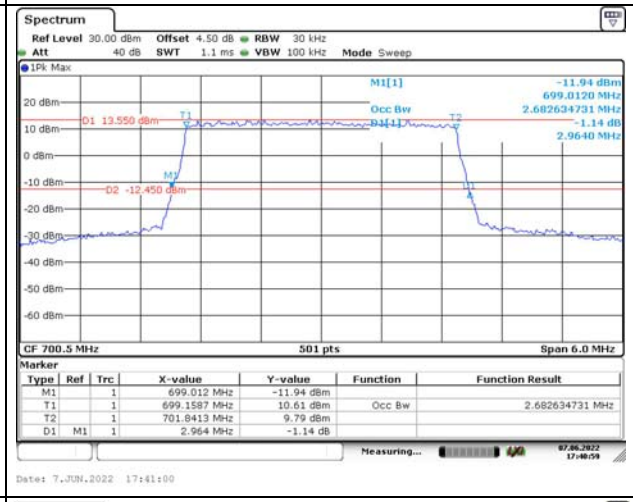
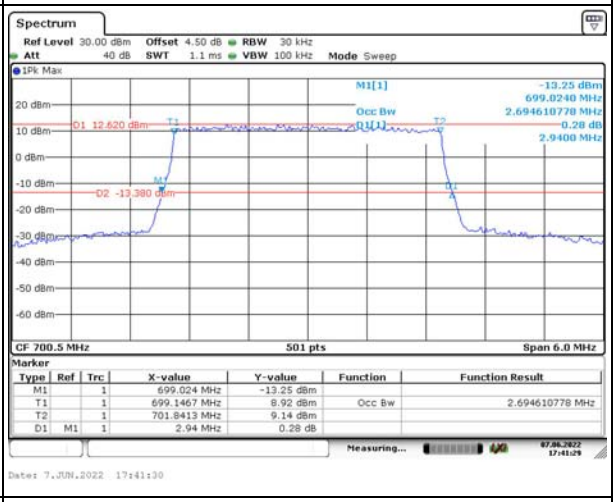
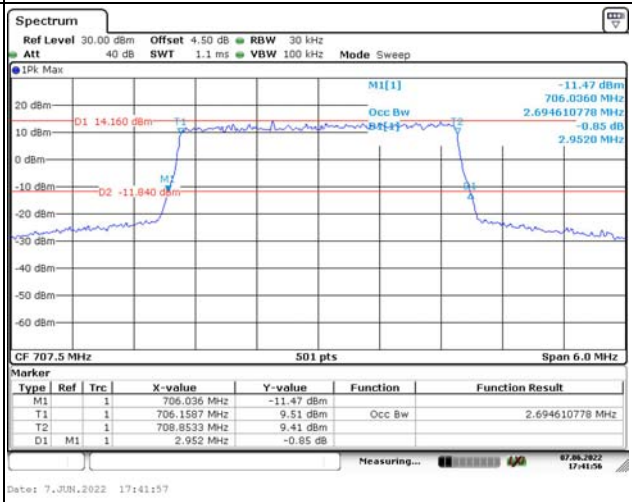
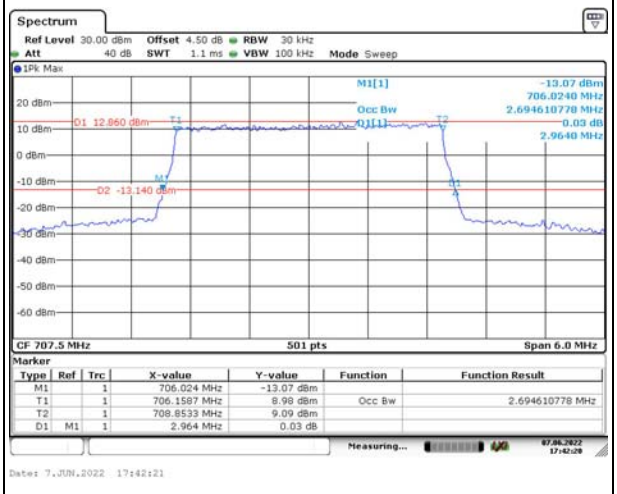
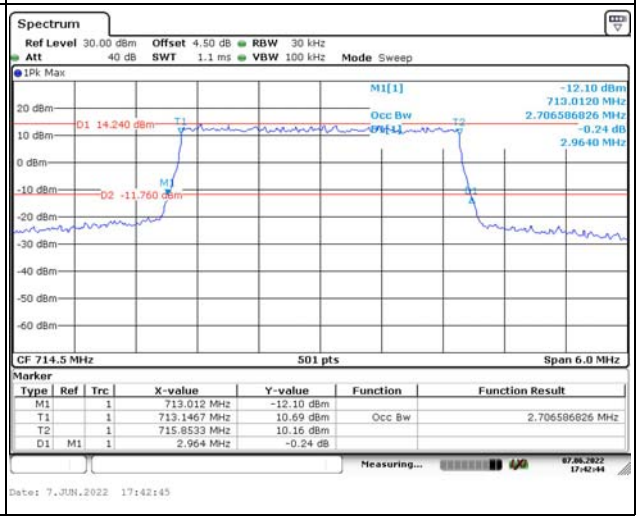
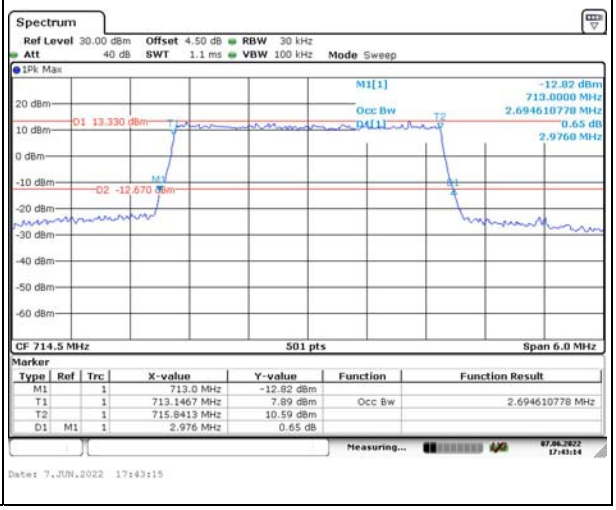
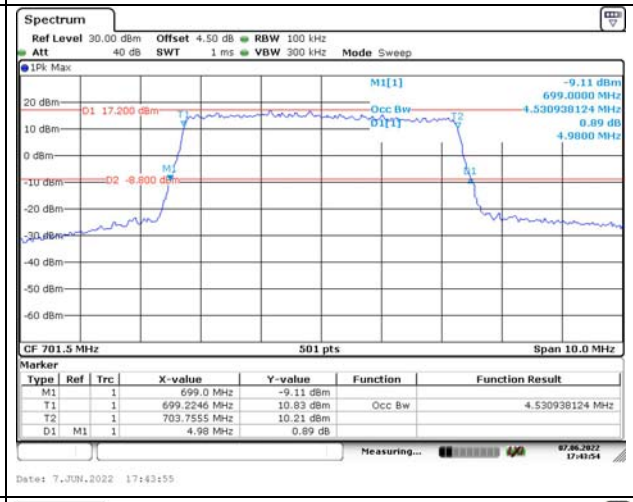
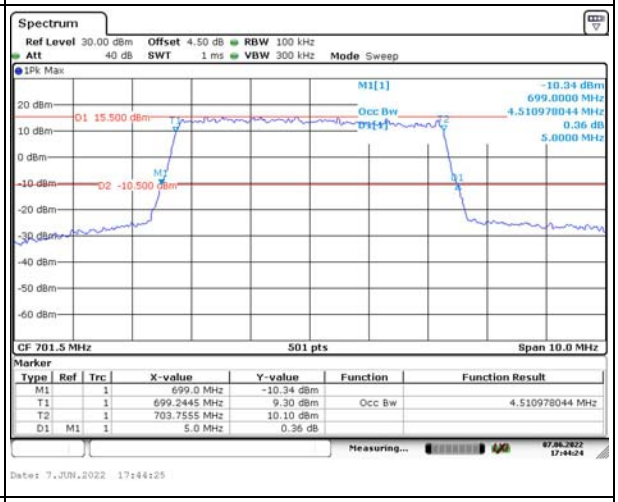
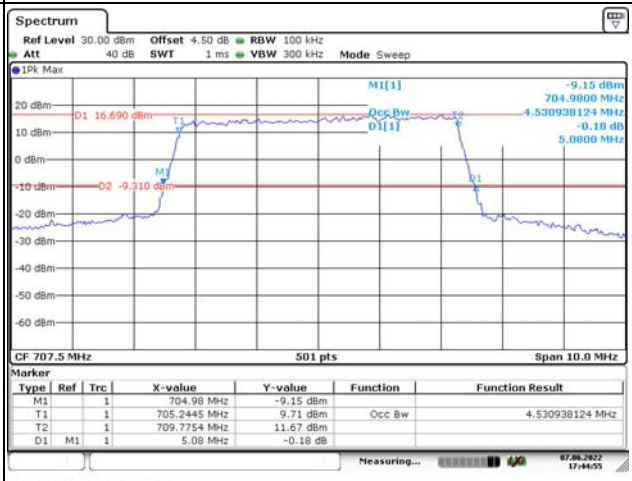
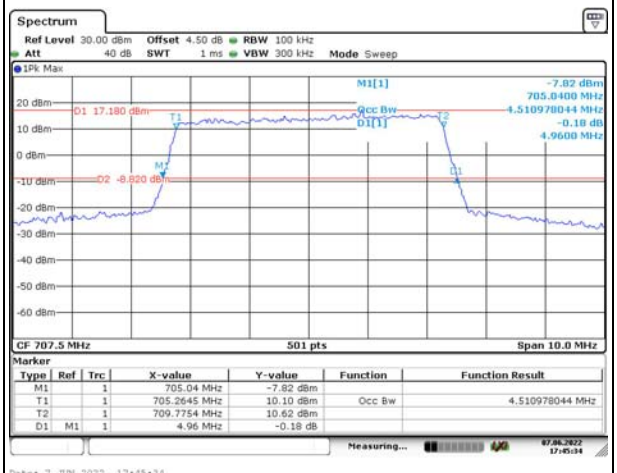
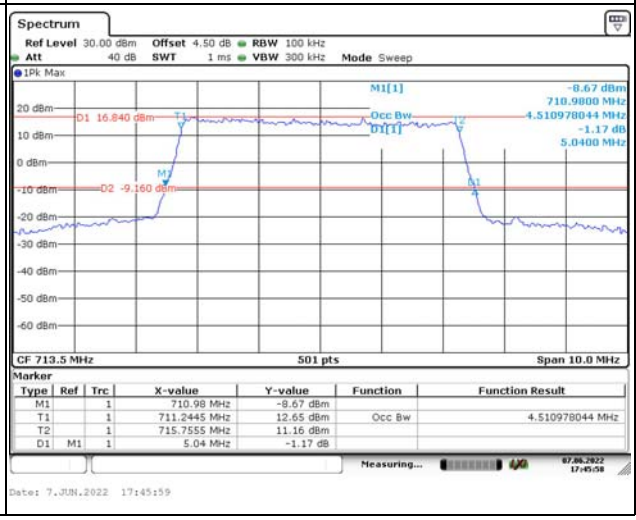
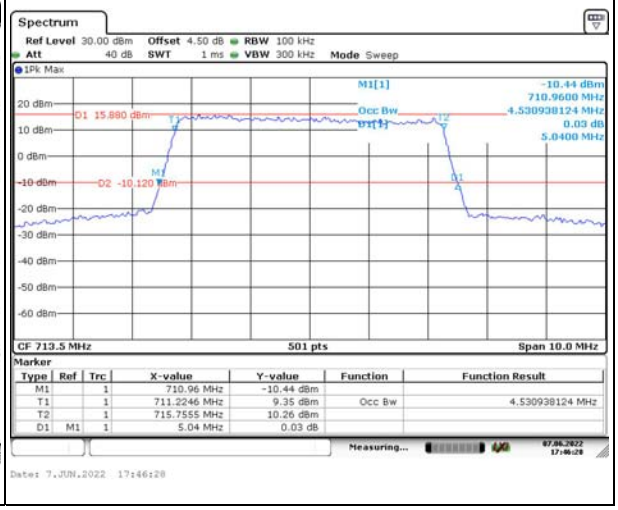
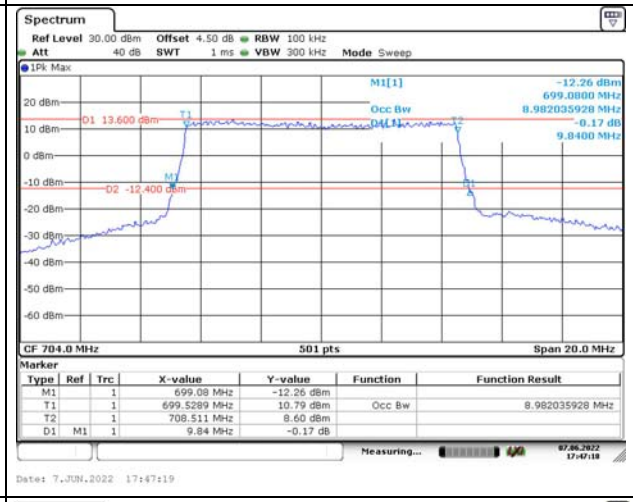
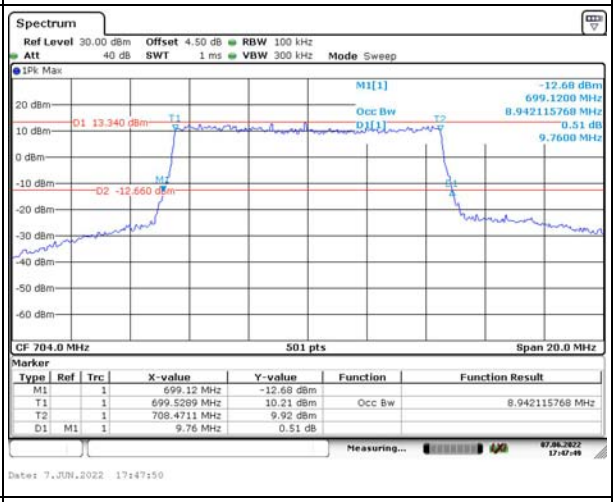
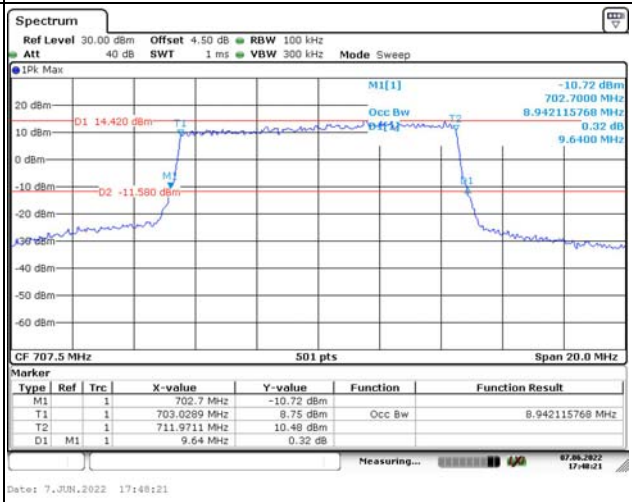
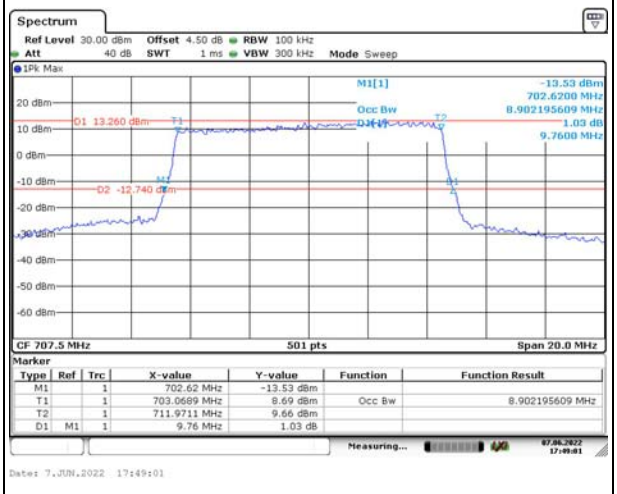
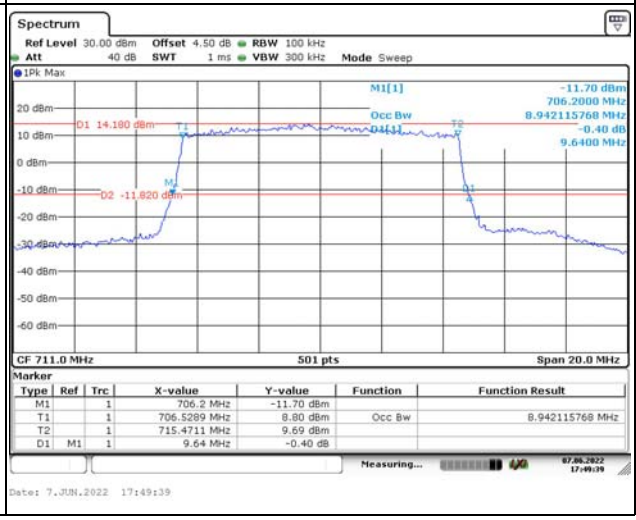
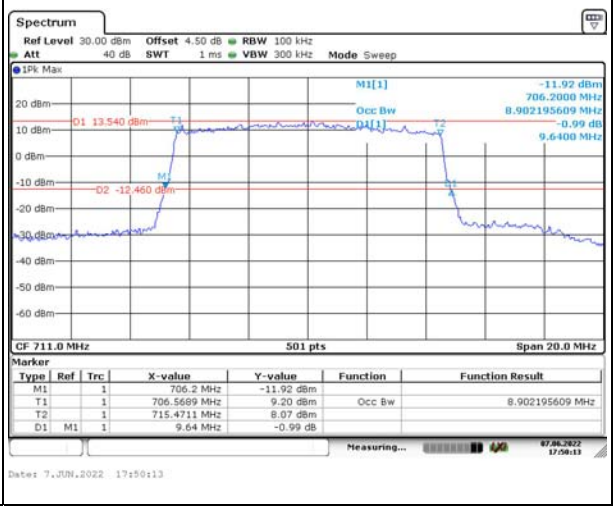
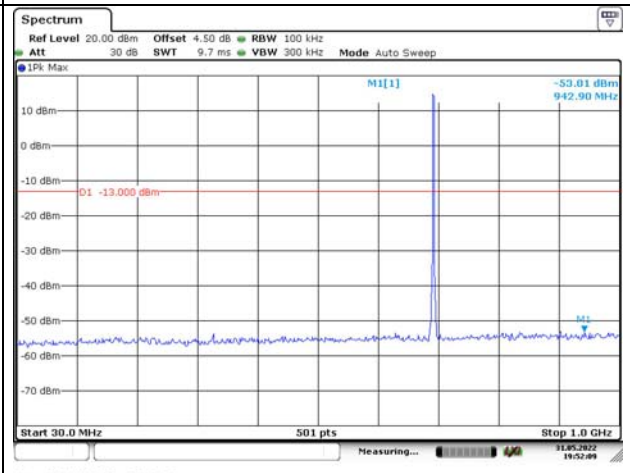
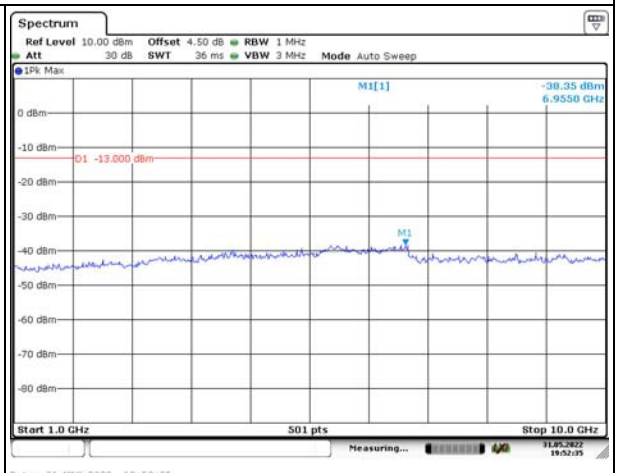
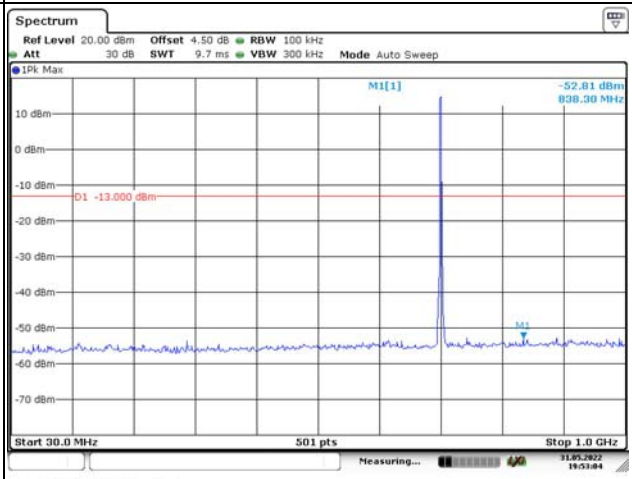
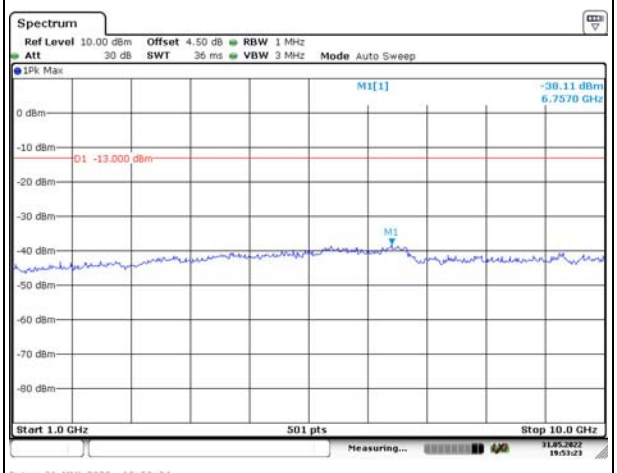
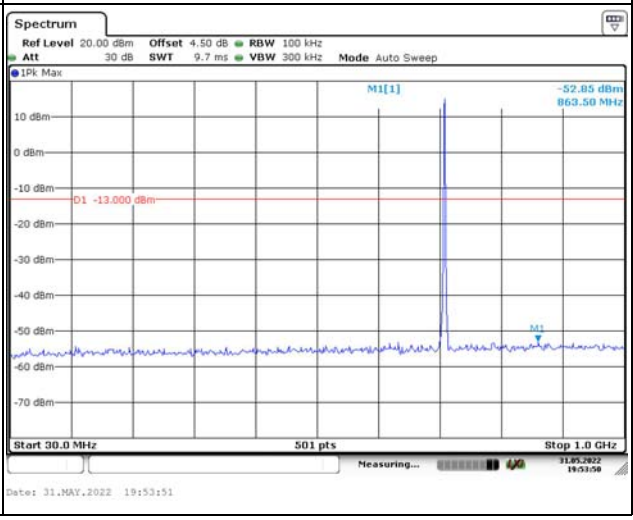
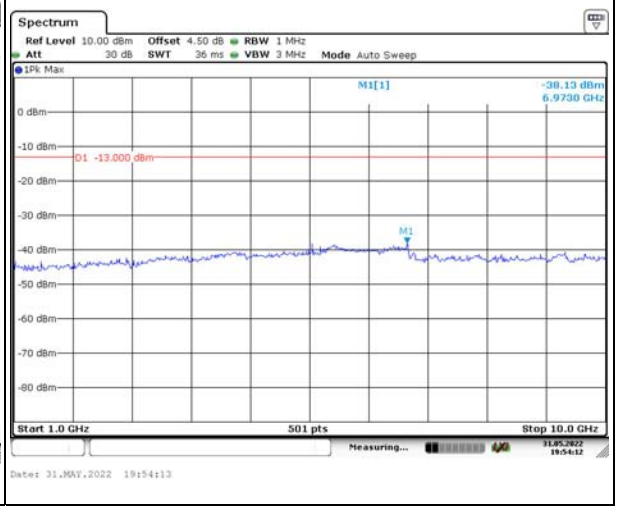
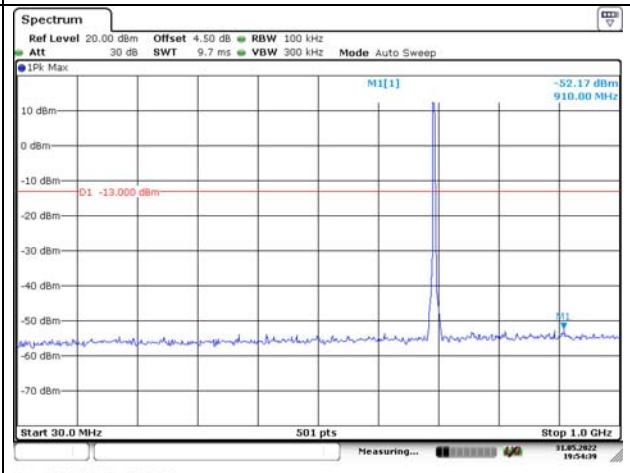
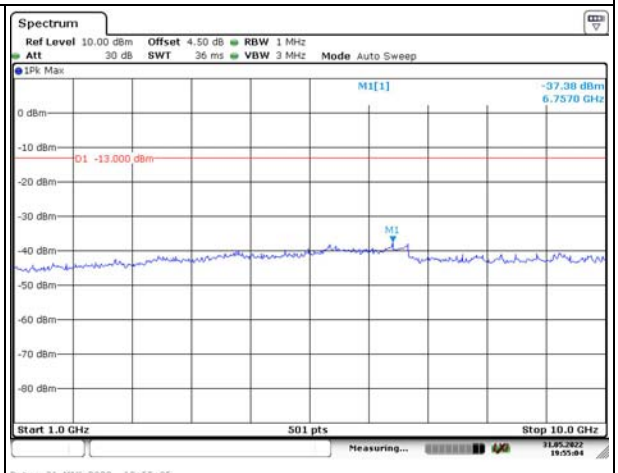
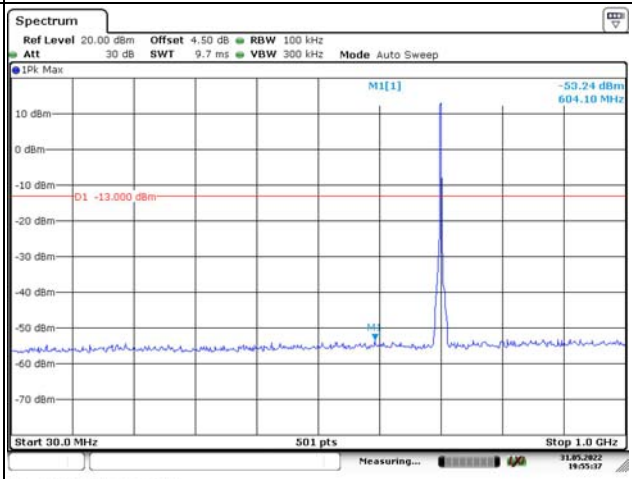
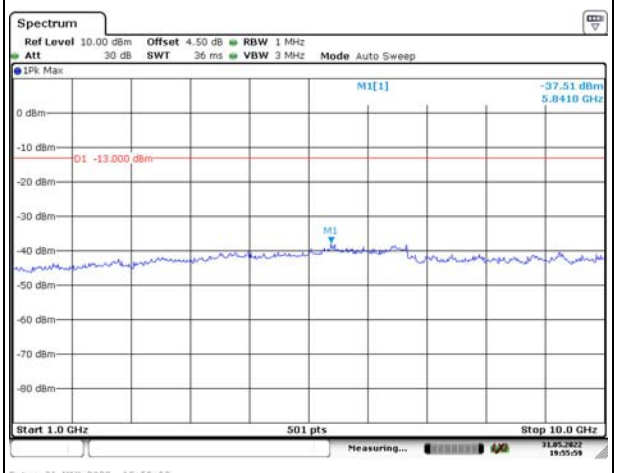
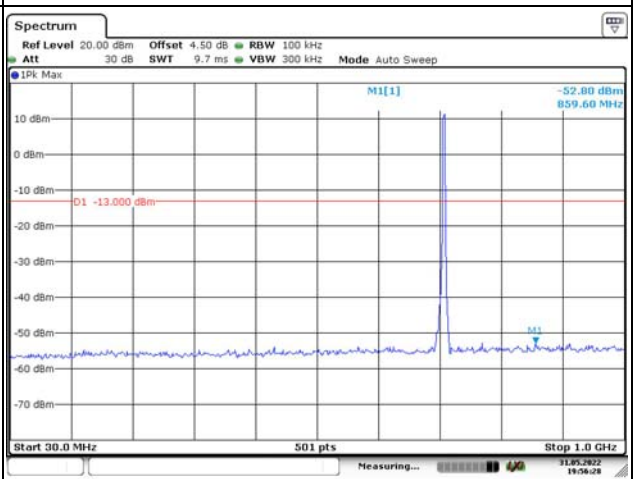
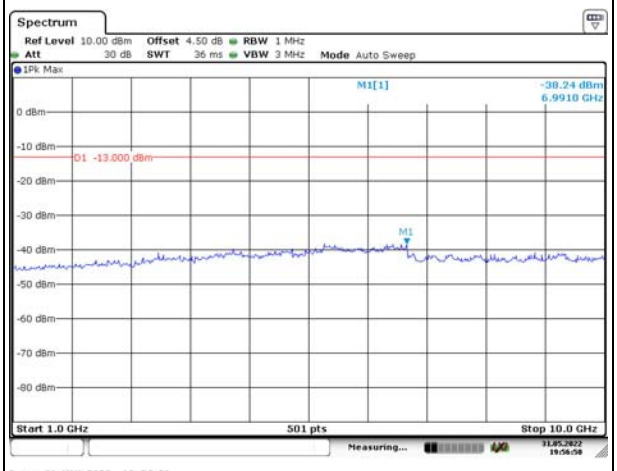
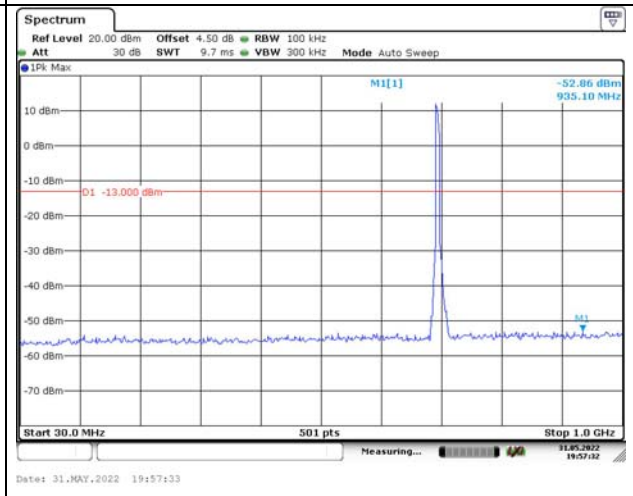
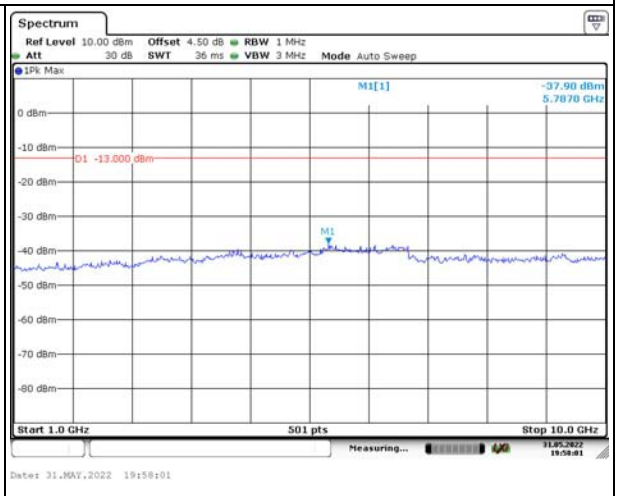
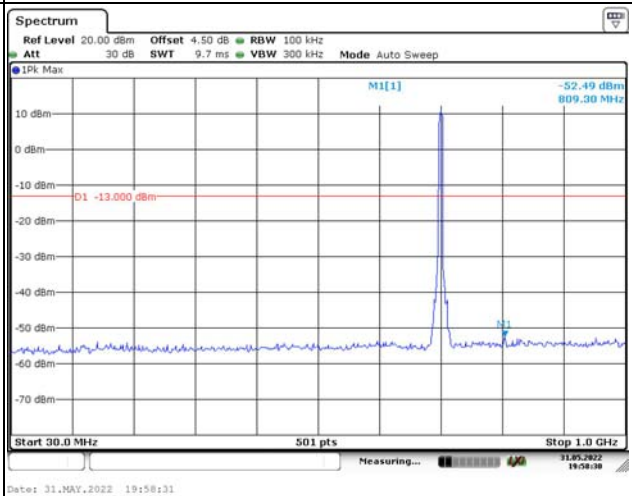
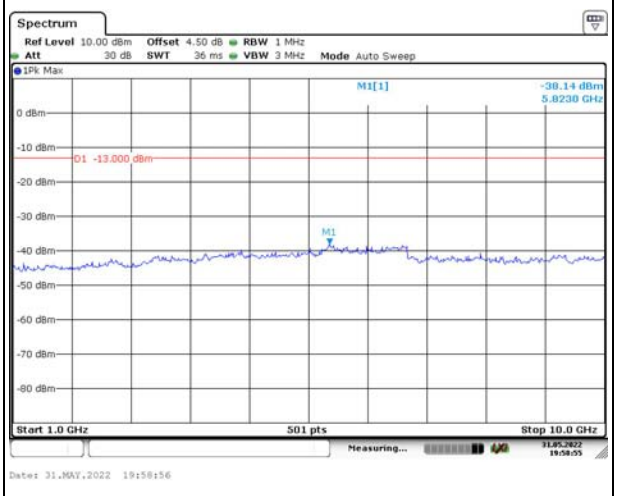
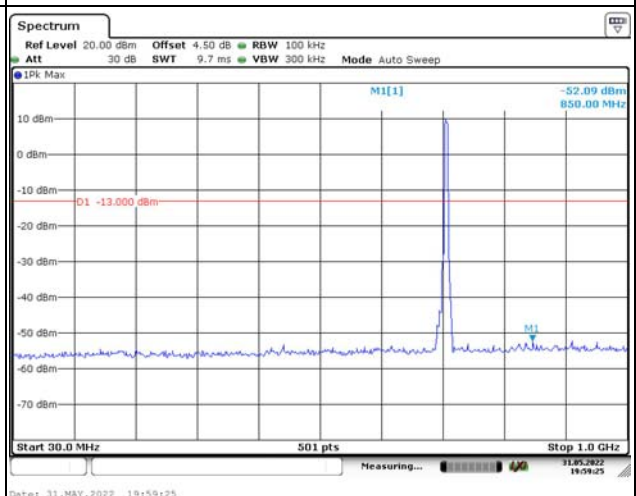
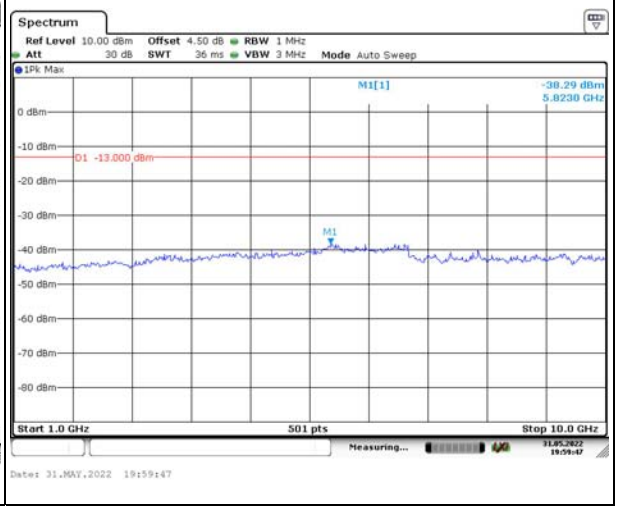
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

