

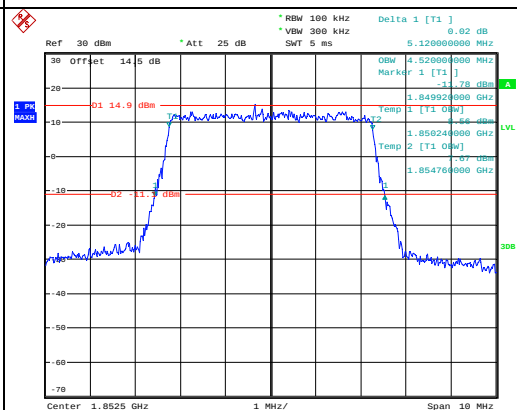
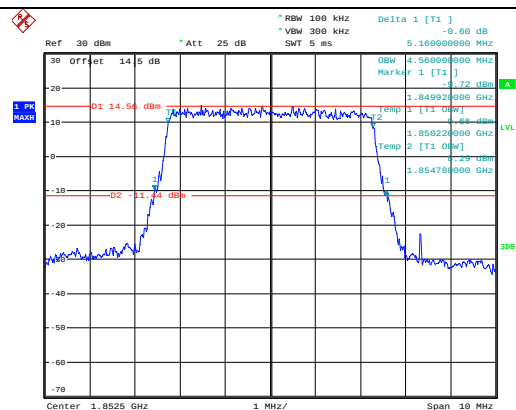
Occupied Bandwidth

Channel

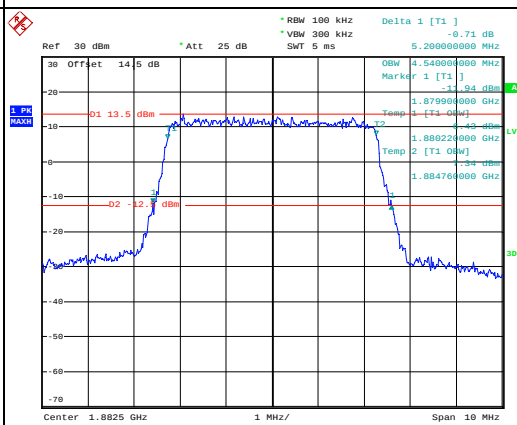
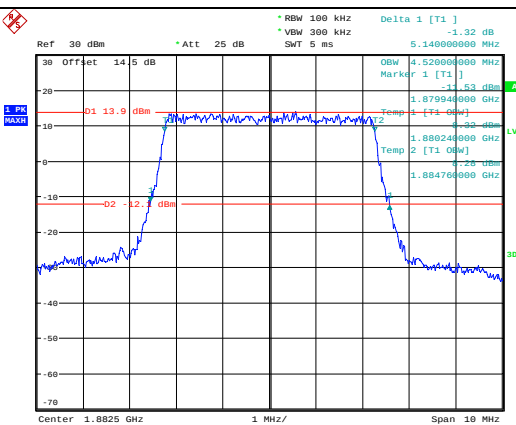
5MHz Bandwidth QPSK

5MHz Bandwidth 16QAM

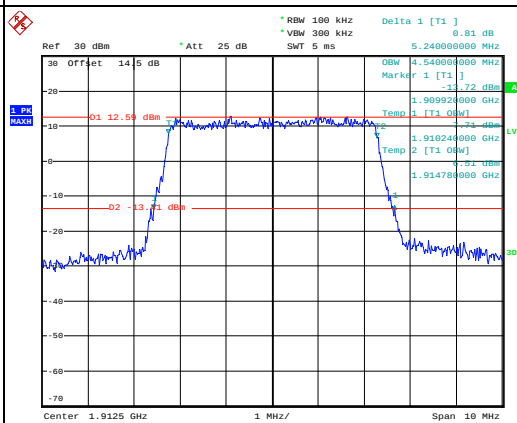
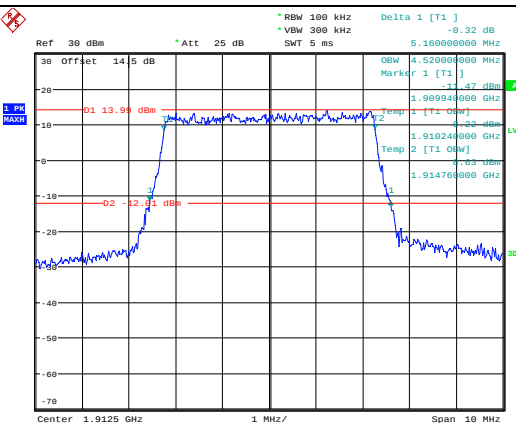
Lowest



Middle



Highest



Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	Date: 8.JUL.2023 13:23:37	Date: 8.JUL.2023 13:23:58
Middle	Date: 8.JUL.2023 13:24:15	Date: 8.JUL.2023 13:24:35
Highest	Date: 8.JUL.2023 13:24:56	Date: 8.JUL.2023 13:25:16

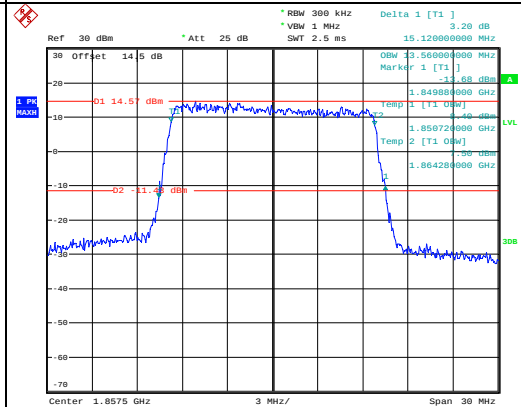
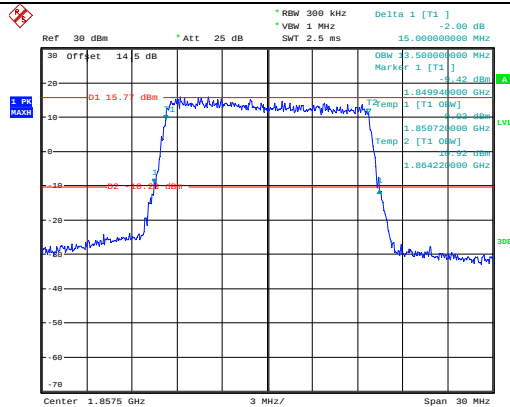
Occupied Bandwidth

Channel

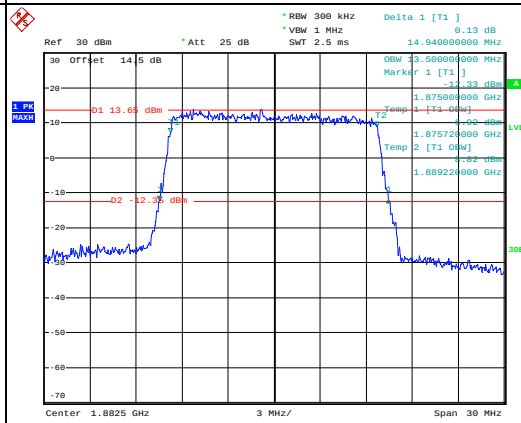
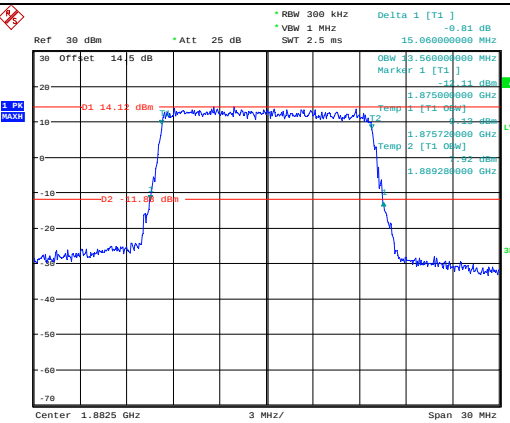
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

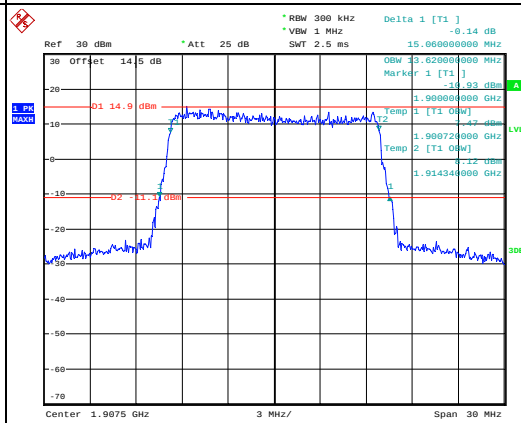
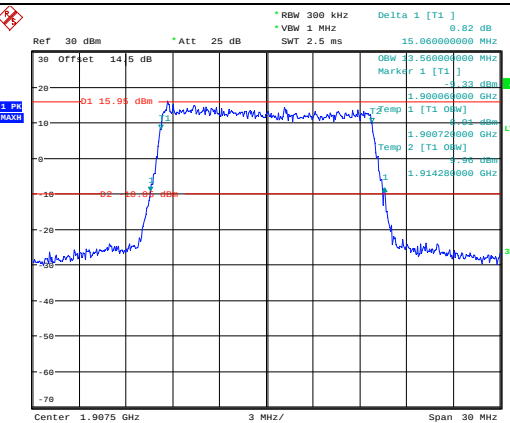
Lowest



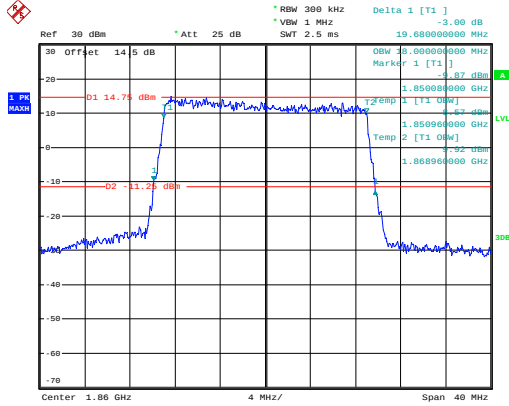
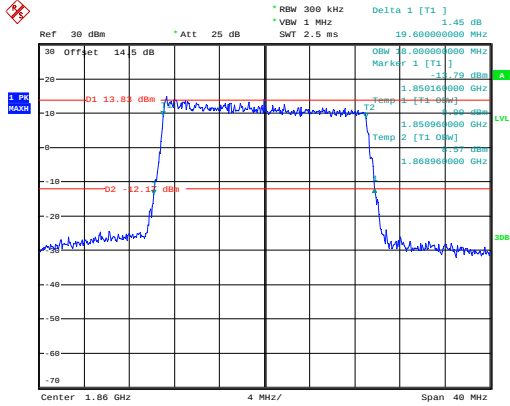
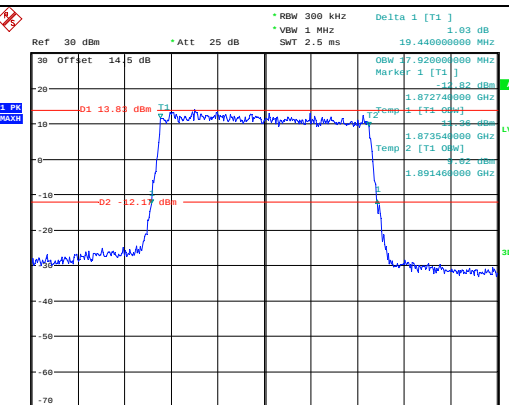
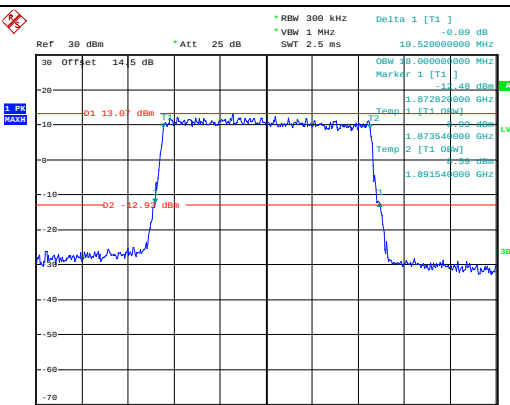
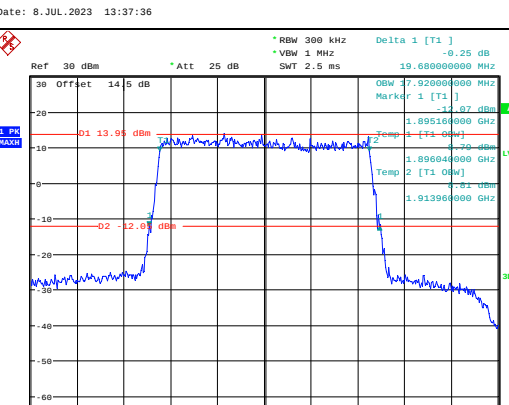
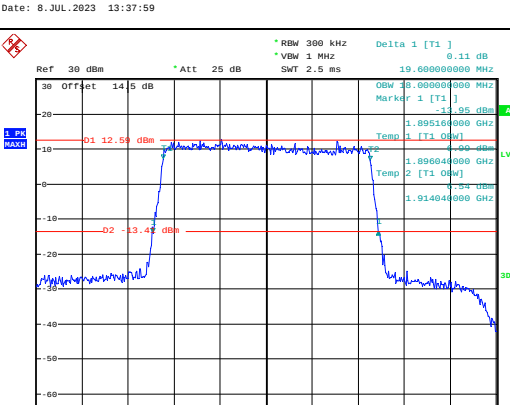
Middle



Highest



Occupied Bandwidth

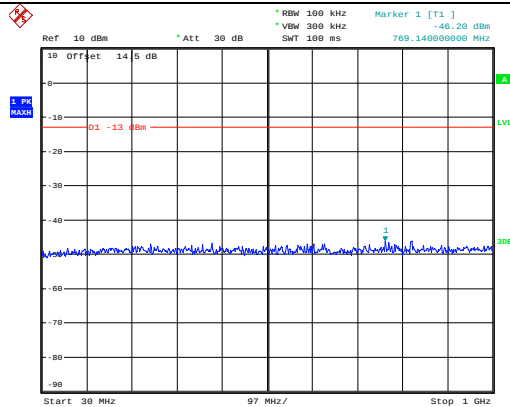
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 1.03 dB VBW 1 MHz SWT 2.5 ms 19.680000000 MHz Marker 1 [T1] -13.75 dBm 1.850000000 GHz 1.868960000 GHz Temp 1 [T1 0dB] -13.75 dBm Temp 2 [T1 0dB] -13.75 dBm Center 1.86 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:36:55	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 1.45 dB VBW 1 MHz SWT 2.5 ms 19.680000000 MHz Marker 1 [T1] -13.83 dBm 1.850160000 GHz 1.868960000 GHz Temp 1 [T1 0dB] -13.83 dBm Temp 2 [T1 0dB] -13.83 dBm Center 1.86 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:37:16
Middle	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 1.03 dB VBW 1 MHz SWT 2.5 ms 19.440000000 MHz Marker 1 [T1] -13.82 dBm 1.872740000 GHz 1.891460000 GHz Temp 1 [T1 0dB] -13.82 dBm Temp 2 [T1 0dB] -13.82 dBm Center 1.8825 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:37:36	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.89 dB VBW 1 MHz SWT 2.5 ms 19.520000000 MHz Marker 1 [T1] -13.07 dBm 1.872820000 GHz 1.891540000 GHz Temp 1 [T1 0dB] -13.07 dBm Temp 2 [T1 0dB] -13.07 dBm Center 1.8825 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:37:59
Highest	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.25 dB VBW 1 MHz SWT 2.5 ms 19.680000000 MHz Marker 1 [T1] -13.95 dBm 1.895160000 GHz 1.913960000 GHz Temp 1 [T1 0dB] -13.95 dBm Temp 2 [T1 0dB] -13.95 dBm Center 1.905 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:38:20	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.11 dB VBW 1 MHz SWT 2.5 ms 19.680000000 MHz Marker 1 [T1] -12.59 dBm 1.895160000 GHz 1.914040000 GHz Temp 1 [T1 0dB] -12.59 dBm Temp 2 [T1 0dB] -12.59 dBm Center 1.905 GHz 4 MHz/ Span 40 MHz Date: 8.JUL.2023 13:38:41

