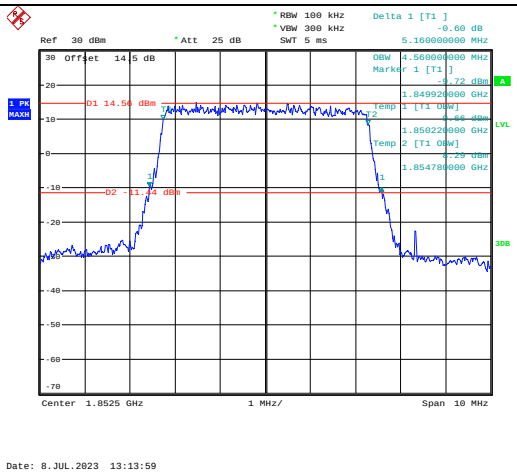
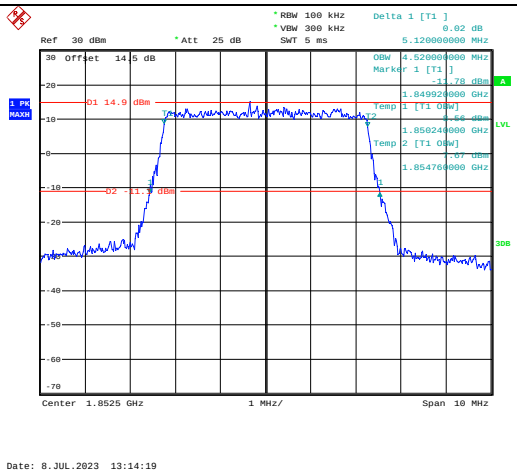
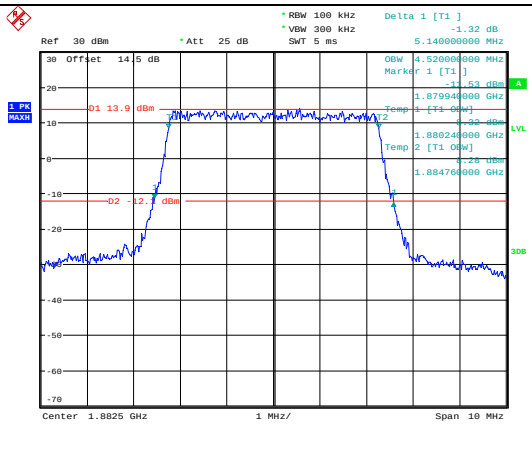
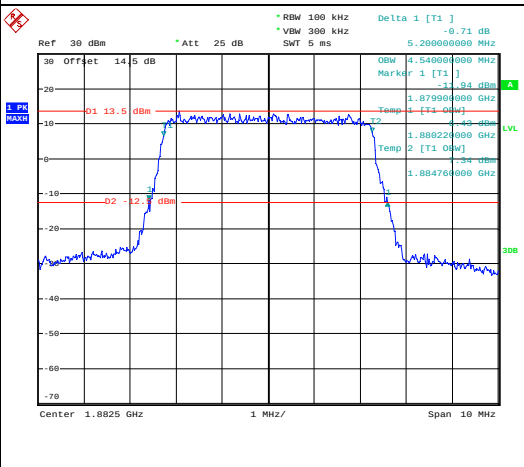
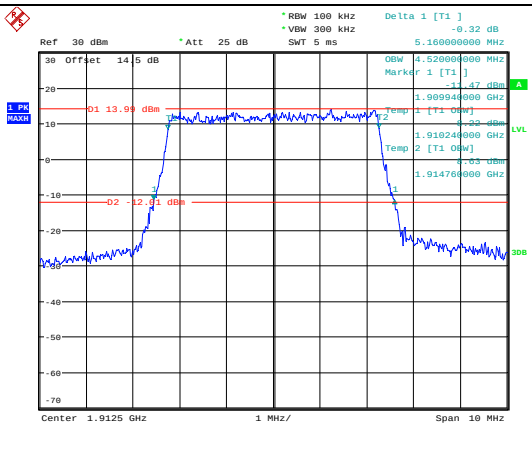
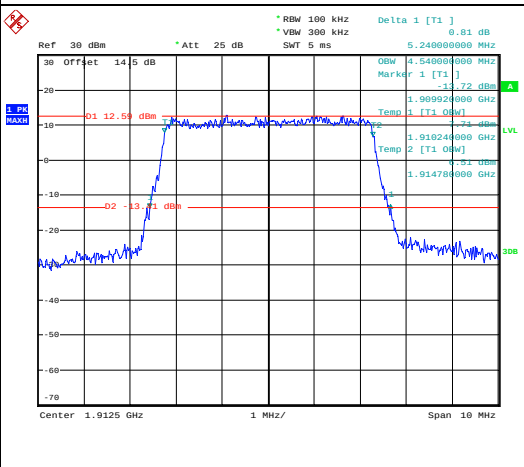
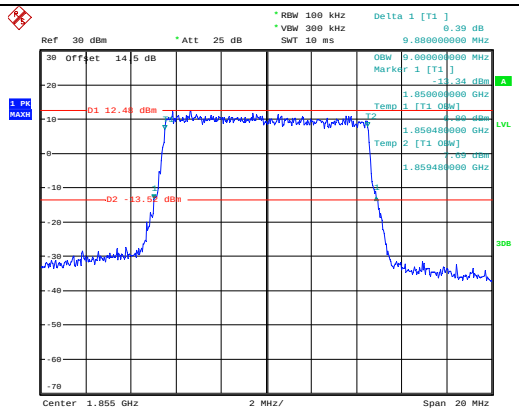
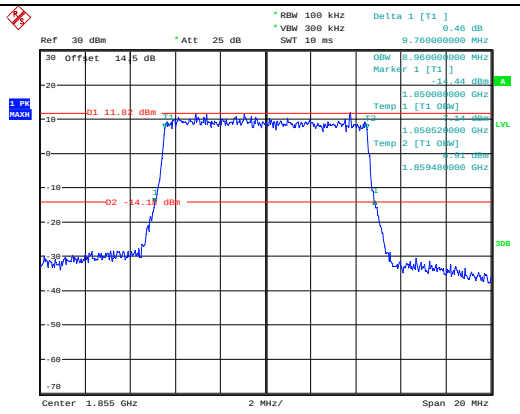
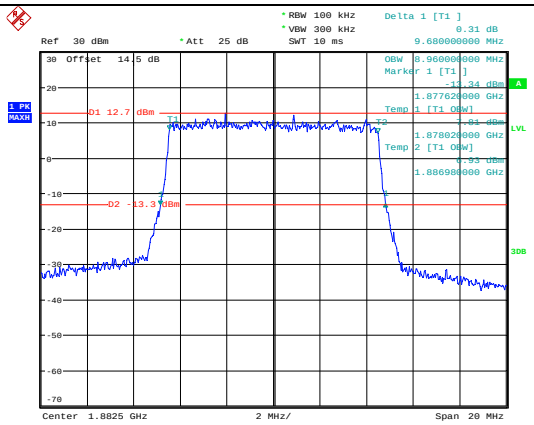
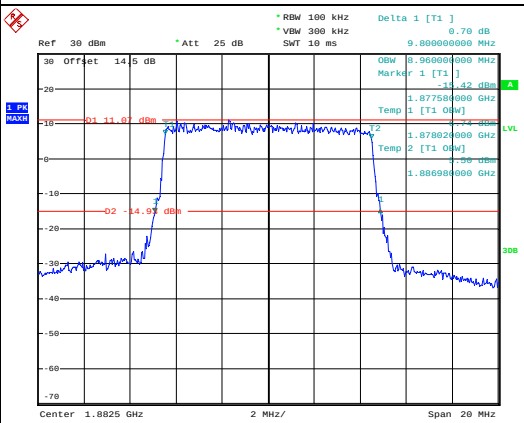
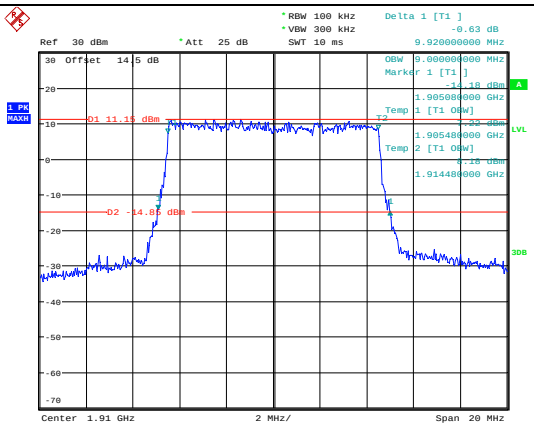
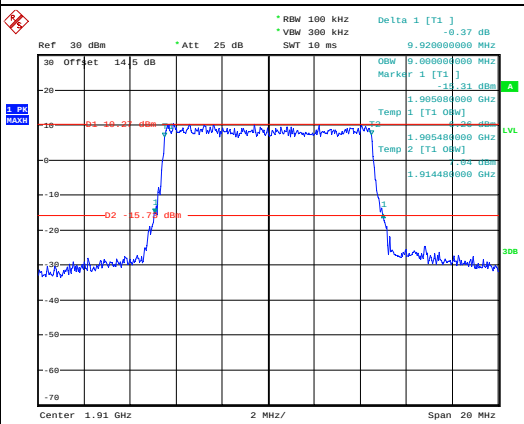
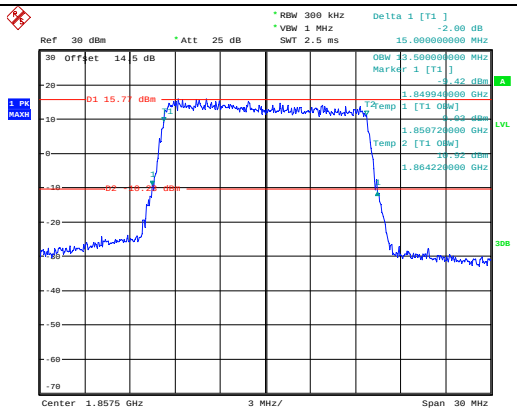
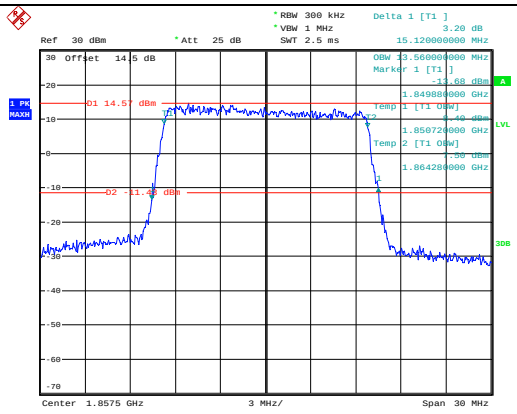
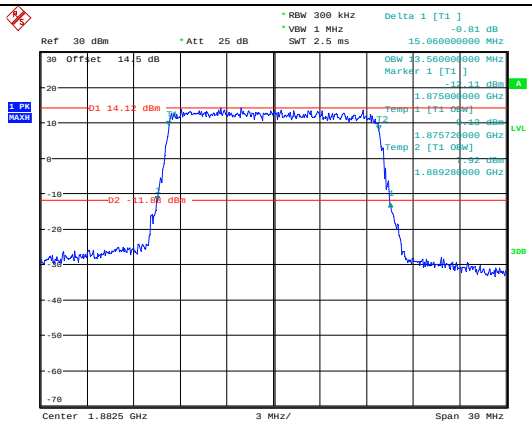
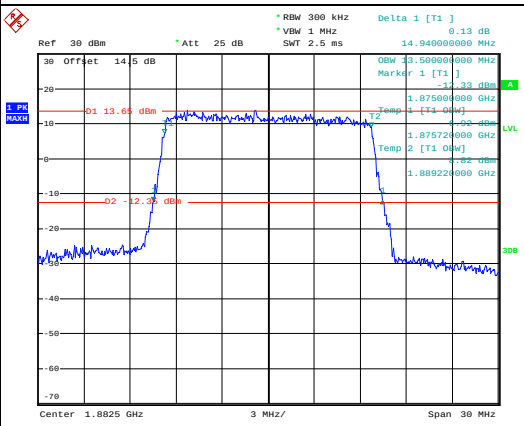
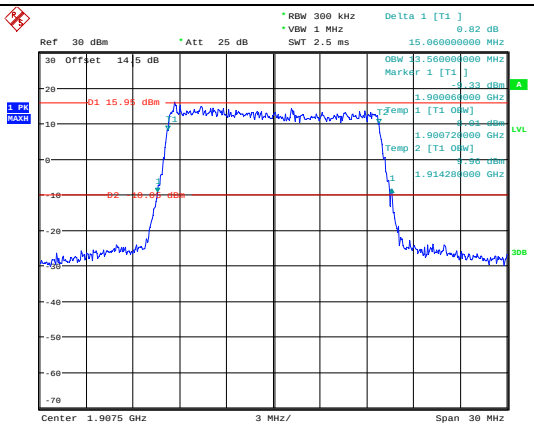
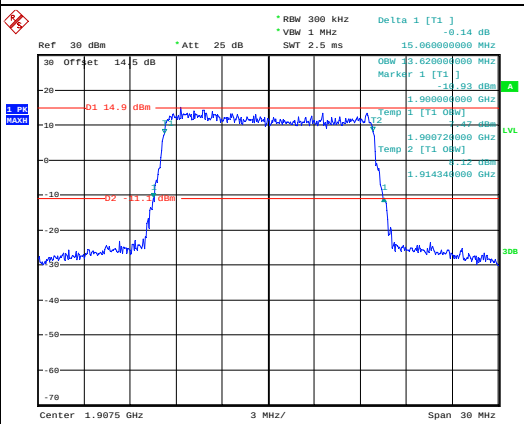
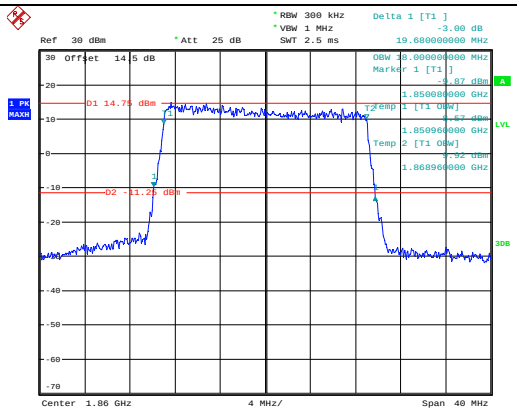
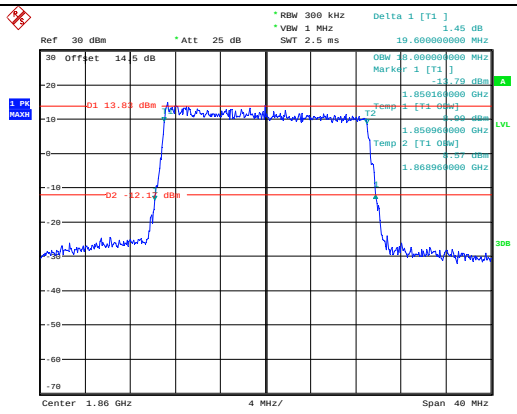
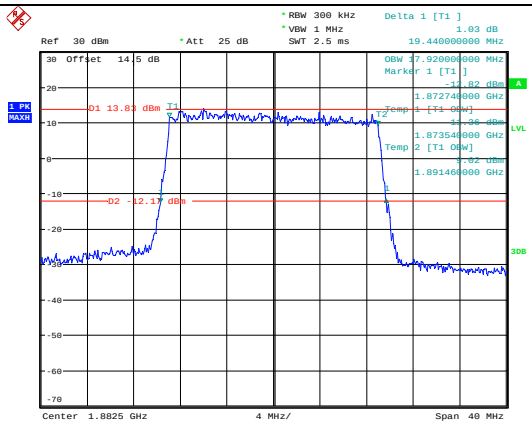
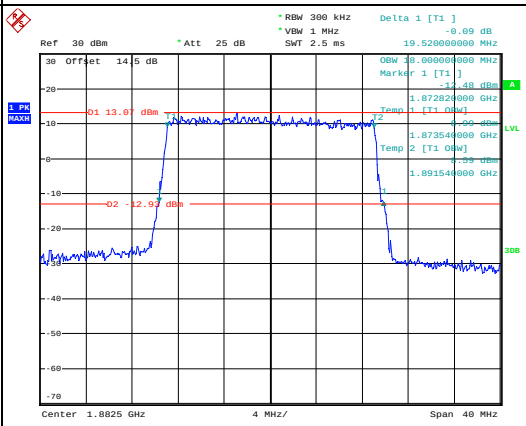
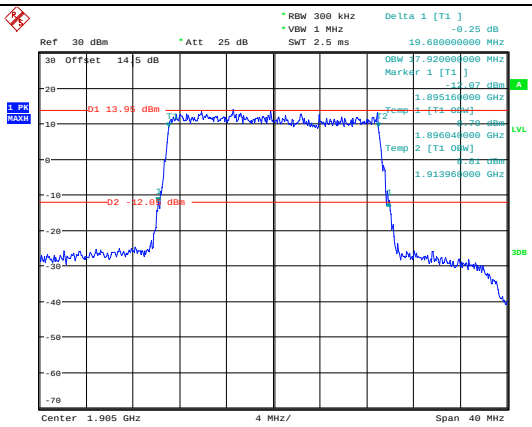
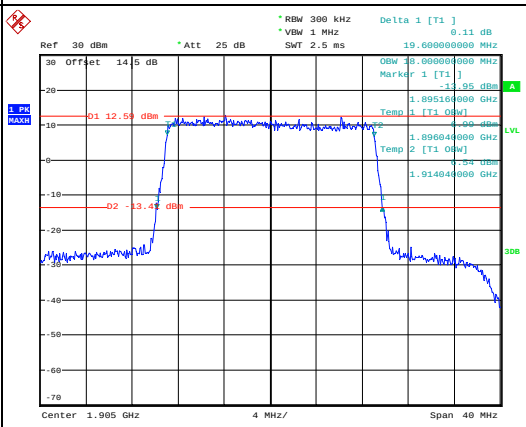
Occupied Bandwidth

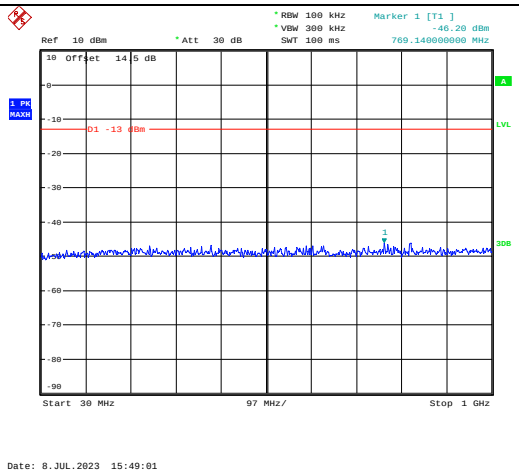
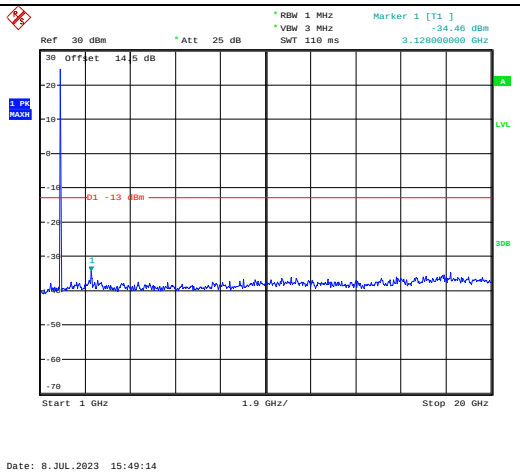
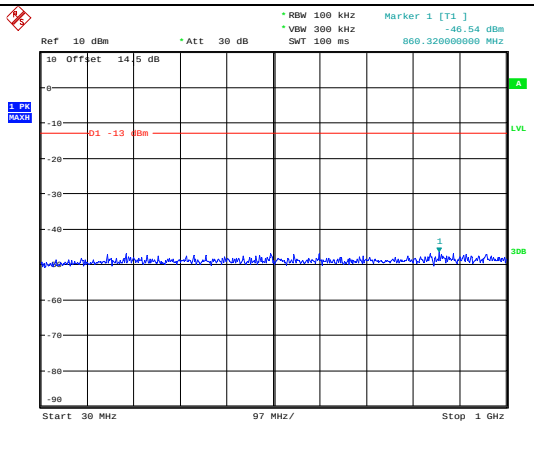
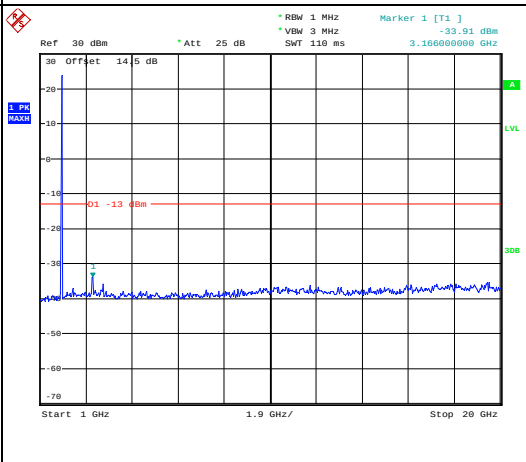
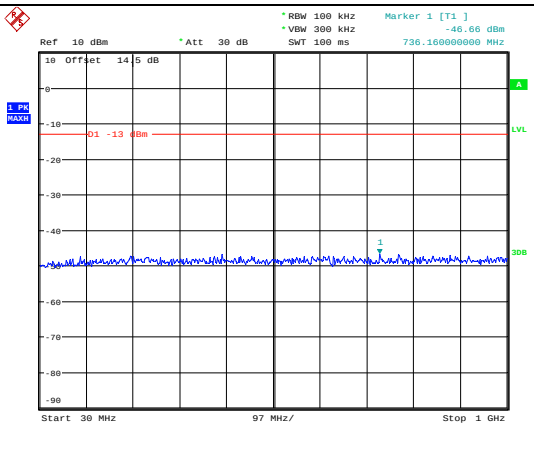
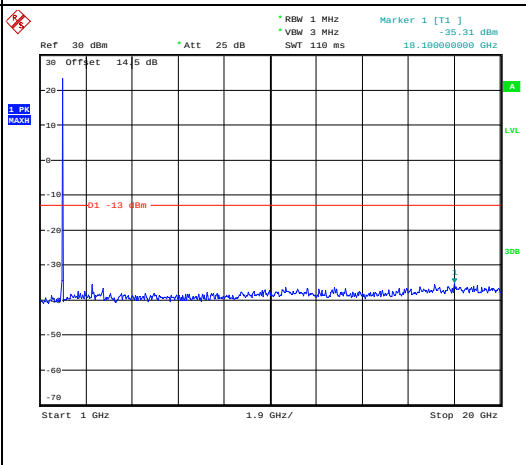
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

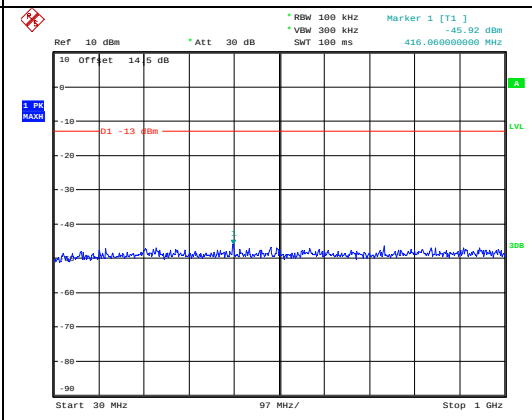
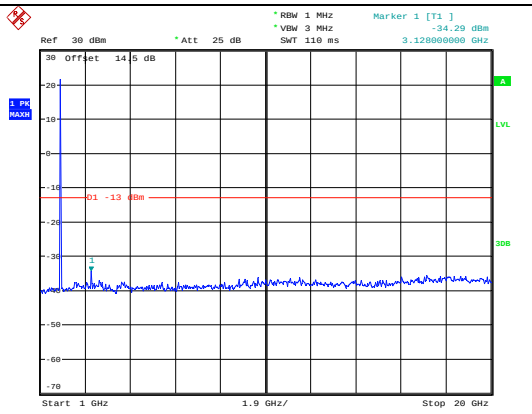
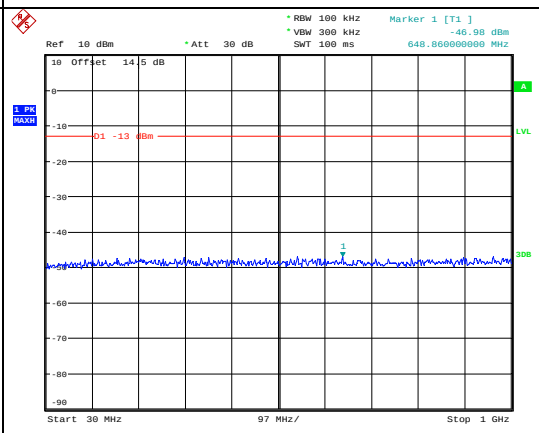
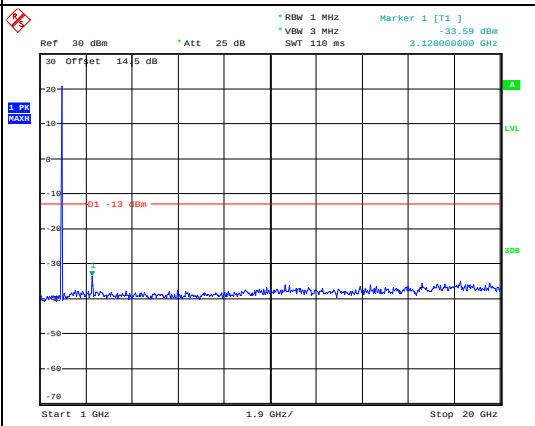
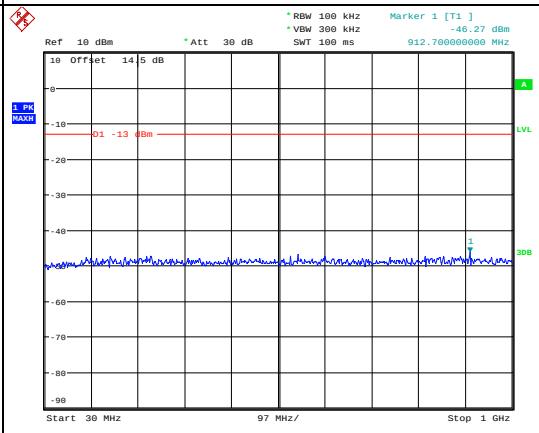
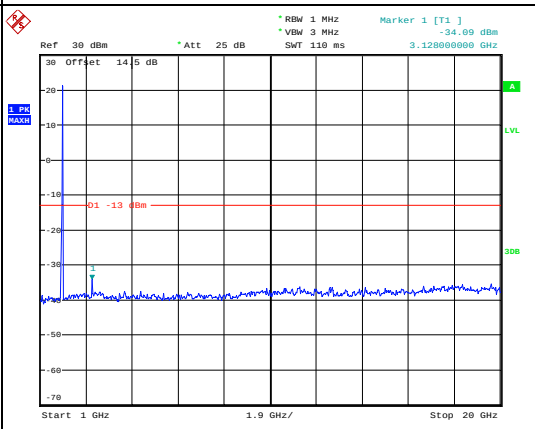
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

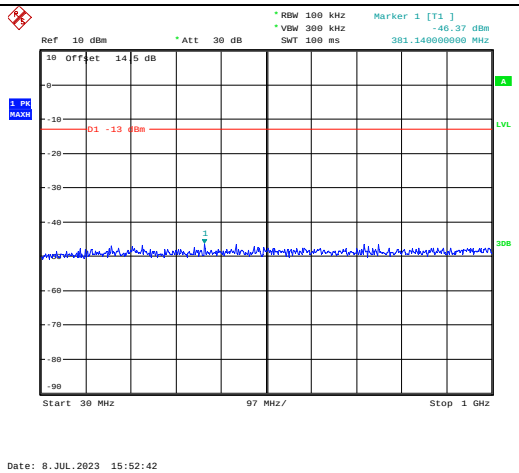
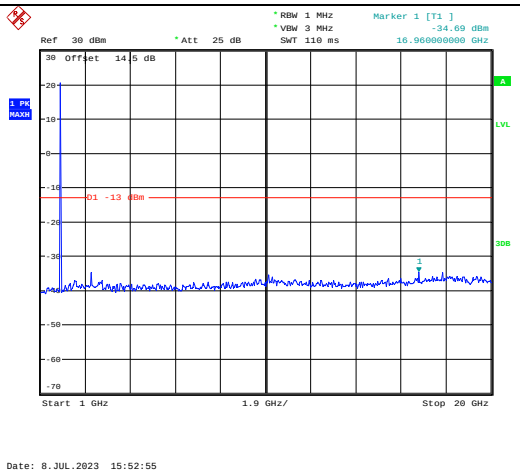
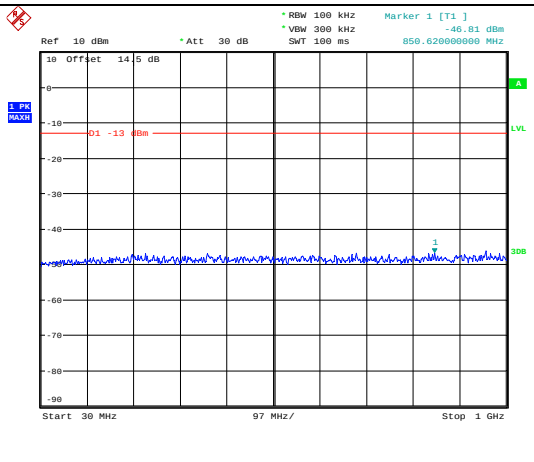
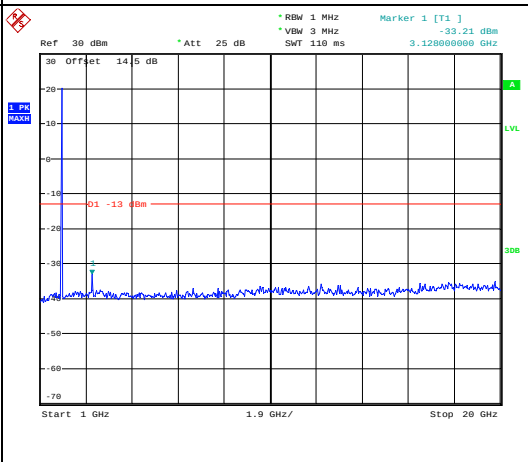
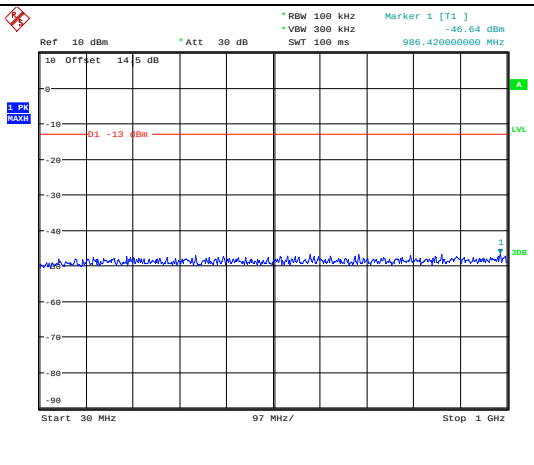
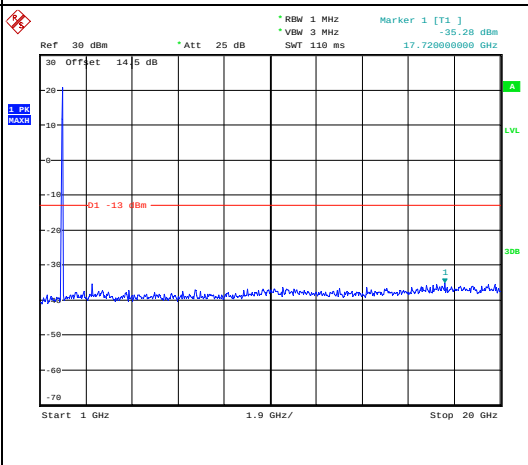
Occupied Bandwidth

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

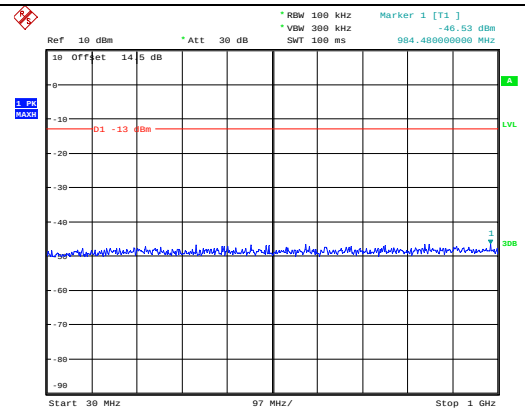
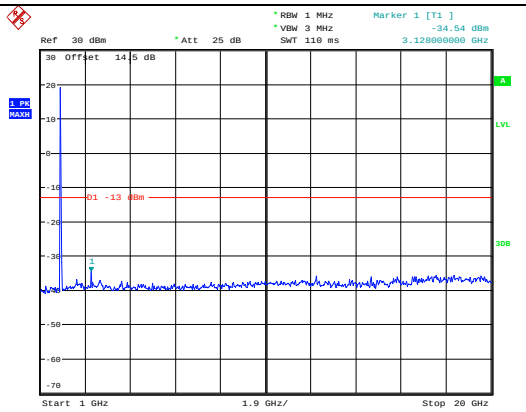
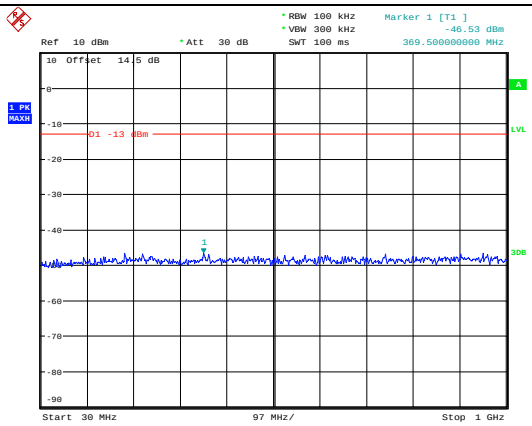
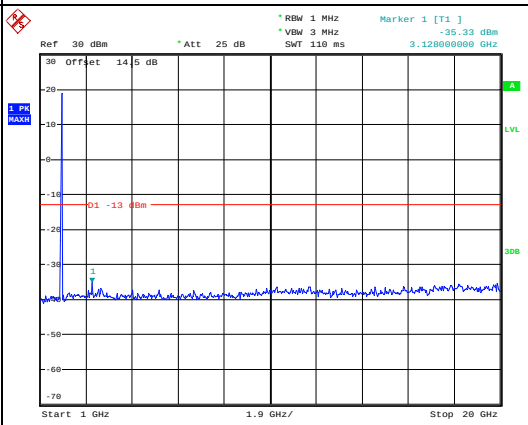
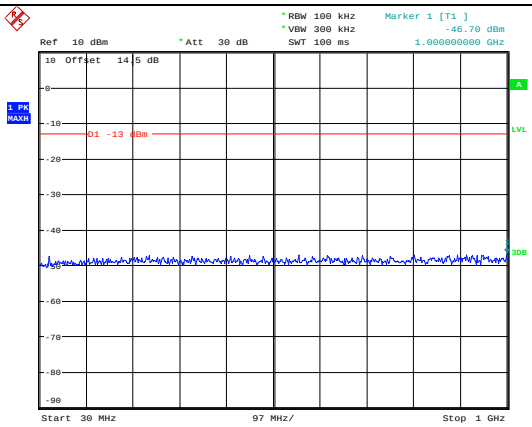
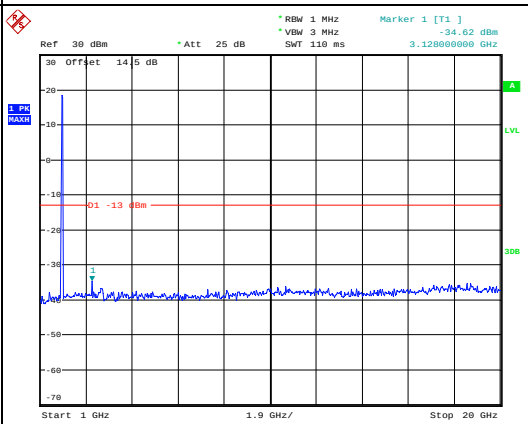
Occupied Bandwidth		
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

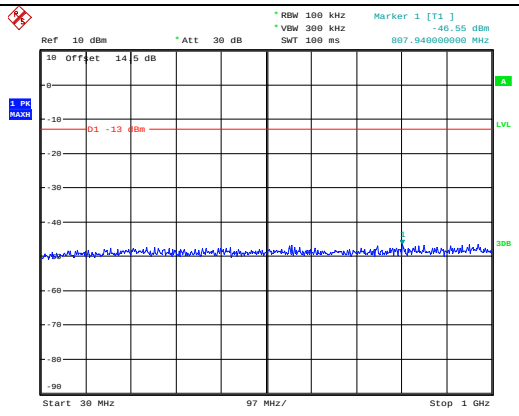
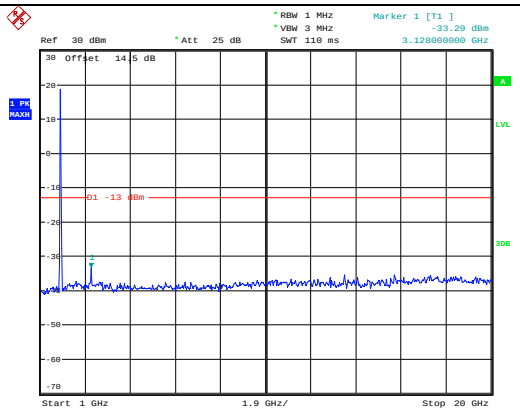
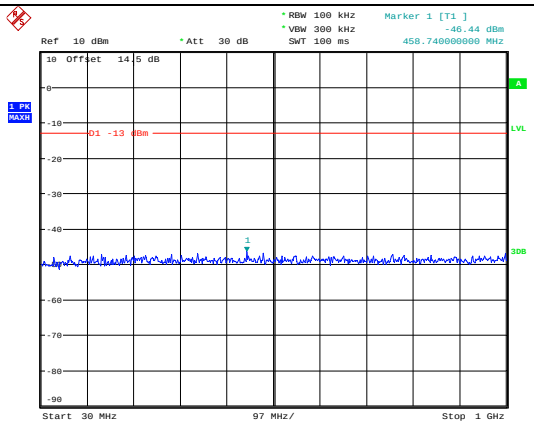
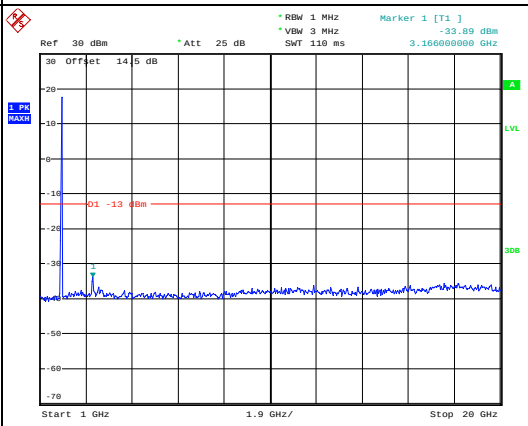
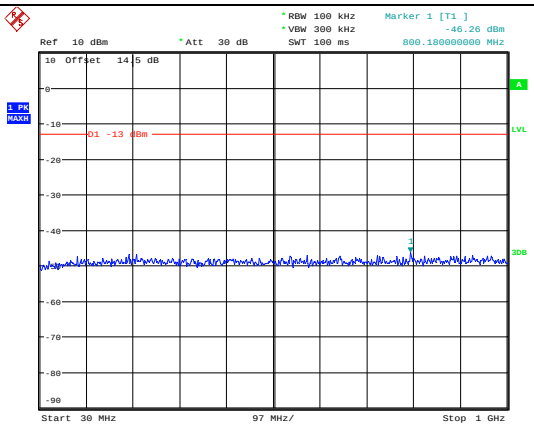
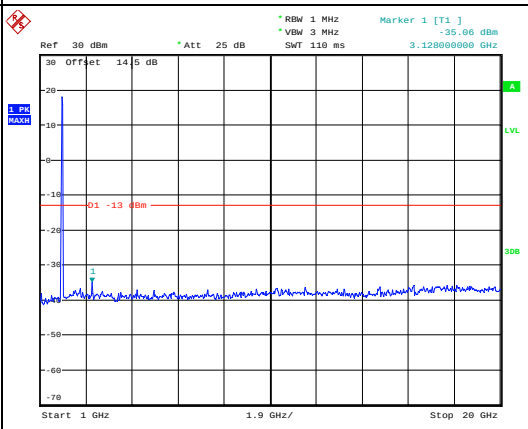
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

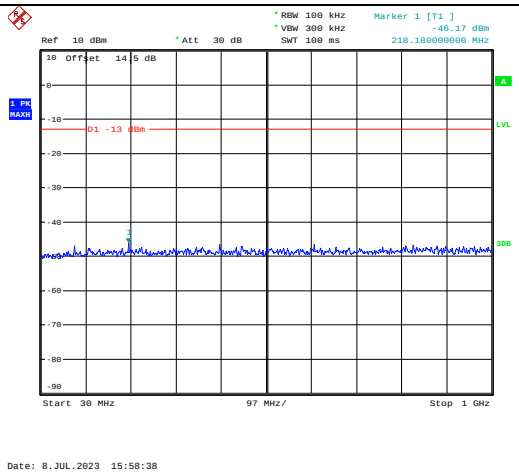
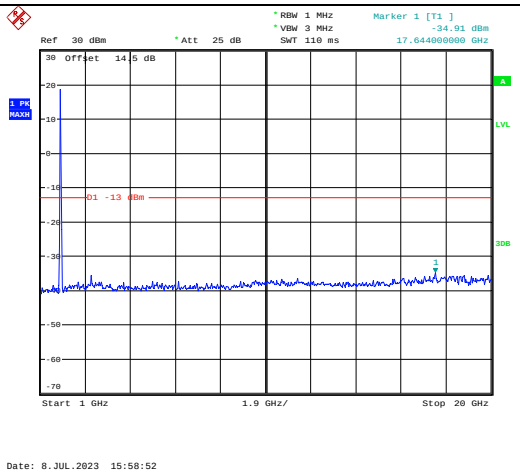
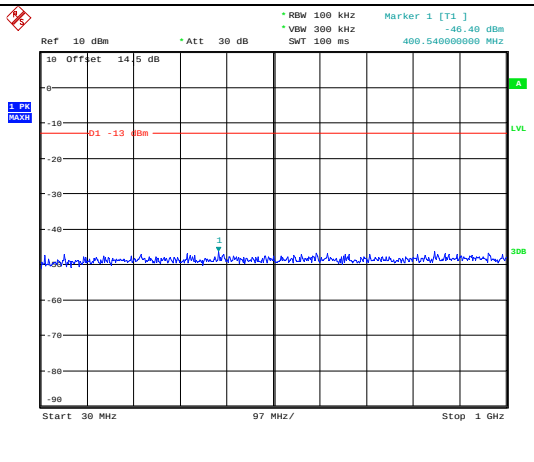
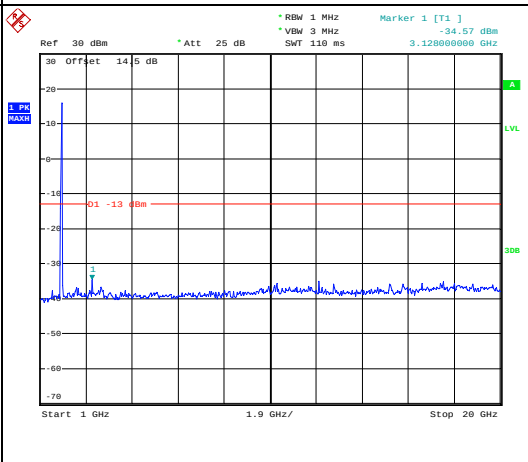
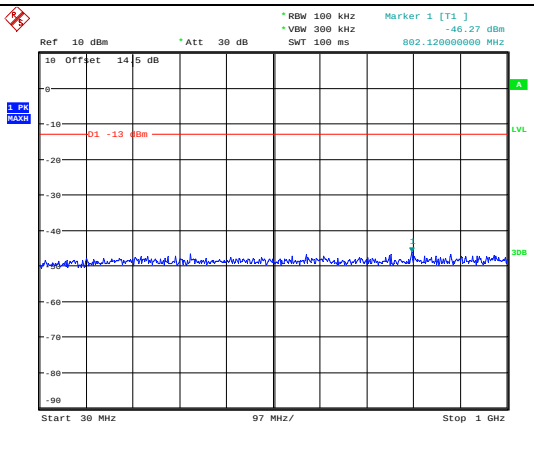
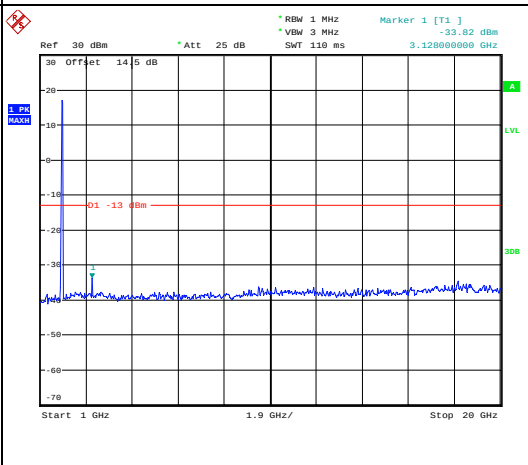
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

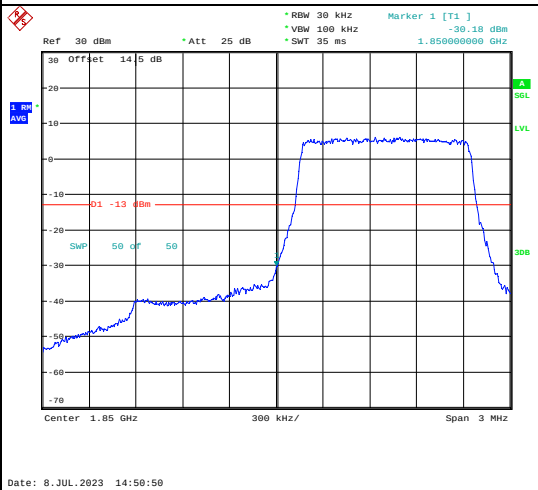
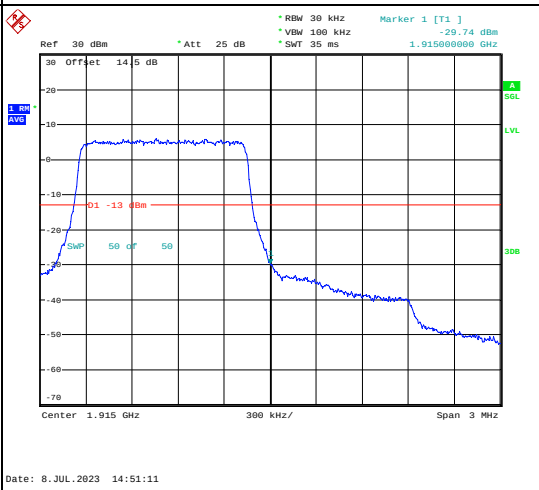
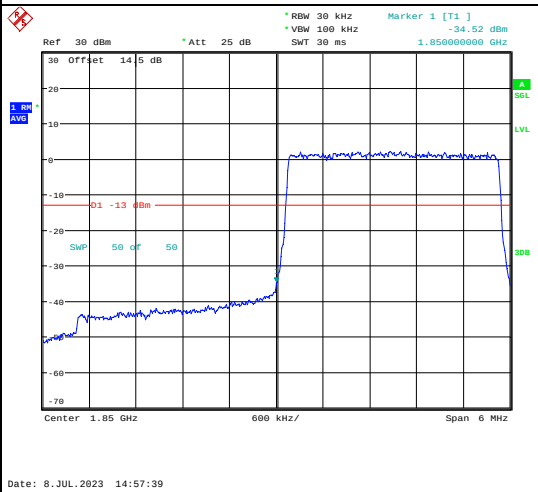
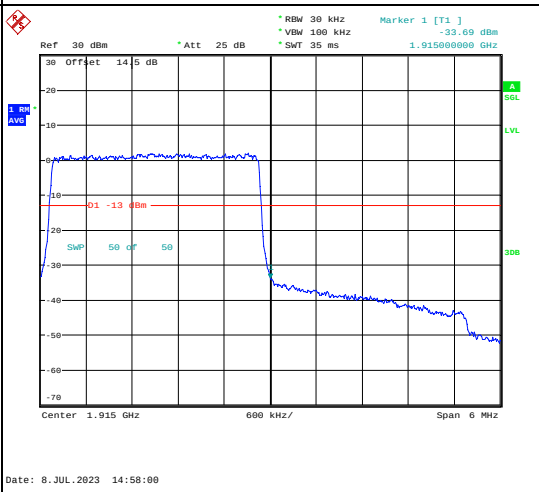
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest	 Date: 8.JUL.2023 15:52:42	 Date: 8.JUL.2023 15:52:55
Middle	 Date: 8.JUL.2023 15:53:13	 Date: 8.JUL.2023 15:53:26
Highest	 Date: 8.JUL.2023 15:53:45	 Date: 8.JUL.2023 15:53:57

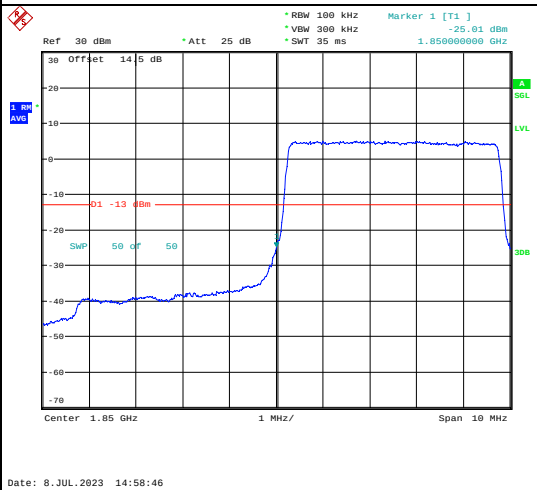
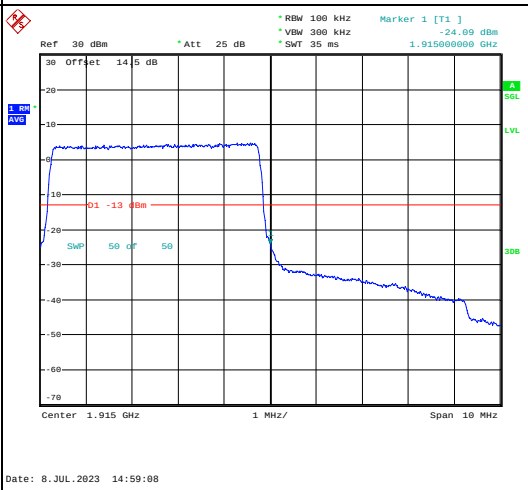
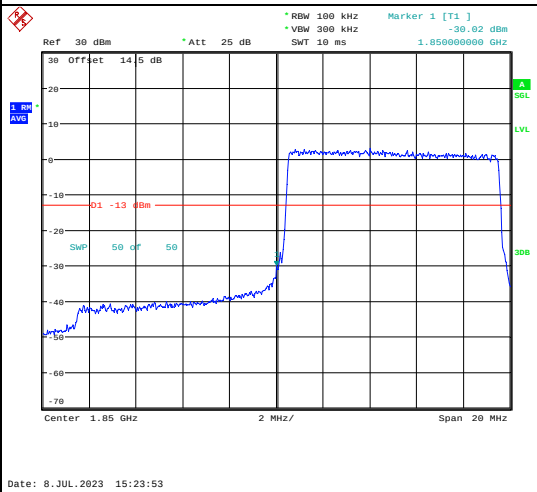
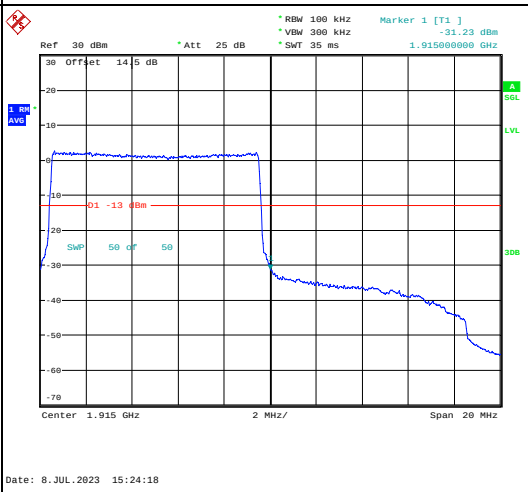
Spurious Emissions at Antenna Terminal