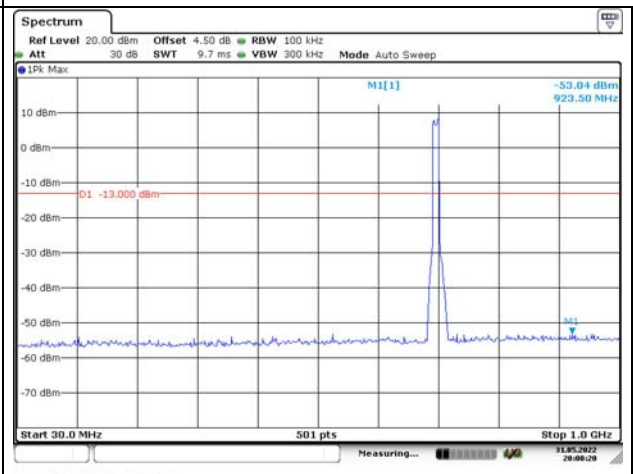
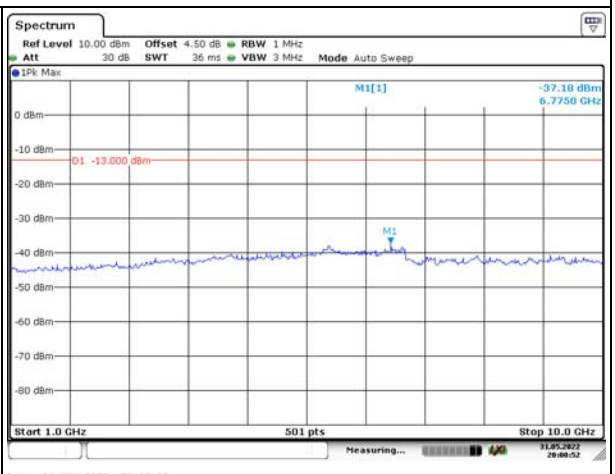
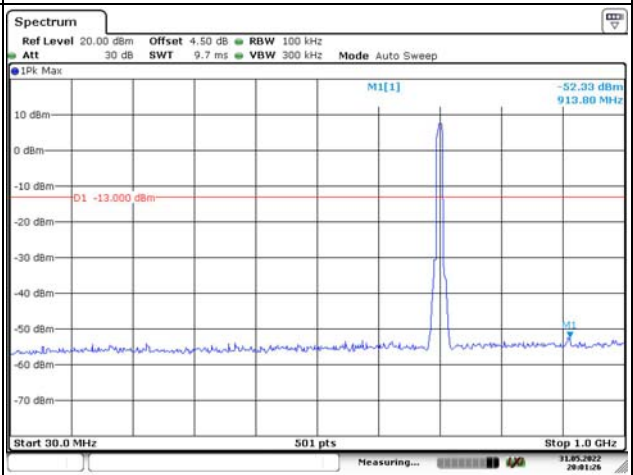
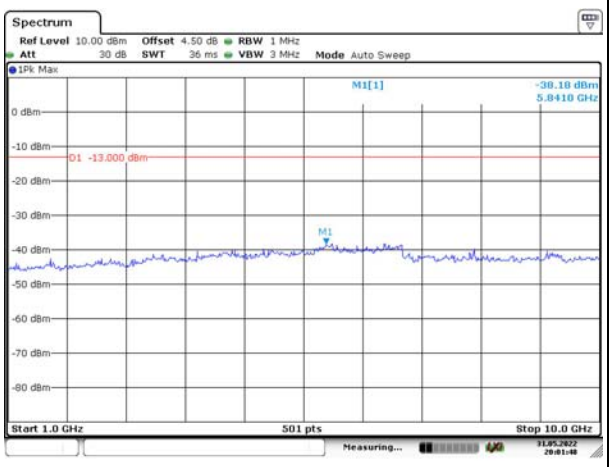
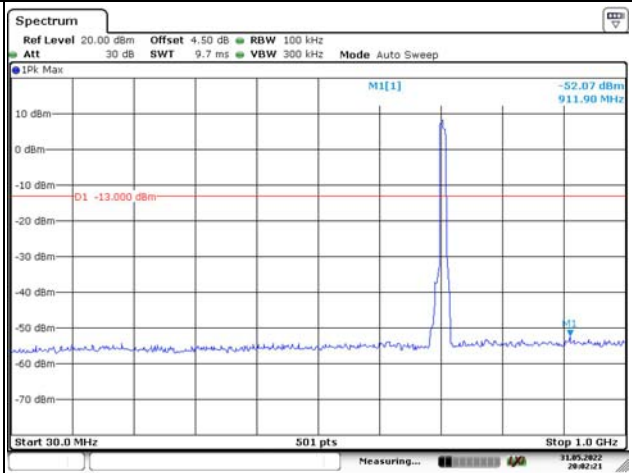
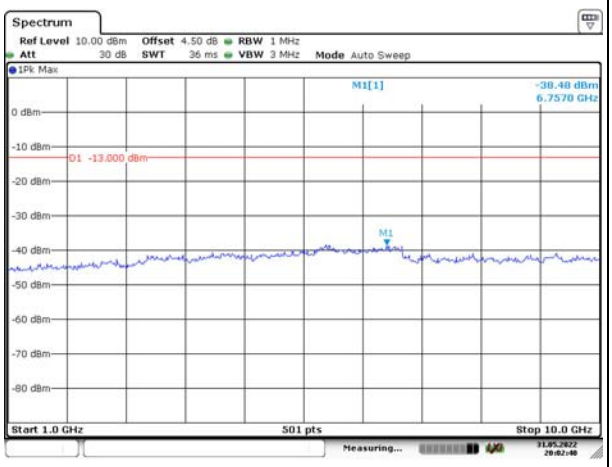
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

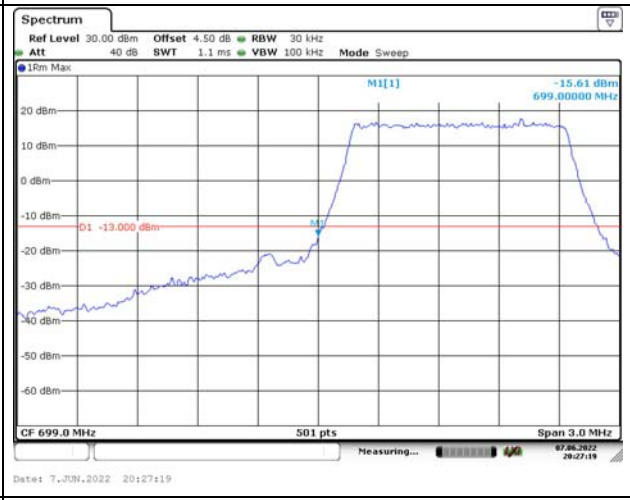
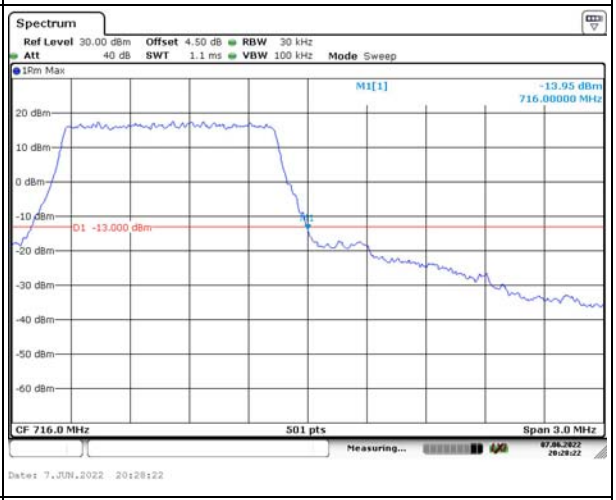
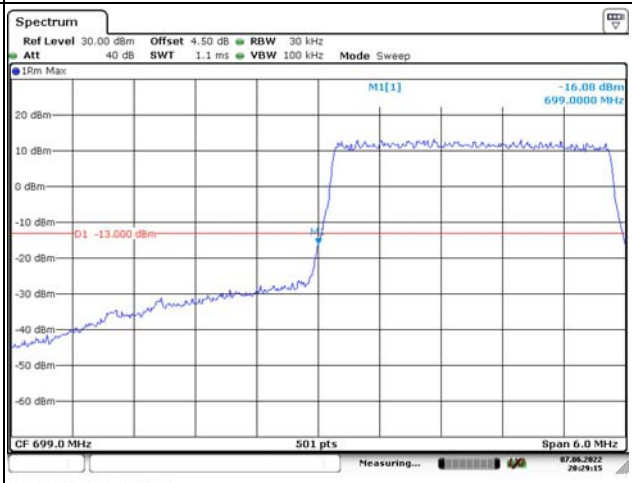
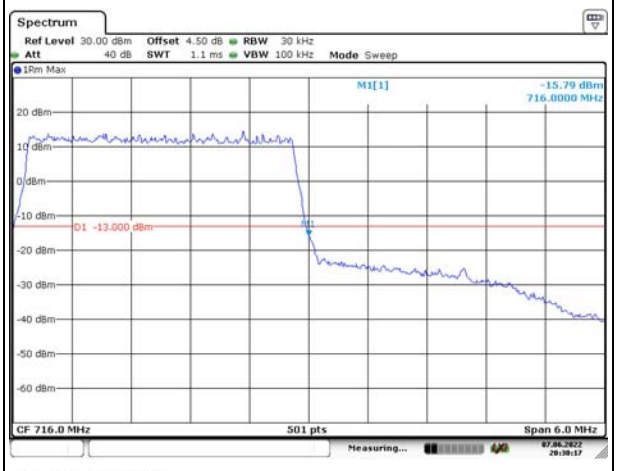
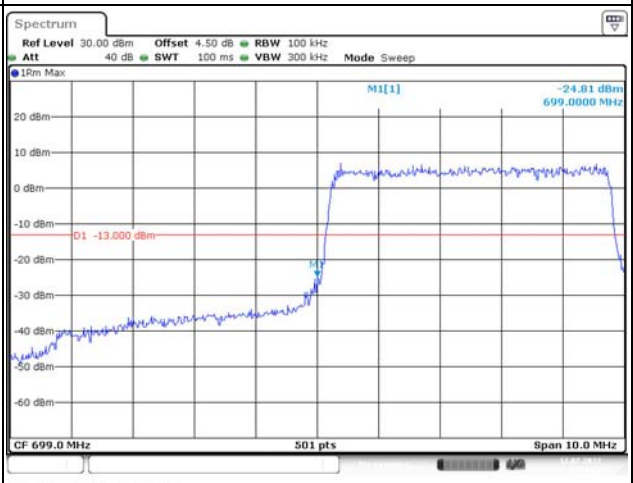
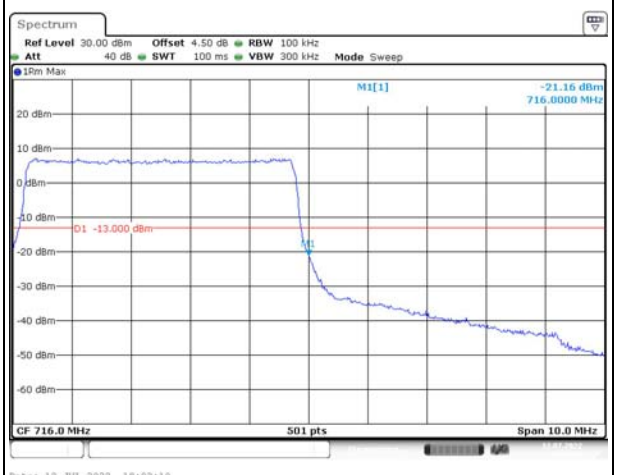
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