Spurious Emissions at Antenna Terminal

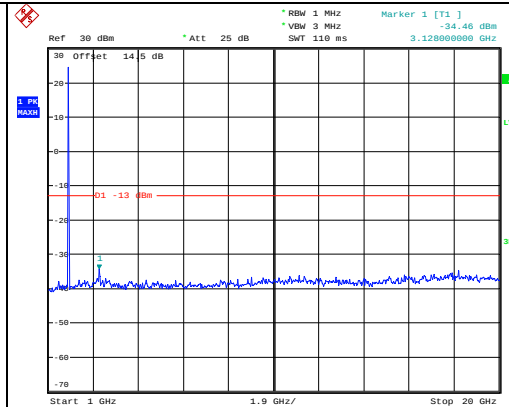
Channel

1.4MHz Bandwidth QPSK

Lowest

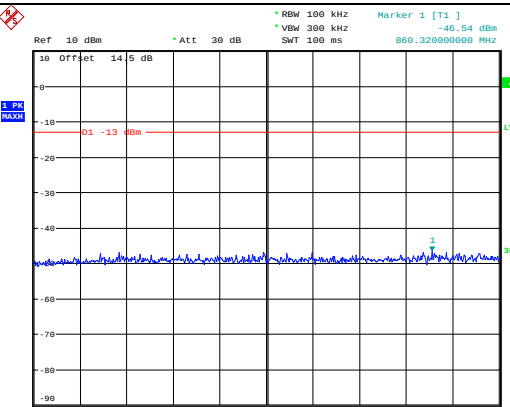


Date: 8.JUL.2023 15:49:01

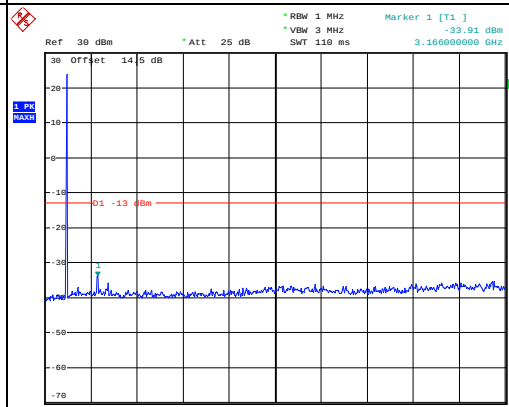


Date: 8.JUL.2023 15:49:14

Middle

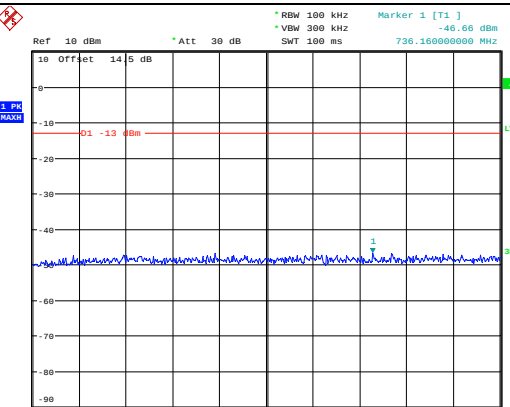


Date: 8.JUL.2023 15:49:29

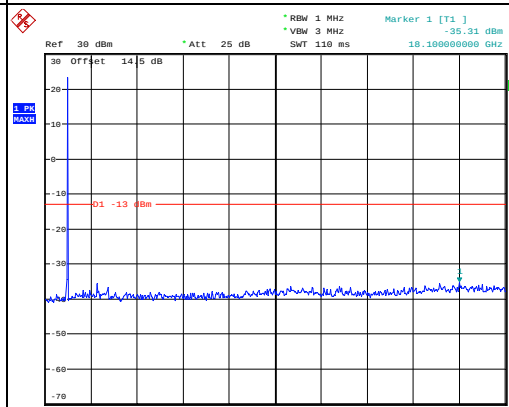


Date: 8.JUL.2023 15:49:43

Highest



Date: 8.JUL.2023 15:50:01



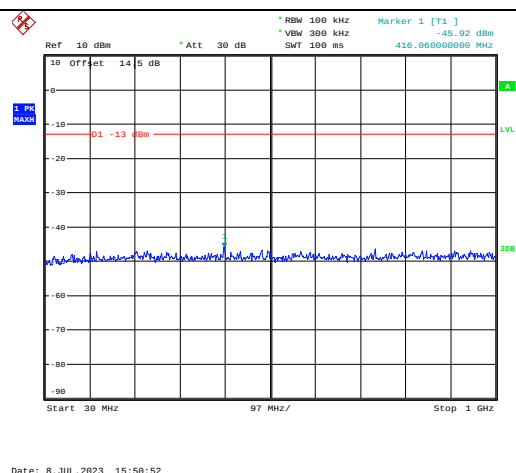
Date: 8.JUL.2023 15:50:10

Spurious Emissions at Antenna Terminal

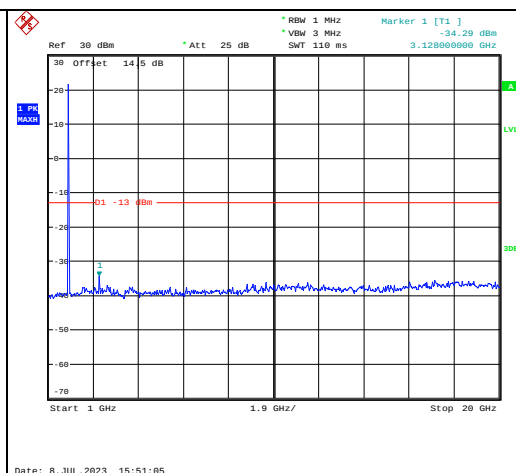
Channel

3MHz Bandwidth QPSK

Lowest

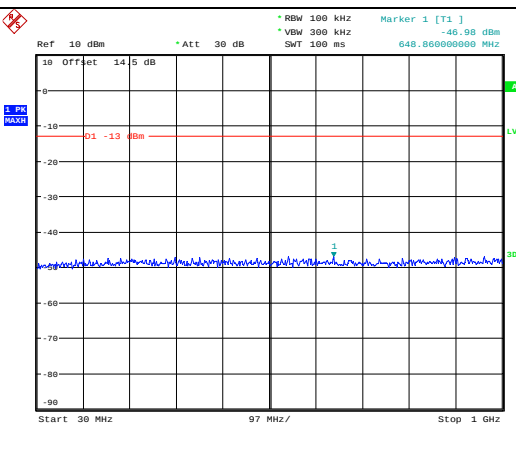


Date: 8.JUL.2023 15:50:52

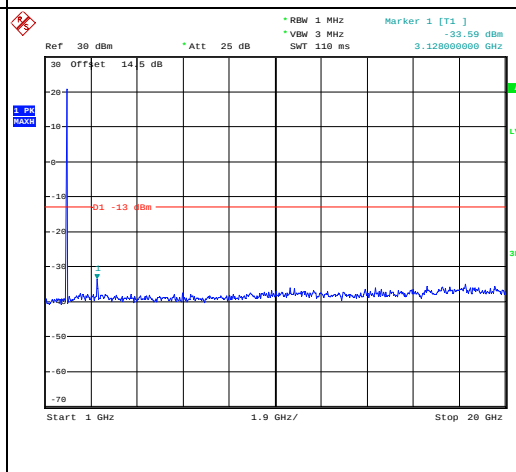


Date: 8.JUL.2023 15:51:05

Middle

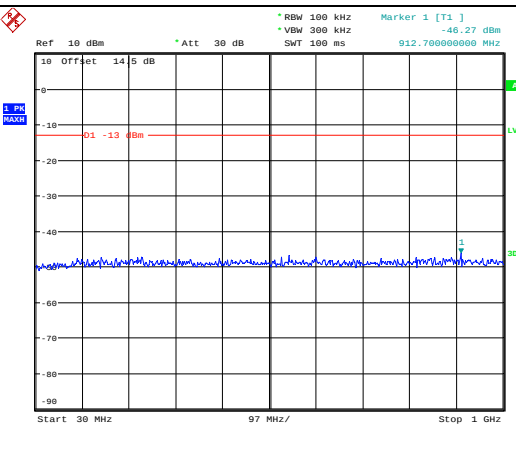


Date: 8.JUL.2023 15:51:23

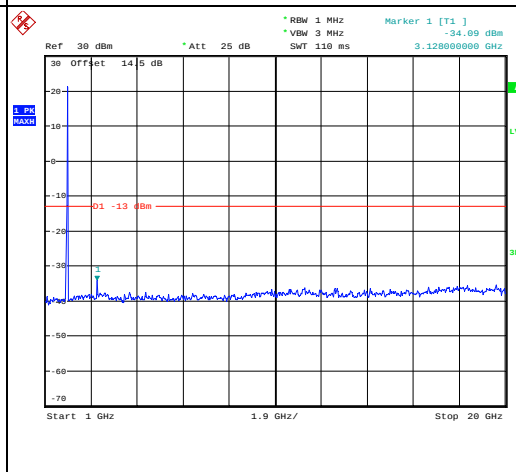


Date: 8.JUL.2023 15:51:36

Highest



Date: 8.JUL.2023 15:51:51



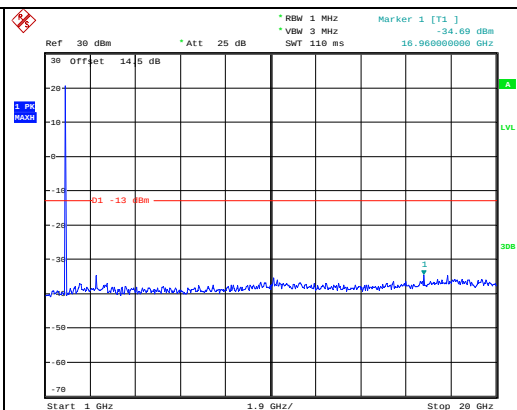
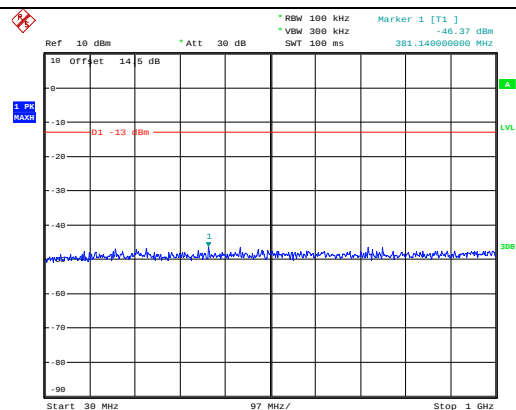
Date: 8.JUL.2023 15:52:03

Spurious Emissions at Antenna Terminal

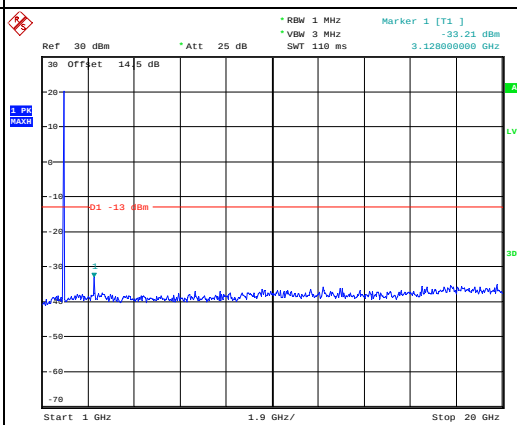
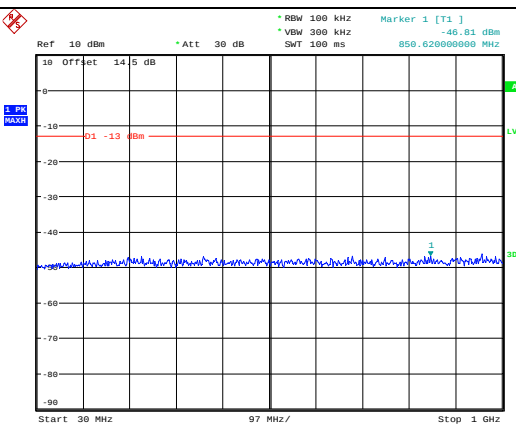
Channel

5MHz Bandwidth QPSK

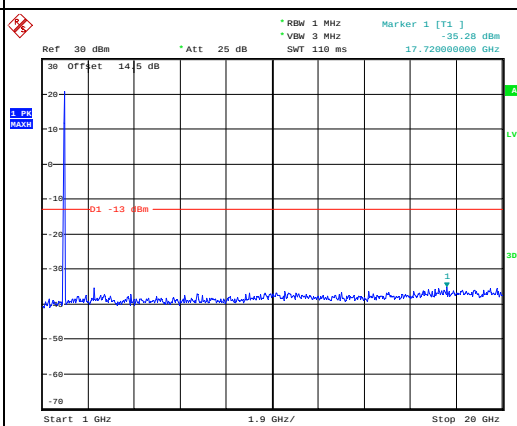
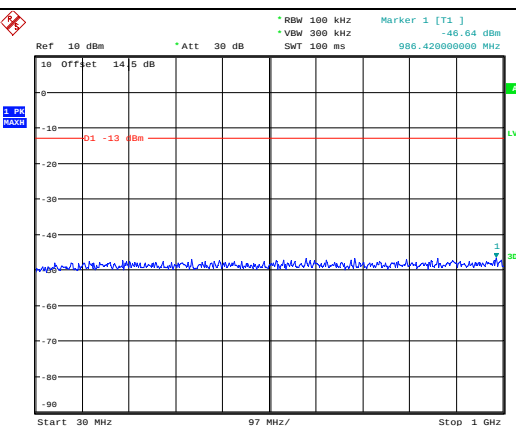
Lowest