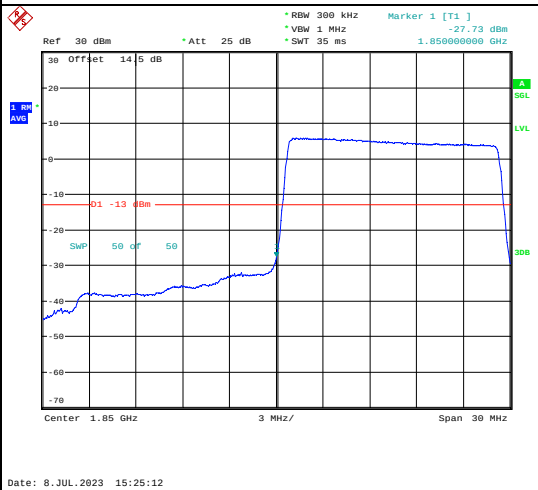
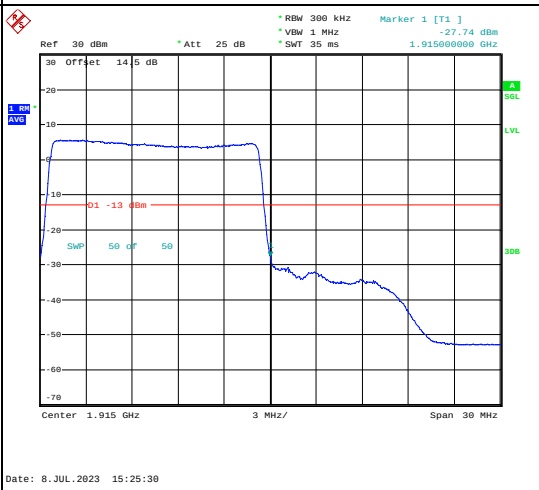
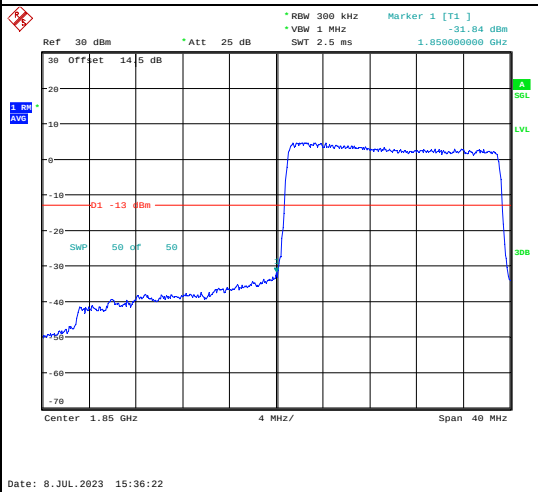
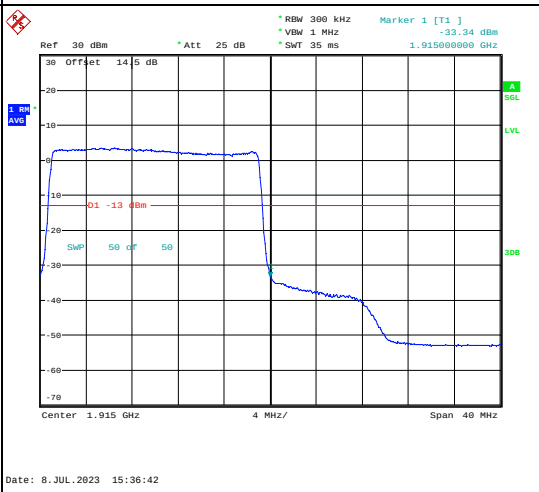
Channel	10MHz Bandwidth QPSK	
Lowest	 Date: 8.JUL.2023 15:54:39	 Date: 8.JUL.2023 15:54:52
Middle	 Date: 8.JUL.2023 15:55:10	 Date: 8.JUL.2023 15:55:23
Highest	 Date: 8.JUL.2023 15:55:41	 Date: 8.JUL.2023 15:55:54

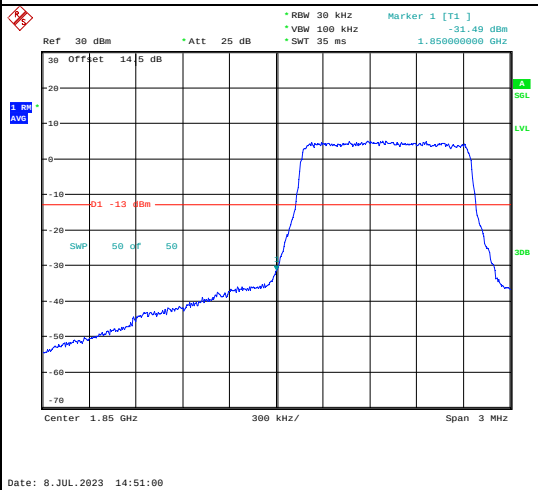
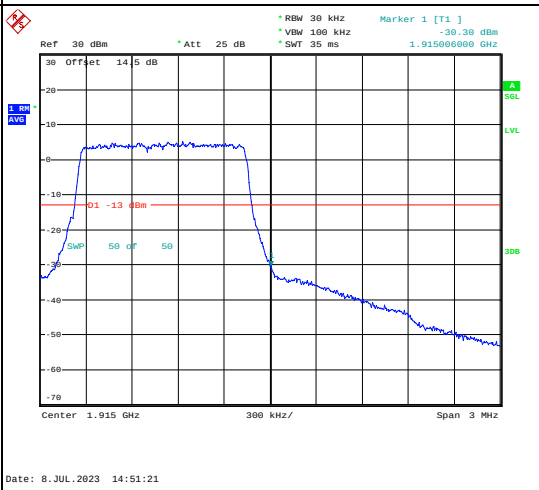
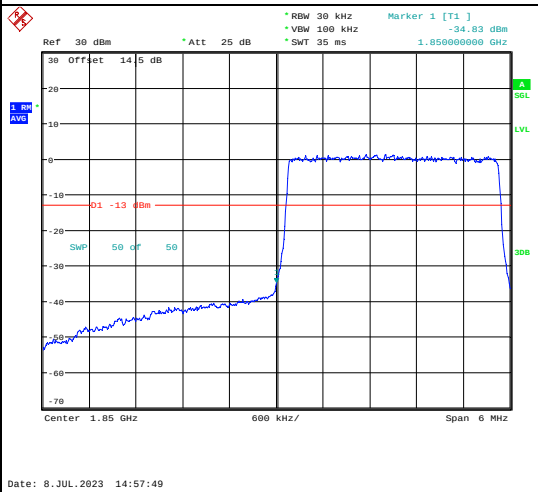
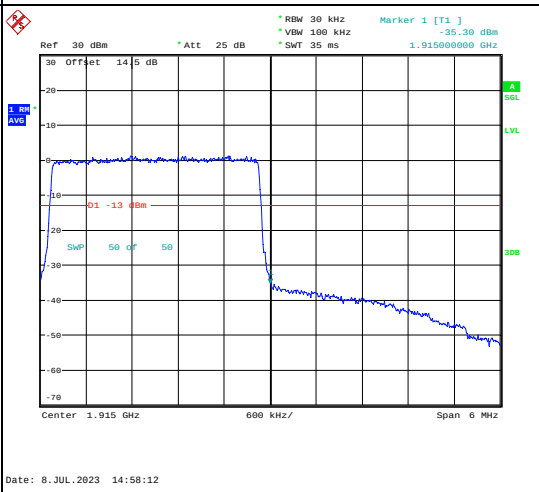
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

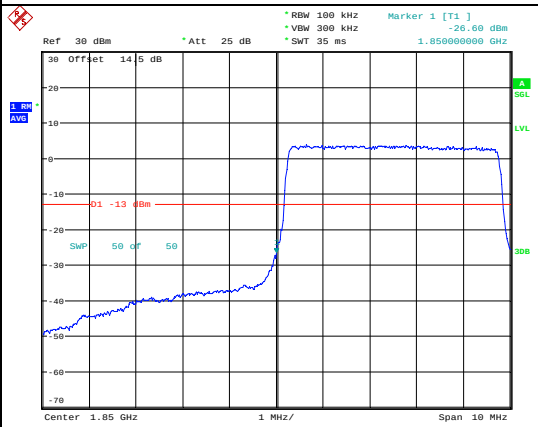
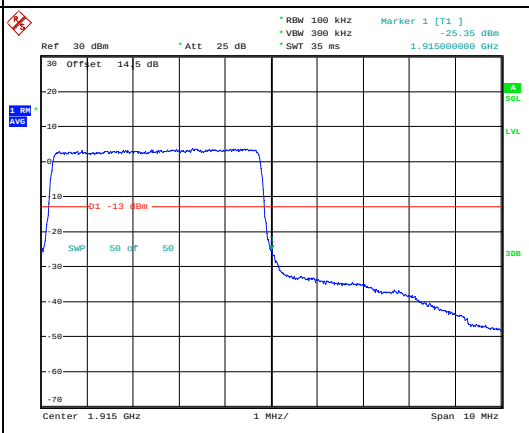
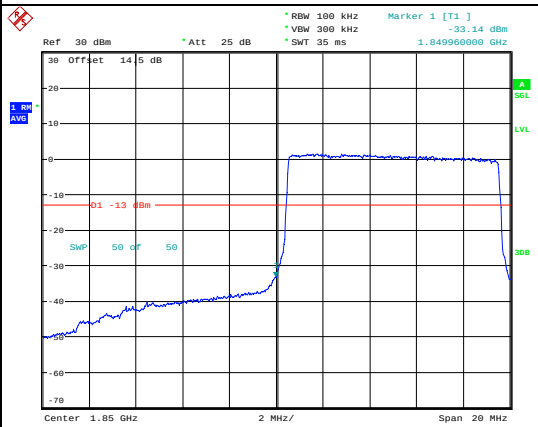
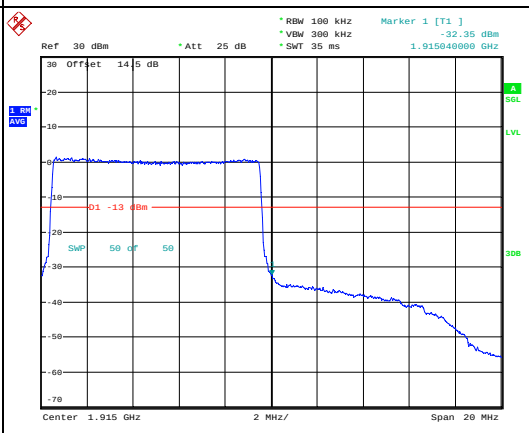
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

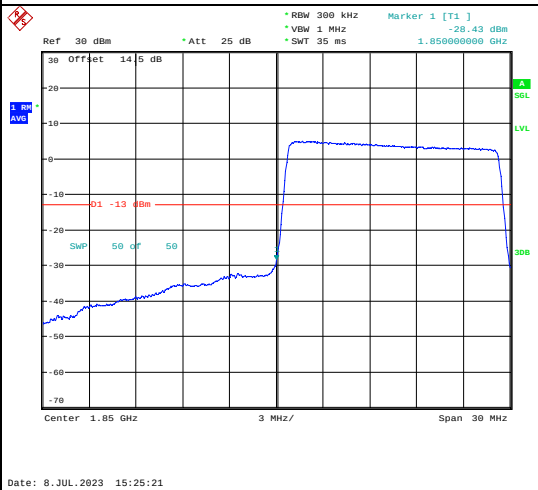
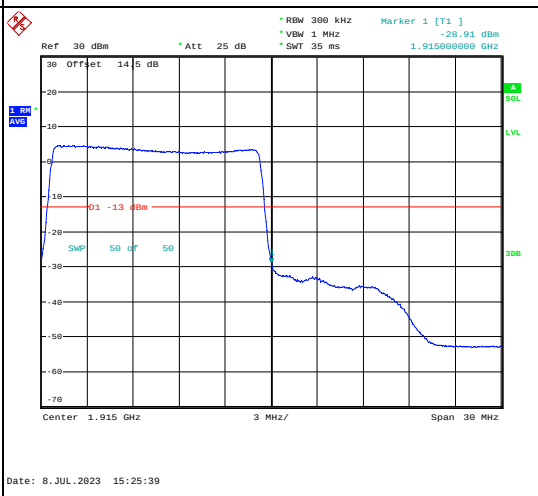
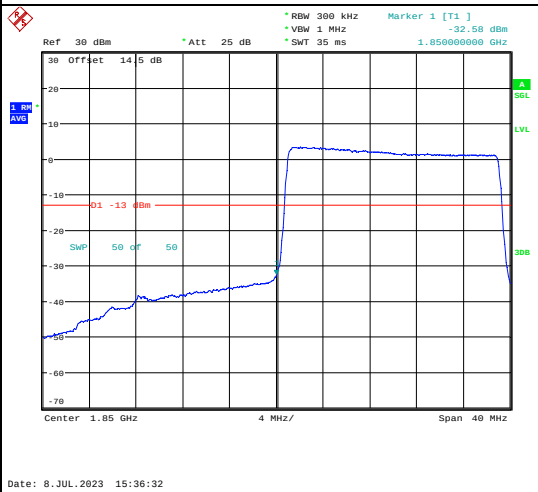
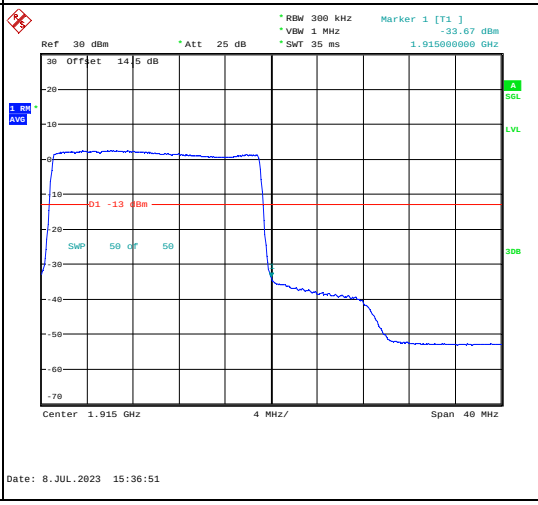
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 1.4MHz		
QPSK 3MHz		

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

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 15MHz		
QPSK 20MHz		

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

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

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 15MHz		
16QAM 20MHz		

4.12 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/7/10
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022/7/15	2023/7/14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022/7/15	2023/7/14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023/3/31	2024/3/30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	N/A	N/A
Unknown	Coaxial tee connector	Unknown	2204004	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).*

Test Frequency for Each Mode:

Operation Bandwidth	Lowest Frequency For 90S (MHz)	Highest Frequency For 90S (MHz)	Channel Cross 90S and 22H	Lowest Frequency For 22H (MHz)	Middle Frequency For 22H (MHz)	Highest Frequency For 22H (MHz)
1.4MHz	814.7	823.3	824	824.7	831.5	848.3
3MHz	815.5	822.5	824	825.5	831.5	847.5
5MHz	816.5	821.5	824	826.5	831.5	846.5
10MHz	819	/	824	829	831.5	844
15MHz	821.5	/	824	831.5	836.5	841.5

Note: 15MHz bandwidth 821.5MHz cross Rules 90S and 22H.

Test Data:

FCC§2.1046; § 22.913 (a), § 90.635

RF Output Power:

Test Bandwidth & Modulation	Resource Block & RB offset	Conducted Average Output Power(dBm)						Maximum ERP (dBm)	ERP Limit (dBm)
		Lowest Channel For 90S	Highest Channel For 90S	Cross Channe	Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H		
1.4MHz QPSK	RB1#0	23.93	23.79	23.78	23.04	23.56	23.26	20.35	38.45
	RB1#3	24.1	23.98	23.97	23.23	23.64	23.43		
	RB1#5	23.92	23.80	23.79	23.05	23.39	23.22		
	RB3#0	24.05	23.97	23.96	23.22	23.55	23.39		
	RB3#3	24.04	24.01	24.00	23.26	23.58	23.38		
	RB6#0	23	22.91	22.90	22.16	22.64	22.27		
1.4MHz 16QAM	RB1#0	23.06	22.88	22.87	22.13	22.7	22.31	19.49	38.45
	RB1#3	23.24	23.11	23.10	22.36	22.68	22.49		
	RB1#5	23.1	22.90	22.89	22.15	22.55	22.27		
	RB3#0	23.02	23.08	23.07	22.33	22.61	22.59		
	RB3#3	23.13	23.09	23.08	22.34	22.62	22.58		
	RB6#0	22.3	21.91	21.90	21.16	21.99	21.4		
3MHz QPSK	RB1#0	24.46	23.88	23.87	23.13	24.41	24.3	20.76	38.45
	RB1#8	24.51	23.91	23.90	23.16	24.4	23.78		
	RB1#14	24.48	23.93	23.92	23.18	24.38	23.69		
	RB6#0	23.44	22.79	22.78	22.04	23.3	22.69		
	RB6#9	23.47	22.81	22.80	22.06	23.33	22.64		
	RB15#0	23.53	22.92	22.91	22.17	23.39	22.72		
3MHz 16QAM	RB1#0	24.06	23.04	23.03	22.29	23.56	22.77	20.35	38.45
	RB1#8	24.1	23.06	23.05	22.31	23.41	22.79		
	RB1#14	24.09	23.11	23.10	22.36	23.32	22.71		
	RB6#0	22.53	21.89	21.88	21.14	22.4	21.72		
	RB6#9	22.54	21.97	21.96	21.22	22.42	21.69		
	RB15#0	22.6	21.91	21.90	21.16	22.34	21.85		
5MHz QPSK	RB1#0	24.09	23.73	23.72	22.98	23.86	23.94	20.45	38.45
	RB1#13	24.2	23.72	23.71	22.97	23.72	23.86		
	RB1#24	23.98	23.62	23.61	22.87	23.69	23.68		
	RB15#0	23.32	22.73	22.72	21.98	23.21	22.82		
	RB15#10	23.28	22.73	22.72	21.98	23.14	22.67		
	RB25#0	23.22	22.74	22.73	21.99	23.08	22.77		
5MHz 16QAM	RB1#0	23	22.98	22.97	22.23	22.91	23.04	19.49	38.45
	RB1#13	23.24	23.18	23.17	22.43	22.88	23.13		
	RB1#24	23.08	22.98	22.97	22.23	22.66	22.96		
	RB15#0	22.54	21.72	21.71	20.97	22.24	21.86		
	RB15#10	22.52	21.83	21.82	21.08	22.18	21.71		
	RB25#0	22.5	21.93	21.92	21.18	22.2	21.84		
10MHz QPSK	RB1#0	24.01	/	23.75	23.01	24.08	24.22	20.48	38.45
	RB1#25	24.23	/	24.05	23.31	24.14	23.95		
	RB1#49	24.03	/	23.67	22.93	23.92	23.74		
	RB25#0	23.38	/	22.78	22.04	23.23	23		
	RB25#25	23.34	/	22.88	22.14	23.31	22.76		
	RB50#0	23.41	/	22.83	22.09	23.34	22.85		
10MHz 16QAM	RB1#0	23.09	/	23.02	22.28	23.6	22.99	20.00	38.45
	RB1#25	23.22	/	23.16	22.42	23.75	23.09		

	RB1#49	23.12	/	23.06	22.32	23.59	22.92		
	RB25#0	22.6	/	21.67	20.93	22.47	21.99		
	RB25#25	22.46	/	21.73	20.99	22.49	21.84		
	RB50#0	22.62	/	21.63	20.89	22.41	21.85		
15MHz QPSK	RB1#0	24.51	/	23.86	23.12	23.8	23.7	20.76	38.45
	RB1#38	24.51	/	23.94	23.20	23.7	23.47		
	RB1#74	24.45	/	23.94	23.20	23.49	23.2		
	RB36#0	23.6	/	22.76	22.02	22.91	22.42		
	RB36#39	23.58	/	22.87	22.13	22.67	22.31		
	RB75#0	23.64	/	22.84	22.10	22.89	22.38		
15MHz 16QAM	RB1#0	23.9	/	23.03	22.29	23.11	22.5	20.24	38.45
	RB1#38	23.99	/	23.12	22.38	22.98	22.51		
	RB1#74	23.83	/	23.09	22.35	22.88	22.38		
	RB36#0	22.58	/	21.81	21.07	21.94	21.54		
	RB36#39	22.58	/	21.95	21.21	21.76	21.33		
	RB75#0	22.56	/	21.92	21.18	21.87	21.74		

Note:
ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd)
G_T(dBd)=G_T(dBi)-2.15
The limit of 90S is 50dBm(100W) for conducted. Limit of 22H is 38.45dBm for ERP. The stricter limit was listed in the table.

Result:	**Pass**

Peak-to-average Ratio (PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Frequency For 22H	Middle Frequency For 22H	Highest Frequency For 22H	
15MHz QPSK	RB1#0	8.08	8.27	8.37	13
	RB75#0	5.93	5.87	5.80	13
15MHz 16QAM	RB1#0	8.46	8.65	8.43	13
	RB75#0	6.89	6.86	6.83	13
				Result:	**Pass**

FCC §2.1049, §22.905, §90.209: Occupied Bandwidth						
Operation Mode	99% Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.104	1.106	1.106	1.106	1.098	1.098
1.4MHz 16QAM	1.092	1.096	1.096	1.101	1.098	1.104
3MHz QPSK	2.688	2.683	2.683	2.683	2.868	2.687
3MHz 16QAM	2.688	2.683	2.683	2.673	2.904	2.687
5MHz QPSK	4.520	4.519	4.503	4.519	4.520	4.500
5MHz 16QAM	4.520	4.519	4.503	4.487	4.520	4.500
10MHz QPSK	8.960	/	8.974	8.974	8.960	8.960
10MHz 16QAM	8.960	/	8.974	8.974	8.960	8.960
15MHz QPSK	13.500	/	13.558	13.558	13.500	13.500
15MHz 16QAM	13.560	/	13.510	13.510	13.500	13.500
Operation Mode	26 dB Occupied Bandwidth (MHz)					
	Lowest For 90S	Highest For 90S	Cross	Lowest For 22H	Middle For 22H	Highest For 22H
1.4MHz QPSK	1.296	1.321	1.320	1.301	1.098	1.296
1.4MHz 16QAM	1.302	1.300	1.296	1.308	1.098	1.320
3MHz QPSK	2.880	2.879	2.886	2.892	2.687	2.892
3MHz 16QAM	2.880	2.894	2.891	2.879	2.687	2.868
5MHz QPSK	5.000	4.942	4.923	4.952	4.520	4.940
5MHz 16QAM	4.980	4.978	4.971	4.936	4.520	4.900
10MHz QPSK	9.600	/	9.679	9.635	9.520	9.560
10MHz 16QAM	9.680	/	9.615	9.603	9.560	9.560
15MHz QPSK	14.760	/	14.846	14.869	15.600	14.700
15MHz 16QAM	14.940	/	14.760	14.840	14.760	14.700
Note: The test plots please refer to the Plots of Occupied Bandwidth						

FCC §2.1051, §22.917(a), § 90.691:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

FCC §2.1051, §22.917(a), §90.691: Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

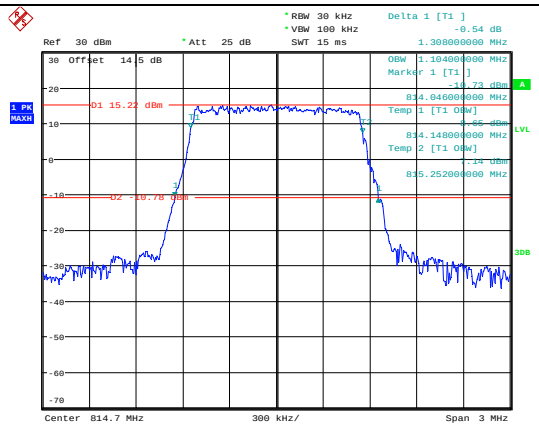
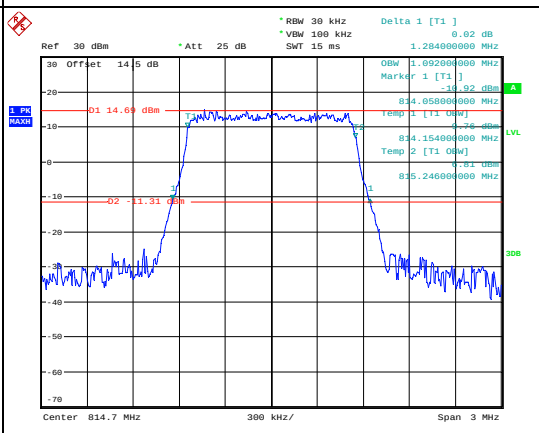
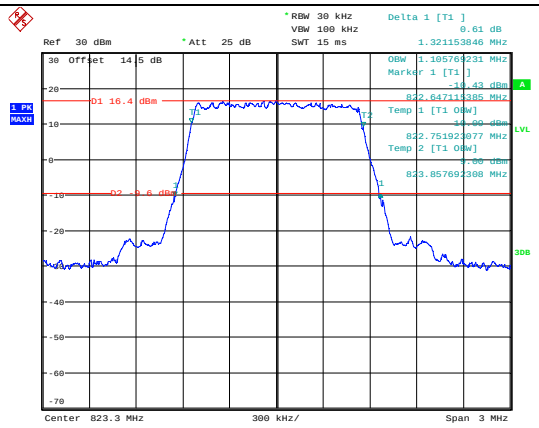
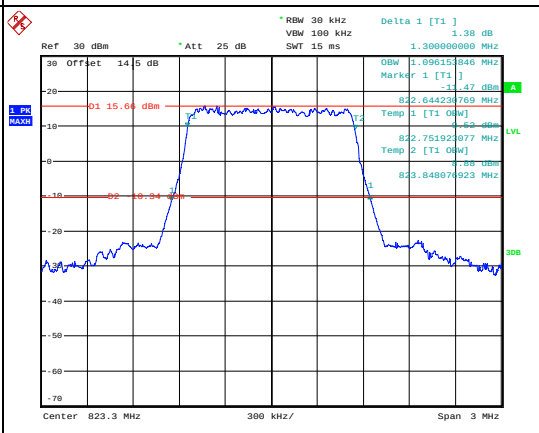
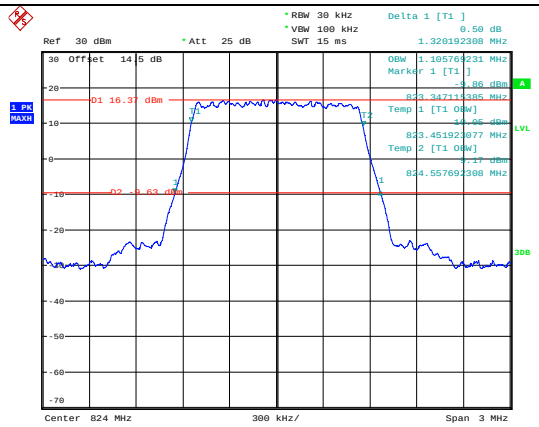
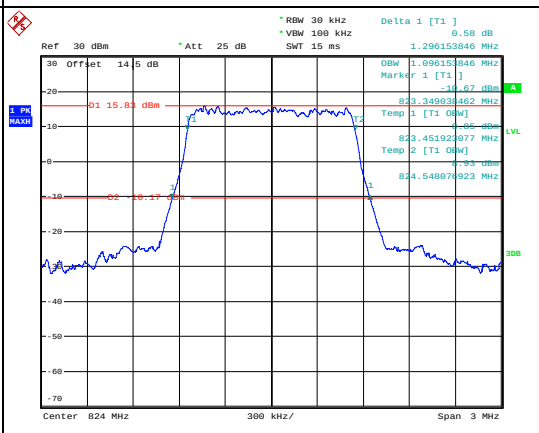
FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz QPSK		Test Channel:	821.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	3.05	0.004	2.5
	-20	3.8	-1.99	-0.002	2.5
	-10	3.8	11.25	0.014	2.5
	0	3.8	12.13	0.015	2.5
	10	3.8	12.14	0.015	2.5
	20	3.8	-4.55	-0.005	2.5
	30	3.8	-2.66	-0.003	2.5
	40	3.8	-0.73	-0.001	2.5
	50	3.8	-3.44	-0.004	2.5
Frequency Stability vs. Voltage	20	3.65	-1.62	-0.002	2.5
	20	4.35	10.93	0.013	2.5
				Result:	**Pass**

FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz QAM		Test Channel:	821.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	1.14	0.001	2.5
	-20	3.8	10.7	0.013	2.5
	-10	3.8	10.38	0.012	2.5
	0	3.8	12.49	0.015	2.5
	10	3.8	-2.79	-0.003	2.5
	20	3.8	-3.21	-0.004	2.5
	30	3.8	11.94	0.014	2.5
	40	3.8	-4.1	-0.005	2.5
	50	3.8	-1.05	-0.001	2.5
Frequency Stability vs. Voltage	20	3.65	-3.1	-0.004	2.5
	20	4.35	10.76	0.013	2.5
				Result:	**Pass**

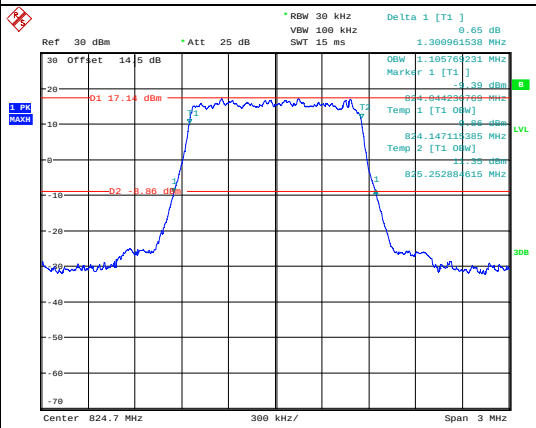
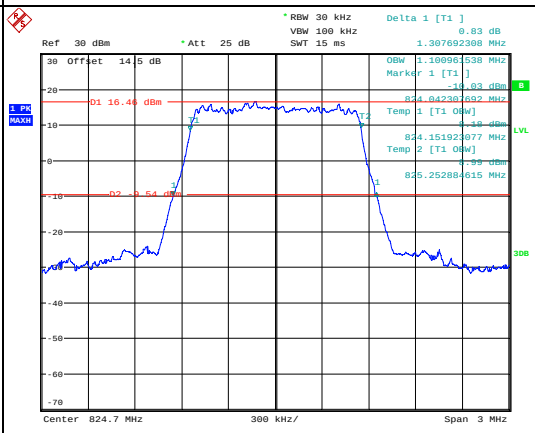
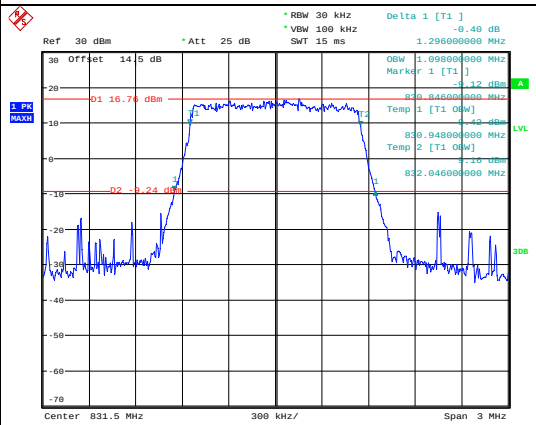
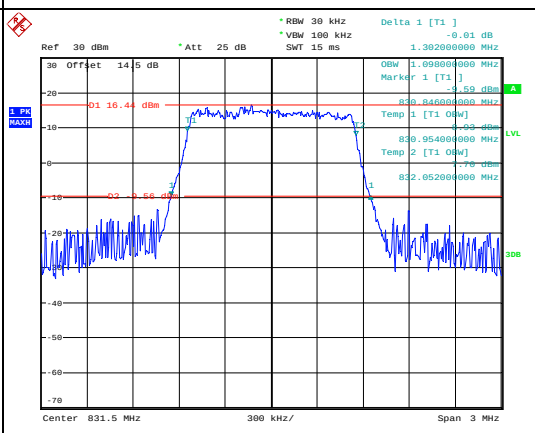
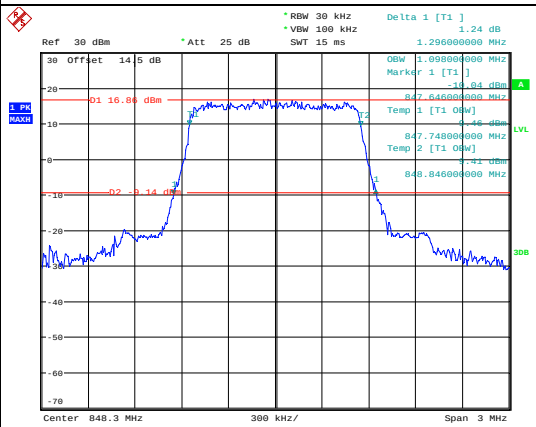
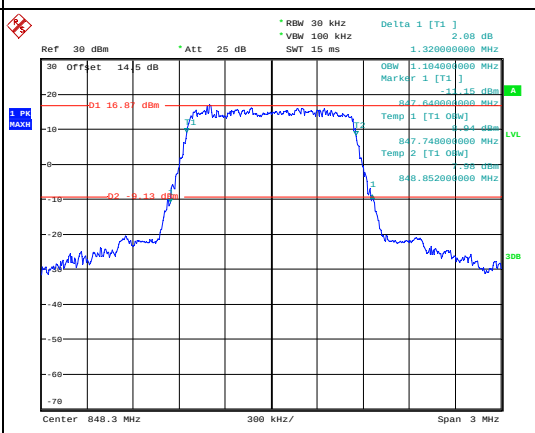
FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	3.12	0.004	2.5
	-20	3.8	-2.33	-0.003	2.5
	-10	3.8	11.98	0.014	2.5
	0	3.8	12.33	0.015	2.5
	10	3.8	12.12	0.015	2.5
	20	3.8	-4.67	-0.006	2.5
	30	3.8	-2.43	-0.003	2.5
	40	3.8	-0.61	-0.001	2.5
	50	3.8	-3.64	-0.004	2.5
Frequency Stability vs. Voltage	20	3.65	-1.58	-0.002	2.5
	20	4.35	11.09	0.013	2.5
				Result:	**Pass**

FCC §2.1055, §22.355, §90.213: Frequency Stability					
Test Modulation:	15 MHz 16QAM		Test Channel:	831.5	MHz
Test Item	Temperature (℃)	Voltage (V_{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	1.25	0.002	2.5
	-20	3.8	10.49	0.013	2.5
	-10	3.8	10.31	0.012	2.5
	0	3.8	12.36	0.015	2.5
	10	3.8	-2.75	-0.003	2.5
	20	3.8	-2.92	-0.004	2.5
	30	3.8	11.45	0.014	2.5
	40	3.8	-4.33	-0.005	2.5
	50	3.8	-1.14	-0.001	2.5
Frequency Stability vs. Voltage	20	3.65	-3.44	-0.004	2.5
	20	4.35	10.51	0.013	2.5
				Result:	**Pass**

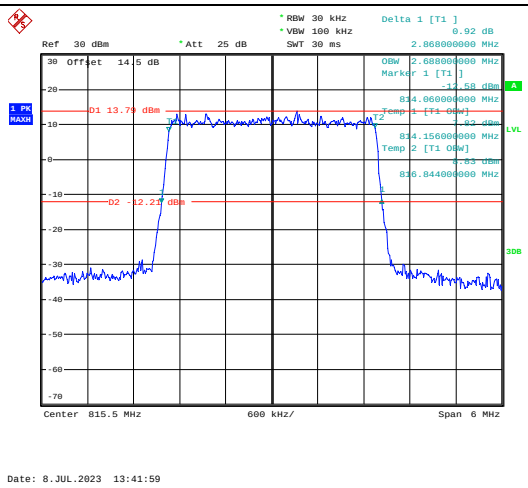
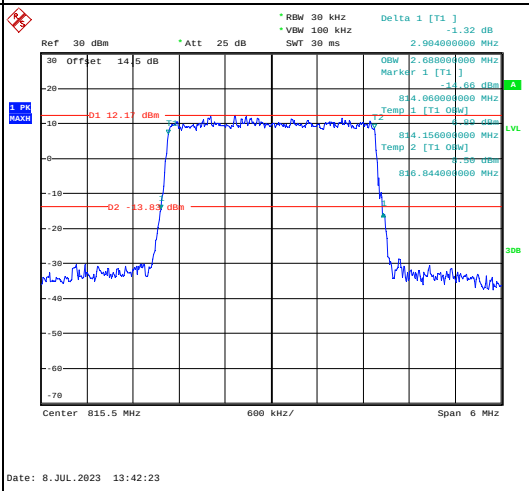
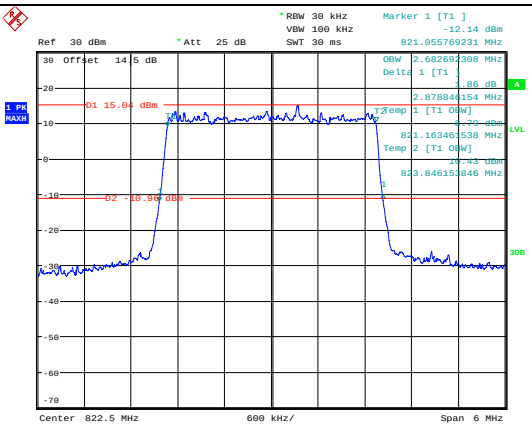
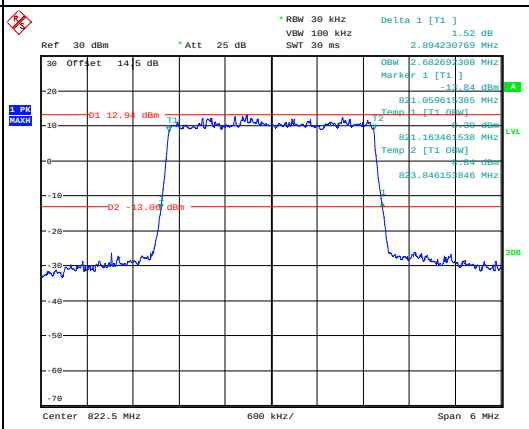
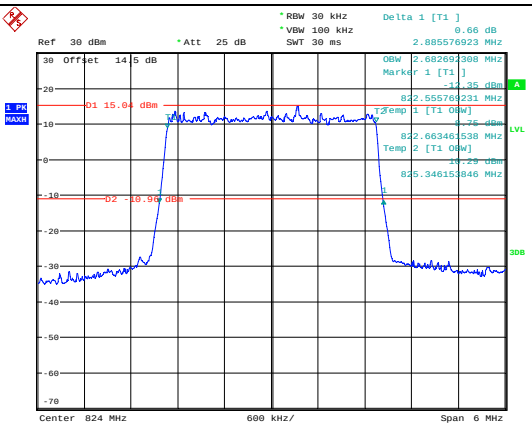
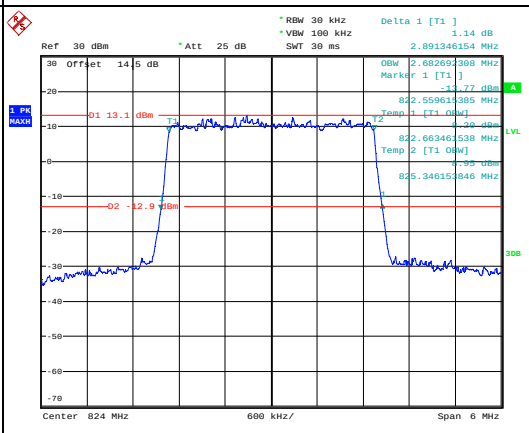
Test Plots (Note: The 14.5dB is the Insertion loss of the RF cable, Power Splitter and DC Block, which was offset into the Spectrum Analyzer)**:**

Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest For 90S		
Highest For 90S		
Cross Channel		

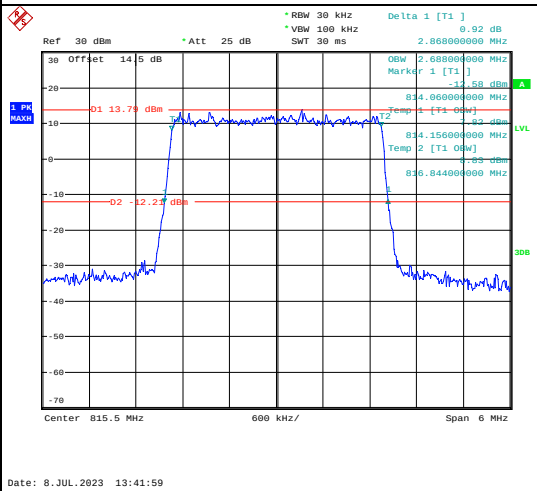
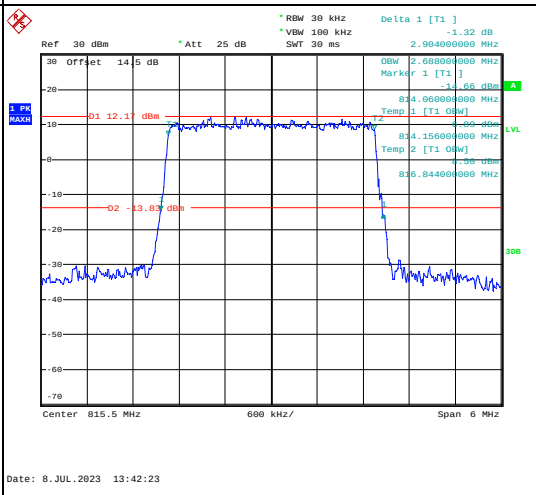
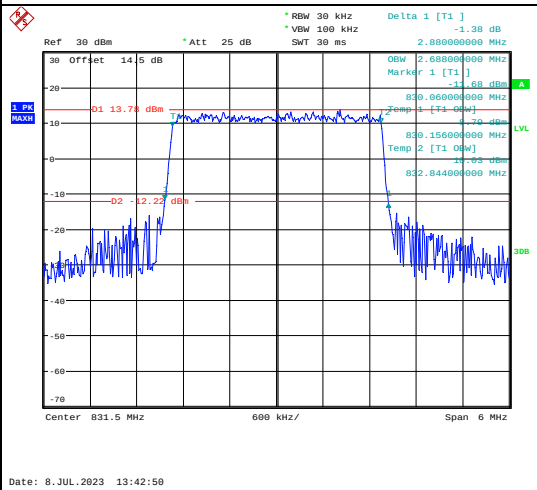
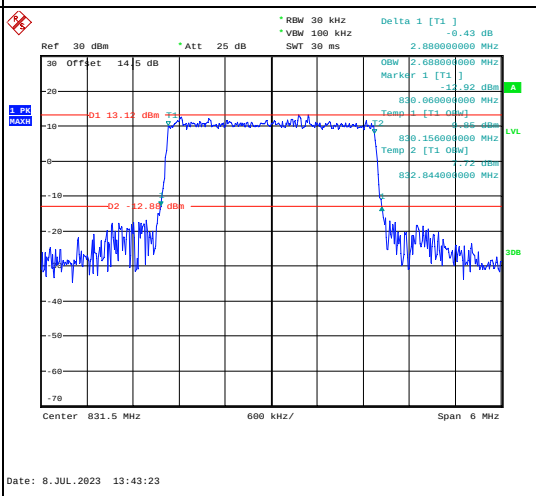
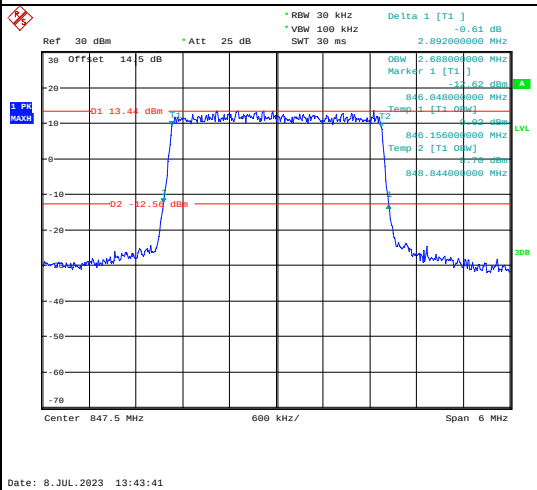
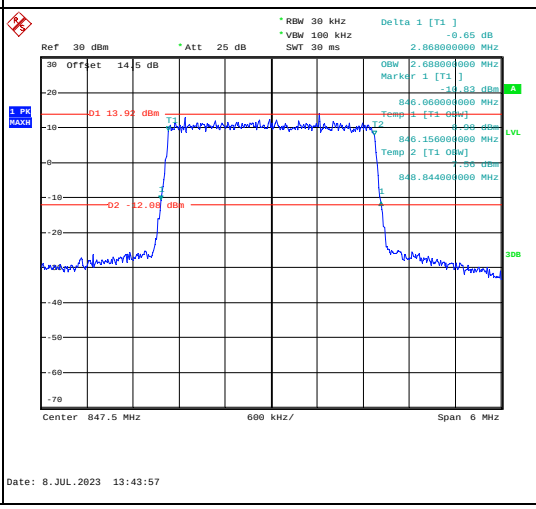
Occupied Bandwidth

Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest For 22H		
Middle For 22H		
Highest For 22H		

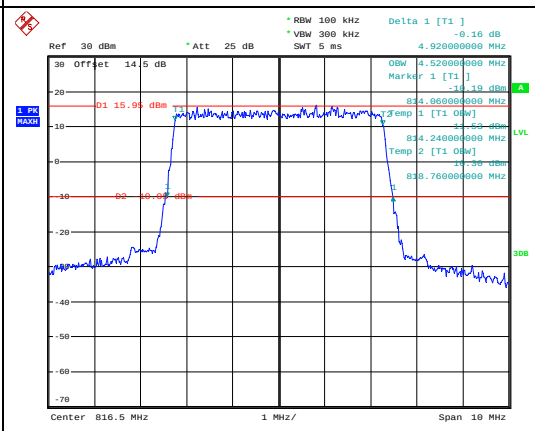
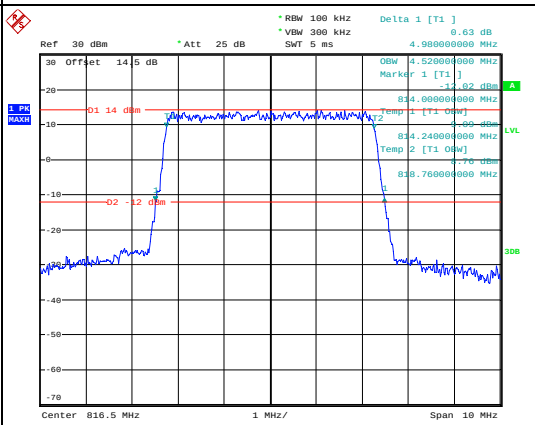
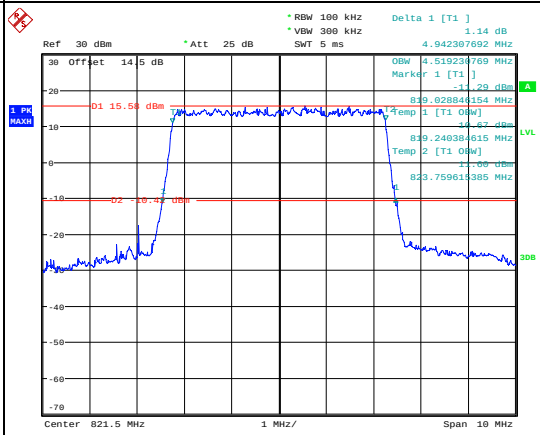
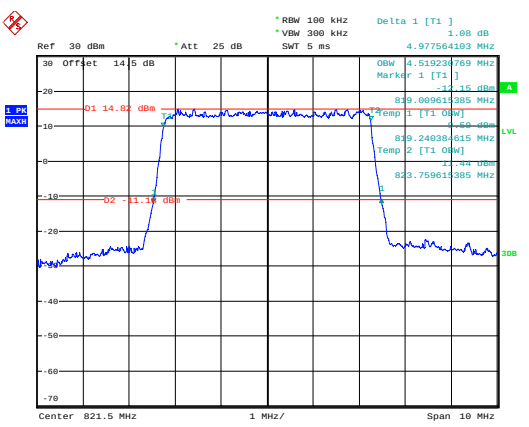
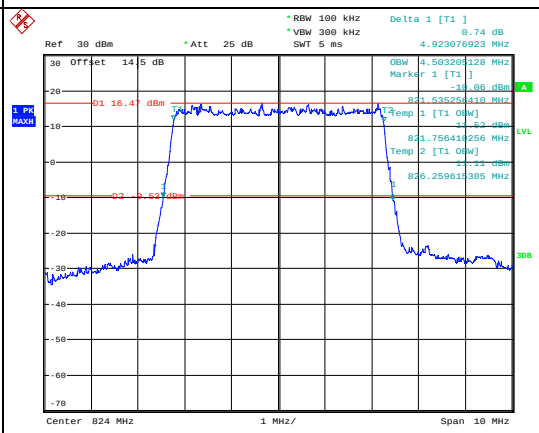
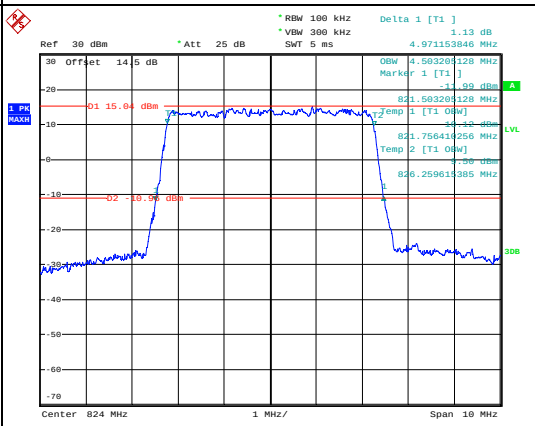
Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 90S	 Date: 8.JUL.2023 13:41:59	 Date: 8.JUL.2023 13:42:23
Highest For 90S	 Date: 10.JUL.2023 10:00:21	 Date: 10.JUL.2023 09:57:27
Cross Channel	 Date: 10.JUL.2023 09:30:10	 Date: 10.JUL.2023 09:32:08

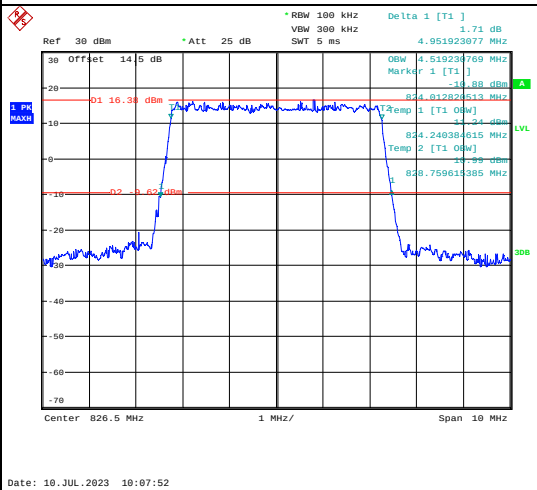
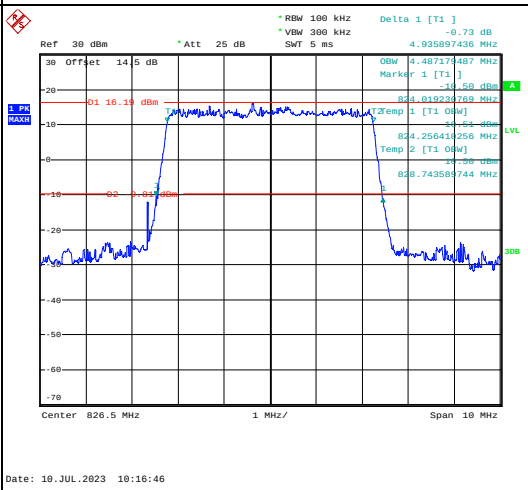
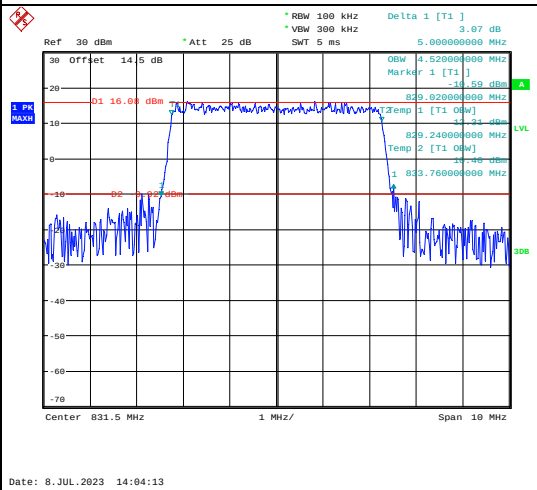
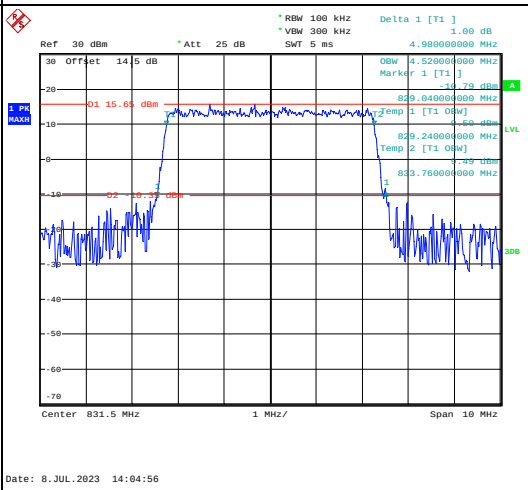
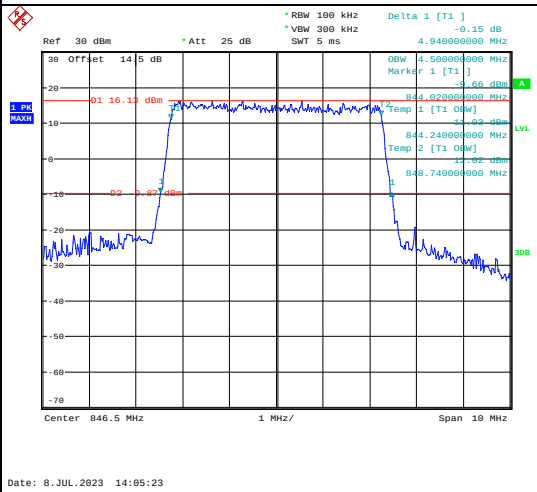
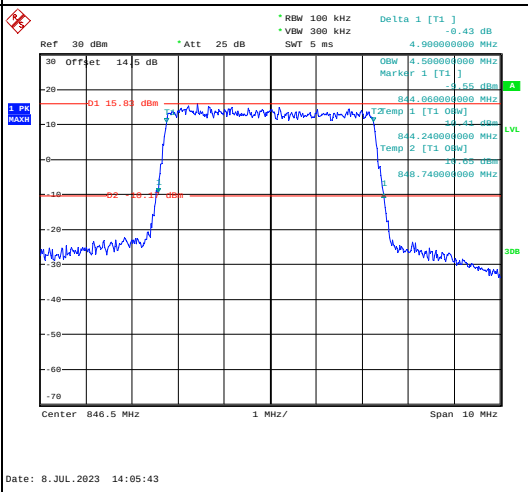
Occupied Bandwidth

