981	2655.000
	50	3.85	2535.015	2535.000	2654.992	2655.000
Frequency Stability vs. Voltage	20	3.35	2535.012	2535.000	2654.984	2655.000
	20	4.4	2535.018	2535.000	2654.991	2655.000
					Result:	**Pass**

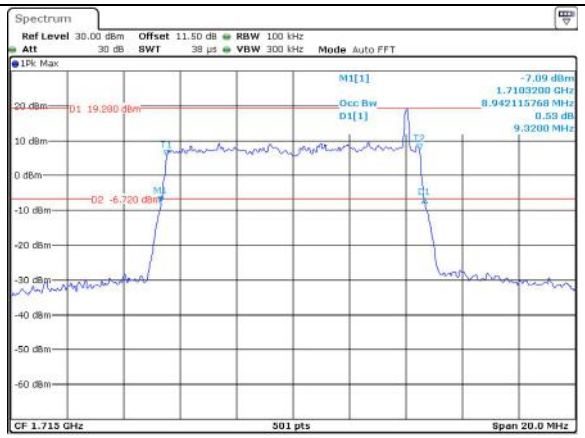
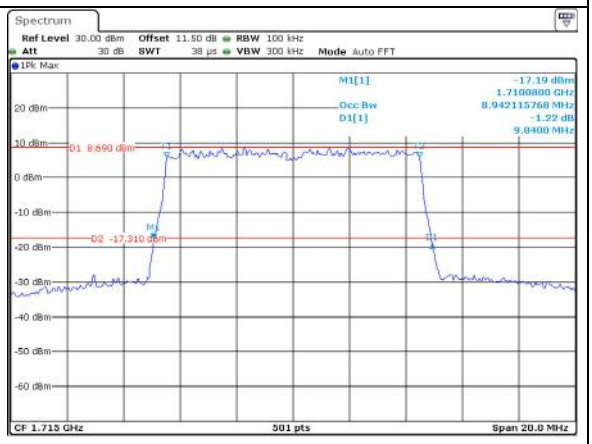
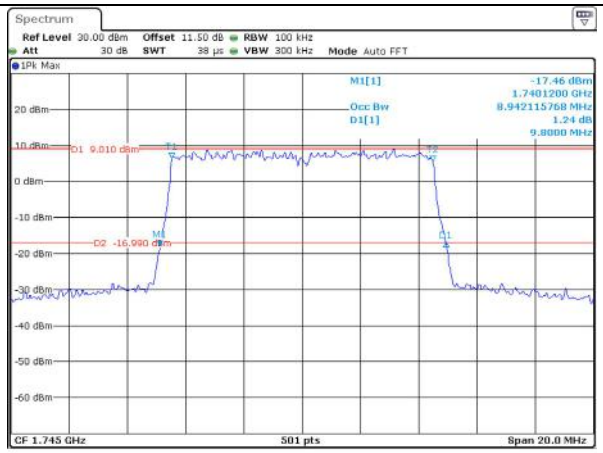
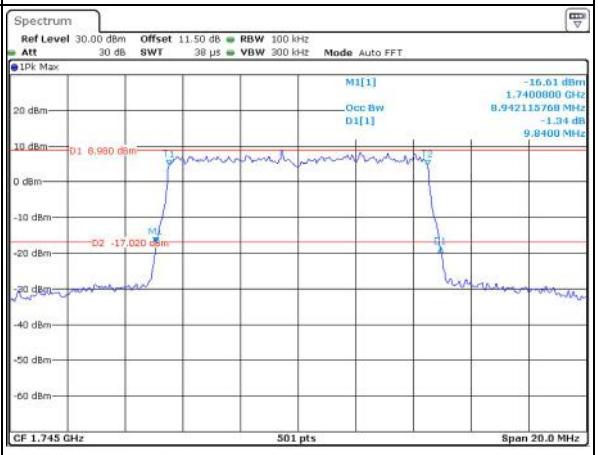
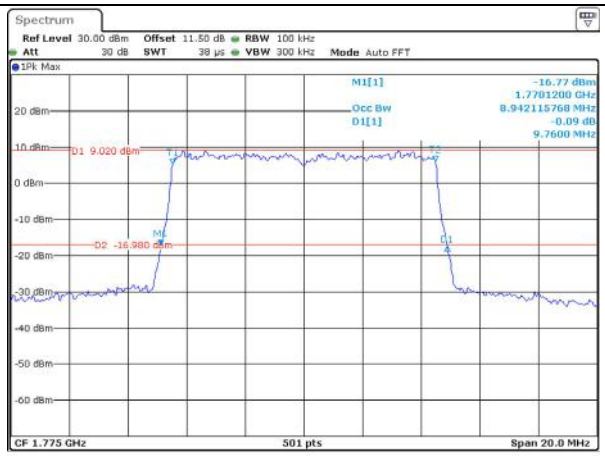
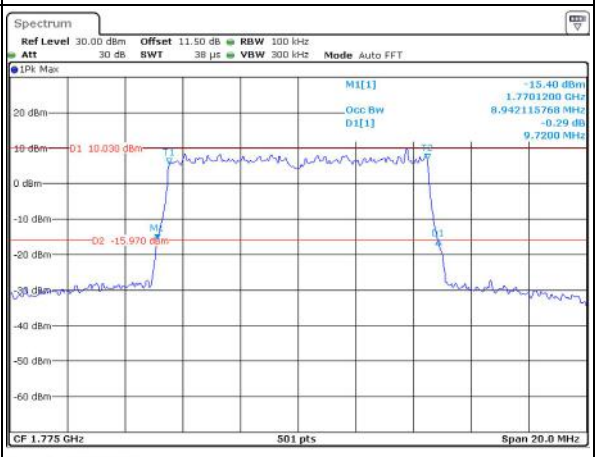
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	2535.015	2535.000	2654.985	2655.000
	-20	3.85	2535.015	2535.000	2654.979	2655.000
	-10	3.85	2535.021	2535.000	2654.983	2655.000
	0	3.85	2535.018	2535.000	2654.985	2655.000
	10	3.85	2535.017	2535.000	2654.981	2655.000
	20	3.85	2535.016	2535.000	2654.985	2655.000
	30	3.85	2535.019	2535.000	2654.983	2655.000
	40	3.85	2535.019	2535.000	2654.979	2655.000
	50	3.85	2535.016	2535.000	2654.983	2655.000
Frequency Stability vs. Voltage	20	3.35	2535.018	2535.000	2654.979	2655.000
	20	4.4	2535.015	2535.000	2654.985	2655.000
					Result:	**Pass**

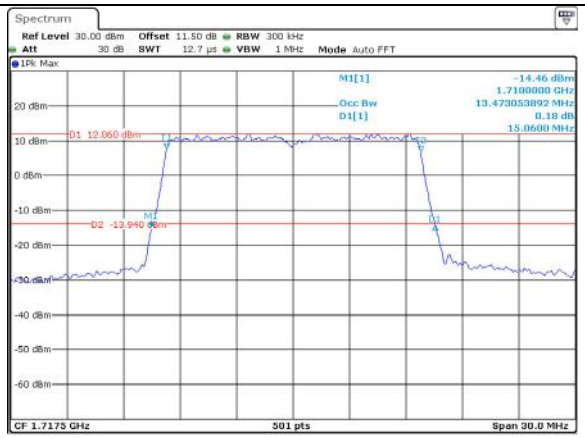
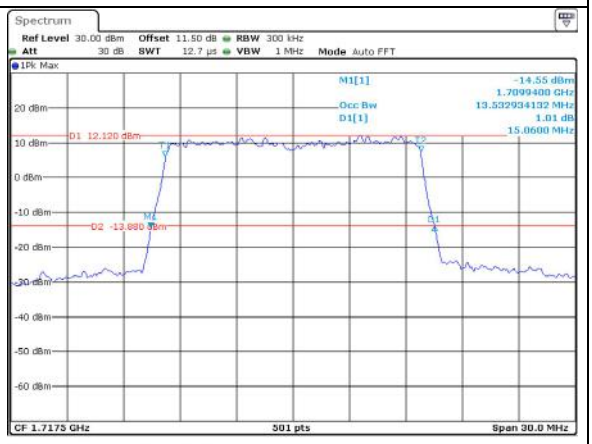
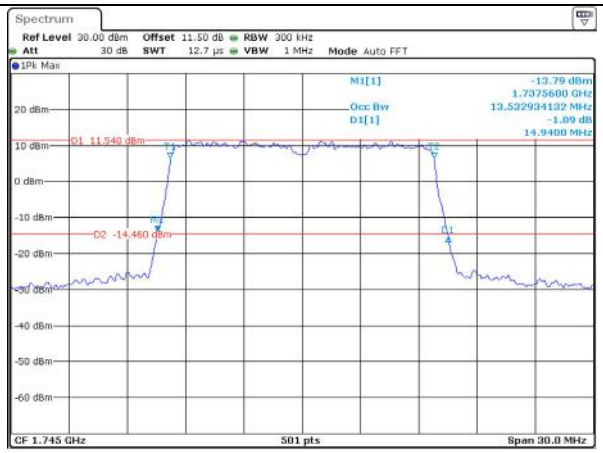
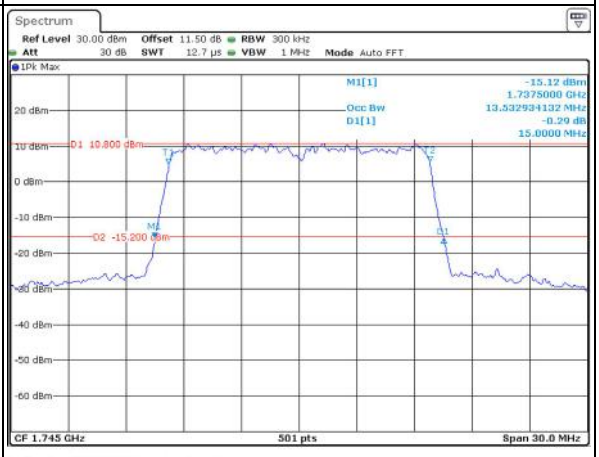
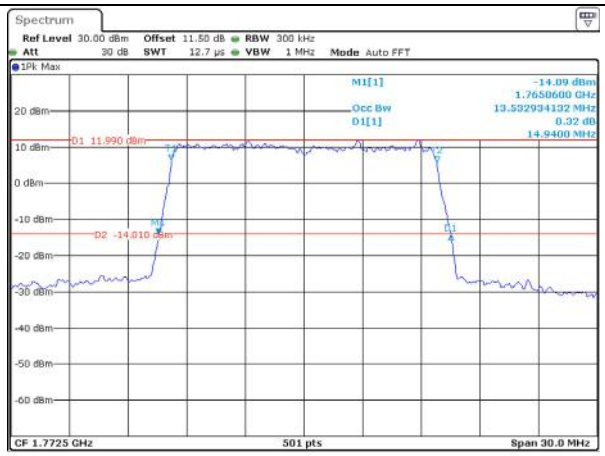
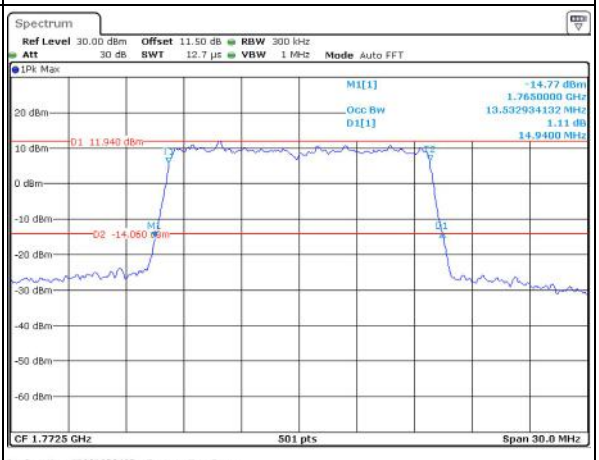
Test Plots (Note: The 11.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