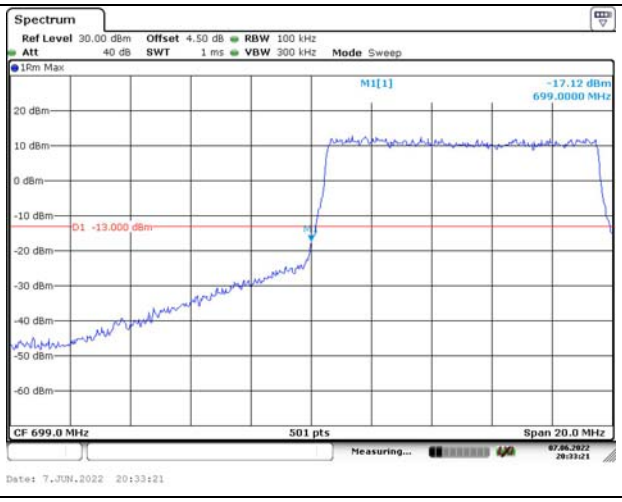
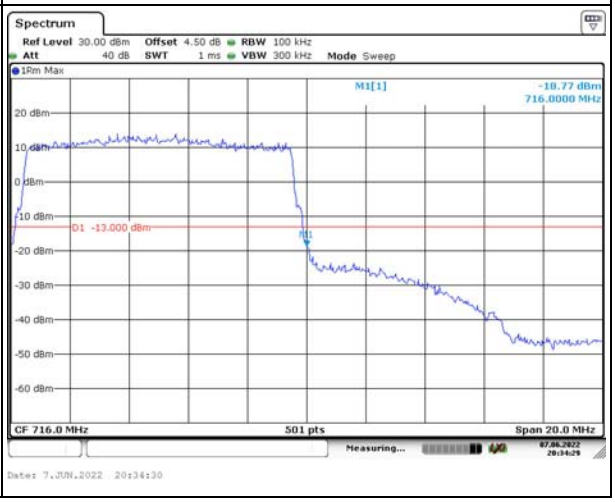
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

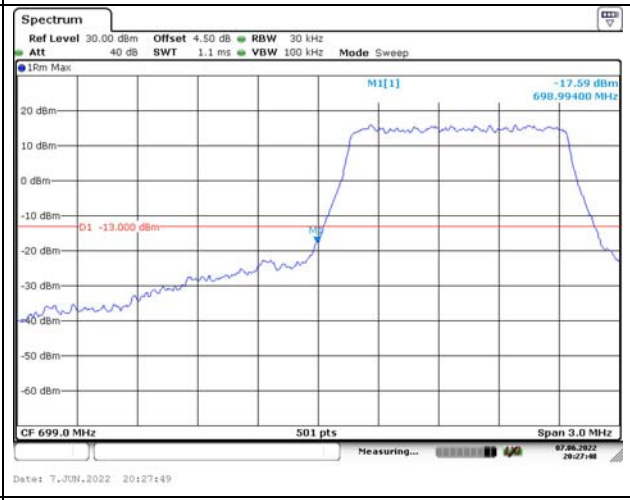
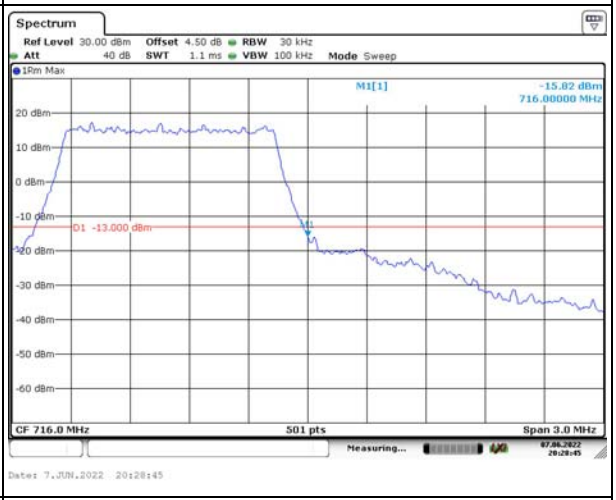
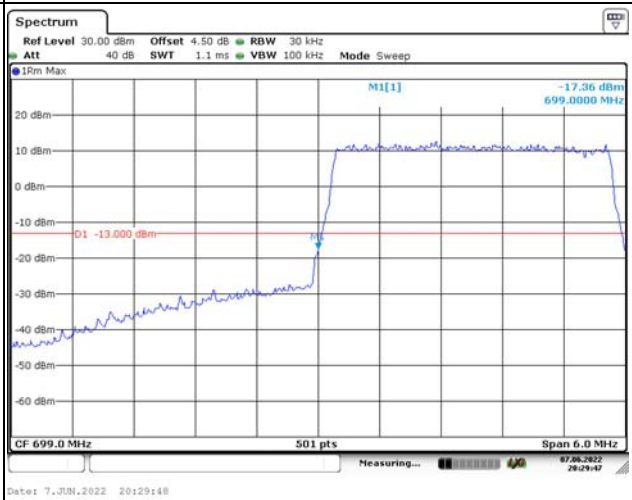
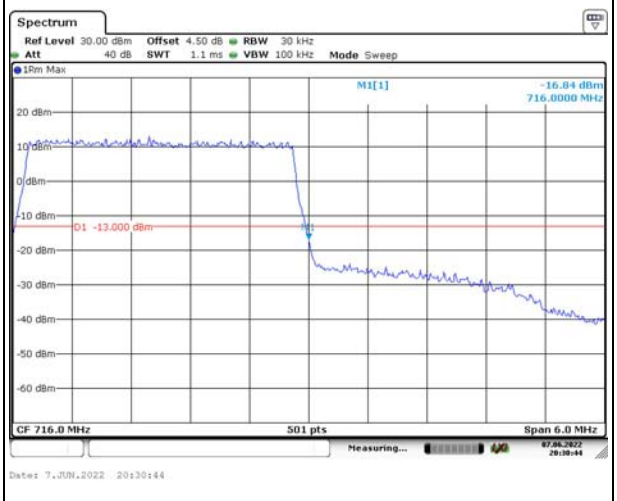
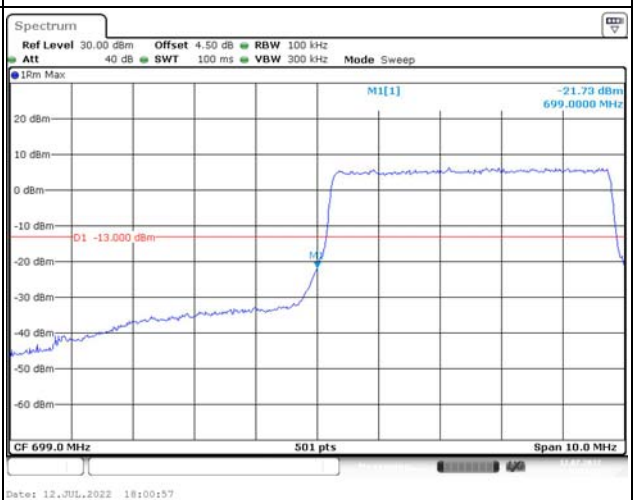
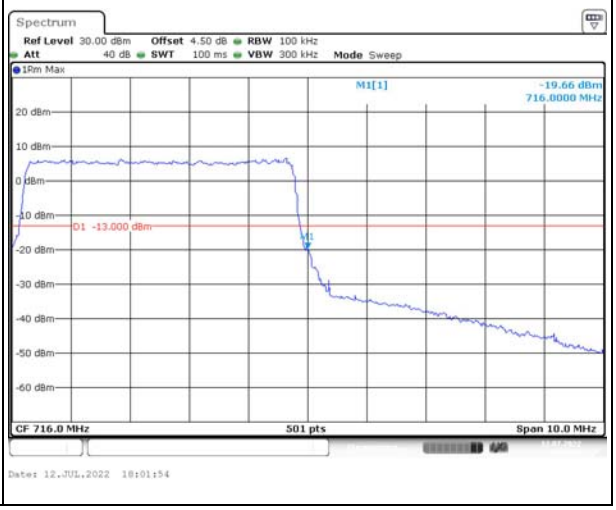
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

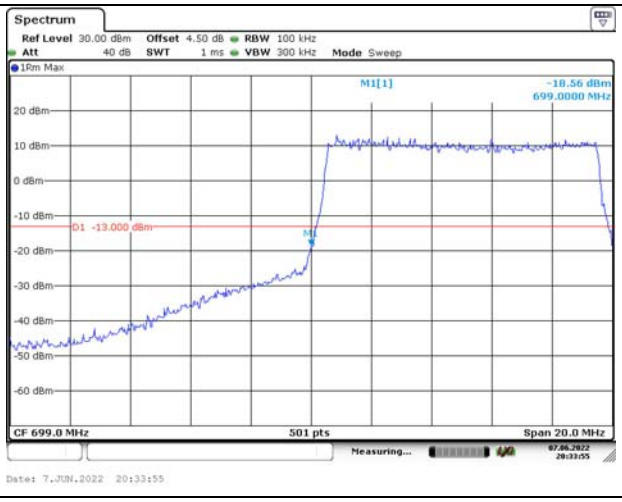
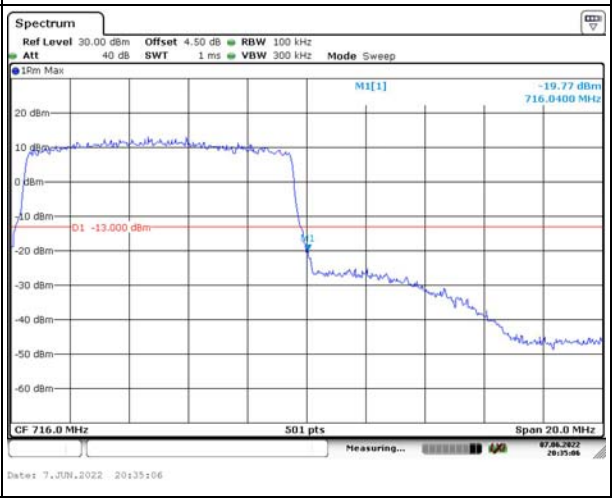
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

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

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

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

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

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

4.8Antenna Port Test Data and Results for LTE Band 13:

Serial Number:	CR22050036-RF-S1	Test Date:	2022-05-31~2022-07-05
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	25.5~26.7	Relative Humidity: (%)	63~68	ATM Pressure: (kPa)	100.1~99.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-07-22	2022-07-21
E-Microwave	Two-way Spliter	ODP-1-6	OE0120176	Each Time	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).*

EUT Information@LTE Band 13▲:					
Antenna Gain (dBi):	0.31	Antenna Gain (dBd):	-1.84	Cable Loss (dB):	0
Operation Voltage(V_{DC}):					
Lowest:	10.8	Normal:	13.8	Highest:	36

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	779.5	/	784.5
10MHz	/	782	/

Test Data:

FCC§2.1046;§ 27.50(c) (10)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	22.82	/	23.16	21.49	34.77
	RB1#13	22.98	/	23.07		
	RB1#24	23.03	/	23.33		
	RB15#0	22.16	/	22.27		
	RB15#10	22.14	/	22.23		
	RB25#0	22.14	/	22.33		
5MHz 16QAM	RB1#0	21.81	/	22.31	20.5	34.77
	RB1#13	22.2	/	22.01		
	RB1#24	22.19	/	22.34		
	RB15#0	21.12	/	21.22		
	RB15#10	21.13	/	21.19		
	RB25#0	21.13	/	21.24		
10MHz QPSK	RB1#0	/	23.09	/	21.65	34.77
	RB1#25	/	23.33	/		
	RB1#49	/	23.49	/		
	RB25#0	/	22.2	/		
	RB25#25	/	22.29	/		
	RB50#0	/	22.26	/		
10MHz 16QAM	RB1#0	/	21.99	/	20.52	34.77
	RB1#25	/	22.19	/		
	RB1#49	/	22.36	/		
	RB25#0	/	21.14	/		
	RB25#25	/	21.23	/		
	RB50#0	/	21.24	/		
Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)						
					Result:	**Pass**

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	/	4.29	/	13
	RB50#0	/	4.46	/	13
10MHz 16QAM	RB1#0	/	5.39	/	13
	RB50#0	/	5.62	/	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	4.51	/	4.51	5.02	/	5.04
5MHz 16QAM	4.49	/	4.53	5.04	/	5.04
10MHz QPSK	/	8.94	/	/	9.72	/
10MHz 16QAM	/	8.94	/	/	9.68	/
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.**

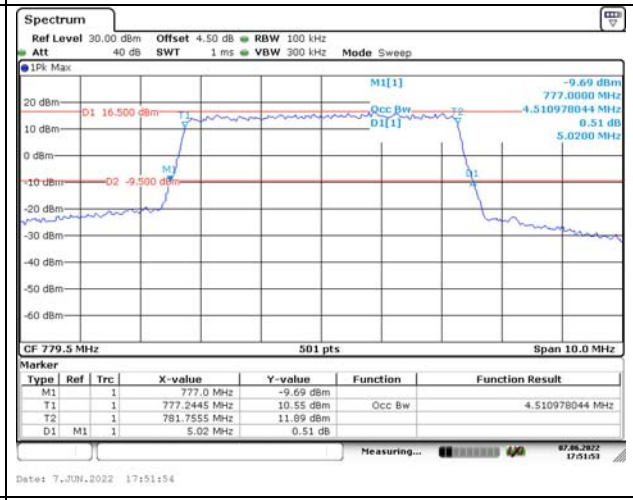
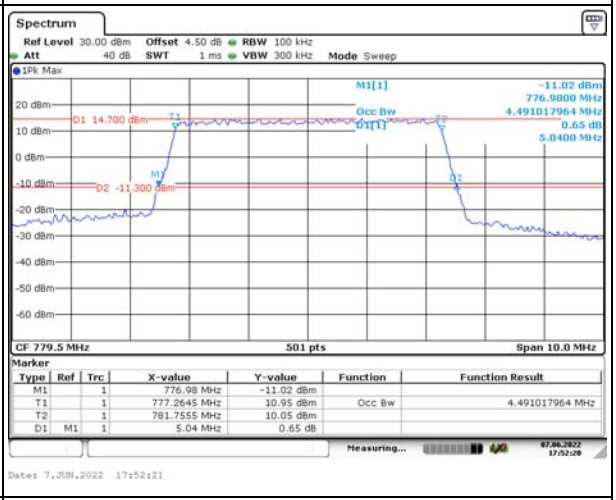
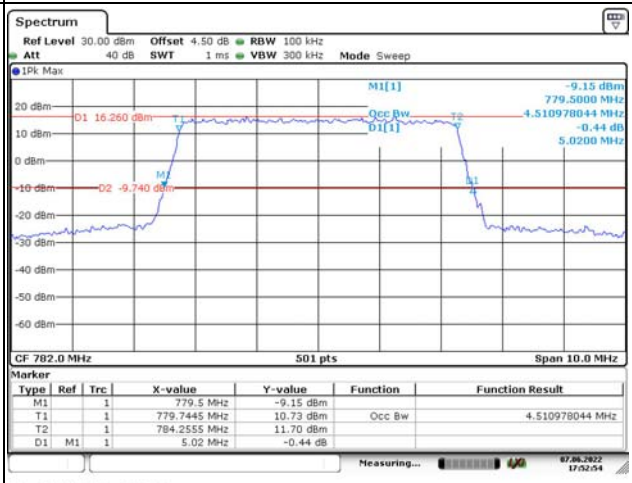
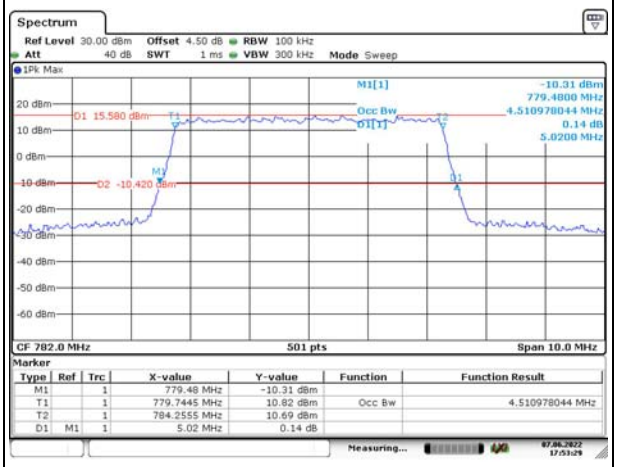
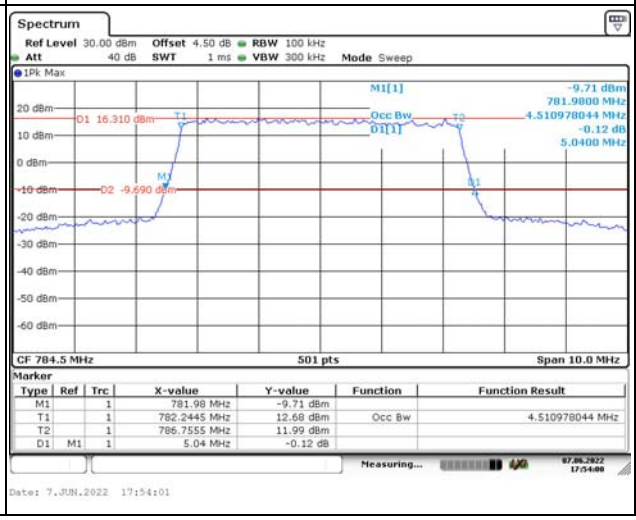
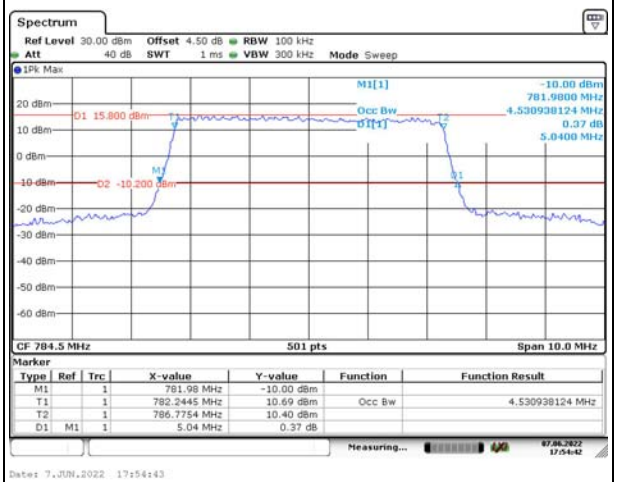
FCC §2.1051, §27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

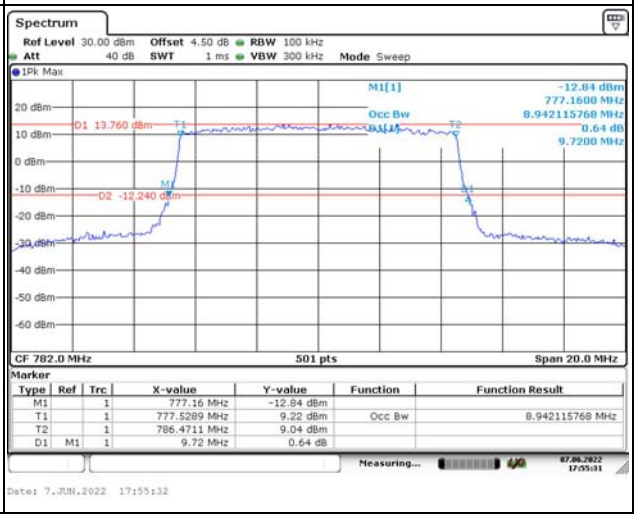
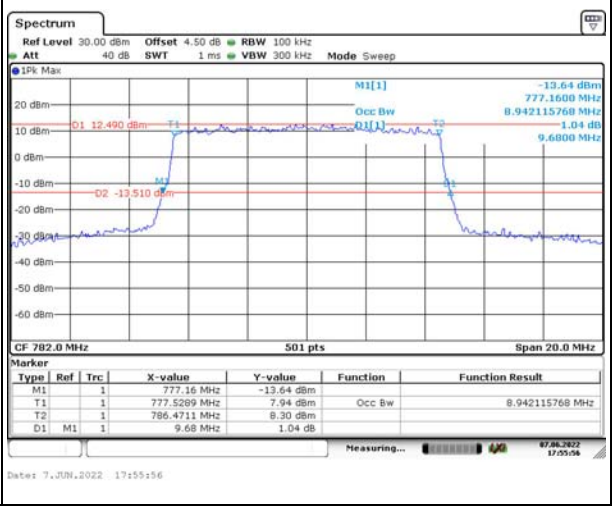
FCC §2.1055, §27.54: Frequency Stability