Middle



Highest

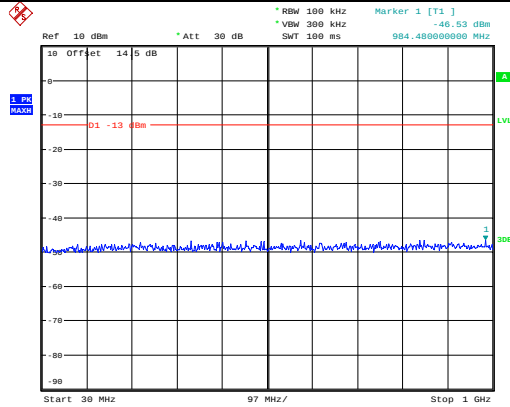


Spurious Emissions at Antenna Terminal

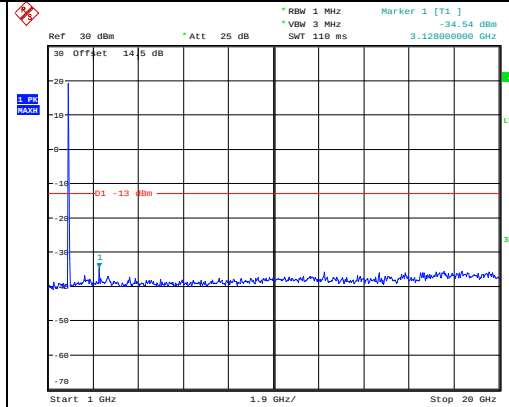
Channel

10MHz Bandwidth QPSK

Lowest

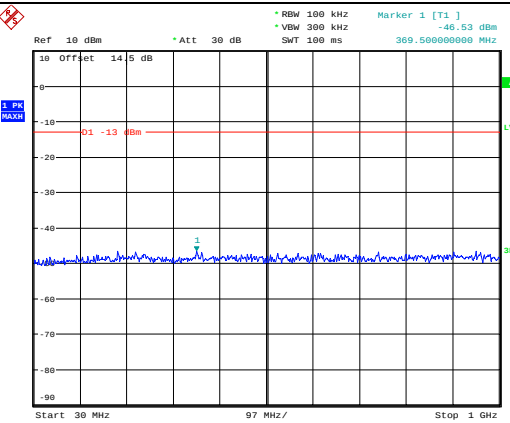


Date: 8.JUL.2023 15:54:39

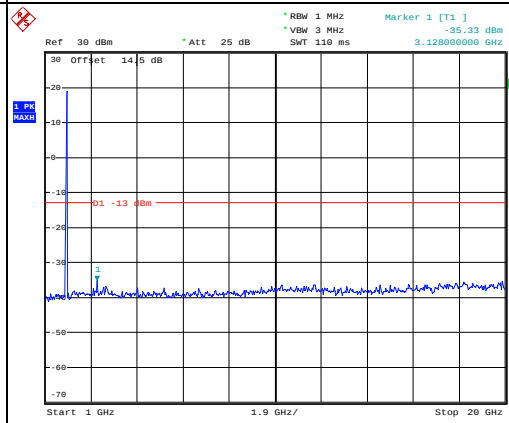


Date: 8.JUL.2023 15:54:52

Middle

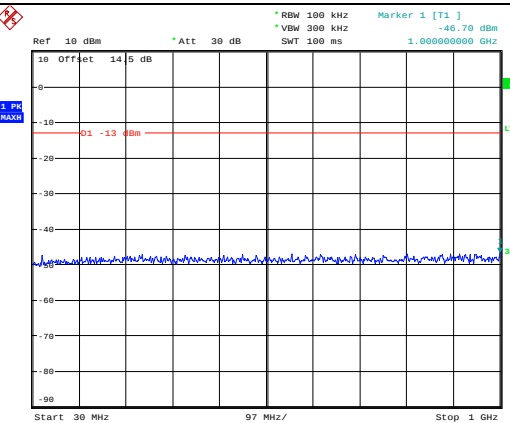


Date: 8.JUL.2023 15:55:10

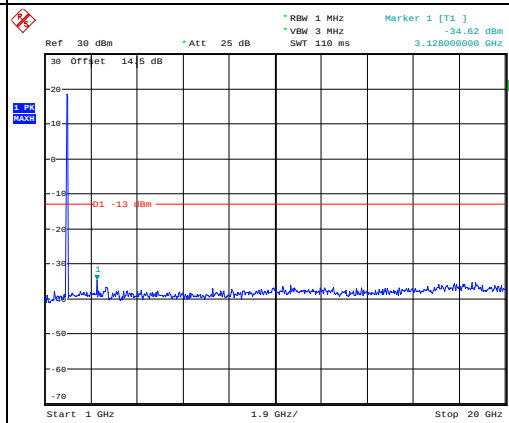


Date: 8.JUL.2023 15:55:23

Highest



Date: 8.JUL.2023 15:55:41



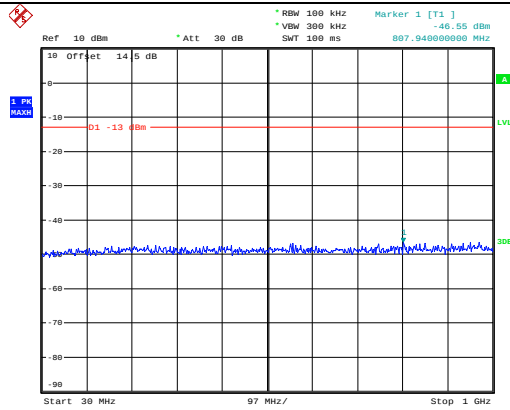
Date: 8.JUL.2023 15:55:54

Spurious Emissions at Antenna Terminal

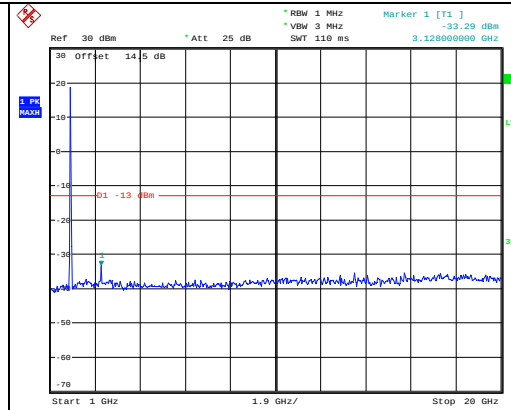
Channel

15MHz Bandwidth QPSK

Lowest

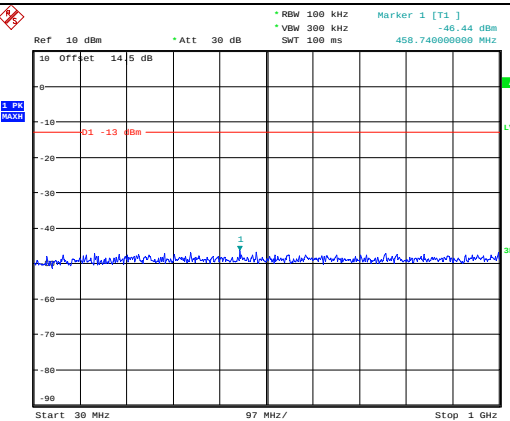


Date: 8.JUL.2023 15:56:47

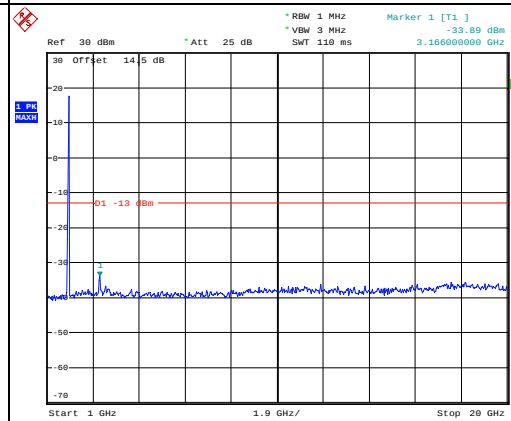


Date: 8.JUL.2023 15:57:00

Middle

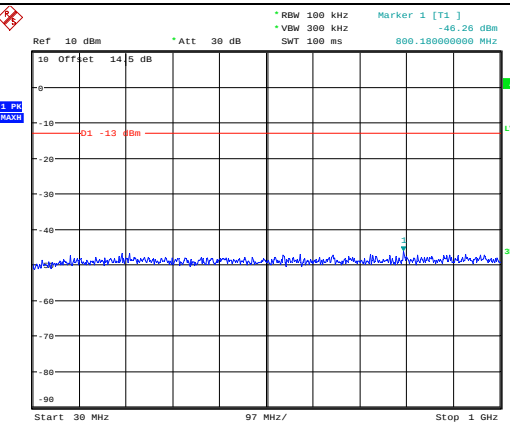


Date: 8.JUL.2023 15:57:15

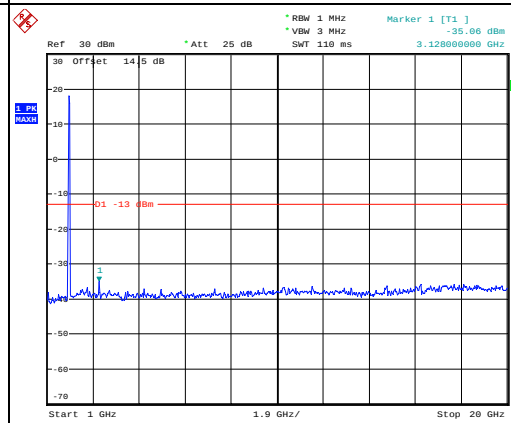


Date: 8.JUL.2023 15:57:28

Highest



Date: 8.JUL.2023 15:57:43



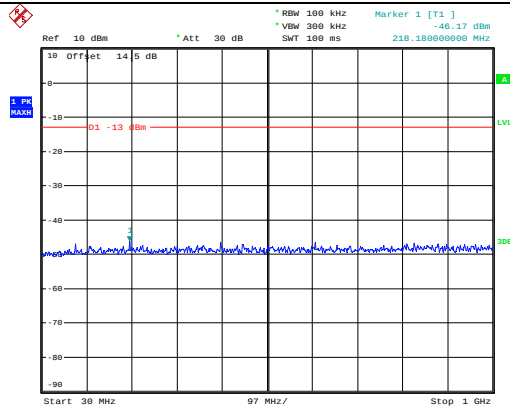
Date: 8.JUL.2023 15:57:56

Spurious Emissions at Antenna Terminal

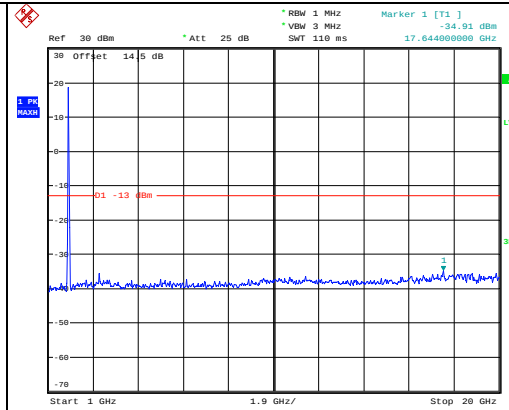
Channel

20MHz Bandwidth QPSK

Lowest

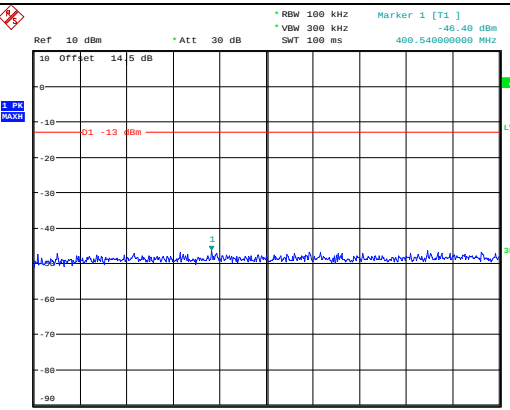


Date: 8.JUL.2023 15:58:38

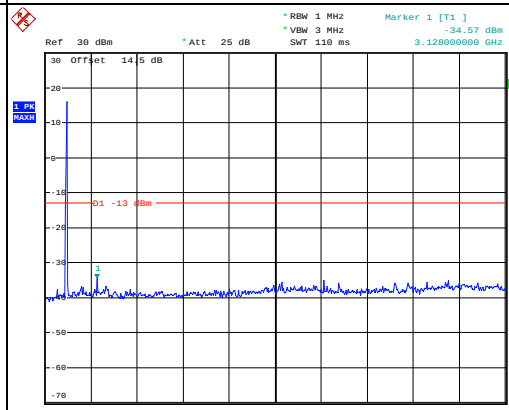


Date: 8.JUL.2023 15:58:52

Middle

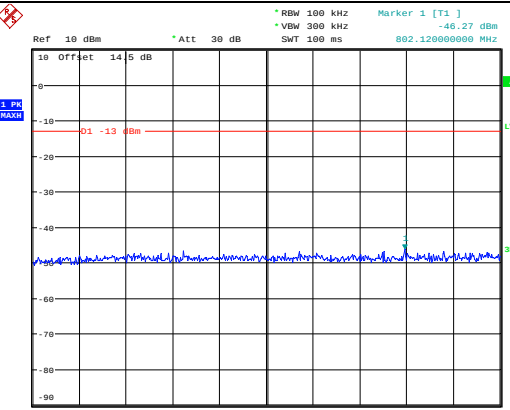


Date: 8.JUL.2023 15:59:10

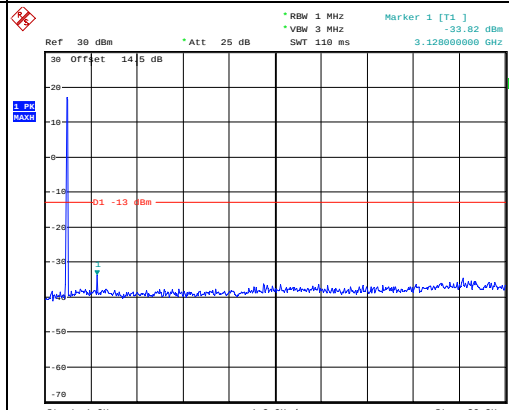


Date: 8.JUL.2023 15:59:22

Highest

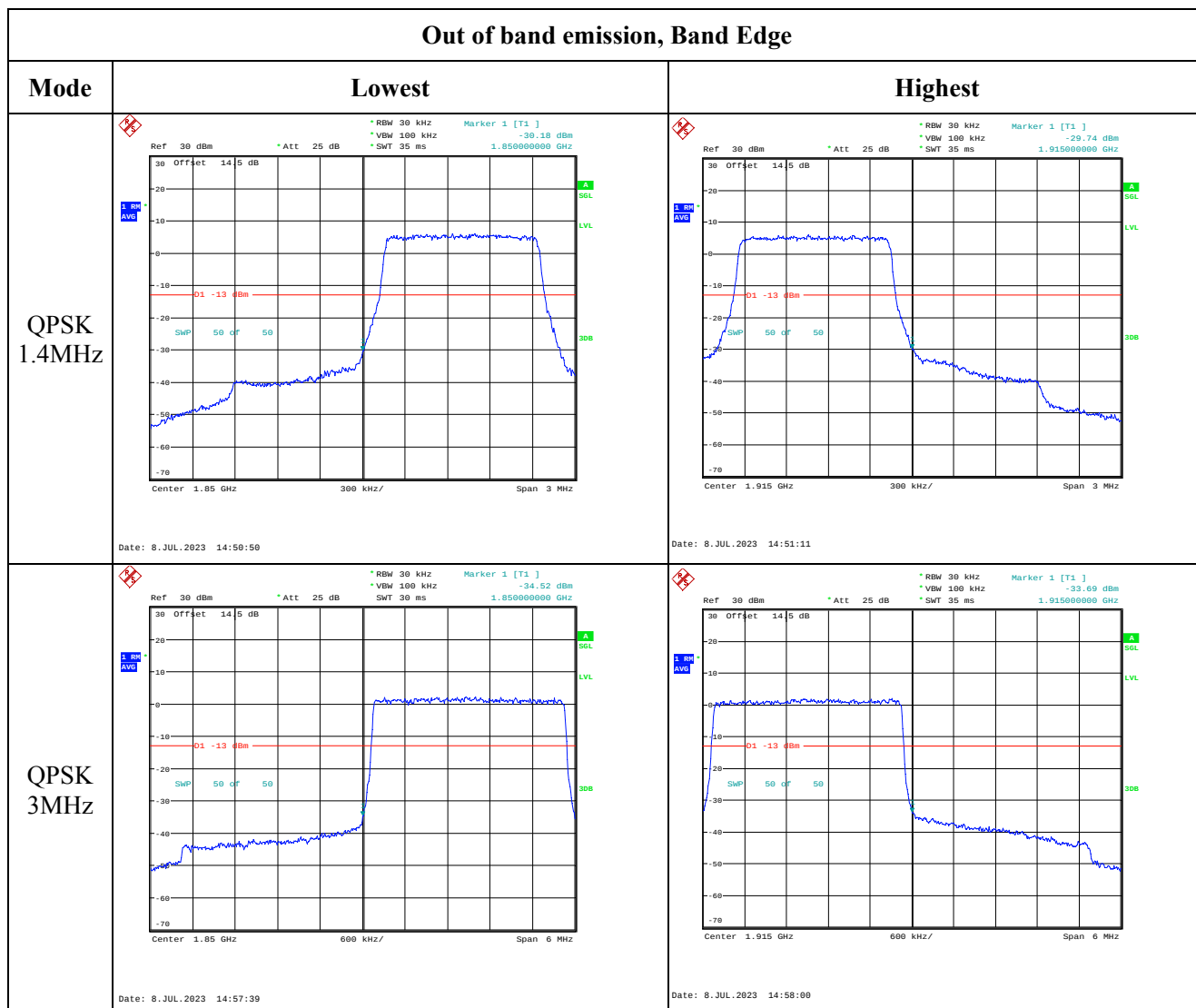


Date: 8.JUL.2023 15:59:40

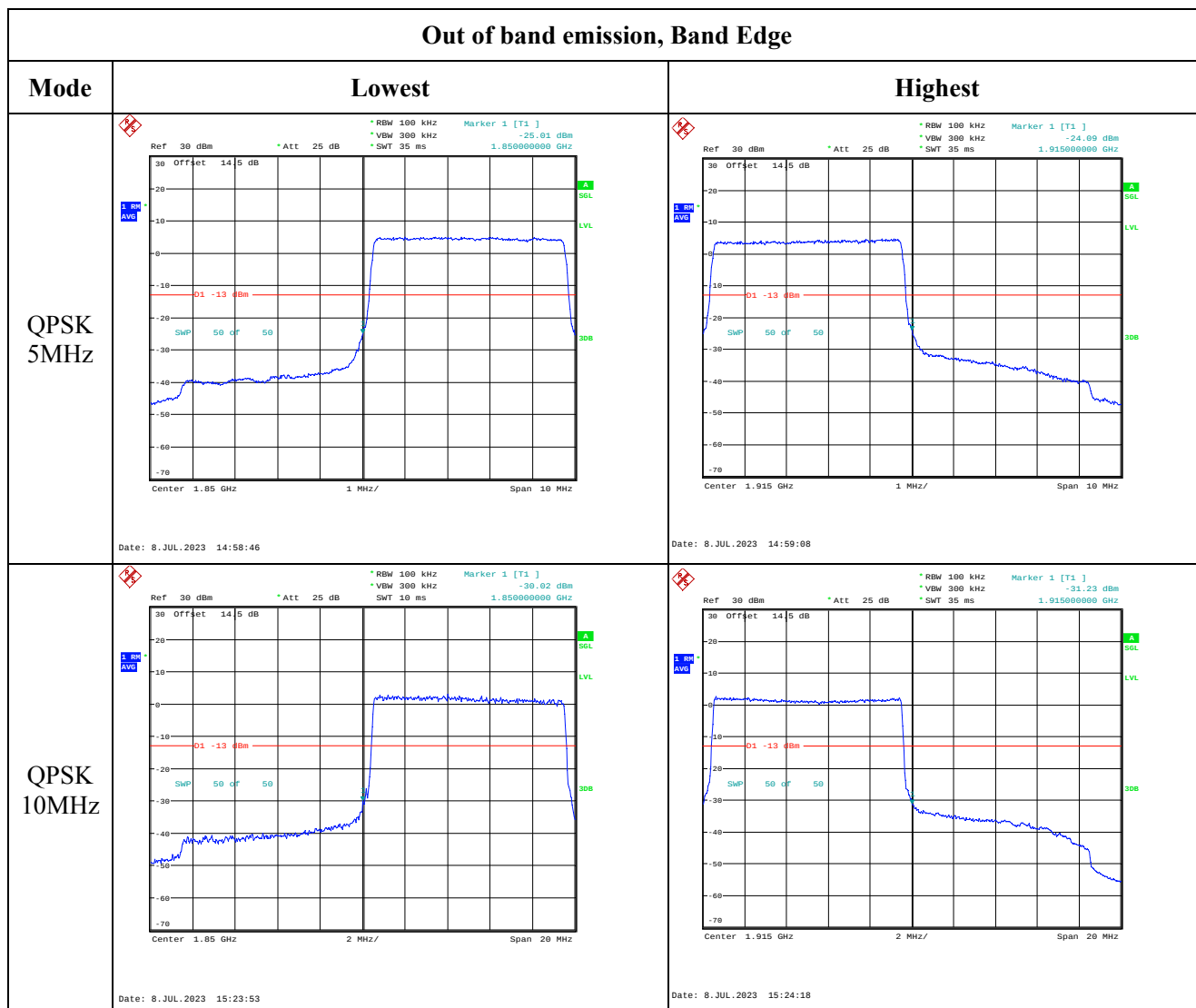


Date: 8.JUL.2023 15:59:53

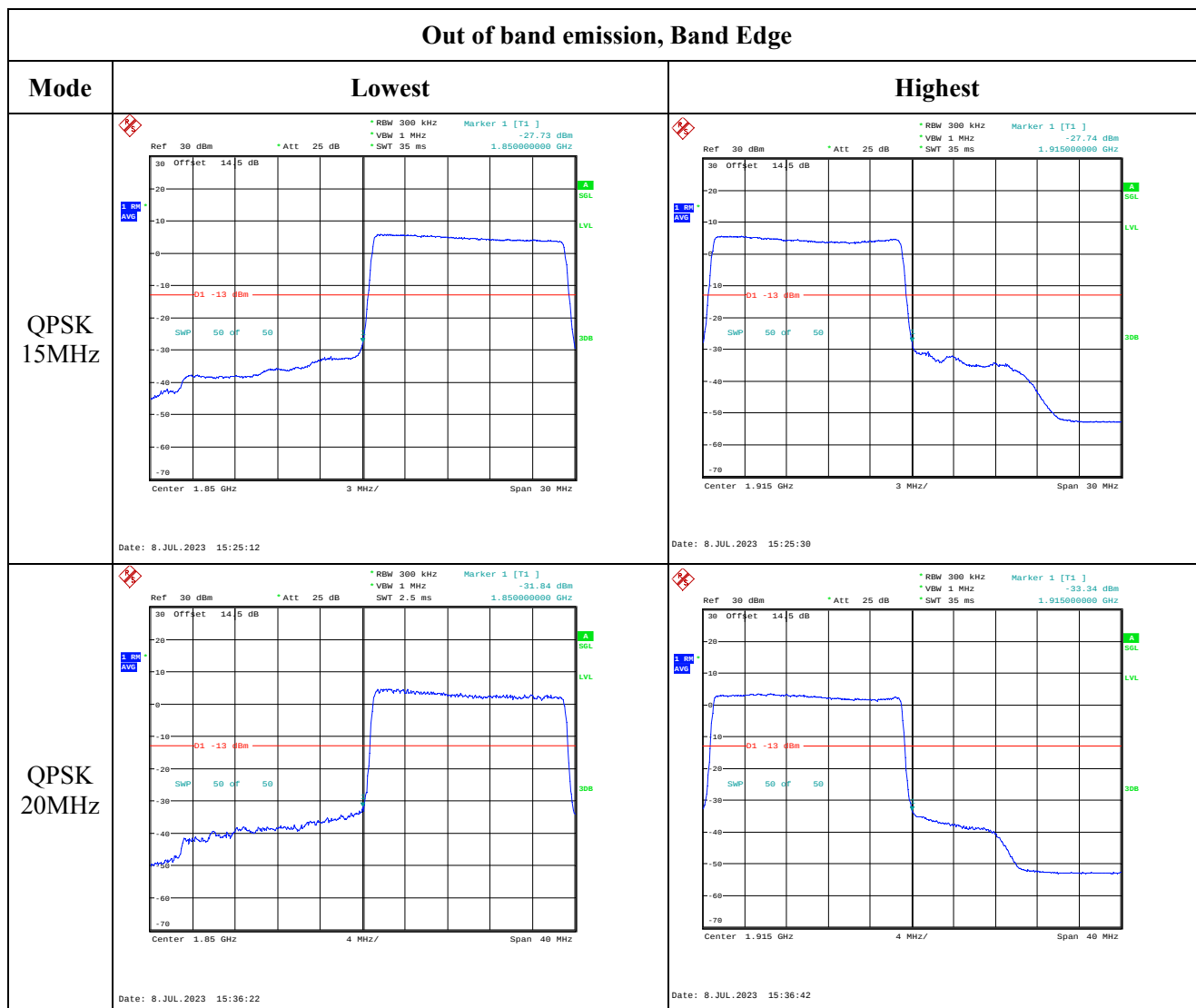
Out of band emission, Band Edge



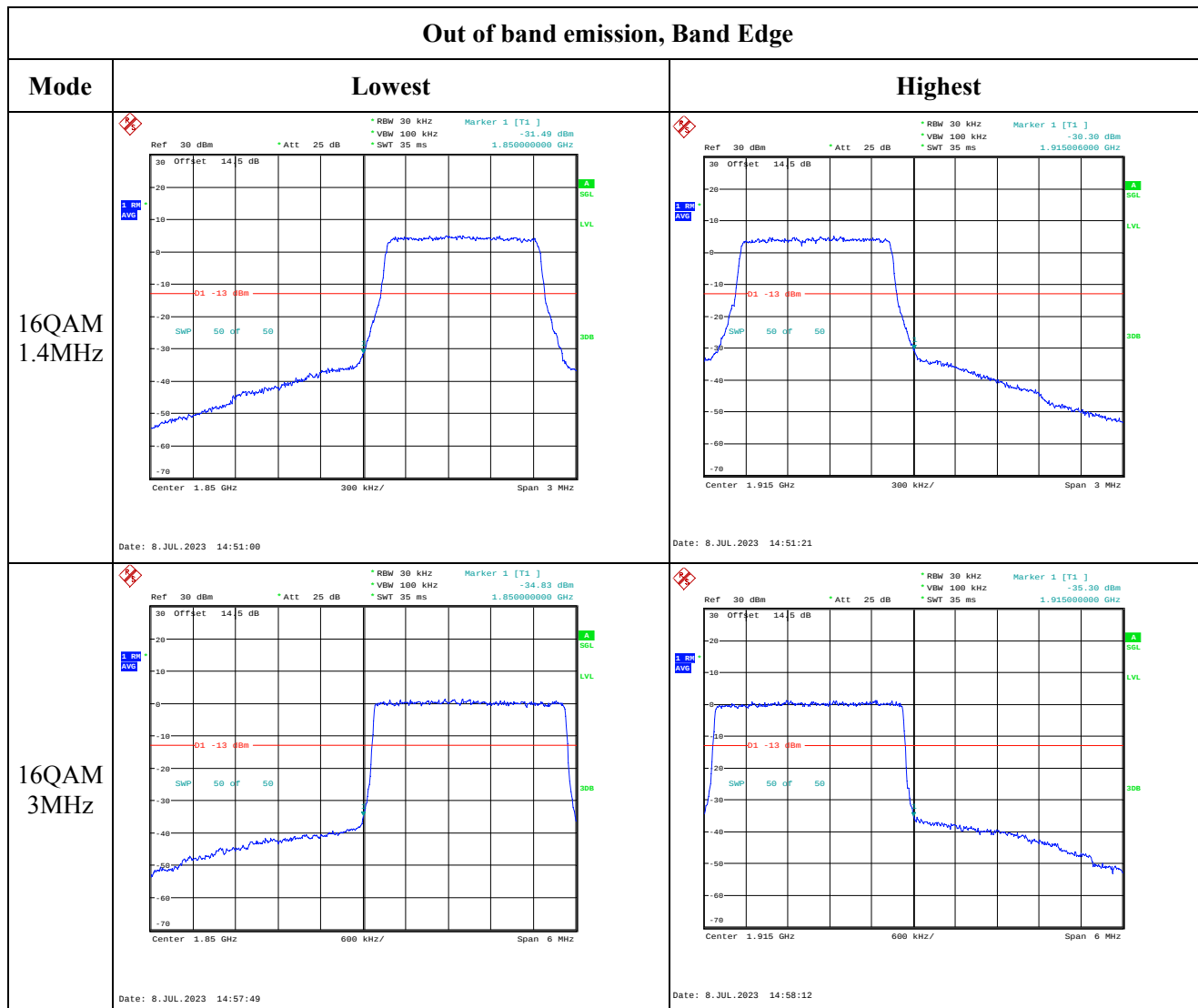
Out of band emission, Band Edge



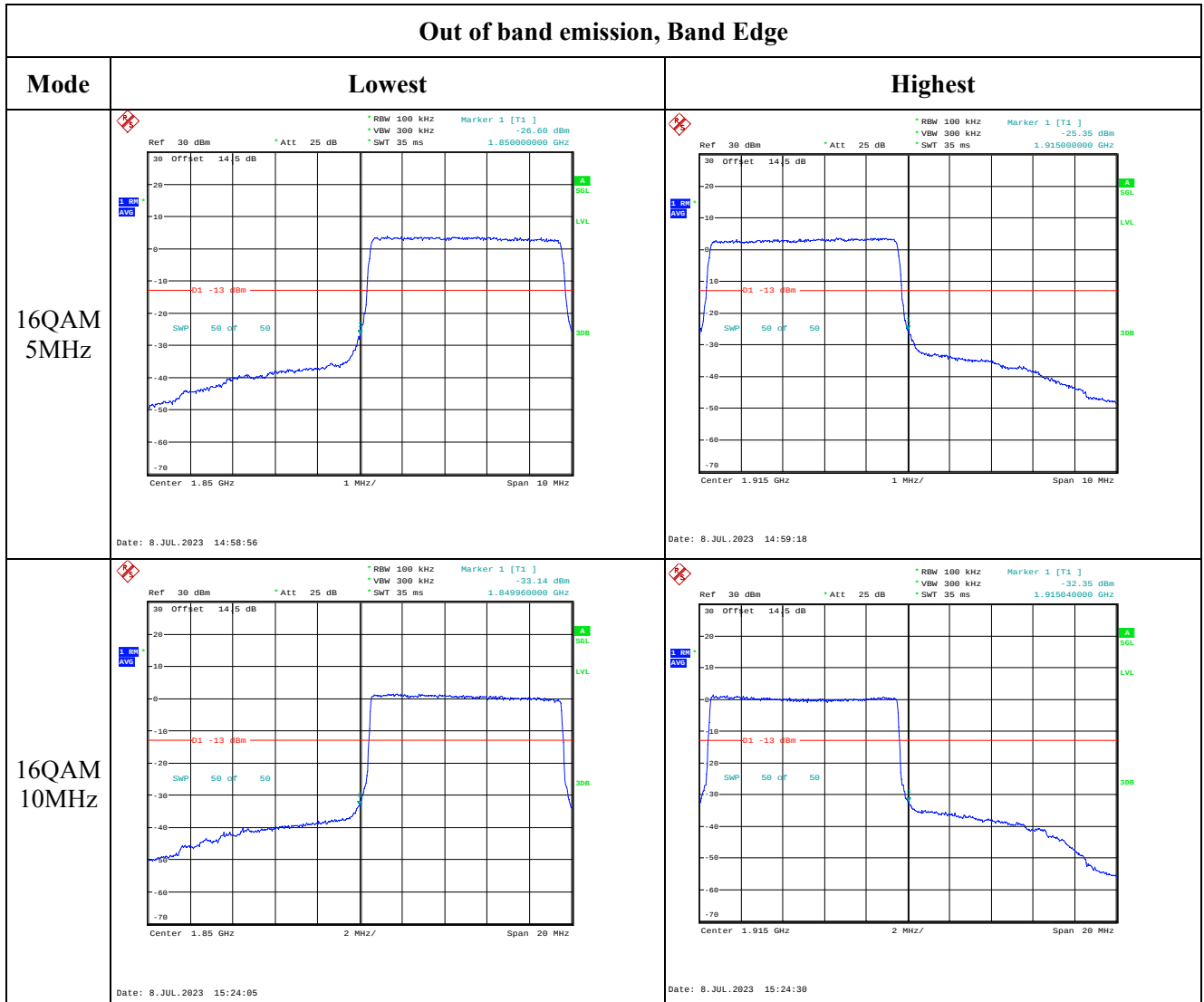
Out of band emission, Band Edge



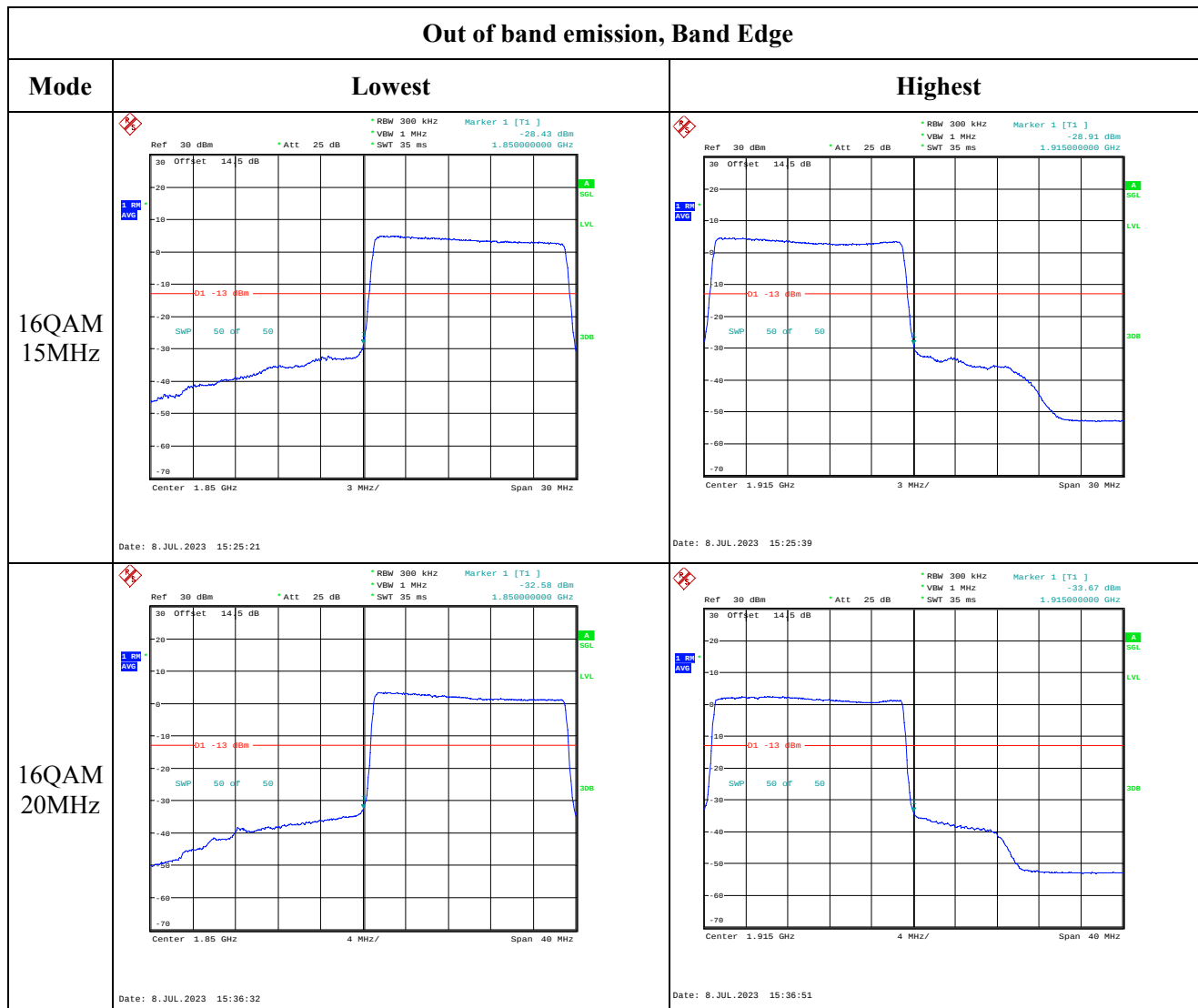
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



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: (°C)	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 Channel	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) - Lc(dB) + Gr(dBd)

Gr(dBd)=Gr(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 (°C)	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 (°C)	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

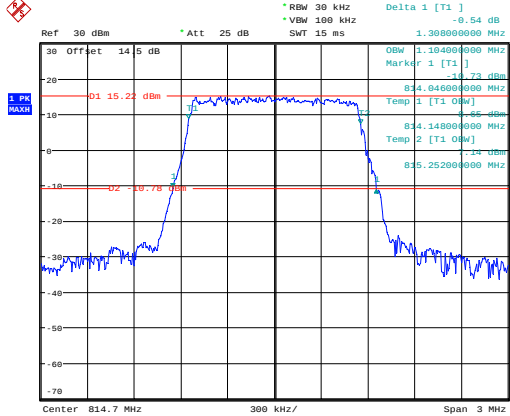
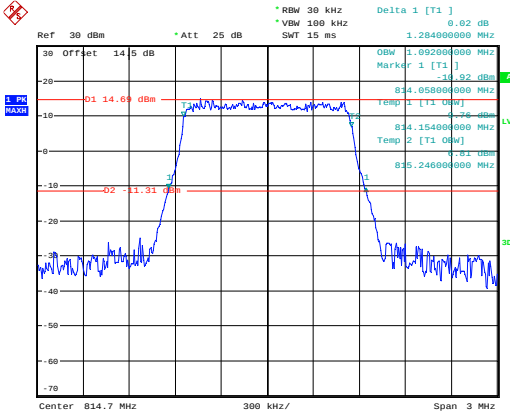
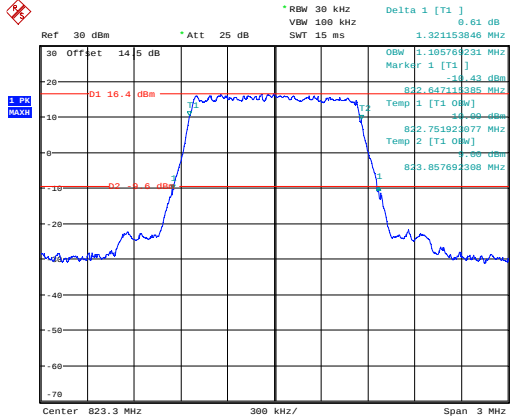
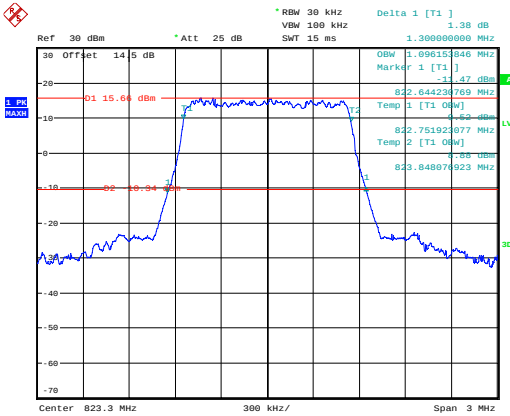