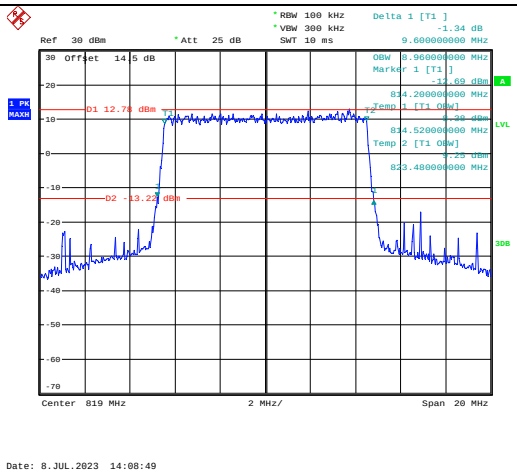
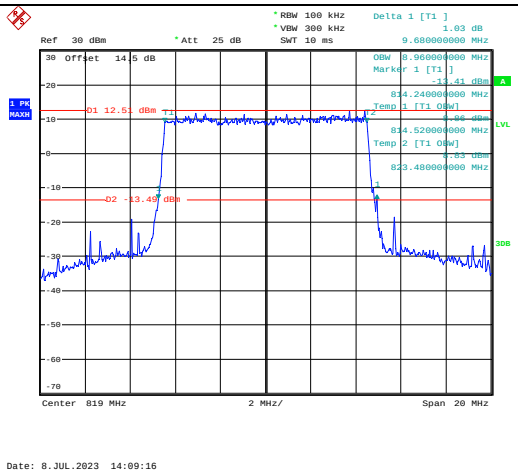
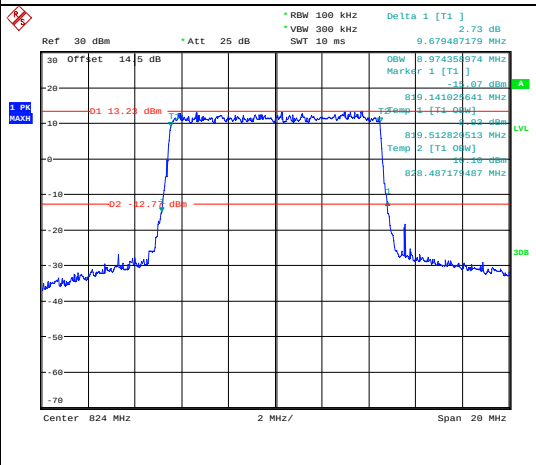
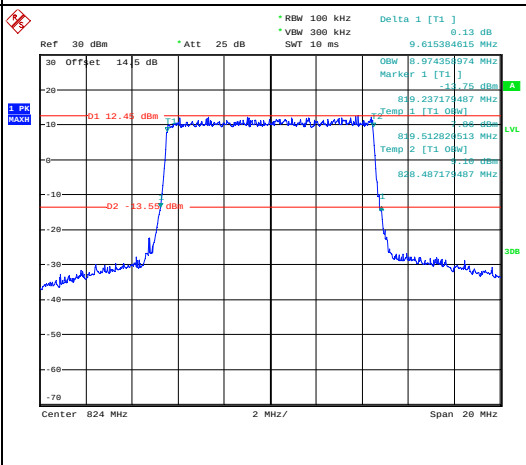
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 22H		
Middle For 22H		
Highest For 22H		

Occupied Bandwidth

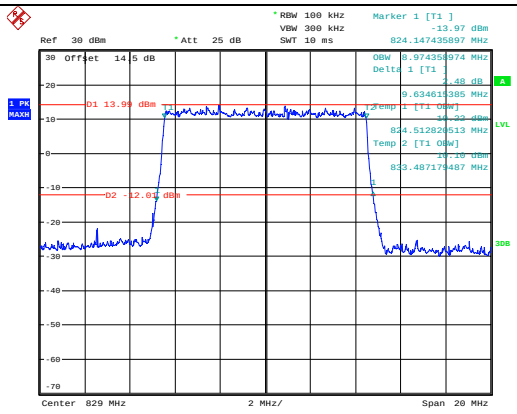
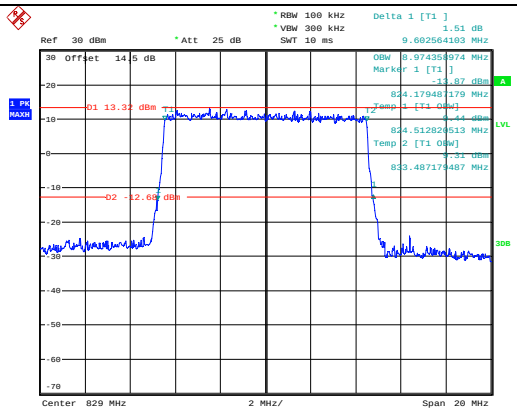
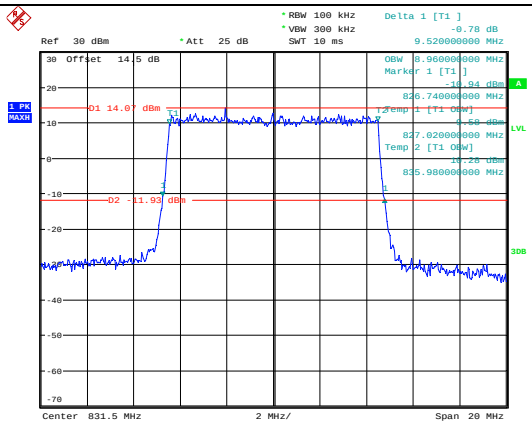
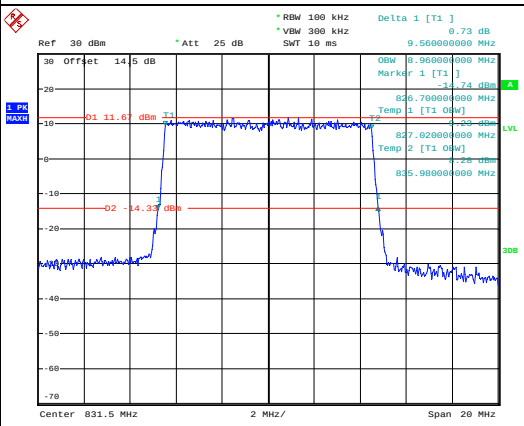
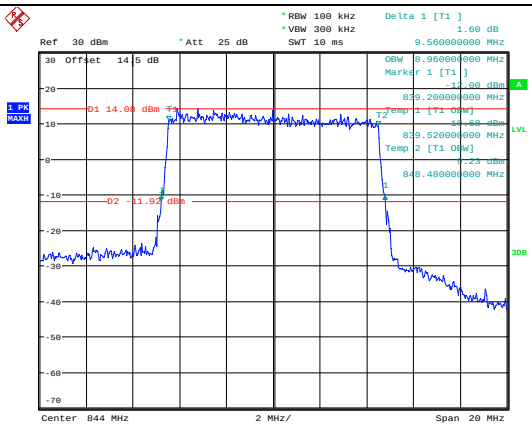
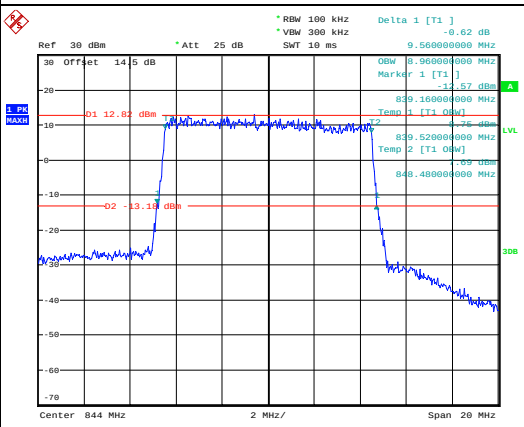
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest For 90S		
Highest For 90S		
Cross Channel		

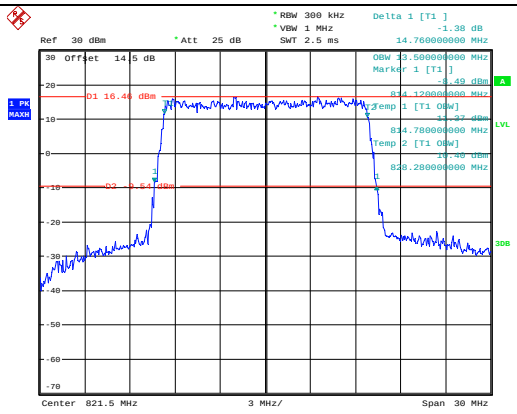
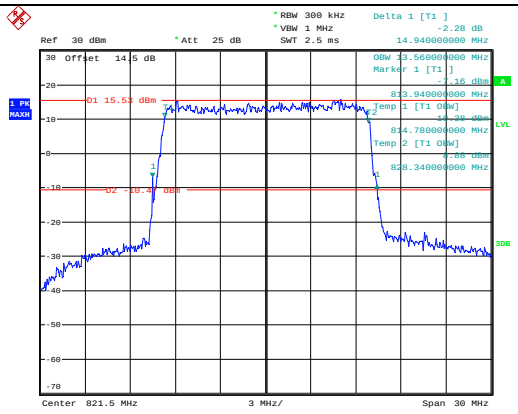
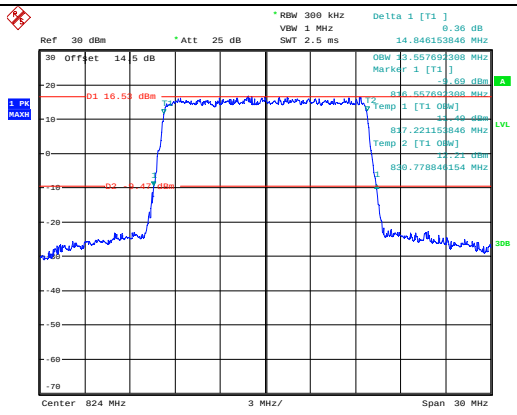
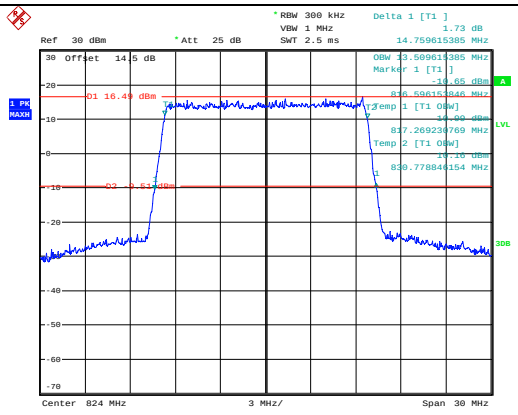
Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest For 22H	 Date: 10.JUL.2023 10:07:52	 Date: 10.JUL.2023 10:16:46
Middle For 22H	 Date: 8.JUL.2023 14:04:13	 Date: 8.JUL.2023 14:04:56
Highest For 22H	 Date: 8.JUL.2023 14:05:23	 Date: 8.JUL.2023 14:05:43

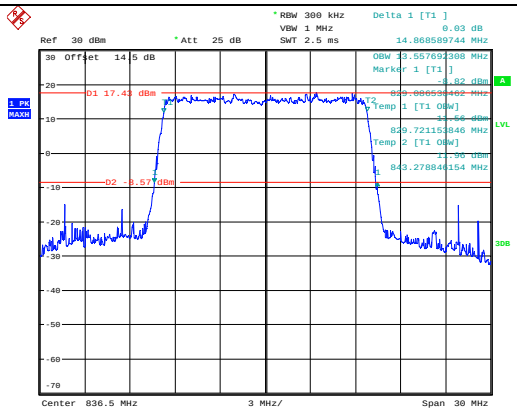
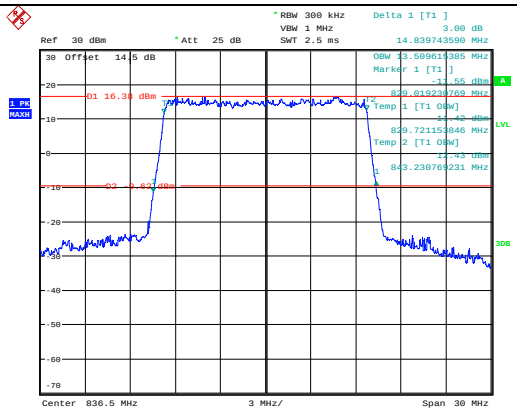
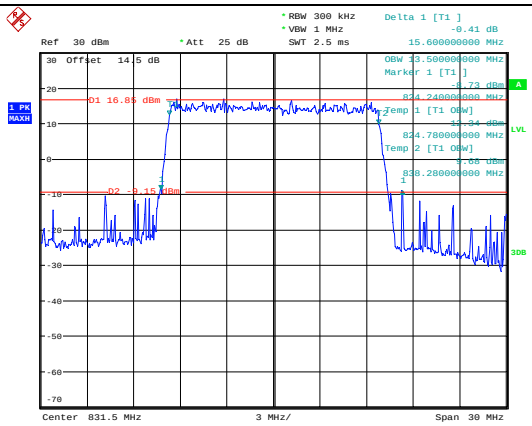
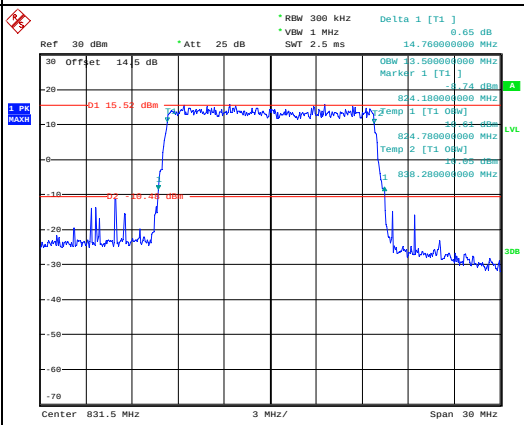
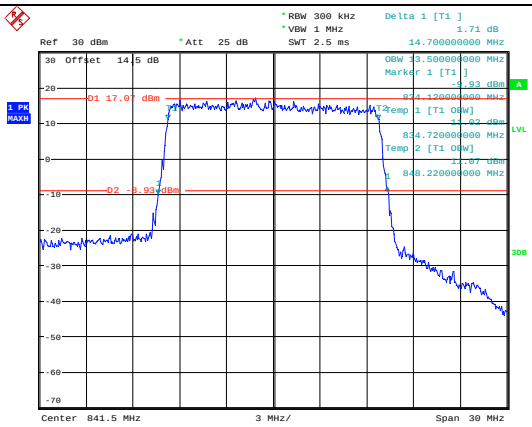
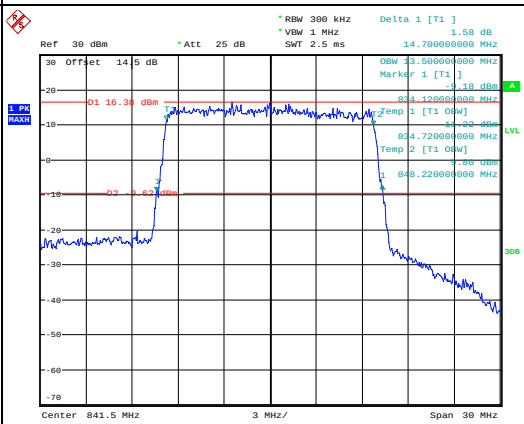
Occupied Bandwidth		
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest For 90S		
Cross Channel		

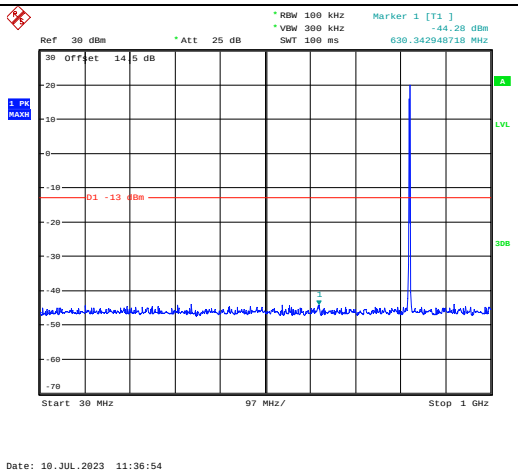
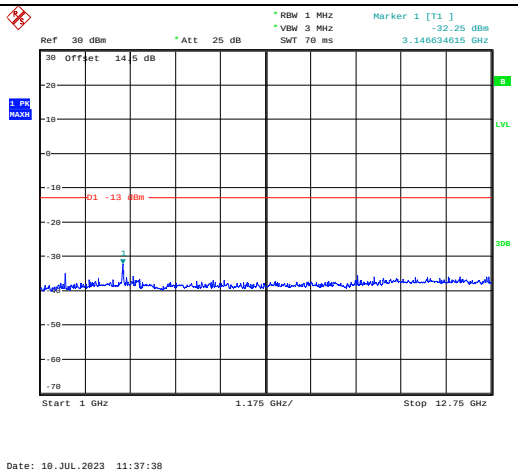
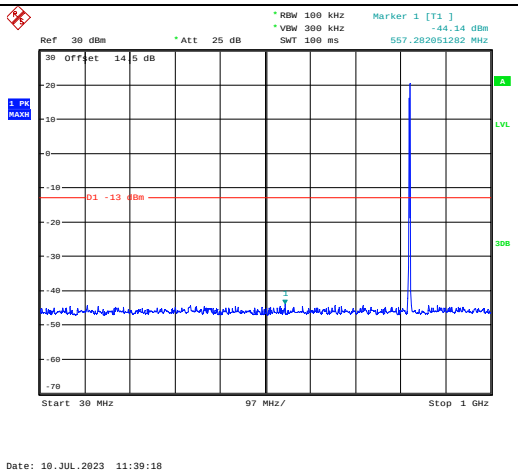
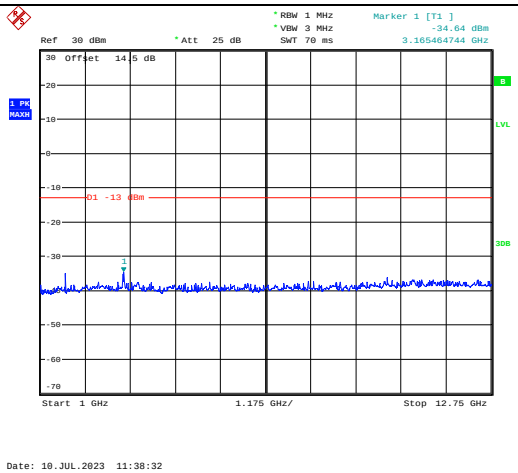
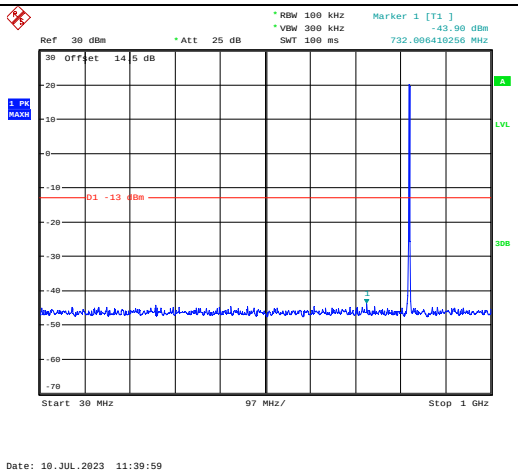
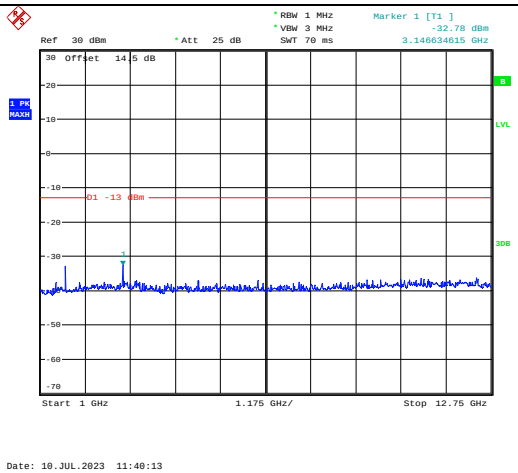
Occupied Bandwidth

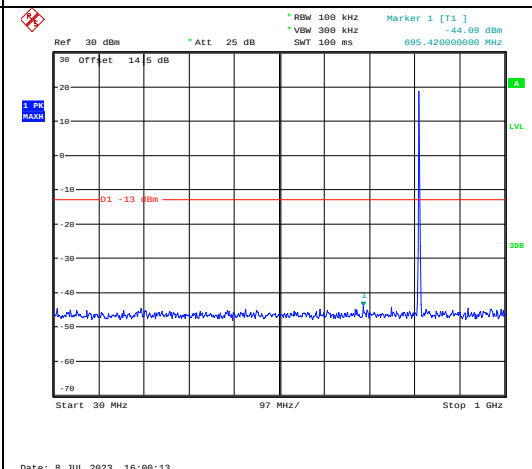
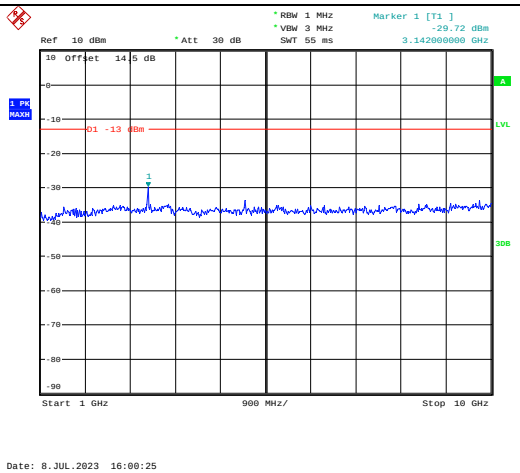
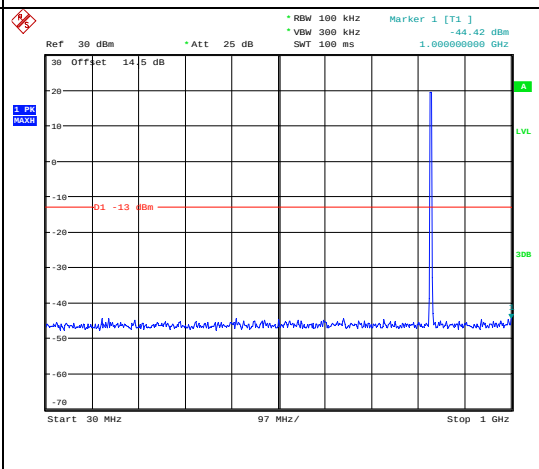
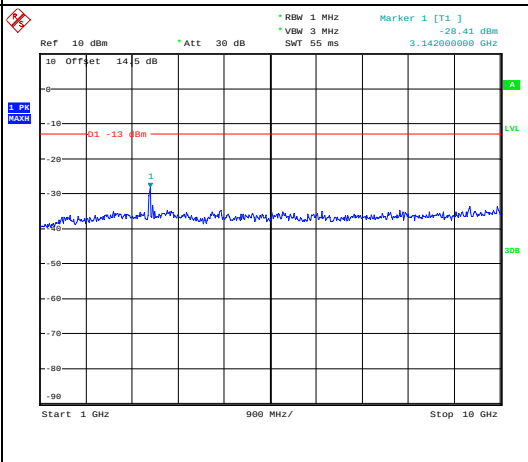
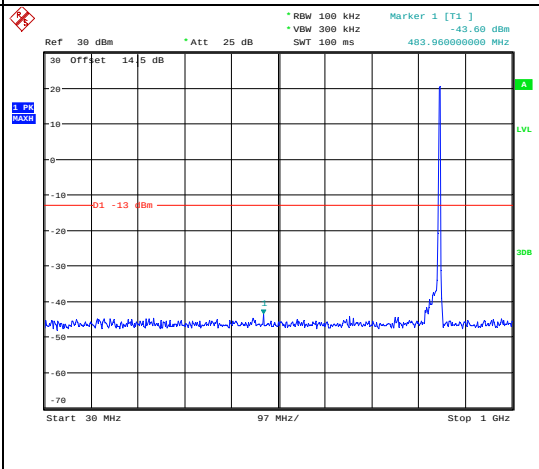
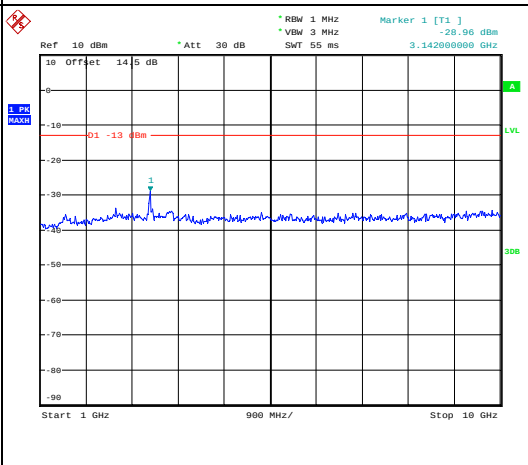
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest For 22H		
Middle For 22H		
Highest For 22H		

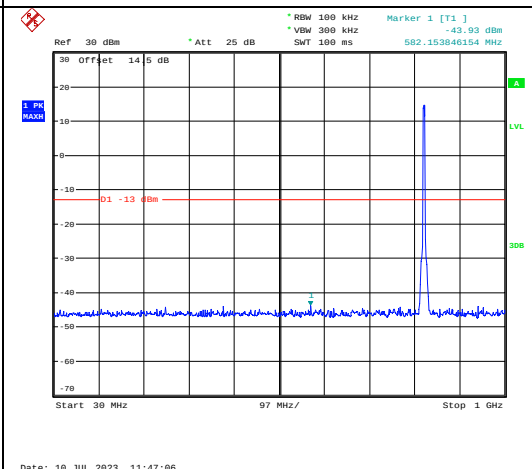
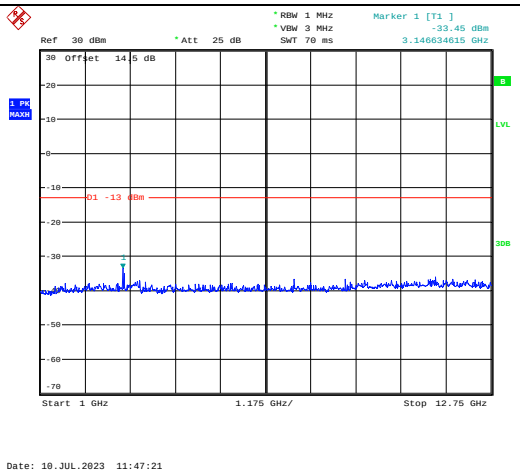
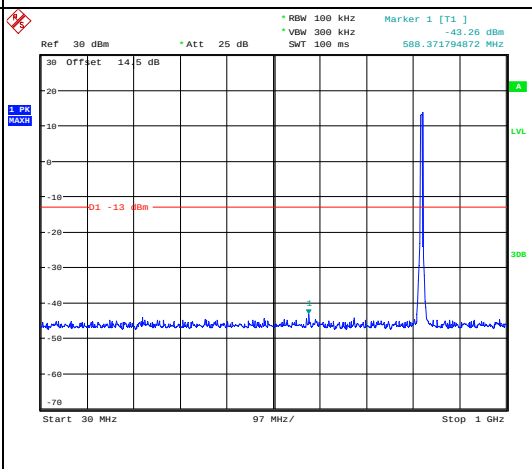
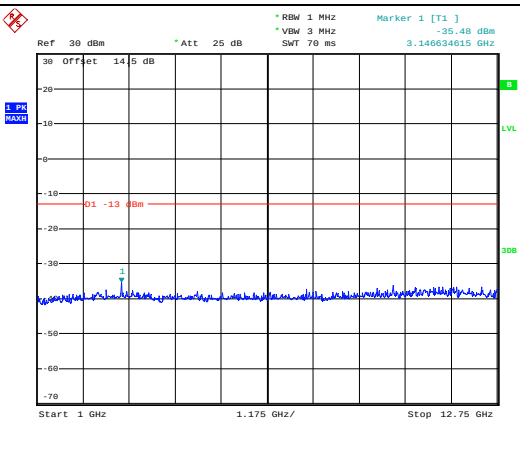
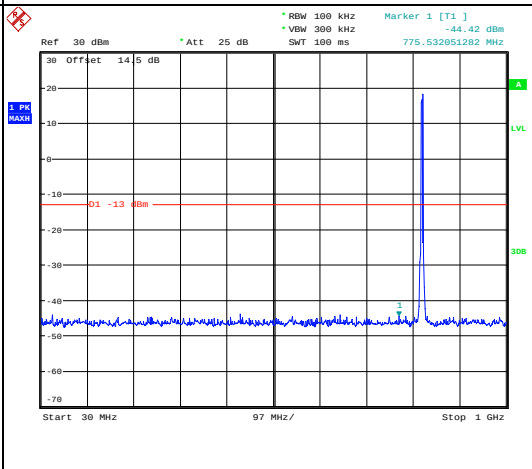
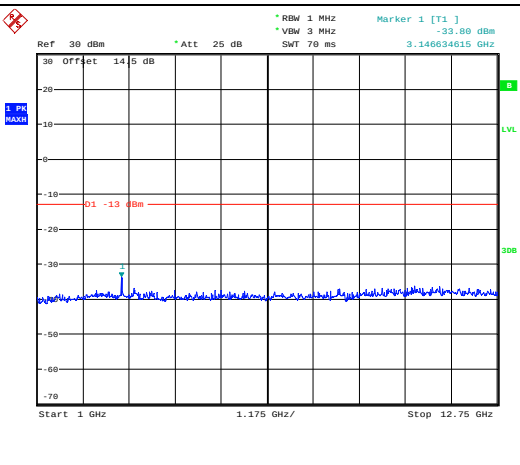
Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Middle For 90S		
Cross Channel		

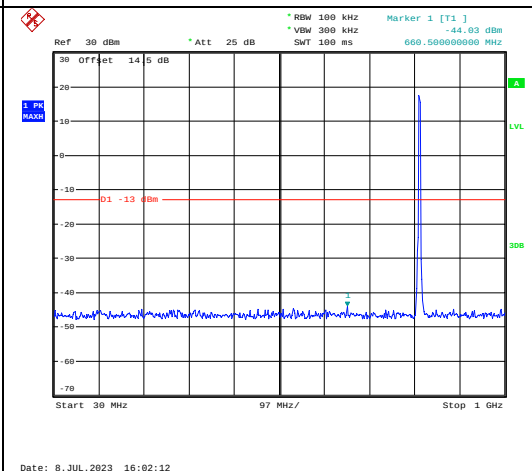
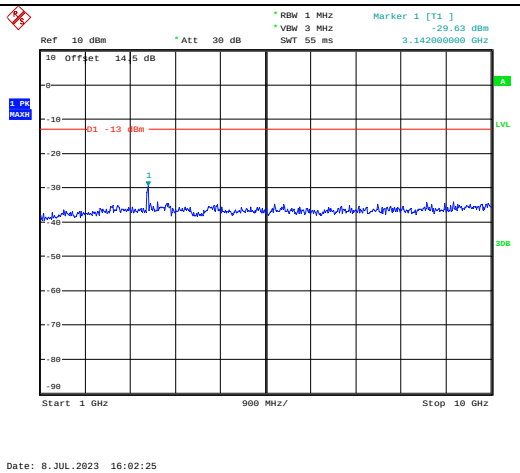
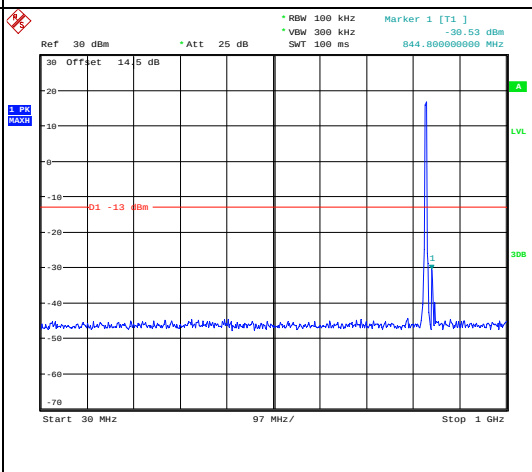
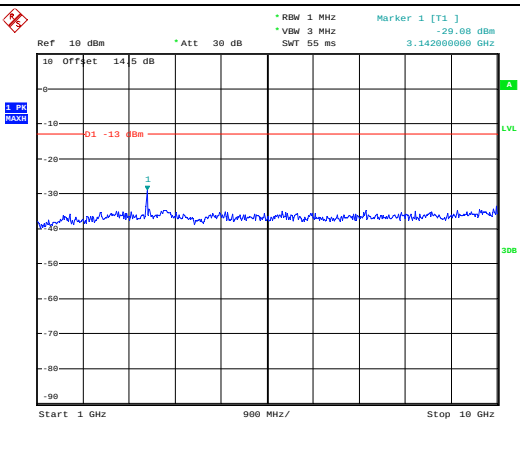
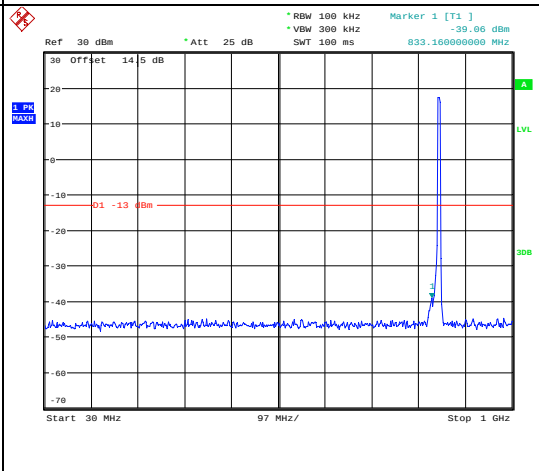
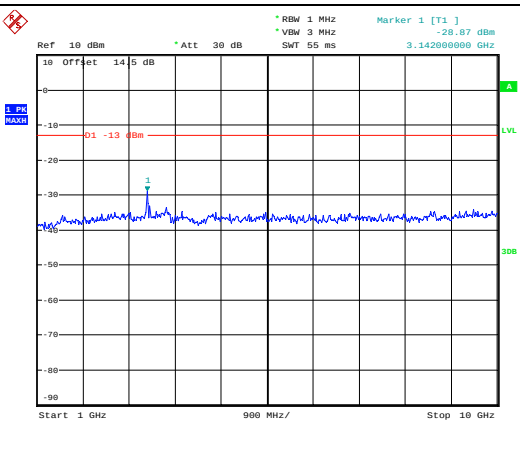
Occupied Bandwidth

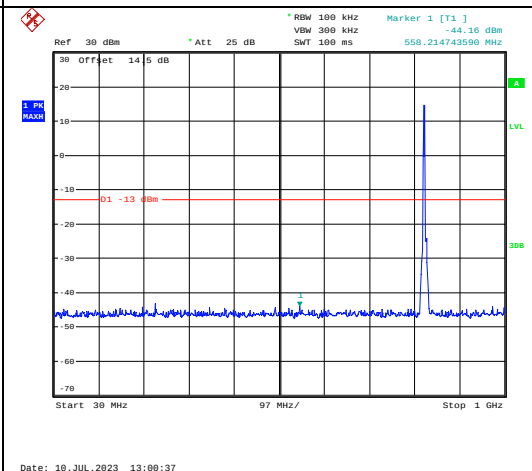
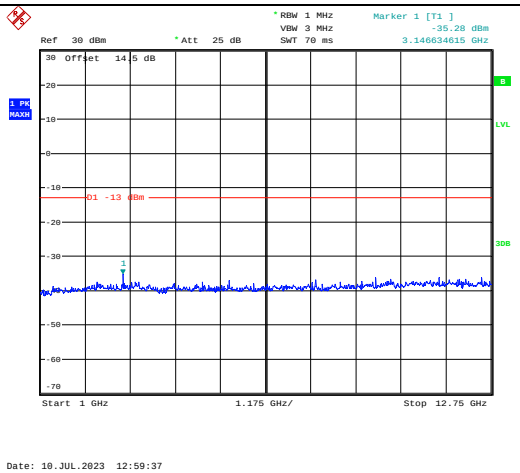
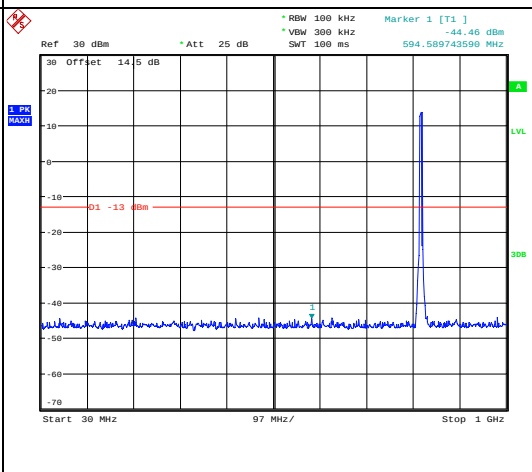
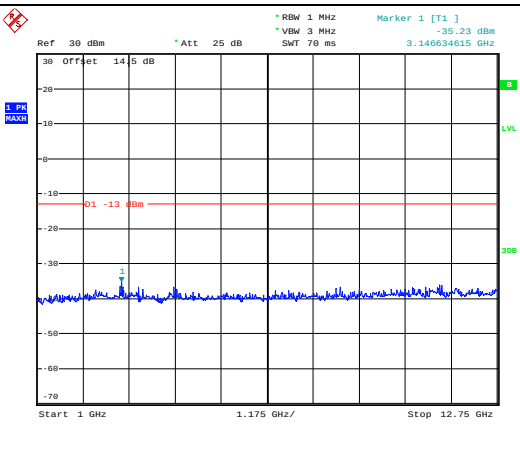
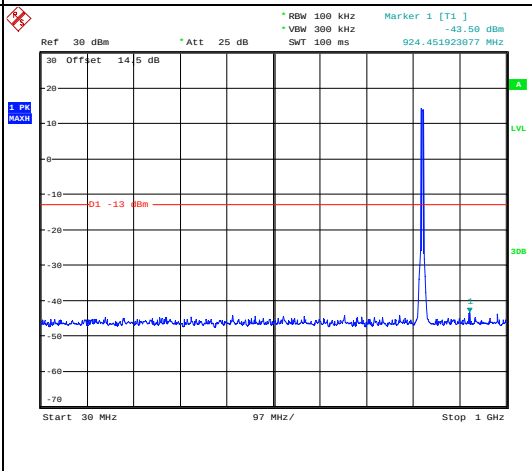
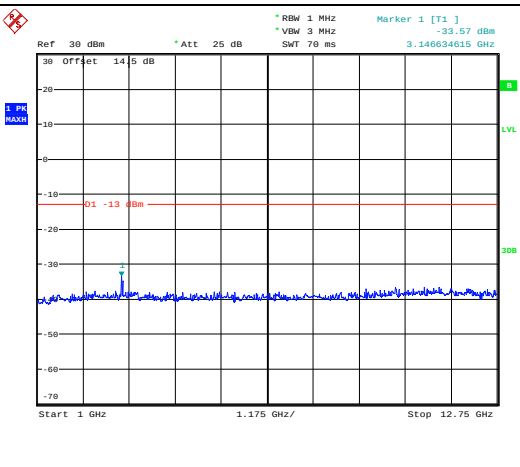
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest For 22H		
Middle For 22H		
Highest For 22H		

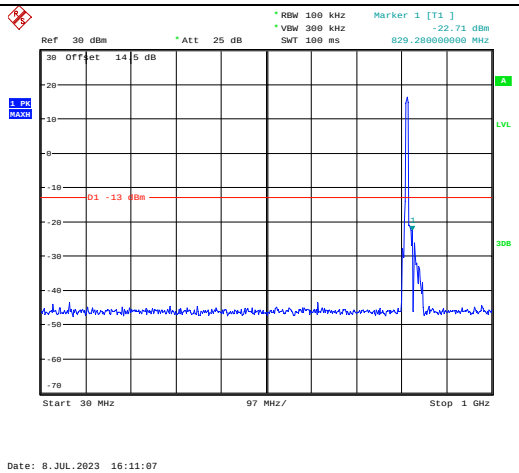
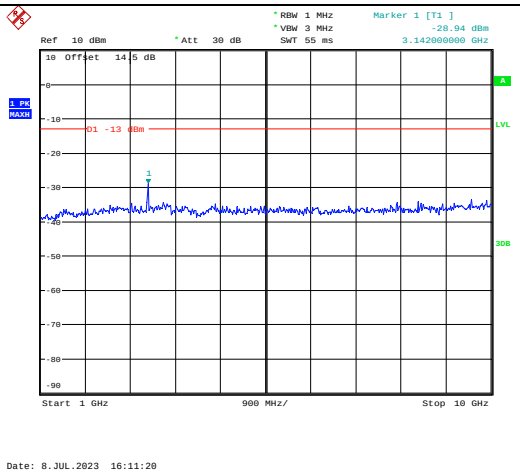
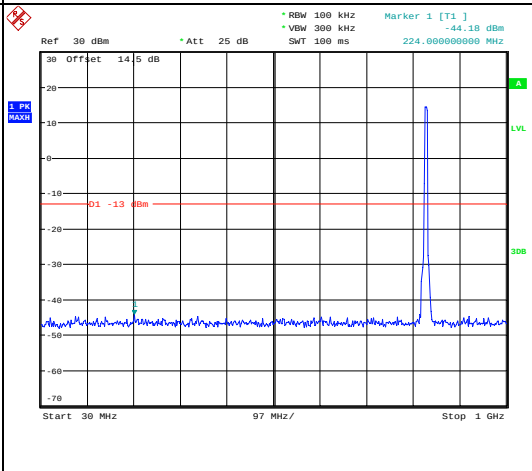
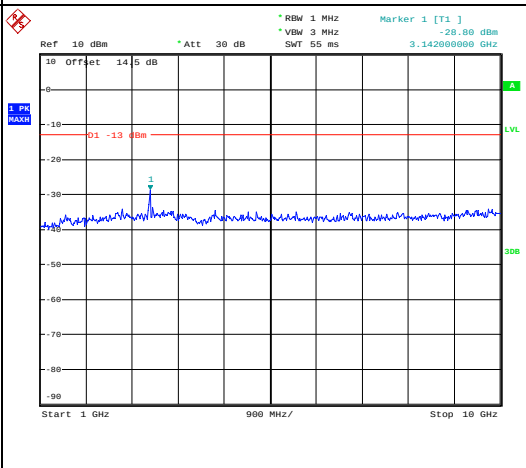
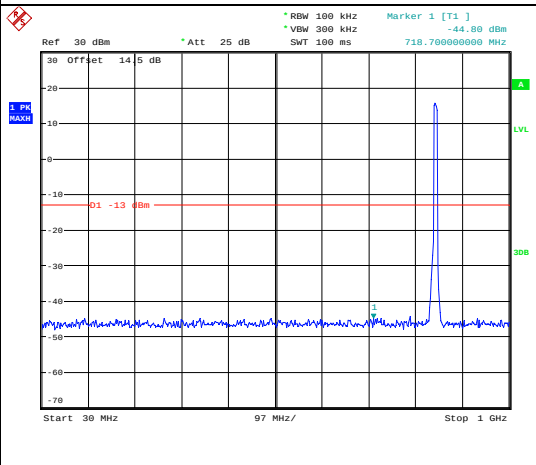
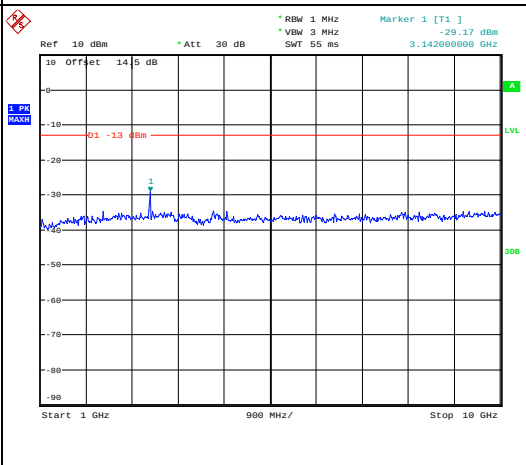
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest For 90S	 Date: 10.JUL.2023 11:36:54	 Date: 10.JUL.2023 11:37:38
Highest For 90S	 Date: 10.JUL.2023 11:39:18	 Date: 10.JUL.2023 11:38:32
Cross Channel	 Date: 10.JUL.2023 11:39:59	 Date: 10.JUL.2023 11:40:13

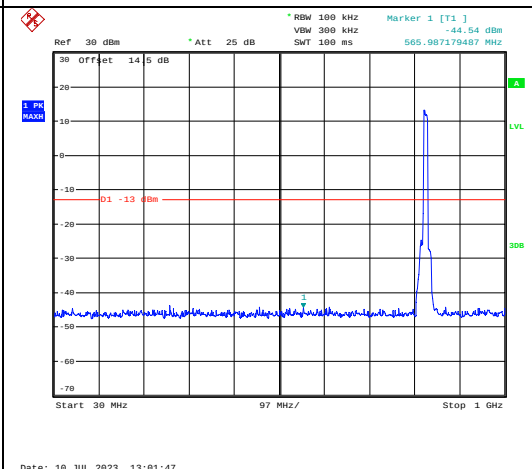
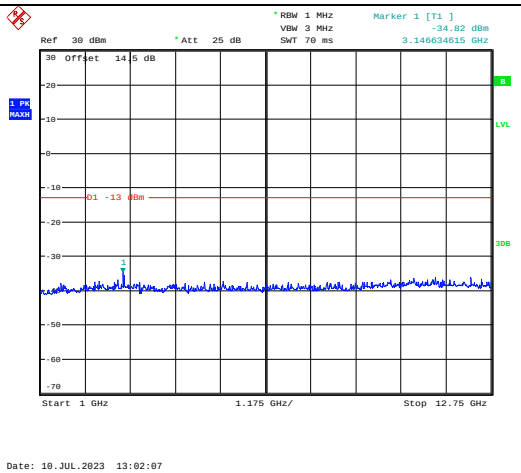
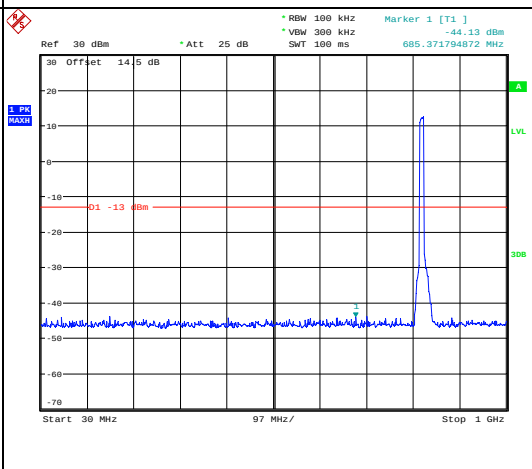
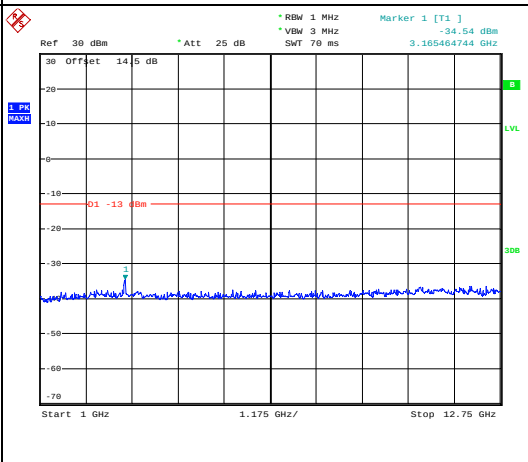
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest For 22H	 Date: 8.JUL.2023 16:00:13	 Date: 8.JUL.2023 16:00:25
Middle For 22H	 Date: 8.JUL.2023 16:00:44	 Date: 8.JUL.2023 16:00:56
Highest For 22H	 Date: 8.JUL.2023 16:01:15	 Date: 8.JUL.2023 16:01:27

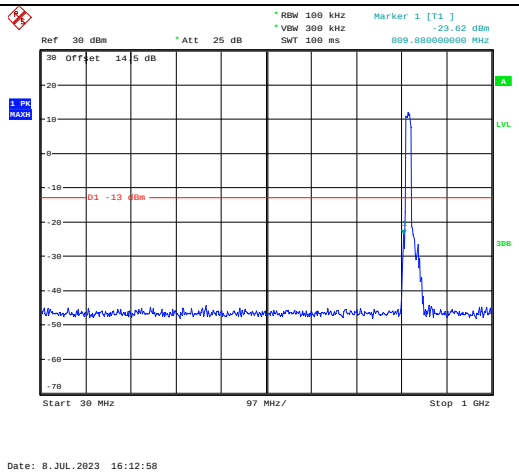
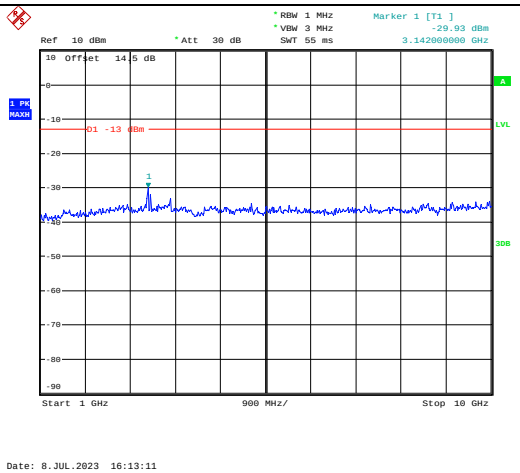
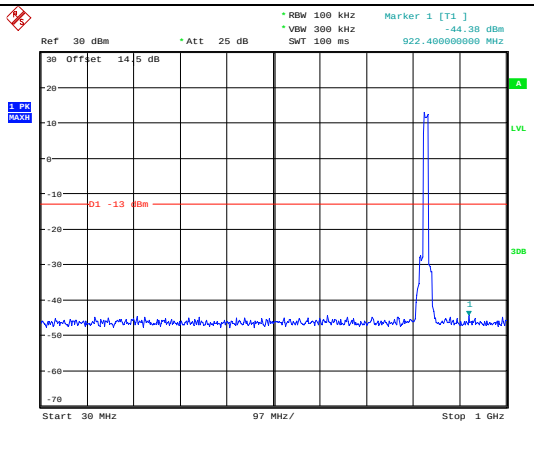
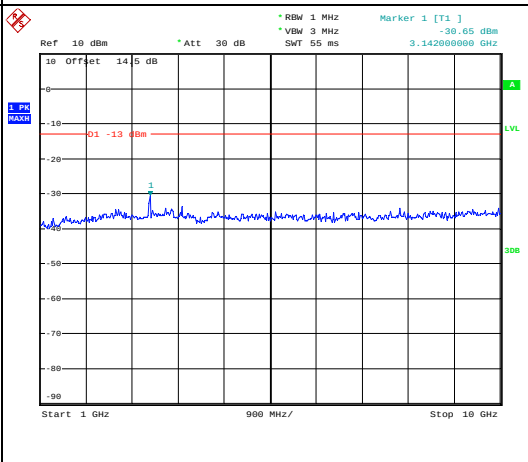
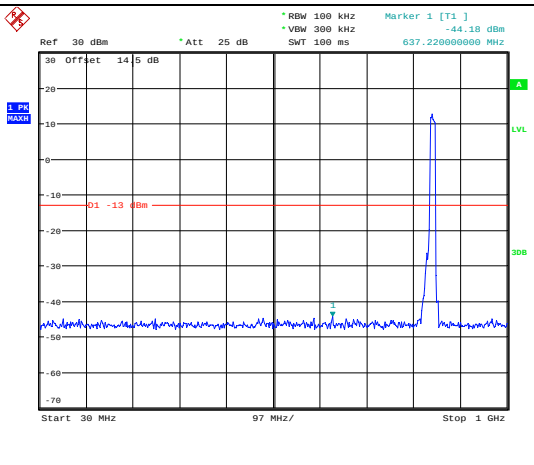
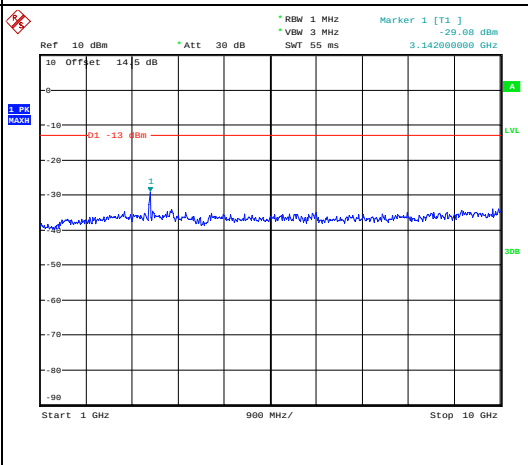
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest For 90S	 Date: 10.JUL.2023 11:47:06	 Date: 10.JUL.2023 11:47:21
Highest For 90S	 Date: 10.JUL.2023 11:48:27	 Date: 10.JUL.2023 11:47:41
Cross Channel	 Date: 10.JUL.2023 11:41:25	 Date: 10.JUL.2023 11:40:50