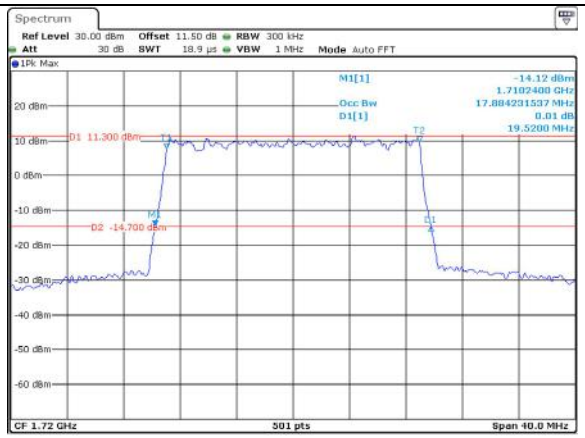
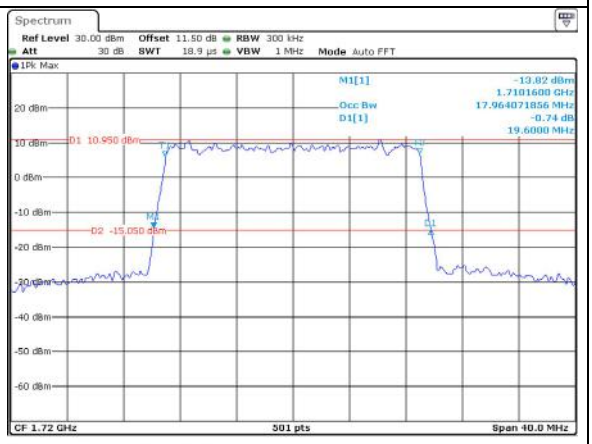
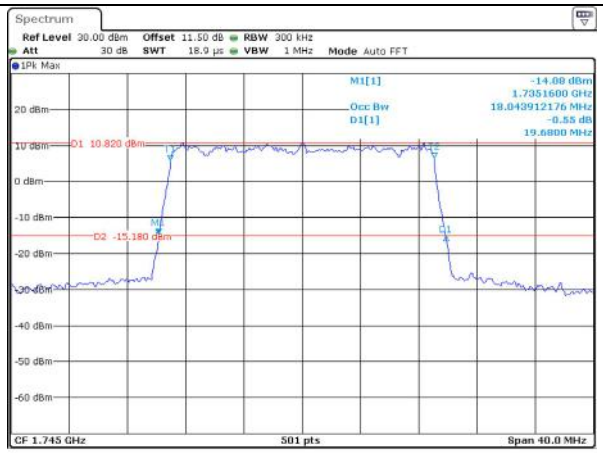
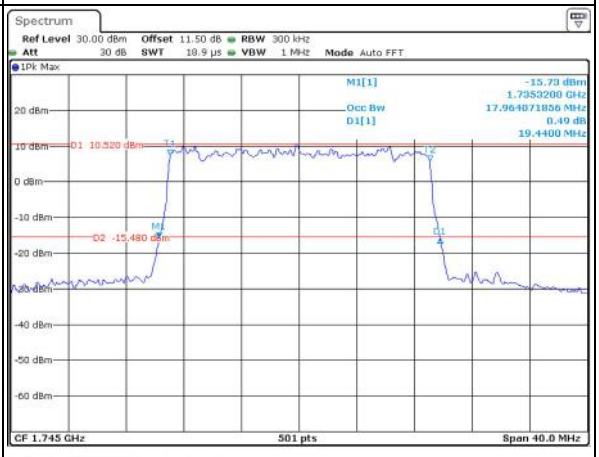
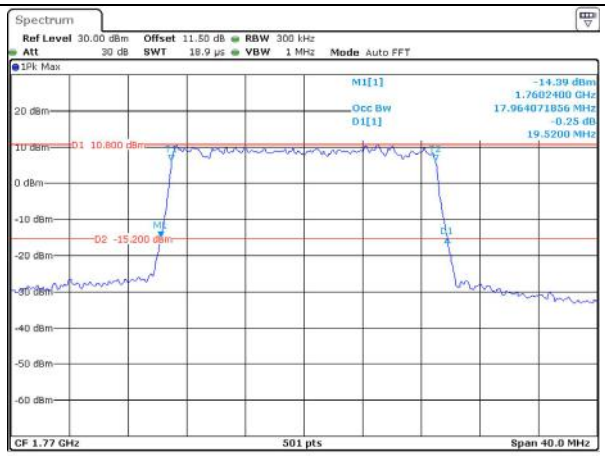
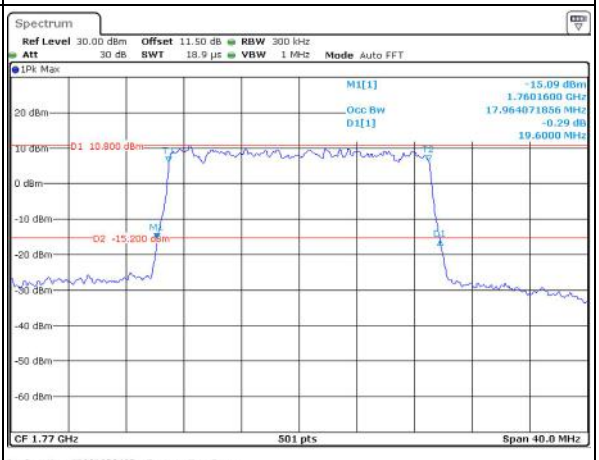
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

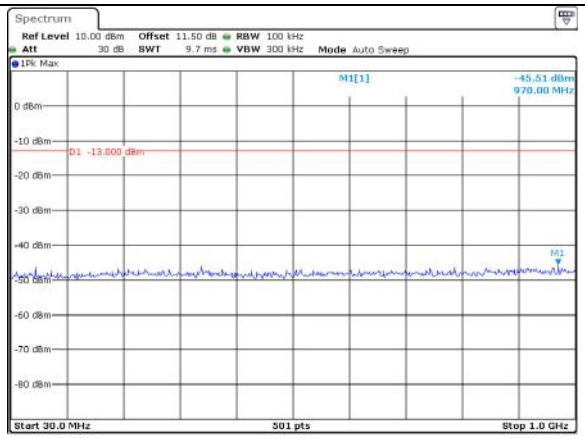
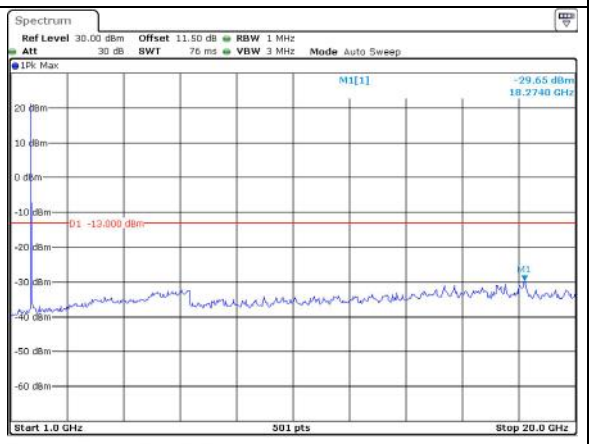
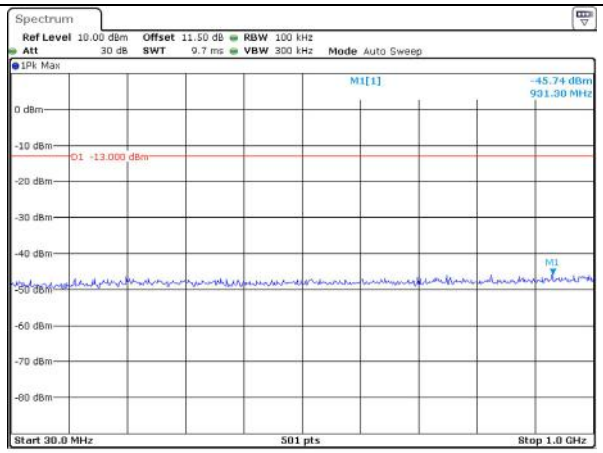
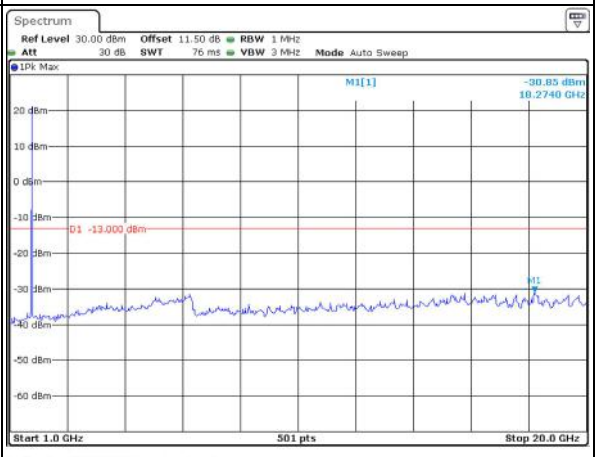
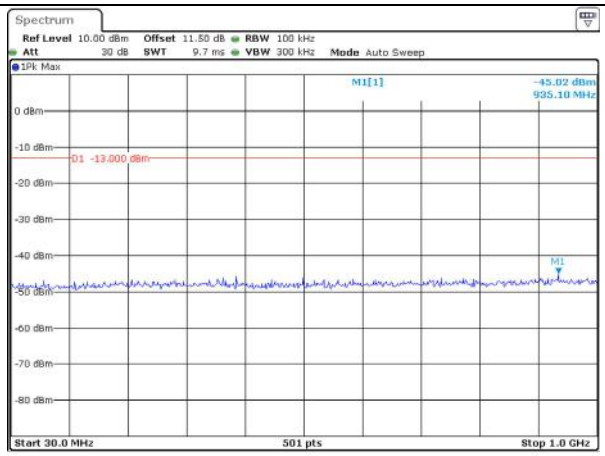
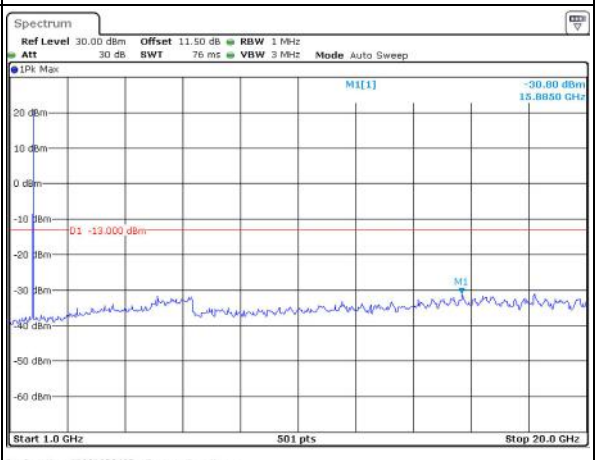
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