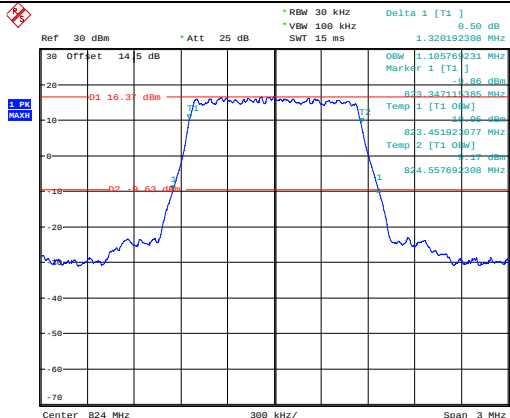
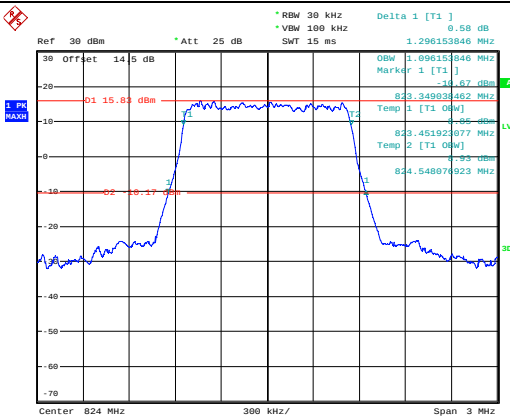
Test Modulation:	15 MHz QPSK		Test Channel:	831.5	MHz
Test Item	Temperature (°C)	Voltage (V _{DC})	Frequency Error		Limit
			(Hz)	(ppm)	(ppm)
Frequency Stability vs. Temperature	-30	3.8	3.12	0.004	2.5
	-20	3.8	-2.33	-0.003	2.5
	-10	3.8	11.98	0.014	2.5
	0	3.8	12.33	0.015	2.5
	10	3.8	12.12	0.015	2.5
	20	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 (°C)	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

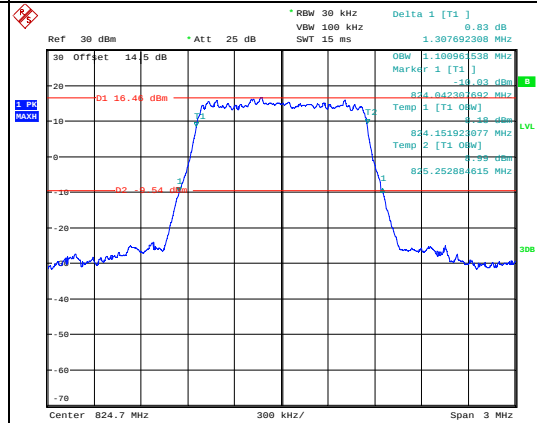
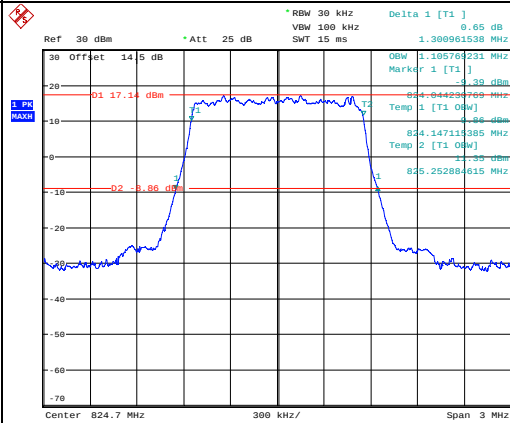
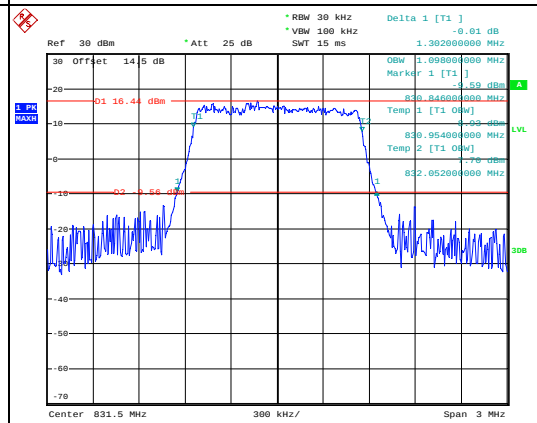
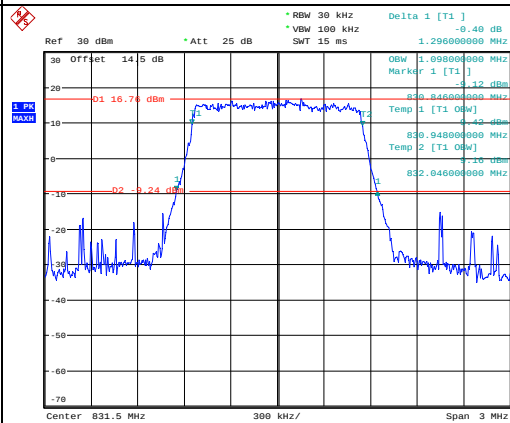
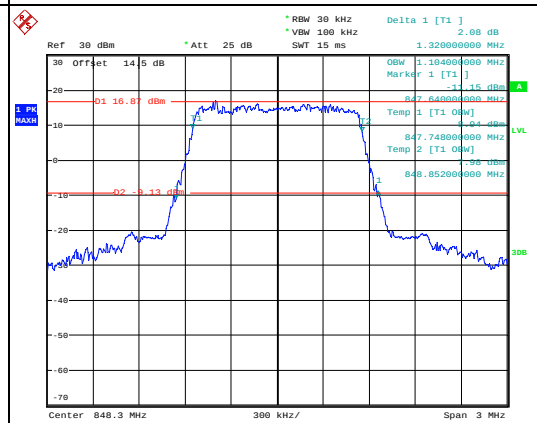
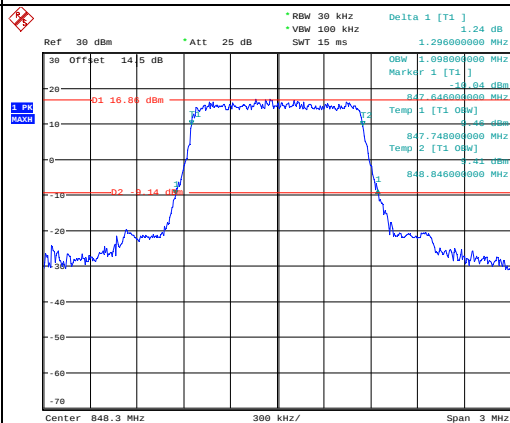
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest For 90S	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.54 dB *VBW 100 kHz SWT 15 ms OBW 1.104000000 MHz Marker 1 [T1] -14.73 dBm 814.840000000 MHz Temp 1 [T1 0dB] 814.140000000 MHz Temp 2 [T1 0dB] 815.250000000 MHz LVL 300 Center 814.7 MHz 300 kHz/ Span 3 MHz Date: 8 JUL 2023 13:39:13	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.02 dB *VBW 100 kHz SWT 15 ms OBW 1.284000000 MHz Marker 1 [T1] -10.92 dBm 814.950000000 MHz Temp 1 [T1 0dB] 814.154000000 MHz Temp 2 [T1 0dB] 815.240000000 MHz LVL 300 Center 814.7 MHz 300 kHz/ Span 3 MHz Date: 8 JUL 2023 13:39:34
Highest For 90S	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.61 dB *VBW 100 kHz SWT 15 ms OBW 1.105769231 MHz Marker 1 [T1] -14.43 dBm 822.847111305 MHz Temp 1 [T1 0dB] 822.751921077 MHz Temp 2 [T1 0dB] 823.857692308 MHz LVL 300 Center 823.3 MHz 300 kHz/ Span 3 MHz Date: 10 JUL 2023 10:04:29	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.38 dB *VBW 100 kHz SWT 15 ms OBW 1.090151846 MHz Marker 1 [T1] -14.47 dBm 822.844023769 MHz Temp 1 [T1 0dB] 822.751921077 MHz Temp 2 [T1 0dB] 823.848074923 MHz LVL 300 Center 823.3 MHz 300 kHz/ Span 3 MHz Date: 10 JUL 2023 10:02:31
Cross Channel	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.50 dB *VBW 100 kHz SWT 15 ms OBW 1.105769231 MHz Marker 1 [T1] -14.35 dBm 823.947111305 MHz Temp 1 [T1 0dB] 823.451921077 MHz Temp 2 [T1 0dB] 824.557692308 MHz LVL 300 Center 824 MHz 300 kHz/ Span 3 MHz Date: 10 JUL 2023 09:24:32	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.58 dB *VBW 100 kHz SWT 15 ms OBW 1.296153846 MHz Marker 1 [T1] -14.87 dBm 823.949023462 MHz Temp 1 [T1 0dB] 823.451921077 MHz Temp 2 [T1 0dB] 824.548074923 MHz LVL 300 Center 824 MHz 300 kHz/ Span 3 MHz Date: 10 JUL 2023 09:26:43