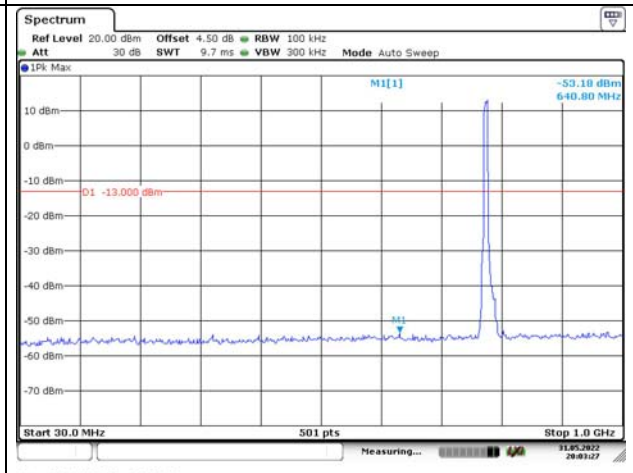
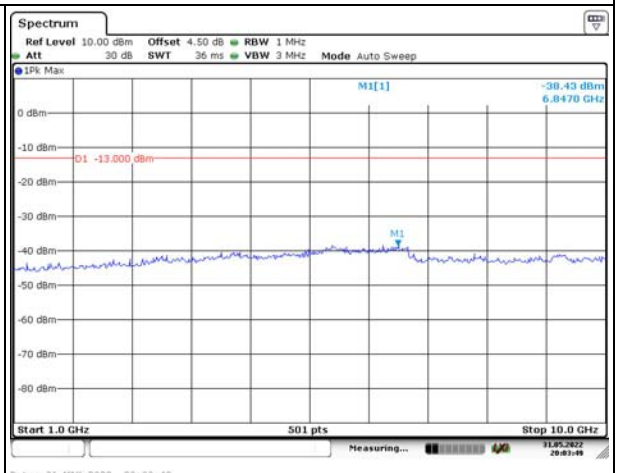
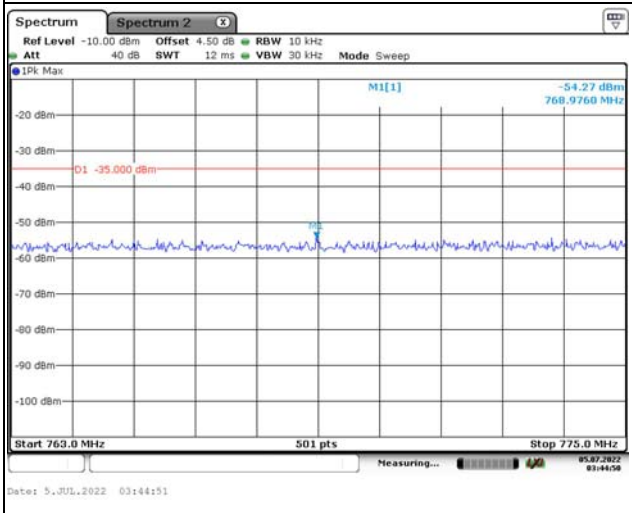
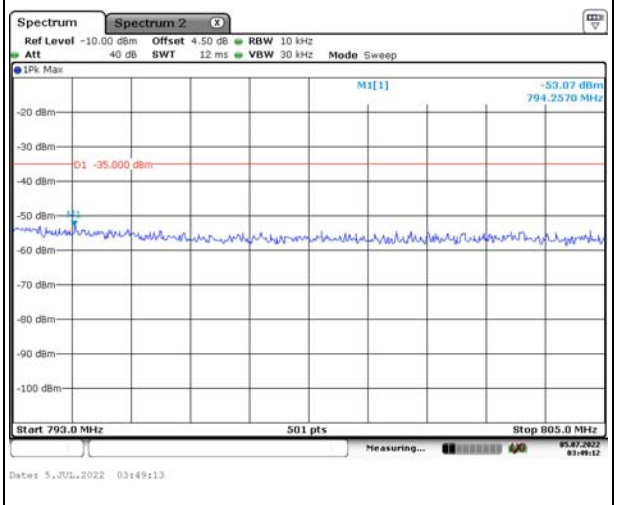
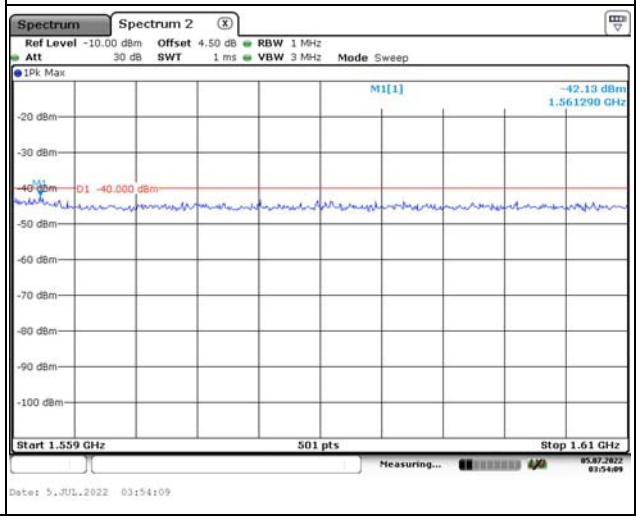
Test Mode:	10M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	777.537	777.00	786.471	787.00
	-20	13.8	777.534	777.00	786.483	787.00
	-10	13.8	777.536	777.00	786.482	787.00
	0	13.8	777.530	777.00	786.472	787.00
	10	13.8	777.531	777.00	786.480	787.00
	20	13.8	777.529	777.00	786.471	787.00
	30	13.8	777.531	777.00	786.481	787.00
	40	13.8	777.530	777.00	786.480	787.00
	50	13.8	777.541	777.00	786.476	787.00
Frequency Stability vs. Voltage	20	10.8	777.532	777.00	786.474	787.00
	20	36	777.541	777.00	786.483	787.00
					Result:	**Pass**

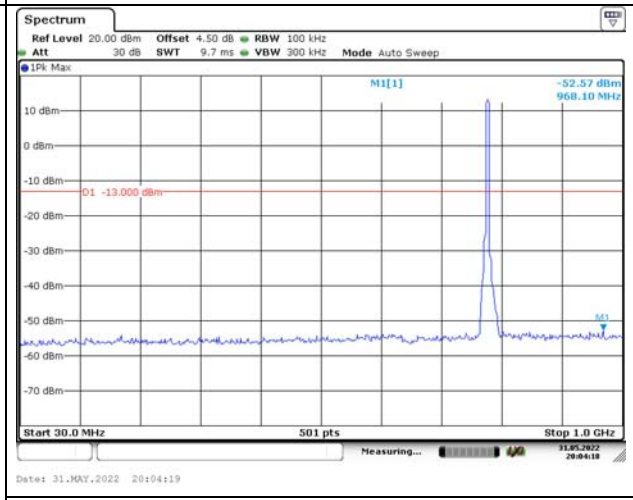
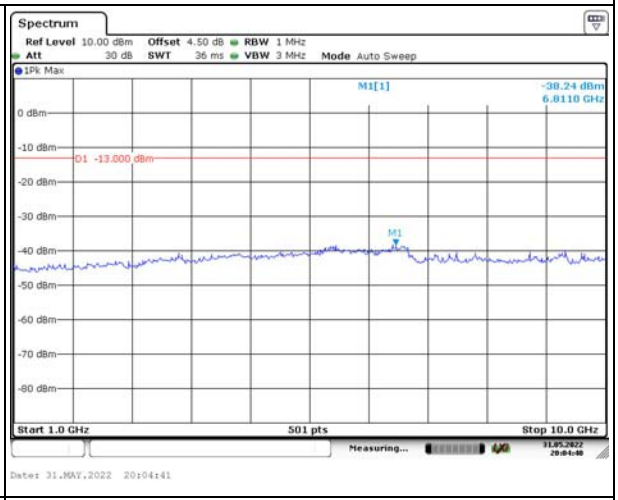
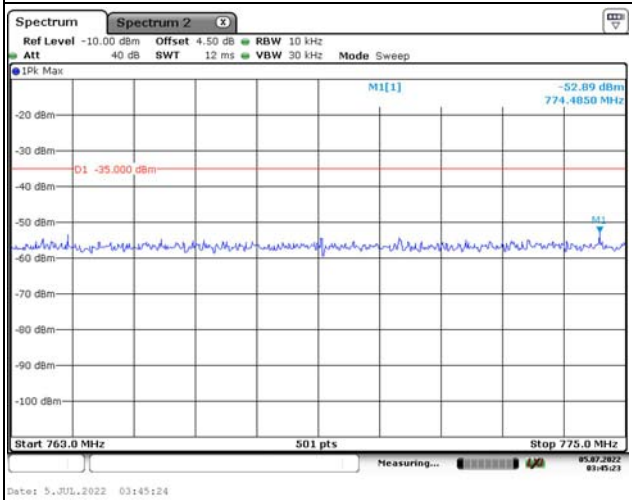
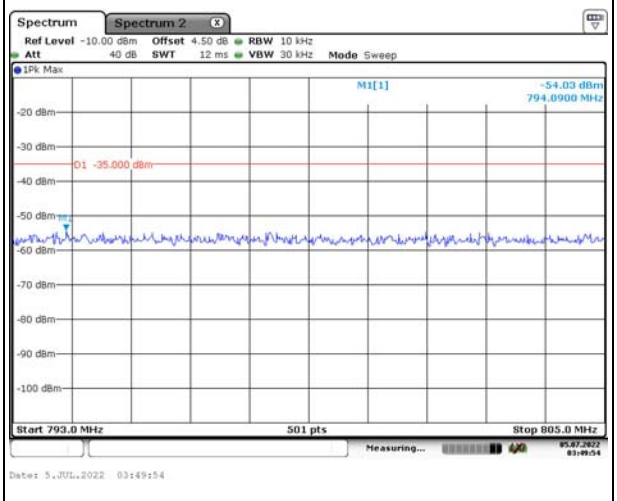
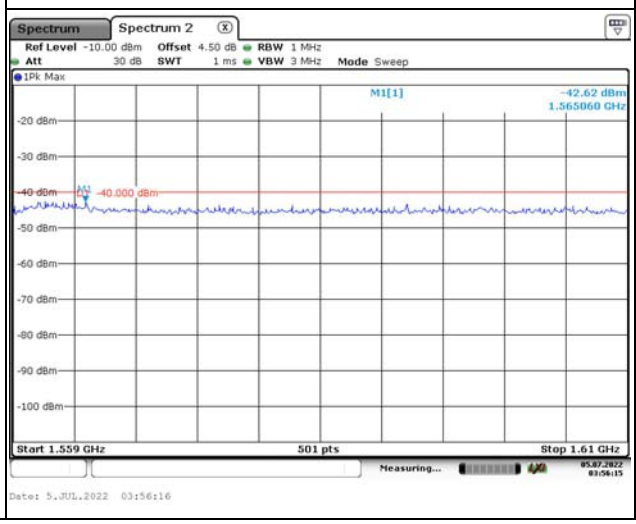
Test Mode:	10M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	777.536	777.00	786.480	787.00
	-20	13.8	777.533	777.00	786.483	787.00
	-10	13.8	777.541	777.00	786.472	787.00
	0	13.8	777.532	777.00	786.472	787.00
	10	13.8	777.539	777.00	786.483	787.00
	20	13.8	777.529	777.00	786.471	787.00
	30	13.8	777.541	777.00	786.475	787.00
	40	13.8	777.539	777.00	786.476	787.00
	50	13.8	777.533	777.00	786.475	787.00
Frequency Stability vs. Voltage	20	10.8	777.539	777.00	786.479	787.00
	20	36	777.538	777.00	786.485	787.00
					Result:	**Pass**

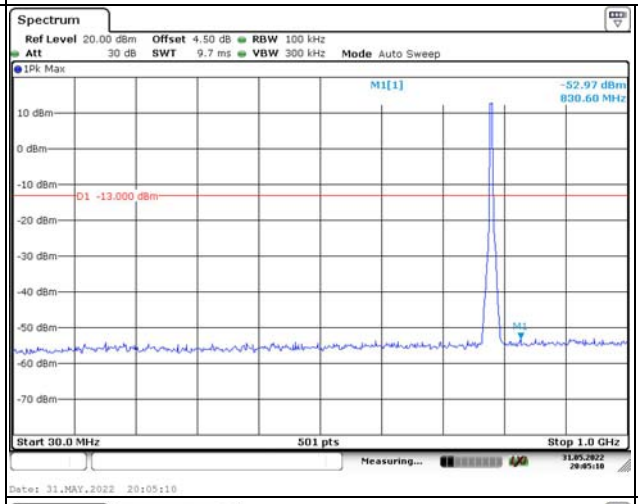
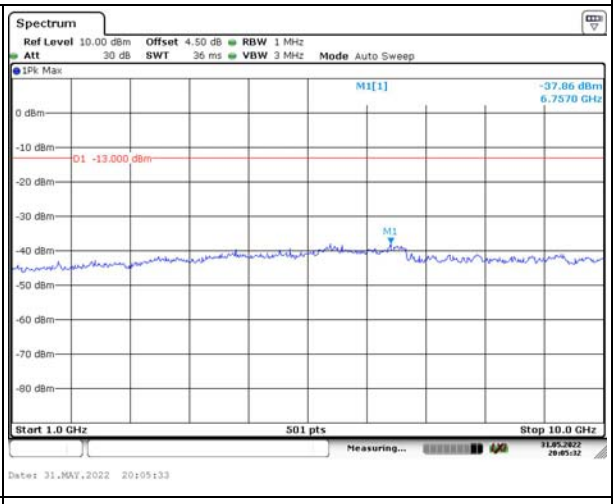
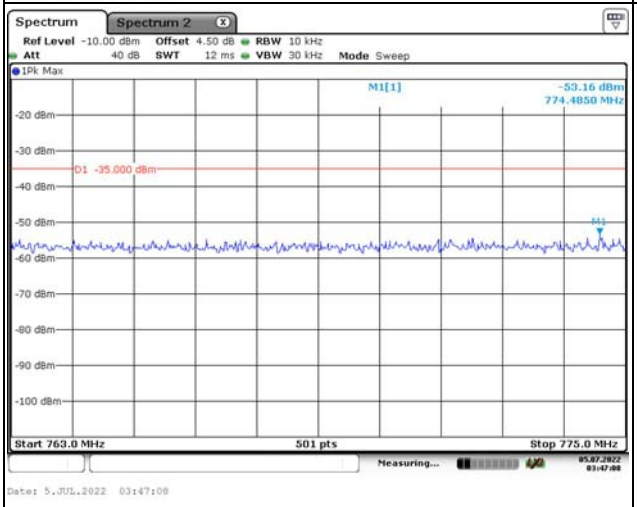
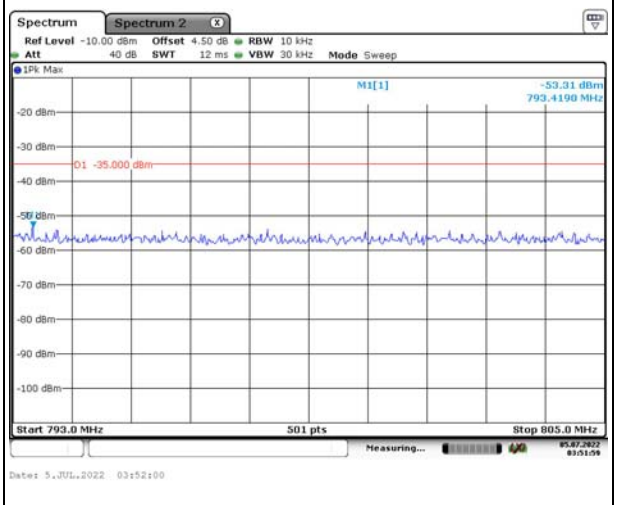
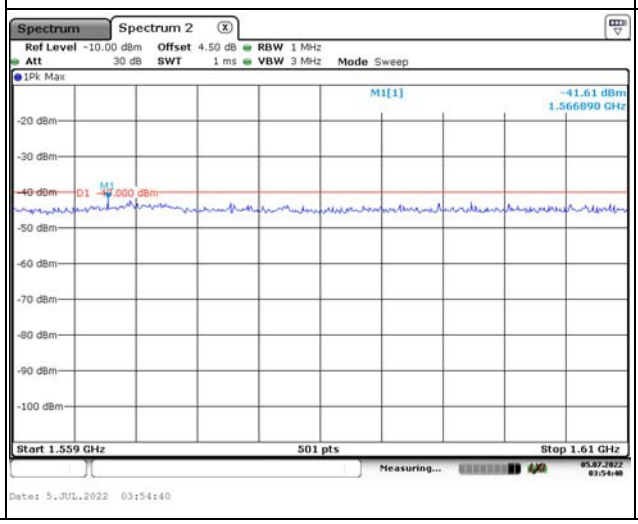
Test Plots:

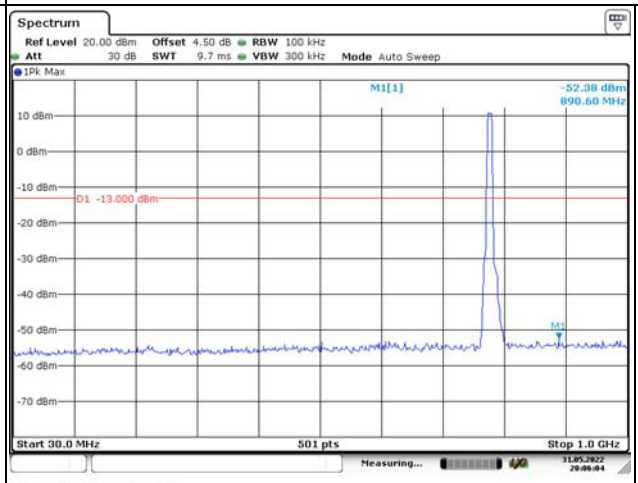
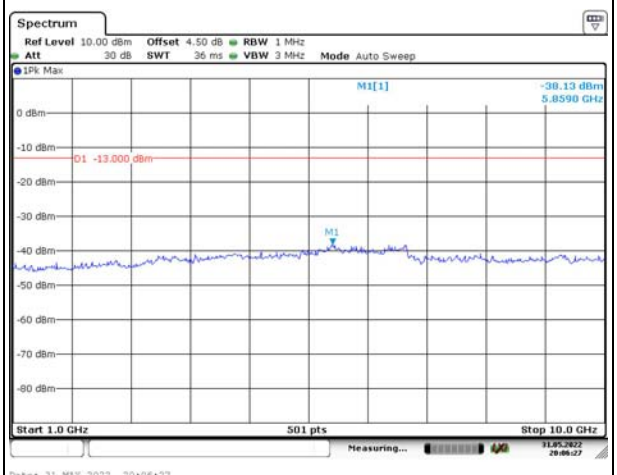
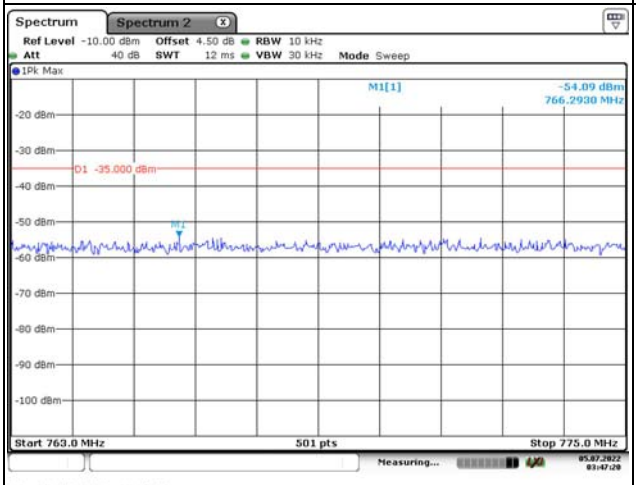
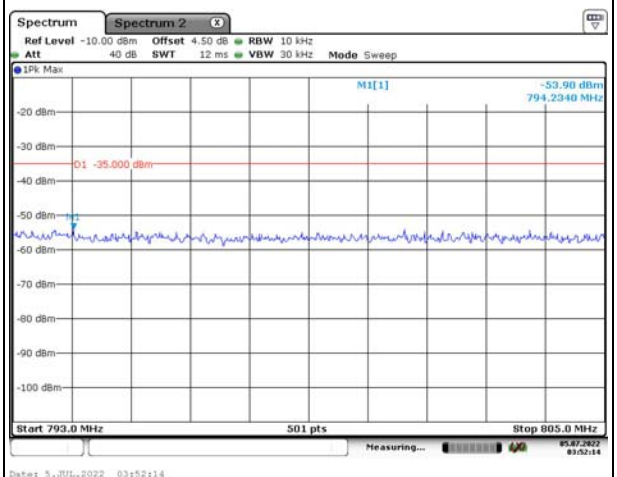
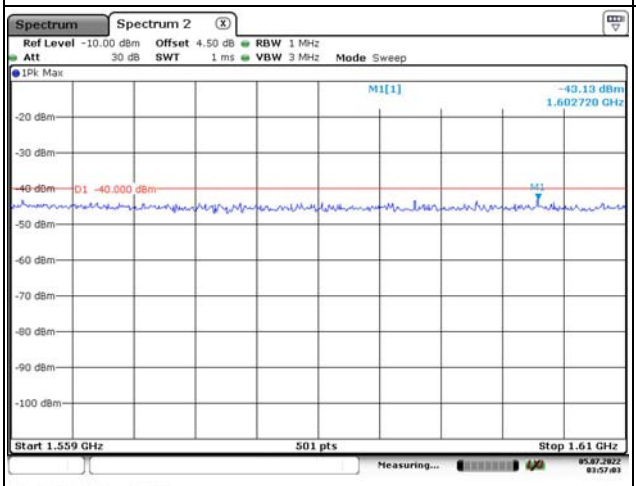
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