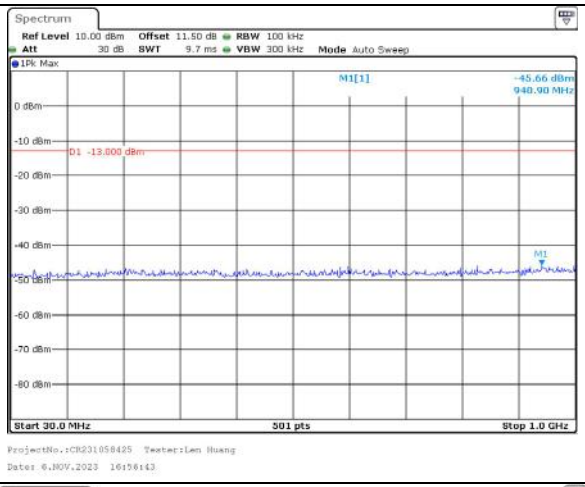
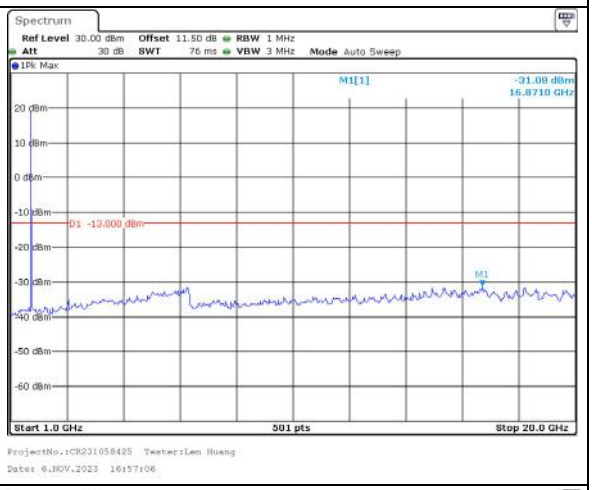
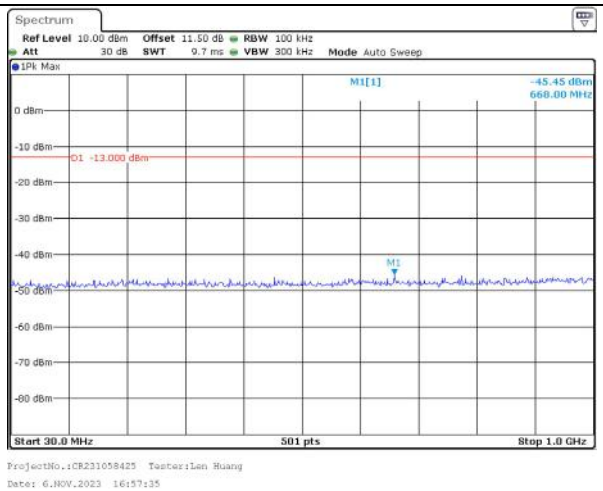
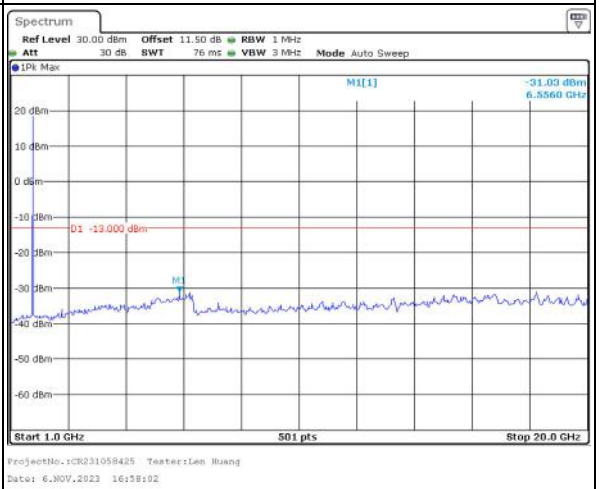
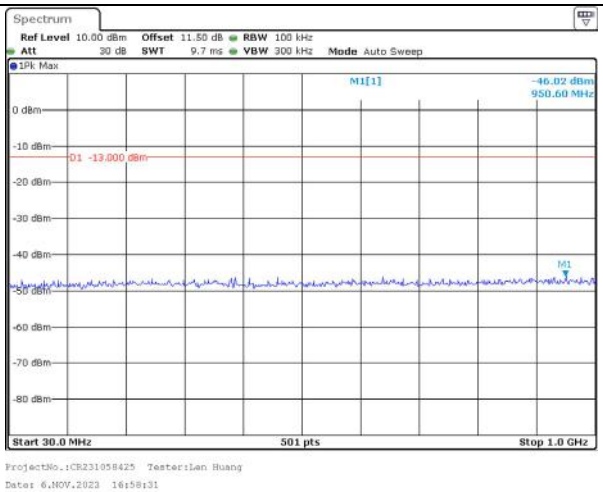
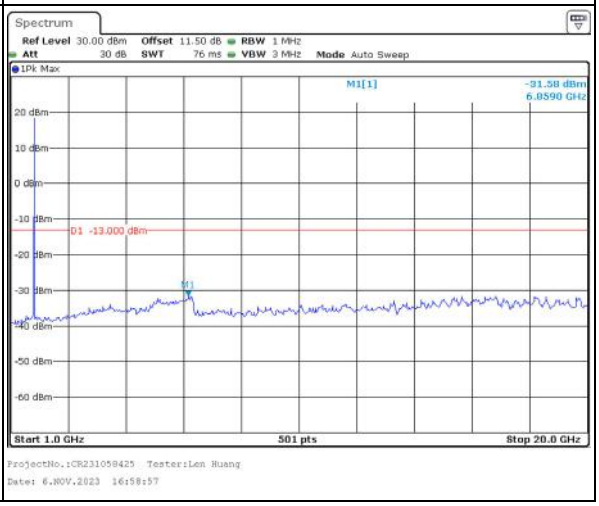
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

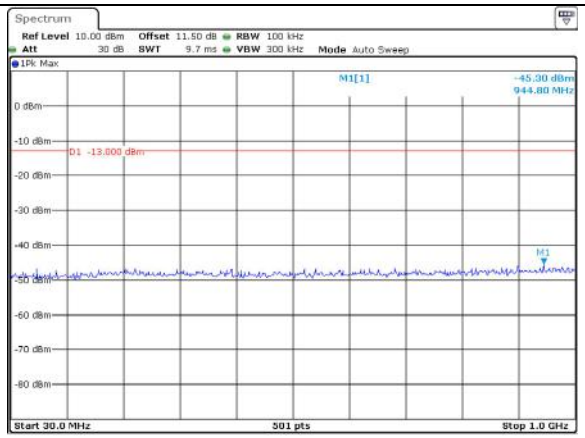
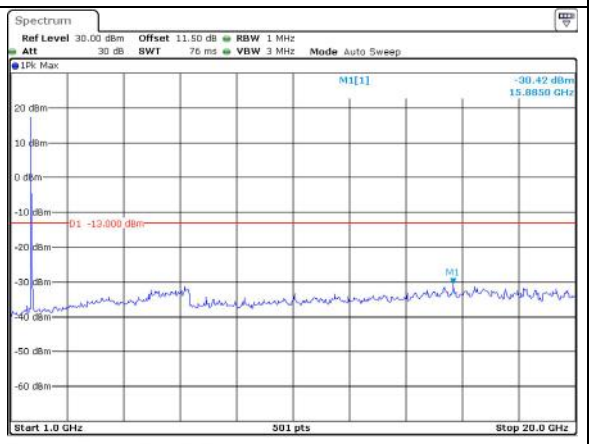
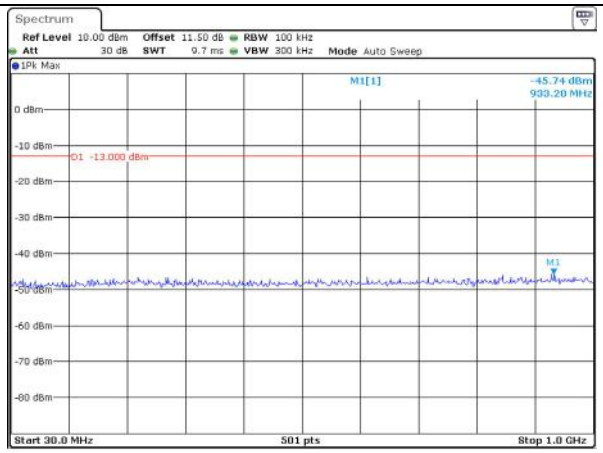
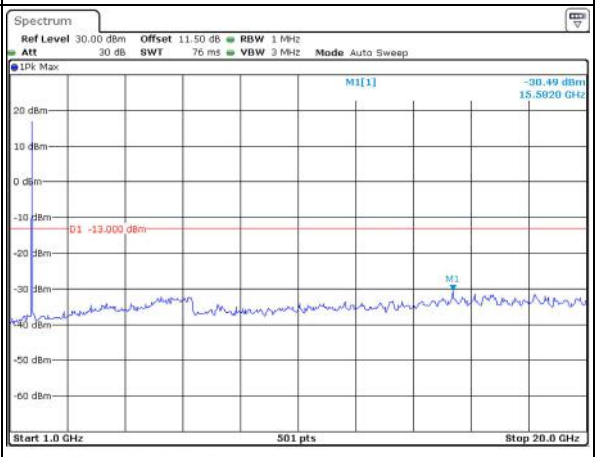
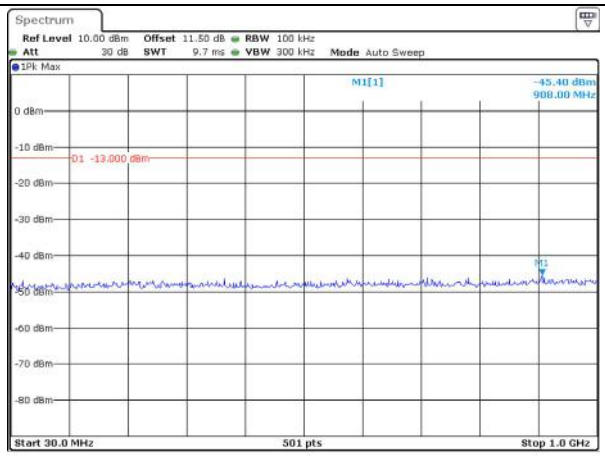
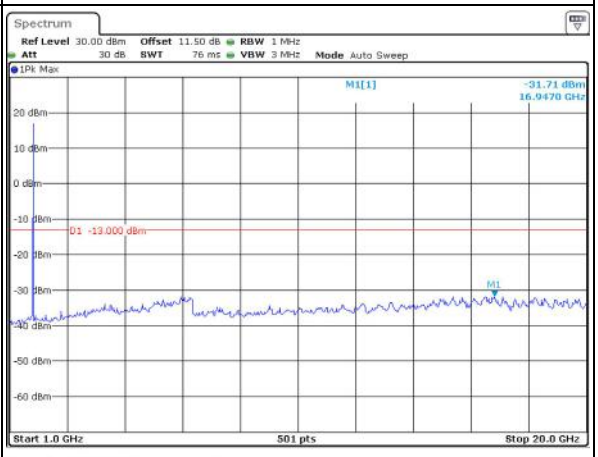
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