Occupied Bandwidth

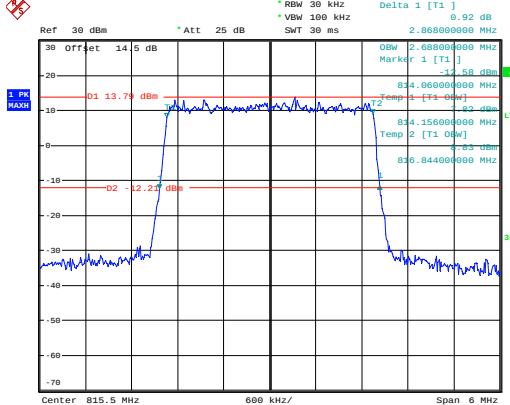
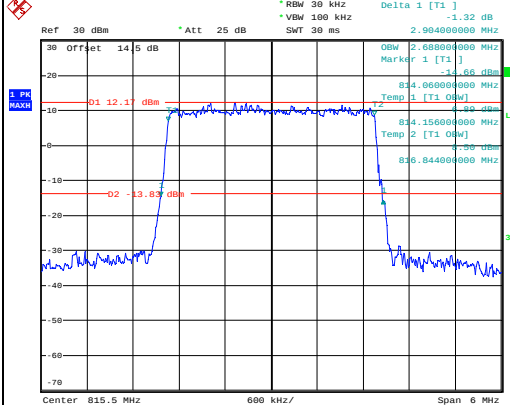
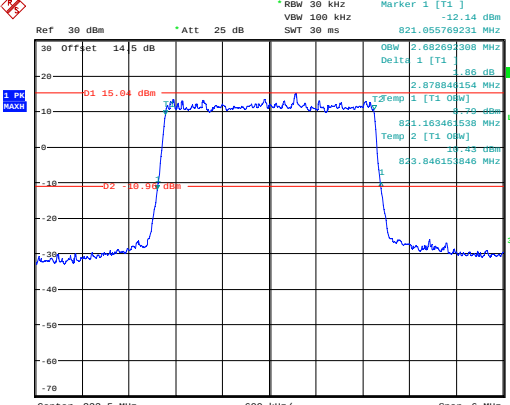
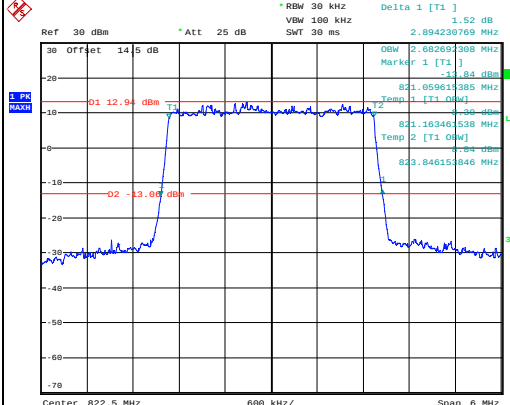
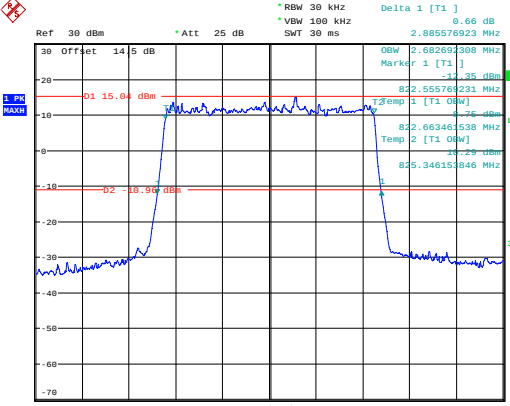
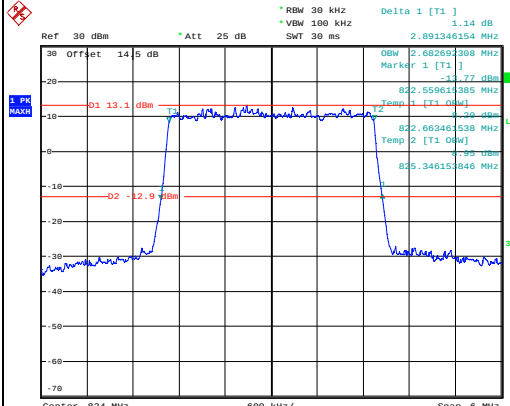
Channel

1.4MHz Bandwidth QPSK

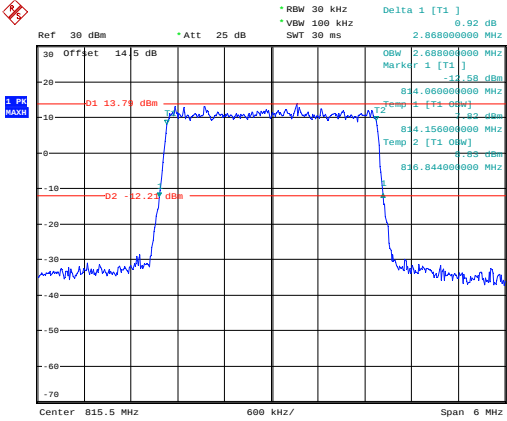
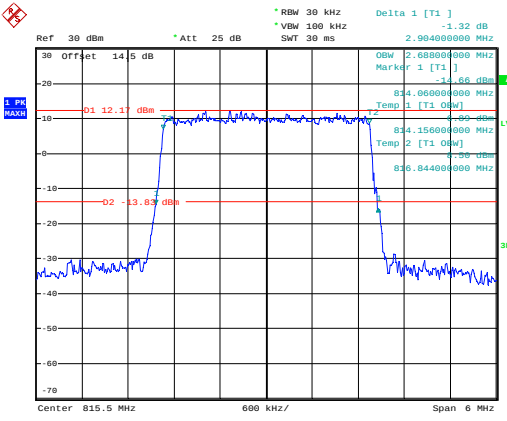
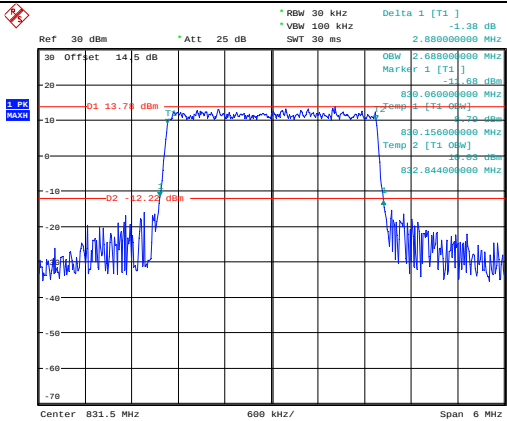
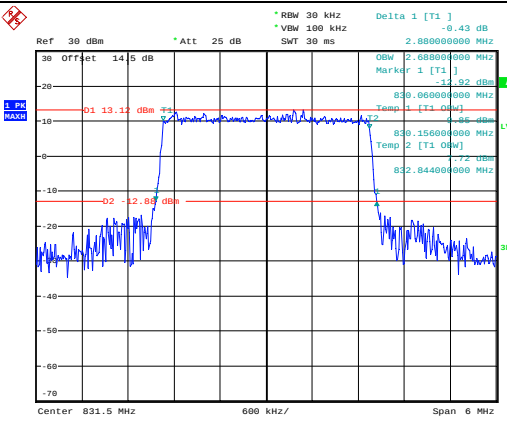
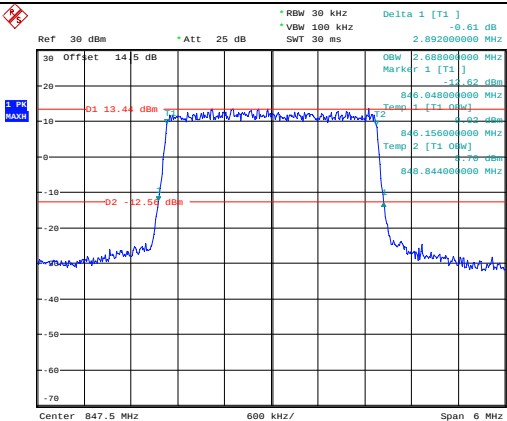
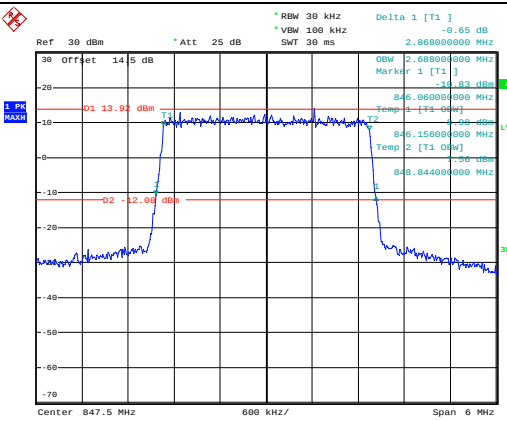
1.4MHz Bandwidth 16QAM

Lowest
For 22HMiddle
For 22HHighest
For 22H

Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 90S	 Ref 30 dBm *Att 25 dB Delta 1 [T1] 0.92 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.688000000 MHz Marker 1 [T1] 814.960000000 MHz 816.844000000 MHz Temp 1 [T1] 13.79 dBm Temp 2 [T1] 12.21 dBm Center 815.5 MHz 600 kHz/ Span 6 MHz Date: 8.JUL.2023 13:41:59	 Ref 30 dBm *Att 25 dB Delta 1 [T1] -1.32 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.688000000 MHz Marker 1 [T1] 814.960000000 MHz 816.844000000 MHz Temp 1 [T1] 12.1 dBm Temp 2 [T1] 13.83 dBm Center 815.5 MHz 600 kHz/ Span 6 MHz Date: 8.JUL.2023 13:42:23
Highest For 90S	 Ref 30 dBm *Att 25 dB Delta 1 [T1] -12.14 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.682692308 MHz Marker 1 [T1] 821.663461538 MHz 823.846153846 MHz Temp 1 [T1] 15.04 dBm Temp 2 [T1] 10.94 dBm Center 822.5 MHz 600 kHz/ Span 6 MHz Date: 10.JUL.2023 10:00:21	 Ref 30 dBm *Att 25 dB Delta 1 [T1] 1.52 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.682692308 MHz Marker 1 [T1] 821.663461538 MHz 823.846153846 MHz Temp 1 [T1] 12.94 dBm Temp 2 [T1] 13.08 dBm Center 822.5 MHz 600 kHz/ Span 6 MHz Date: 10.JUL.2023 09:57:27
Cross Channel	 Ref 30 dBm *Att 25 dB Delta 1 [T1] 0.66 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.685576923 MHz Marker 1 [T1] 822.555769231 MHz 825.346153846 MHz Temp 1 [T1] 15.04 dBm Temp 2 [T1] 10.94 dBm Center 824 MHz 600 kHz/ Span 6 MHz Date: 10.JUL.2023 09:30:10	 Ref 30 dBm *Att 25 dB Delta 1 [T1] 1.14 dB RBW 30 kHz VBW 100 kHz SWT 30 ms OBW 2.682692308 MHz Marker 1 [T1] 822.555769231 MHz 825.346153846 MHz Temp 1 [T1] 13.1 dBm Temp 2 [T1] 12.9 dBm Center 824 MHz 600 kHz/ Span 6 MHz Date: 10.JUL.2023 09:32:08

Occupied Bandwidth

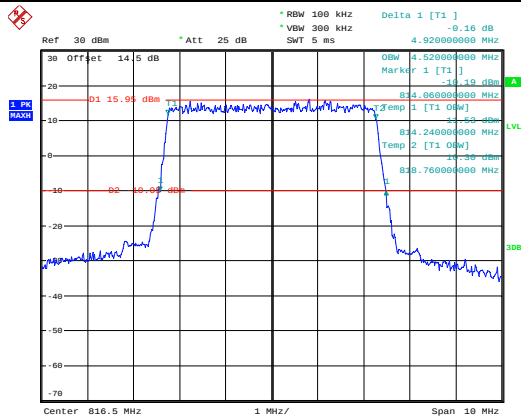
Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 22H	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 0.92 dB *VBW 100 kHz 2.68000000 MHz SWT 30 ms OBW 2.68000000 MHz Marker 1 [T1] -13.79 dBm D1 13.79 dBm D2 12.27 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 815.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:41:59	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -1.32 dB *VBW 100 kHz 2.90400000 MHz SWT 30 ms OBW 2.90400000 MHz Marker 1 [T1] -12.1 dBm D1 12.1 dBm D2 13.83 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 815.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:42:23
Middle For 22H	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -1.38 dB *VBW 100 kHz 2.88000000 MHz SWT 30 ms OBW 2.88000000 MHz Marker 1 [T1] -13.79 dBm D1 13.79 dBm D2 12.27 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 831.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:42:50	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.43 dB *VBW 100 kHz 2.88000000 MHz SWT 30 ms OBW 2.88000000 MHz Marker 1 [T1] -13.12 dBm D1 13.12 dBm D2 12.88 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 831.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:43:23
Highest For 22H	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.61 dB *VBW 100 kHz 2.69200000 MHz SWT 30 ms OBW 2.69200000 MHz Marker 1 [T1] -13.44 dBm D1 13.44 dBm D2 12.57 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 847.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:43:41	 Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.65 dB *VBW 100 kHz 2.68000000 MHz SWT 30 ms OBW 2.68000000 MHz Marker 1 [T1] -13.92 dBm D1 13.92 dBm D2 12.88 dBm Temp 1 [T1] 0.92 dB Temp 2 [T1] 0.92 dB Center 847.5 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 13:43:57