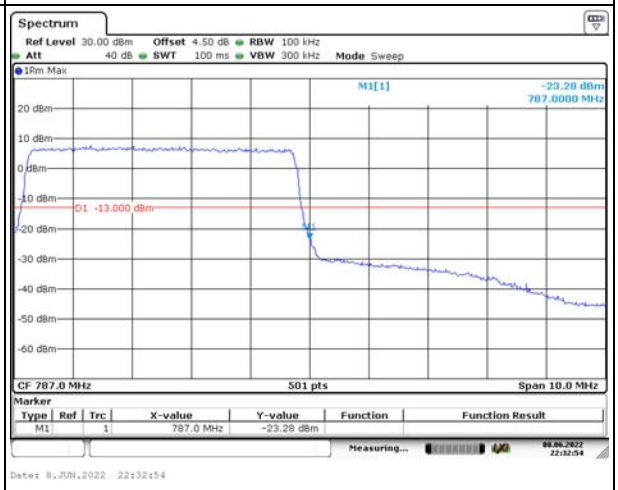
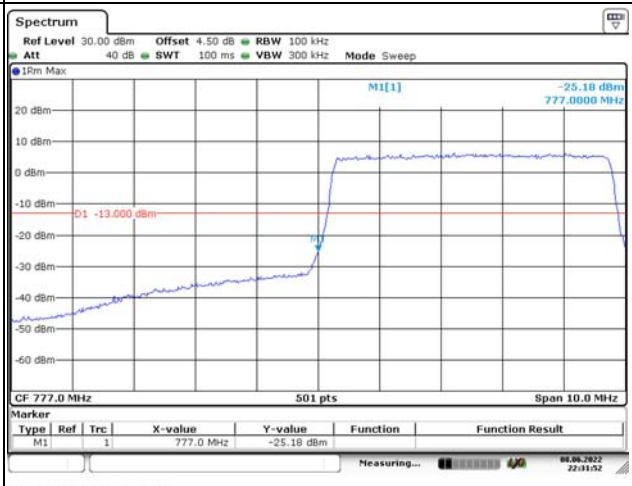
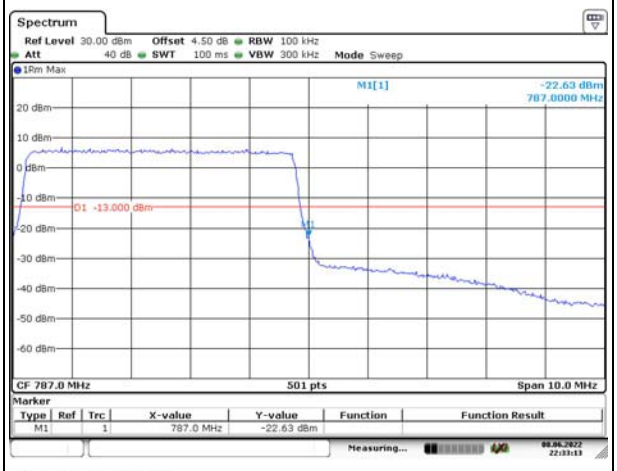
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Middle		

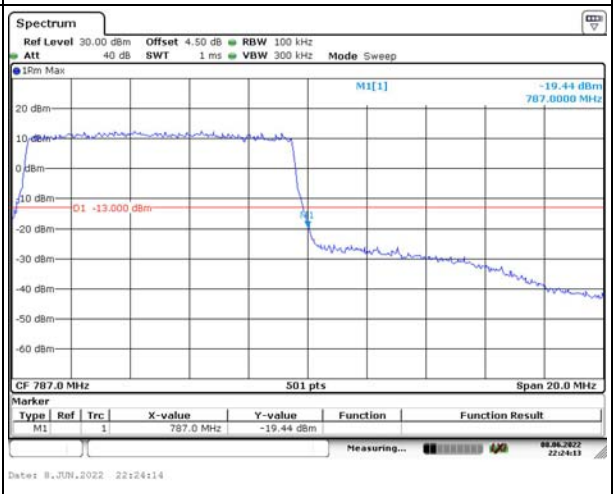
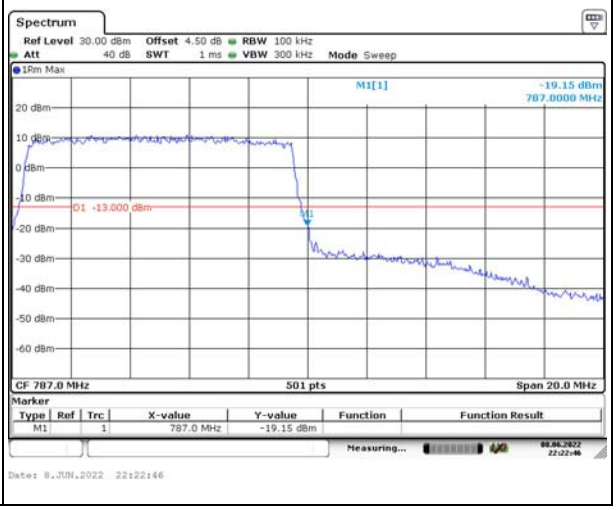
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
		
		

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

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

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

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

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

4.9 Antenna Port Test Data and Results for LTE Band 14:

Serial Number:	CR22050036-RF-S1	Test Date:	2022-05-31~2022-08-22
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	25.0~25.5	Relative Humidity: (%)	63~68	ATM Pressure: (kPa)	100.0~100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
R&S	Spectrum Analyzer	FSV40	101474	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2022-07-21
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022-04-06	2023-04-05
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
E-Microwave	Two-way Spliter	ODP-1-6	OE0120176	Each Time	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).*

EUT Information@LTE Band 14▲:					
Antenna Gain (dBi):	-0.29	Antenna Gain (dBd):	-2.44	Cable Loss (dB):	0
Operation Voltage(V_{DC}):					
Lowest:	10.8	Normal:	13.8	Highest:	36

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
5MHz	790.5	/	795.5
10MHz	/	793	/

Test Data:

FCC§2.1046;§ 90.542						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
5MHz QPSK	RB1#0	23.24	/	23.21	20.82	34.77
	RB1#13	23.22	/	23.26		
	RB1#24	23.26	/	23.23		
	RB15#0	22.37	/	22.28		
	RB15#10	22.33	/	22.31		
	RB25#0	22.35	/	22.28		
5MHz 16QAM	RB1#0	22.17	/	22.21	19.85	34.77
	RB1#13	22.23	/	22.29		
	RB1#24	22.26	/	22.2		
	RB15#0	21.3	/	21.2		
	RB15#10	21.24	/	21.23		
	RB25#0	21.26	/	21.25		
10MHz QPSK	RB1#0	/	23.33	/	20.98	34.77
	RB1#25	/	23.42	/		
	RB1#49	/	23.38	/		
	RB25#0	/	22.29	/		
	RB25#25	/	22.31	/		
	RB50#0	/	22.37	/		
10MHz 16QAM	RB1#0	/	22.23	/	19.9	34.77
	RB1#25	/	22.34	/		
	RB1#49	/	22.18	/		
	RB25#0	/	21.26	/		
	RB25#25	/	21.24	/		
	RB50#0	/	21.26	/		
Note: ERP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBd)						
					Result:	**Pass**

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
10MHz QPSK	RB1#0	/	4.17	/	13
	RB50#0	/	4.75	/	13
10MHz 16QAM	RB1#0	/	5.42	/	13
	RB50#0	/	5.77	/	13
				Result:	**Pass**

FCC §2.1049, §90.209: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	4.51	/	4.51	5.08	/	5.02
5MHz 16QAM	4.51	/	4.51	5	/	5
10MHz QPSK	/	8.94	/	/	9.8	/
10MHz 16QAM	/	8.94	/	/	9.76	/
Note: The test plots please refer to the Plots of Occupied Bandwidth						

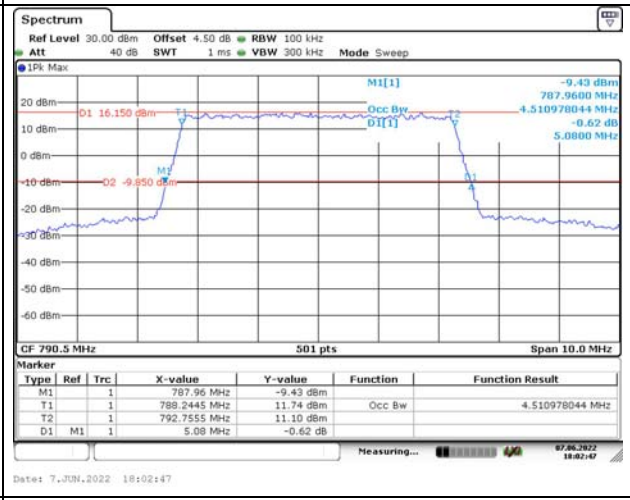
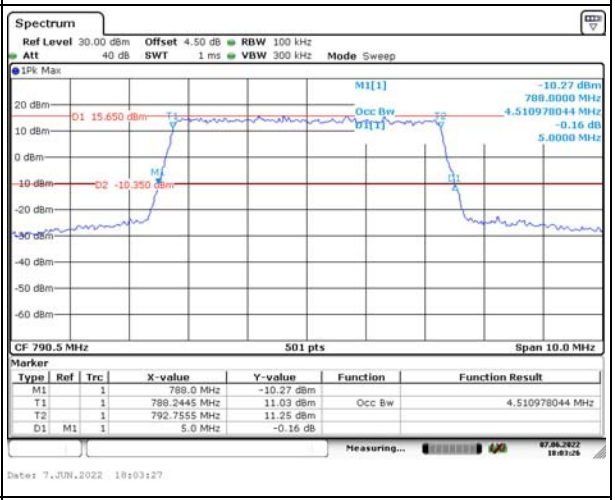
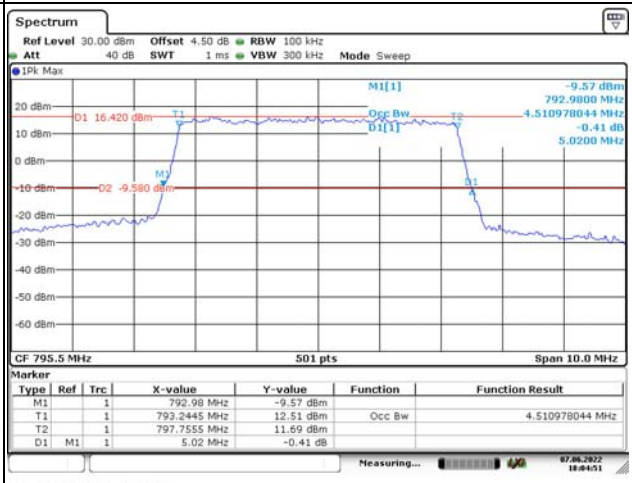
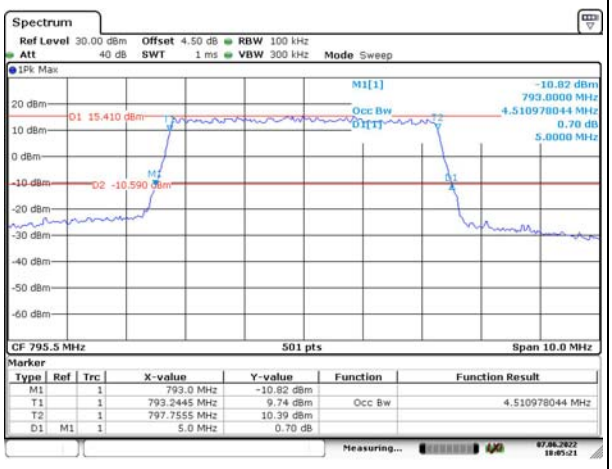
FCC §2.1051, §90.543:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

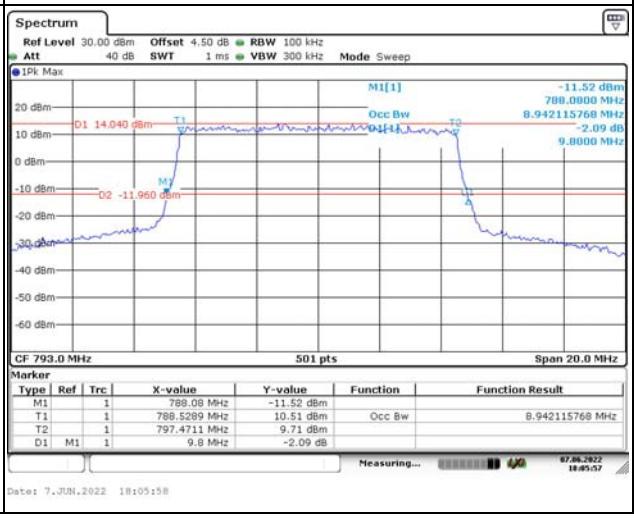
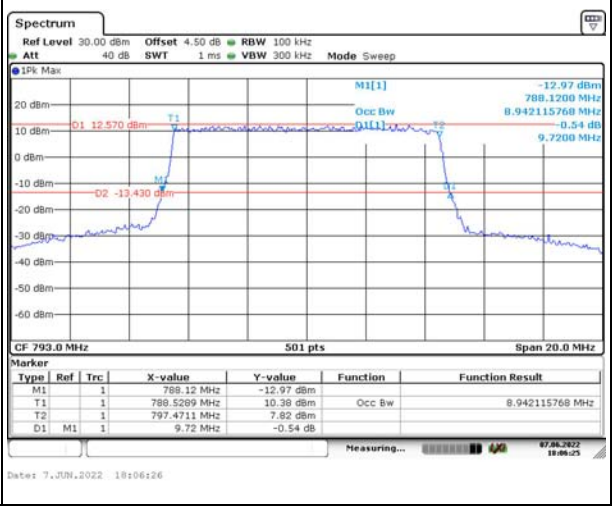
FCC §2.1051, §90.543:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

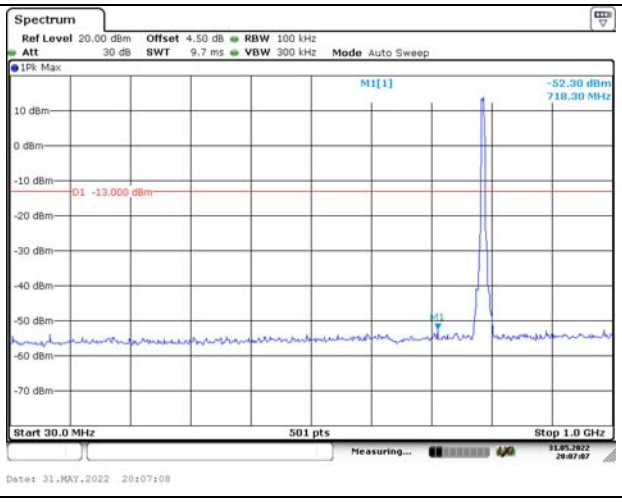
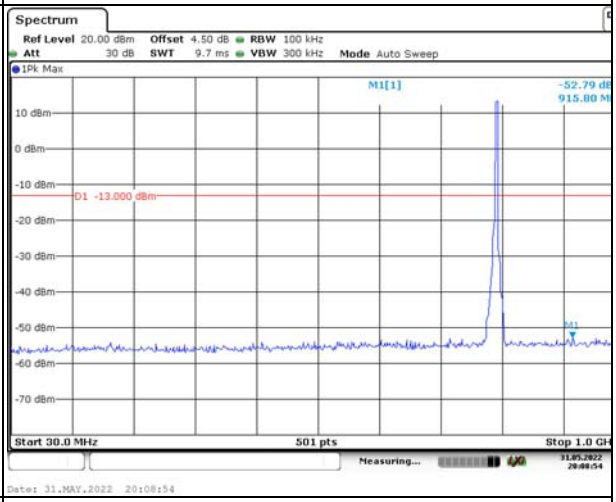
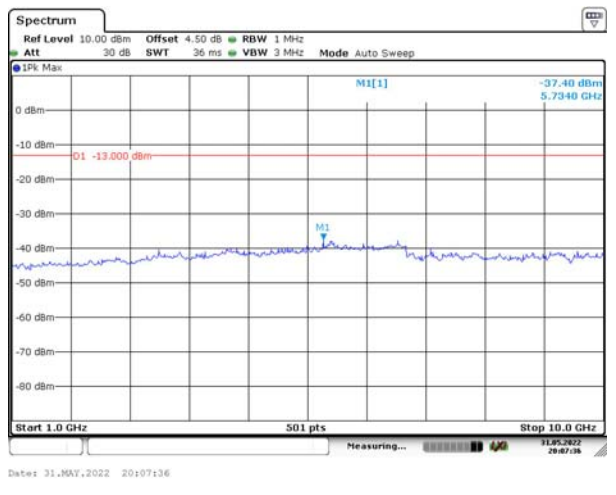
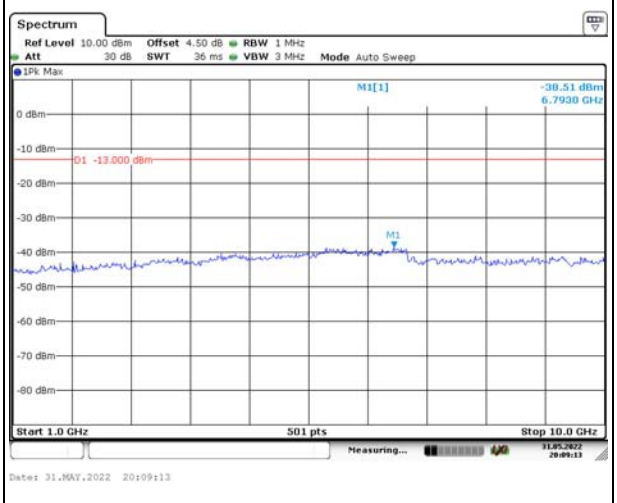
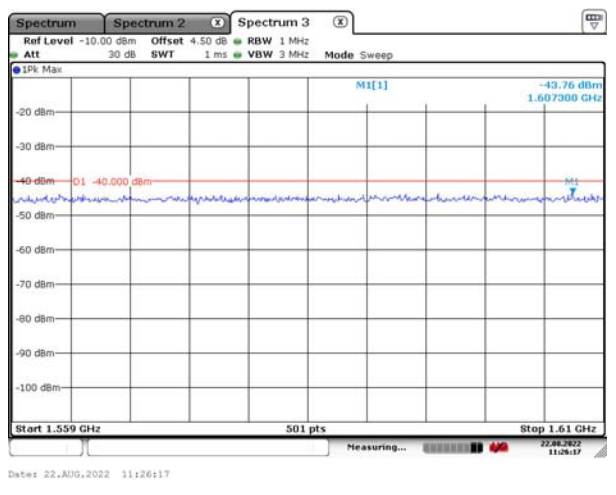
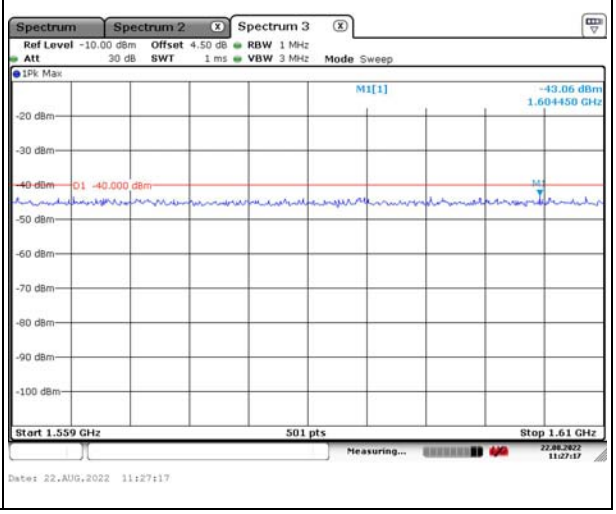
FCC §2.1055, §90.213: Frequency Stability					
Test Mode:	10 MHz QPSK		Test Channel:	793	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	13.8	-0.33	0.000	2.5
	-20	13.8	-8.33	-0.011	2.5
	-10	13.8	9.02	0.011	2.5
	0	13.8	6.1	0.008	2.5
	10	13.8	-9.13	-0.012	2.5
	20	13.8	9.77	0.012	2.5
	30	13.8	-9.5	-0.012	2.5
	40	13.8	-7.21	-0.009	2.5
	50	13.8	5.39	0.007	2.5
Frequency Stability vs. Voltage	20	10.8	5.84	0.007	2.5
	20	36	6.63	0.008	2.5
				Result:	**Pass**

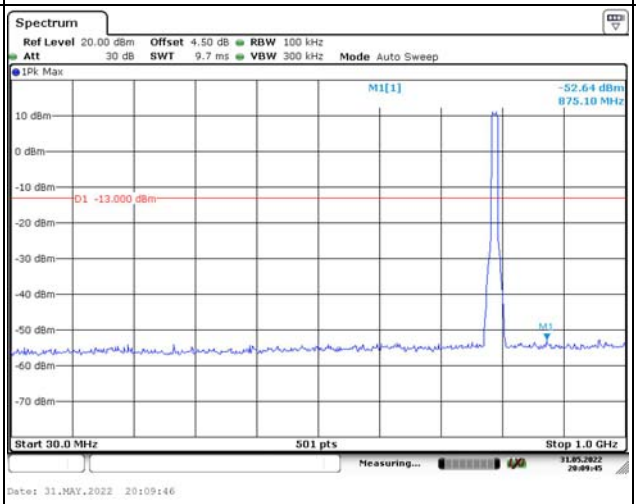
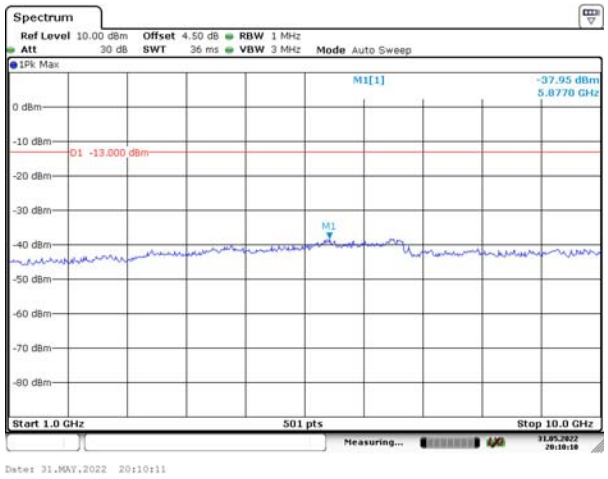
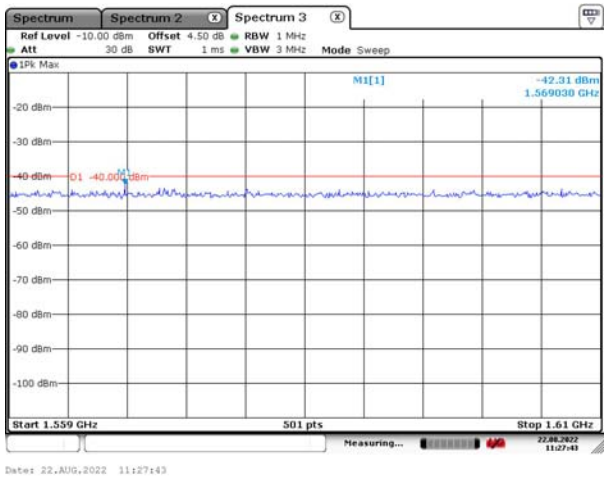
Test Mode:	10 MHz 16QAM		Test Channel:	793	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	13.8	-1	-0.001	2.5
	-20	13.8	-8.68	-0.011	2.5
	-10	13.8	9.52	0.012	2.5
	0	13.8	8.05	0.010	2.5
	10	13.8	-7.34	-0.009	2.5
	20	13.8	-6.29	-0.008	2.5
	30	13.8	6.4	0.008	2.5
	40	13.8	-8.15	-0.010	2.5
	50	13.8	6.11	0.008	2.5
Frequency Stability vs. Voltage	20	10.8	6.17	0.008	2.5
	20	36	-5.27	-0.007	2.5
				Result:	**Pass**