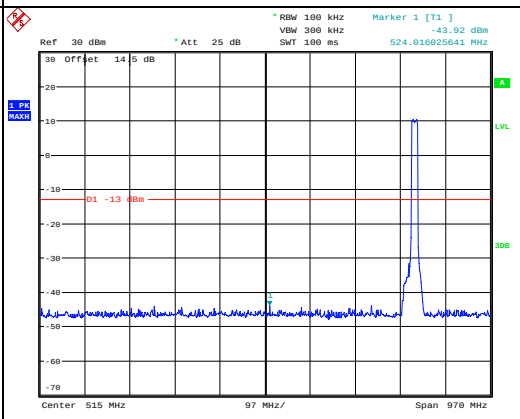
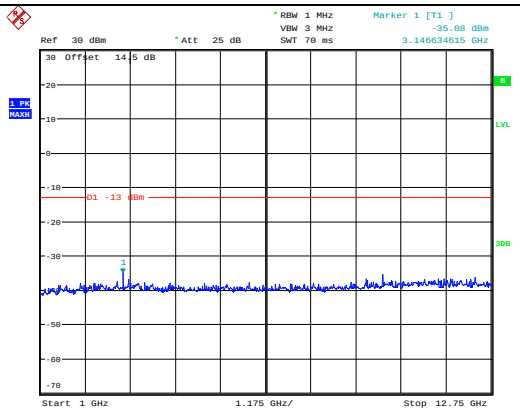
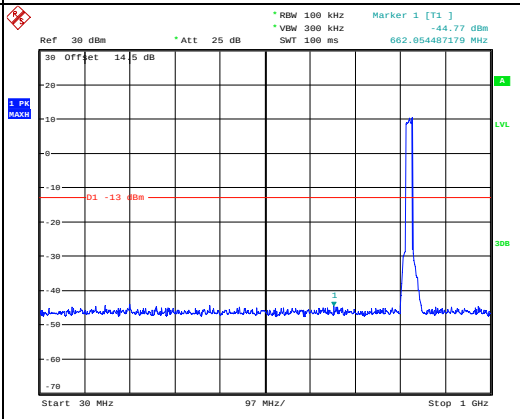
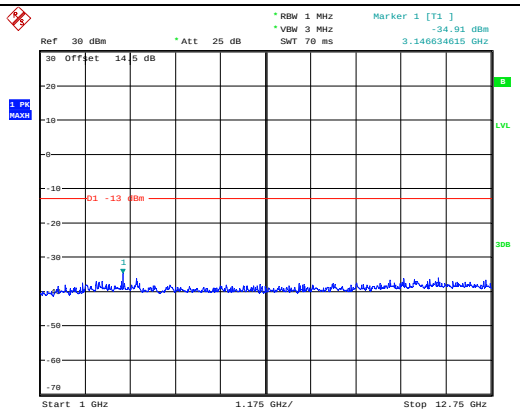
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest For 22H	 Date: 8.JUL.2023 16:02:12	 Date: 8.JUL.2023 16:02:25
Middle For 22H	 Date: 8.JUL.2023 16:02:43	 Date: 8.JUL.2023 16:02:56
Highest For 22H	 Date: 8.JUL.2023 16:09:54	 Date: 8.JUL.2023 16:10:07

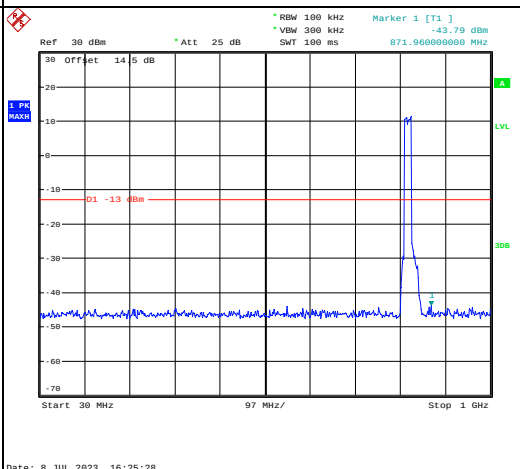
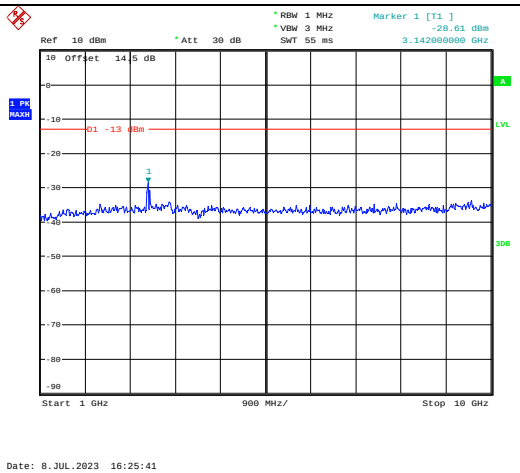
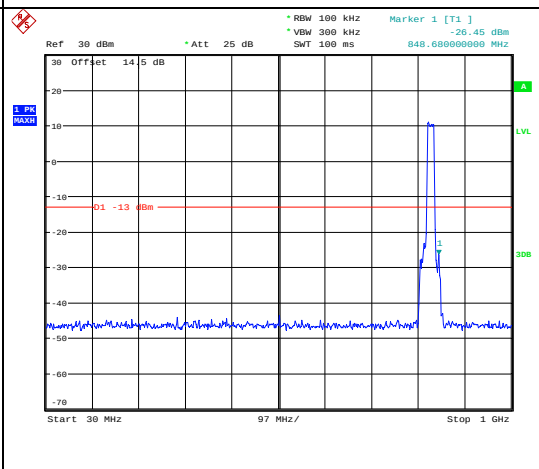
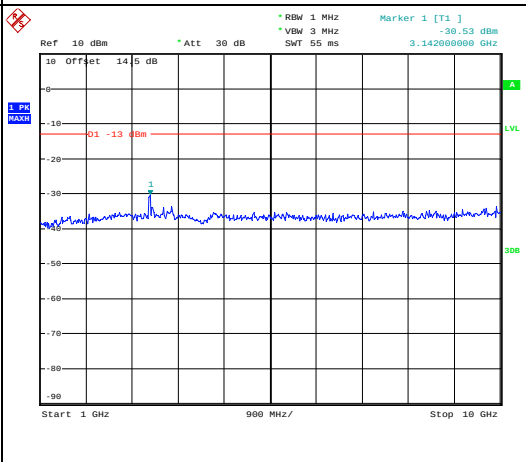
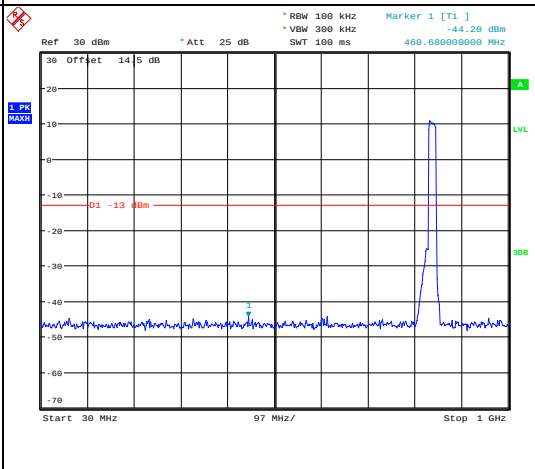
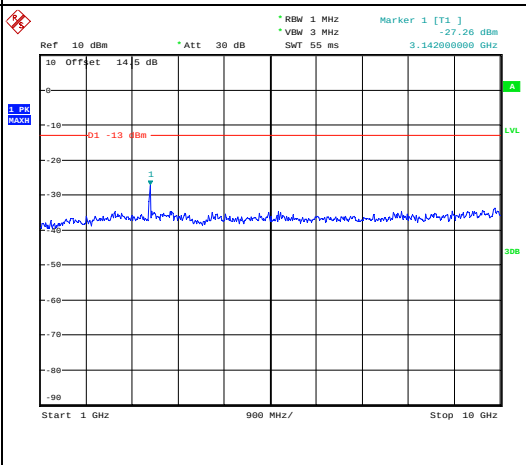
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest For 90S		
Highest For 90S		
Cross Channel		

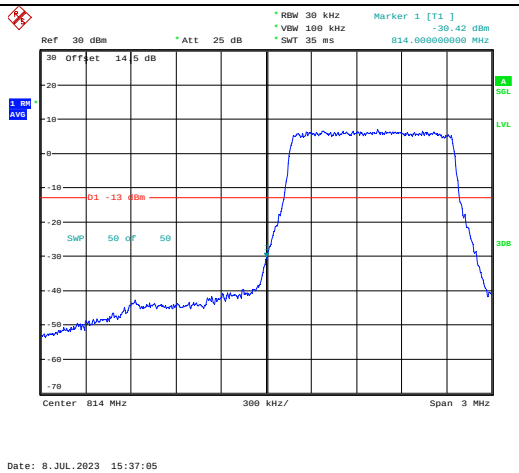
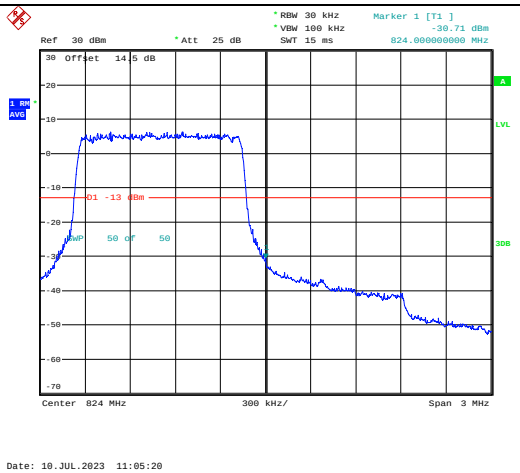
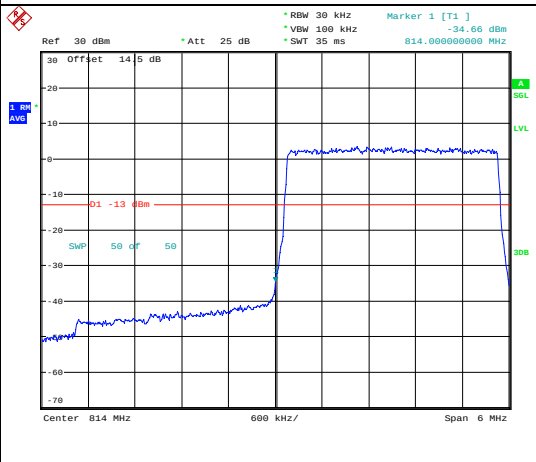
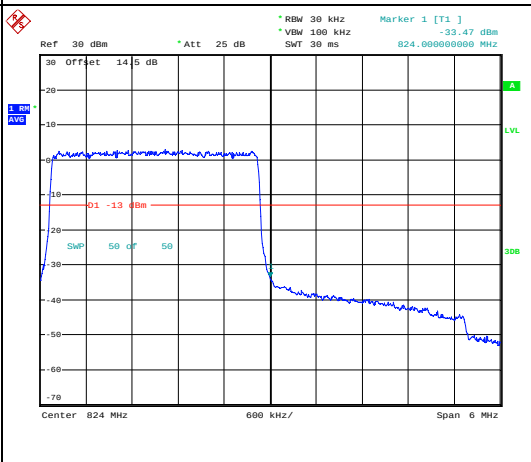
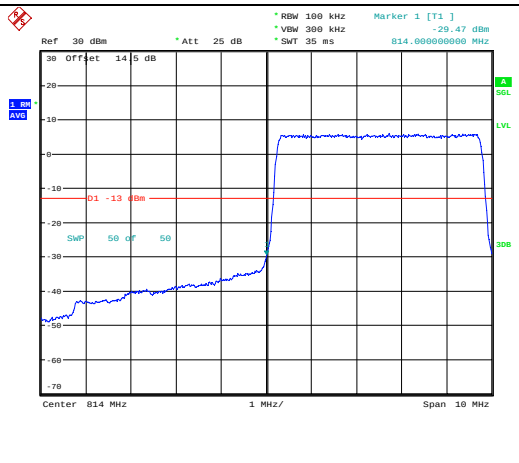
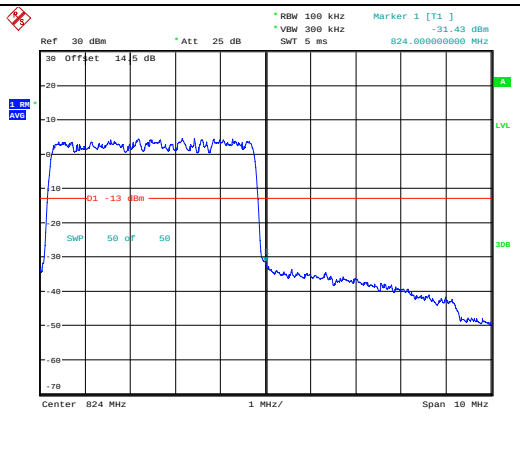
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest For 22H	 Date: 8.JUL.2023 16:11:07	 Date: 8.JUL.2023 16:11:20
Middle For 22H	 Date: 8.JUL.2023 16:11:35	 Date: 8.JUL.2023 16:11:48
Highest For 22H	 Date: 8.JUL.2023 16:12:06	 Date: 8.JUL.2023 16:12:19

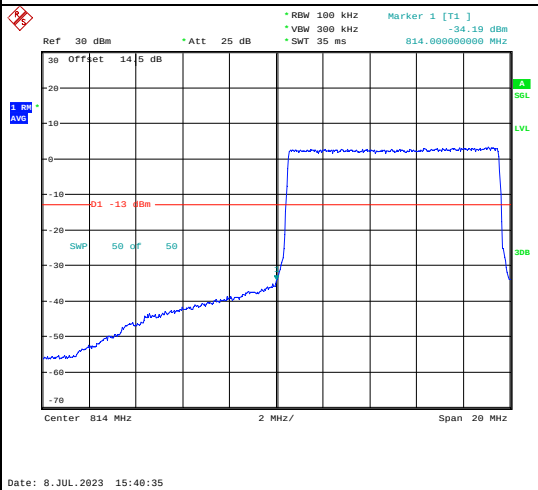
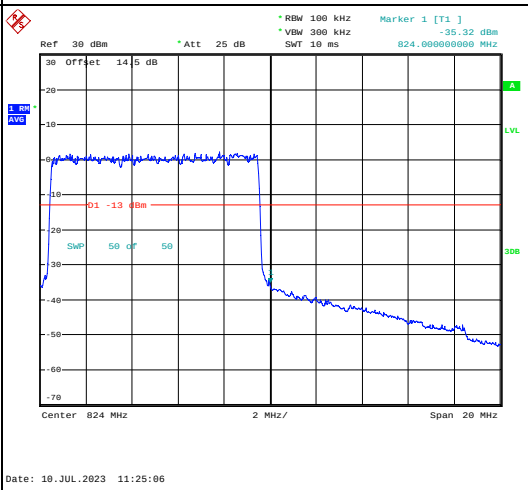
Spurious Emissions at Antenna Terminal	
Channel	**10MHz Bandwidth QPSK**
Lowest For 90S	 
Cross Channel	 

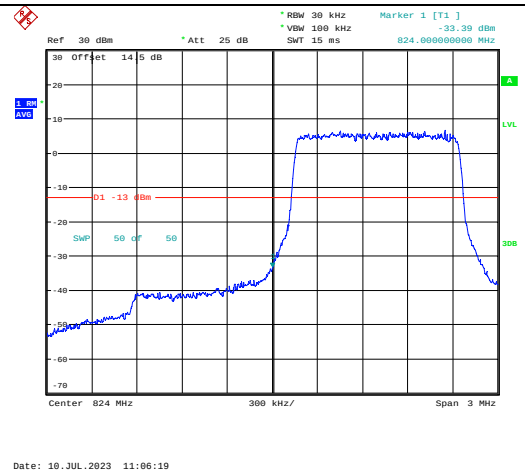
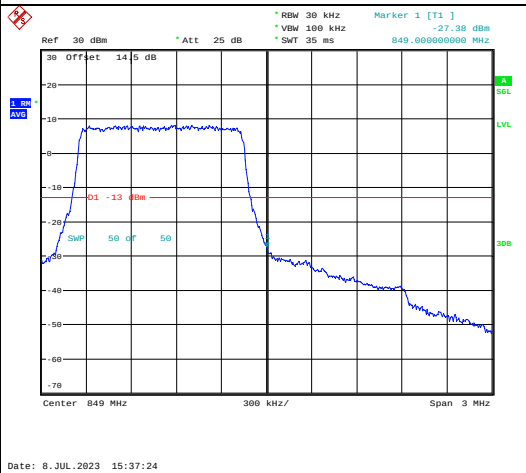
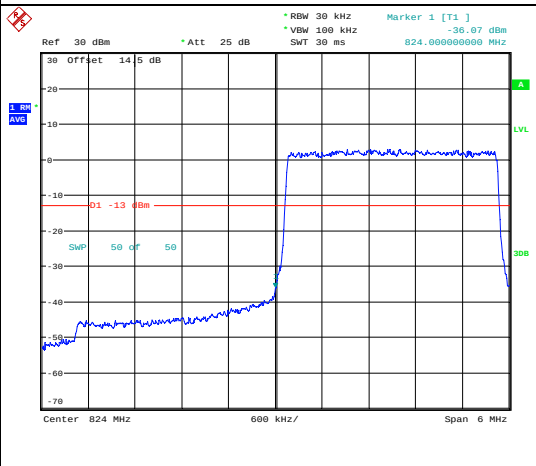
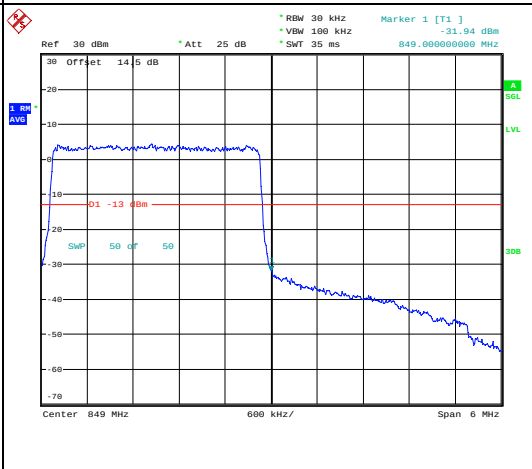
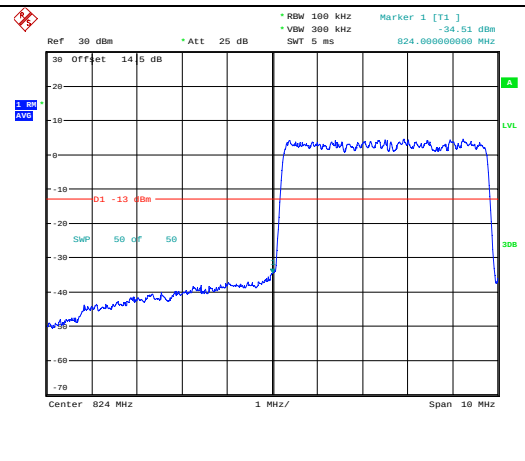
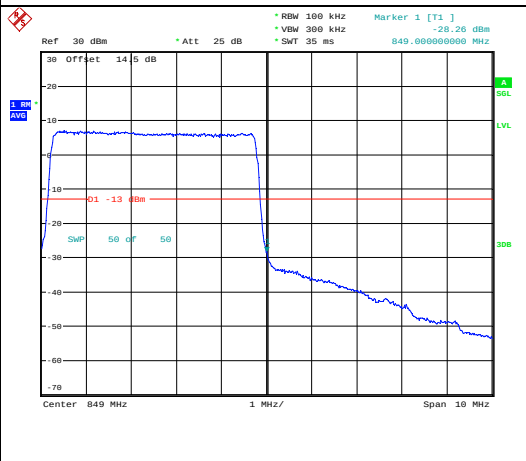
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest For 22H		
Middle For 22H		
Highest For 22H		

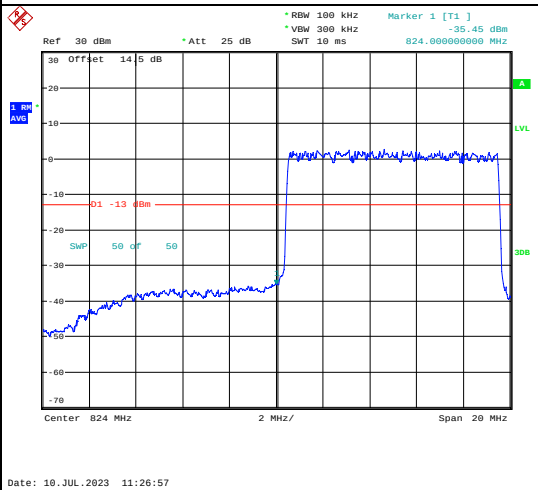
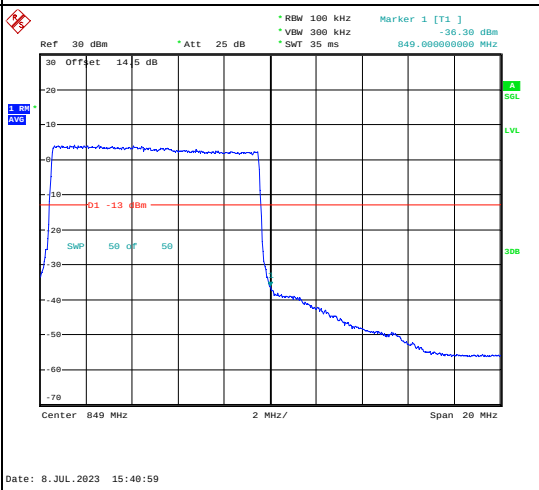
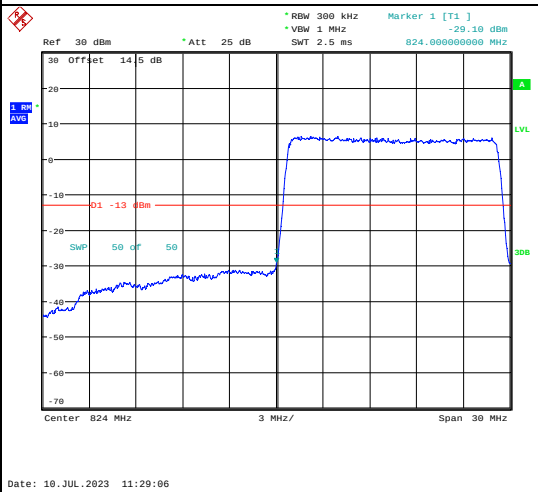
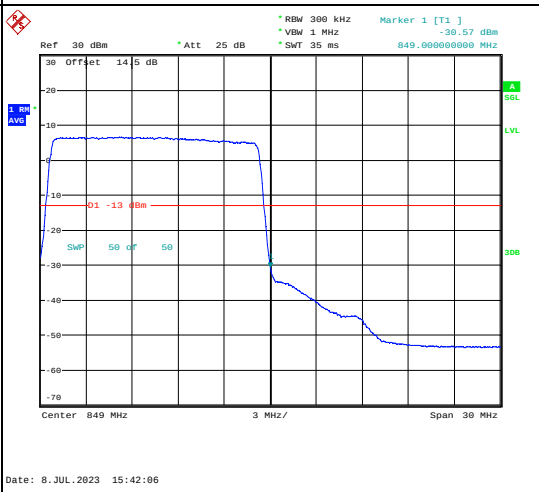
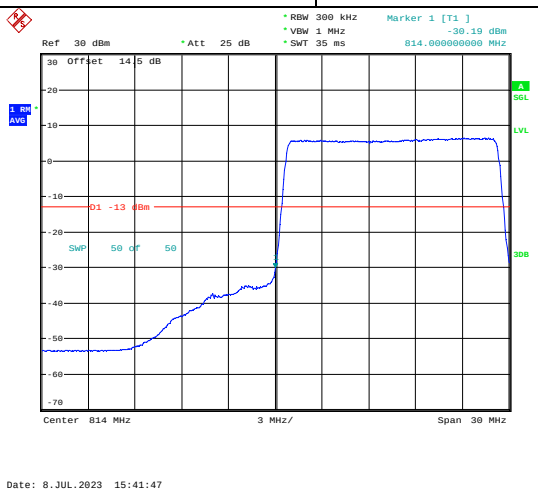
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest For 90S	 Date: 10.JUL.2023 13:03:14	 Date: 10.JUL.2023 13:02:26
Cross Channel	 Date: 10.JUL.2023 11:44:15	 Date: 10.JUL.2023 11:44:26

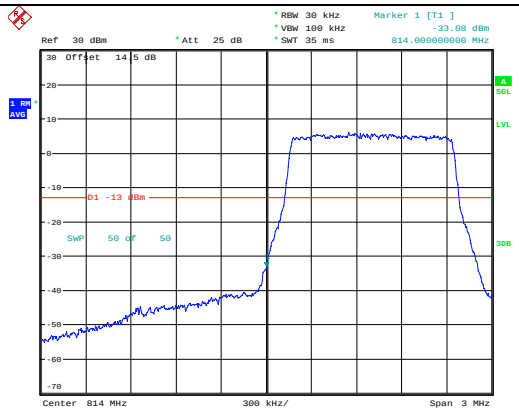
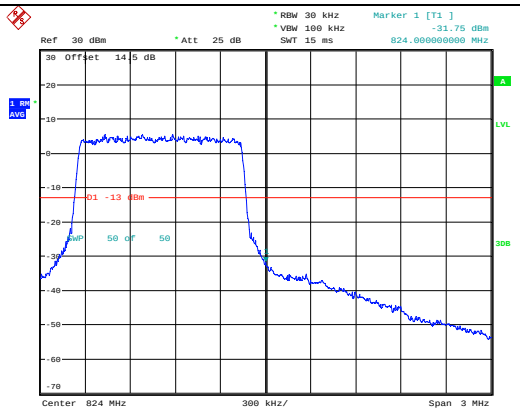
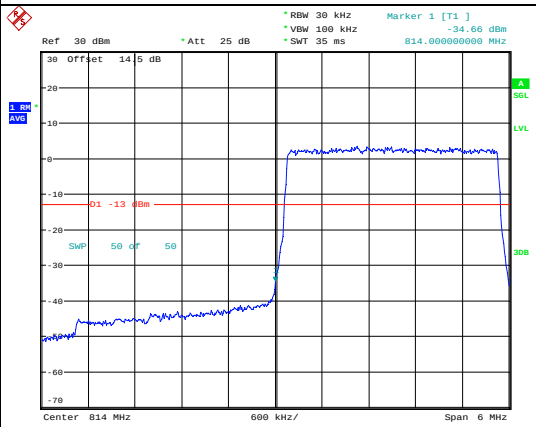
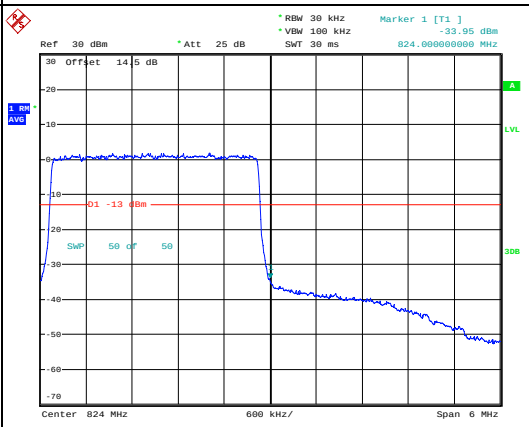
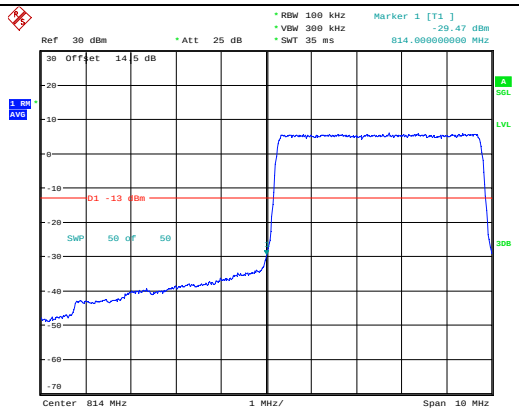
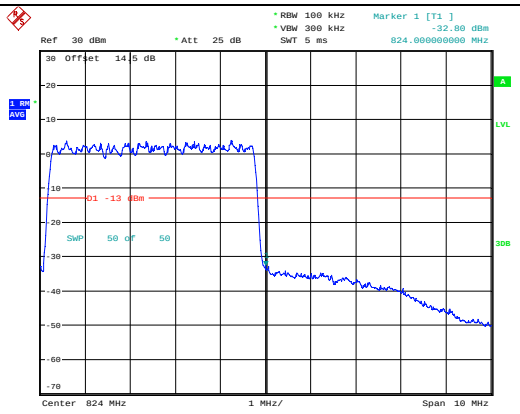
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest For 22H	 Date: 8.JUL.2023 16:25:28	 Date: 8.JUL.2023 16:25:41
Middle For 22H	 Date: 8.JUL.2023 16:25:59	 Date: 8.JUL.2023 16:26:12
Highest For 22H	 Date: 8.JUL.2023 16:26:27	 Date: 8.JUL.2023 16:26:40

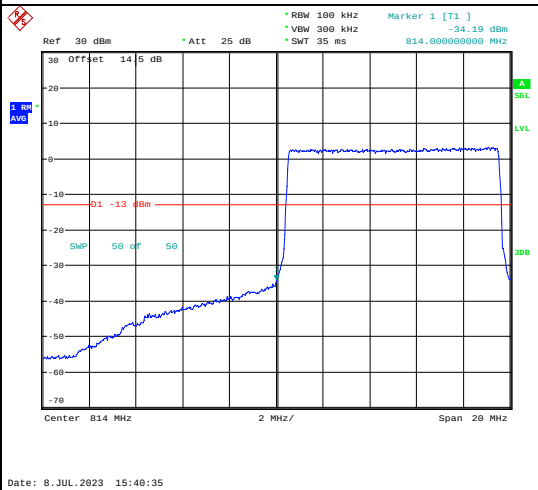
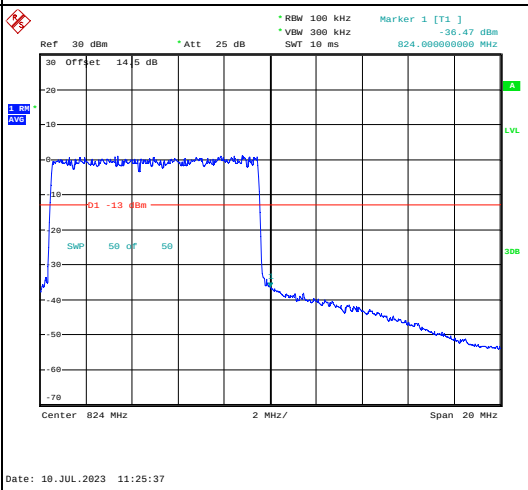
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 1.4MHz For 90S		
QPSK 3MHz For 90S		
QPSK 5MHz For 90S		

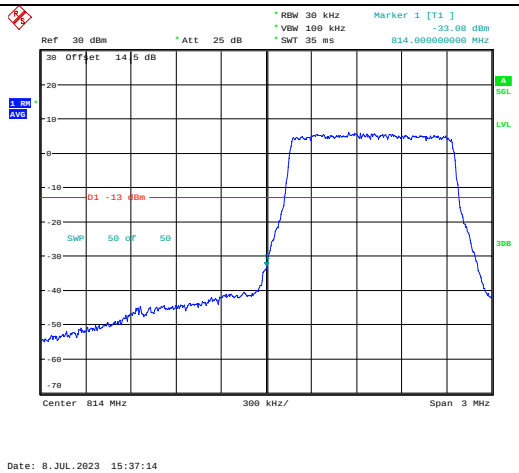
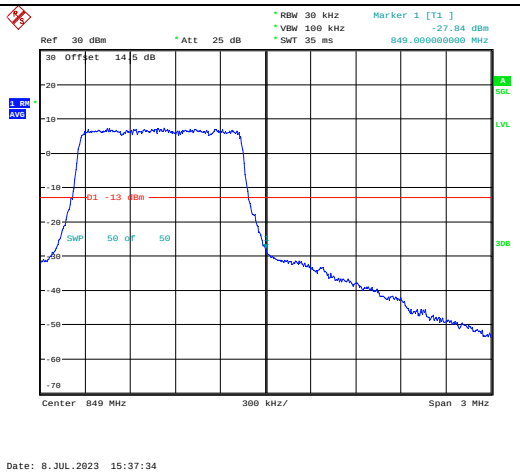
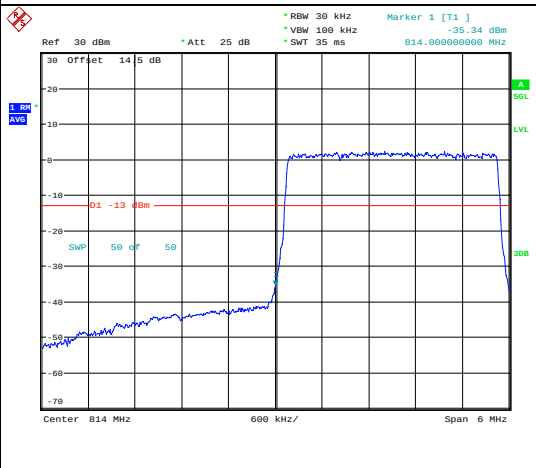
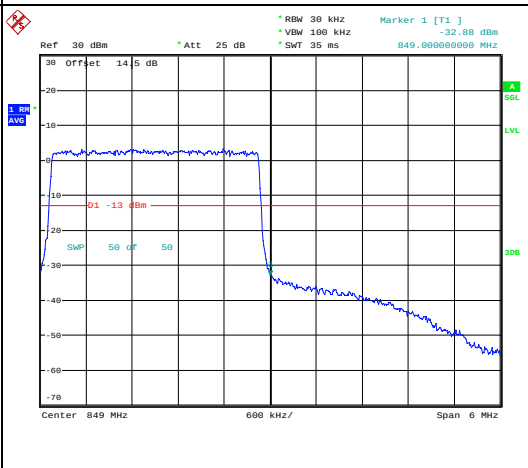
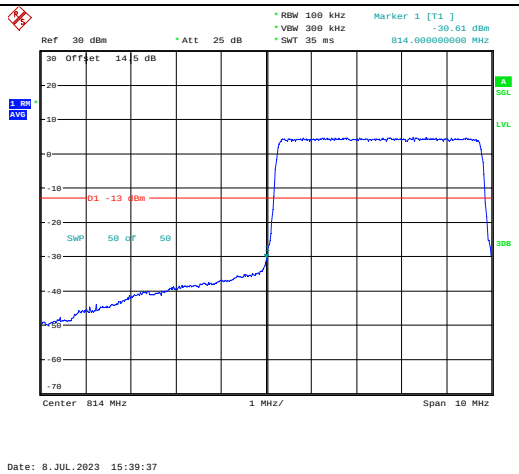
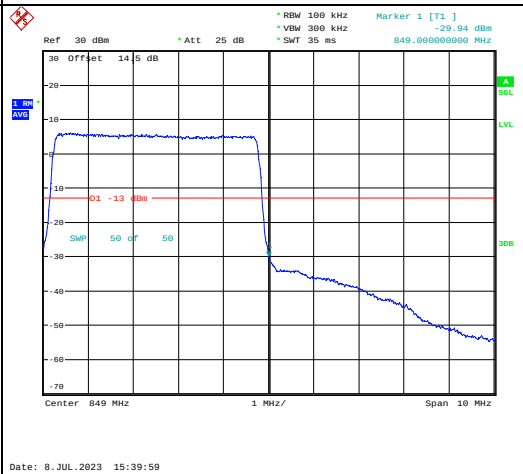
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz For 90S		

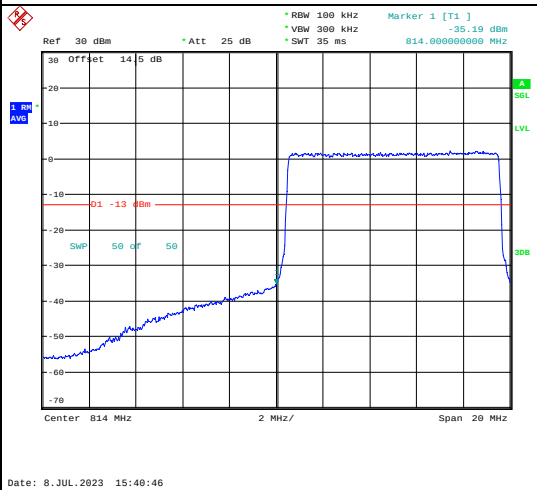
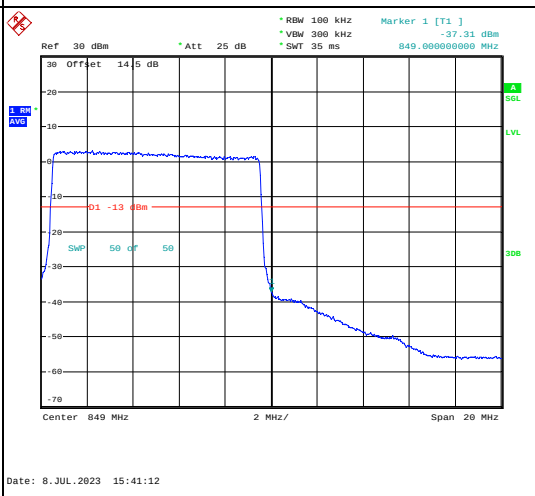
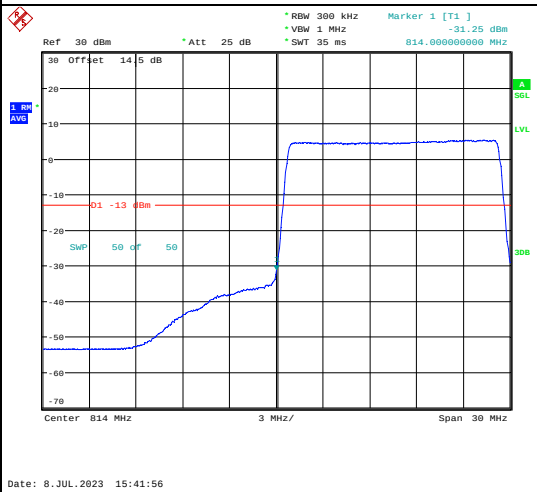
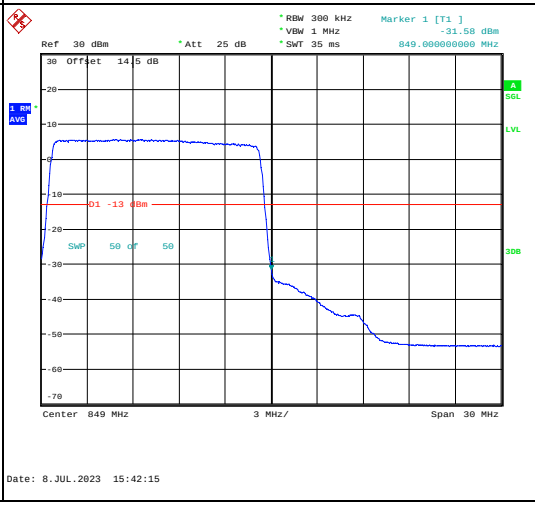
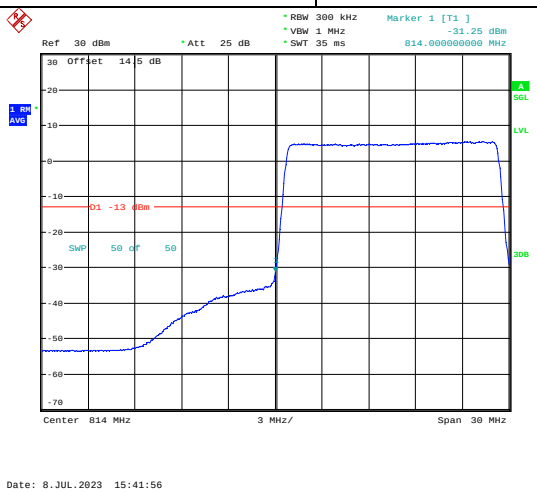
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 1.4MHz For 22H		
QPSK 3MHz For 22H		
QPSK 5MHz For 22H		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz For 22H		
QPSK 15MHz For 22H		
QPSK 15MHz Across 90S and 22H		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 1.4MHz For 90S		
16QAM 3MHz For 90S		
16QAM 5MHz For 90S		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 10MHz For 90S		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 1.4MHz For 22H		
16QAM 3MHz For 22H		
16QAM 5MHz For 22H		

Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
16QAM 10MHz For 22H		
16QAM 15MHz For 22H		
16QAM 15MHz Across 90S and 22H		

4.13 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	26YR-1	Test Date:	2023/6/29
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
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	2498.5	2593	2687.5
10MHz	2501	2593	2685
15MHz	2503.5	2593	2682.5
20MHz	2506	2593	2680

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	16.85	18.49	16.39	18.81	33
	RB1#13	17	18.57	16.45		
	RB1#24	16.98	18.49	16.31		
	RB15#0	16.95	18.61	16.44		
	RB15#10	16.92	18.57	16.38		
	RB25#0	16.94	18.56	16.4		
5MHz 16QAM	RB1#0	17.06	18.49	16.42	18.79	33
	RB1#13	17.22	18.58	16.48		
	RB1#24	17.21	18.48	16.33		
	RB15#0	16.97	18.5	16.44		
	RB15#10	17.01	18.53	16.39		
	RB25#0	16.91	18.59	16.42		
10MHz QPSK	RB1#0	16.95	18.14	17.22	18.61	33
	RB1#25	17.37	18.41	17.35		
	RB1#49	17.16	18.14	16.98		
	RB25#0	16.99	18.19	17.19		
	RB25#25	17.13	18.22	17.06		
	RB50#0	17.04	18.19	17.13		
10MHz 16QAM	RB1#0	17.03	18.32	17.1	18.8	33
	RB1#25	17.44	18.6	17.24		
	RB1#49	17.24	18.29	16.85		
	RB25#0	17.05	18.18	17.22		
	RB25#25	17.17	18.19	17.1		
	RB50#0	17.06	18.17	17.12		
15MHz QPSK	RB1#0	16.92	18.96	16.45	19.28	33
	RB1#38	17.15	18.98	16.36		
	RB1#74	17.24	18.89	16.09		
	RB36#0	17.07	19.07	16.48		
	RB36#39	17.25	19.08	16.32		
	RB75#0	17.15	19.08	16.41		
15MHz 16QAM	RB1#0	17.1	19.09	16.38	19.34	33
	RB1#38	17.33	19.14	16.25		
	RB1#74	17.41	19.07	15.99		
	RB36#0	17.11	19.02	16.42		
	RB36#39	17.27	19.02	16.22		
	RB75#0	17.16	19.02	16.36		
20MHz QPSK	RB1#0	16.82	18.77	17.17	19.42	33
	RB1#50	17.49	19.22	17.33		
	RB1#99	17.26	18.76	16.67		

	RB50#0	17.03	18.96	17.26		
	RB50#50	17.29	18.98	16.99		
	RB100#0	17.17	18.97	17.12		
20MHz 16QAM	RB1#0	17.04	18.82	17.16	19.45	33
	RB1#50	17.67	19.25	17.33		
	RB1#99	17.49	18.82	16.66		
	RB50#0	17.04	18.95	17.33		
	RB50#50	17.3	18.97	17.03		
	RB100#0	17.17	18.99	17.13		
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	11.54	6.58	7.45	13
	RB100#0	10.56	9.74	7.38	13
20MHz 16QAM	RB1#0	8.98	10.54	6.59	13
	RB100#0	7.95	11.21	10.12	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	4.52	4.52	4.52	4.92	5.16	4.98
5MHz 16QAM	4.52	4.52	4.52	5.38	5.02	5.14
10MHz QPSK	8.96	8.96	8.96	9.52	9.92	9.64
10MHz 16QAM	8.96	8.96	8.96	9.64	9.68	9.48
15MHz QPSK	13.50	13.62	13.50	14.94	15.06	14.76
15MHz 16QAM	13.56	13.56	13.62	16.14	16.68	16.14
20MHz QPSK	18.00	18.00	17.92	19.52	19.36	19.68
20MHz 16QAM	18.00	17.92	17.92	19.52	21.68	19.28
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.**

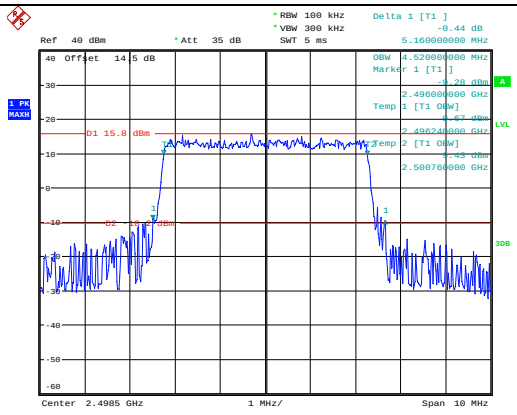
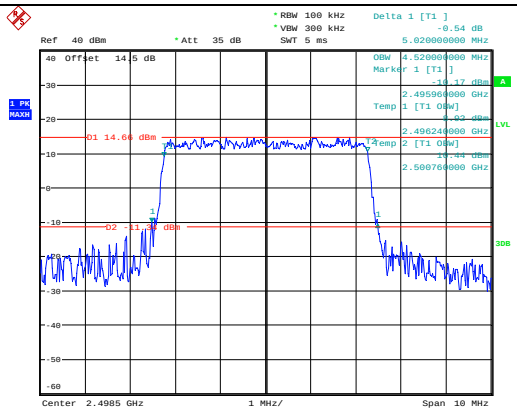
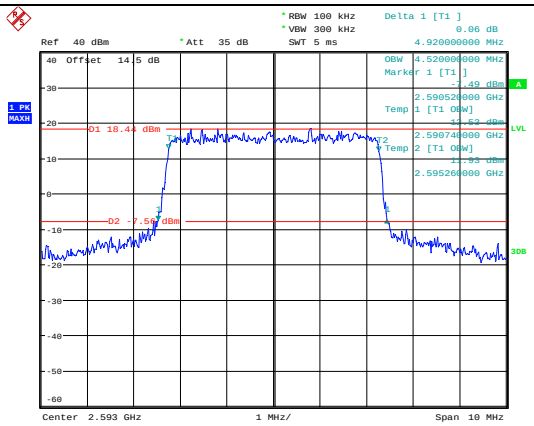
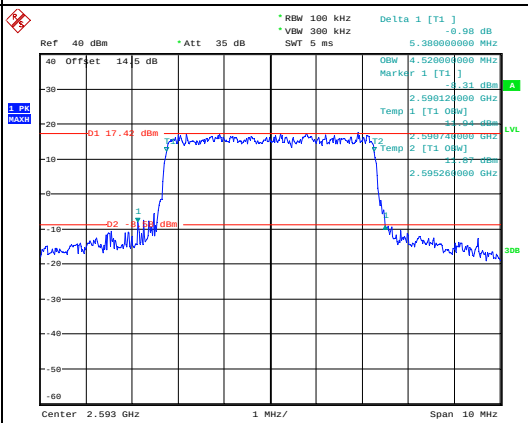
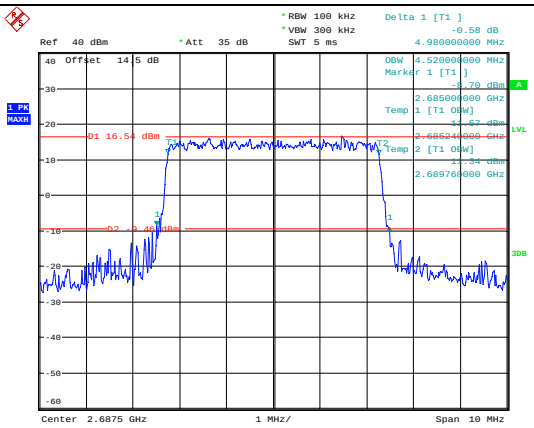
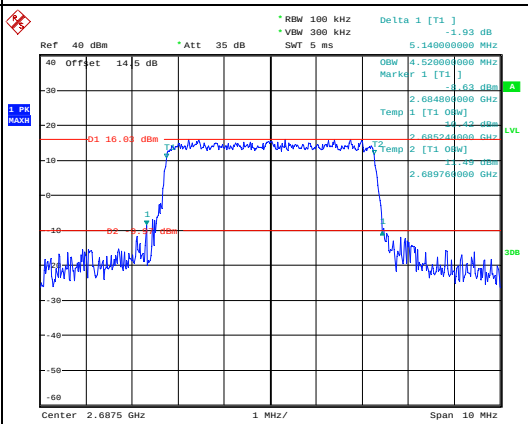
FCC §2.1051, § 27.53:Out of band emission, Band Edge	
Result:	**Pass, Please refer to the test plots of Out of band emission, Band Edge.**