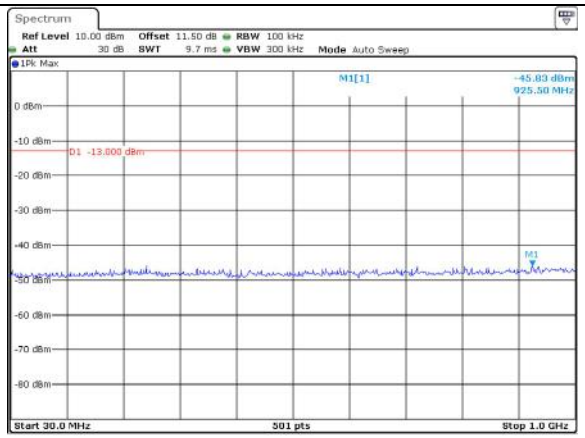
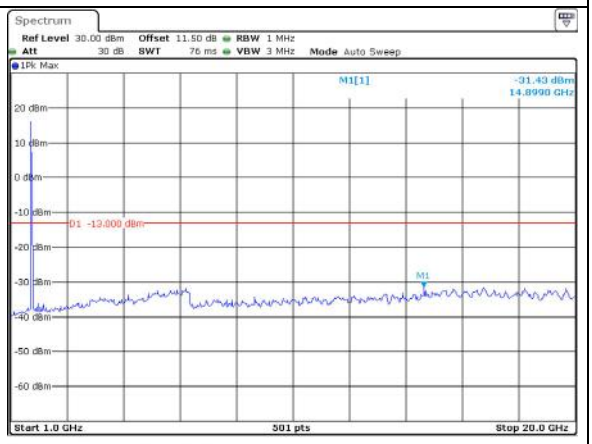
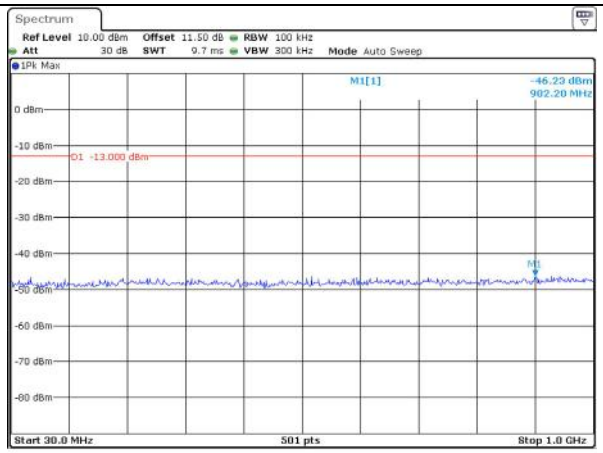
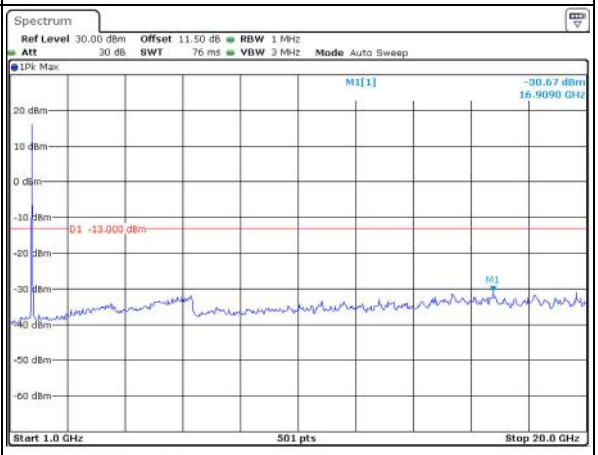
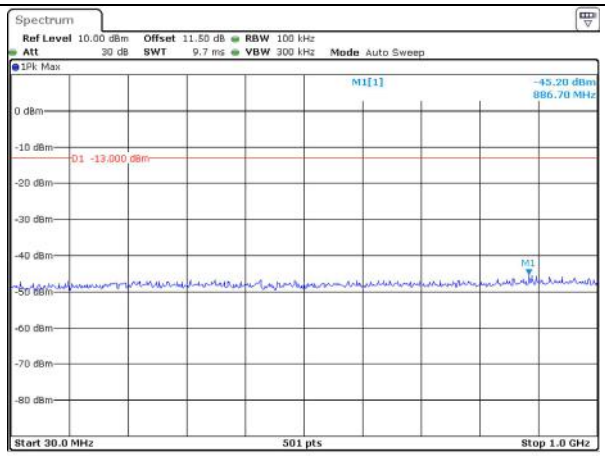
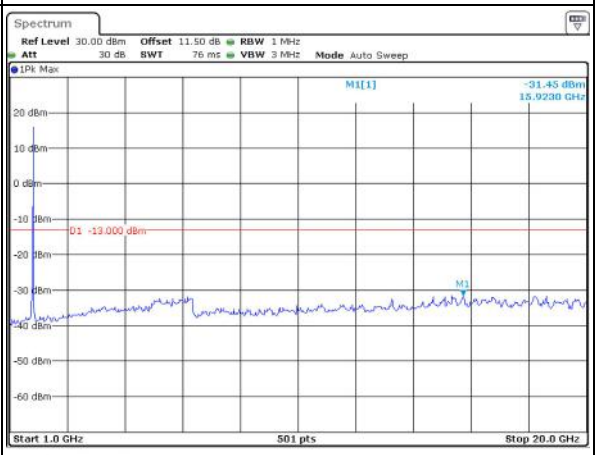
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

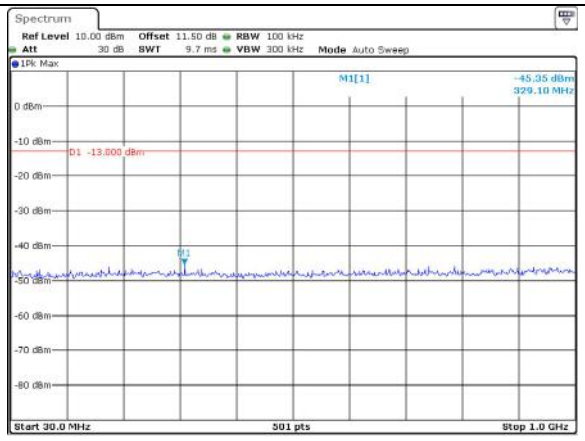
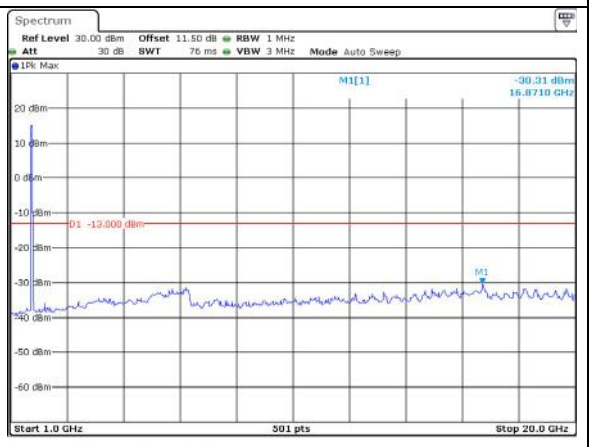
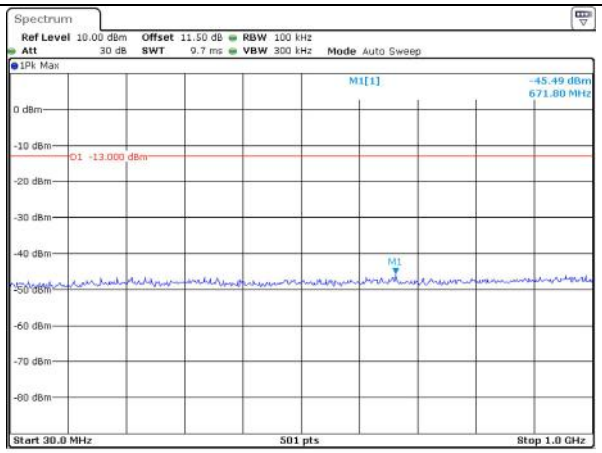
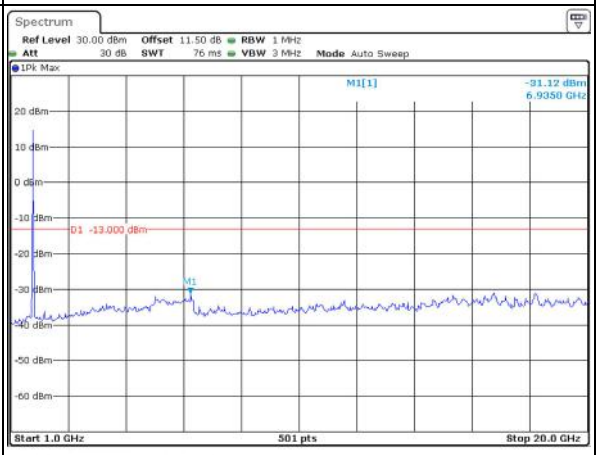
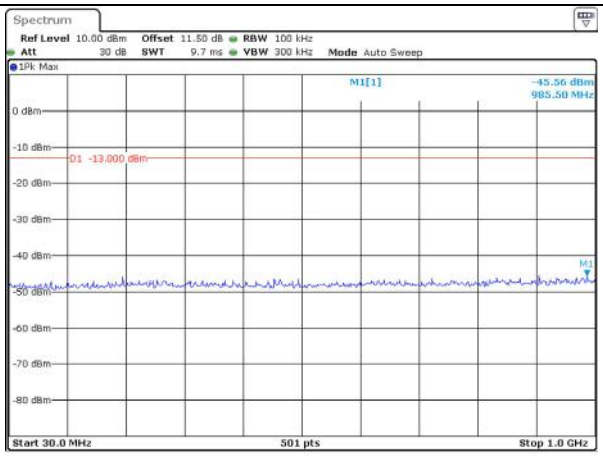
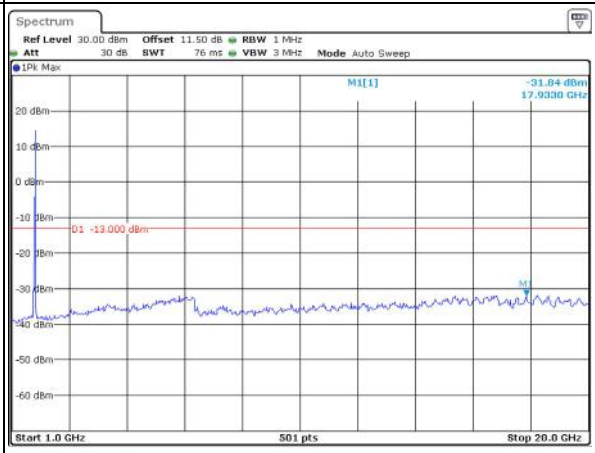
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