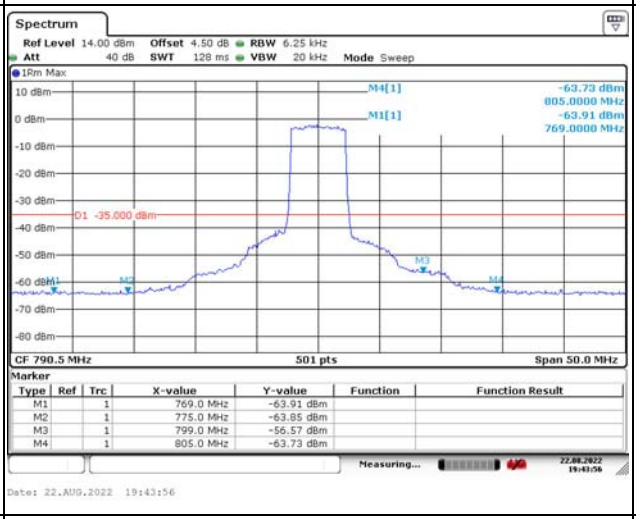
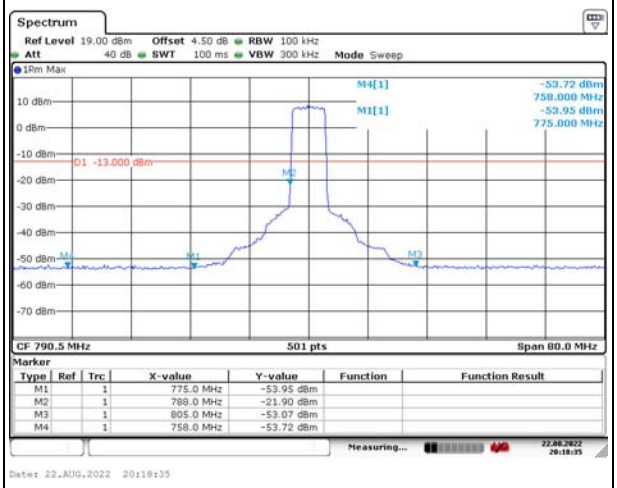
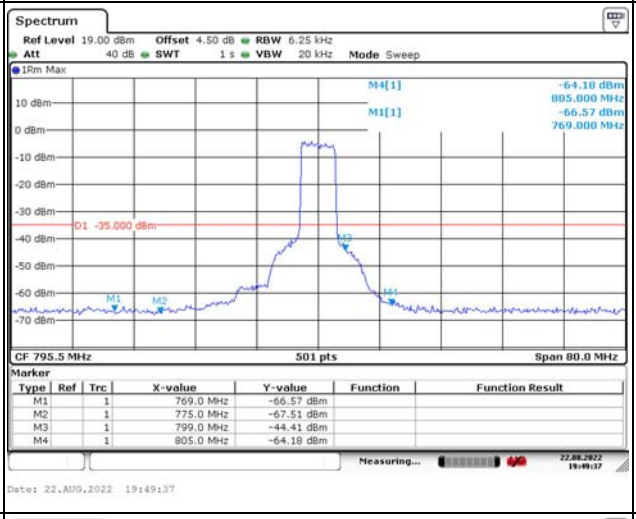
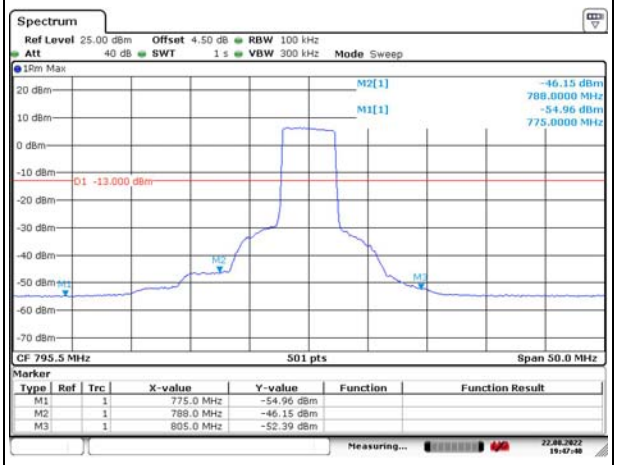
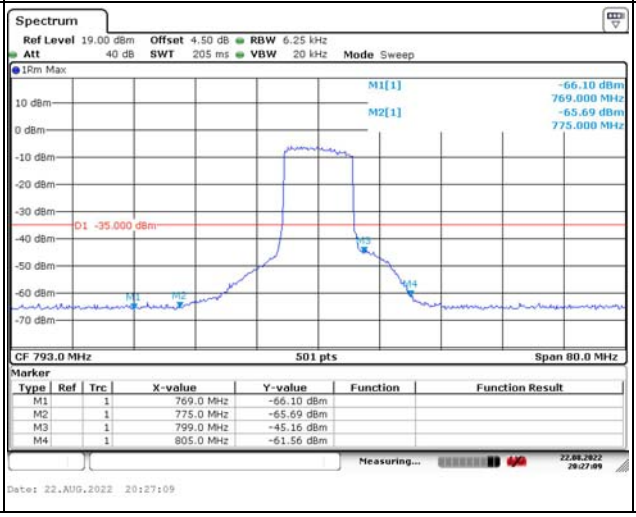
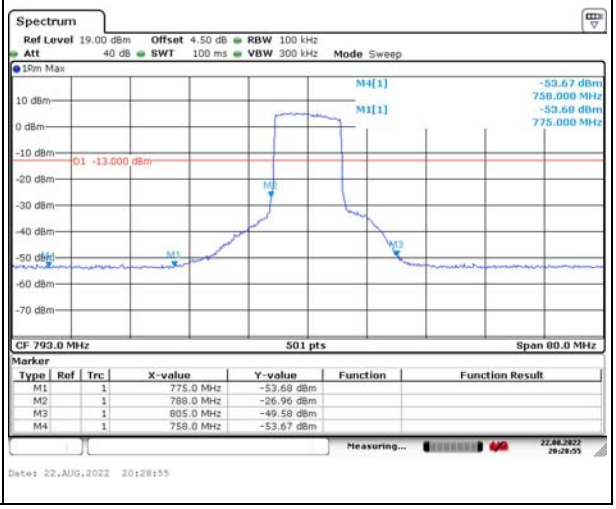
Test Plots:

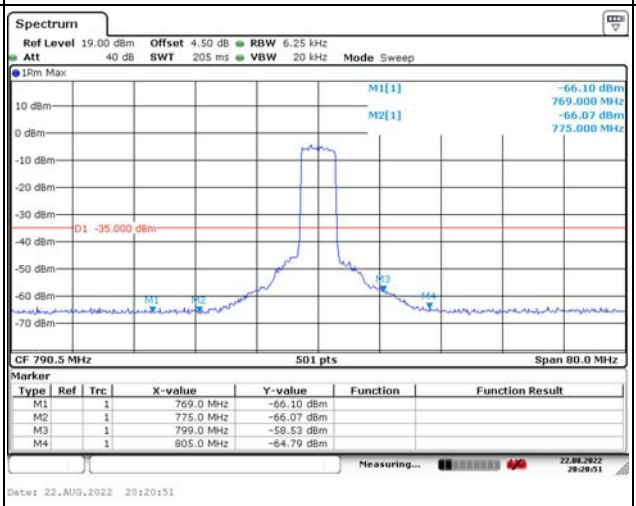
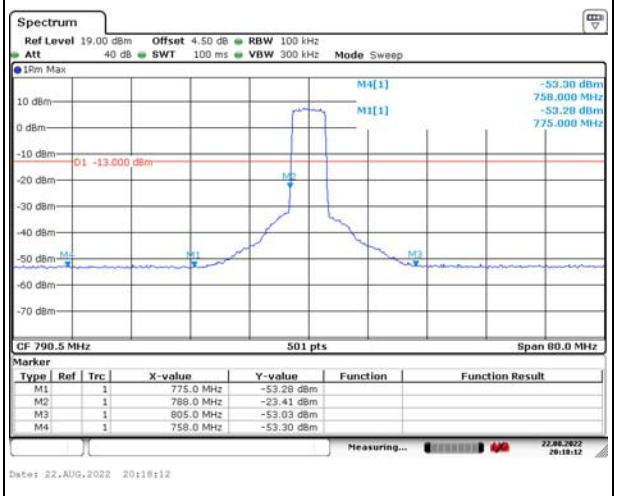
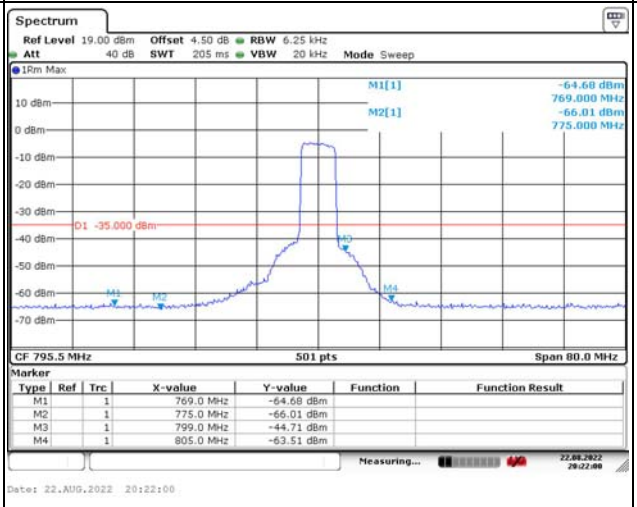
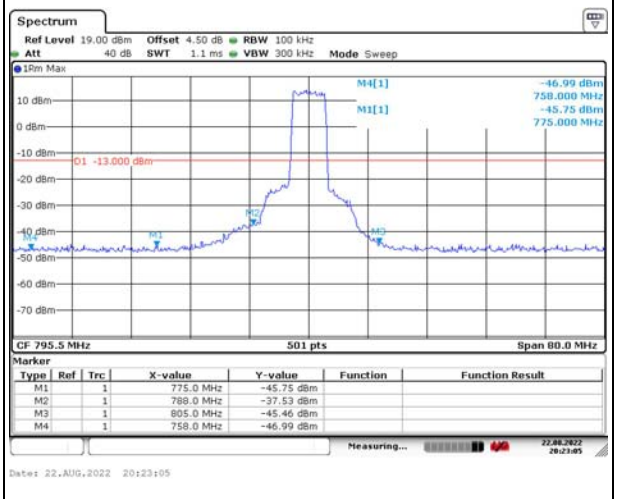
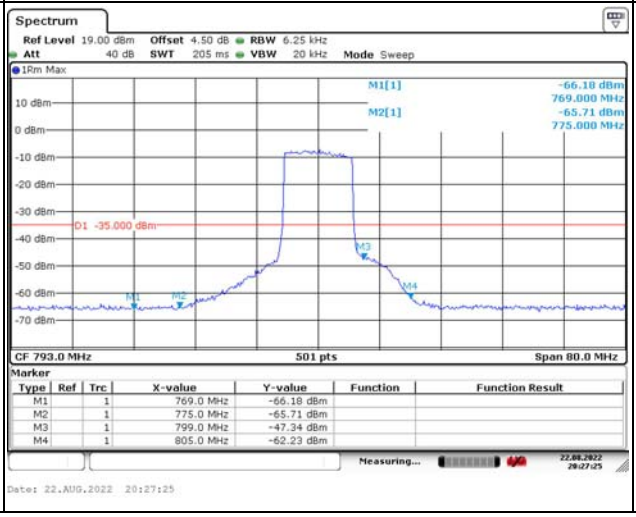
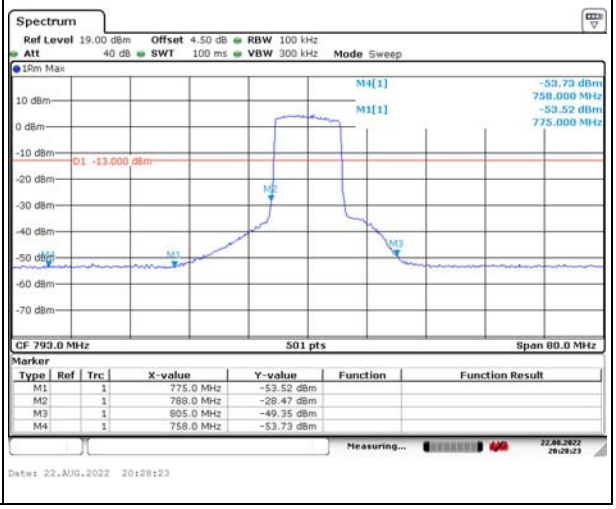
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Highest		

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

Spurious Emissions at Antenna Terminal		
Mode	Lowest Channel	Highest Channel
QPSK 5MHz		
		
		

Spurious Emissions at Antenna Terminal		
Mode	Middle Channel	/
QPSK 10MHz		/
		/
		/

Out of band emission, Band Edge		
Mode	**769-775MHz&799-805MHz**	**775-788MHz&Above 805MHz**
QPSK 5MHz Lowest Channel		
QPSK 5MHz Highest Channel		
QPSK 10MHz Middle Channel		

Out of band emission, Band Edge		
Mode	**769-775MHz&799-805MHz**	**775-788MHz&Above 805MHz**
16QAM 5MHz Lowest Channel		
16QAM 5MHz Highest Channel		
16QAM 10MHz Middle Channel		

4.10 Antenna Port Test Data and Results for LTE Band 66:

Serial Number:	CR22050036-RF-S1	Test Date:	2022-05-31~2022-06-08
Test Site:	RF	Test Mode:	Transmitting
Tester:	Rinka Li	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	25.5~25.9	Relative Humidity: (%)	63~67	ATM Pressure: (kPa)	100.0~100.1

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101474	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554404	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-09-30	2022-09-29
Weinschel	Coaxial Attenuator	53-20-34	LN751	Each time	N/A
BACL	TEMP&HUMI Test Chamber	BTH-150	30026	2021-07-22	2022-07-21
UNI-T	Multimeter	UT39A+	C210582554	2021-07-22	2022-07-21
E-Microwave	Two-way Spliter	ODP-1-6	OE0120176	Each Time	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).*

EUT Information@ LTE Band 66▲:					
Antenna Gain (dBi):	3.87			Cable Loss (dB):	0
Operation Voltage(V_{DC}):					
Lowest:	10.8	Normal:	13.8	Highest:	36

Test Frequency For Each Mode:

Operation Bandwidth	Lowest Frequency (MHz)	Middle Frequency (MHz)	Highest Frequency (MHz)
1.4MHz	1710.7	1745	1779.3
3MHz	1711.5	1745	1778.5
5MHz	1712.5	1745	1777.5
10MHz	1715	1745	1775
15MHz	1717.5	1745	1772.5
20MHz	1720	1745	1770

Test Data:

FCC§2.1046;§ 27.50(d)(4)						
RF Output Power:						
Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)			Maximum EIRP (dBm)	EIRP Limit (dBm)
		Lowest Channel	Middle Channel	Highest Channel		
1.4MHz QPSK	RB1#0	22.45	21.95	21.93	26.33	30
	RB1#3	22.46	22.12	21.98		
	RB1#5	22.4	21.88	21.92		
	RB3#0	22.31	22.03	21.92		
	RB3#3	22.31	22.03	21.84		
	RB6#0	21.3	21.01	20.93		
1.4MHz 16QAM	RB1#0	21.34	20.92	20.88	25.28	30
	RB1#3	21.41	21.12	21.05		
	RB1#5	21.15	20.71	20.88		
	RB3#0	21.21	20.98	20.85		
	RB3#3	21.27	20.89	20.9		
	RB6#0	20.26	19.99	19.92		
3MHz QPSK	RB1#0	22.4	22.19	22.19	26.27	30
	RB1#8	22.26	22.01	22.03		
	RB1#14	22.34	21.99	21.94		
	RB6#0	21.28	21.12	21.06		
	RB6#9	21.23	20.9	20.88		
	RB15#0	21.31	20.97	21.1		
3MHz 16QAM	RB1#0	21.32	21.09	21.31	25.19	30
	RB1#8	21.15	20.91	21.07		
	RB1#14	21.22	20.7	21.09		
	RB6#0	20.25	20.04	20.1		
	RB6#9	20.31	19.77	20.05		
	RB15#0	20.35	19.96	20.13		
5MHz QPSK	RB1#0	22.28	22.31	22.28	26.18	30
	RB1#13	22.21	22.01	22.08		
	RB1#24	22.23	21.92	21.95		
	RB15#0	21.36	21.04	21.22		
	RB15#10	21.36	20.86	21.1		
	RB25#0	21.39	20.99	21.19		
5MHz 16QAM	RB1#0	21.3	21.36	21.23	25.23	30
	RB1#13	21.12	21.07	21.15		
	RB1#24	21.22	20.84	20.98		
	RB15#0	20.33	20.08	20.22		
	RB15#10	20.31	19.93	20.11		
	RB25#0	20.28	19.94	20.21		

10MHz QPSK	RB1#0	22.53	22.49	22.25	26.4	30
	RB1#25	22.53	22.35	22.36		
	RB1#49	22.45	22	22.06		
	RB25#0	21.42	21.34	21.17		
	RB25#25	21.32	20.88	21.19		
	RB50#0	21.39	21.13	21.24		
10MHz 16QAM	RB1#0	21.48	21.32	21.04	25.35	30
	RB1#25	21.27	21.16	21.44		
	RB1#49	21.16	20.91	20.97		
	RB25#0	20.39	20.29	20.2		
	RB25#25	20.27	20.01	20.26		
	RB50#0	20.34	20.1	20.17		
15MHz QPSK	RB1#0	22.62	22.36	21.99	26.49	30
	RB1#38	22.54	22.11	22.14		
	RB1#74	22.47	22.13	21.97		
	RB36#0	21.42	21.38	20.99		
	RB36#39	21.31	20.93	21.29		
	RB75#0	21.38	21.17	21.06		
15MHz 16QAM	RB1#0	21.26	21.38	20.87	25.25	30
	RB1#38	21.19	21.08	21.11		
	RB1#74	21.24	21.12	20.81		
	RB36#0	20.41	20.31	20.07		
	RB36#39	20.34	20.01	20.24		
	RB75#0	20.36	20.23	20.16		
20MHz QPSK	RB1#0	20.99	21.62	21.15	25.49	30
	RB1#50	21.45	21.53	21.26		
	RB1#99	21.32	21.6	21.14		
	RB50#0	20.53	20.53	20.15		
	RB50#50	20.44	20.23	20.27		
	RB100#0	20.53	20.41	20.19		
20MHz 16QAM	RB1#0	20.56	20.26	20.21	24.43	30
	RB1#50	20.52	20.31	20.39		
	RB1#99	20.29	20.18	20.12		
	RB50#0	19.45	19.52	19.24		
	RB50#50	19.37	19.33	19.36		
	RB100#0	19.43	19.41	19.3		
Note: EIRP=Conducted Power(dBm) - Cable loss(dB) + Antenna Gain(dBi)						
					Result:	**Pass**

Peak-to-average Ratio(PAR)					
Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	4.03	4.55	4.06	13
	RB100#0	4.9	4.67	4.23	13
20MHz 16QAM	RB1#0	5.25	5.62	5.28	13
	RB100#0	5.86	5.74	5.3	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	1.108	1.102	1.314	1.338	1.314
1.4MHz 16QAM	1.102	1.096	1.102	1.32	1.32	1.308
3MHz QPSK	2.707	2.695	2.683	2.952	2.964	2.94
3MHz 16QAM	2.695	2.695	2.683	2.952	2.952	2.976
5MHz QPSK	4.511	4.531	4.511	5.04	5.02	5.02
5MHz 16QAM	4.511	4.531	4.511	5	5.04	5.04
10MHz QPSK	8.942	8.942	8.902	9.84	9.72	9.68
10MHz 16QAM	8.982	8.902	8.942	9.84	9.68	9.68
15MHz QPSK	13.533	13.473	13.413	14.88	14.82	14.76
15MHz 16QAM	13.473	13.473	13.413	14.82	14.82	14.7
20MHz QPSK	17.884	17.884	17.884	19.44	19.44	19.28
20MHz 16QAM	17.804	17.804	17.804	19.44	19.44	19.36
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.**