FCC §2.1055, §27.54: Frequency Stability

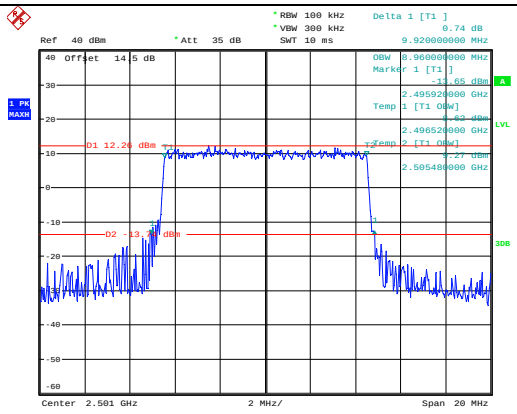
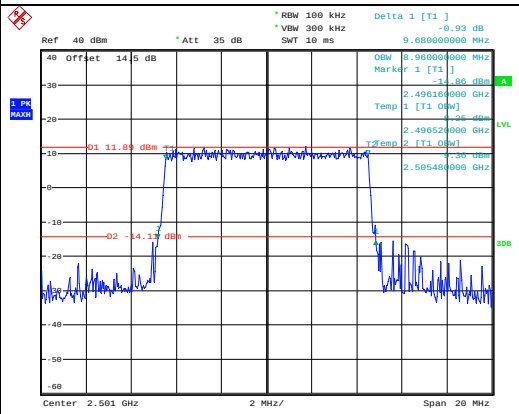
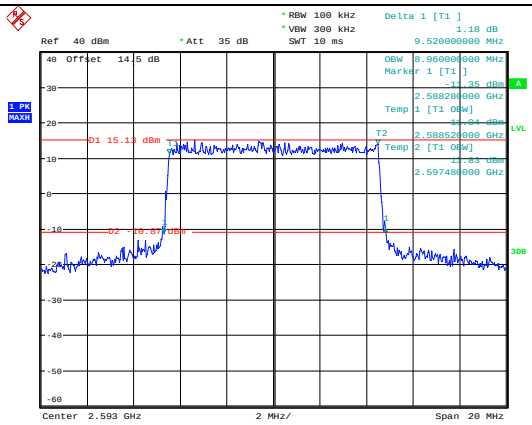
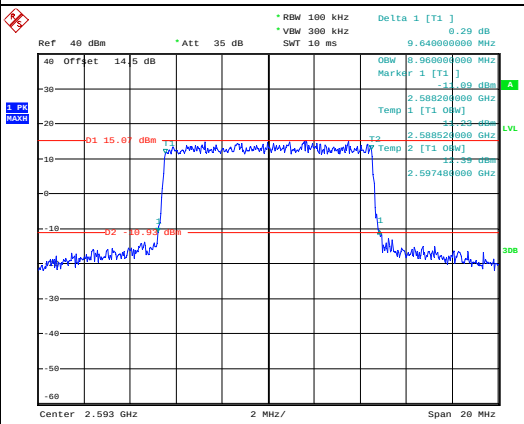
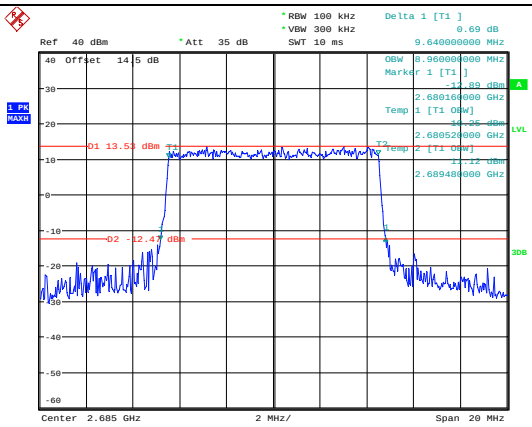
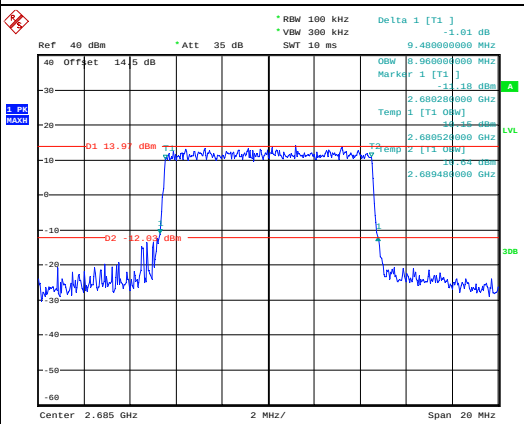
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2497.029	2496.00	2688.960	2690
	-20	3.8	2497.034	2496.00	2688.981	2690
	-10	3.8	2497.022	2496.00	2688.986	2690
	0	3.8	2497.019	2496.00	2688.977	2690
	10	3.8	2497.040	2496.00	2688.975	2690
	20	3.8	2497.040	2496.00	2688.960	2690
	30	3.8	2497.017	2496.00	2688.961	2690
	40	3.8	2497.031	2496.00	2688.985	2690
	50	3.8	2497.040	2496.00	2688.970	2690
Frequency Stability vs. Voltage	20	3.65	2497.036	2496.00	2688.972	2690
	20	4.35	2497.013	2496.00	2688.970	2690
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2497.941	2496.00	2688.979	2690
	-20	3.8	2497.941	2496.00	2688.964	2690
	-10	3.8	2497.951	2496.00	2688.983	2690
	0	3.8	2497.937	2496.00	2688.965	2690
	10	3.8	2497.937	2496.00	2688.981	2690
	20	3.8	2497.040	2496.00	2688.960	2690
	30	3.8	2497.955	2496.00	2688.976	2690
	40	3.8	2497.956	2496.00	2688.975	2690
	50	3.8	2497.941	2496.00	2688.975	2690
Frequency Stability vs. Voltage	20	3.65	2497.939	2496.00	2688.972	2690
	20	4.35	2497.938	2496.00	2688.964	2690
					Result:	**Pass**

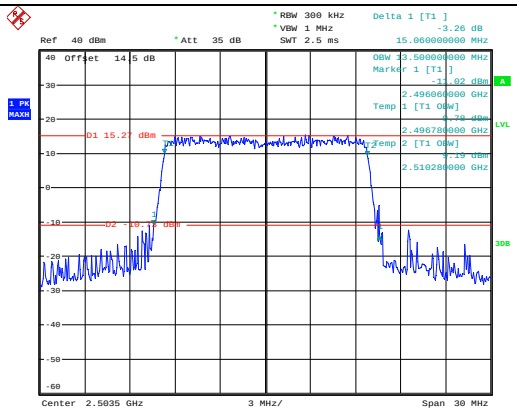
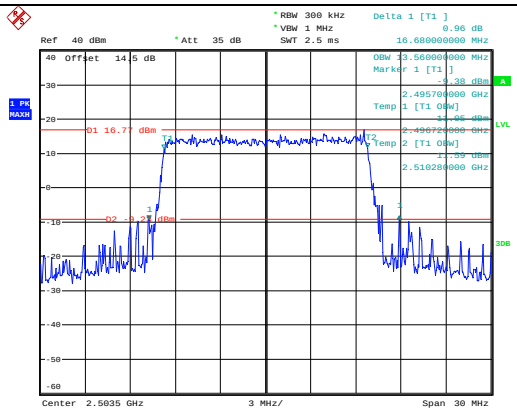
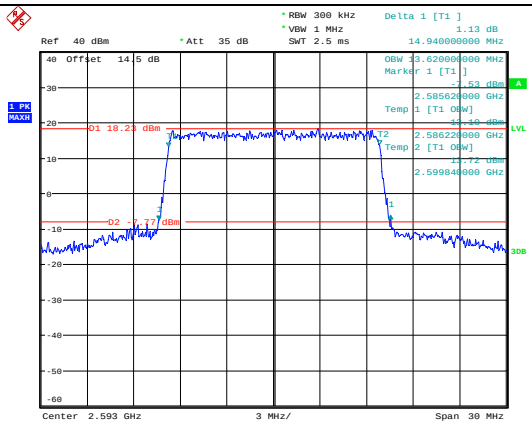
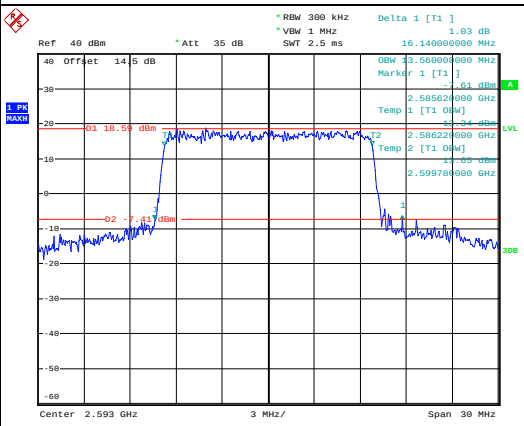
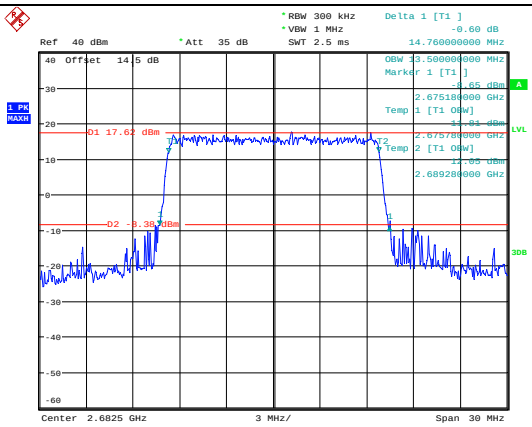
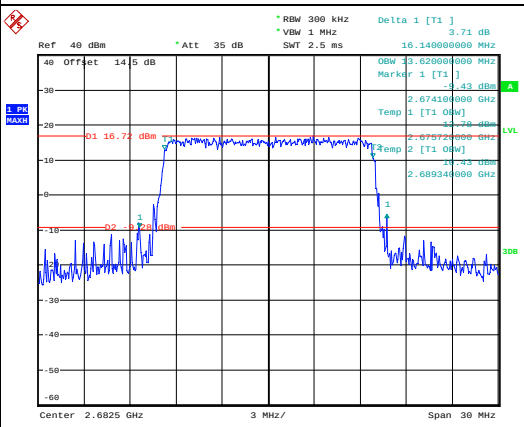
Test Plots (Note: The 14.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

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

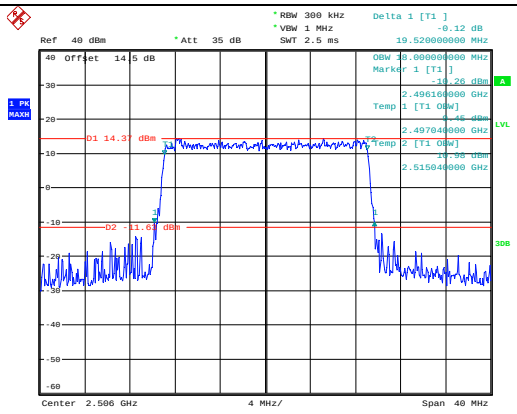
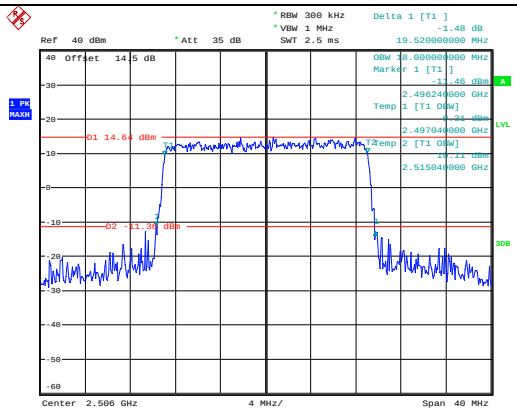
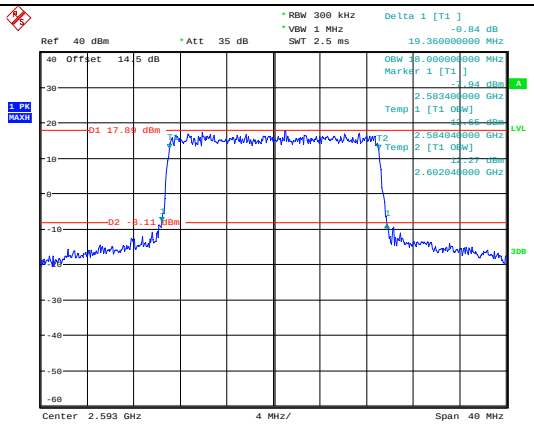
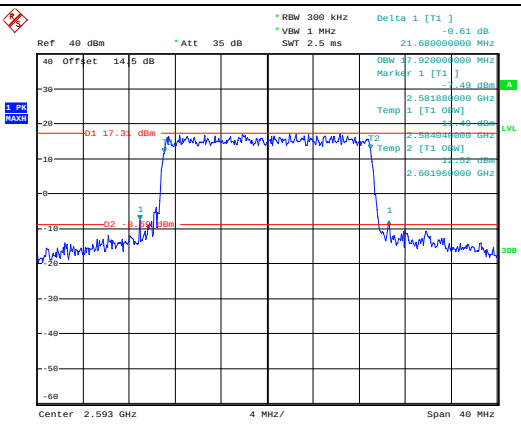
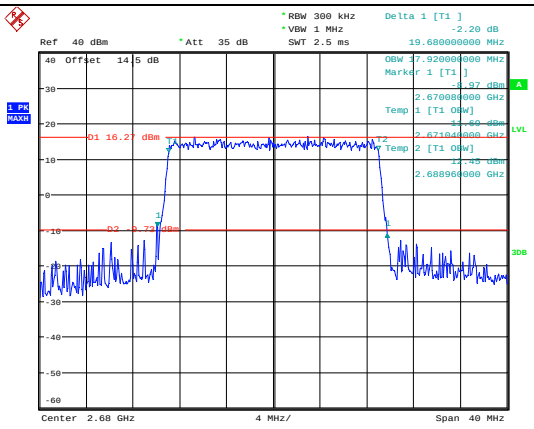
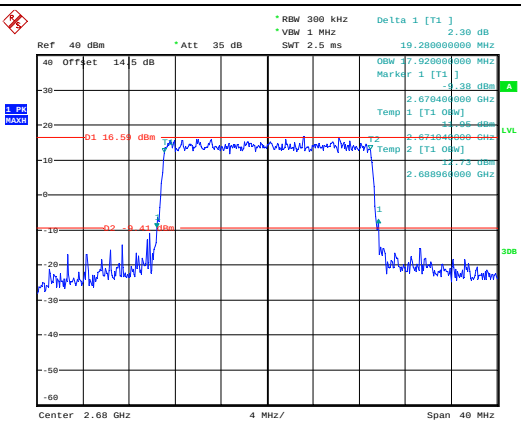
Occupied Bandwidth

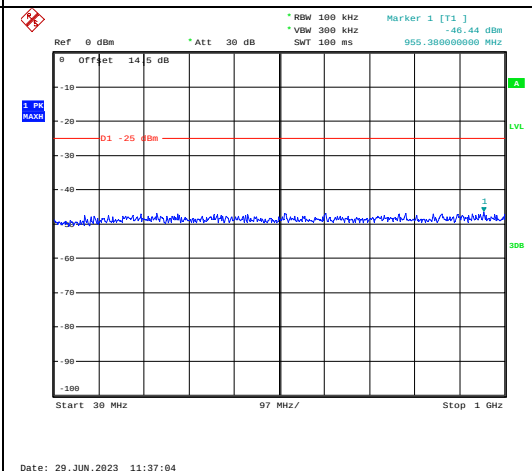
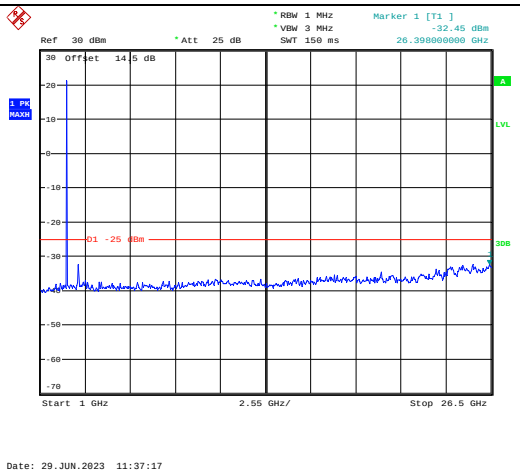
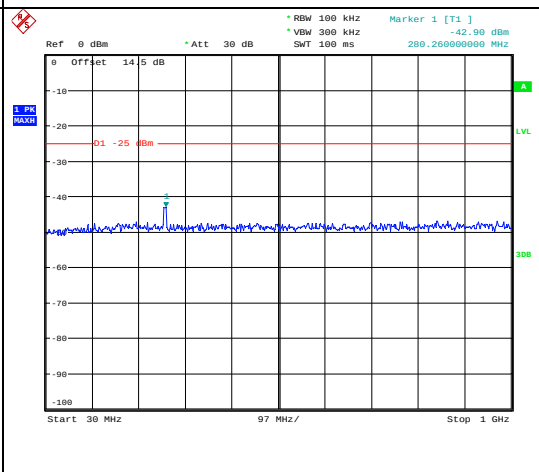
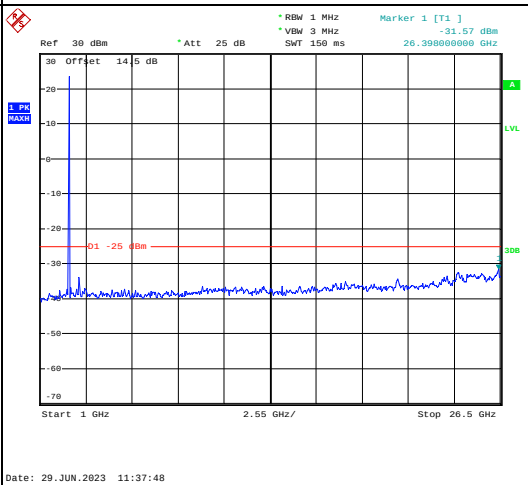
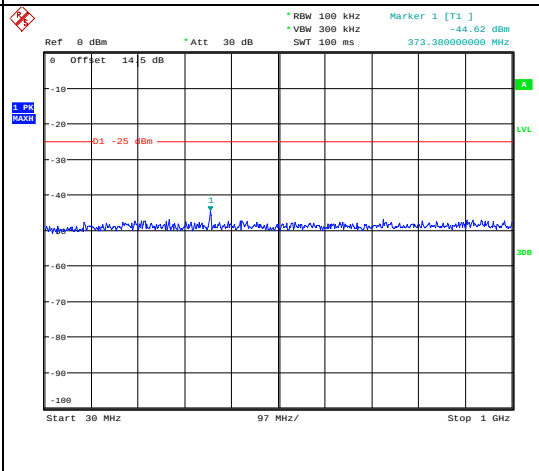
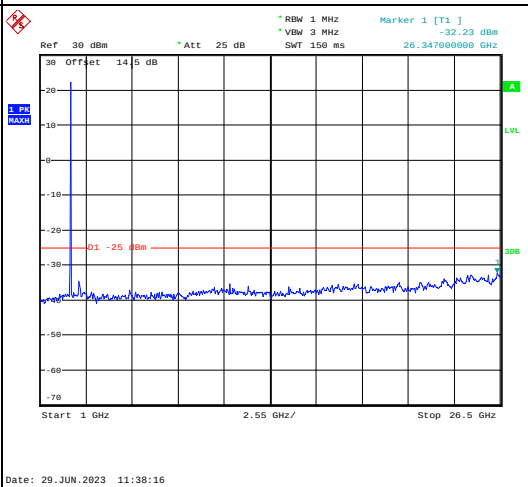
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Date: 29.JUN.2023 10:13:53	 Date: 29.JUN.2023 10:14:14
Middle	 Date: 29.JUN.2023 10:14:36	 Date: 29.JUN.2023 10:15:03
Highest	 Date: 29.JUN.2023 10:15:32	 Date: 29.JUN.2023 10:15:56

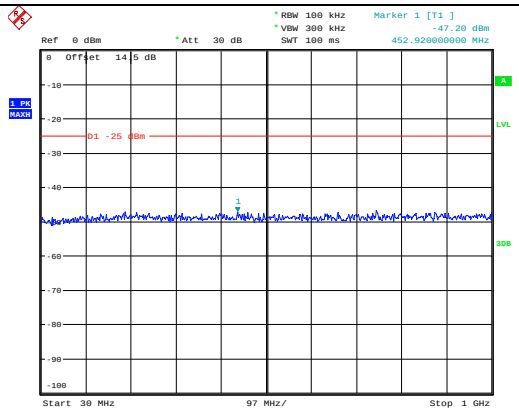
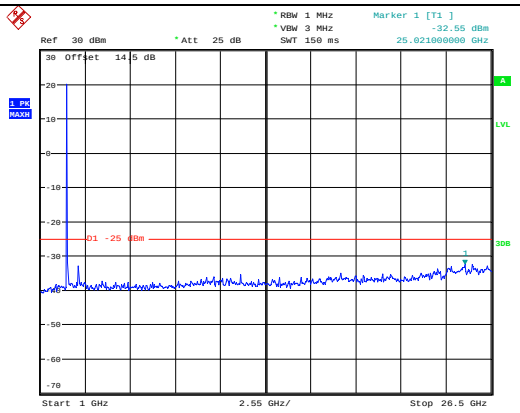
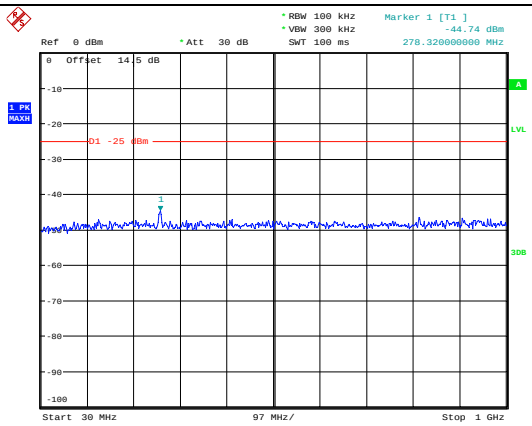
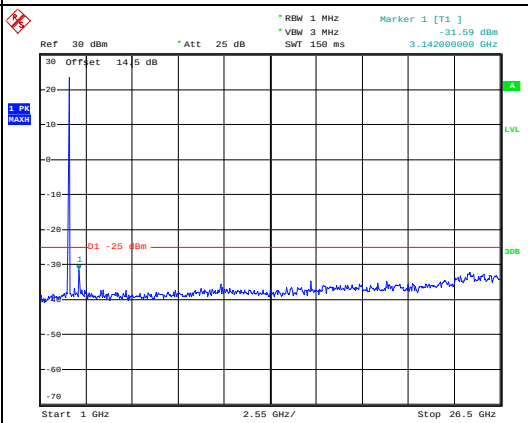
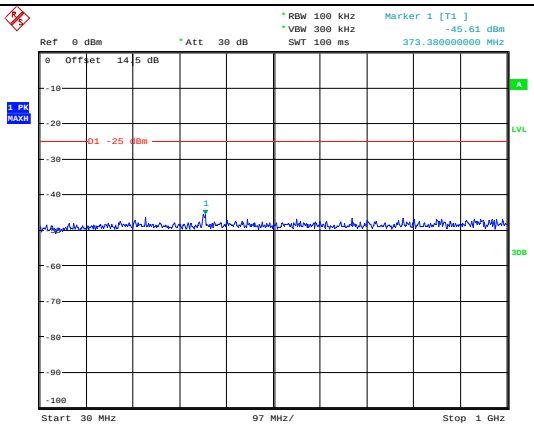
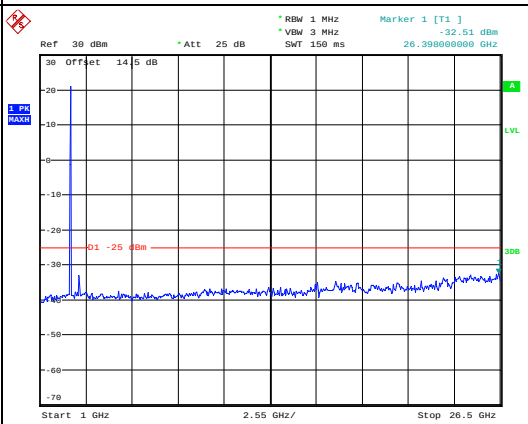
Occupied Bandwidth

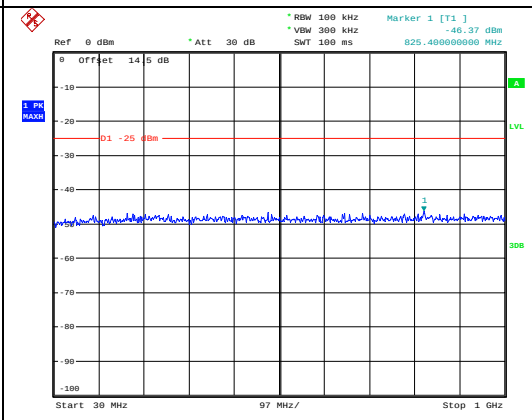
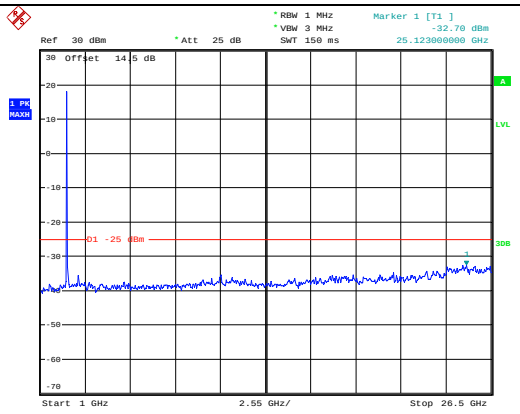
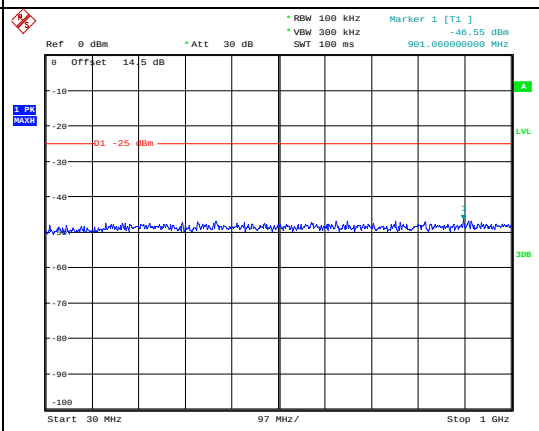
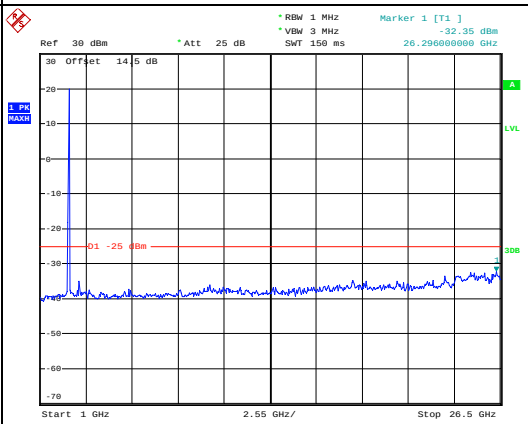
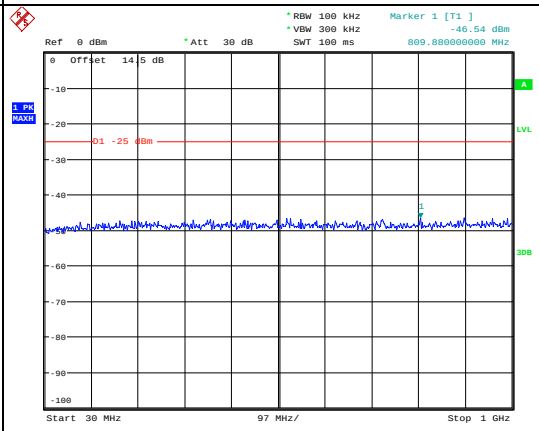
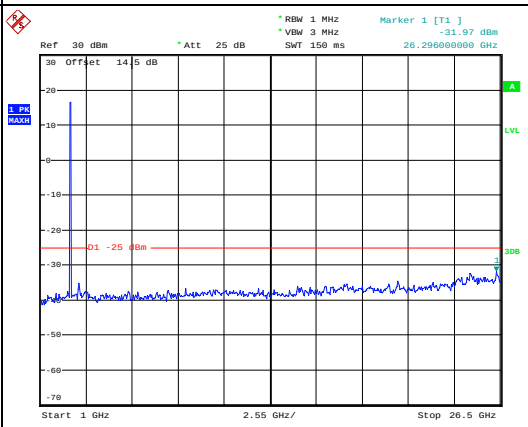
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

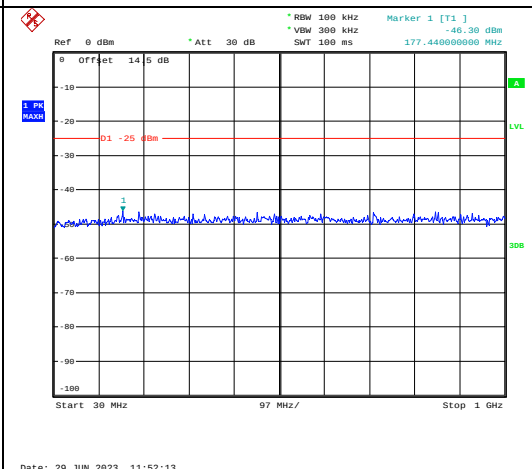
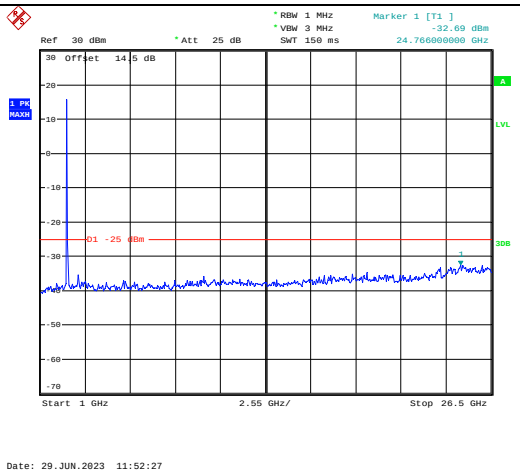
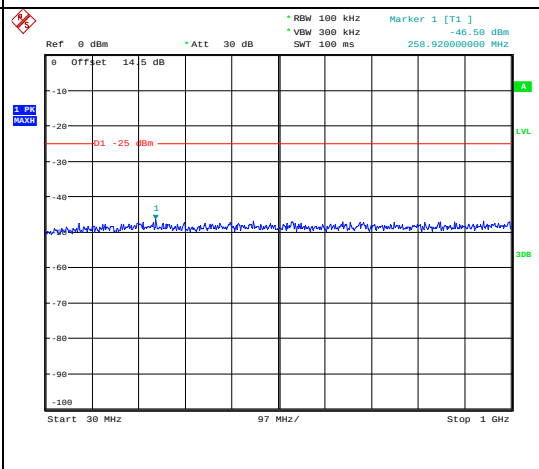
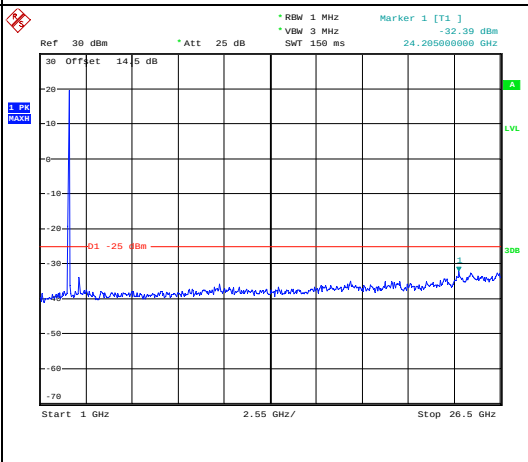
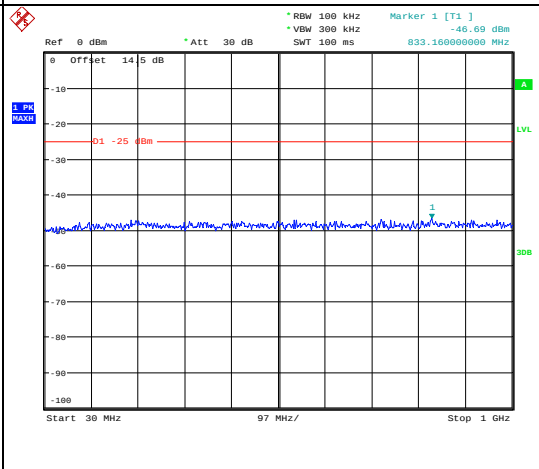
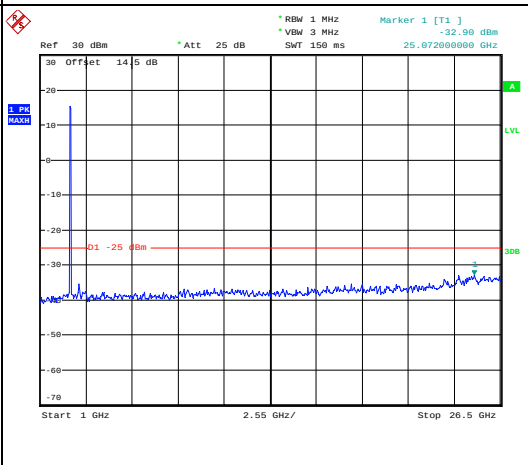
Occupied Bandwidth

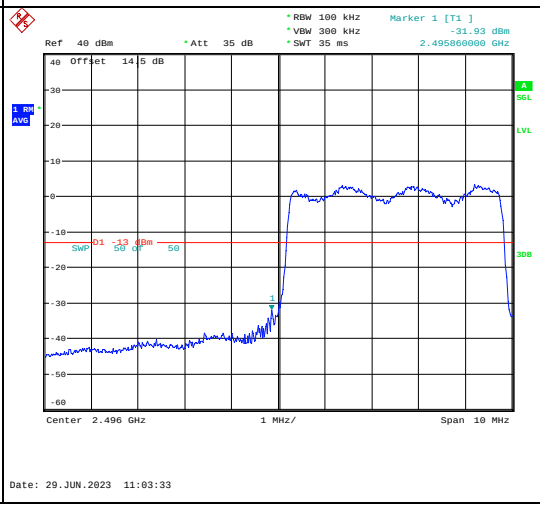
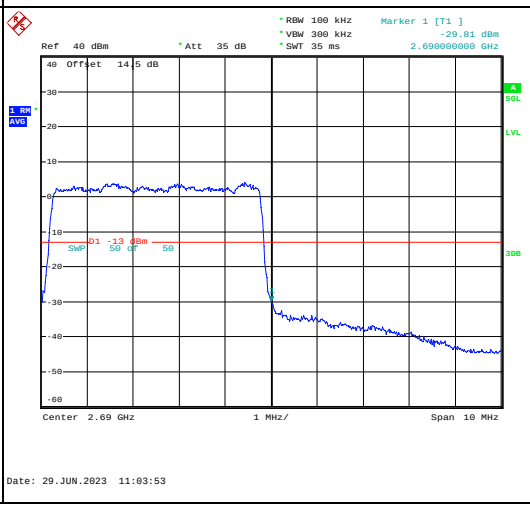
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

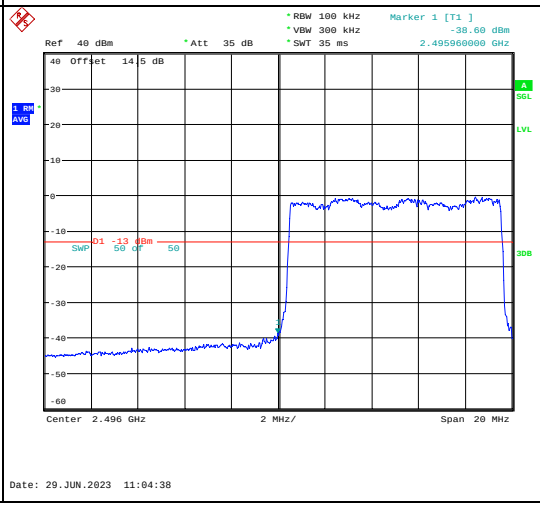
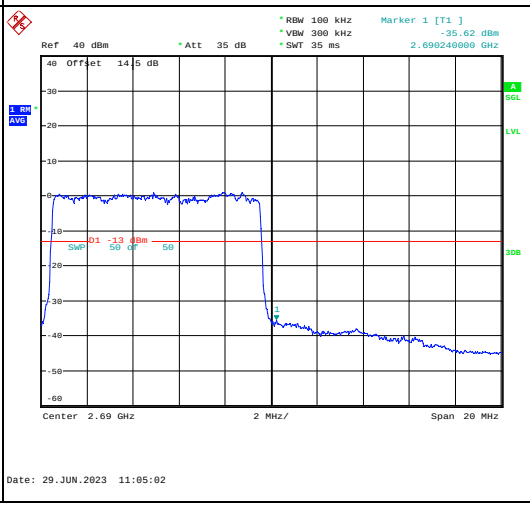
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

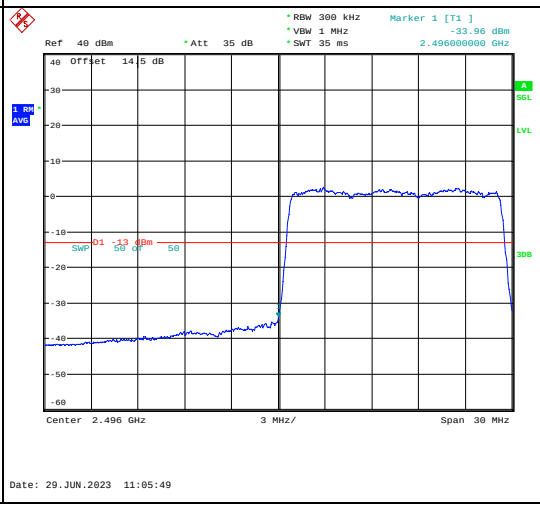
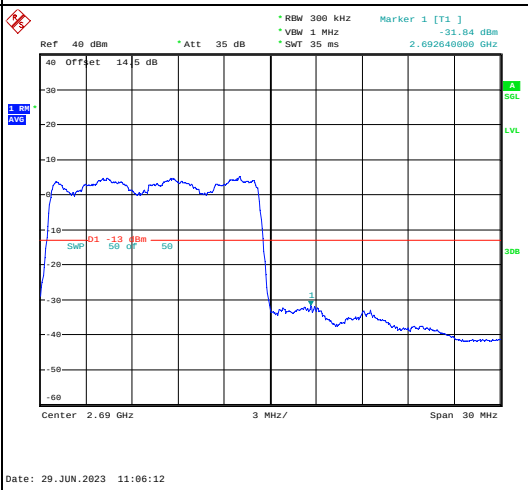
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest	 Date: 29.JUN.2023 11:38:56	 Date: 29.JUN.2023 11:39:09
Middle	 Date: 29.JUN.2023 11:39:28	 Date: 29.JUN.2023 11:39:41
Highest	 Date: 29.JUN.2023 11:40:00	 Date: 29.JUN.2023 11:40:13

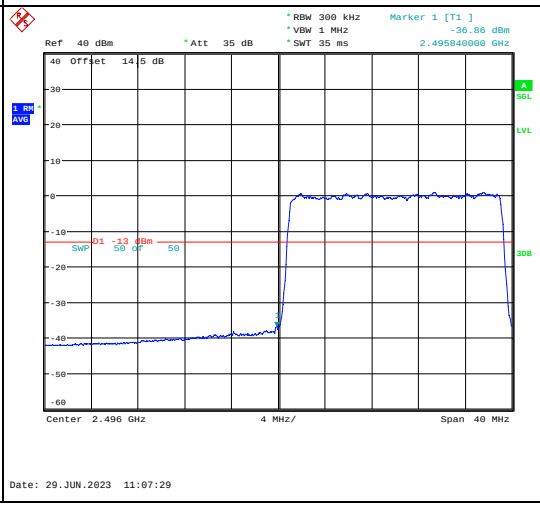
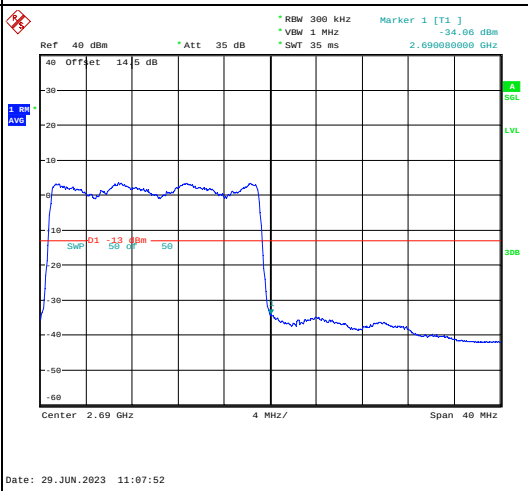
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest	 Date: 29.JUN.2023 11:49:24	 Date: 29.JUN.2023 11:49:36
Middle	 Date: 29.JUN.2023 11:49:56	 Date: 29.JUN.2023 11:50:09
Highest	 Date: 29.JUN.2023 11:50:29	 Date: 29.JUN.2023 11:50:39

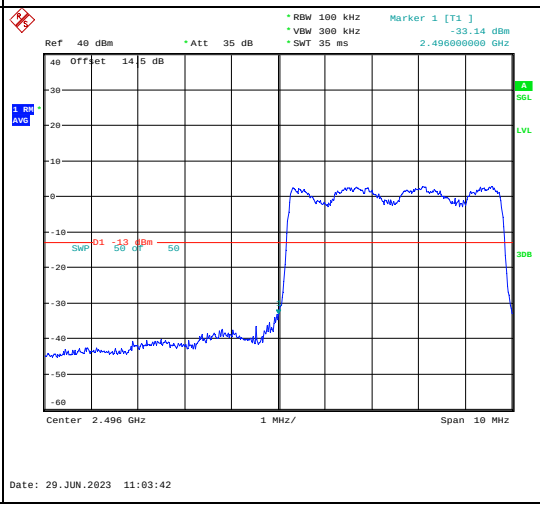
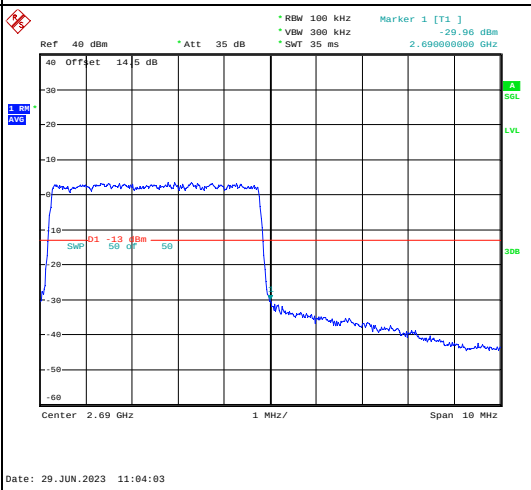
Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

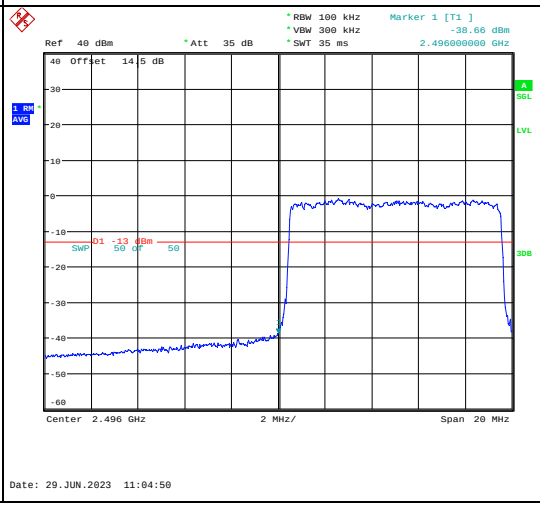
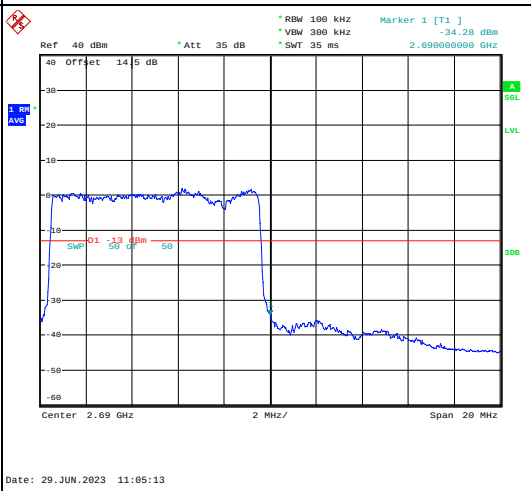
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 5MHz		

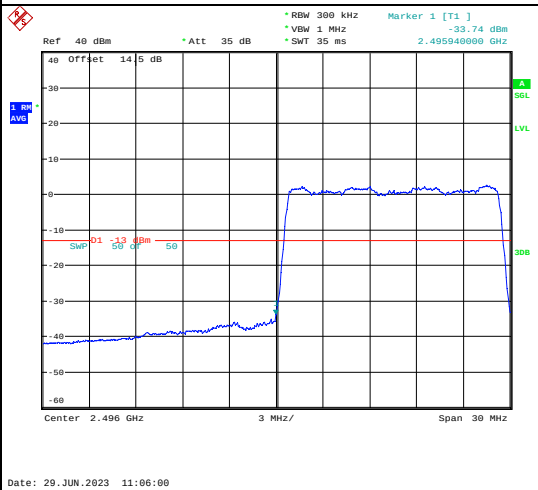
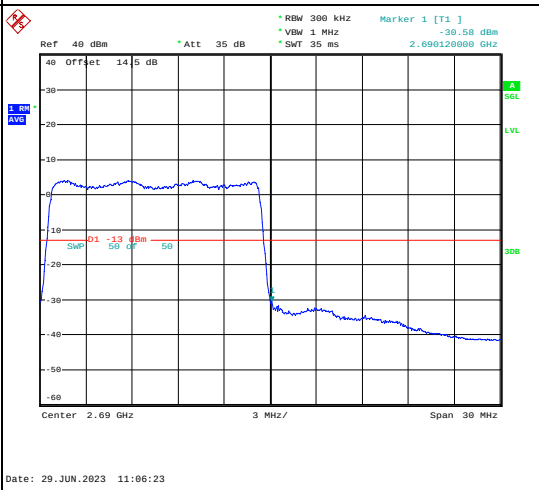
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 10MHz		

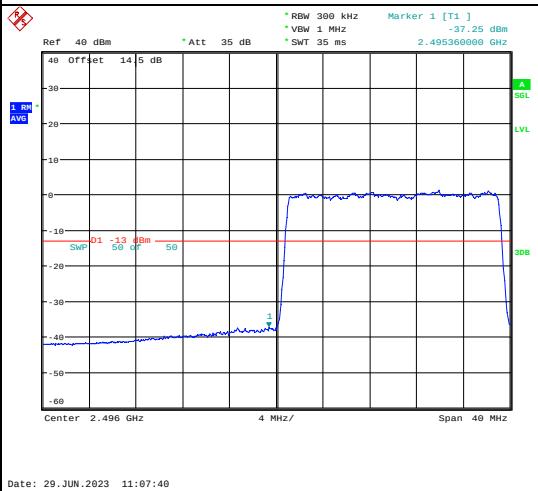
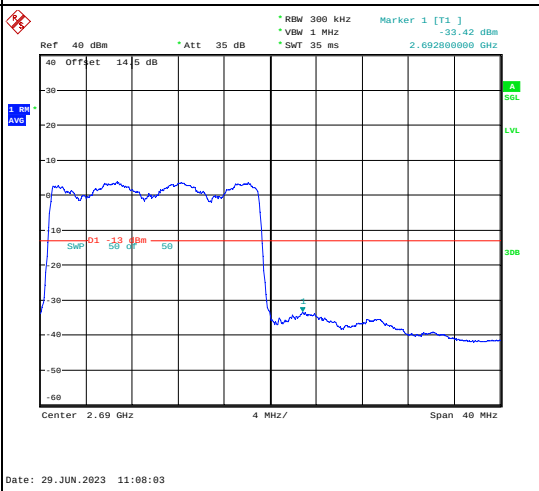
Out of band emission, Band Edge		
Mode	**Lowest**	**Highest**
QPSK 15MHz		

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		

4.14 Antenna Port Test Data and Results for LTE Band 66

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/6/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
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	21.39	21.19	20.75	20.41	30
	RB1#3	21.61	21.39	20.9		
	RB1#5	21.35	21.18	20.73		
	RB3#0	21.43	21.14	20.71		
	RB3#3	21.45	21.13	20.69		
	RB6#0	20.48	20.27	19.86		
1.4MHz 16QAM	RB1#0	20.38	20.15	19.73	19.4	30
	RB1#3	20.6	20.28	19.89		
	RB1#5	20.42	20.08	19.69		
	RB3#0	20.52	20.25	19.48		
	RB3#3	20.5	20.28	19.52		
	RB6#0	19.38	19.23	18.76		
3MHz QPSK	RB1#0	21.93	20.62	20.41	20.73	30
	RB1#8	21.87	20.64	20.43		
	RB1#14	21.61	20.61	20.38		
	RB6#0	20.73	19.55	19.33		
	RB6#9	20.38	19.58	19.37		
	RB15#0	20.42	19.56	19.27		
3MHz 16QAM	RB1#0	20.54	19.55	19.65	19.35	30
	RB1#8	20.55	19.54	19.58		
	RB1#14	20.51	19.48	19.57		
	RB6#0	19.4	18.46	18.32		
	RB6#9	19.39	18.47	18.26		
	RB15#0	19.35	18.52	18.23		
5MHz QPSK	RB1#0	21.33	20.79	20.07	20.21	30
	RB1#13	21.41	20.91	20.28		
	RB1#24	21.21	20.72	20.16		
	RB15#0	20.49	19.79	19.11		
	RB15#10	20.36	19.92	19.21		
	RB25#0	20.4	19.81	19.13		
5MHz 16QAM	RB1#0	20.39	19.6	19.28	19.3	30
	RB1#13	20.5	19.74	19.42		
	RB1#24	20.34	19.59	19.26		
	RB15#0	19.48	18.8	18.1		
	RB15#10	19.4	18.83	18.09		
	RB25#0	19.45	18.84	18.13		
10MHz QPSK	RB1#0	21.92	21.08	20.86	20.72	30
	RB1#25	21.91	21.28	20.89		
	RB1#49	21.39	21.11	20.92		

	RB25#0	21.02	20.05	19.84		
	RB25#25	20.3	20.18	19.88		
	RB50#0	20.46	20.09	19.89		
10MHz 16QAM	RB1#0	20.87	20.24	19.94	19.91	30
	RB1#25	21.11	20.32	19.91		
	RB1#49	20.91	20.14	19.7		
	RB25#0	19.65	19.02	19.04		
	RB25#25	19.42	19.09	18.95		
	RB50#0	19.51	19.05	18.92		
15MHz QPSK	RB1#0	21.33	20.2	20.65	20.13	30
	RB1#38	21.13	20.39	20.36		
	RB1#74	20.86	20.17	20.56		
	RB36#0	20.39	19.4	19.76		
	RB36#39	20.1	19.57	19.83		
	RB75#0	20.32	19.41	19.83		
15MHz 16QAM	RB1#0	20.73	19.73	19.96	19.57	30
	RB1#38	20.77	19.81	19.76		
	RB1#74	20.53	19.68	19.56		
	RB36#0	19.44	18.32	18.79		
	RB36#39	19.15	18.36	18.71		
	RB75#0	19.38	18.37	18.85		
20MHz QPSK	RB1#0	21.17	20.86	20.04	20.12	30
	RB1#50	20.96	21.32	19.66		
	RB1#99	20.66	20.88	19.83		
	RB50#0	20.5	19.95	19.35		
	RB50#50	20.23	20.07	19.07		
	RB100#0	20.38	20.02	19.23		
20MHz 16QAM	RB1#0	20.7	20.25	19.26	19.74	30
	RB1#50	20.94	20.53	19.47		
	RB1#99	20.43	20.15	18.84		
	RB50#0	19.53	18.91	18.48		
	RB50#50	19.35	19.05	18.12		
	RB100#0	19.49	19.02	18.31		
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	9.9	10.32	9.94	13
	RB100#0	6.44	6.51	6.51	13
20MHz 16QAM	RB1#0	9.04	9.97	9.65	13
	RB100#0	7.21	7.12	7.24	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	1.104	1.104	1.11	1.29	1.308	1.35
1.4MHz 16QAM	1.098	1.104	1.104	1.296	1.314	1.308
3MHz QPSK	2.687	2.687	2.7	2.892	2.88	2.88
3MHz 16QAM	2.687	2.676	2.687	2.88	2.88	2.88
5MHz QPSK	4.52	4.54	4.54	5.2	5.18	5.22
5MHz 16QAM	4.54	4.52	4.52	5.16	5.16	5.12
10MHz QPSK	9	8.96	9	10.04	9.84	9.84
10MHz 16QAM	9	8.96	9	9.92	9.76	9.8
15MHz QPSK	13.68	13.44	13.56	15.3	14.94	14.94
15MHz 16QAM	13.62	13.44	13.62	15.24	15.12	15.12
20MHz QPSK	18.2	17.92	18.08	31.79	19.44	19.84
20MHz 16QAM	18.33	17.92	18.08	28.69	20	23.44
Note: The test plots please refer to the Plots of Occupied Bandwidth						