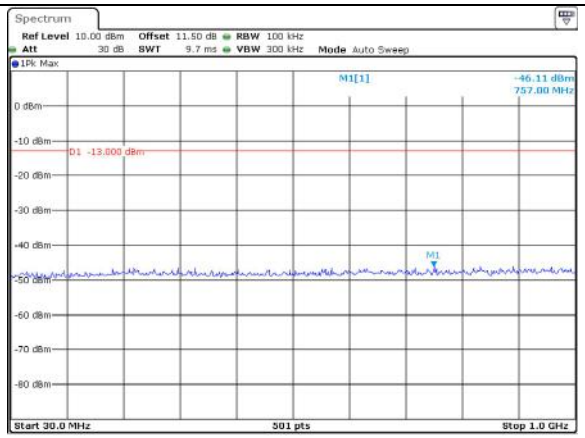
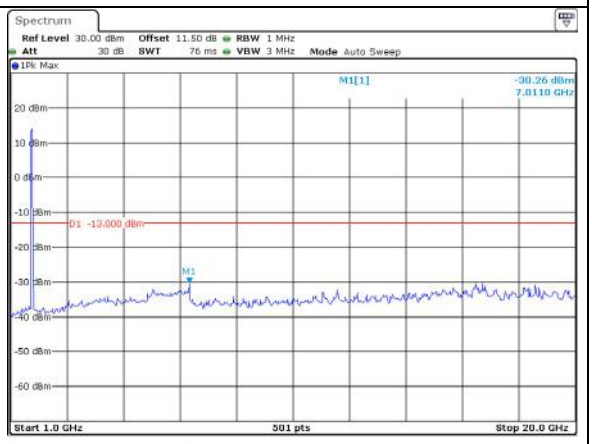
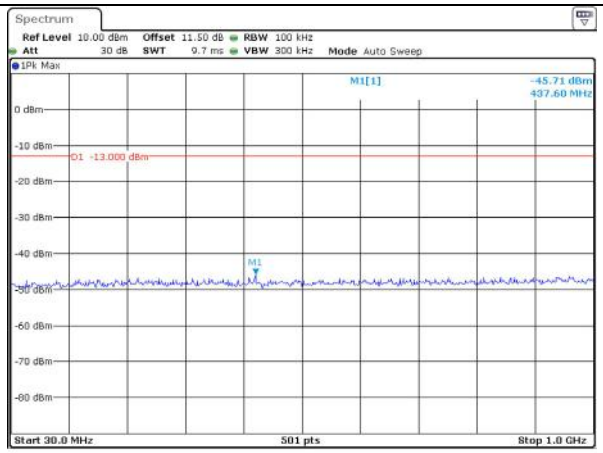
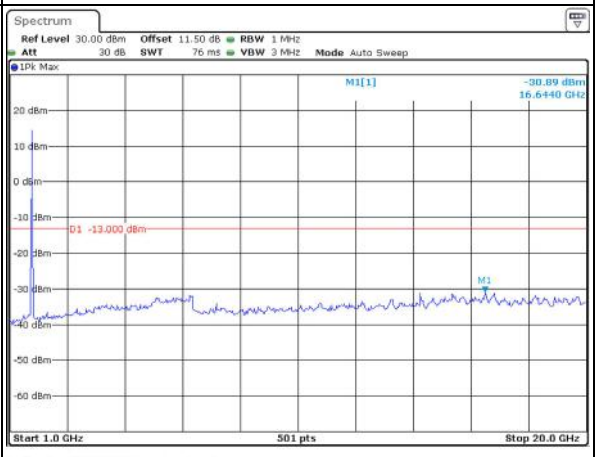
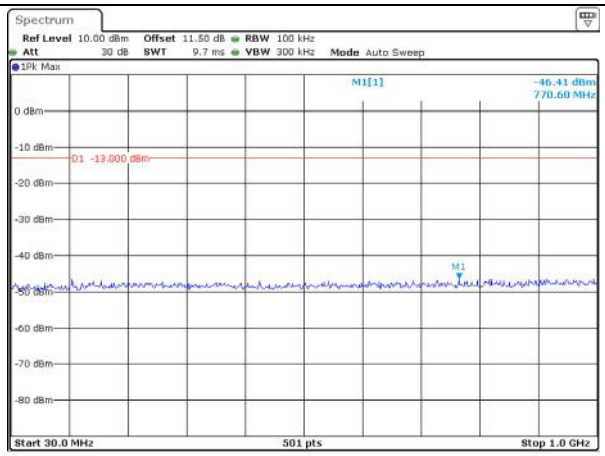
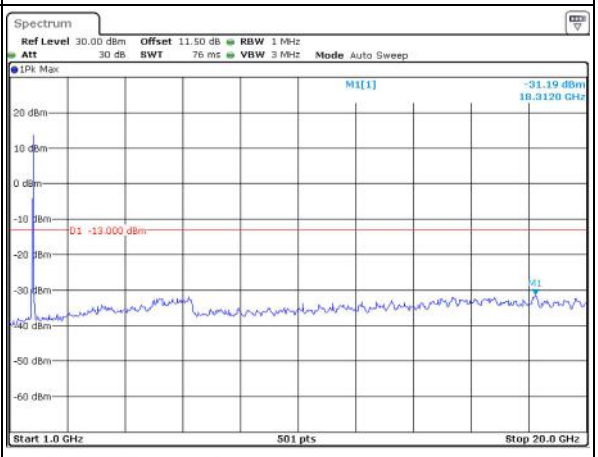
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

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

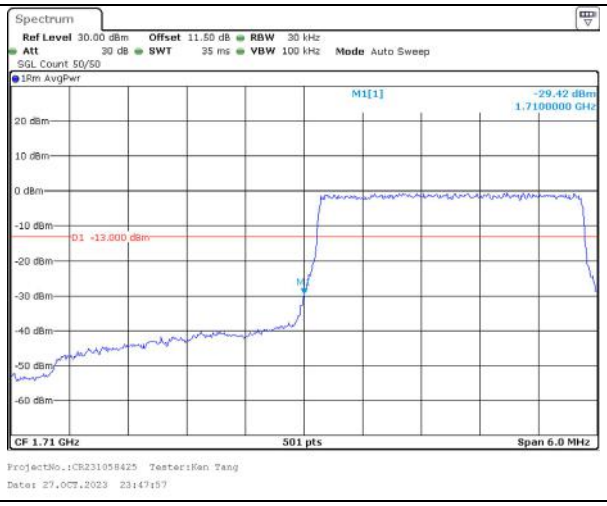
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

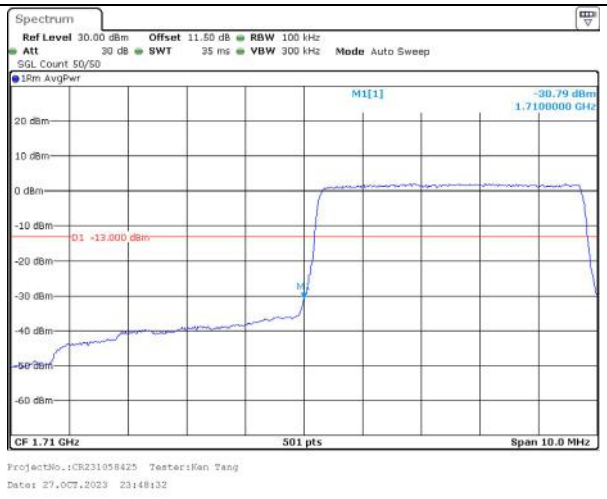
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

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**	**Highest**
QPSK 1.4MHz		

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

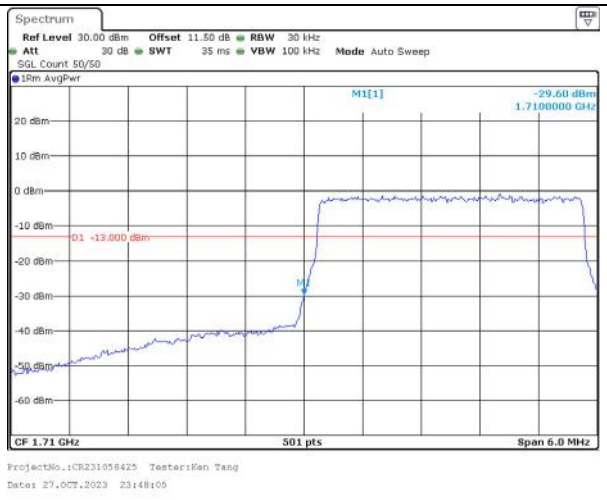
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

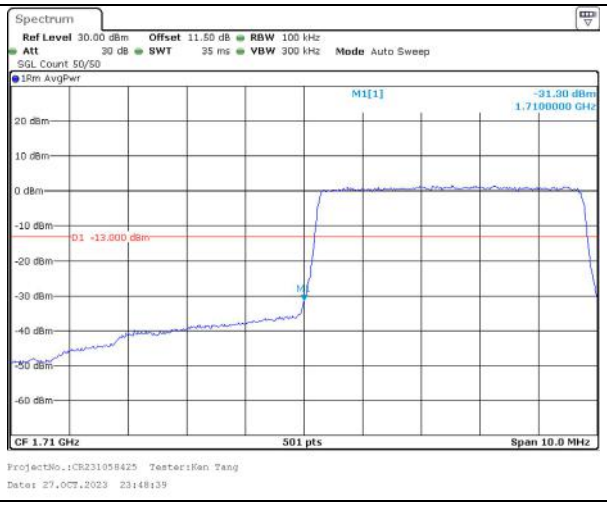
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		

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

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

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

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

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

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

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

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

4.19 Radiated Spurious Emissions

Serial Number:	2BYR-5	Test Date:	2023/10/24~2023/10/30
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Carl Xue,Coco Tian	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	25.4~26.7	Relative Humidity: (%)	61.5~67	ATM Pressure: (kPa)	100.7~101.1

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	2022/11/18	2023/11/17
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	2022/11/9	2023/11/8
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	2022/11/18	2023/11/17
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								
704.22	H	20.79	-52.44	0.00	0.55	-52.99	-13.00	39.99
675.38	V	20.66	-49.71	0.00	0.50	-50.21	-13.00	37.21
1648.400	H	50.65	-53.68	8.68	0.80	-45.80	-13.00	32.80
1648.400	V	48.63	-55.78	8.68	0.80	-47.90	-13.00	34.90
2472.600	H	56.21	-44.57	9.38	1.00	-36.19	-13.00	23.19
2472.600	V	55.29	-45.44	9.38	1.00	-37.06	-13.00	24.06
3296.800	H	46.51	-50.17	10.32	1.15	-41.00	-13.00	28.00
3296.800	V	46.36	-50.08	10.32	1.15	-40.91	-13.00	27.91
GSM 850 Frequency:836.6MHz								
651.99	H	20.94	-52.64	0.00	0.52	-53.16	-13.00	40.16
726.75	V	20.84	-48.50	0.00	0.52	-49.02	-13.00	36.02
1673.200	H	50.79	-53.52	8.71	0.85	-45.66	-13.00	32.66
1673.200	V	51.78	-52.63	8.71	0.85	-44.77	-13.00	31.77
2509.800	H	61.32	-39.29	9.42	1.01	-30.88	-13.00	17.88
2509.800	V	61.94	-38.68	9.42	1.01	-30.27	-13.00	17.27
3346.400	H	46.51	-50.66	10.34	1.16	-41.48	-13.00	28.48
3346.400	V	46.08	-50.95	10.34	1.16	-41.77	-13.00	28.77
GSM 850 Frequency:848.8MHz								
714.16	H	20.85	-52.18	0.00	0.50	-52.68	-13.00	39.68
701.73	V	20.71	-49.17	0.00	0.55	-49.72	-13.00	36.72
1697.600	H	60.06	-44.23	8.74	0.90	-36.39	-13.00	23.39
1697.600	V	59.24	-45.18	8.74	0.90	-37.34	-13.00	24.34
2546.400	H	64.37	-35.96	9.47	1.01	-27.50	-13.00	14.50
2546.400	V	65.64	-34.64	9.47	1.01	-26.18	-13.00	13.18
3395.200	H	65.44	-32.25	10.36	1.19	-23.08	-13.00	10.08
3395.200	V	66.42	-31.24	10.36	1.19	-22.07	-13.00	9.07