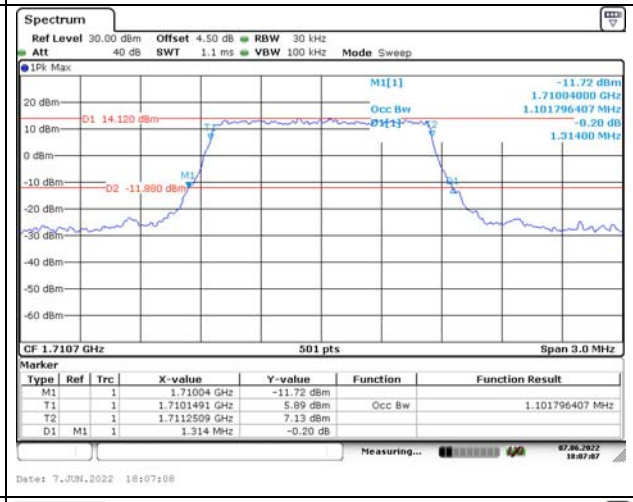
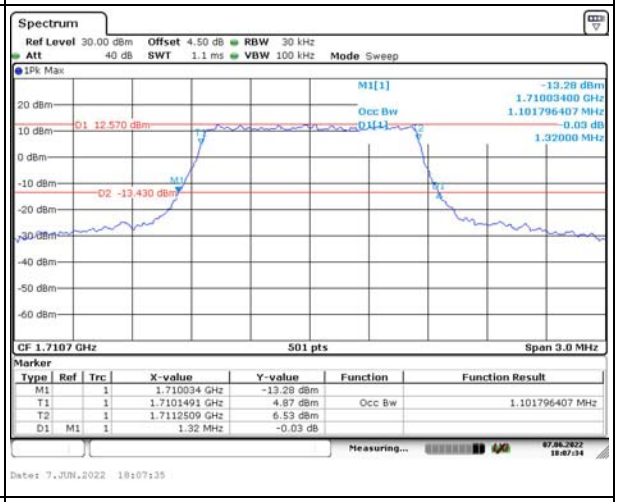
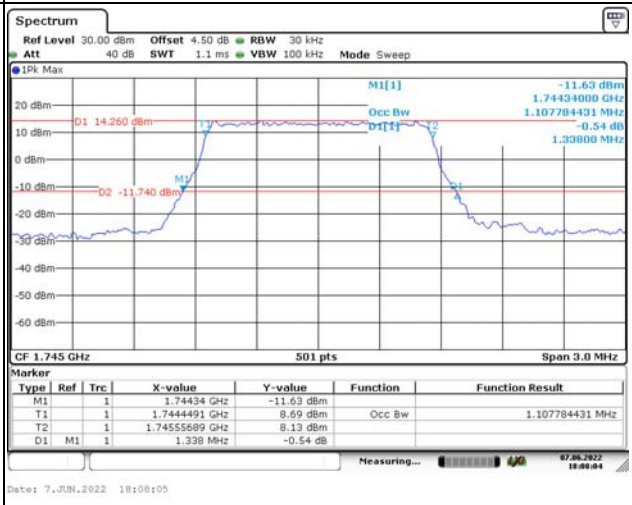
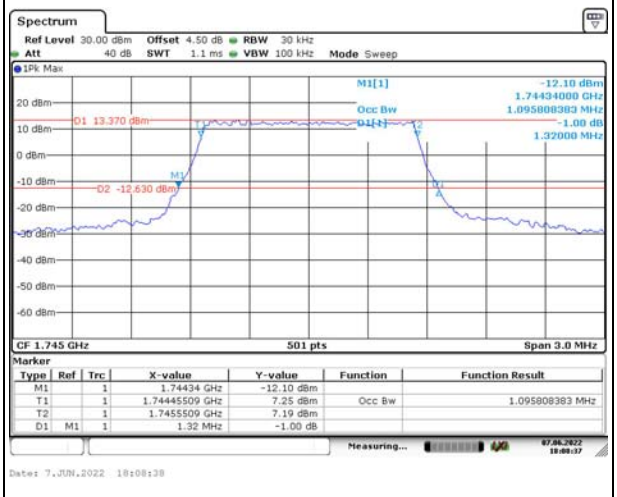
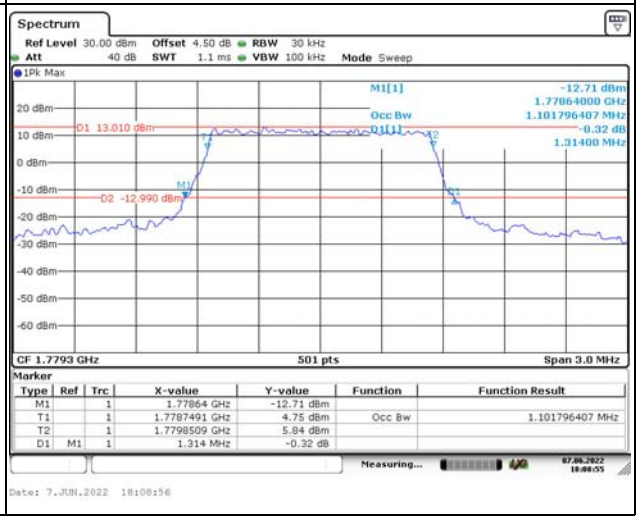
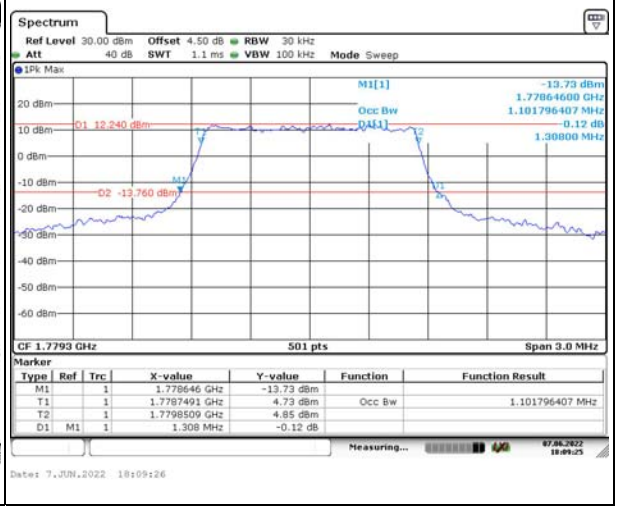
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

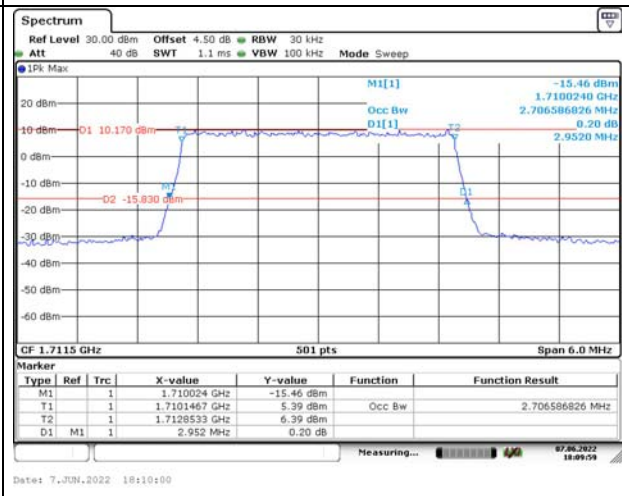
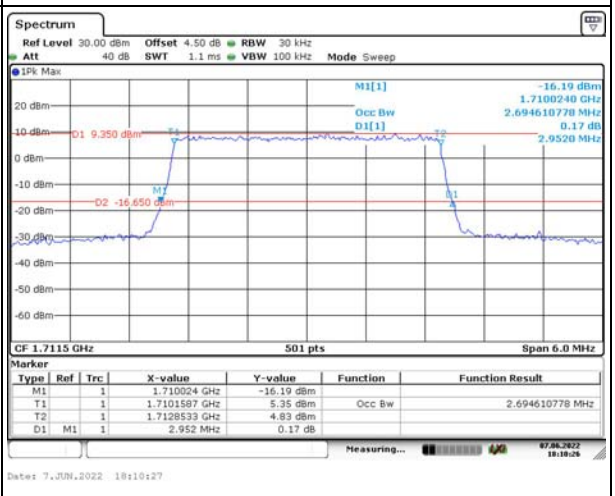
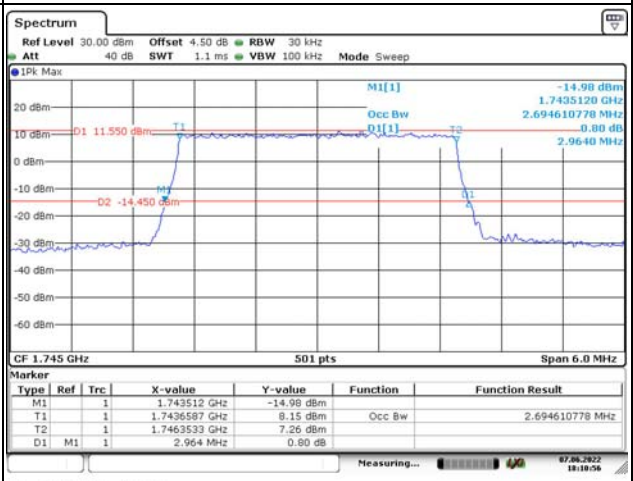
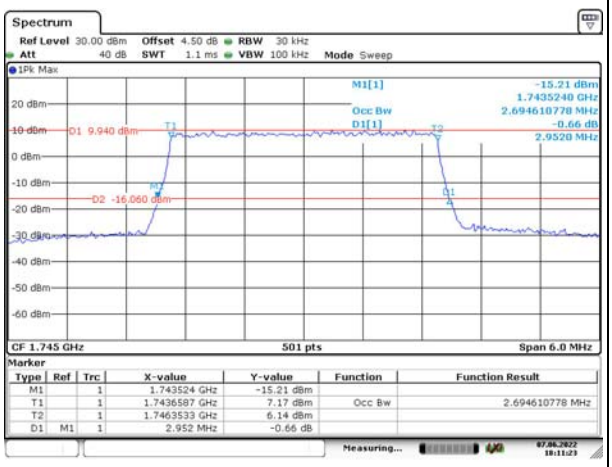
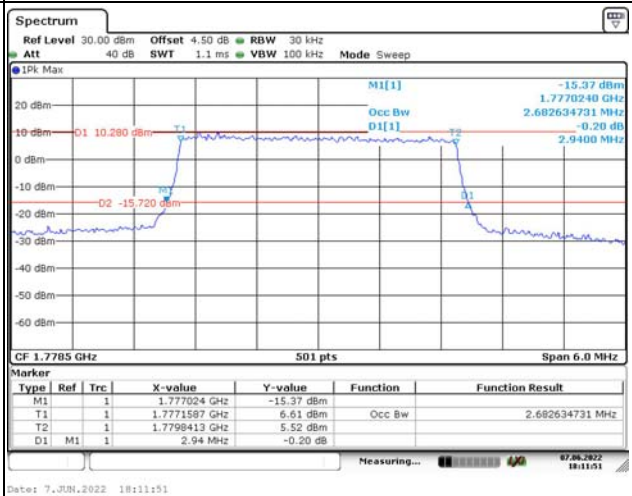
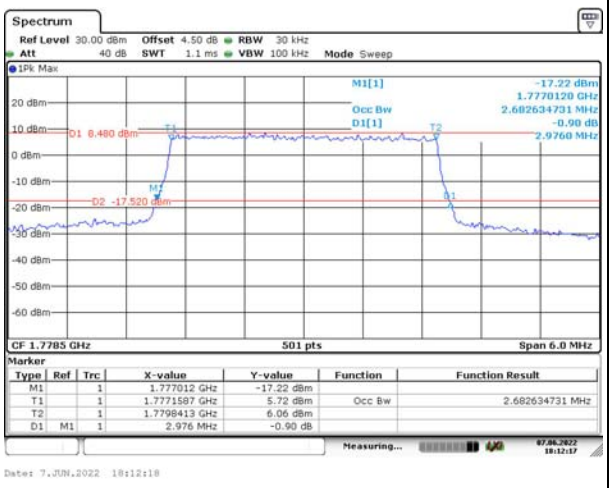
FCC §2.1055, §27.54: Frequency Stability

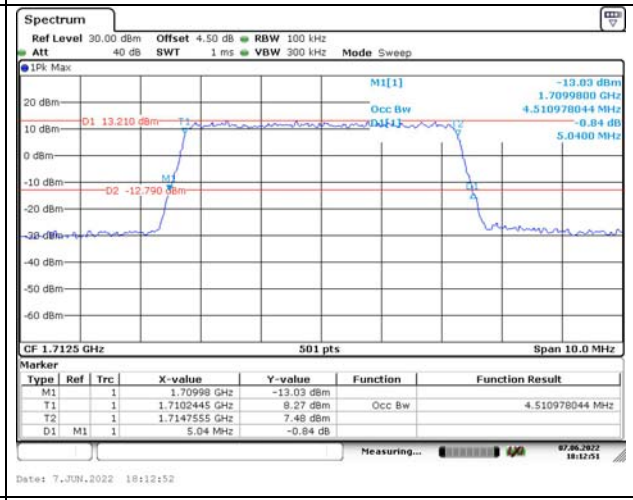
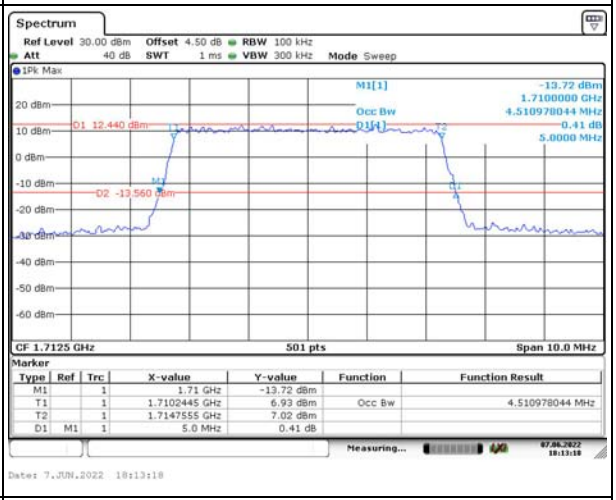
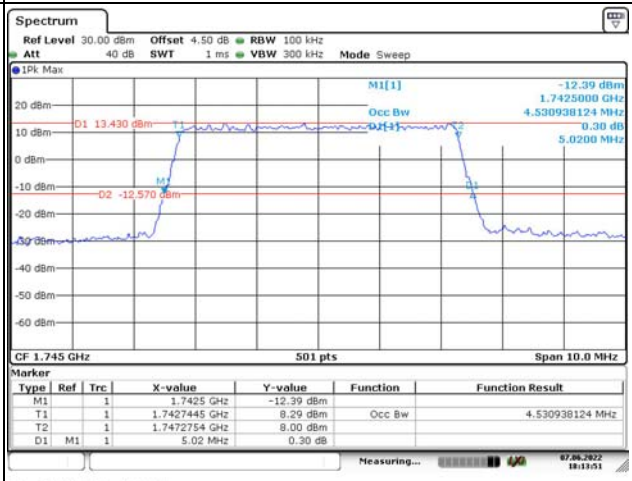
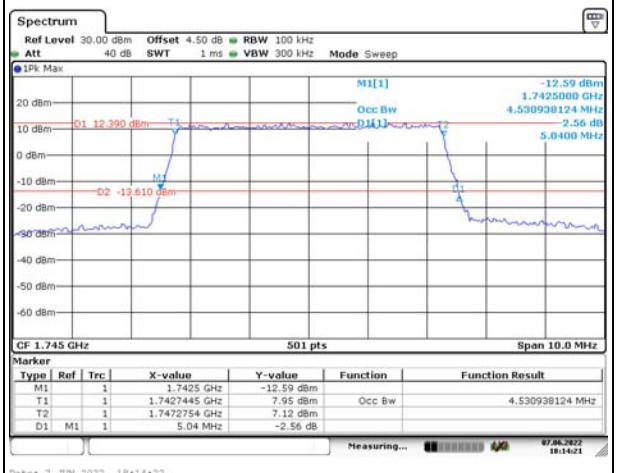
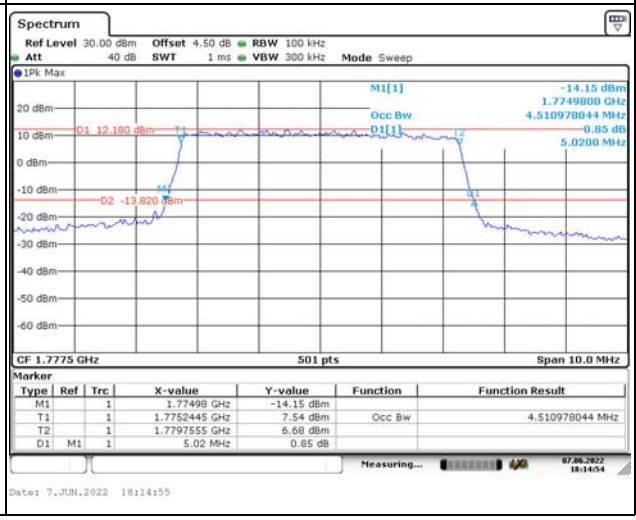
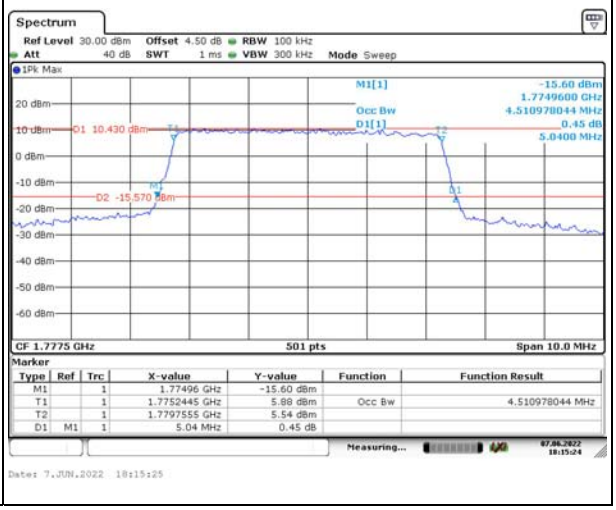
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	1710.291	1710.00	1779.723	1780
	-20	13.8	1710.293	1710.00	1779.719	1780
	-10	13.8	1710.288	1710.00	1779.725	1780
	0	13.8	1710.289	1710.00	1779.727	1780
	10	13.8	1710.289	1710.00	1779.719	1780
	20	13.8	1710.285	1710.00	1779.714	1780
	30	13.8	1710.285	1710.00	1779.716	1780
	40	13.8	1710.287	1710.00	1779.723	1780
	50	13.8	1710.297	1710.00	1779.722	1780
Frequency Stability vs. Voltage	20	10.8	1710.297	1710.00	1779.726	1780
	20	36	1710.292	1710.00	1779.714	1780
					Result:	**Pass**

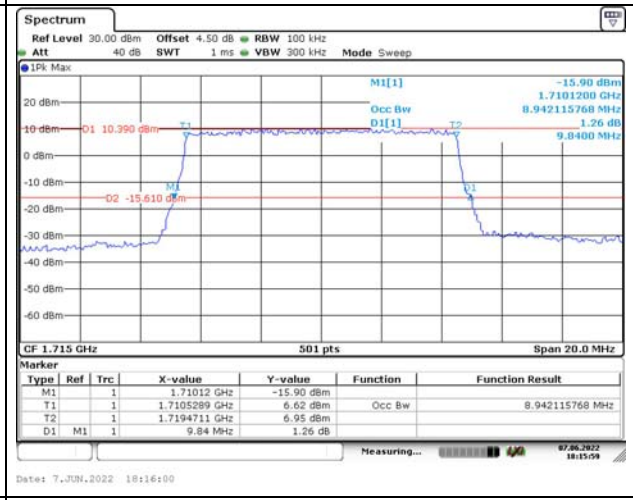
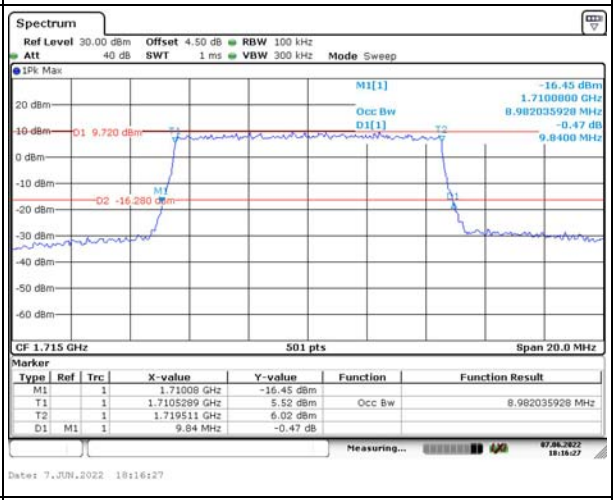
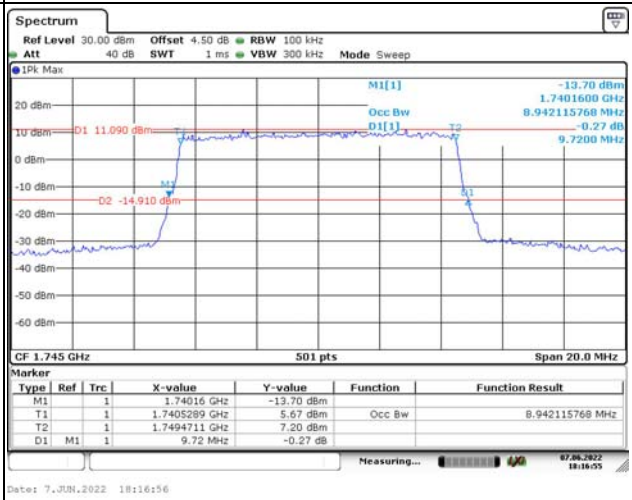
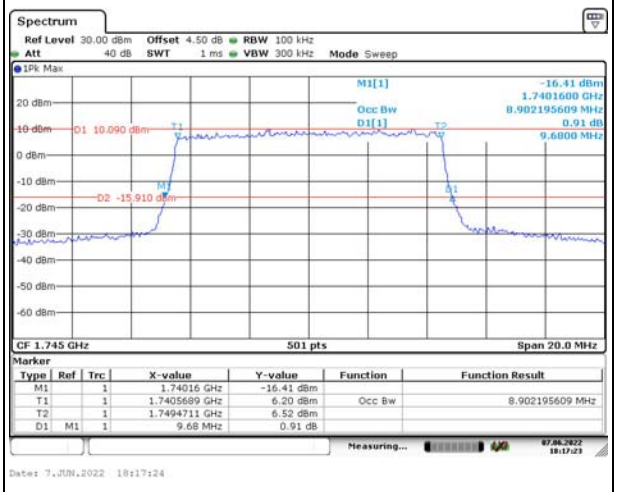
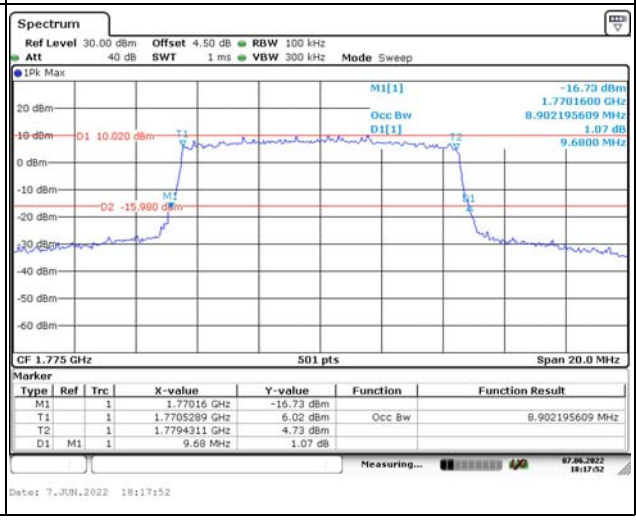
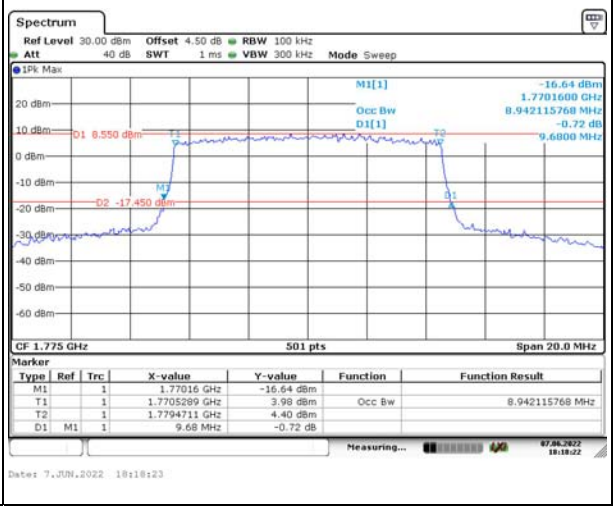
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	13.8	1710.292	1710.00	1779.775	1780
	-20	13.8	1710.289	1710.00	1779.774	1780
	-10	13.8	1710.287	1710.00	1779.778	1780
	0	13.8	1710.291	1710.00	1779.779	1780
	10	13.8	1710.292	1710.00	1779.782	1780
	20	13.8	1710.285	1710.00	1779.773	1780
	30	13.8	1710.299	1710.00	1779.775	1780
	40	13.8	1710.290	1710.00	1779.775	1780
	50	13.8	1710.289	1710.00	1779.775	1780
Frequency Stability vs. Voltage	20	10.8	1710.292	1710.00	1779.779	1780
	20	36	1710.288	1710.00	1779.773	1780
					Result:	**Pass**