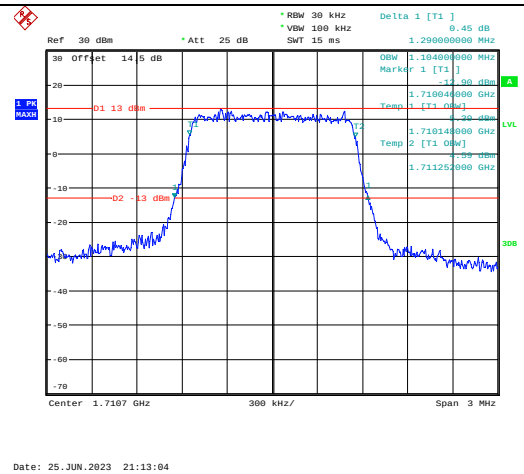
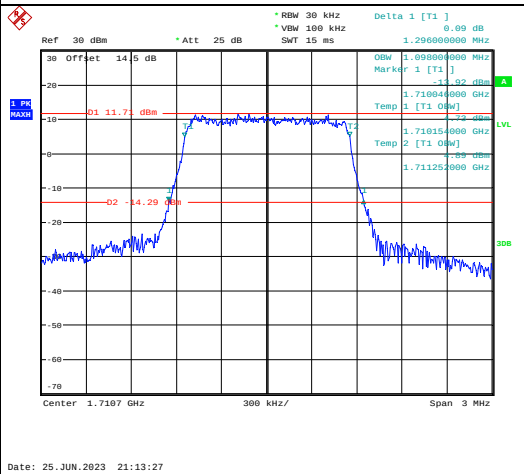
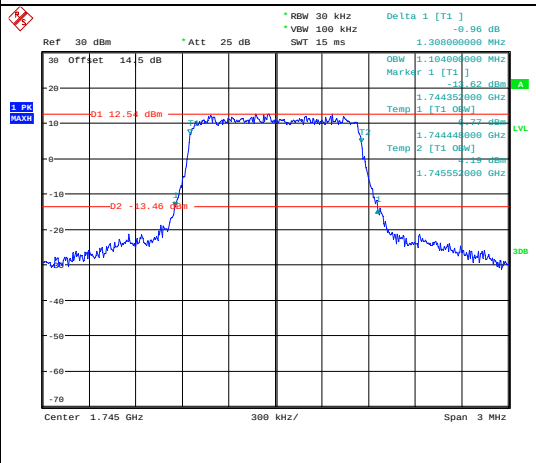
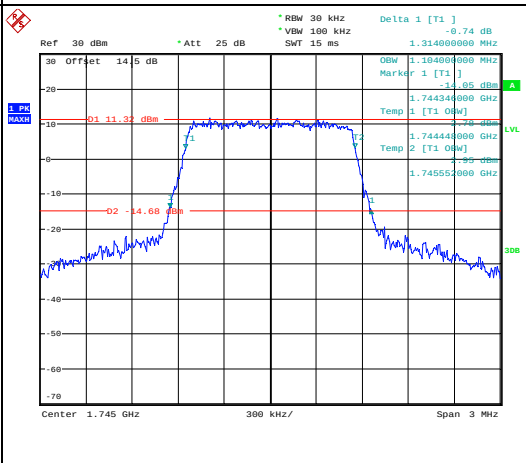
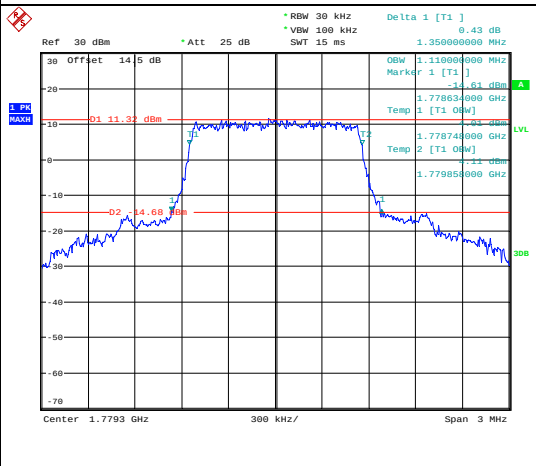
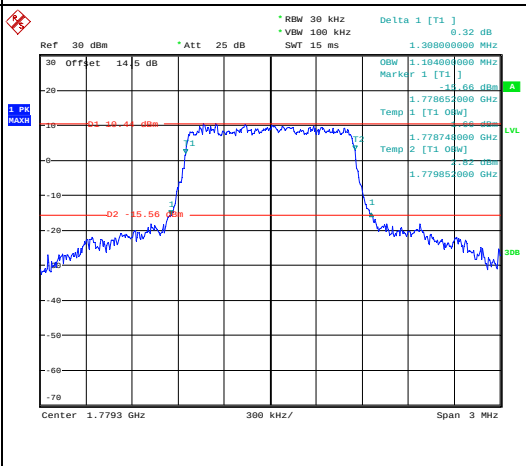
FCC §2.1051, § 27.53:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

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.**

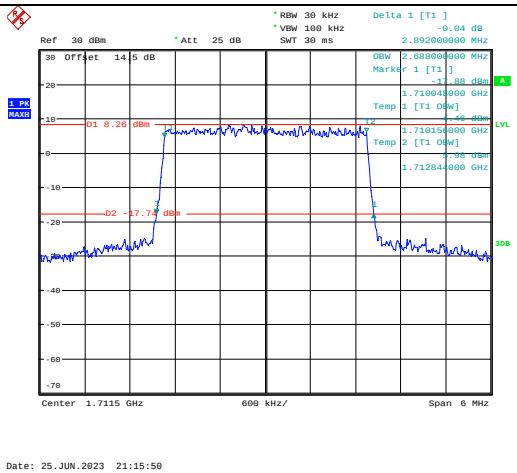
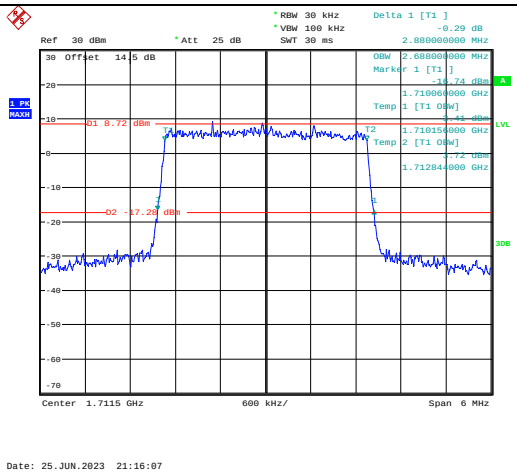
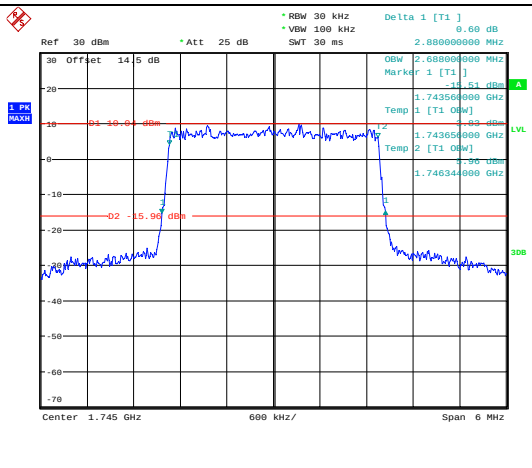
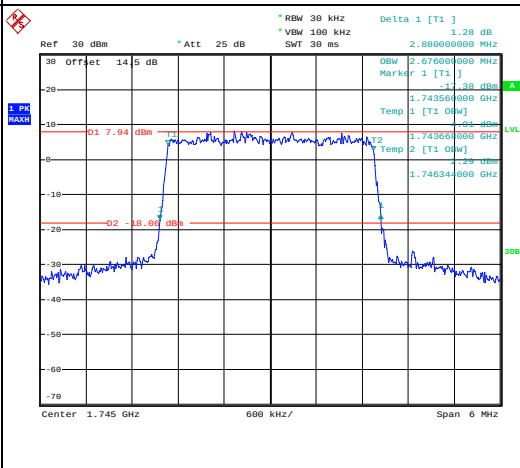
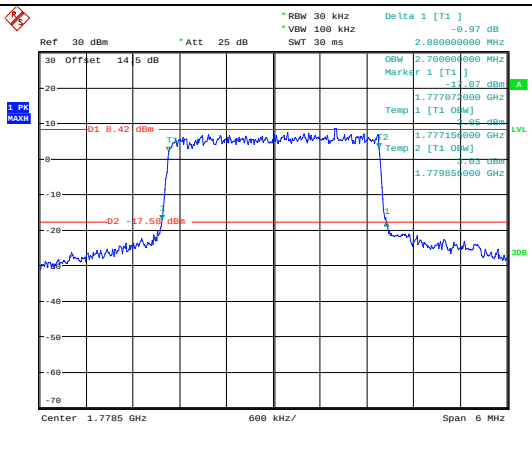
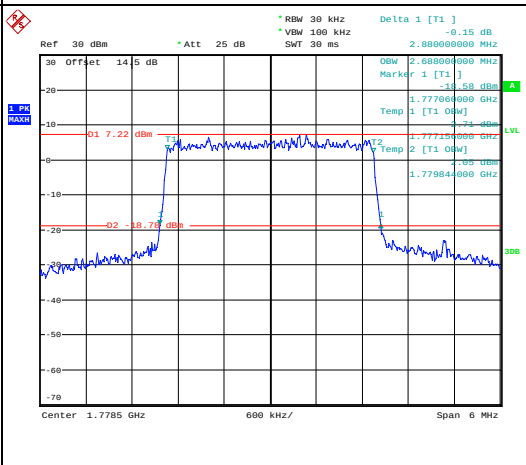
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.009	1710.00	1779.142	1780
	-20	3.8	1711.018	1710.00	1779.137	1780
	-10	3.8	1711.015	1710.00	1779.147	1780
	0	3.8	1711.022	1710.00	1779.138	1780
	10	3.8	1711.029	1710.00	1779.136	1780
	20	3.8	1711.030	1710.00	1779.120	1780
	30	3.8	1711.002	1710.00	1779.134	1780
	40	3.8	1711.025	1710.00	1779.127	1780
	50	3.8	1711.020	1710.00	1779.142	1780
Frequency Stability vs. Voltage	20	3.65	1711.019	1710.00	1779.120	1780
	20	4.35	1711.027	1710.00	1779.127	1780
					Result:	**Pass**

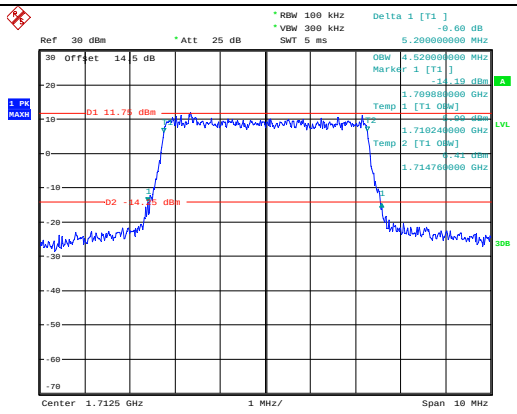
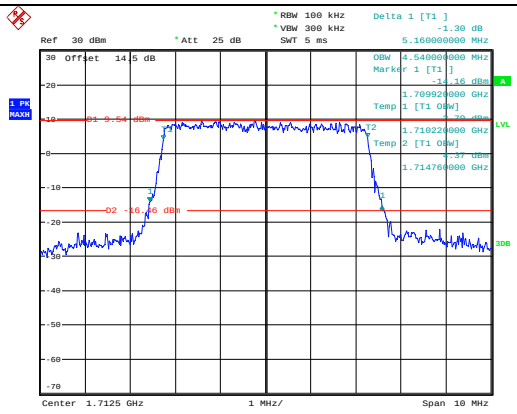
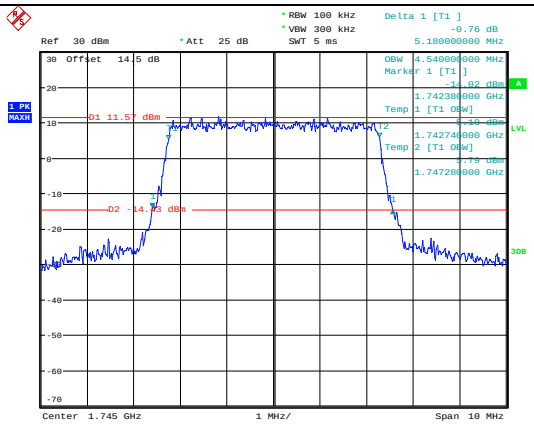
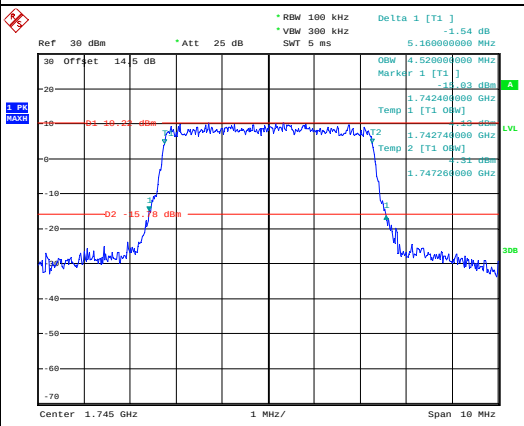
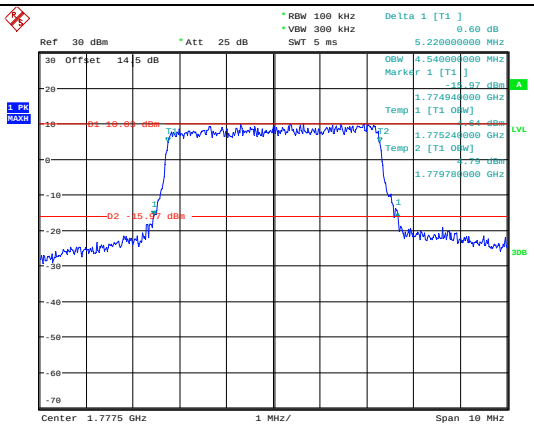
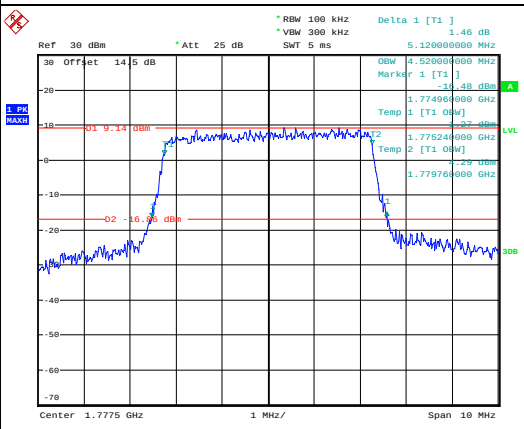
Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.014	1710.00	1779.134	1780
	-20	3.8	1711.002	1710.00	1779.140	1780
	-10	3.8	1711.012	1710.00	1779.130	1780
	0	3.8	1711.011	1710.00	1779.135	1780
	10	3.8	1711.008	1710.00	1779.134	1780
	20	3.8	1711.030	1710.00	1779.120	1780
	30	3.8	1711.007	1710.00	1779.146	1780
	40	3.8	1711.014	1710.00	1779.137	1780
	50	3.8	1711.006	1710.00	1779.136	1780
Frequency Stability vs. Voltage	20	3.65	1711.006	1710.00	1779.146	1780
	20	4.35	1711.013	1710.00	1779.124	1780
					Result:	**Pass**

Test Plots(Note: The 14.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

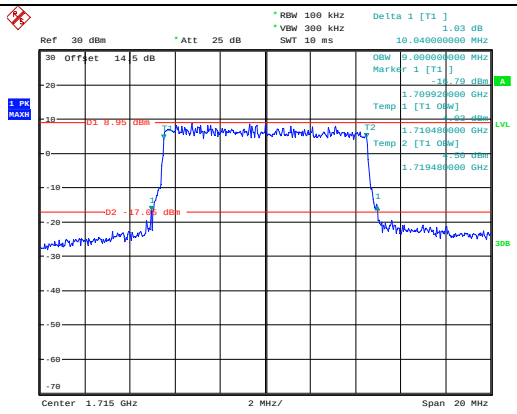
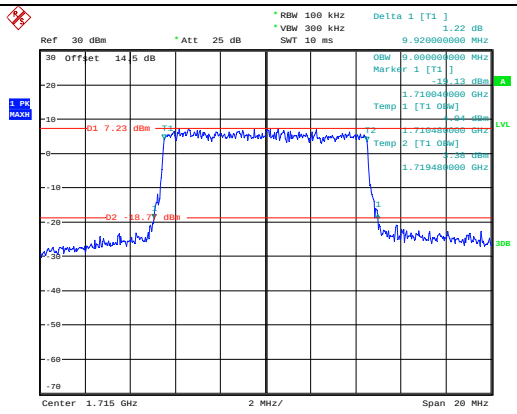
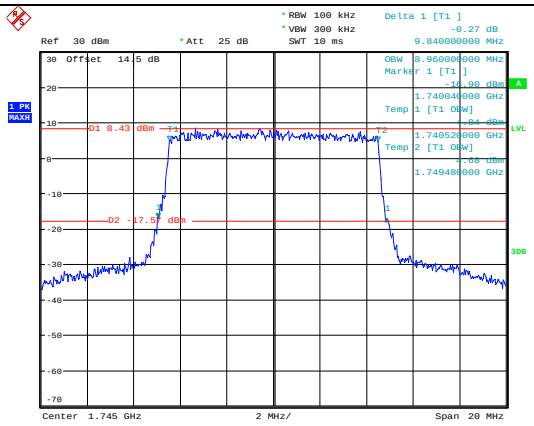
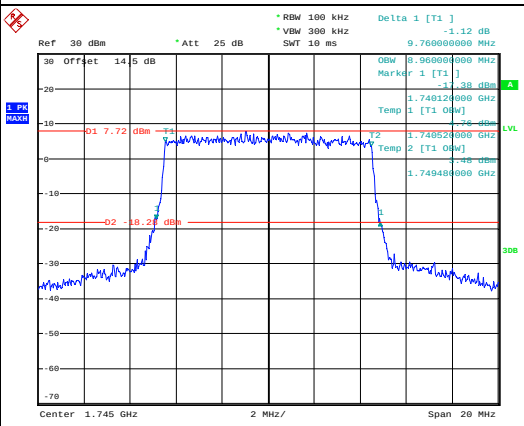
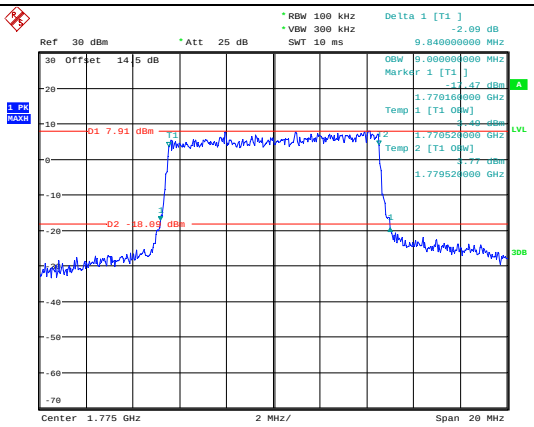
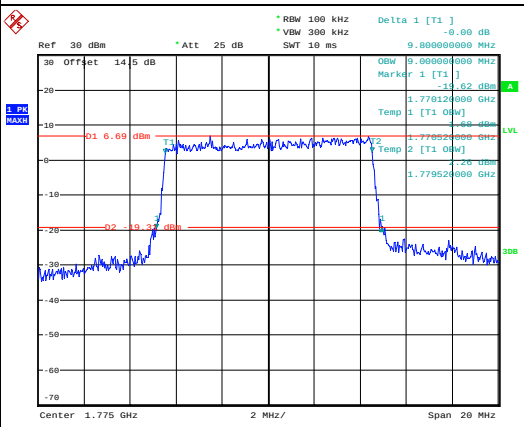
Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

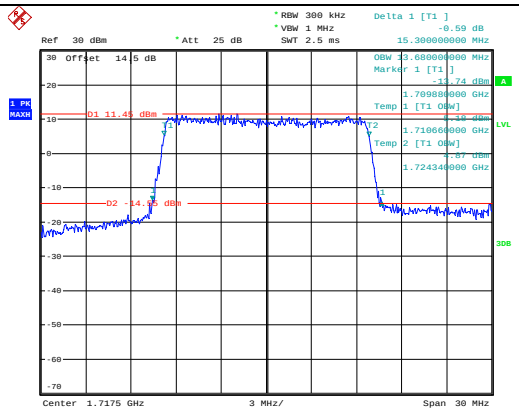
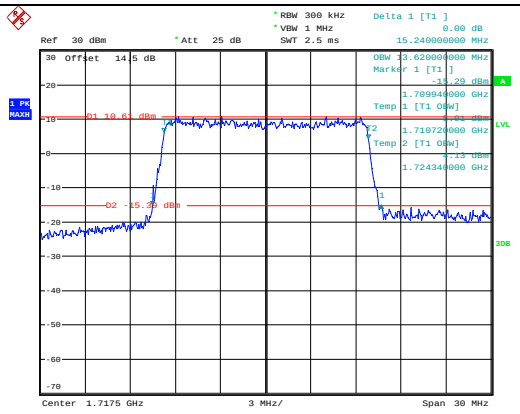
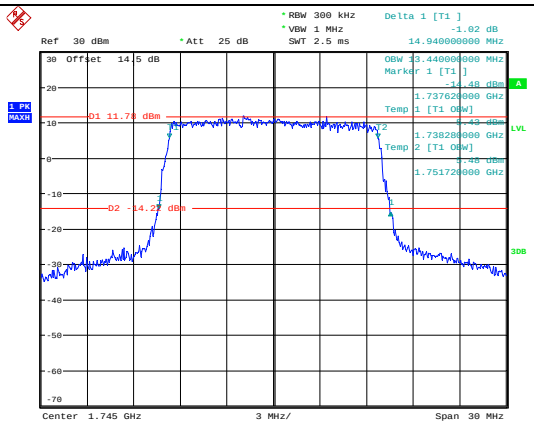
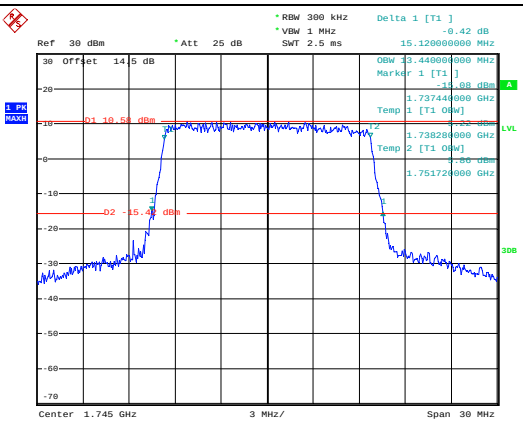
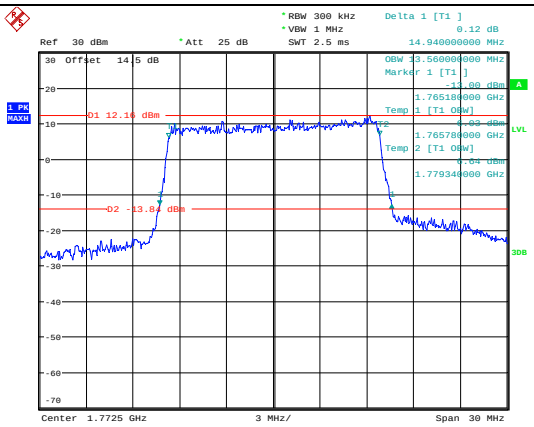
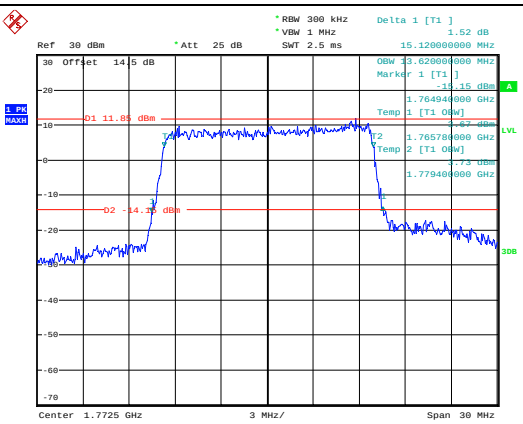
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

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

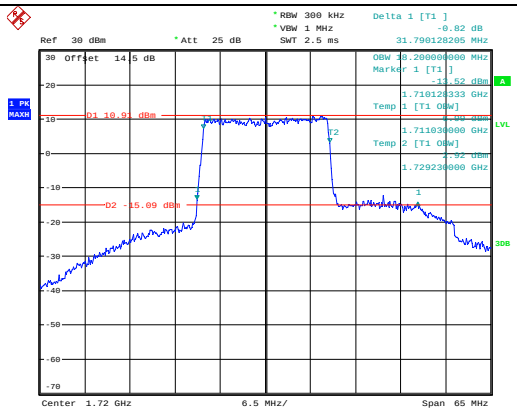
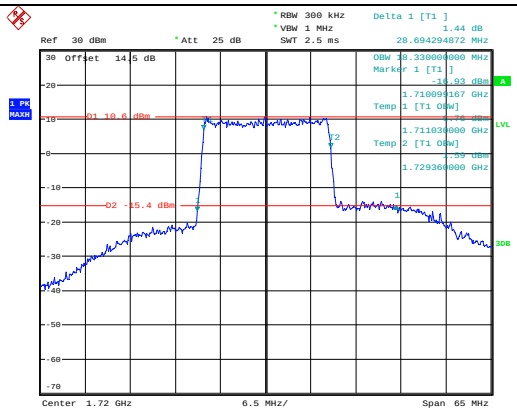
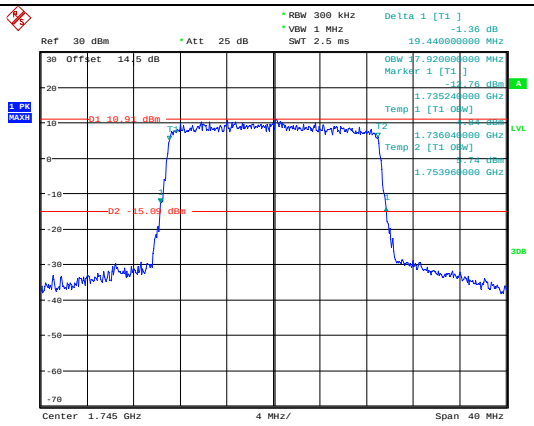
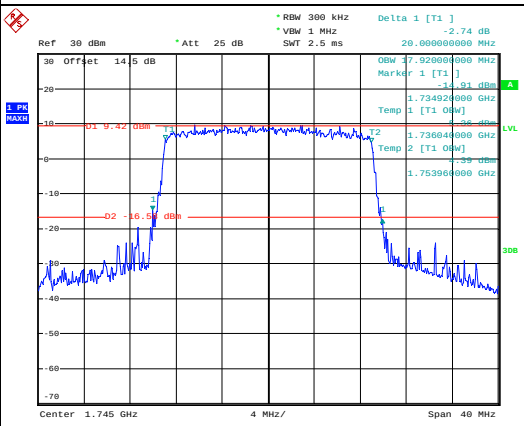
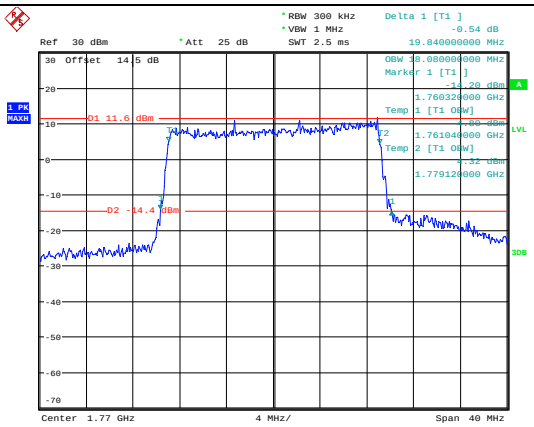
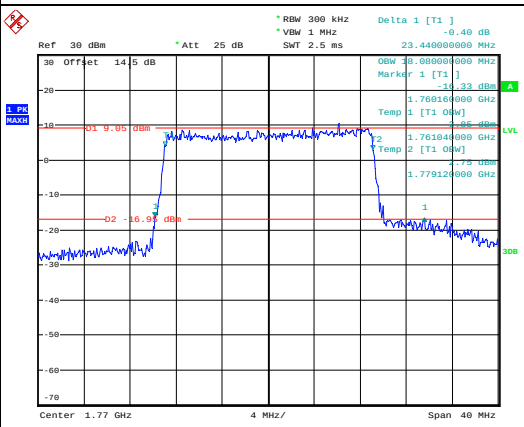
Occupied Bandwidth

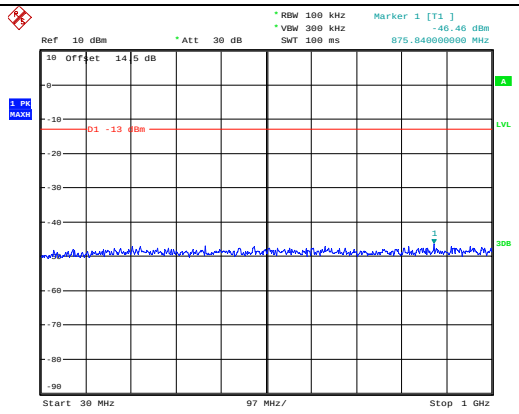
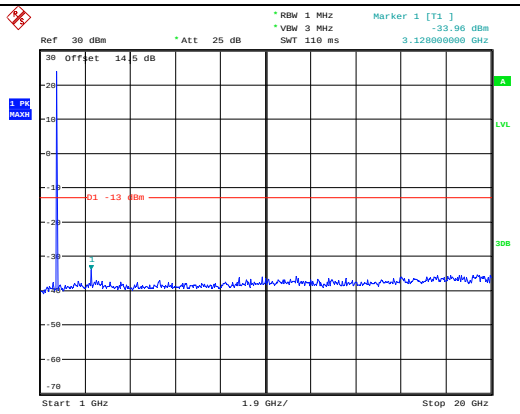
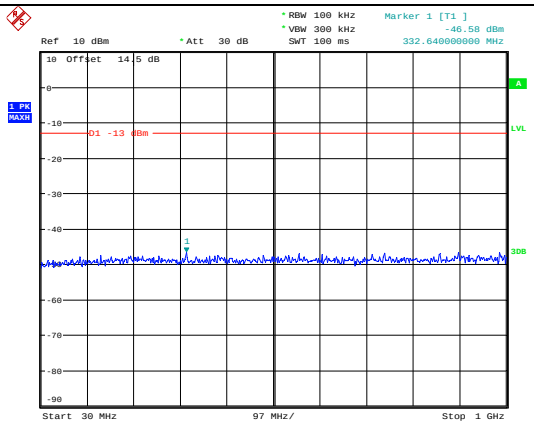
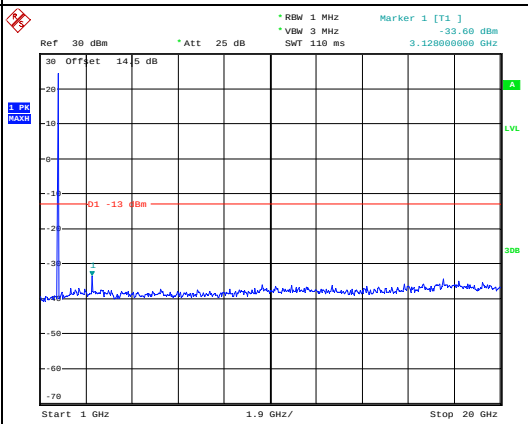
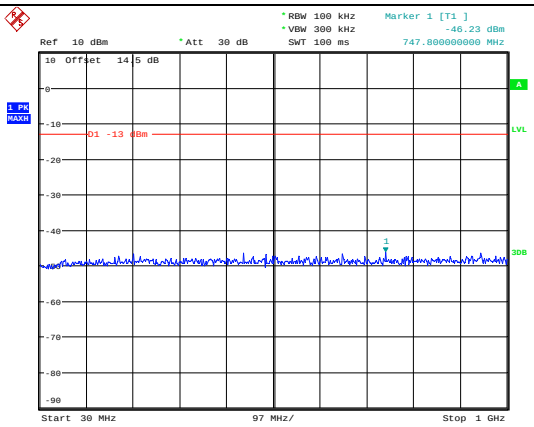
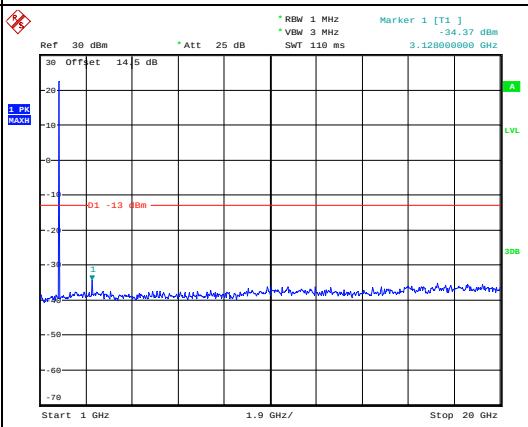
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

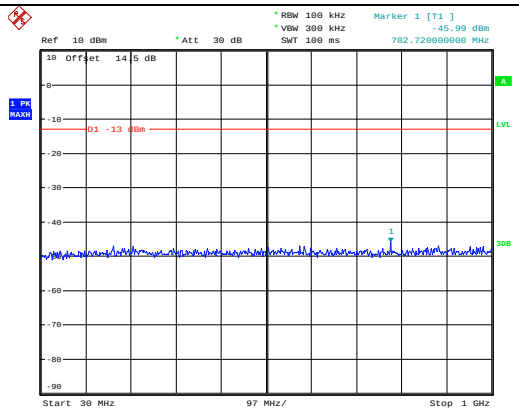
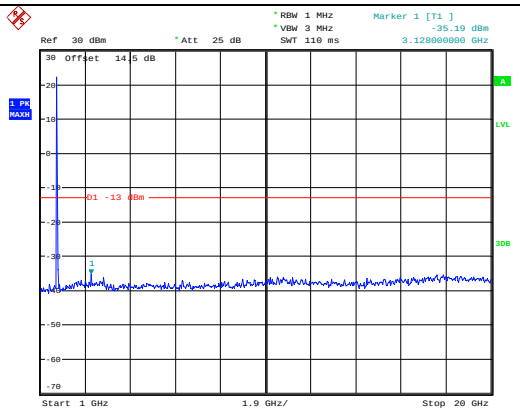
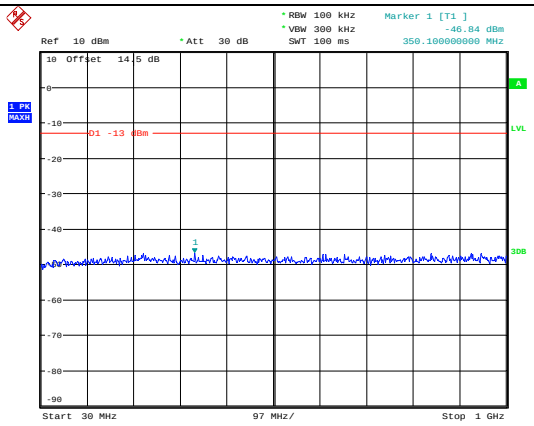
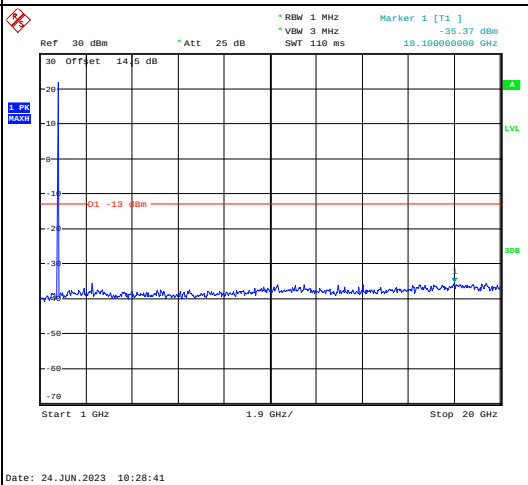
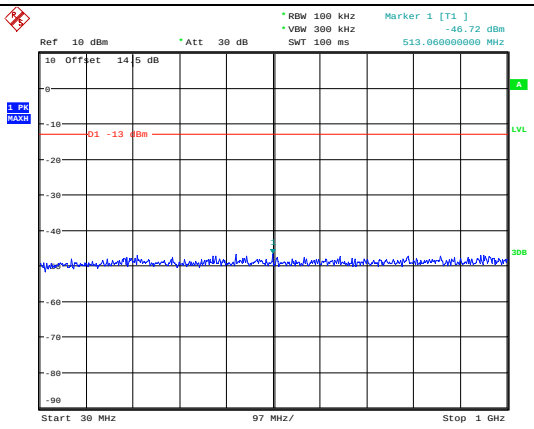
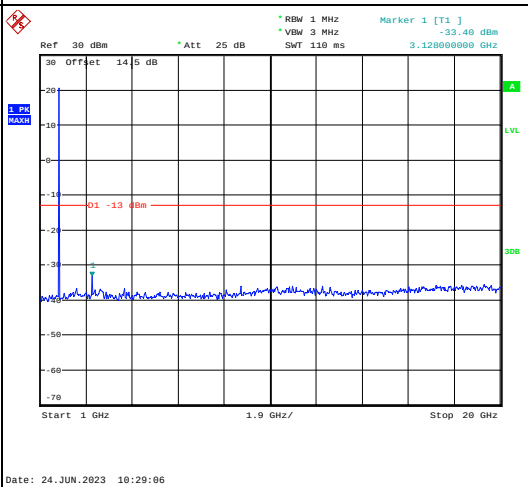
Occupied Bandwidth

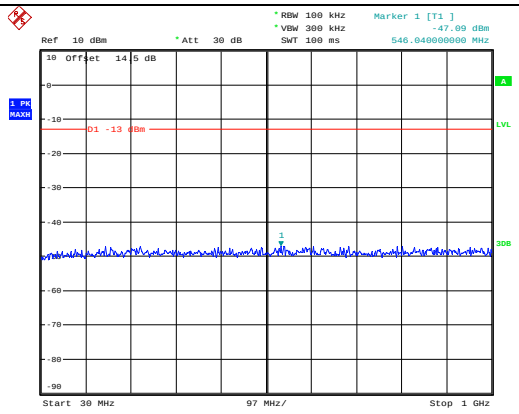
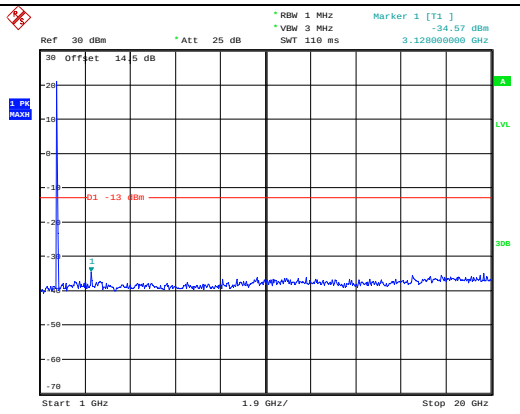
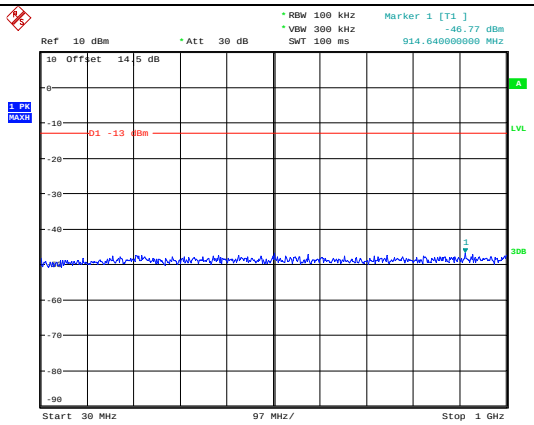
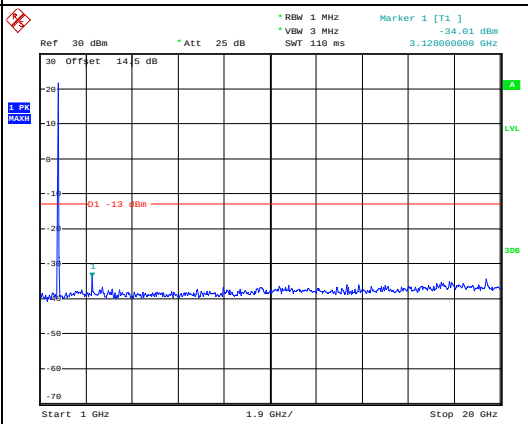
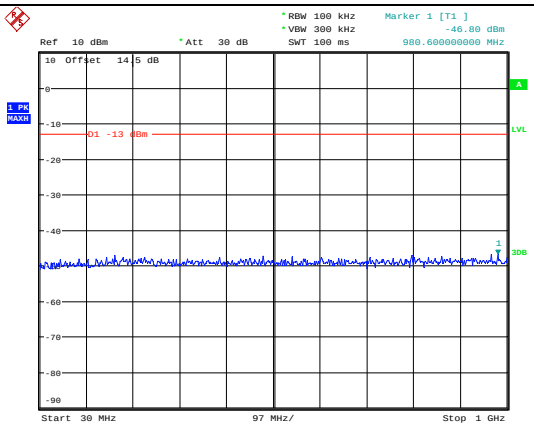
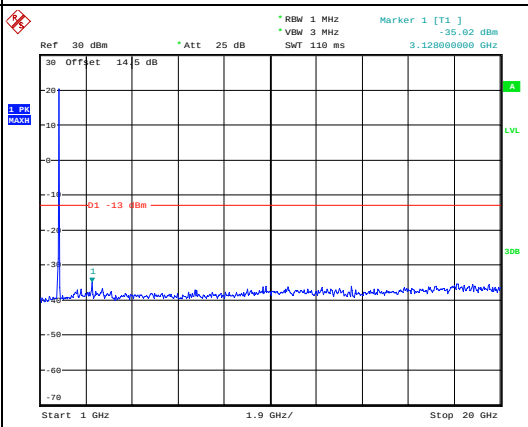
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	 Date: 25.JUN.2023 21:24:05	 Date: 25.JUN.2023 21:24:26
Middle	 Date: 25.JUN.2023 21:24:47	 Date: 25.JUN.2023 21:25:07
Highest	 Date: 25.JUN.2023 21:25:28	 Date: 25.JUN.2023 21:25:48

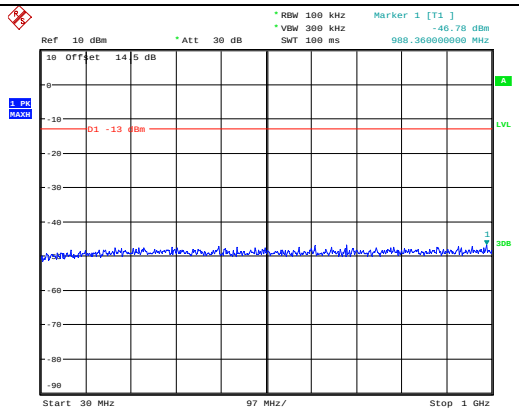
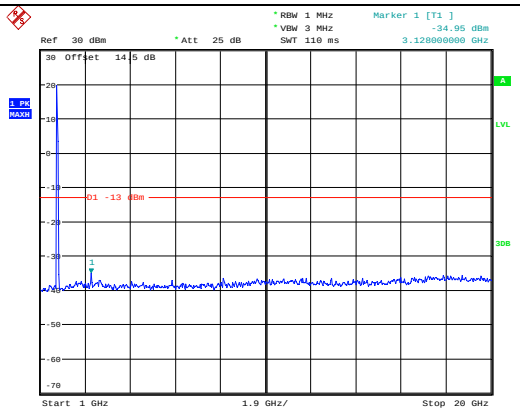
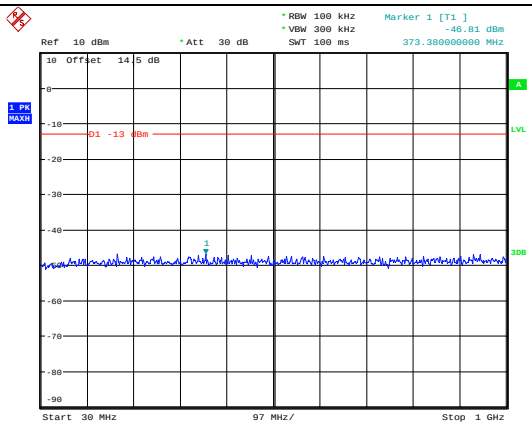
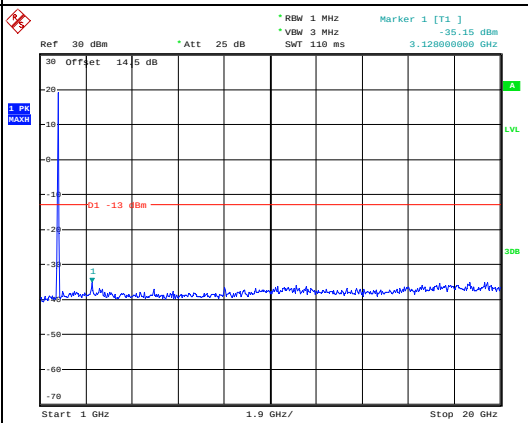
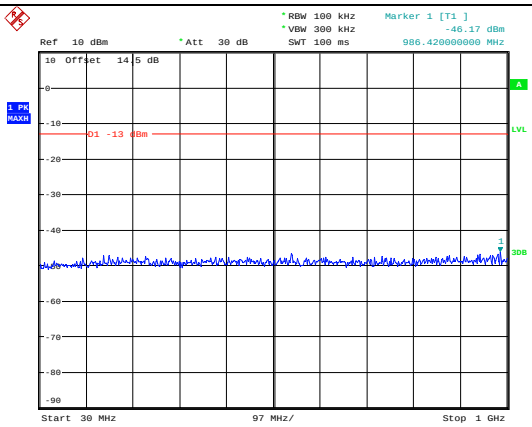
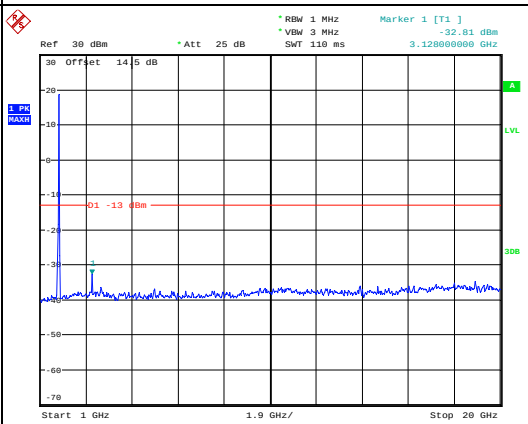
Occupied Bandwidth

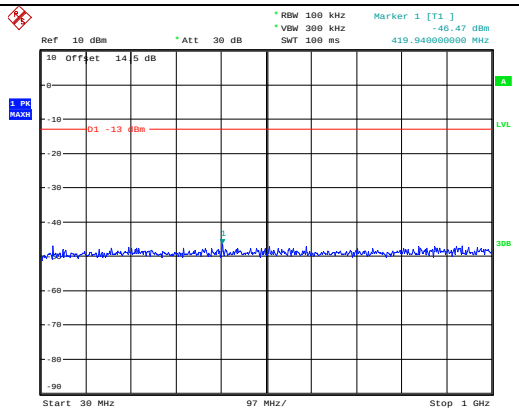
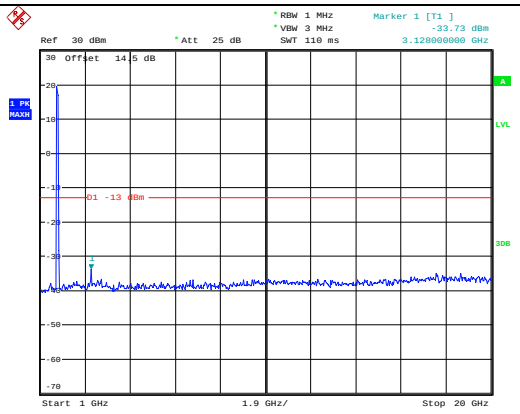
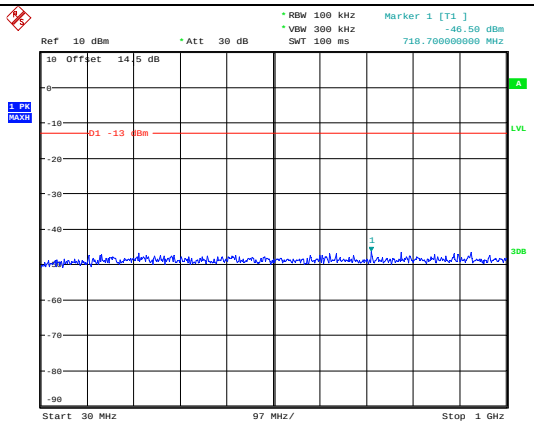
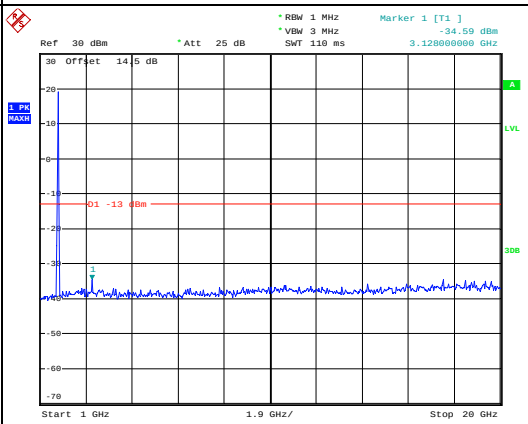
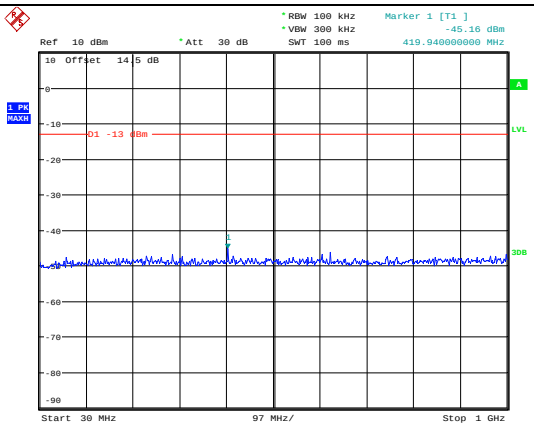
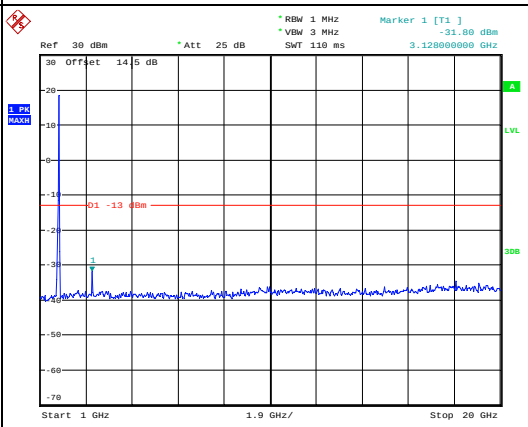
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

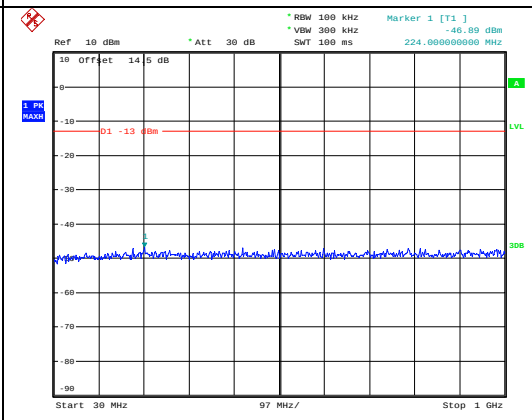
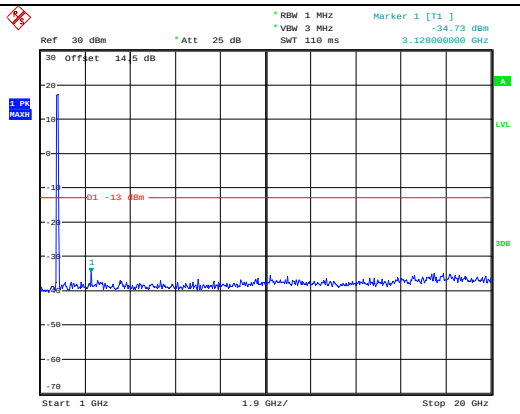
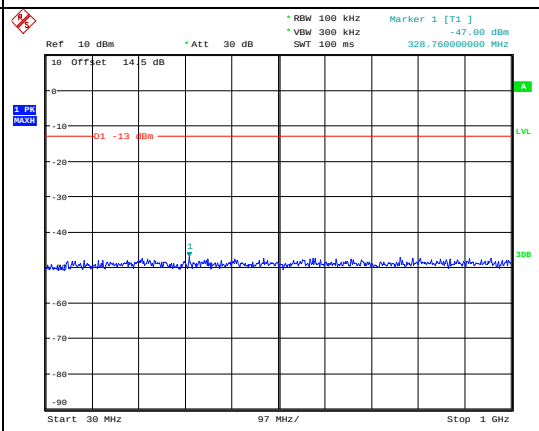
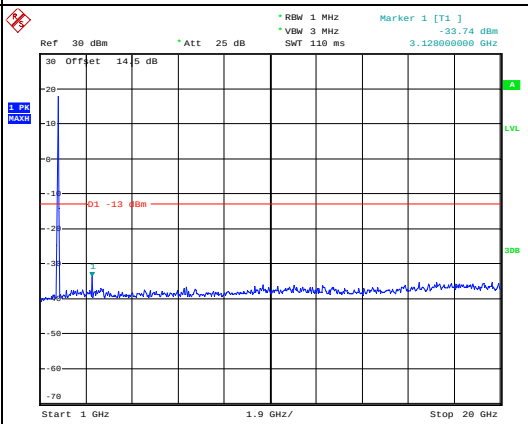
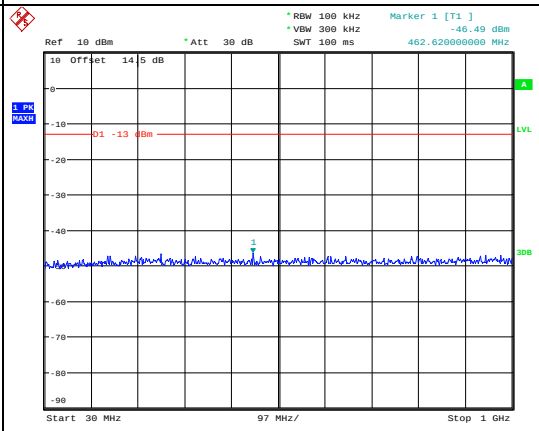
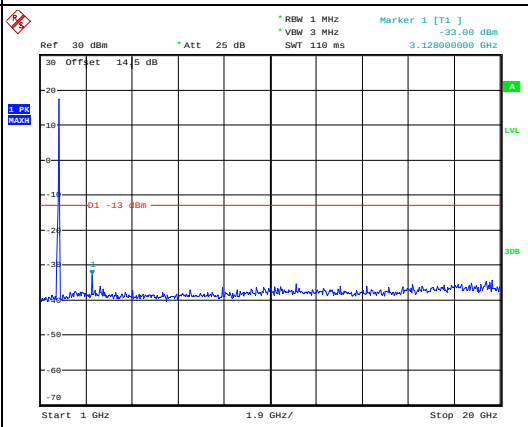
Spurious Emissions at Antenna Terminal		
Channel	**1.4MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