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								
250.30	H	33.21	-78.68	0.00	0.30	-78.98	-13.00	65.98
44.73	V	36.32	-59.63	-20.16	0.12	-79.91	-13.00	66.91
3700.400	H	45.72	-51.60	10.60	1.25	-42.25	-13.00	29.25
3700.400	V	45.84	-51.46	10.60	1.25	-42.11	-13.00	29.11
5550.600	H	45.62	-47.64	11.44	1.49	-37.69	-13.00	24.69
5550.600	V	45.53	-47.57	11.44	1.49	-37.62	-13.00	24.62
GSM 1900 Frequency:1880MHz								
270.37	H	33.80	-77.62	0.00	0.31	-77.93	-13.00	64.93
38.34	V	35.66	-52.54	-25.60	0.11	-78.25	-13.00	65.25
3760.000	H	45.81	-50.60	10.66	1.24	-41.18	-13.00	28.18
3760.000	V	46.13	-50.16	10.66	1.24	-40.74	-13.00	27.74
5640.000	H	45.49	-47.96	11.33	1.54	-38.17	-13.00	25.17
5640.000	V	45.87	-47.46	11.33	1.54	-37.67	-13.00	24.67
GSM 1900 Frequency:1909.8MHz								
252.96	H	33.18	-78.65	0.00	0.30	-78.95	-13.00	65.95
39.71	V	35.54	-54.00	-26.26	0.11	-80.37	-13.00	67.37
3819.600	H	46.59	-49.27	10.72	1.29	-39.84	-13.00	26.84
3819.600	V	45.72	-50.00	10.72	1.29	-40.57	-13.00	27.57
5729.400	H	45.97	-47.51	11.22	1.59	-37.88	-13.00	24.88
5729.400	V	45.42	-47.94	11.22	1.59	-38.31	-13.00	25.31

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								
269.42	H	33.69	-77.75	0.00	0.31	-78.06	-13.00	65.06
44.74	V	35.81	-60.15	-20.14	0.12	-80.41	-13.00	67.41
3704.800	H	45.61	-51.65	10.60	1.25	-42.30	-13.00	29.30
3704.800	V	45.67	-51.56	10.60	1.25	-42.21	-13.00	29.21
5557.200	H	48.14	-45.14	11.43	1.49	-35.20	-13.00	22.20
5557.200	V	47.83	-45.30	11.43	1.49	-35.36	-13.00	22.36
WCDMA Band II, Frequency:1880 MHz								
255.63	H	33.52	-78.25	0.00	0.30	-78.55	-13.00	65.55
38.21	V	35.68	-52.39	-25.54	0.11	-78.04	-13.00	65.04
3760.000	H	46.26	-50.15	10.66	1.24	-40.73	-13.00	27.73
3760.000	V	47.15	-49.14	10.66	1.24	-39.72	-13.00	26.72
5640.000	H	47.39	-46.06	11.33	1.54	-36.27	-13.00	23.27
5640.000	V	48.71	-44.62	11.33	1.54	-34.83	-13.00	21.83
WCDMA Band II, Frequency:1907.6MHz								
278.05	H	33.38	-77.86	0.00	0.32	-78.18	-13.00	65.18
68.12	V	35.40	-67.85	-6.00	0.15	-74.00	-13.00	61.00
3815.200	H	46.27	-49.58	10.72	1.29	-40.15	-13.00	27.15
3815.200	V	46.41	-49.28	10.72	1.29	-39.85	-13.00	26.85
5722.800	H	50.28	-43.21	11.23	1.58	-33.56	-13.00	20.56
5722.800	V	51.65	-41.70	11.23	1.58	-32.05	-13.00	19.05

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			
97.55	H	33.57	-78.96	0.00	0.19	-79.15	-13.00	66.15
45.21	V	35.80	-60.71	-19.59	0.12	-80.42	-13.00	67.42
3424.800	H	46.52	-51.25	10.37	1.17	-42.05	-13.00	29.05
3424.800	V	46.37	-51.37	10.37	1.17	-42.17	-13.00	29.17
5137.200	H	46.71	-46.91	11.28	1.46	-37.09	-13.00	24.09
5137.200	V	47.29	-46.21	11.28	1.46	-36.39	-13.00	23.39
			Frequency:	1732.6	MHz			
105.04	H	33.94	-78.36	0.00	0.19	-78.55	-13.00	65.55
43.05	V	35.64	-58.13	-22.37	0.12	-80.62	-13.00	67.62
3465.200	H	46.23	-51.58	10.39	1.15	-42.34	-13.00	29.34
3465.200	V	46.08	-51.69	10.39	1.15	-42.45	-13.00	29.45
5197.800	H	46.47	-47.66	11.32	1.44	-37.78	-13.00	24.78
5197.800	V	47.56	-46.42	11.32	1.44	-36.54	-13.00	23.54
			Frequency:	1752.6	MHz			
273.23	H	33.59	-77.76	0.00	0.32	-78.08	-13.00	65.08
39.72	V	35.91	-53.64	-26.27	0.11	-80.02	-13.00	67.02
3505.200	H	46.76	-51.07	10.41	1.18	-41.84	-13.00	28.84
3505.200	V	46.48	-51.29	10.41	1.18	-42.06	-13.00	29.06
5257.800	H	46.82	-46.91	11.35	1.47	-37.03	-13.00	24.03
5257.800	V	46.51	-47.00	11.35	1.47	-37.12	-13.00	24.12

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								
724.37	H	20.93	-51.90	0.00	0.51	-52.41	-13.00	39.41
716.64	V	20.65	-48.91	0.00	0.50	-49.41	-13.00	36.41
1652.800	H	54.15	-50.18	8.68	0.81	-42.31	-13.00	29.31
1652.800	V	53.43	-50.98	8.68	0.81	-43.11	-13.00	30.11
2479.200	H	48.26	-52.50	9.39	1.01	-44.12	-13.00	31.12
2479.200	V	49.42	-51.31	9.39	1.01	-42.93	-13.00	29.93
3305.600	H	45.31	-51.42	10.32	1.15	-42.25	-13.00	29.25
3305.600	V	46.35	-50.15	10.32	1.15	-40.98	-13.00	27.98
WCDMA Band 5 Frequency:836.6MHz								
711.79	H	20.75	-52.33	0.00	0.51	-52.84	-13.00	39.84
636.17	V	20.81	-50.27	0.00	0.52	-50.79	-13.00	37.79
1673.200	H	54.45	-49.86	8.71	0.85	-42.00	-13.00	29.00
1673.200	V	54.67	-49.74	8.71	0.85	-41.88	-13.00	28.88
2509.800	H	51.58	-49.03	9.42	1.01	-40.62	-13.00	27.62
2509.800	V	52.09	-48.53	9.42	1.01	-40.12	-13.00	27.12
3346.400	H	46.13	-51.04	10.34	1.16	-41.86	-13.00	28.86
3346.400	V	46.37	-50.66	10.34	1.16	-41.48	-13.00	28.48
WCDMA Band 5 Frequency:846.6MHz								
658.99	H	20.64	-52.90	0.00	0.51	-53.41	-13.00	40.41
721.68	V	20.92	-48.53	0.00	0.50	-49.03	-13.00	36.03
1693.200	H	58.93	-45.37	8.73	0.89	-37.53	-13.00	24.53
1693.200	V	57.25	-47.17	8.73	0.89	-39.33	-13.00	26.33
2539.800	H	52.71	-47.67	9.46	1.01	-39.22	-13.00	26.22
2539.800	V	51.26	-49.08	9.46	1.01	-40.63	-13.00	27.63
3386.400	H	45.21	-52.38	10.35	1.18	-43.21	-13.00	30.21
3386.400	V	45.29	-52.25	10.35	1.18	-43.08	-13.00	30.08

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								
252.94	H	34.67	-77.16	0.00	0.30	-77.46	-13.00	64.46
46.34	V	36.52	-61.10	-18.49	0.12	-79.71	-13.00	66.71
3701.400	H	45.98	-51.33	10.60	1.25	-41.98	-13.00	28.98
3701.400	V	46.49	-50.80	10.60	1.25	-41.45	-13.00	28.45
5552.100	H	53.17	-40.10	11.44	1.49	-30.15	-13.00	17.15
5552.100	V	52.03	-41.07	11.44	1.49	-31.12	-13.00	18.12
QPSK, 1.4MHz,Frequency:1880 MHz								
105.27	H	35.24	-77.06	0.00	0.19	-77.25	-13.00	64.25
68.39	V	35.70	-67.46	-5.85	0.15	-73.46	-13.00	60.46
3760.000	H	46.57	-49.84	10.66	1.24	-40.42	-13.00	27.42
3760.000	V	46.83	-49.46	10.66	1.24	-40.04	-13.00	27.04
5640.000	H	53.86	-39.59	11.33	1.54	-29.80	-13.00	16.80
5640.000	V	54.67	-38.66	11.33	1.54	-28.87	-13.00	15.87
QPSK, 1.4MHz,Frequency:1909.3 MHz								
253.83	H	34.63	-77.18	0.00	0.30	-77.48	-13.00	64.48
44.14	V	35.66	-59.53	-20.94	0.12	-80.59	-13.00	67.59
3818.600	H	46.34	-49.52	10.72	1.29	-40.09	-13.00	27.09
3818.600	V	46.13	-49.58	10.72	1.29	-40.15	-13.00	27.15
5727.900	H	57.29	-36.19	11.23	1.59	-26.55	-13.00	13.55
5727.900	V	58.81	-34.55	11.23	1.59	-24.91	-13.00	11.91