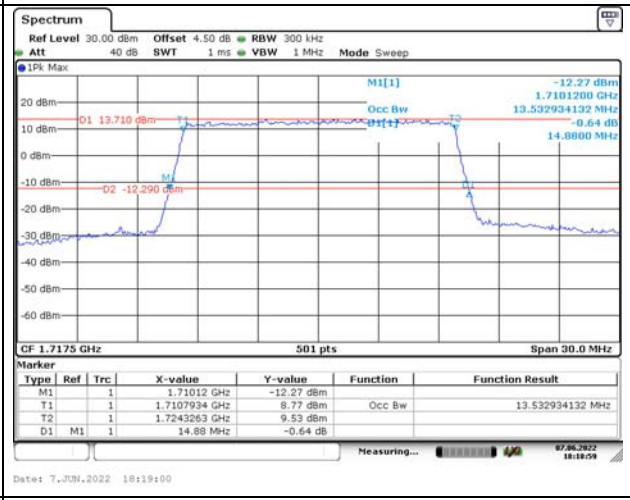
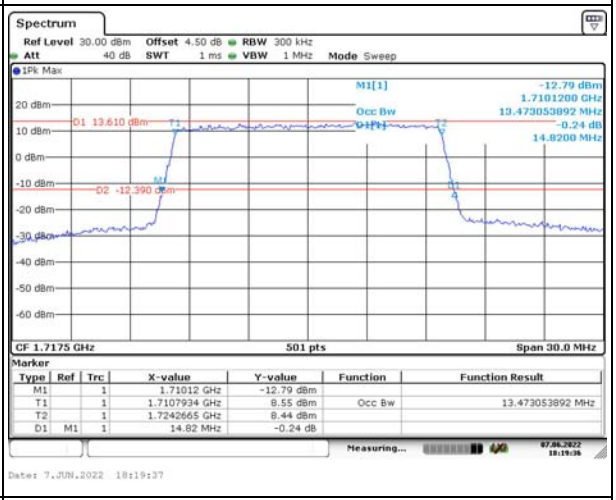
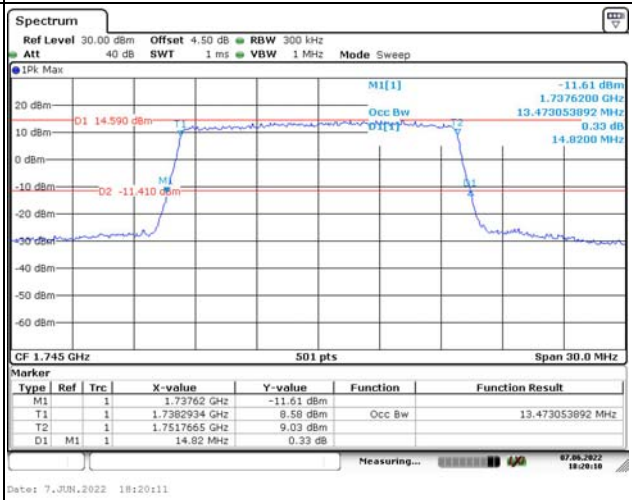
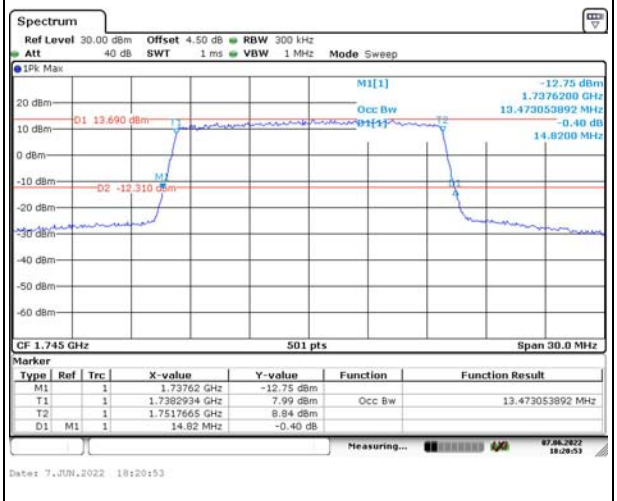
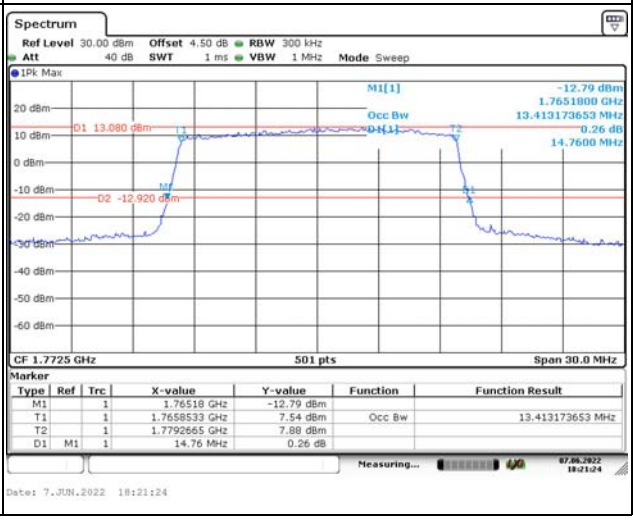
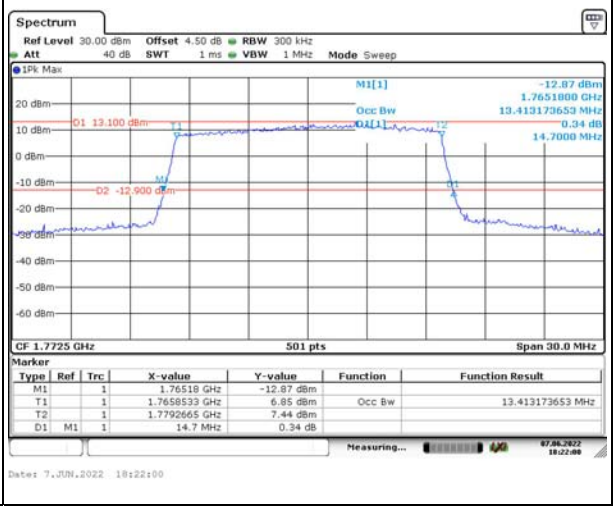
Test Plots:

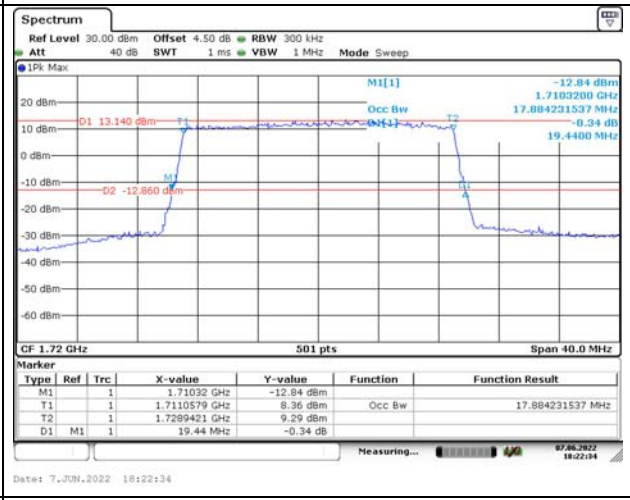
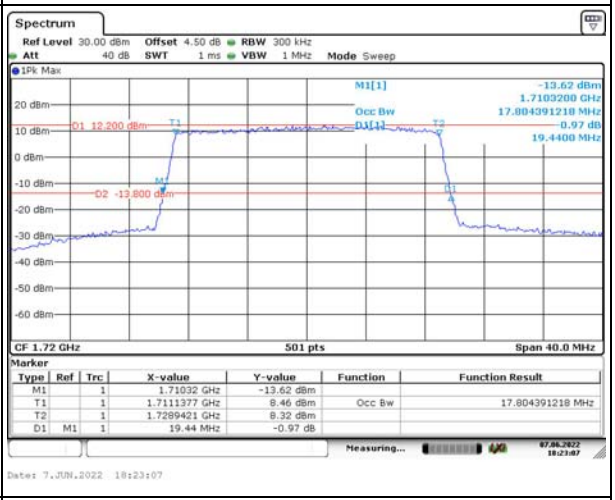
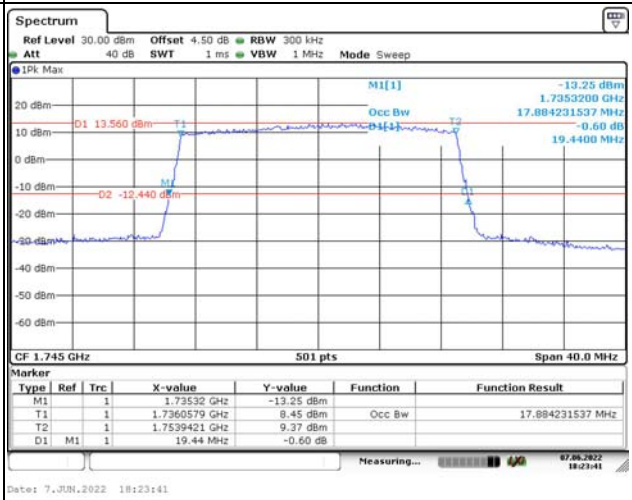
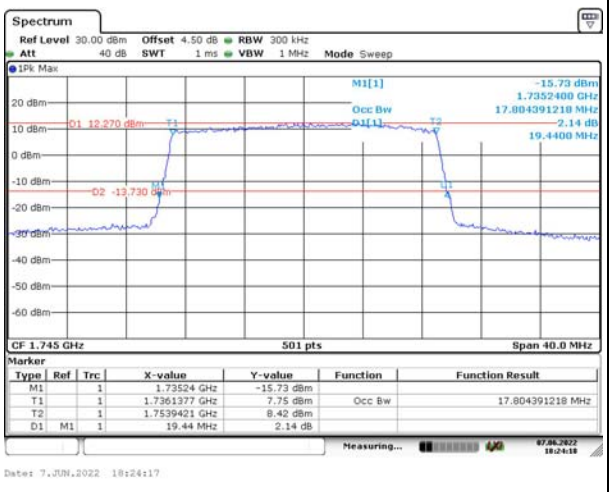
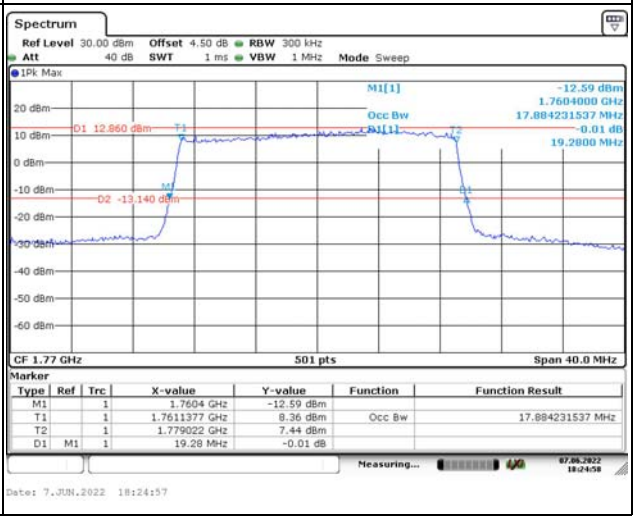
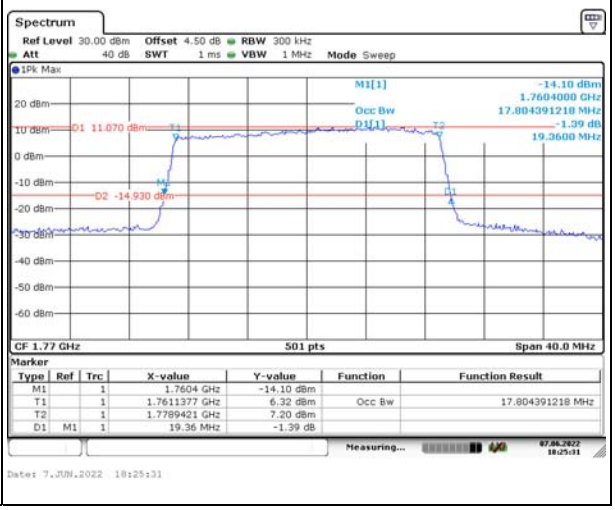
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

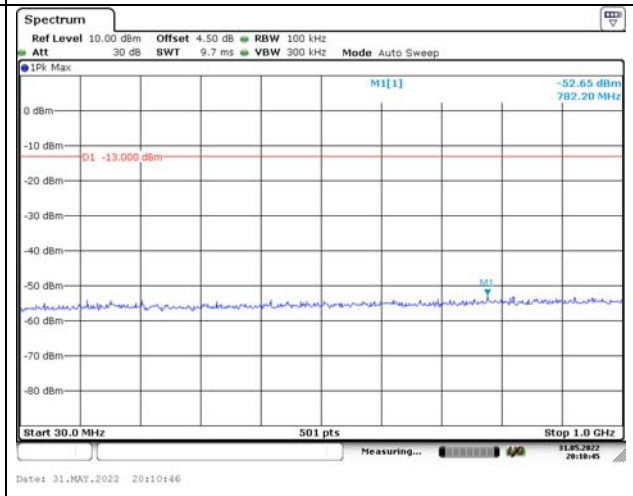
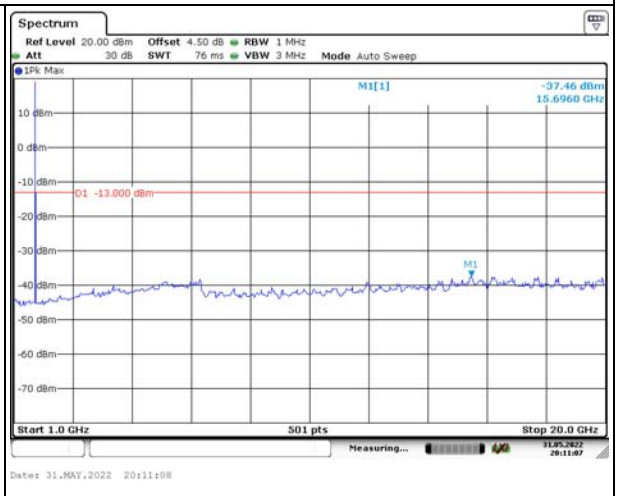
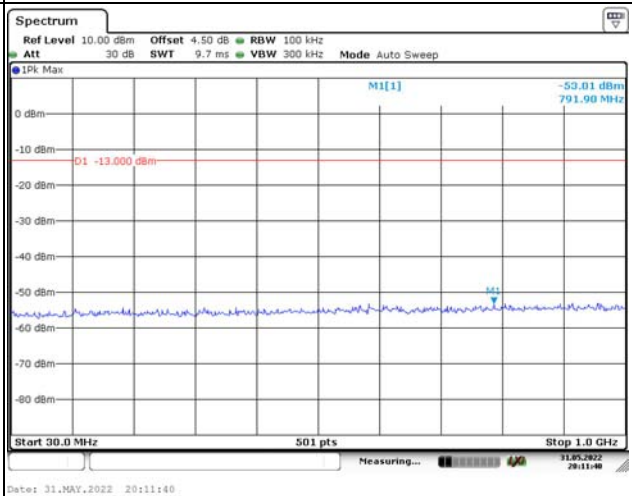
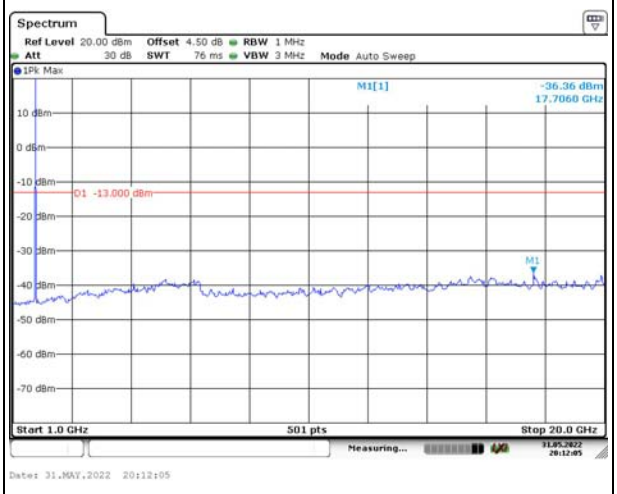
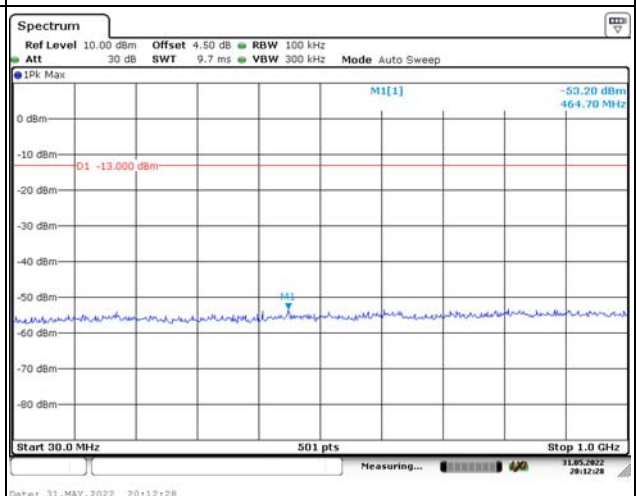
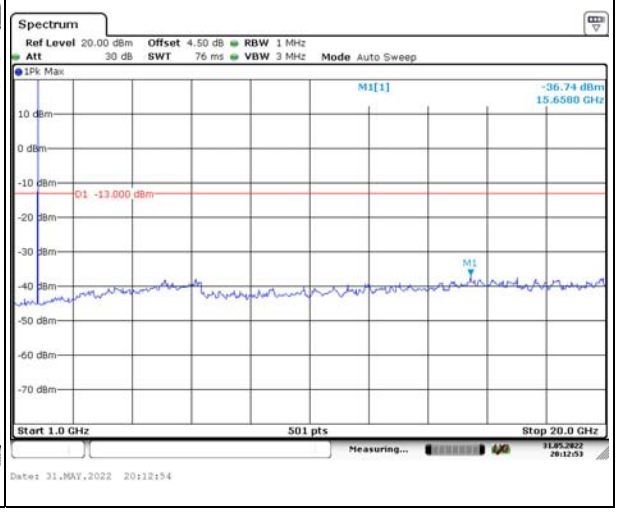
Occupied Bandwidth		
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

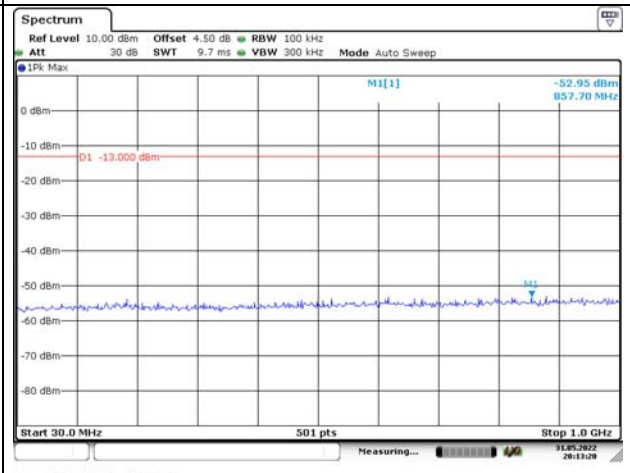
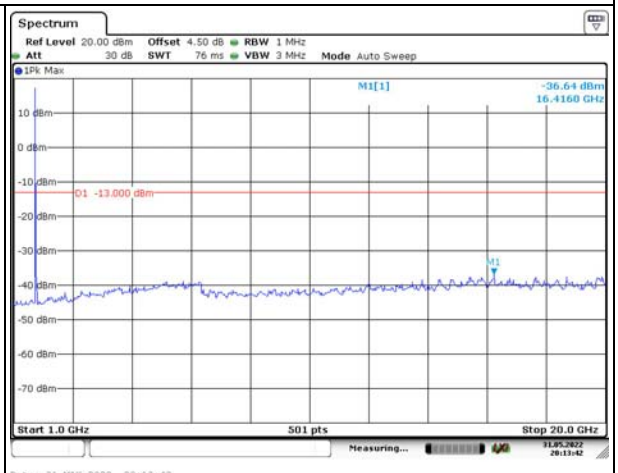
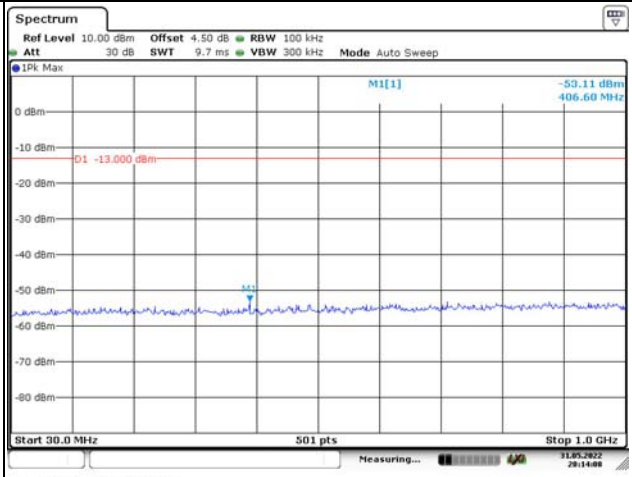
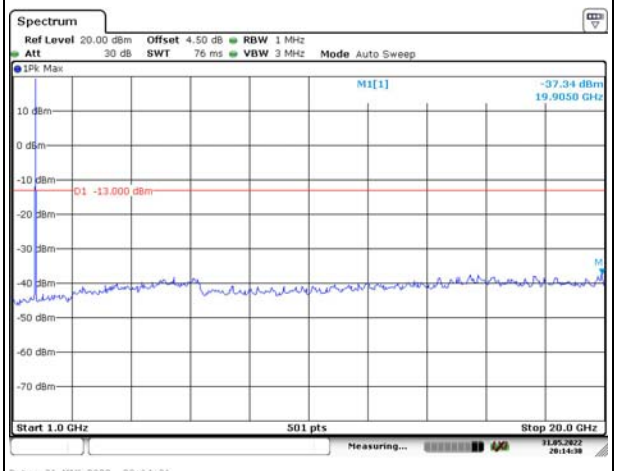
Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

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