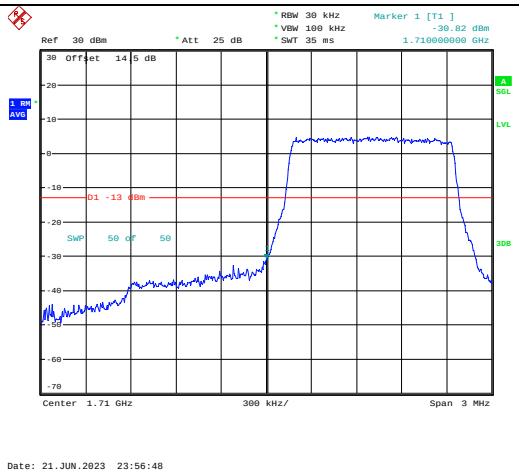
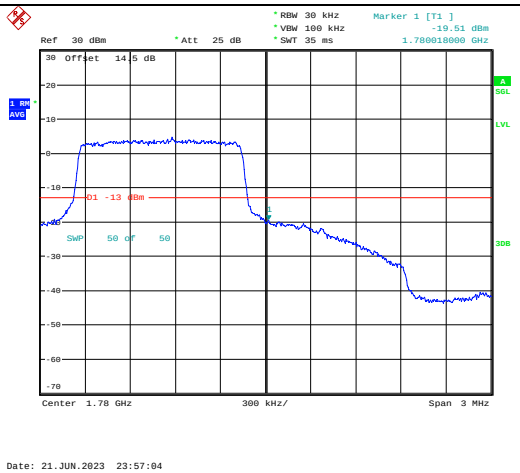
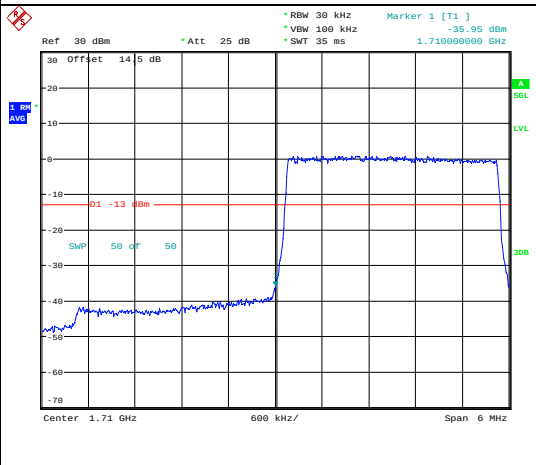
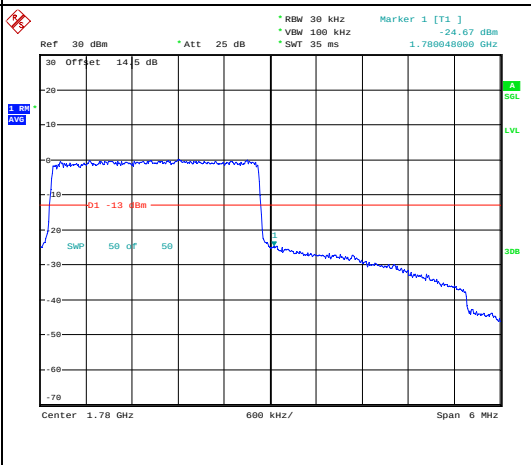
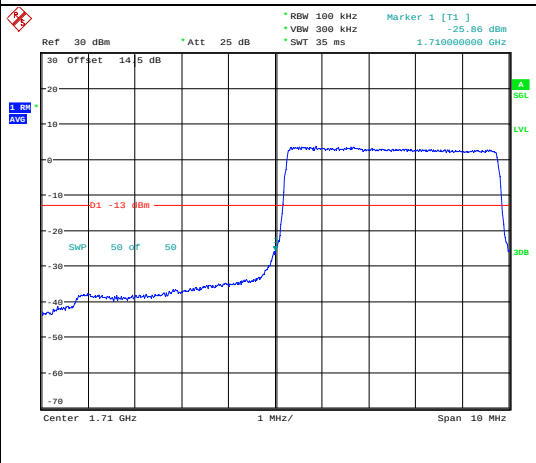
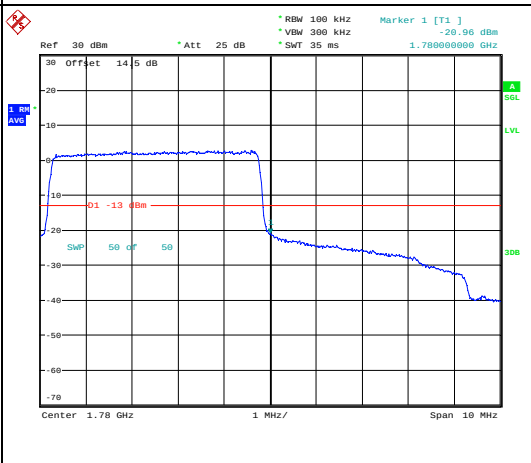
Spurious Emissions at Antenna Terminal		
Channel	**3MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

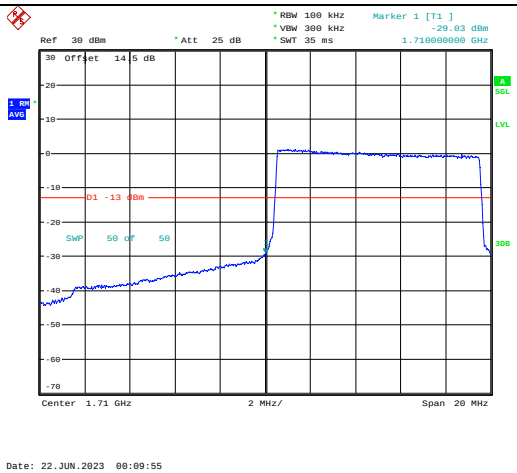
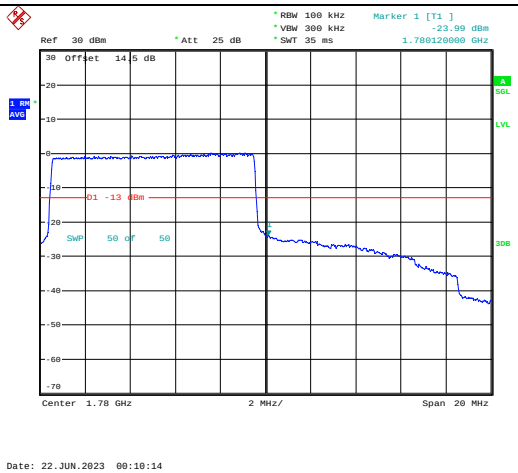
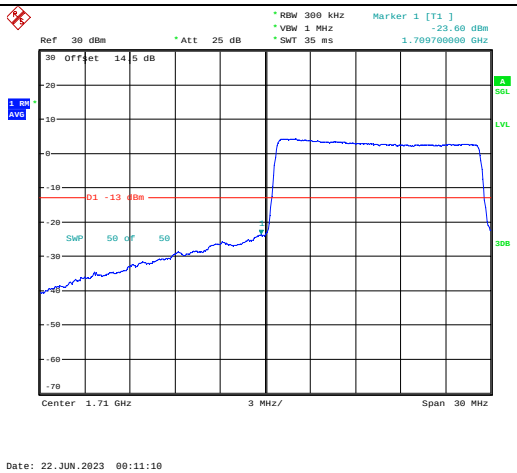
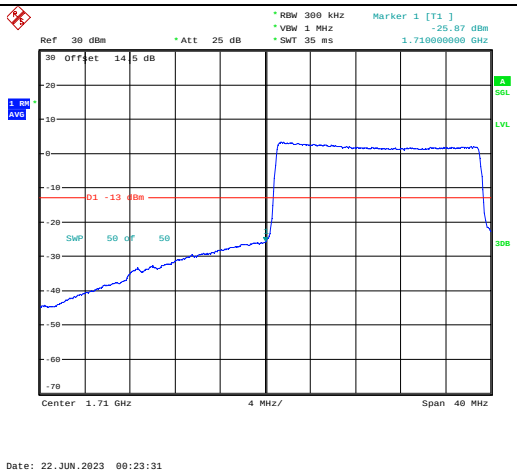
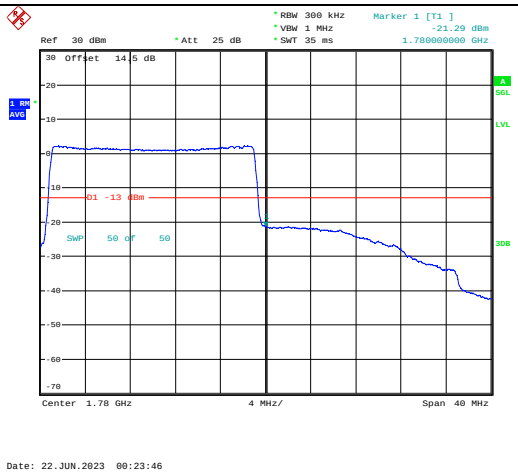
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

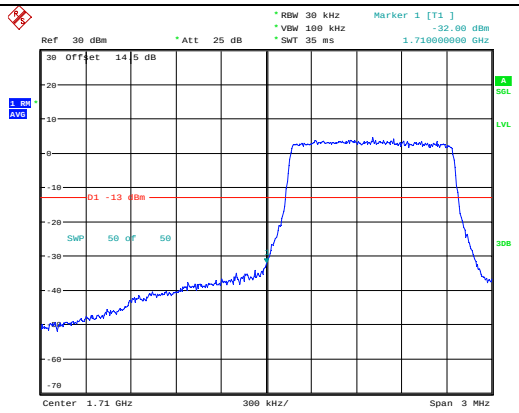
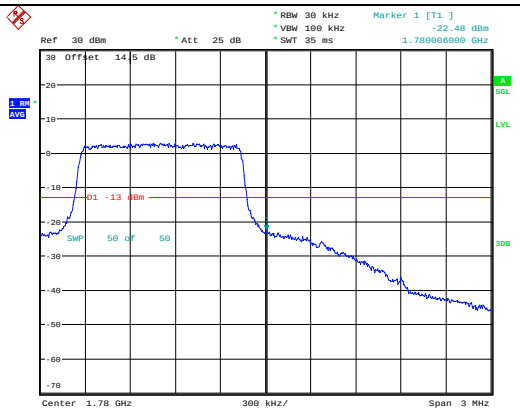
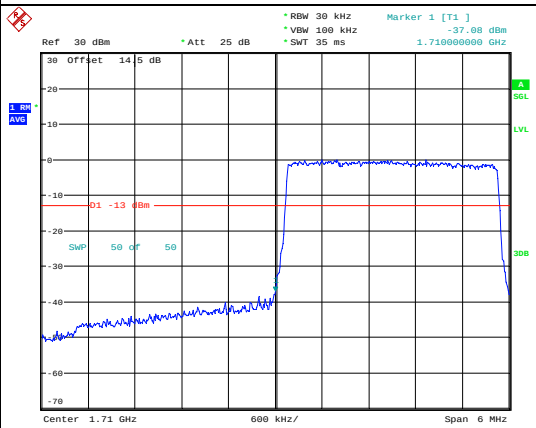
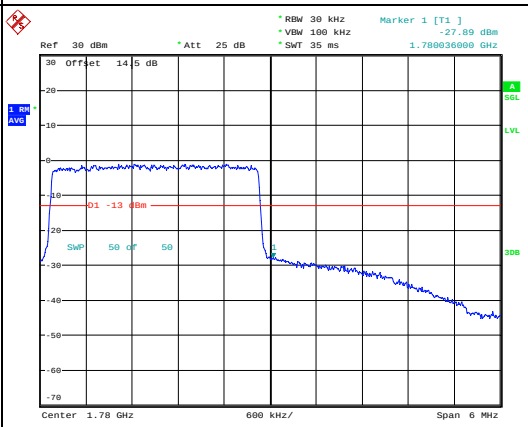
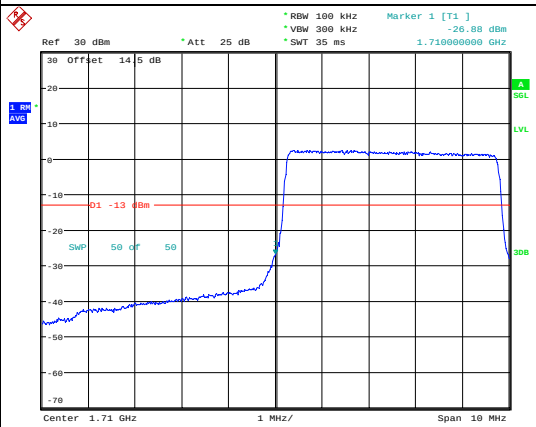
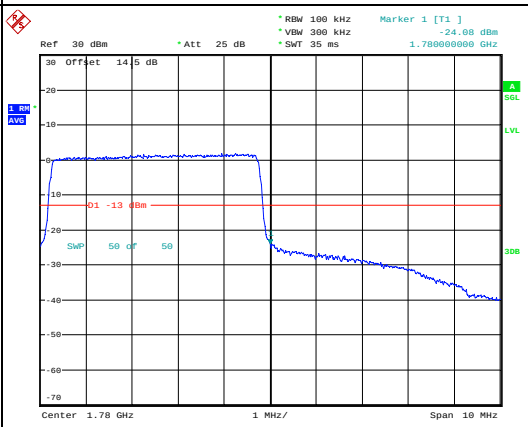
Spurious Emissions at Antenna Terminal		
Channel	**10MHz Bandwidth QPSK**	
Lowest	 Date: 24.JUN.2023 10:31:28	 Date: 24.JUN.2023 10:31:39
Middle	 Date: 24.JUN.2023 10:31:53	 Date: 24.JUN.2023 10:32:04
Highest	 Date: 24.JUN.2023 10:32:18	 Date: 24.JUN.2023 10:32:29

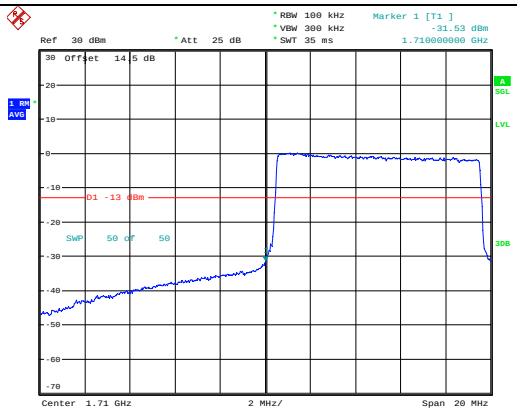
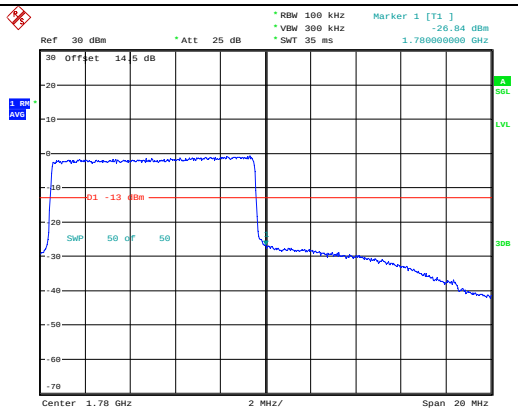
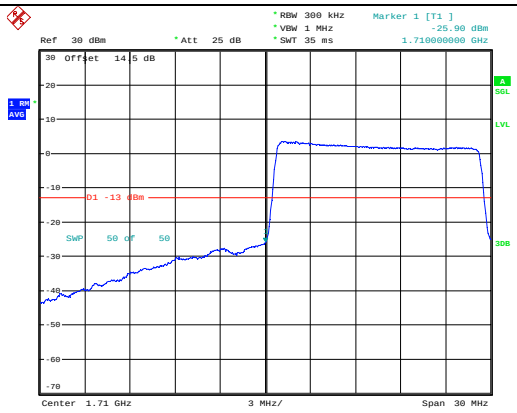
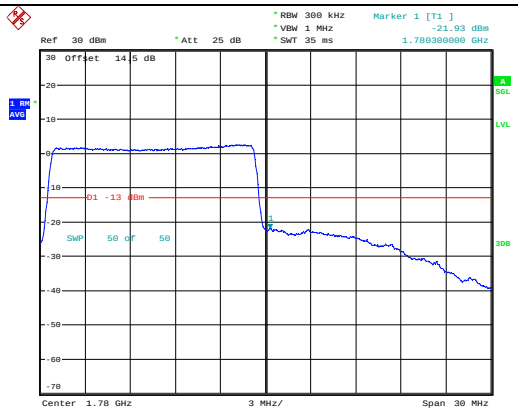
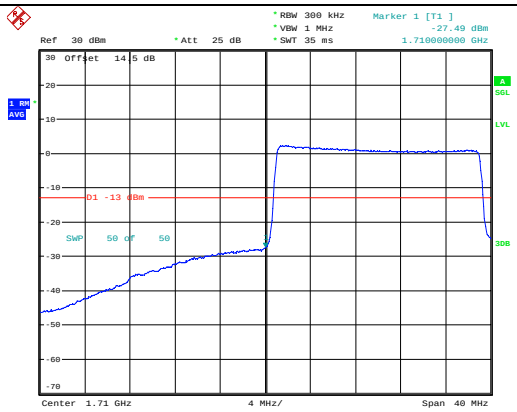
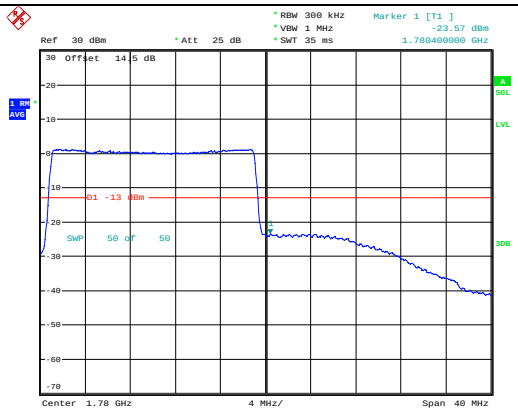
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest	 Date: 24.JUN.2023 10:33:17	 Date: 24.JUN.2023 10:33:28
Middle	 Date: 24.JUN.2023 10:33:45	 Date: 24.JUN.2023 10:33:56
Highest	 Date: 24.JUN.2023 10:34:13	 Date: 24.JUN.2023 10:34:25

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest	 Date: 24.JUN.2023 10:35:04	 Date: 24.JUN.2023 10:35:15
Middle	 Date: 24.JUN.2023 10:35:29	 Date: 24.JUN.2023 10:35:40
Highest	 Date: 24.JUN.2023 10:35:57	 Date: 24.JUN.2023 10:36:08

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		
QPSK 15MHz		
QPSK 20MHz		

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		
16QAM 15MH		
16QAM 20MH		

4.15 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	26YR-1	Test Date:	2023/6/20-2023/6/26
Test Site:	RF	Test Mode:	Transmitting
Tester:	Arthur Su/ Claire Liu	Test Result:	**Pass**

Environmental Conditions:					
Temperature: (℃)	24.8-26.3	Relative Humidity: (%)	52-64	ATM Pressure: (kPa)	99.7-100.8

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2022-07-15	2023-07-14
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100003	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2022-07-15	2023-07-14
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2023-03-31	2024-03-30
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A
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	665.5	680.5	695.5
10MHz	668	680.5	693
15MHz	670.5	680.5	690.5
20MHz	673	680.5	688

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	25.25	25.14	25.05	20.61	34.77
	RB1#13	25.36	25.24	25.17		
	RB1#24	25.27	25.07	25.04		
	RB15#0	24.24	24.09	24.1		
	RB15#10	24.25	24.21	24.15		
	RB25#0	24.25	24.19	24.11		
5MHz 16QAM	RB1#0	24.32	24.31	24.1	19.7	34.77
	RB1#13	24.31	24.45	24.2		
	RB1#24	24.29	24.3	24.11		
	RB15#0	23.21	23.13	23.03		
	RB15#10	23.2	23.27	23.07		
	RB25#0	23.25	23.13	23.14		
10MHz QPSK	RB1#0	25.34	25.18	25.21	20.76	34.77
	RB1#25	25.51	25.29	25.3		
	RB1#49	25.31	25.15	25.18		
	RB25#0	24.43	24.22	24.3		
	RB25#25	24.34	24.37	24.27		
	RB50#0	24.36	24.26	24.22		
10MHz 16QAM	RB1#0	24.25	24.42	24.11	19.75	34.77
	RB1#25	24.36	24.5	24.21		
	RB1#49	24.2	24.35	24.08		
	RB25#0	23.46	23.2	23.3		
	RB25#25	23.37	23.35	23.36		
	RB50#0	23.38	23.26	23.25		
15MHz QPSK	RB1#0	25.35	25.21	25.13	20.65	34.77
	RB1#38	25.4	25.23	25.17		
	RB1#74	25.2	25.13	25.06		
	RB36#0	24.44	24.17	24.2		
	RB36#39	24.33	24.24	24.27		
	RB75#0	24.4	24.19	24.21		
15MHz 16QAM	RB1#0	24.23	24.05	23.98	19.48	34.77
	RB1#38	24.23	24.13	24.1		
	RB1#74	24.09	23.97	24		
	RB36#0	23.35	23.07	23.14		
	RB36#39	23.27	23.16	23.19		
	RB75#0	23.35	23.16	23.21		
20MHz QPSK	RB1#0	25.22	25.08	24.99	20.74	34.77
	RB1#50	25.49	25.3	25.28		
	RB1#99	25.05	24.97	24.84		

	RB50#0	24.38	23.99	24.07		
	RB50#50	24.36	24.15	24.23		
	RB100#0	24.35	24.09	24.13		
20MHz 16QAM	RB1#0	24.09	24.12	24.17	19.72	34.77
	RB1#50	24.47	24.34	24.44		
	RB1#99	23.89	24.07	24.06		
	RB50#0	23.34	22.97	23.1		
	RB50#50	23.37	23.17	23.24		
	RB100#0	23.37	23.1	23.14		
Note: ERP= Conducted Power(dBm) - L_C(dB) + G_T(dBd) G_T(dBd)=G_T(dBi)-2.15						
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	
20MHz QPSK	RB1#0	10.13	10.99	11.06	13
	RB100#0	6.47	6.6	6.31	13
20MHz 16QAM	RB1#0	10.06	10.42	10.38	13
	RB100#0	7.28	7.31	7.15	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	4.52	4.52	4.52	5.12	5.2	5.18
5MHz 16QAM	4.54	4.54	4.52	5.16	5.18	5.2
10MHz QPSK	8.96	8.96	9	9.72	9.88	10
10MHz 16QAM	8.96	8.96	8.96	9.84	9.88	9.84
15MHz QPSK	13.68	13.5	13.56	19.68	15.3	15.06
15MHz 16QAM	13.56	13.5	13.62	15.36	14.94	15.24
20MHz QPSK	18	18	17.92	19.76	19.44	19.52
20MHz 16QAM	18	18	18	19.76	19.68	19.44
Note: The test plots please refer to the Plots of Occupied Bandwidth						

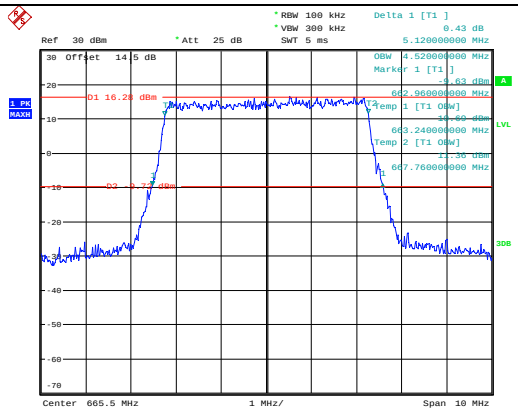
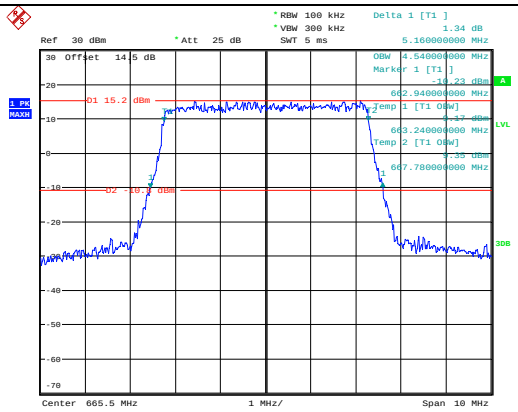
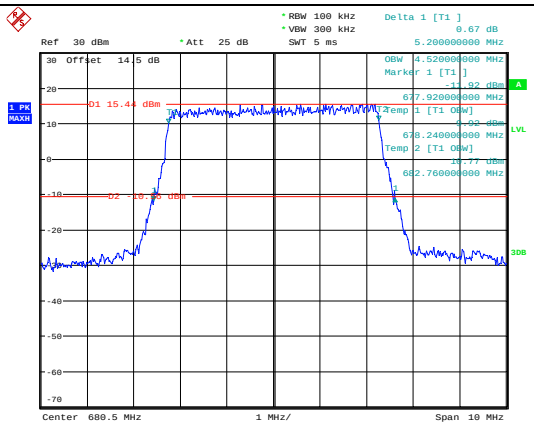
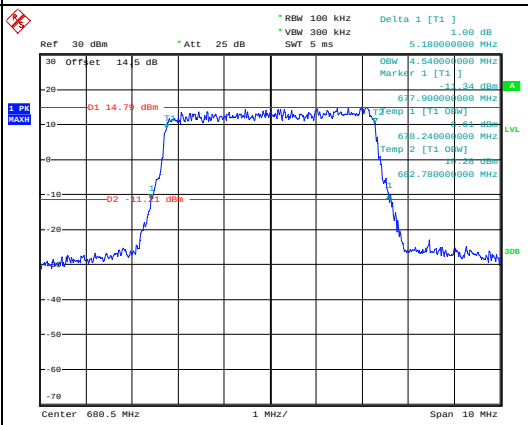
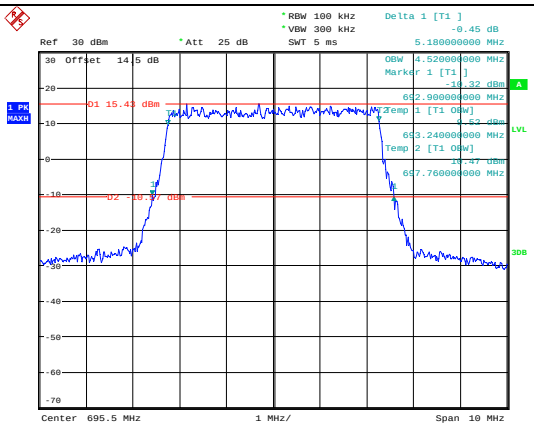
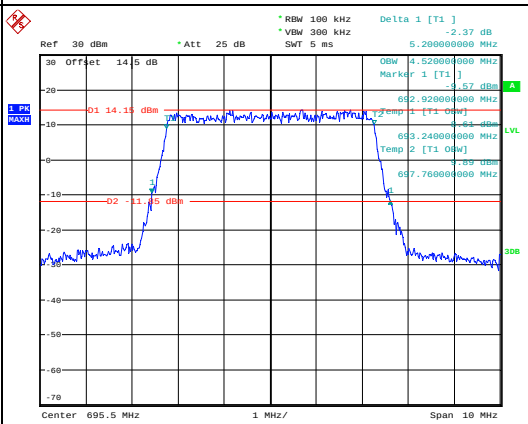
FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal	
Result:	**Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

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.**

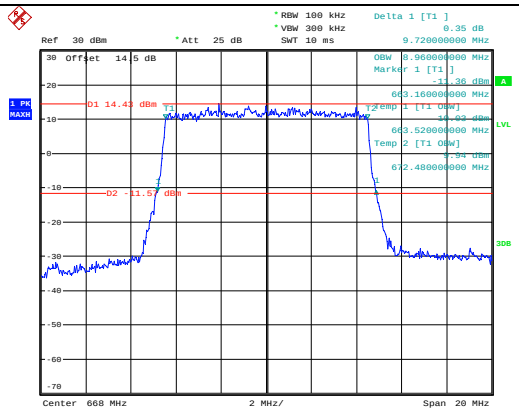
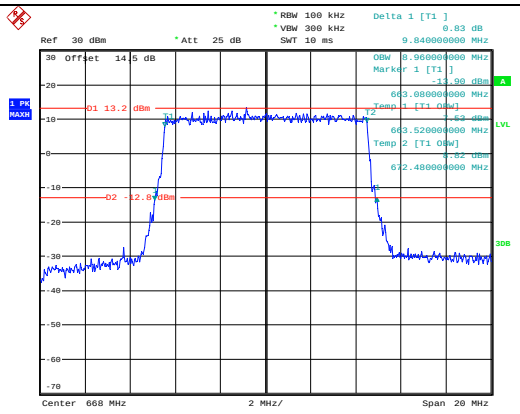
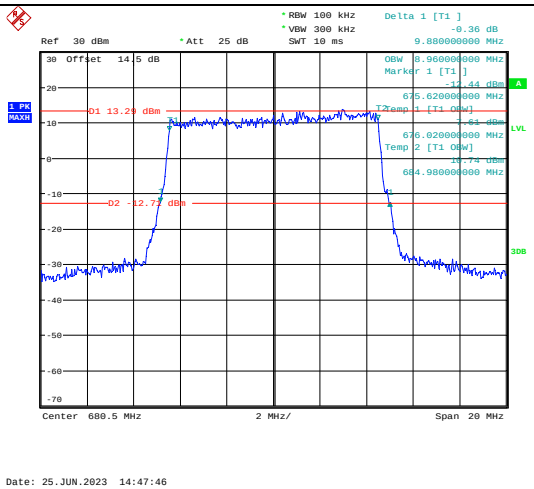
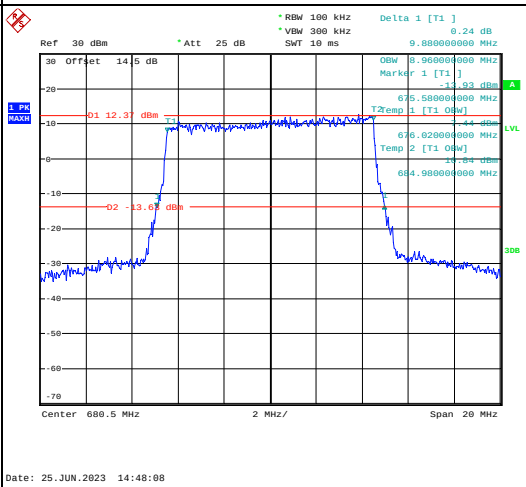
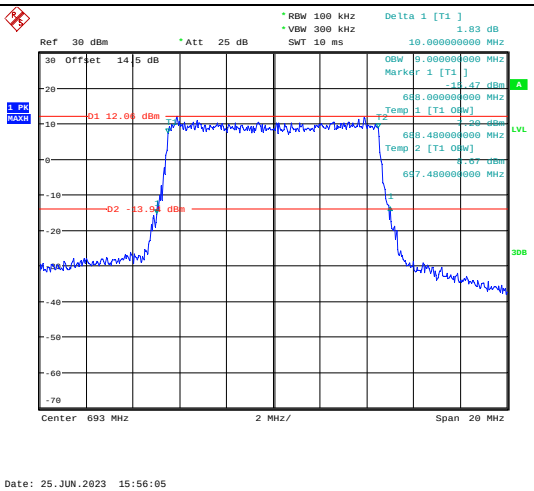
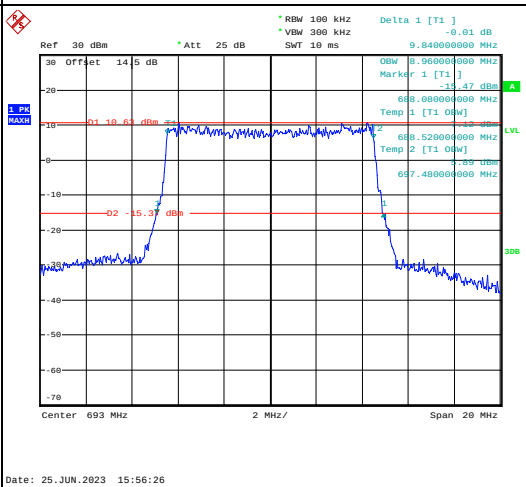
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (℃)	Voltage (V_{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	664.029	663.00	696.973	698.00
	-20	3.8	664.026	663.00	696.968	698.00
	-10	3.8	664.028	663.00	696.983	698.00
	0	3.8	664.025	663.00	696.968	698.00
	10	3.8	664.037	663.00	696.968	698.00
	20	3.8	664.040	663.00	696.960	698.00
	30	3.8	664.029	663.00	696.973	698.00
	40	3.8	664.012	663.00	696.985	698.00
	50	3.8	664.036	663.00	696.970	698.00
Frequency Stability vs. Voltage	20	3.65	664.034	663.00	696.978	698.00
	20	4.35	664.030	663.00	696.973	698.00
					Result:	**Pass**

Test Mode:	20M 16QAM	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature(℃)	Voltage(V_{DC})	Lower Edge(MHz)		Upper Edge(MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	664.029	663.00	697.047	698.00
	-20	3.8	664.031	663.00	697.058	698.00
	-10	3.8	664.025	663.00	697.048	698.00
	0	3.8	664.026	663.00	697.065	698.00
	10	3.8	664.021	663.00	697.048	698.00
	20	3.8	664.040	663.00	697.040	698.00
	30	3.8	664.015	663.00	697.064	698.00
	40	3.8	664.032	663.00	697.045	698.00
	50	3.8	664.014	663.00	697.053	698.00
Frequency Stability vs. Voltage	20	3.65	664.011	663.00	697.046	698.00
	20	4.35	664.037	663.00	697.068	698.00
					Result:	**Pass**

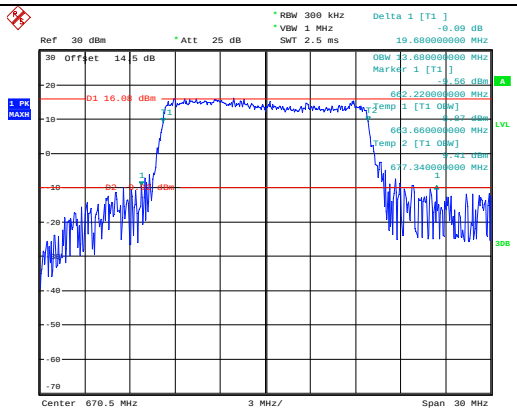
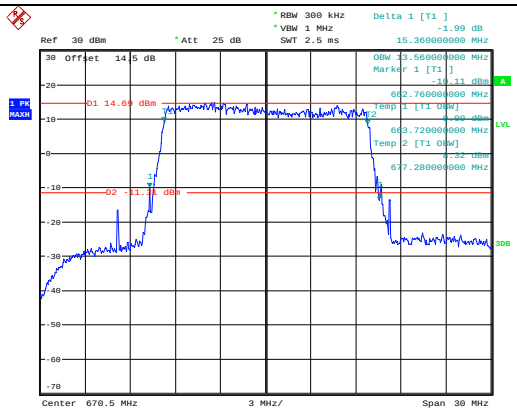
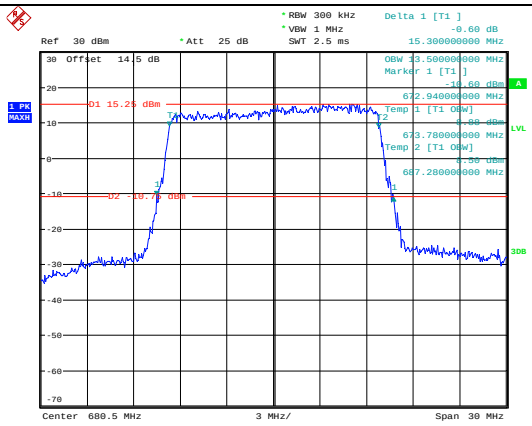
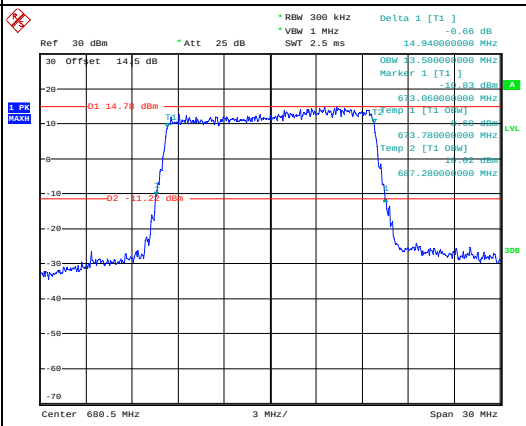
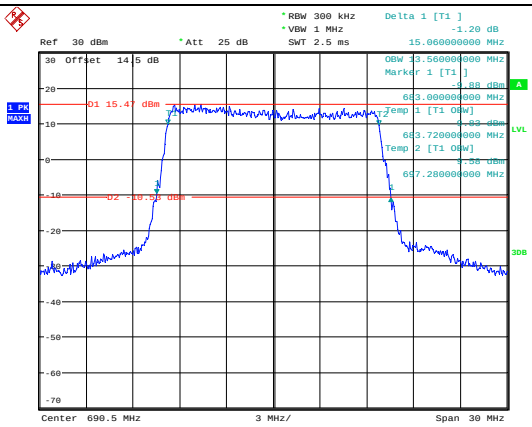
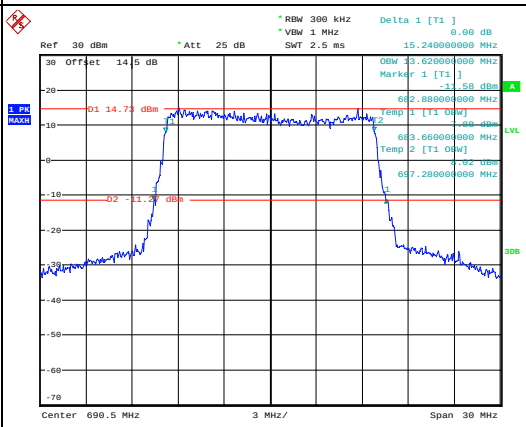
Test Plots(Note: The 14.5 dB is the Insertion loss of the RF cable and Power Splitter, which was offset into the Spectrum Analyzer):

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

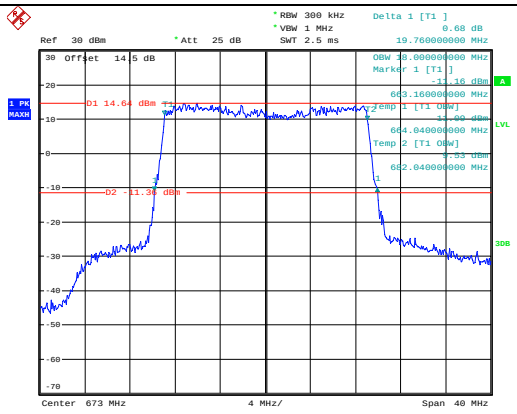
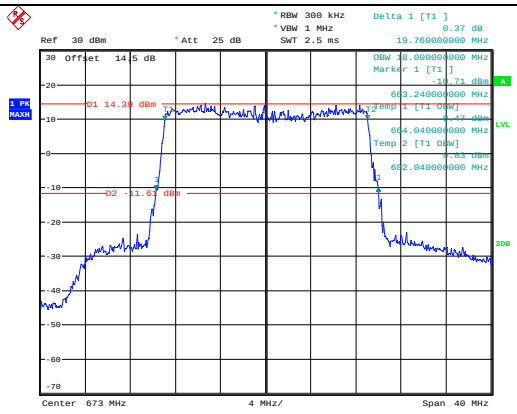
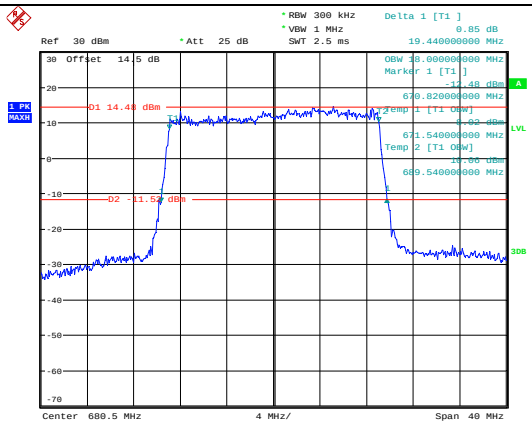
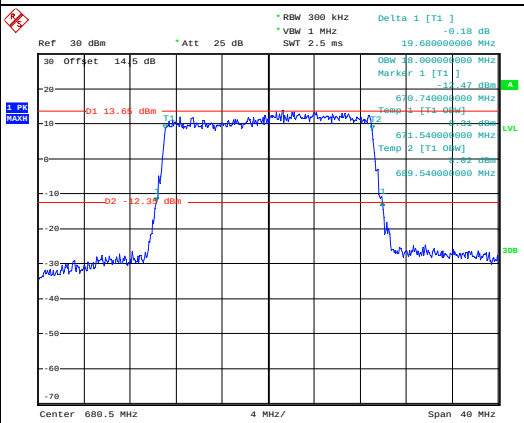
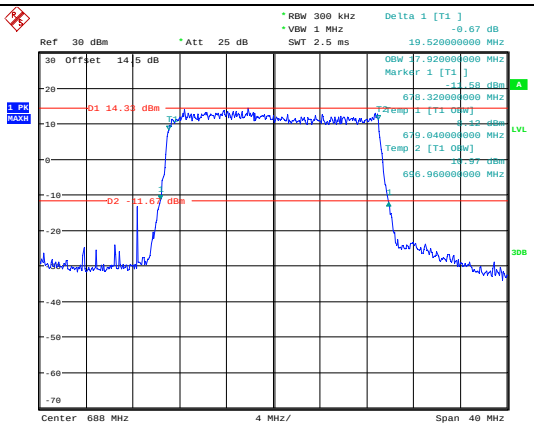
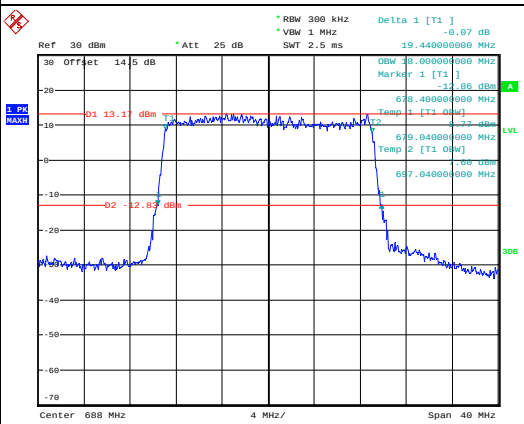
Occupied Bandwidth

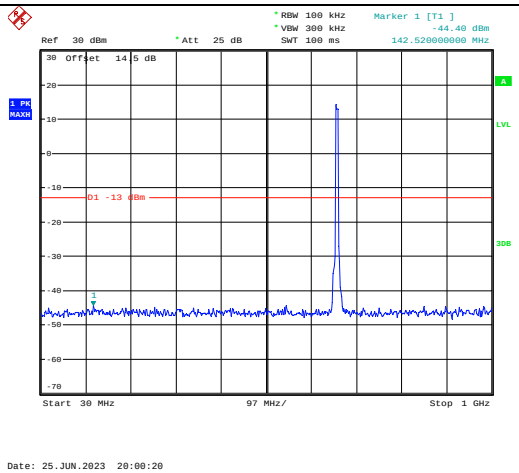
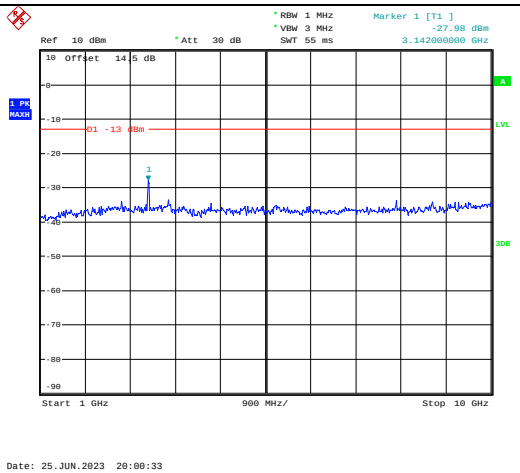
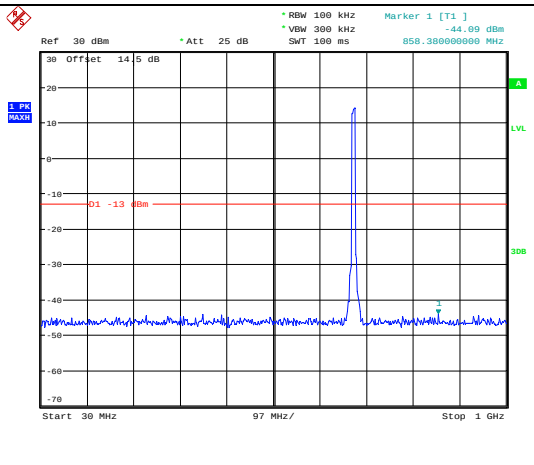
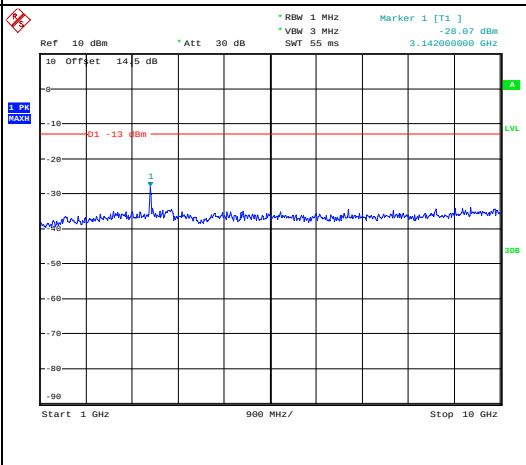
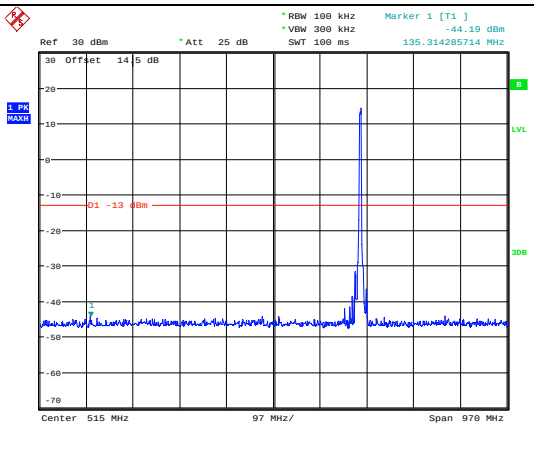
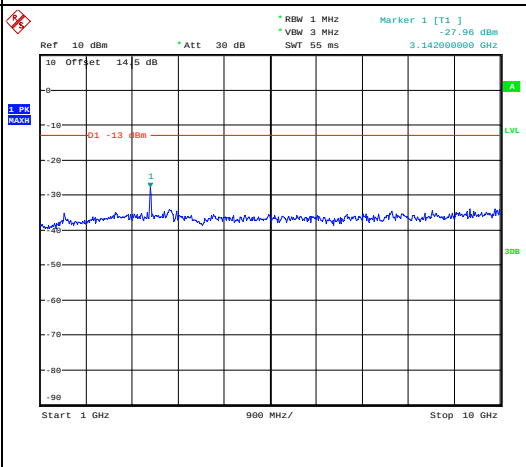
Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Occupied Bandwidth

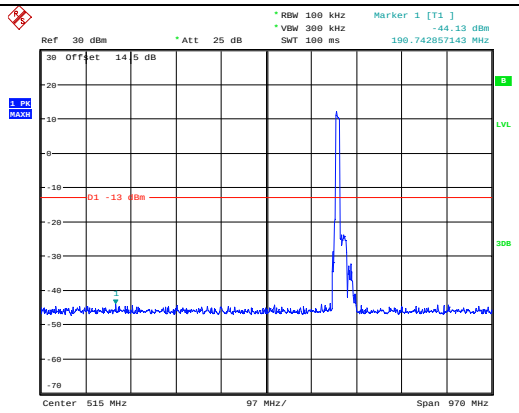
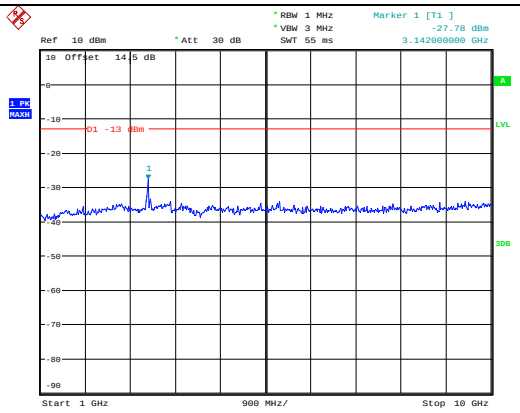
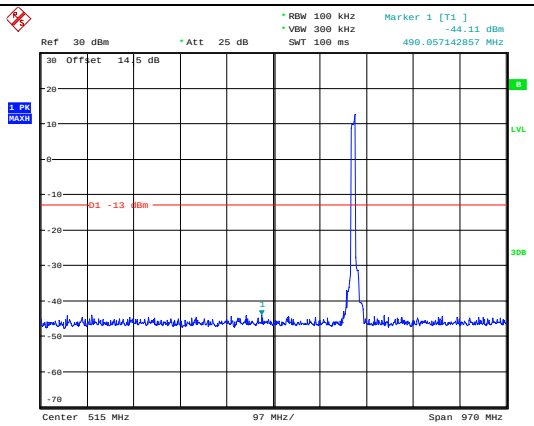
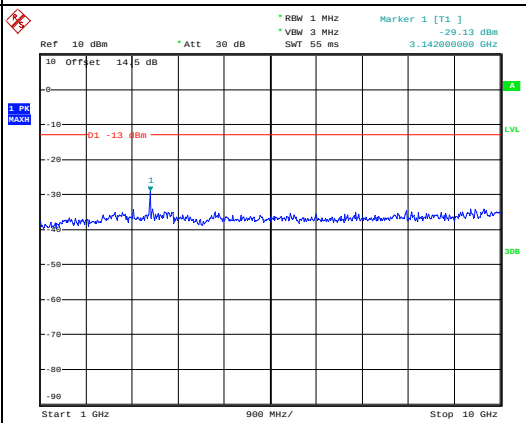
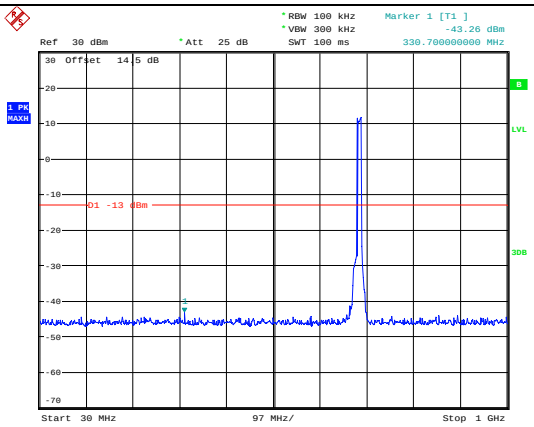
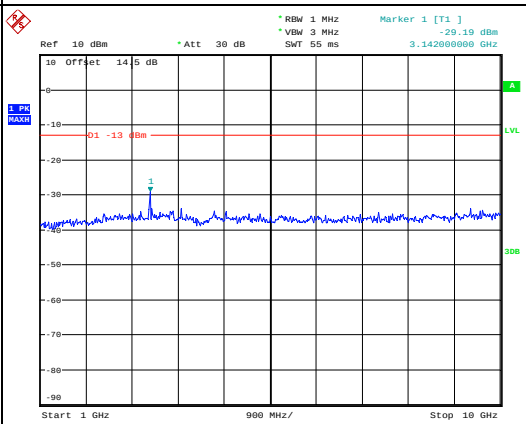
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