Occupied Bandwidth

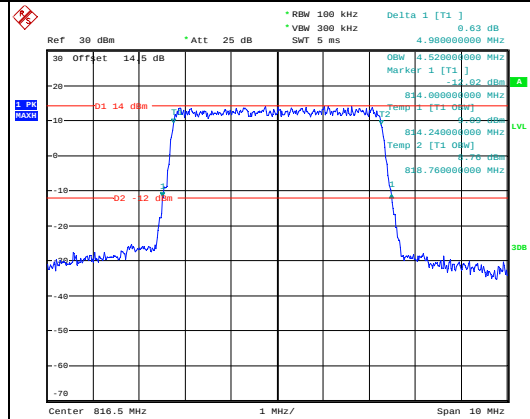
Channel

5MHz Bandwidth QPSK

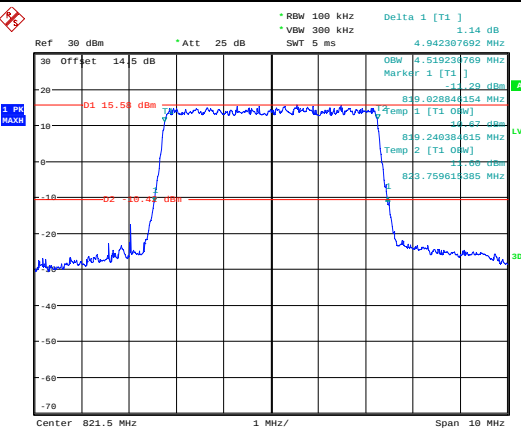
5MHz Bandwidth 16QAM

Lowest
For 90S

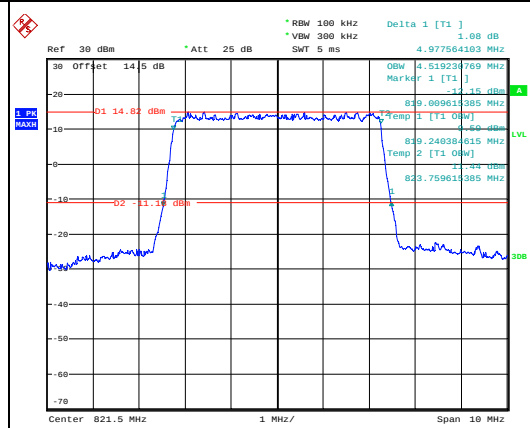
Date: 8.JUL.2023 13:51:10



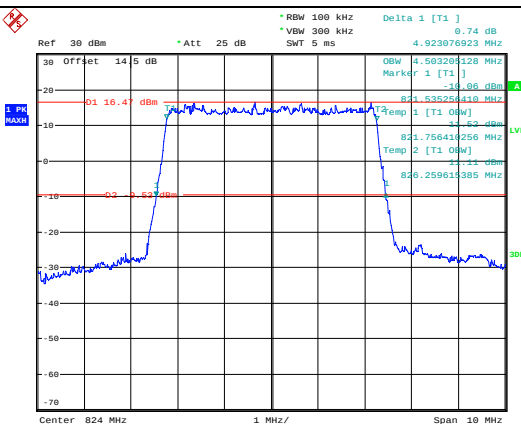
Date: 8.JUL.2023 14:03:38

Highest
For 90S

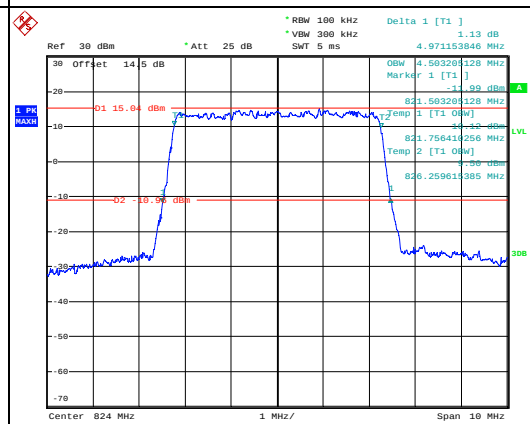
Date: 10.JUL.2023 10:21:13



Date: 10.JUL.2023 10:20:07

Cross
Channel

Date: 10.JUL.2023 10:22:53



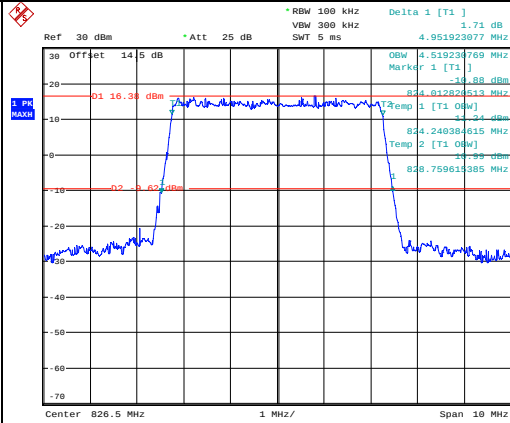
Date: 10.JUL.2023 10:24:39

Occupied Bandwidth

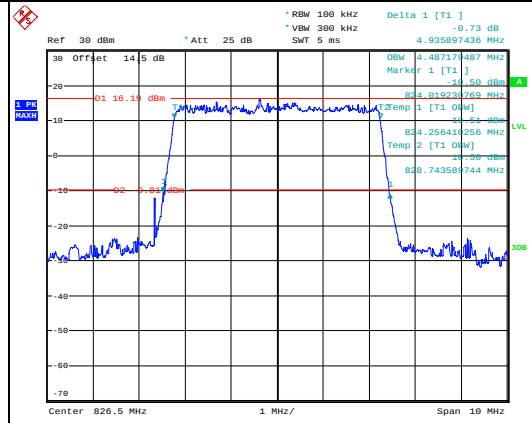
Channel

5MHz Bandwidth QPSK

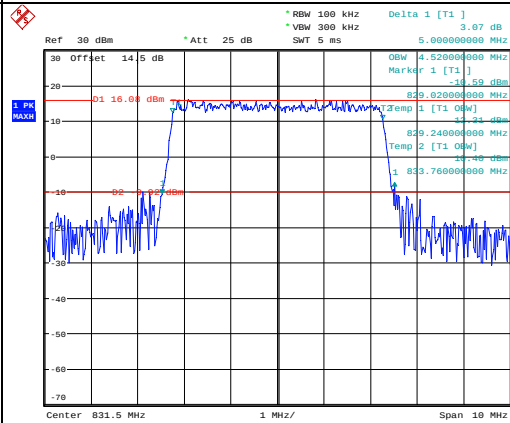
5MHz Bandwidth 16QAM

Lowest
For 22H

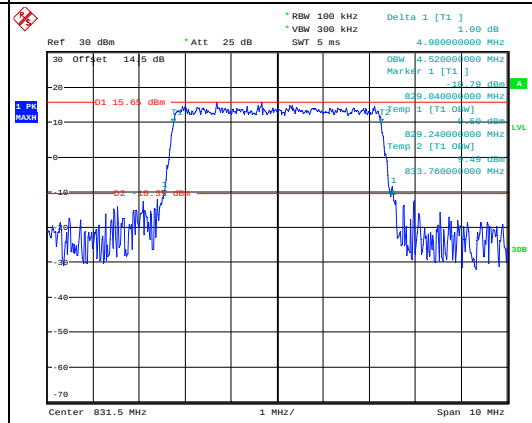
Date: 10.JUL.2023 10:07:52



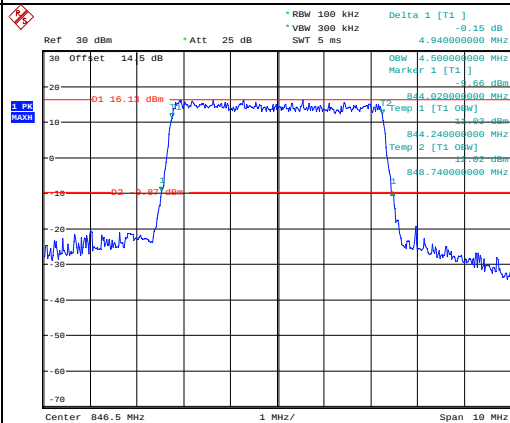
Date: 10.JUL.2023 10:16:46

Middle
For 22H

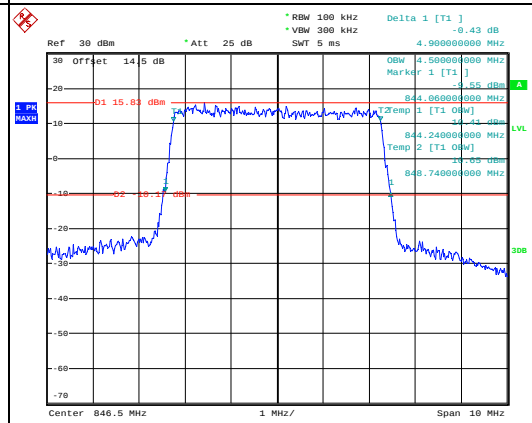
Date: 8.JUL.2023 14:04:13



Date: 8.JUL.2023 14:04:56

Highest
For 22H

Date: 8.JUL.2023 14:05:23



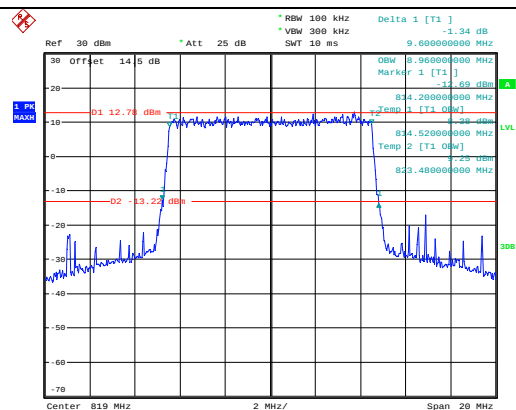
Date: 8.JUL.2023 14:05:43

Occupied Bandwidth

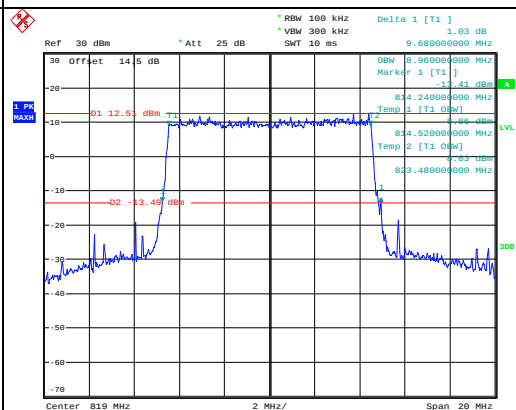
Channel

10MHz Bandwidth QPSK

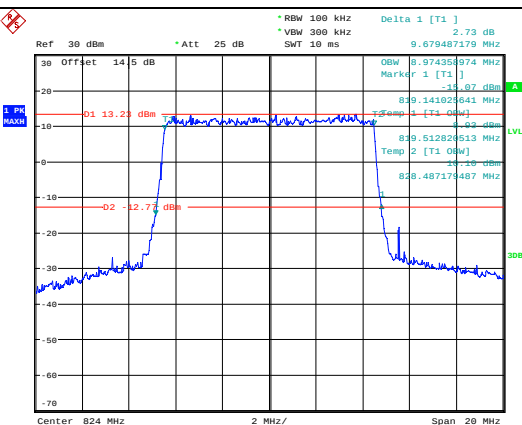
10MHz Bandwidth 16QAM

Lowest
For 90S

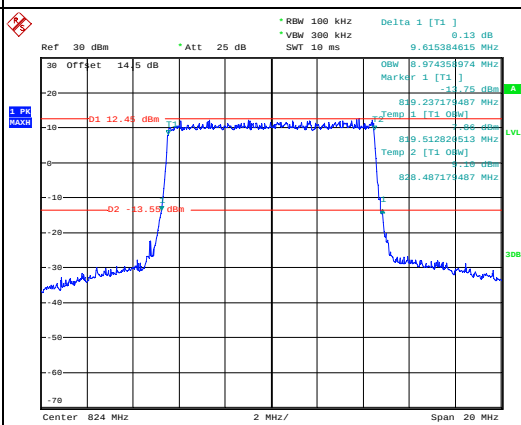
Date: 8.JUL.2023 14:08:49



Date: 8.JUL.2023 14:09:16

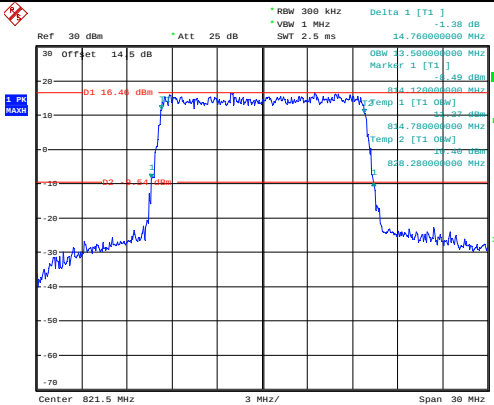
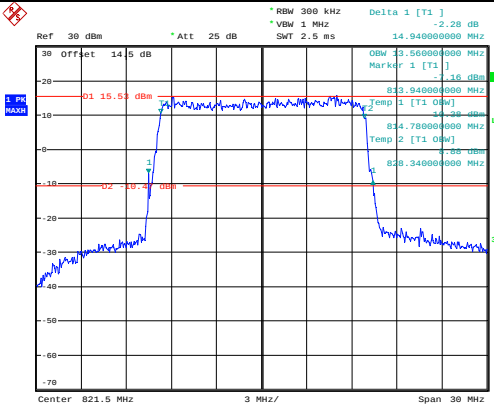
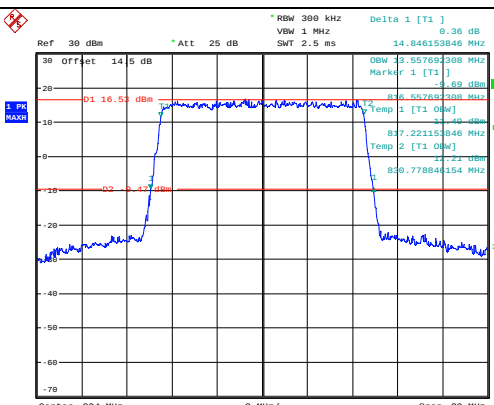
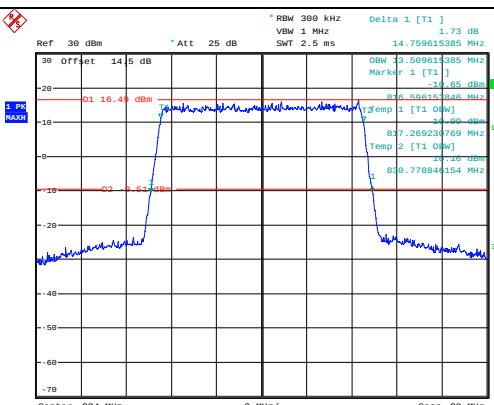
Cross
Channel

Date: 10.JUL.2023 10:26:17



Date: 10.JUL.2023 10:27:36

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Middle For 90S	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SMT: 2.5 ms, Delta 1 [T1]: 0.36 dB, Marker 1 [T1]: 821.500000000 MHz, Level 1 [T1]: -16.44 dBm, Level 2 [T1]: -130.00 dBm, Level 3 [T1]: -14.50 dBm, Center: 821.5 MHz, Span: 30 MHz, Date: 8.JUL.2023 14:11:25	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SMT: 2.5 ms, Delta 1 [T1]: 1.73 dB, Marker 1 [T1]: 821.500000000 MHz, Level 1 [T1]: -15.53 dBm, Level 2 [T1]: -130.00 dBm, Level 3 [T1]: -14.50 dBm, Center: 821.5 MHz, Span: 30 MHz, Date: 8.JUL.2023 14:11:45
Cross Channel	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SMT: 2.5 ms, Delta 1 [T1]: 0.36 dB, Marker 1 [T1]: 824.000000000 MHz, Level 1 [T1]: -16.53 dBm, Level 2 [T1]: -130.00 dBm, Level 3 [T1]: -14.50 dBm, Center: 824 MHz, Span: 30 MHz, Date: 10.JUL.2023 10:56:22	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SMT: 2.5 ms, Delta 1 [T1]: 1.73 dB, Marker 1 [T1]: 824.000000000 MHz, Level 1 [T1]: -16.49 dBm, Level 2 [T1]: -130.00 dBm, Level 3 [T1]: -14.50 dBm, Center: 824 MHz, Span: 30 MHz, Date: 10.JUL.2023 10:54:47

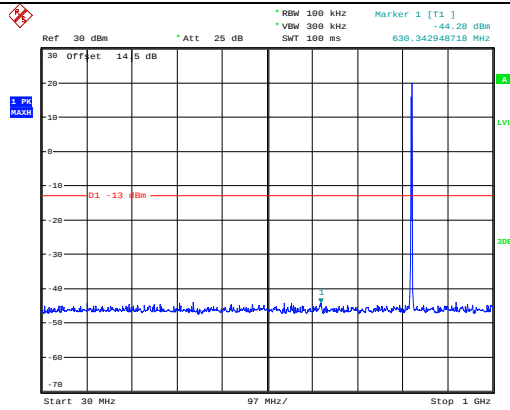
Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest For 22H	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 0.03 dB VBW 1 MHz SWT 2.5 ms 14.86889744 MHz Marker 1 [T1] 14.86889744 MHz Temp 1 [T1] 17.43 dBm Temp 2 [T1] 0.00 dBm Center 836.5 MHz 3 MHz/ Span 30 MHz Date: 10.JUL.2023 10:43:22	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 3.00 dB VBW 1 MHz SWT 2.5 ms 14.839743590 MHz Marker 1 [T1] 14.839743590 MHz Temp 1 [T1] 16.38 dBm Temp 2 [T1] 0.00 dBm Center 836.5 MHz 3 MHz/ Span 30 MHz Date: 10.JUL.2023 10:41:40
Middle For 22H	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 0.41 dB VBW 1 MHz SWT 2.5 ms 15.690000000 MHz Marker 1 [T1] 15.690000000 MHz Temp 1 [T1] 16.85 dBm Temp 2 [T1] 0.00 dBm Center 831.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:12:06	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 0.65 dB VBW 1 MHz SWT 2.5 ms 14.760000000 MHz Marker 1 [T1] 14.760000000 MHz Temp 1 [T1] 15.52 dBm Temp 2 [T1] 0.00 dBm Center 831.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:12:26
Highest For 22H	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 1.71 dB VBW 1 MHz SWT 2.5 ms 14.790000000 MHz Marker 1 [T1] 14.790000000 MHz Temp 1 [T1] 17.07 dBm Temp 2 [T1] 0.00 dBm Center 841.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:12:47	Ref 30 dBm * Att 25 dB * RBW 300 kHz Delta 1 [T1] 1.58 dB VBW 1 MHz SWT 2.5 ms 14.790000000 MHz Marker 1 [T1] 14.790000000 MHz Temp 1 [T1] 16.38 dBm Temp 2 [T1] 0.00 dBm Center 841.5 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 14:13:06

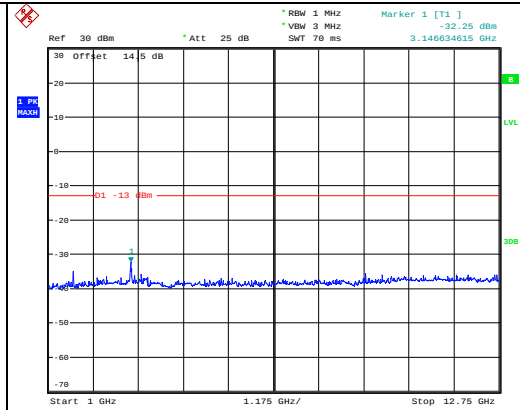
Spurious Emissions at Antenna Terminal

Channel

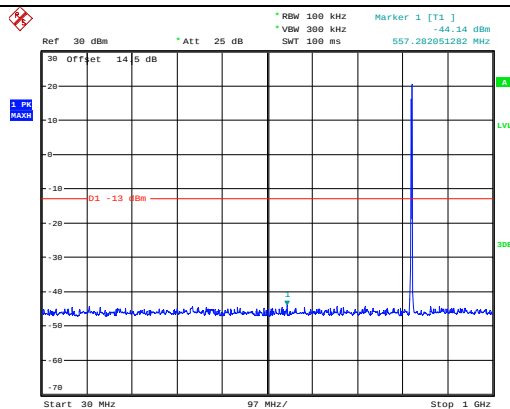
1.4MHz Bandwidth QPSK

Lowest
For 90S

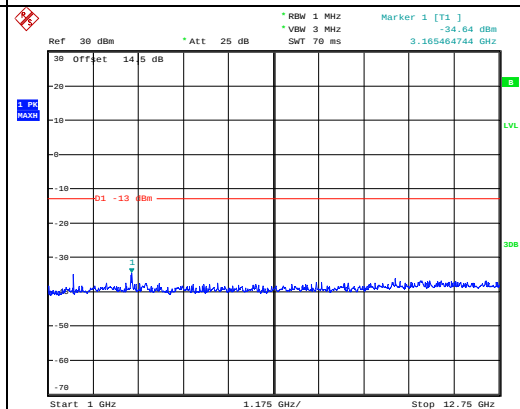
Date: 10.JUL.2023 11:36:54



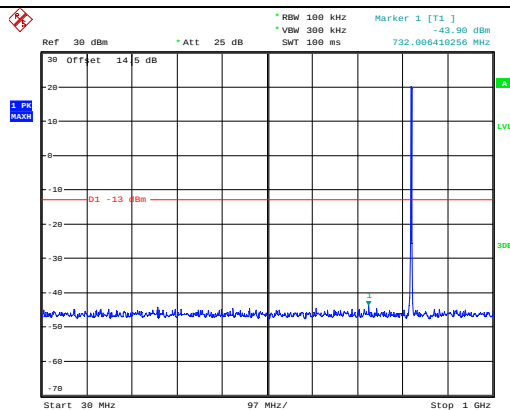
Date: 10.JUL.2023 11:37:38

Highest
For 90S

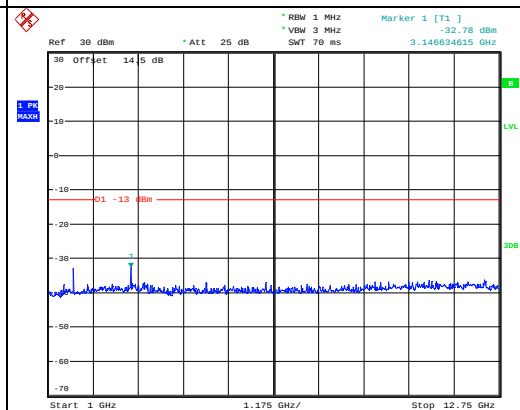
Date: 10.JUL.2023 11:39:18



Date: 10.JUL.2023 11:38:32

Cross
Channel

Date: 10.JUL.2023 11:39:59

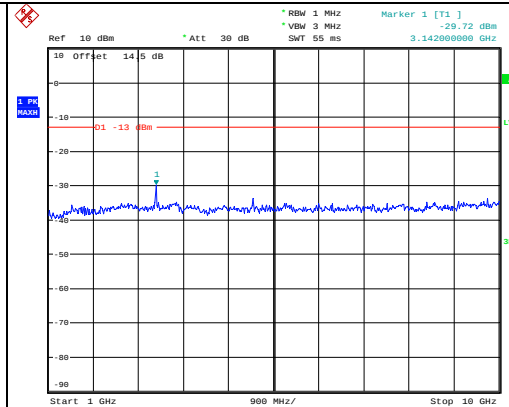
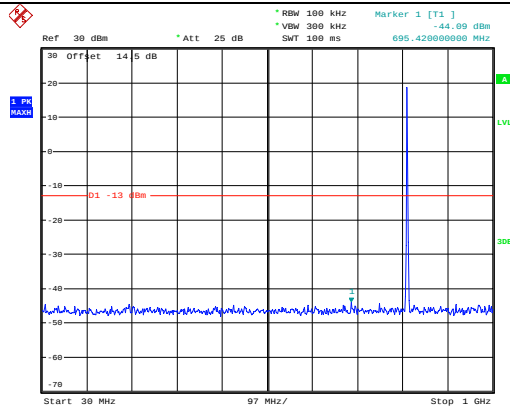
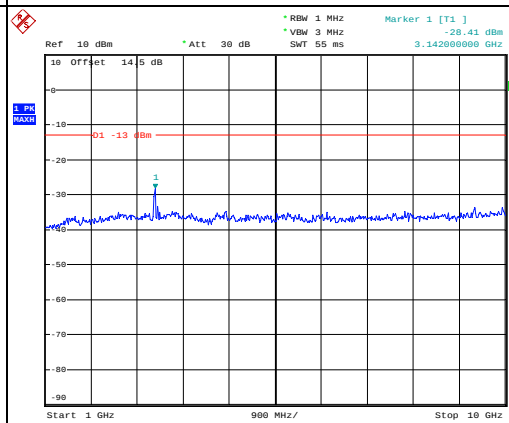
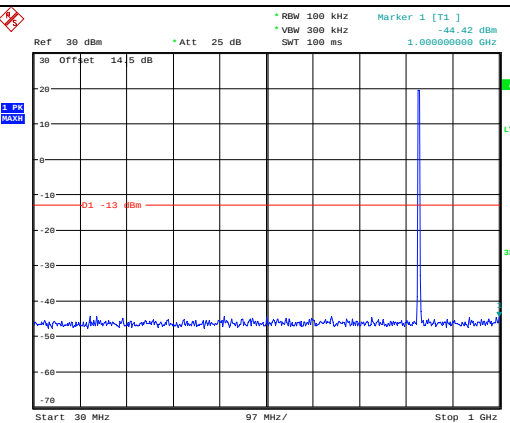
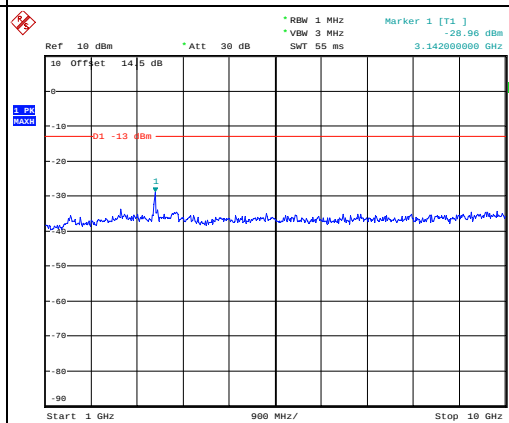
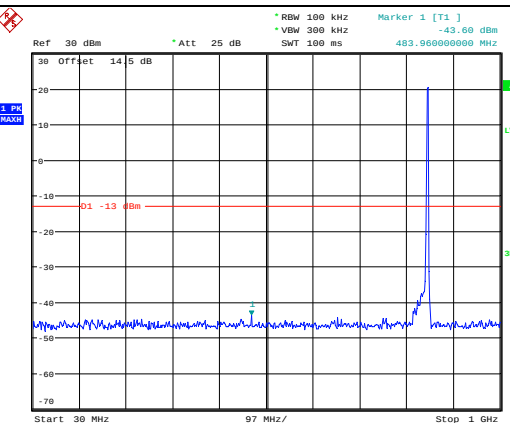