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								
104.90	H	34.64	-77.66	0.00	0.19	-77.85	-13.00	64.85
43.65	V	35.82	-58.73	-21.58	0.12	-80.43	-13.00	67.43
3421.400	H	46.15	-51.61	10.37	1.17	-42.41	-13.00	29.41
3421.400	V	46.46	-51.27	10.37	1.17	-42.07	-13.00	29.07
5132.100	H	48.34	-45.23	11.28	1.47	-35.42	-13.00	22.42
5132.100	V	47.62	-45.84	11.28	1.47	-36.03	-13.00	23.03
1.4MHz QPSK, Frequency: 1732.5 MHz								
102.04	H	34.82	-77.52	0.00	0.19	-77.71	-13.00	64.71
45.21	V	35.71	-60.80	-19.59	0.12	-80.51	-13.00	67.51
3465.000	H	46.06	-51.75	10.39	1.15	-42.51	-13.00	29.51
3465.000	V	46.47	-51.30	10.39	1.15	-42.06	-13.00	29.06
5197.500	H	50.12	-44.01	11.32	1.44	-34.13	-13.00	21.13
5197.500	V	49.21	-44.77	11.32	1.44	-34.89	-13.00	21.89
1.4MHz QPSK, Frequency: 1754.3 MHz								
252.06	H	34.41	-77.44	0.00	0.30	-77.74	-13.00	64.74
44.58	V	35.54	-60.22	-20.35	0.12	-80.69	-13.00	67.69
3508.600	H	46.27	-51.55	10.41	1.19	-42.33	-13.00	29.33
3508.600	V	46.45	-51.31	10.41	1.19	-42.09	-13.00	29.09
5262.900	H	47.31	-46.39	11.36	1.47	-36.50	-13.00	23.50
5262.900	V	46.59	-46.88	11.36	1.47	-36.99	-13.00	23.99

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								
445.14	H	21.06	-55.89	0.00	0.43	-56.32	-13.00	43.32
714.31	V	20.80	-48.81	0.00	0.50	-49.31	-13.00	36.31
1649.400	H	55.09	-49.24	8.68	0.80	-41.36	-13.00	28.36
1649.400	V	54.62	-49.79	8.68	0.80	-41.91	-13.00	28.91
2474.100	H	53.27	-47.51	9.38	1.00	-39.13	-13.00	26.13
2474.100	V	54.03	-46.70	9.38	1.00	-38.32	-13.00	25.32
3298.800	H	45.37	-51.31	10.32	1.15	-42.14	-13.00	29.14
3298.800	V	46.36	-50.08	10.32	1.15	-40.91	-13.00	27.91
QPSK, 1.4MHz, Frequency: 836.5 MHz								
721.86	H	20.61	-52.27	0.00	0.50	-52.77	-13.00	39.77
694.57	V	20.56	-49.46	0.00	0.55	-50.01	-13.00	37.01
1673.000	H	57.62	-46.69	8.71	0.85	-38.83	-13.00	25.83
1673.000	V	56.27	-48.14	8.71	0.85	-40.28	-13.00	27.28
2509.500	H	54.03	-46.58	9.42	1.01	-38.17	-13.00	25.17
2509.500	V	53.61	-47.01	9.42	1.01	-38.60	-13.00	25.60
3346.000	H	45.71	-51.45	10.34	1.16	-42.27	-13.00	29.27
3346.000	V	46.14	-50.88	10.34	1.16	-41.70	-13.00	28.70
QPSK, 1.4MHz, Frequency: 848.3 MHz								
570.85	H	20.78	-53.65	0.00	0.46	-54.11	-13.00	41.11
719.34	V	20.84	-48.66	0.00	0.49	-49.15	-13.00	36.15
1696.600	H	60.67	-43.62	8.74	0.89	-35.77	-13.00	22.77
1696.600	V	59.29	-45.13	8.74	0.89	-37.28	-13.00	24.28
2544.900	H	56.43	-43.91	9.47	1.01	-35.45	-13.00	22.45
2544.900	V	57.89	-42.41	9.47	1.01	-33.95	-13.00	20.95
3393.200	H	45.81	-51.86	10.36	1.19	-42.69	-13.00	29.69
3393.200	V	45.19	-52.44	10.36	1.19	-43.27	-13.00	30.27

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								
105.27	H	34.69	-77.61	0.00	0.19	-77.80	-25.00	52.80
45.21	V	35.72	-60.79	-19.59	0.12	-80.50	-25.00	55.50
5005.000	H	46.38	-46.58	11.20	1.47	-36.85	-25.00	11.85
5005.000	V	46.25	-46.57	11.20	1.47	-36.84	-25.00	11.84
7507.500	H	47.03	-42.76	10.90	1.95	-33.81	-25.00	8.81
7507.500	V	46.59	-43.70	10.90	1.95	-34.75	-25.00	9.75
5MHz QPSK, Frequency: 2535 MHz								
106.38	H	34.40	-77.88	0.00	0.19	-78.07	-25.00	53.07
43.81	V	35.67	-59.09	-21.37	0.12	-80.58	-25.00	55.58
5070.000	H	45.49	-47.70	11.24	1.47	-37.93	-25.00	12.93
5070.000	V	46.68	-46.41	11.24	1.47	-36.64	-25.00	11.64
7605.000	H	45.35	-44.12	10.88	2.01	-35.25	-25.00	10.25
7605.000	V	45.04	-45.15	10.88	2.01	-36.28	-25.00	11.28
5MHz QPSK, Frequency: 2567.5 MHz								
248.39	H	34.82	-77.11	0.00	0.30	-77.41	-25.00	52.41
45.05	V	35.69	-60.66	-19.75	0.12	-80.53	-25.00	55.53
5135.000	H	47.06	-46.54	11.28	1.47	-36.73	-25.00	11.73
5135.000	V	46.04	-47.45	11.28	1.47	-37.64	-25.00	12.64
7702.500	H	47.26	-42.26	10.86	1.97	-33.37	-25.00	8.37
7702.500	V	47.12	-43.06	10.86	1.97	-34.17	-25.00	9.17

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								
459.32	H	20.64	-56.02	0.00	0.41	-56.43	-13.00	43.43
568.86	V	20.61	-51.07	0.00	0.46	-51.53	-13.00	38.53
1399.400	H	50.97	-52.73	8.22	0.71	-45.22	-13.00	32.22
1399.400	V	49.53	-54.22	8.22	0.71	-46.71	-13.00	33.71
2099.100	H	58.74	-43.14	9.16	0.91	-34.89	-13.00	21.89
2099.100	V	57.61	-44.22	9.16	0.91	-35.97	-13.00	22.97
2798.800	H	46.92	-53.01	9.88	1.04	-44.17	-13.00	31.17
2798.800	V	47.43	-52.37	9.88	1.04	-43.53	-13.00	30.53
1.4MHz QPSK, Frequency: 707.5 MHz								
525.56	H	20.57	-54.76	0.00	0.42	-55.18	-13.00	42.18
539.74	V	20.46	-51.18	0.00	0.46	-51.64	-13.00	38.64
1415.000	H	50.92	-52.75	8.26	0.72	-45.21	-13.00	32.21
1415.000	V	49.27	-54.45	8.26	0.72	-46.91	-13.00	33.91
2122.500	H	63.25	-38.74	9.17	0.92	-30.49	-13.00	17.49
2122.500	V	62.86	-39.11	9.17	0.92	-30.86	-13.00	17.86
2830.000	H	45.92	-53.88	9.93	1.06	-45.01	-13.00	32.01
2830.000	V	45.97	-53.76	9.93	1.06	-44.89	-13.00	31.89
1.4MHz QPSK, Frequency: 715.3 MHz								
574.76	H	20.68	-53.68	0.00	0.46	-54.14	-13.00	41.14
428.32	V	20.53	-53.90	0.00	0.40	-54.30	-13.00	41.30
1430.600	H	51.09	-52.54	8.31	0.73	-44.96	-13.00	31.96
1430.600	V	50.02	-53.67	8.31	0.73	-46.09	-13.00	33.09
2145.900	H	54.43	-47.67	9.19	0.93	-39.41	-13.00	26.41
2145.900	V	53.61	-48.50	9.19	0.93	-40.24	-13.00	27.24
2861.200	H	47.98	-51.67	9.98	1.07	-42.76	-13.00	29.76
2861.200	V	48.34	-51.33	9.98	1.07	-42.42	-13.00	29.42

LTE Band 13(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: 779.5 MHz								
593.17	H	20.57	-53.42	0.00	0.50	-53.92	-13.00	40.92
687.32	V	20.60	-49.55	0.00	0.53	-50.08	-13.00	37.08
1559.000	H	49.57	-54.42	8.57	0.80	-46.65	-40.00	6.65
1559.000	V	48.36	-55.69	8.57	0.80	-47.92	-40.00	7.92
2338.500	H	49.72	-51.87	9.30	0.97	-43.54	-13.00	30.54
2338.500	V	49.31	-52.05	9.30	0.97	-43.72	-13.00	30.72
3118.000	H	45.13	-52.36	10.25	1.13	-43.24	-13.00	30.24
3118.000	V	45.84	-51.51	10.25	1.13	-42.39	-13.00	29.39
5MHz QPSK, Frequency: 784.5 MHz								
672.62	H	20.61	-52.86	0.00	0.50	-53.36	-13.00	40.36
661.34	V	20.53	-50.09	0.00	0.51	-50.60	-13.00	37.60
1569.000	H	49.66	-54.42	8.58	0.81	-46.65	-40.00	6.65
1569.000	V	48.02	-56.11	8.58	0.81	-48.34	-40.00	8.34
2353.500	H	48.59	-52.86	9.31	0.97	-44.52	-13.00	31.52
2353.500	V	49.07	-52.15	9.31	0.97	-43.81	-13.00	30.81
3138.000	H	45.12	-52.28	10.26	1.14	-43.16	-13.00	30.16
3138.000	V	46.01	-51.22	10.26	1.14	-42.10	-13.00	29.10

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								
508.44	H	20.51	-55.15	0.00	0.45	-55.60	-13.00	42.60
522.99	V	20.58	-51.03	0.00	0.42	-51.45	-13.00	38.45
1413.000	H	47.86	-55.81	8.26	0.72	-48.27	-13.00	35.27
1413.000	V	46.92	-56.80	8.26	0.72	-49.26	-13.00	36.26
2119.500	H	57.34	-44.63	9.17	0.92	-36.38	-13.00	23.38
2119.500	V	56.15	-45.80	9.17	0.92	-37.55	-13.00	24.55
2826.000	H	45.97	-53.84	9.92	1.06	-44.98	-13.00	31.98
2826.000	V	45.62	-54.12	9.92	1.06	-45.26	-13.00	32.26
5MHz QPSK, Frequency: 710 MHz								
469.08	H	20.48	-55.98	0.00	0.43	-56.41	-13.00	43.41
591.20	V	20.52	-51.20	0.00	0.49	-51.69	-13.00	38.69
1420.000	H	46.83	-56.83	8.28	0.73	-49.28	-13.00	36.28
1420.000	V	46.52	-57.19	8.28	0.73	-49.64	-13.00	36.64
2130.000	H	63.78	-38.24	9.18	0.92	-29.98	-13.00	16.98
2130.000	V	62.71	-39.30	9.18	0.92	-31.04	-13.00	18.04
2840.000	H	45.82	-53.93	9.94	1.06	-45.05	-13.00	32.05
2840.000	V	45.31	-54.40	9.94	1.06	-45.52	-13.00	32.52
5MHz QPSK, Frequency: 713.5 MHz								
530.26	H	20.59	-54.64	0.00	0.45	-55.09	-13.00	42.09
603.76	V	20.62	-51.04	0.00	0.50	-51.54	-13.00	38.54
1427.000	H	48.47	-55.17	8.30	0.73	-47.60	-13.00	34.60
1427.000	V	47.08	-56.61	8.30	0.73	-49.04	-13.00	36.04
2140.500	H	54.51	-47.56	9.18	0.93	-39.31	-13.00	26.31
2140.500	V	52.55	-49.53	9.18	0.93	-41.28	-13.00	28.28
2854.000	H	46.03	-53.66	9.97	1.07	-44.76	-13.00	31.76
2854.000	V	45.97	-53.71	9.97	1.07	-44.81	-13.00	31.81