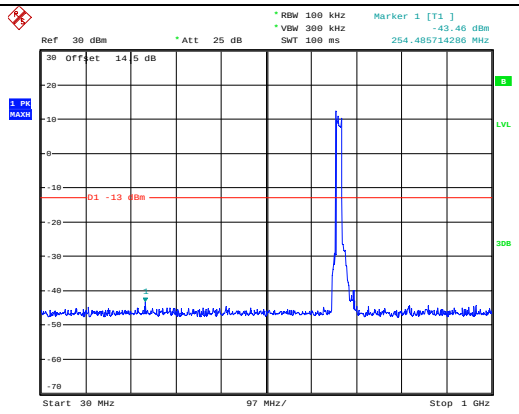
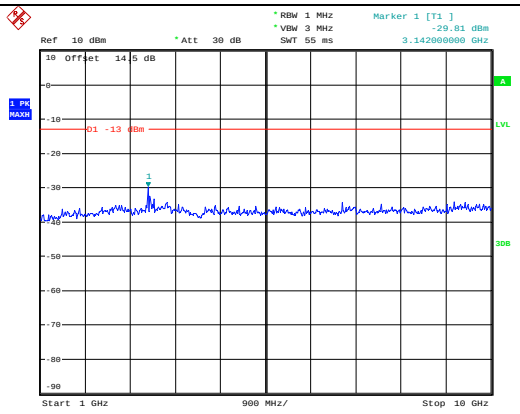
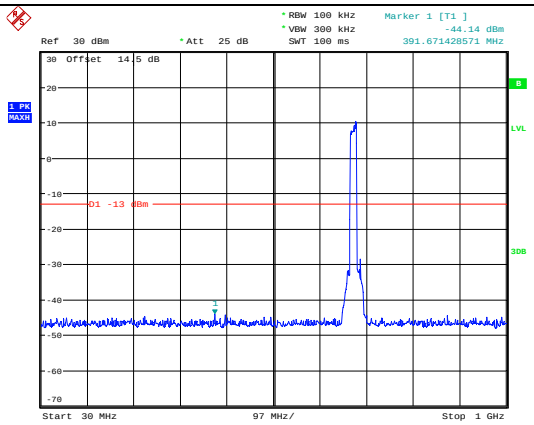
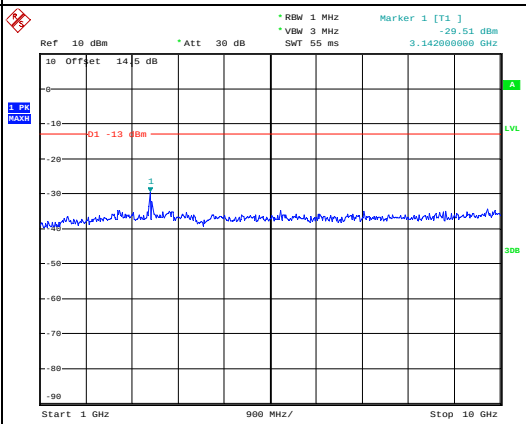
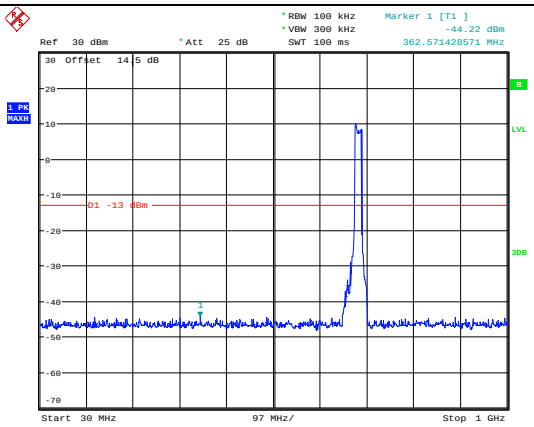
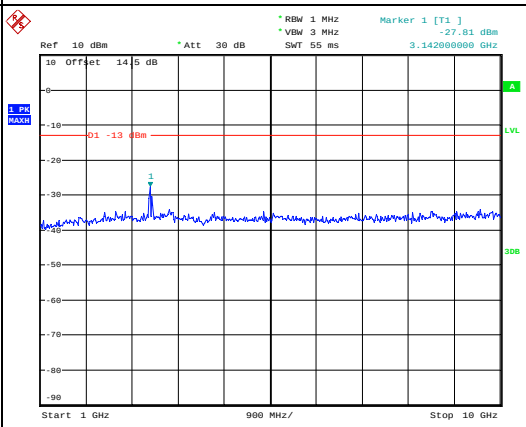
Occupied Bandwidth

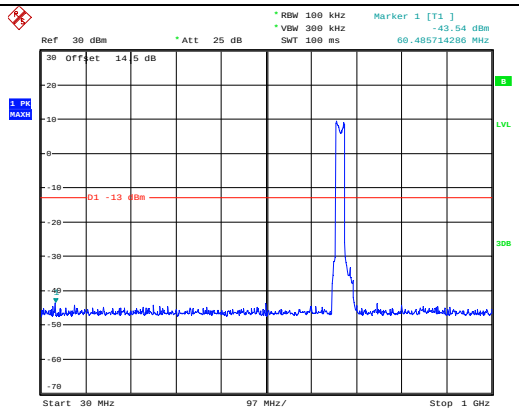
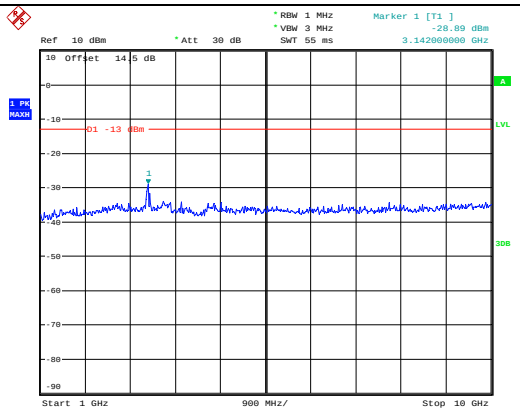
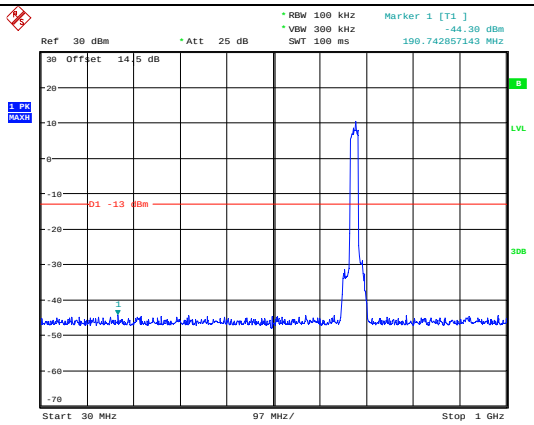
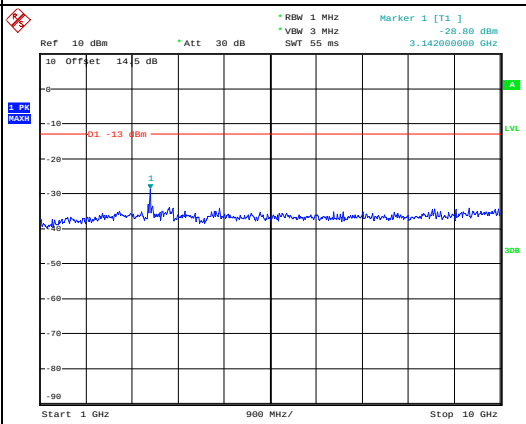
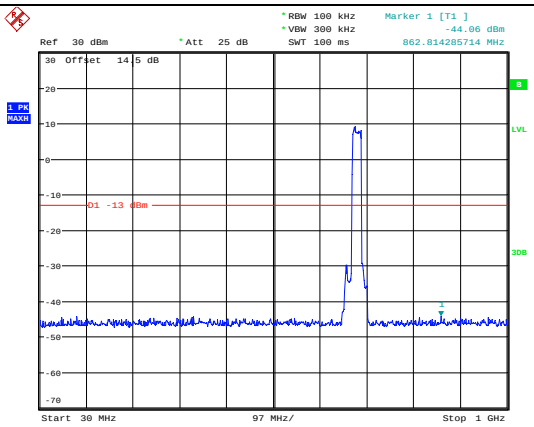
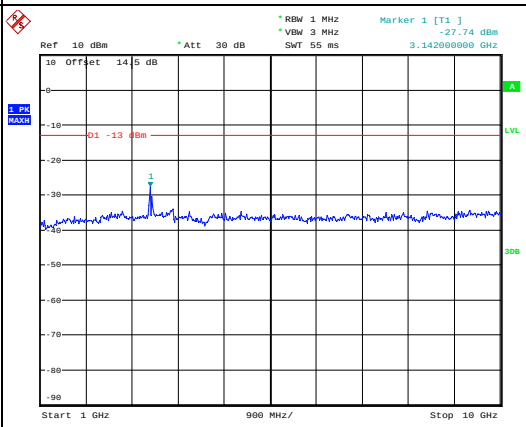
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

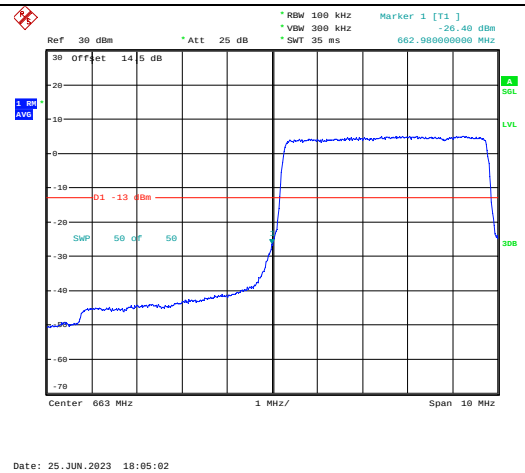
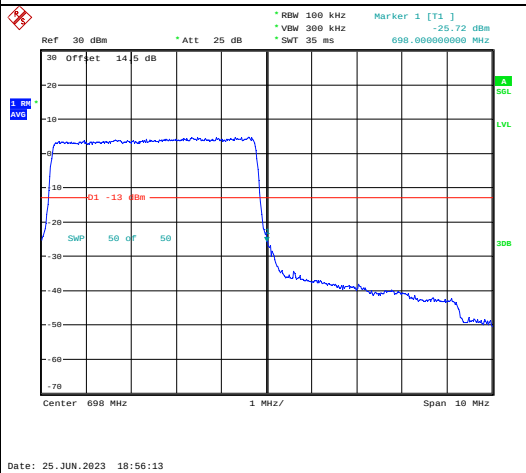
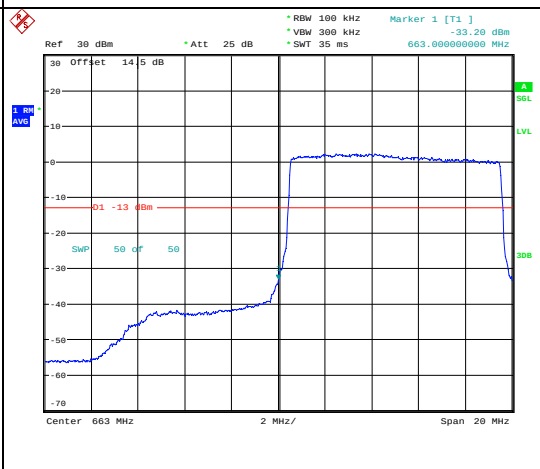
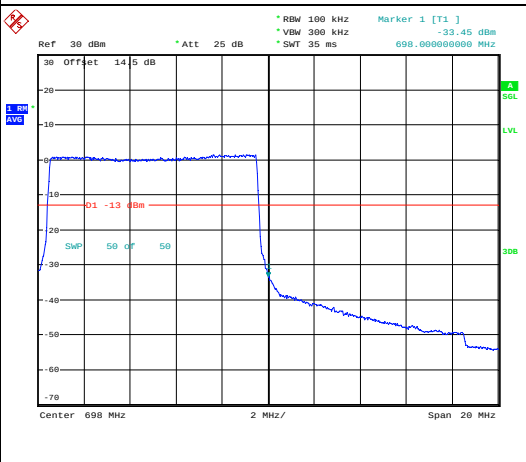
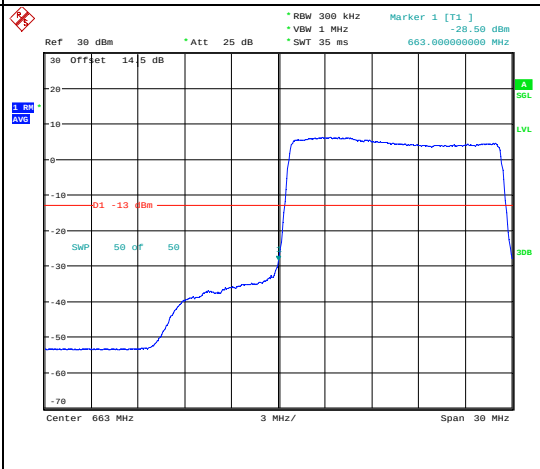
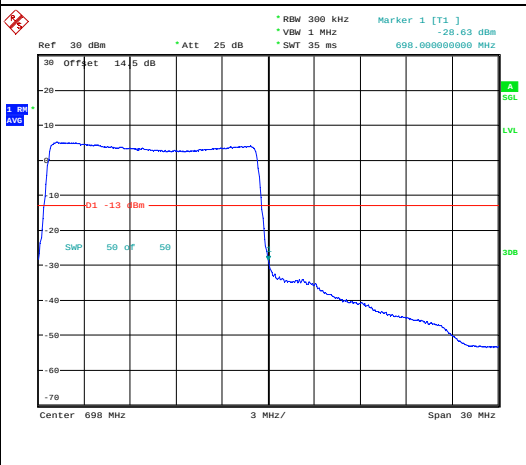
Spurious Emissions at Antenna Terminal		
Channel	**5MHz Bandwidth QPSK**	
Lowest	 Date: 25.JUN.2023 20:00:20	 Date: 25.JUN.2023 20:00:33
Middle	 Date: 25.JUN.2023 20:01:09	 Date: 25.JUN.2023 20:01:22
Highest	 Date: 25.JUN.2023 20:14:38	 Date: 25.JUN.2023 20:02:17

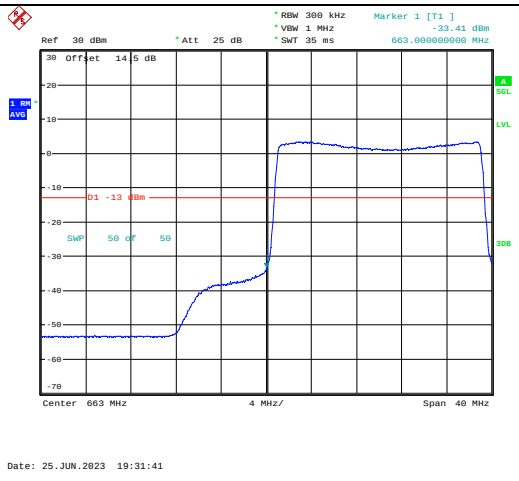
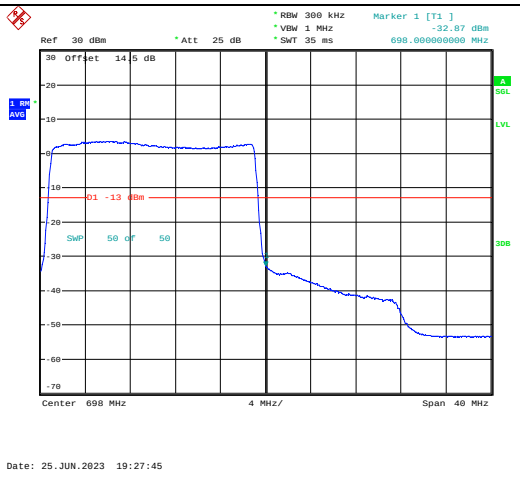
Spurious Emissions at Antenna Terminal

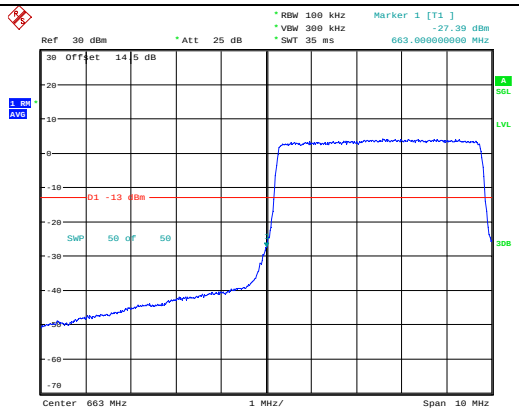
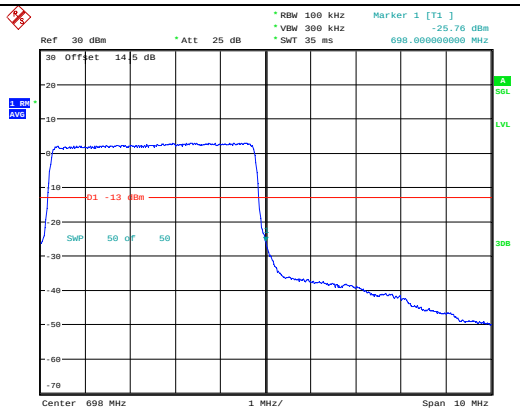
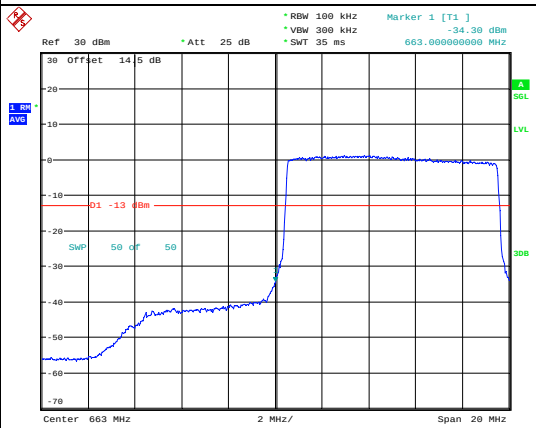
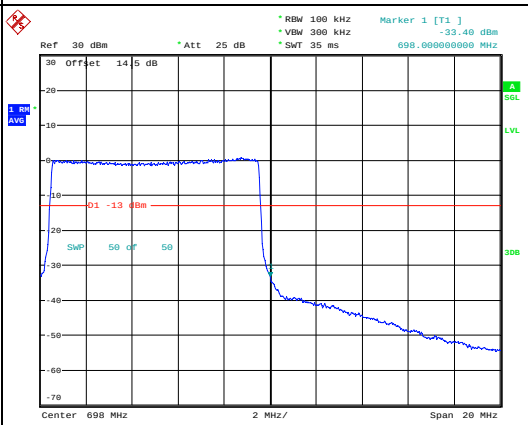
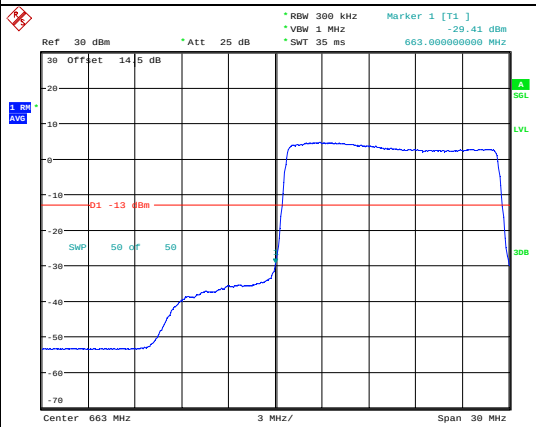
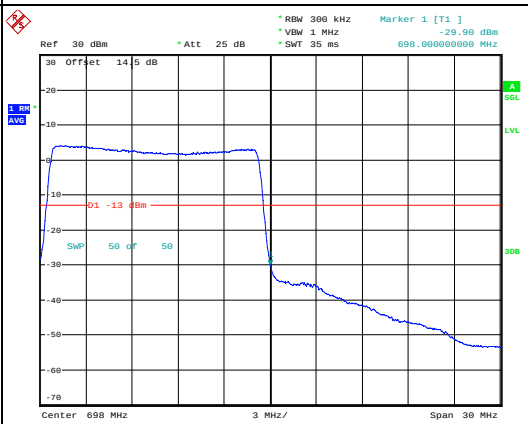
Channel	10MHz Bandwidth QPSK	
Lowest		
Middle		
Highest		

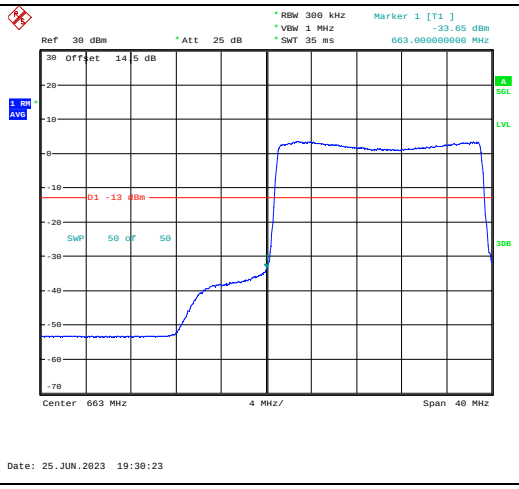
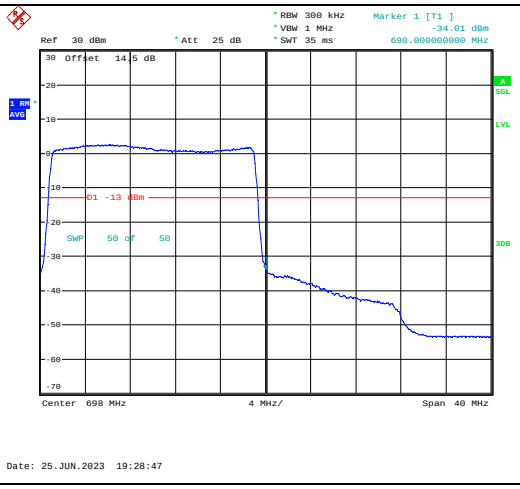
Spurious Emissions at Antenna Terminal		
Channel	**15MHz Bandwidth QPSK**	
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal		
Channel	**20MHz Bandwidth QPSK**	
Lowest	 Date: 25.JUN.2023 20:33:52	 Date: 25.JUN.2023 20:34:17
Middle	 Date: 25.JUN.2023 20:43:23	 Date: 25.JUN.2023 20:43:51
Highest	 Date: 25.JUN.2023 20:46:45	 Date: 25.JUN.2023 20:47:05

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 Radiated Spurious Emissions

Serial Number:	26YR-1	Test Date:	2023/6/19-2023/6/25
Test Site:	966-1,966-2	Test Mode:	Transmitting
Tester:	coco Tian,Carl Xue	Test Result:	Pass

Environmental Conditions:					
Temperature: (℃)	24-27.3	Relative Humidity: (%)	60-65	ATM Pressure: (kPa)	100.1-100.5

Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/7/15	2023/7/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/7/17	2023/7/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/7/17	2023/7/16
Sonoma	Amplifier	310N	186165	2022/7/17	2023/7/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/7/17	2023/7/16
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
PASTERNACK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNACK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/09/16	2023/09/15
PASTERNACK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNACK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

**** 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.

Note: The device can be mounted in multiple orientations, test was performed with X, Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it`s data was recorded.

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								
729.52	H	20.76	-51.96	0.00	0.53	-52.49	-13.00	39.49
694.57	V	20.85	-49.17	0.00	0.55	-49.72	-13.00	36.72
1648.400	H	35.47	-68.86	8.68	0.80	-60.98	-13.00	47.98
1648.400	V	37.64	-66.77	8.68	0.80	-58.89	-13.00	45.89
2472.600	H	34.28	-66.50	9.38	1.00	-58.12	-13.00	45.12
2472.600	V	33.97	-66.76	9.38	1.00	-58.38	-13.00	45.38
3296.800	H	37.16	-59.52	10.32	1.15	-50.35	-13.00	37.35
3296.800	V	36.64	-59.80	10.32	1.15	-50.63	-13.00	37.63
GSM 850 Frequency:836.6MHz								
719.37	H	20.87	-52.06	0.00	0.49	-52.55	-13.00	39.55
46.31	V	21.20	-45.27	-18.52	0.12	-63.91	-13.00	50.91
1673.200	H	36.94	-67.37	8.71	0.85	-59.51	-13.00	46.51
1673.200	V	36.48	-67.93	8.71	0.85	-60.07	-13.00	47.07
2509.800	H	33.52	-67.09	9.42	1.01	-58.68	-13.00	45.68
2509.800	V	34.07	-66.55	9.42	1.01	-58.14	-13.00	45.14
3346.400	H	36.88	-60.29	10.34	1.16	-51.11	-13.00	38.11
3346.400	V	36.19	-60.84	10.34	1.16	-51.66	-13.00	38.66
GSM 850 Frequency:848.8MHz								
677.78	H	21.22	-52.22	0.00	0.51	-52.73	-13.00	39.73
46.15	V	21.34	-45.00	-18.67	0.12	-63.79	-13.00	50.79
1697.600	H	36.74	-67.55	8.74	0.90	-59.71	-13.00	46.71
1697.600	V	36.65	-67.77	8.74	0.90	-59.93	-13.00	46.93
2546.400	H	34.12	-66.21	9.47	1.01	-57.75	-13.00	44.75
2546.400	V	34.25	-66.03	9.47	1.01	-57.57	-13.00	44.57
3395.200	H	35.48	-62.21	10.36	1.19	-53.04	-13.00	40.04
3395.200	V	35.72	-61.94	10.36	1.19	-52.77	-13.00	39.77

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								
131.29	H	42.77	-69.44	0.00	0.21	-69.65	-13.00	56.65
45.69	V	42.82	-54.16	-19.12	0.12	-73.40	-13.00	60.40
3700.400	H	35.42	-61.90	10.60	1.25	-52.55	-13.00	39.55
3700.400	V	34.16	-63.14	10.60	1.25	-53.79	-13.00	40.79
5550.600	H	34.23	-59.03	11.44	1.49	-49.08	-13.00	36.08
5550.600	V	34.19	-58.91	11.44	1.49	-48.96	-13.00	35.96
GSM 1900 Frequency:1880MHz								
141.82	H	42.57	-69.67	0.00	0.21	-69.88	-13.00	56.88
46.01	V	42.88	-54.42	-18.81	0.12	-73.35	-13.00	60.35
3760.000	H	34.76	-61.65	10.66	1.24	-52.23	-13.00	39.23
3760.000	V	34.87	-61.42	10.66	1.24	-52.00	-13.00	39.00
5640.000	H	33.63	-59.82	11.33	1.54	-50.03	-13.00	37.03
5640.000	V	33.42	-59.91	11.33	1.54	-50.12	-13.00	37.12
GSM 1900 Frequency:1909.8MHz								
129.93	H	42.17	-70.02	0.00	0.21	-70.23	-13.00	57.23
45.53	V	43.05	-53.77	-19.28	0.12	-73.17	-13.00	60.17
3819.600	H	35.49	-60.37	10.72	1.29	-50.94	-13.00	37.94
3819.600	V	35.37	-60.35	10.72	1.29	-50.92	-13.00	37.92
5729.400	H	34.07	-59.41	11.22	1.59	-49.78	-13.00	36.78
5729.400	V	33.53	-59.83	11.22	1.59	-50.20	-13.00	37.20

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								
143.32	H	42.44	-69.74	0.00	0.22	-69.96	-13.00	56.96
45.37	V	42.64	-54.02	-19.44	0.12	-73.58	-13.00	60.58
3704.800	H	35.12	-62.14	10.60	1.25	-52.79	-13.00	39.79
3704.800	V	34.61	-62.62	10.60	1.25	-53.27	-13.00	40.27
5557.200	H	34.13	-59.15	11.43	1.49	-49.21	-13.00	36.21
5557.200	V	34.01	-59.12	11.43	1.49	-49.18	-13.00	36.18
WCDMA Band II, Frequency:1880 MHz								
141.28	H	42.42	-69.84	0.00	0.22	-70.06	-13.00	57.06
45.69	V	42.33	-54.65	-19.12	0.12	-73.89	-13.00	60.89
3760.000	H	34.36	-62.05	10.66	1.24	-52.63	-13.00	39.63
3760.000	V	34.22	-62.07	10.66	1.24	-52.65	-13.00	39.65
5640.000	H	33.64	-59.81	11.33	1.54	-50.02	-13.00	37.02
5640.000	V	33.71	-59.62	11.33	1.54	-49.83	-13.00	36.83
WCDMA Band II, Frequency:1907.6MHz								
133.61	H	42.58	-69.65	0.00	0.22	-69.87	-13.00	56.87
46.34	V	42.38	-55.24	-18.49	0.12	-73.85	-13.00	60.85
3815.200	H	34.19	-61.66	10.72	1.29	-52.23	-13.00	39.23
3815.200	V	34.23	-61.46	10.72	1.29	-52.03	-13.00	39.03
5722.800	H	33.64	-59.85	11.23	1.58	-50.20	-13.00	37.20
5722.800	V	34.57	-58.78	11.23	1.58	-49.13	-13.00	36.13

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								
141.42	H	42.52	-69.73	0.00	0.22	-69.95	-13.00	56.95
44.60	V	42.26	-53.52	-20.33	0.12	-73.97	-13.00	60.97
3424.800	H	34.62	-63.15	10.37	1.17	-53.95	-13.00	40.95
3424.800	V	33.57	-64.17	10.37	1.17	-54.97	-13.00	41.97
5137.200	H	35.17	-58.45	11.28	1.46	-48.63	-13.00	35.63
5137.200	V	34.69	-58.81	11.28	1.46	-48.99	-13.00	35.99
Frequency: 1732.6 MHz								
138.19	H	42.73	-69.55	0.00	0.22	-69.77	-13.00	56.77
42.31	V	42.39	-50.42	-23.35	0.12	-73.89	-13.00	60.89
3465.200	H	34.37	-63.44	10.39	1.15	-54.20	-13.00	41.20
3465.200	V	34.16	-63.61	10.39	1.15	-54.37	-13.00	41.37
5197.800	H	35.34	-58.79	11.32	1.44	-48.91	-13.00	35.91
5197.800	V	34.79	-59.19	11.32	1.44	-49.31	-13.00	36.31
Frequency: 1752.6 MHz								
142.68	H	42.17	-70.04	0.00	0.22	-70.26	-13.00	57.26
44.94	V	42.64	-53.58	-19.88	0.12	-73.58	-13.00	60.58
3505.200	H	35.31	-62.52	10.41	1.18	-53.29	-13.00	40.29
3505.200	V	34.61	-63.16	10.41	1.18	-53.93	-13.00	40.93
5257.800	H	33.79	-59.94	11.35	1.47	-50.06	-13.00	37.06
5257.800	V	34.07	-59.44	11.35	1.47	-49.56	-13.00	36.56

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								
697.00	H	20.64	-52.70	0.00	0.55	-53.25	-13.00	40.25
46.79	V	20.97	-45.92	-18.05	0.12	-64.09	-13.00	51.09
1652.800	H	35.12	-69.21	8.68	0.81	-61.34	-13.00	48.34
1652.800	V	34.97	-69.44	8.68	0.81	-61.57	-13.00	48.57
2479.200	H	34.63	-66.13	9.39	1.01	-57.75	-13.00	44.75
2479.200	V	34.78	-65.95	9.39	1.01	-57.57	-13.00	44.57
3305.600	H	34.09	-62.64	10.32	1.15	-53.47	-13.00	40.47
3305.600	V	34.21	-62.29	10.32	1.15	-53.12	-13.00	40.12
WCDMA Band 5 Frequency:836.6MHz								
479.12	H	20.72	-55.54	0.00	0.41	-55.95	-13.00	42.95
716.66	V	21.02	-48.54	0.00	0.50	-49.04	-13.00	36.04
1673.200	H	35.75	-68.56	8.71	0.85	-60.70	-13.00	47.70
1673.200	V	34.69	-69.72	8.71	0.85	-61.86	-13.00	48.86
2509.800	H	36.42	-64.19	9.42	1.01	-55.78	-13.00	42.78
2509.800	V	34.26	-66.36	9.42	1.01	-57.95	-13.00	44.95
3346.400	H	35.67	-61.50	10.34	1.16	-52.32	-13.00	39.32
3346.400	V	34.85	-62.18	10.34	1.16	-53.00	-13.00	40.00
WCDMA Band 5 Frequency:846.6MHz								
673.01	H	21.16	-52.31	0.00	0.50	-52.81	-13.00	39.81
699.30	V	21.30	-48.63	0.00	0.55	-49.18	-13.00	36.18
1693.200	H	34.69	-69.61	8.73	0.89	-61.77	-13.00	48.77
1693.200	V	35.21	-69.21	8.73	0.89	-61.37	-13.00	48.37
2539.800	H	33.47	-66.91	9.46	1.01	-58.46	-13.00	45.46
2539.800	V	33.96	-66.38	9.46	1.01	-57.93	-13.00	44.93
3386.400	H	34.37	-63.22	10.35	1.18	-54.05	-13.00	41.05
3386.400	V	34.89	-62.65	10.35	1.18	-53.48	-13.00	40.48

LTE Bands:

(The Worst modulation and bandwidth were 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								
144.82	H	42.63	-69.50	0.00	0.23	-69.73	-13.00	56.73
46.50	V	42.41	-55.37	-18.33	0.12	-73.82	-13.00	60.82
3701.400	H	34.29	-63.02	10.60	1.25	-53.67	-13.00	40.67
3701.400	V	33.67	-63.62	10.60	1.25	-54.27	-13.00	41.27
5552.100	H	33.71	-59.56	11.44	1.49	-49.61	-13.00	36.61
5552.100	V	33.68	-59.42	11.44	1.49	-49.47	-13.00	36.47
QPSK, 1.4MHz, Frequency:1880 MHz								
147.92	H	42.28	-69.74	0.00	0.22	-69.96	-13.00	56.96
46.99	V	42.75	-55.51	-17.85	0.12	-73.48	-13.00	60.48
3760.000	H	34.62	-61.79	10.66	1.24	-52.37	-13.00	39.37
3760.000	V	33.27	-63.02	10.66	1.24	-53.60	-13.00	40.60
5640.000	H	34.35	-59.10	11.33	1.54	-49.31	-13.00	36.31
5640.000	V	33.97	-59.36	11.33	1.54	-49.57	-13.00	36.57
QPSK, 1.4MHz, Frequency:1909.3 MHz								
140.34	H	42.14	-70.15	0.00	0.22	-70.37	-13.00	57.37
46.34	V	42.66	-54.96	-18.49	0.12	-73.57	-13.00	60.57
3818.600	H	34.16	-61.70	10.72	1.29	-52.27	-13.00	39.27
3818.600	V	33.21	-62.50	10.72	1.29	-53.07	-13.00	40.07
5727.900	H	33.43	-60.05	11.23	1.59	-50.41	-13.00	37.41
5727.900	V	35.69	-57.67	11.23	1.59	-48.03	-13.00	35.03

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								
138.88	H	42.68	-69.61	0.00	0.22	-69.83	-13.00	56.83
44.12	V	42.30	-52.86	-20.96	0.12	-73.94	-13.00	60.94
3421.400	H	34.06	-63.70	10.37	1.17	-54.50	-13.00	41.50
3421.400	V	33.74	-63.99	10.37	1.17	-54.79	-13.00	41.79
5132.100	H	33.58	-59.99	11.28	1.47	-50.18	-13.00	37.18
5132.100	V	33.49	-59.97	11.28	1.47	-50.16	-13.00	37.16
1.4MHz QPSK, Frequency: 1732.5 MHz								
129.92	H	42.81	-69.38	0.00	0.21	-69.59	-13.00	56.59
46.02	V	42.45	-54.86	-18.80	0.12	-73.78	-13.00	60.78
3465.000	H	33.46	-64.35	10.39	1.15	-55.11	-13.00	42.11
3465.000	V	33.65	-64.12	10.39	1.15	-54.88	-13.00	41.88
5197.500	H	33.27	-60.86	11.32	1.44	-50.98	-13.00	37.98
5197.500	V	32.16	-61.82	11.32	1.44	-51.94	-13.00	38.94
1.4MHz QPSK, Frequency: 1754.3 MHz								
147.90	H	42.56	-69.46	0.00	0.22	-69.68	-13.00	56.68
44.85	V	42.14	-53.97	-20.00	0.12	-74.09	-13.00	61.09
3508.600	H	34.86	-62.96	10.41	1.19	-53.74	-13.00	40.74
3508.600	V	33.97	-63.79	10.41	1.19	-54.57	-13.00	41.57
5262.900	H	33.27	-60.43	11.36	1.47	-50.54	-13.00	37.54
5262.900	V	33.69	-59.78	11.36	1.47	-49.89	-13.00	36.89

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								
727.29	H	20.65	-52.12	0.00	0.52	-52.64	-13.00	39.64
729.35	V	21.45	-47.83	0.00	0.53	-48.36	-13.00	35.36
1649.400	H	34.62	-69.71	8.68	0.80	-61.83	-13.00	48.83
1649.400	V	34.09	-70.32	8.68	0.80	-62.44	-13.00	49.44
2474.100	H	33.76	-67.02	9.38	1.00	-58.64	-13.00	45.64
2474.100	V	33.81	-66.92	9.38	1.00	-58.54	-13.00	45.54
3298.800	H	33.45	-63.23	10.32	1.15	-54.06	-13.00	41.06
3298.800	V	33.67	-62.77	10.32	1.15	-53.60	-13.00	40.60
QPSK, 1.4MHz, Frequency: 836.5 MHz								
709.41	H	20.98	-52.15	0.00	0.52	-52.67	-13.00	39.67
45.66	V	21.31	-44.60	-19.15	0.12	-63.87	-13.00	50.87
1673.000	H	34.26	-70.05	8.71	0.85	-62.19	-13.00	49.19
1673.000	V	34.15	-70.26	8.71	0.85	-62.40	-13.00	49.40
2509.500	H	34.37	-66.24	9.42	1.01	-57.83	-13.00	44.83
2509.500	V	34.18	-66.44	9.42	1.01	-58.03	-13.00	45.03
3346.000	H	33.96	-63.20	10.34	1.16	-54.02	-13.00	41.02
3346.000	V	33.87	-63.15	10.34	1.16	-53.97	-13.00	40.97
QPSK, 1.4MHz, Frequency: 848.3 MHz								
661.41	H	21.04	-52.49	0.00	0.51	-53.00	-13.00	40.00
716.69	V	21.39	-48.17	0.00	0.50	-48.67	-13.00	35.67
1696.600	H	33.64	-70.65	8.74	0.89	-62.80	-13.00	49.80
1696.600	V	33.75	-70.67	8.74	0.89	-62.82	-13.00	49.82
2544.900	H	33.94	-66.40	9.47	1.01	-57.94	-13.00	44.94
2544.900	V	33.88	-66.42	9.47	1.01	-57.96	-13.00	44.96
3393.200	H	33.68	-63.99	10.36	1.19	-54.82	-13.00	41.82
3393.200	V	34.02	-63.61	10.36	1.19	-54.44	-13.00	41.44

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)			
QPSK, 1.4MHz, Frequency: 699.7 MHz								
570.90	H	20.87	-53.56	0.00	0.46	-54.02	-13.00	41.02
422.35	V	20.91	-53.75	0.00	0.39	-54.14	-13.00	41.14
1399.400	H	34.62	-69.08	8.22	0.71	-61.57	-13.00	48.57
1399.400	V	33.59	-70.16	8.22	0.71	-62.65	-13.00	49.65
2099.100	H	33.78	-68.10	9.16	0.91	-59.85	-13.00	46.85
2099.100	V	33.91	-67.92	9.16	0.91	-59.67	-13.00	46.67
2798.800	H	33.63	-66.30	9.88	1.04	-57.46	-13.00	44.46
2798.800	V	34.01	-65.79	9.88	1.04	-56.95	-13.00	43.95
QPSK, 1.4MHz, Frequency:707.5 MHz								
501.50	H	20.62	-55.18	0.00	0.45	-55.63	-13.00	42.63
46.63	V	21.01	-45.74	-18.20	0.12	-64.06	-13.00	51.06
1415.000	H	34.62	-69.05	8.26	0.72	-61.51	-13.00	48.51
1415.000	V	33.41	-70.31	8.26	0.72	-62.77	-13.00	49.77
2122.500	H	33.68	-68.31	9.17	0.92	-60.06	-13.00	47.06
2122.500	V	33.75	-68.22	9.17	0.92	-59.97	-13.00	46.97
2830.000	H	34.62	-65.18	9.93	1.06	-56.31	-13.00	43.31
2830.000	V	33.79	-65.94	9.93	1.06	-57.07	-13.00	44.07
QPSK, 1.4MHz, Frequency: 715.3 MHz								
583.03	H	20.83	-53.36	0.00	0.46	-53.82	-13.00	40.82
46.50	V	21.11	-45.53	-18.33	0.12	-63.98	-13.00	50.98
1430.600	H	34.79	-68.84	8.31	0.73	-61.26	-13.00	48.26
1430.600	V	35.02	-68.67	8.31	0.73	-61.09	-13.00	48.09
2145.900	H	33.46	-68.64	9.19	0.93	-60.38	-13.00	47.38
2145.900	V	33.93	-68.18	9.19	0.93	-59.92	-13.00	46.92
2861.200	H	33.84	-65.81	9.98	1.07	-56.90	-13.00	43.90
2861.200	V	33.76	-65.91	9.98	1.07	-57.00	-13.00	44.00

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)			
QPSK, 5MHz, Frequency: 706.5 MHz								
130.64	H	20.87	-59.78	0.00	0.21	-59.99	-13.00	46.99
46.62	V	21.01	-45.74	-18.21	0.12	-64.07	-13.00	51.07
1413.000	H	34.29	-69.38	8.26	0.72	-61.84	-13.00	48.84
1413.000	V	33.97	-69.75	8.26	0.72	-62.21	-13.00	49.21
2119.500	H	33.47	-68.50	9.17	0.92	-60.25	-13.00	47.25
2119.500	V	33.51	-68.44	9.17	0.92	-60.19	-13.00	47.19
2826.000	H	33.29	-66.52	9.92	1.06	-57.66	-13.00	44.66
2826.000	V	33.31	-66.43	9.92	1.06	-57.57	-13.00	44.57
QPSK, 5MHz, Frequency:710 MHz								
585.09	H	20.76	-53.39	0.00	0.46	-53.85	-13.00	40.85
46.78	V	20.96	-45.93	-18.06	0.12	-64.11	-13.00	51.11
1420.000	H	34.26	-69.40	8.28	0.73	-61.85	-13.00	48.85
1420.000	V	34.62	-69.09	8.28	0.73	-61.54	-13.00	48.54
2130.000	H	33.52	-68.50	9.18	0.92	-60.24	-13.00	47.24
2130.000	V	34.16	-67.85	9.18	0.92	-59.59	-13.00	46.59
2840.000	H	33.69	-66.06	9.94	1.06	-57.18	-13.00	44.18
2840.000	V	33.74	-65.97	9.94	1.06	-57.09	-13.00	44.09
QPSK, 5MHz, Frequency: 713.5 MHz								
534.16	H	20.74	-54.42	0.00	0.46	-54.88	-13.00	41.88
638.36	V	21.28	-49.76	0.00	0.52	-50.28	-13.00	37.28
1427.000	H	34.44	-69.20	8.30	0.73	-61.63	-13.00	48.63
1427.000	V	34.27	-69.42	8.30	0.73	-61.85	-13.00	48.85
2140.500	H	33.29	-68.78	9.18	0.93	-60.53	-13.00	47.53
2140.500	V	34.10	-67.98	9.18	0.93	-59.73	-13.00	46.73
2854.000	H	34.27	-65.42	9.97	1.07	-56.52	-13.00	43.52
2854.000	V	33.97	-65.71	9.97	1.07	-56.81	-13.00	43.81

LTE Band 25 (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								
144.30	H	42.35	-69.80	0.00	0.22	-70.02	-13.00	57.02
45.97	V	42.84	-54.42	-18.85	0.12	-73.39	-13.00	60.39
3701.400	H	35.26	-62.05	10.60	1.25	-52.70	-13.00	39.70
3701.400	V	35.98	-61.31	10.60	1.25	-51.96	-13.00	38.96
5552.100	H	33.72	-59.55	11.44	1.49	-49.60	-13.00	36.60
5552.100	V	34.16	-58.94	11.44	1.49	-48.99	-13.00	35.99
QPSK, 1.4MHz, Frequency:1882.5 MHz								
137.92	H	42.69	-69.59	0.00	0.22	-69.81	-13.00	56.81
43.65	V	42.56	-51.99	-21.58	0.12	-73.69	-13.00	60.69
3765.000	H	35.64	-60.69	10.67	1.25	-51.27	-13.00	38.27
3765.000	V	34.17	-62.04	10.67	1.25	-52.62	-13.00	39.62
5647.500	H	35.28	-58.17	11.32	1.55	-48.40	-13.00	35.40
5647.500	V	34.66	-58.67	11.32	1.55	-48.90	-13.00	35.90
QPSK, 1.4MHz, Frequency: 1914.3 MHz								
129.48	H	42.19	-70.00	0.00	0.21	-70.21	-13.00	57.21
42.30	V	42.13	-50.67	-23.36	0.12	-74.15	-13.00	61.15
3828.600	H	34.62	-61.28	10.73	1.28	-51.83	-13.00	38.83
3828.600	V	35.07	-60.70	10.73	1.28	-51.25	-13.00	38.25
5742.900	H	34.43	-59.05	11.21	1.60	-49.44	-13.00	36.44
5742.900	V	34.89	-58.47	11.21	1.60	-48.86	-13.00	35.86

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)			
QPSK, 1.4MHz, Frequency: 814.7MHz								
709.21	H	20.76	-52.37	0.00	0.52	-52.89	-13.00	39.89
716.90	V	21.13	-48.42	0.00	0.50	-48.92	-13.00	35.92
1629.400	H	34.67	-69.68	8.66	0.81	-61.83	-13.00	48.83
1629.400	V	35.64	-68.77	8.66	0.81	-60.92	-13.00	47.92
2444.100	H	34.52	-66.37	9.37	1.00	-58.00	-13.00	45.00
2444.100	V	34.73	-66.02	9.37	1.00	-57.65	-13.00	44.65
3258.800	H	33.59	-63.27	10.30	1.17	-54.14	-13.00	41.14
3258.800	V	33.71	-62.90	10.30	1.17	-53.77	-13.00	40.77
QPSK, 1.4MHz, Frequency:831.5 MHz								
701.34	H	21.03	-52.26	0.00	0.55	-52.81	-13.00	39.81
724.28	V	20.96	-48.43	0.00	0.51	-48.94	-13.00	35.94
1663.000	H	34.62	-69.70	8.70	0.83	-61.83	-13.00	48.83
1663.000	V	35.03	-69.38	8.70	0.83	-61.51	-13.00	48.51
2494.500	H	34.46	-66.24	9.40	1.01	-57.85	-13.00	44.85
2494.500	V	34.52	-66.19	9.40	1.01	-57.80	-13.00	44.80
3326.000	H	33.78	-63.17	10.33	1.16	-54.00	-13.00	41.00
3326.000	V	34.05	-62.72	10.33	1.16	-53.55	-13.00	40.55
QPSK, 1.4MHz, Frequency: 848.3 MHz								
721.74	H	20.64	-52.24	0.00	0.50	-52.74	-13.00	39.74
704.37	V	21.30	-48.52	0.00	0.55	-49.07	-13.00	36.07
1696.600	H	35.27	-69.02	8.74	0.89	-61.17	-13.00	48.17
1696.600	V	34.91	-69.51	8.74	0.89	-61.66	-13.00	48.66
2544.900	H	34.75	-65.59	9.47	1.01	-57.13	-13.00	44.13
2544.900	V	35.11	-65.19	9.47	1.01	-56.73	-13.00	43.73
3393.200	H	34.62	-63.05	10.36	1.19	-53.88	-13.00	40.88
3393.200	V	35.42	-62.21	10.36	1.19	-53.04	-13.00	40.04

LTE Band 41(2496MHz-2690MHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 2498.5 MHz								
147.92	H	42.74	-69.28	0.00	0.22	-69.50	-25.00	44.50
46.23	V	42.04	-55.47	-18.59	0.12	-74.18	-25.00	49.18
4997.000	H	33.42	-59.52	11.20	1.48	-49.80	-25.00	24.80
4997.000	V	33.36	-59.44	11.20	1.48	-49.72	-25.00	24.72
7495.500	H	33.63	-56.16	10.90	1.94	-47.20	-25.00	22.20
7495.500	V	33.75	-56.54	10.90	1.94	-47.58	-25.00	22.58
QPSK, 5MHz, Frequency:2593 MHz								
143.40	H	42.41	-69.77	0.00	0.22	-69.99	-25.00	44.99
46.66	V	42.64	-55.30	-18.17	0.12	-73.59	-25.00	48.59
5186.000	H	35.42	-58.61	11.31	1.44	-48.74	-25.00	23.74
5186.000	V	34.65	-59.24	11.31	1.44	-49.37	-25.00	24.37
7779.000	H	34.13	-55.36	10.84	1.99	-46.51	-25.00	21.51
7779.000	V	33.79	-56.15	10.84	1.99	-47.30	-25.00	22.30
QPSK, 5MHz, Frequency: 2687.5 MHz								
128.19	H	42.47	-69.71	0.00	0.21	-69.92	-25.00	44.92
46.18	V	42.24	-55.22	-18.64	0.12	-73.98	-25.00	48.98
5375.000	H	33.45	-60.06	11.43	1.49	-50.12	-25.00	25.12
5375.000	V	33.47	-60.03	11.43	1.49	-50.09	-25.00	25.09
8062.500	H	33.63	-54.59	10.81	2.12	-45.90	-25.00	20.90
8062.500	V	33.52	-55.20	10.81	2.12	-46.51	-25.00	21.51

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								
132.68	H	42.48	-69.74	0.00	0.22	-69.96	-13.00	56.96
45.54	V	42.28	-54.55	-19.27	0.12	-73.94	-13.00	60.94
3421.400	H	34.62	-63.14	10.37	1.17	-53.94	-13.00	40.94
3421.400	V	34.17	-63.56	10.37	1.17	-54.36	-13.00	41.36
5132.100	H	33.26	-60.31	11.28	1.47	-50.50	-13.00	37.50
5132.100	V	33.43	-60.03	11.28	1.47	-50.22	-13.00	37.22
1.4MHz QPSK, Frequency: 1745 MHz								
144.82	H	42.70	-69.43	0.00	0.23	-69.66	-13.00	56.66
46.02	V	42.12	-55.19	-18.80	0.12	-74.11	-13.00	61.11
3490.000	H	34.26	-63.58	10.40	1.17	-54.35	-13.00	41.35
3490.000	V	33.47	-64.31	10.40	1.17	-55.08	-13.00	42.08
5235.000	H	34.06	-59.84	11.34	1.46	-49.96	-13.00	36.96
5235.000	V	33.75	-59.96	11.34	1.46	-50.08	-13.00	37.08
1.4MHz QPSK, Frequency: 1779.3 MHz								
144.84	H	42.52	-69.61	0.00	0.23	-69.84	-13.00	56.84
44.90	V	42.50	-53.67	-19.93	0.12	-73.72	-13.00	60.72
3558.600	H	33.73	-63.94	10.46	1.22	-54.70	-13.00	41.70
3558.600	V	33.49	-64.08	10.46	1.22	-54.84	-13.00	41.84
5337.900	H	33.51	-59.96	11.40	1.47	-50.03	-13.00	37.03
5337.900	V	33.86	-59.47	11.40	1.47	-49.54	-13.00	36.54

LTE Band 71(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: 665.5 MHz								
729.35	H	21.48	-51.25	0.00	0.53	-51.78	-13.00	38.78
572.61	V	21.20	-50.49	0.00	0.46	-50.95	-13.00	37.95
1331.000	H	34.56	-68.47	8.03	0.76	-61.20	-13.00	48.20
1331.000	V	34.27	-69.09	8.03	0.76	-61.82	-13.00	48.82
1996.500	H	33.59	-68.57	9.10	0.89	-60.36	-13.00	47.36
1996.500	V	33.78	-67.76	9.10	0.89	-59.55	-13.00	46.55
2662.000	H	33.64	-66.32	9.66	1.06	-57.72	-13.00	44.72
2662.000	V	33.85	-66.03	9.66	1.06	-57.43	-13.00	44.43
5MHz QPSK, Frequency: 680.5 MHz								
503.12	H	21.03	-54.74	0.00	0.45	-55.19	-13.00	42.19
46.45	V	21.13	-45.47	-18.38	0.12	-63.97	-13.00	50.97
1361.000	H	34.27	-69.06	8.11	0.77	-61.72	-13.00	48.72
1361.000	V	34.18	-69.35	8.11	0.77	-62.01	-13.00	49.01
2041.500	H	33.64	-68.39	9.12	0.91	-60.18	-13.00	47.18
2041.500	V	34.18	-67.46	9.12	0.91	-59.25	-13.00	46.25
2722.000	H	34.28	-65.69	9.76	1.05	-56.98	-13.00	43.98
2722.000	V	34.19	-65.72	9.76	1.05	-57.01	-13.00	44.01
5MHz QPSK, Frequency: 695.5 MHz								
564.78	H	21.22	-53.33	0.00	0.46	-53.79	-13.00	40.79
46.97	V	20.89	-46.16	-17.87	0.12	-64.15	-13.00	51.15
1391.000	H	34.09	-69.53	8.19	0.72	-62.06	-13.00	49.06
1391.000	V	34.11	-69.59	8.19	0.72	-62.12	-13.00	49.12
2086.500	H	33.44	-68.47	9.15	0.91	-60.23	-13.00	47.23
2086.500	V	33.65	-68.14	9.15	0.91	-59.90	-13.00	46.90
2782.000	H	33.62	-66.32	9.85	1.05	-57.52	-13.00	44.52
2782.000	V	33.57	-66.26	9.85	1.05	-57.46	-13.00	44.46

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

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