Date: 10.JUL.2023 11:40:13

Spurious Emissions at Antenna Terminal

Channel

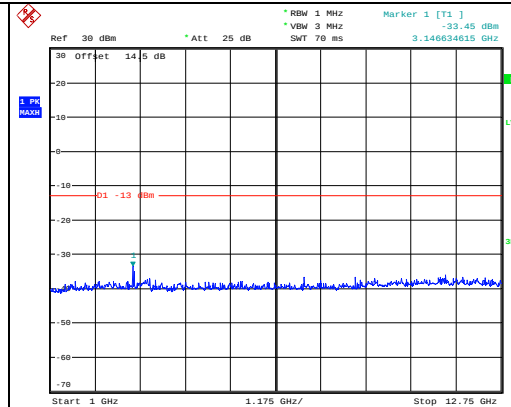
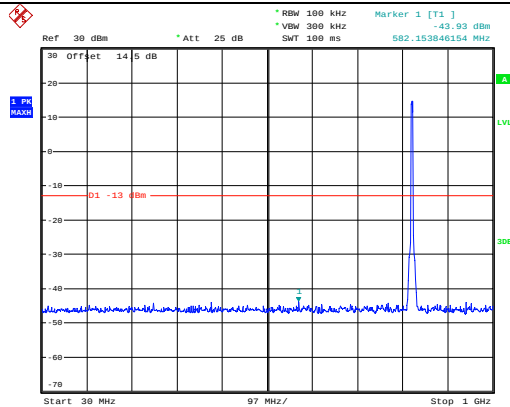
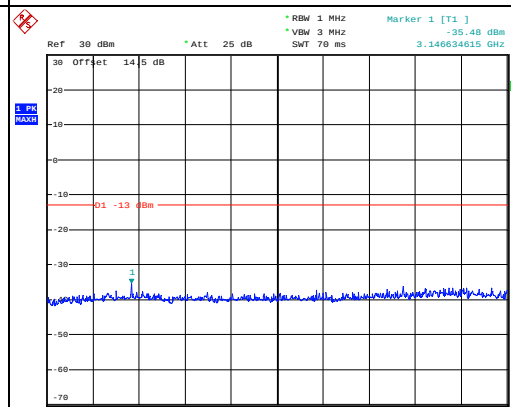
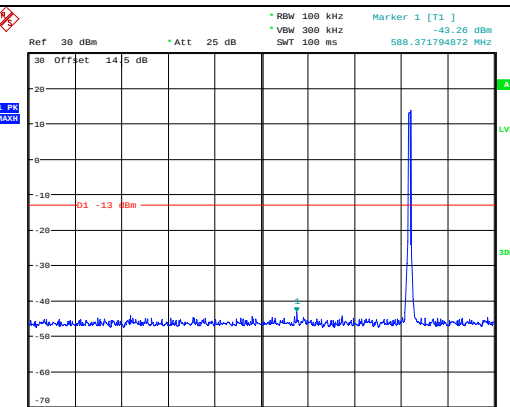
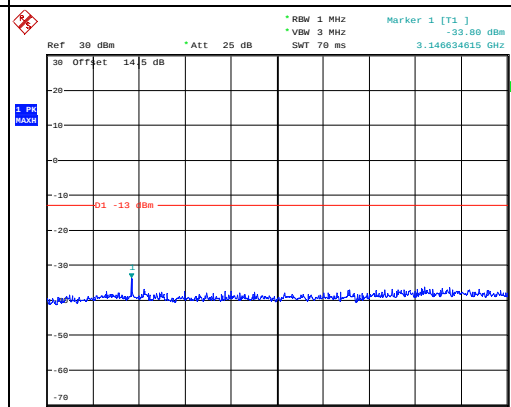
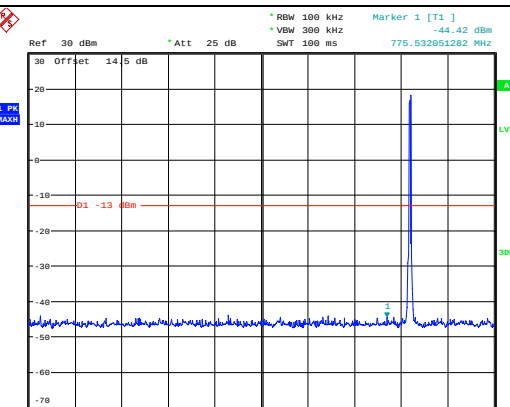
1.4MHz Bandwidth QPSK

Lowest
For 22HMiddle
For 22HHighest
For 22H

Spurious Emissions at Antenna Terminal

Channel

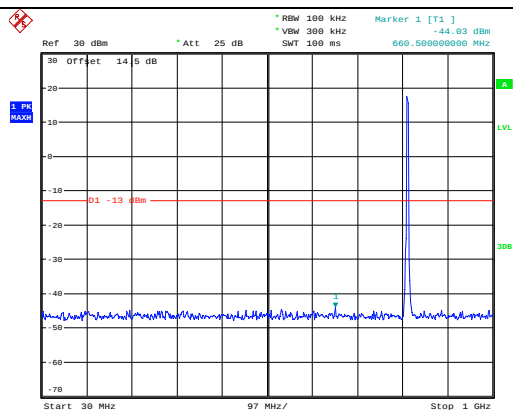
3MHz Bandwidth QPSK

Lowest
For 90SHighest
For 90SCross
Channel

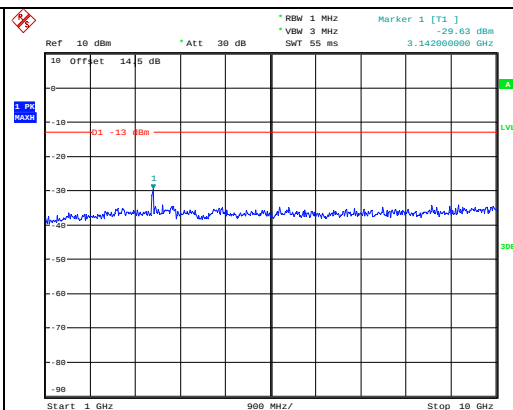
Spurious Emissions at Antenna Terminal

Channel

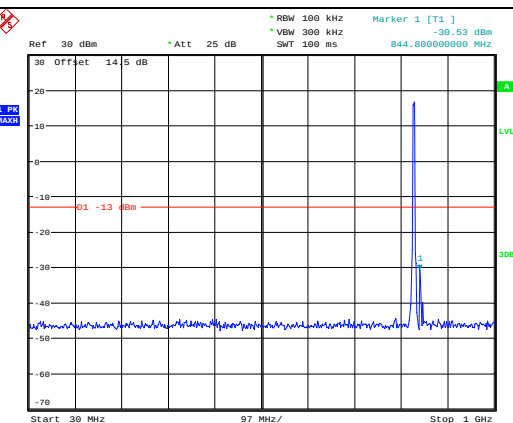
3MHz Bandwidth QPSK

Lowest
For 22H

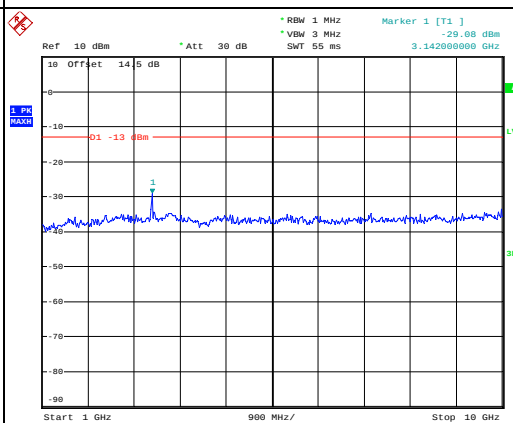
Date: 8.JUL.2023 16:02:12



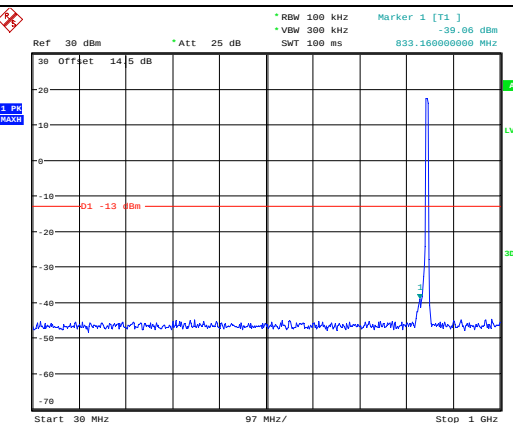
Date: 8.JUL.2023 16:02:25

Middle
For 22H

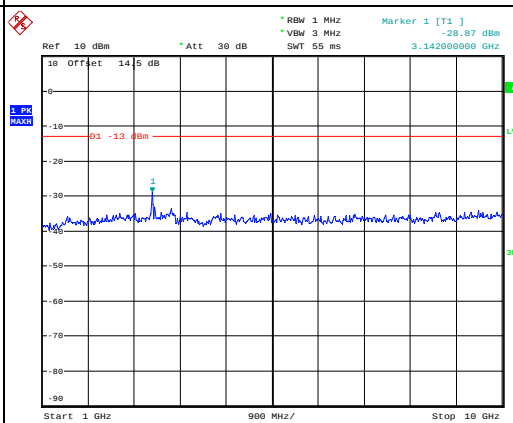
Date: 8.JUL.2023 16:02:43



Date: 8.JUL.2023 16:02:56

Highest
For 22H

Date: 8.JUL.2023 16:09:54

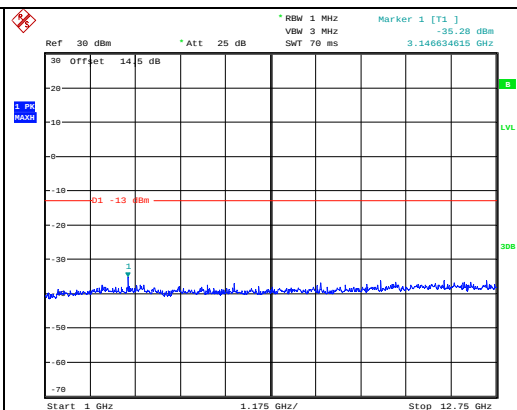
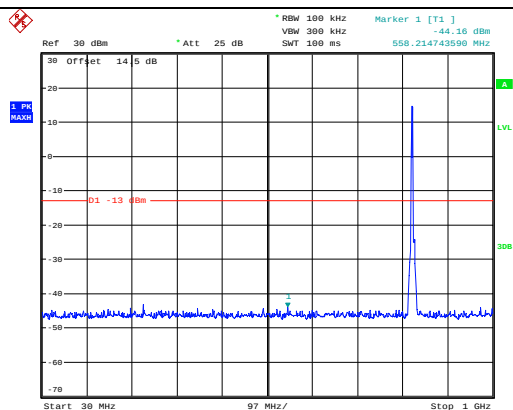
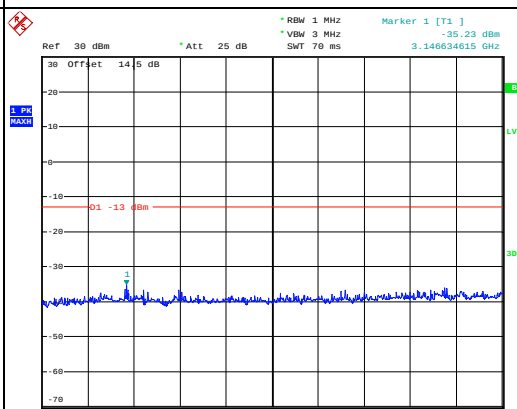
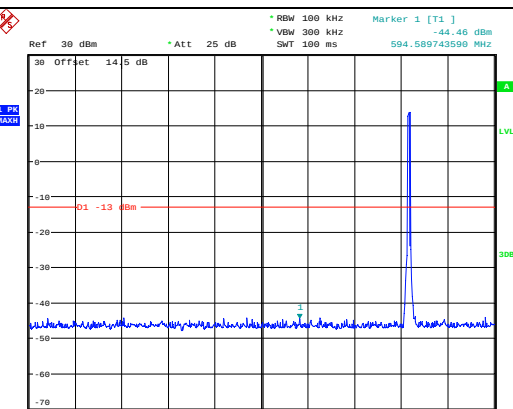
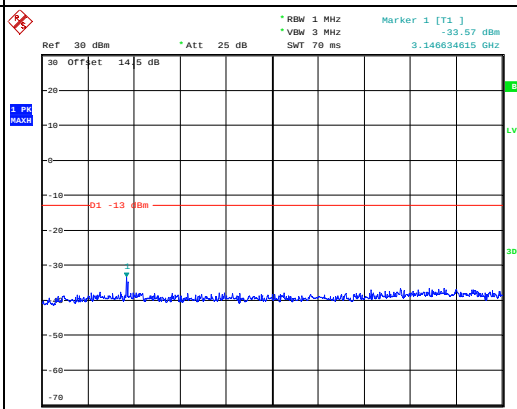
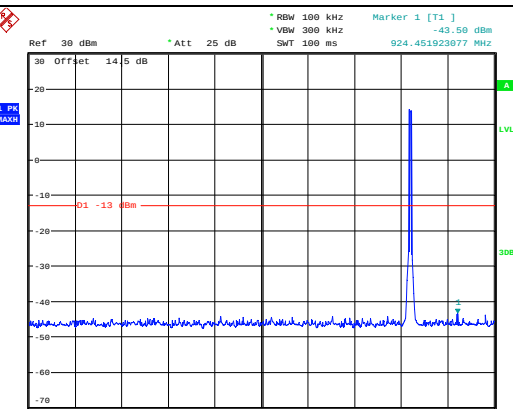


Date: 8.JUL.2023 16:10:07

Spurious Emissions at Antenna Terminal

Channel

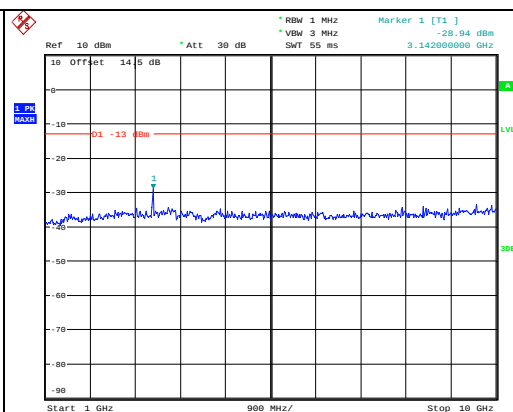
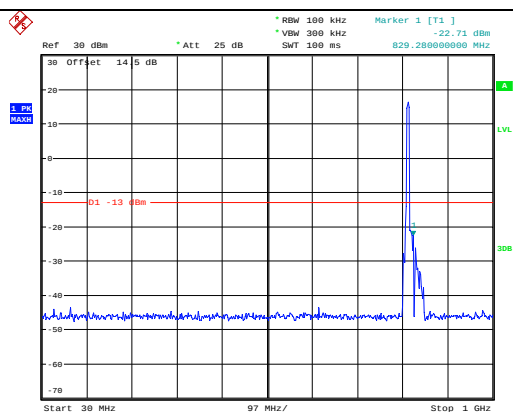
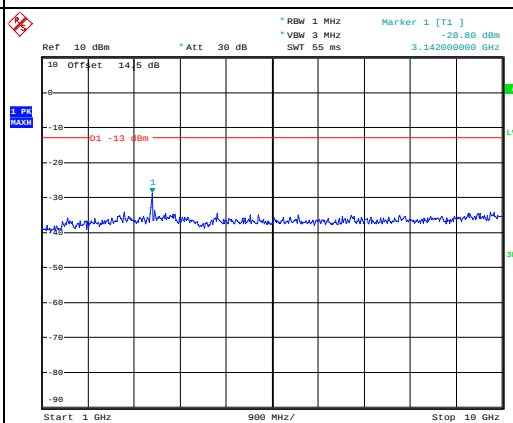
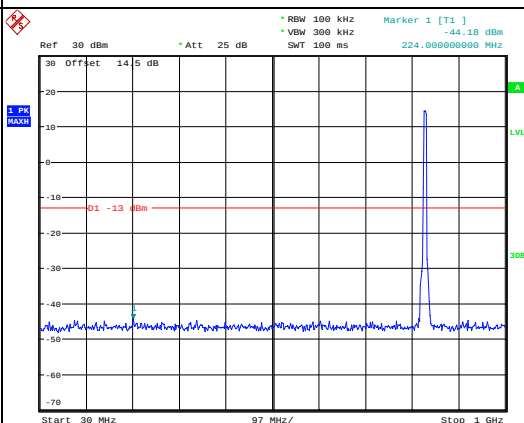
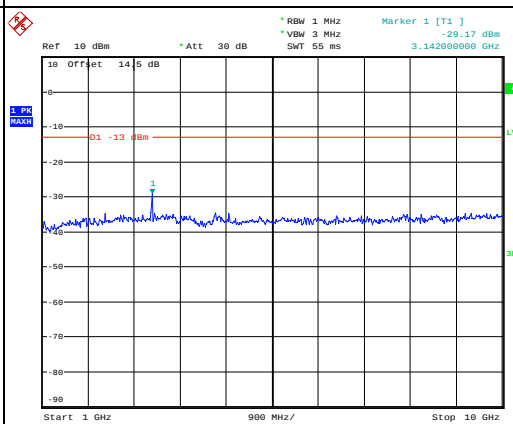
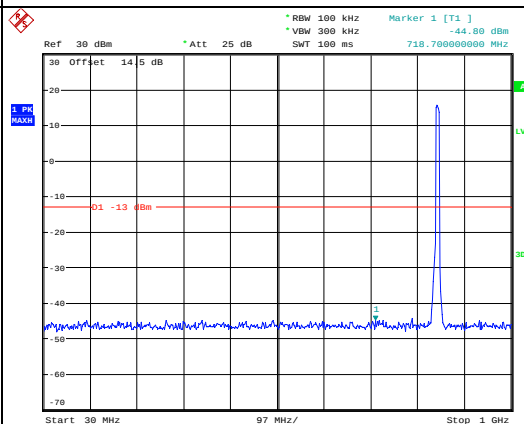
5MHz Bandwidth QPSK