LTE Band 26(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: 814.7 MHz								
680.05	H	20.77	-52.66	0.00	0.52	-53.18	-13.00	40.18
714.18	V	20.96	-48.65	0.00	0.50	-49.15	-13.00	36.15
1629.400	H	51.67	-52.68	8.66	0.81	-44.83	-13.00	31.83
1629.400	V	50.36	-54.05	8.66	0.81	-46.20	-13.00	33.20
2444.100	H	52.67	-48.22	9.37	1.00	-39.85	-13.00	26.85
2444.100	V	51.25	-49.50	9.37	1.00	-41.13	-13.00	28.13
3258.800	H	45.05	-51.81	10.30	1.17	-42.68	-13.00	29.68
3258.800	V	45.79	-50.82	10.30	1.17	-41.69	-13.00	28.69
1.4MHz QPSK, Frequency: 836.5 MHz								
721.73	H	20.80	-52.08	0.00	0.50	-52.58	-13.00	39.58
687.18	V	20.74	-49.41	0.00	0.53	-49.94	-13.00	36.94
1673.000	H	55.79	-48.52	8.71	0.85	-40.66	-13.00	27.66
1673.000	V	54.25	-50.16	8.71	0.85	-42.30	-13.00	29.30
2509.500	H	52.78	-47.83	9.42	1.01	-39.42	-13.00	26.42
2509.500	V	51.63	-48.99	9.42	1.01	-40.58	-13.00	27.58
3346.000	H	46.41	-50.75	10.34	1.16	-41.57	-13.00	28.57
3346.000	V	45.94	-51.08	10.34	1.16	-41.90	-13.00	28.90
1.4MHz QPSK, Frequency: 848.3 MHz								
668.19	H	21.12	-52.37	0.00	0.50	-52.87	-13.00	39.87
584.91	V	20.88	-50.83	0.00	0.46	-51.29	-13.00	38.29
1696.600	H	59.34	-44.95	8.74	0.89	-37.10	-13.00	24.10
1696.600	V	58.29	-46.13	8.74	0.89	-38.28	-13.00	25.28
2544.900	H	57.31	-43.03	9.47	1.01	-34.57	-13.00	21.57
2544.900	V	58.35	-41.95	9.47	1.01	-33.49	-13.00	20.49
3393.200	H	45.71	-51.96	10.36	1.19	-42.79	-13.00	29.79
3393.200	V	46.12	-51.51	10.36	1.19	-42.34	-13.00	29.34

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								
105.27	H	35.05	-77.25	0.00	0.19	-77.44	-25.00	52.44
68.63	V	35.42	-67.66	-5.73	0.15	-73.54	-25.00	48.54
5145.000	H	50.83	-42.85	11.29	1.44	-33.00	-25.00	8.00
5145.000	V	49.27	-44.30	11.29	1.44	-34.45	-25.00	9.45
7717.500	H	48.35	-41.16	10.86	1.99	-32.29	-25.00	7.29
7717.500	V	47.92	-42.21	10.86	1.99	-33.34	-25.00	8.34
5MHz QPSK, Frequency: 2595 MHz								
103.80	H	34.91	-77.41	0.00	0.19	-77.60	-25.00	52.60
45.21	V	35.79	-60.72	-19.59	0.12	-80.43	-25.00	55.43
5190.000	H	55.06	-39.01	11.31	1.44	-29.14	-25.00	4.14
5190.000	V	54.09	-39.83	11.31	1.44	-29.96	-25.00	4.96
7785.000	H	48.15	-41.34	10.84	1.99	-32.49	-25.00	7.49
7785.000	V	48.13	-41.79	10.84	1.99	-32.94	-25.00	7.94
5MHz QPSK, Frequency: 2617.5 MHz								
103.80	H	34.91	-77.41	0.00	0.19	-77.60	-25.00	52.60
45.21	V	35.79	-60.72	-19.59	0.12	-80.43	-25.00	55.43
5235.000	H	46.17	-47.73	11.34	1.46	-37.85	-25.00	12.85
5235.000	V	46.05	-47.66	11.34	1.46	-37.78	-25.00	12.78
7852.500	H	48.56	-40.63	10.83	2.03	-31.83	-25.00	6.83
7852.500	V	47.85	-41.73	10.83	2.03	-32.93	-25.00	7.93

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								
103.80	H	34.64	-77.68	0.00	0.19	-77.87	-40.00	37.87
44.58	V	36.08	-59.68	-20.35	0.12	-80.15	-40.00	40.15
4615.000	H	37.82	-57.54	10.74	1.41	-48.21	-40.00	8.21
4615.000	V	38.39	-56.83	10.74	1.41	-47.50	-40.00	7.50
6922.500	H	35.58	-55.44	11.22	1.88	-46.10	-40.00	6.10
6922.500	V	35.41	-55.48	11.22	1.88	-46.14	-40.00	6.14
5MHz QPSK, Frequency: 2312.5 MHz								
102.36	H	33.86	-78.48	0.00	0.19	-78.67	-40.00	38.67
43.81	V	35.48	-59.28	-21.37	0.12	-80.77	-40.00	40.77
4625.000	H	37.96	-57.33	10.75	1.41	-47.99	-40.00	7.99
4625.000	V	38.42	-56.75	10.75	1.41	-47.41	-40.00	7.41
6937.500	H	35.61	-55.37	11.21	1.90	-46.06	-40.00	6.06
6937.500	V	35.53	-55.31	11.21	1.90	-46.00	-40.00	6.00

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								
99.18	H	33.98	-78.44	0.00	0.19	-78.63	-40.00	38.63
44.74	V	34.94	-61.02	-20.14	0.12	-81.28	-40.00	41.28
4705.000	H	37.82	-56.96	10.85	1.41	-47.52	-40.00	7.52
4705.000	V	38.39	-56.41	10.85	1.41	-46.97	-40.00	6.97
7057.500	H	35.58	-54.43	11.17	1.92	-45.18	-40.00	5.18
7057.500	V	35.41	-54.49	11.17	1.92	-45.24	-40.00	5.24
5MHz QPSK, Frequency: 2357.5 MHz								
104.16	H	34.50	-77.81	0.00	0.19	-78.00	-40.00	38.00
45.21	V	35.20	-61.31	-19.59	0.12	-81.02	-40.00	41.02
4715.000	H	37.75	-56.96	10.86	1.41	-47.51	-40.00	7.51
4715.000	V	38.37	-56.34	10.86	1.41	-46.89	-40.00	6.89
7072.500	H	35.53	-54.27	11.16	1.91	-45.02	-40.00	5.02
7072.500	V	35.64	-54.07	11.16	1.91	-44.82	-40.00	4.82

LTE Band 41 (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)			
QPSK, 5MHz, Frequency: 2537.5 MHz								
257.42	H	34.41	-77.31	0.00	0.30	-77.61	-25.00	52.61
44.58	V	34.76	-61.00	-20.35	0.12	-81.47	-25.00	56.47
5075.000	H	39.63	-53.58	11.25	1.48	-43.81	-25.00	18.81
5075.000	V	38.29	-54.82	11.25	1.48	-45.05	-25.00	20.05
7612.500	H	37.36	-52.12	10.88	2.02	-43.26	-25.00	18.26
7612.500	V	37.61	-52.58	10.88	2.02	-43.72	-25.00	18.72
QPSK, 5MHz, Frequency:2595 MHz								
275.13	H	33.81	-77.50	0.00	0.32	-77.82	-25.00	52.82
43.81	V	35.23	-59.53	-21.37	0.12	-81.02	-25.00	56.02
5190.000	H	41.57	-52.50	11.31	1.44	-42.63	-25.00	17.63
5190.000	V	42.34	-51.58	11.31	1.44	-41.71	-25.00	16.71
7785.000	H	37.56	-51.93	10.84	1.99	-43.08	-25.00	18.08
7785.000	V	37.64	-52.28	10.84	1.99	-43.43	-25.00	18.43
QPSK, 5MHz, Frequency: 2652.5MHz								
93.53	H	33.43	-79.37	0.00	0.18	-79.55	-25.00	54.55
68.63	V	35.55	-67.53	-5.73	0.15	-73.41	-25.00	48.41
5305.000	H	38.21	-55.23	11.38	1.46	-45.31	-25.00	20.31
5305.000	V	37.28	-55.90	11.38	1.46	-45.98	-25.00	20.98
7957.500	H	37.25	-51.17	10.81	2.09	-42.45	-25.00	17.45
7957.500	V	37.56	-51.31	10.81	2.09	-42.59	-25.00	17.59

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								
267.53	H	33.91	-77.58	0.00	0.31	-77.89	-13.00	64.89
43.19	V	35.07	-58.88	-22.19	0.12	-81.19	-13.00	68.19
3421.400	H	47.34	-50.42	10.37	1.17	-41.22	-13.00	28.22
3421.400	V	46.83	-50.90	10.37	1.17	-41.70	-13.00	28.70
5132.100	H	47.62	-45.95	11.28	1.47	-36.14	-13.00	23.14
5132.100	V	46.57	-46.89	11.28	1.47	-37.08	-13.00	24.08
1.4MHz QPSK, Frequency: 1745 MHz								
252.95	H	34.22	-77.61	0.00	0.30	-77.91	-13.00	64.91
38.34	V	35.25	-52.95	-25.60	0.11	-78.66	-13.00	65.66
3490.000	H	47.81	-50.03	10.40	1.17	-40.80	-13.00	27.80
3490.000	V	47.08	-50.70	10.40	1.17	-41.47	-13.00	28.47
5235.000	H	47.51	-46.39	11.34	1.46	-36.51	-13.00	23.51
5235.000	V	46.55	-47.16	11.34	1.46	-37.28	-13.00	24.28
1.4MHz QPSK, Frequency: 1779.3 MHz								
249.43	H	34.29	-77.62	0.00	0.30	-77.92	-13.00	64.92
44.58	V	34.91	-60.85	-20.35	0.12	-81.32	-13.00	68.32
3558.600	H	46.78	-50.89	10.46	1.22	-41.65	-13.00	28.65
3558.600	V	45.87	-51.70	10.46	1.22	-42.46	-13.00	29.46
5337.900	H	47.75	-45.72	11.40	1.47	-35.79	-13.00	22.79
5337.900	V	46.56	-46.77	11.40	1.47	-36.84	-13.00	23.84

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 CR231058425-EXP EUT EXTERNAL PHOTOGRAPHS and CR231058425-INP EUT INTERNAL PHOTOGRAPHS

6. TEST SETUP PHOTOGRAPHS

Please refer to the attachment CR231058425-00E-TSP TEST SETUP PHOTOGRAPHS.

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