Lowest
For 90SHighest
For 90SCross
Channel

Spurious Emissions at Antenna Terminal

Channel

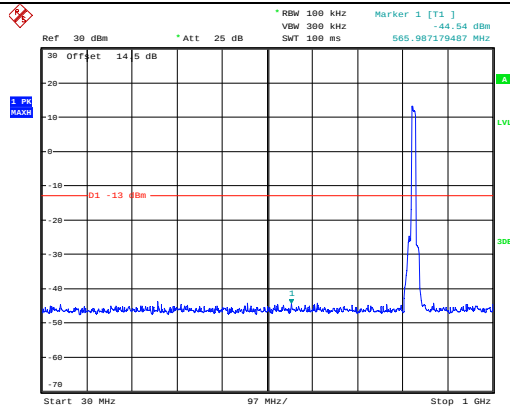
5MHz Bandwidth QPSK

Lowest
For 22HMiddle
For 22HHighest
For 22H

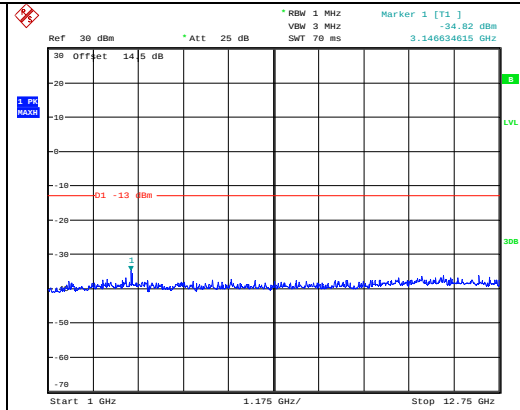
Spurious Emissions at Antenna Terminal

Channel

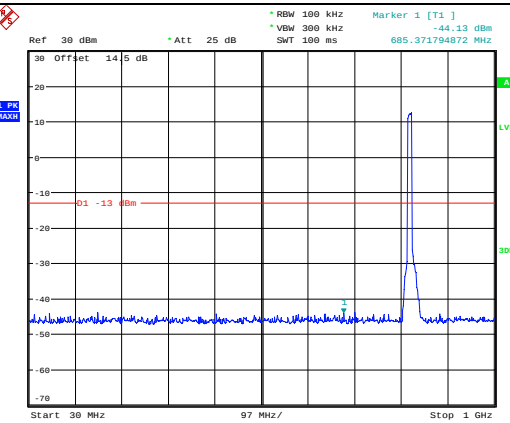
10MHz Bandwidth QPSK

Lowest
For 90S

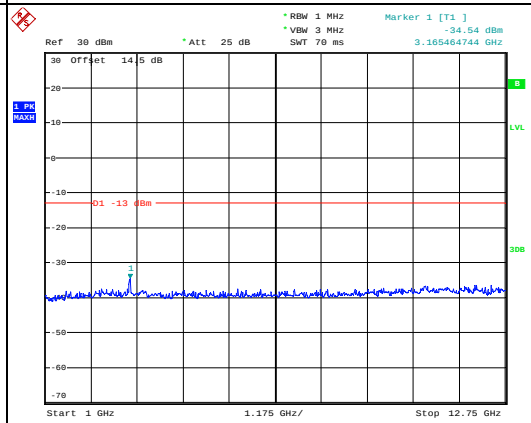
Date: 10.JUL.2023 13:01:47



Date: 10.JUL.2023 13:02:07

Cross
Channel

Date: 10.JUL.2023 11:43:34

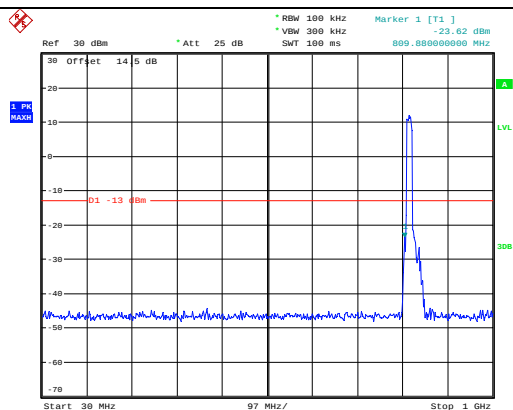


Date: 10.JUL.2023 11:42:42

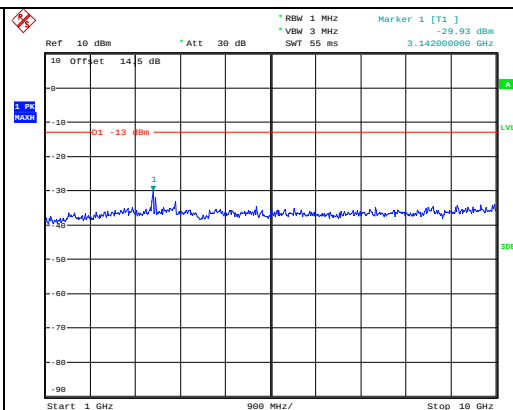
Spurious Emissions at Antenna Terminal

Channel

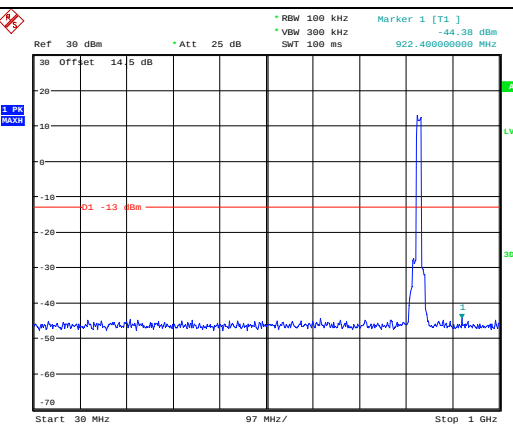
10MHz Bandwidth QPSK

Lowest
For 22H

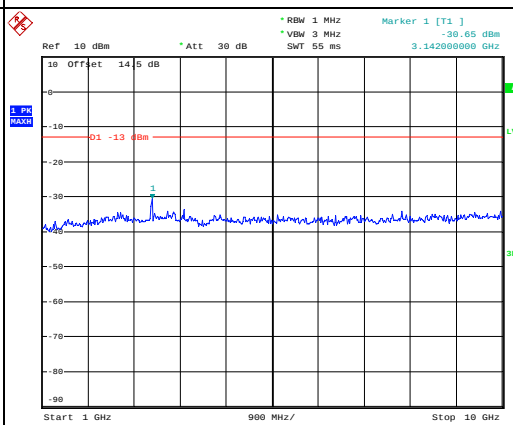
Date: 8.JUL.2023 16:12:58



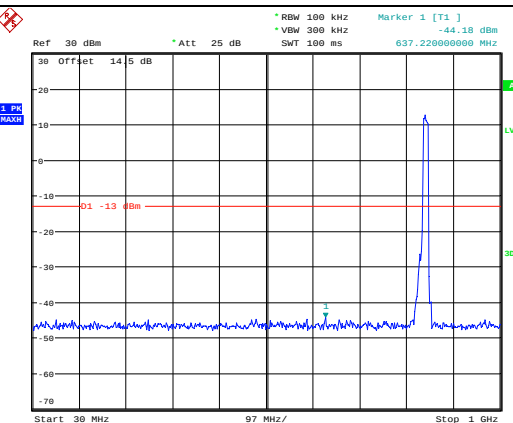
Date: 8.JUL.2023 16:13:11

Middle
For 22H

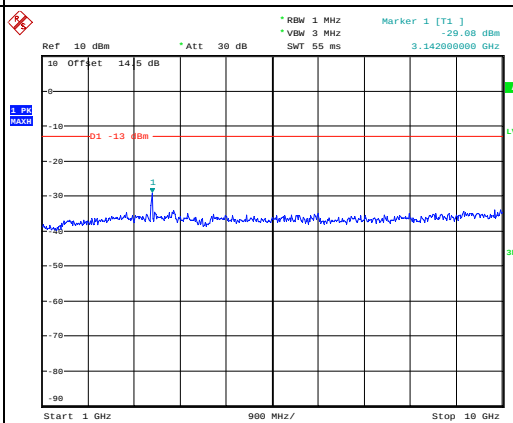
Date: 8.JUL.2023 16:13:29



Date: 8.JUL.2023 16:13:42

Highest
For 22H

Date: 8.JUL.2023 16:13:57

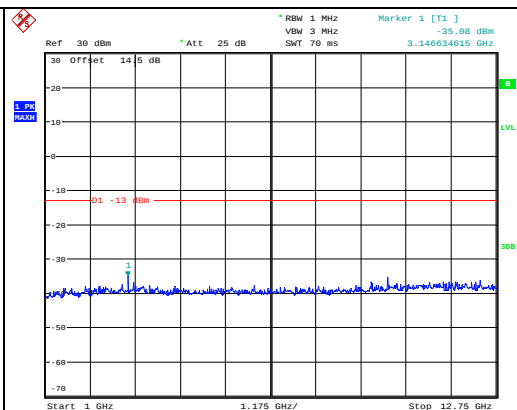
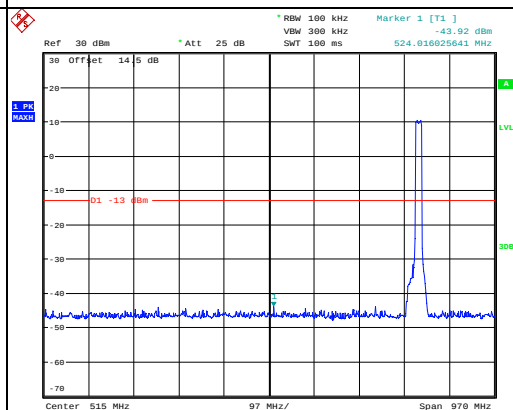
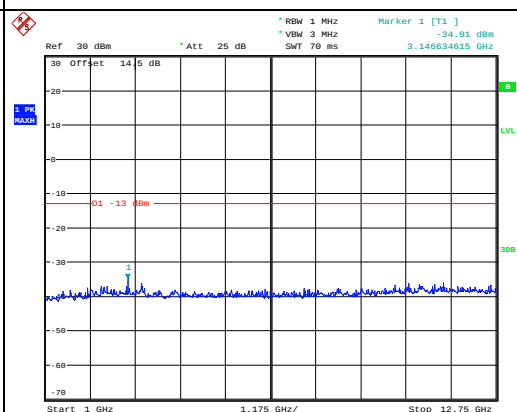
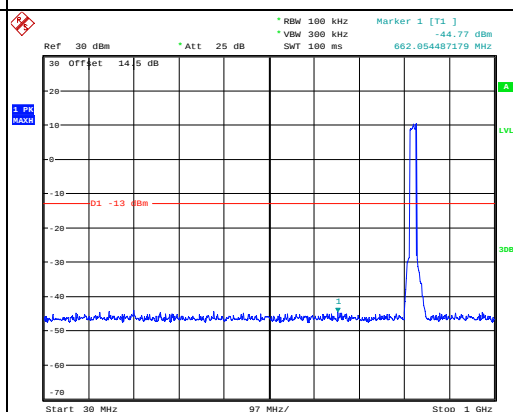


Date: 8.JUL.2023 16:14:10

Spurious Emissions at Antenna Terminal

Channel

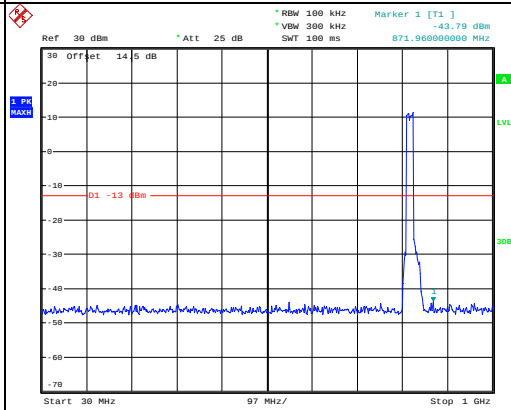
15MHz Bandwidth QPSK

Lowest
For 90SCross
Channel

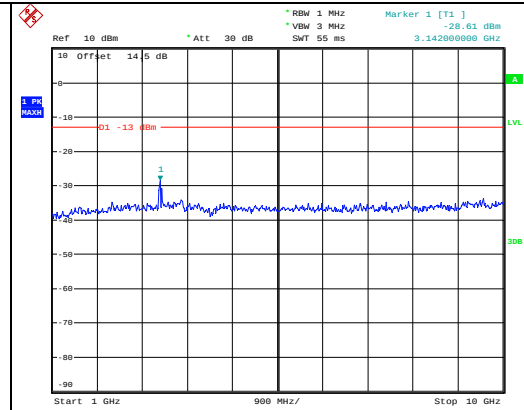
Spurious Emissions at Antenna Terminal

Channel

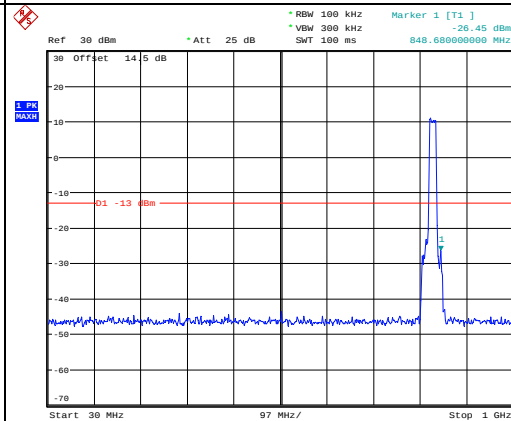
15MHz Bandwidth QPSK

Lowest
For 22H

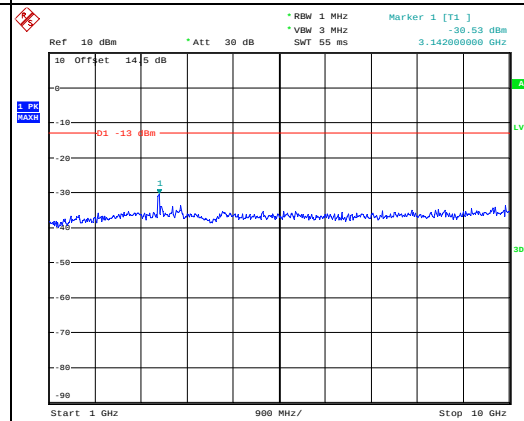
Date: 8.JUL.2023 16:25:28



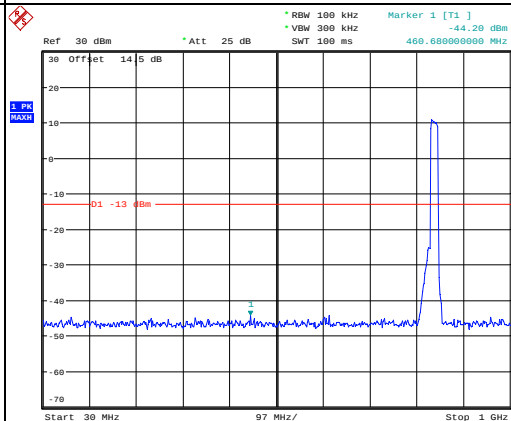
Date: 8.JUL.2023 16:25:41

Middle
For 22H

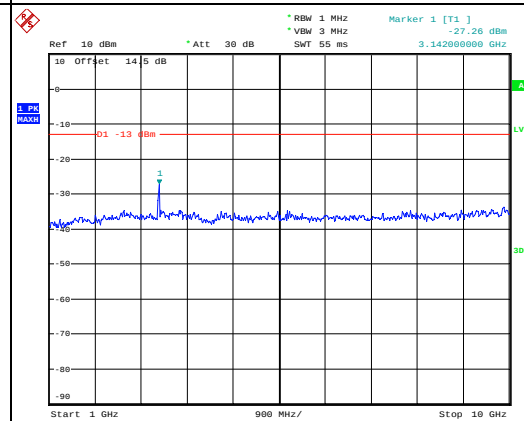
Date: 8.JUL.2023 16:25:59



Date: 8.JUL.2023 16:26:12

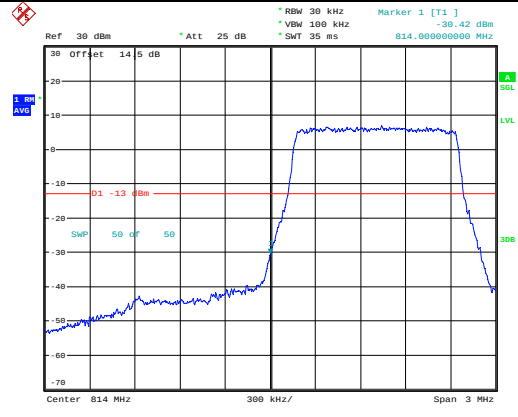
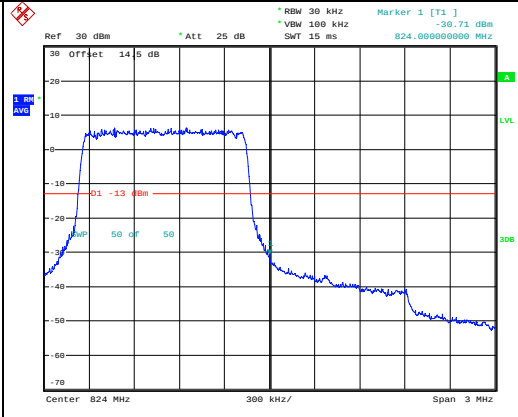
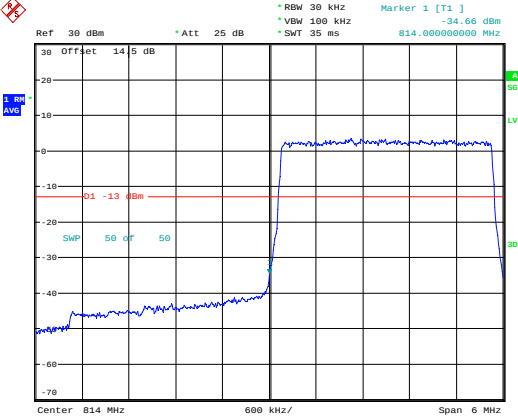
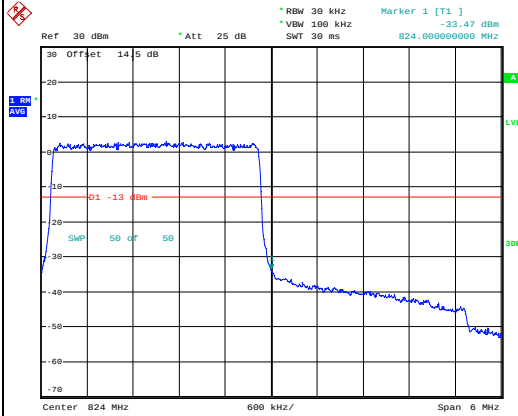
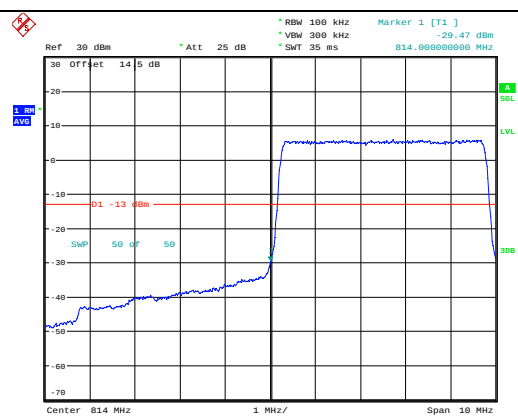
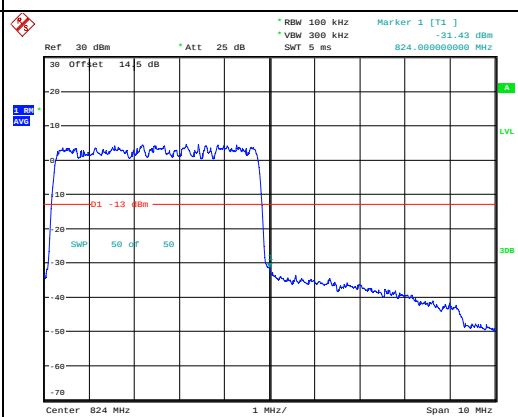
Highest
For 22H

Date: 8.JUL.2023 16:26:27

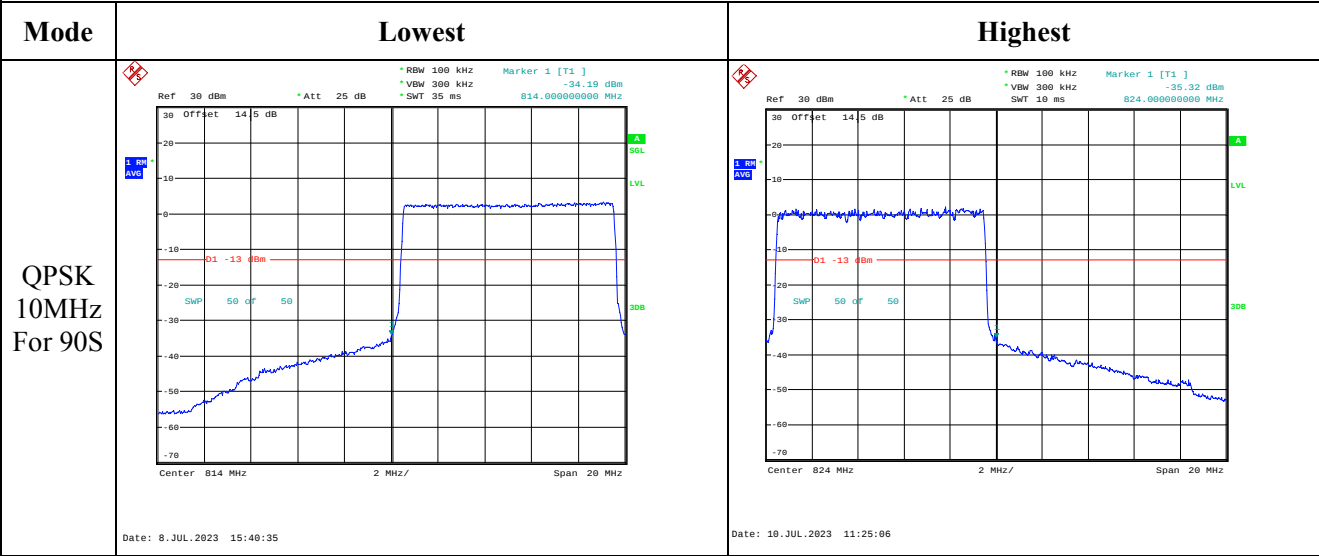


Date: 8.JUL.2023 16:26:40

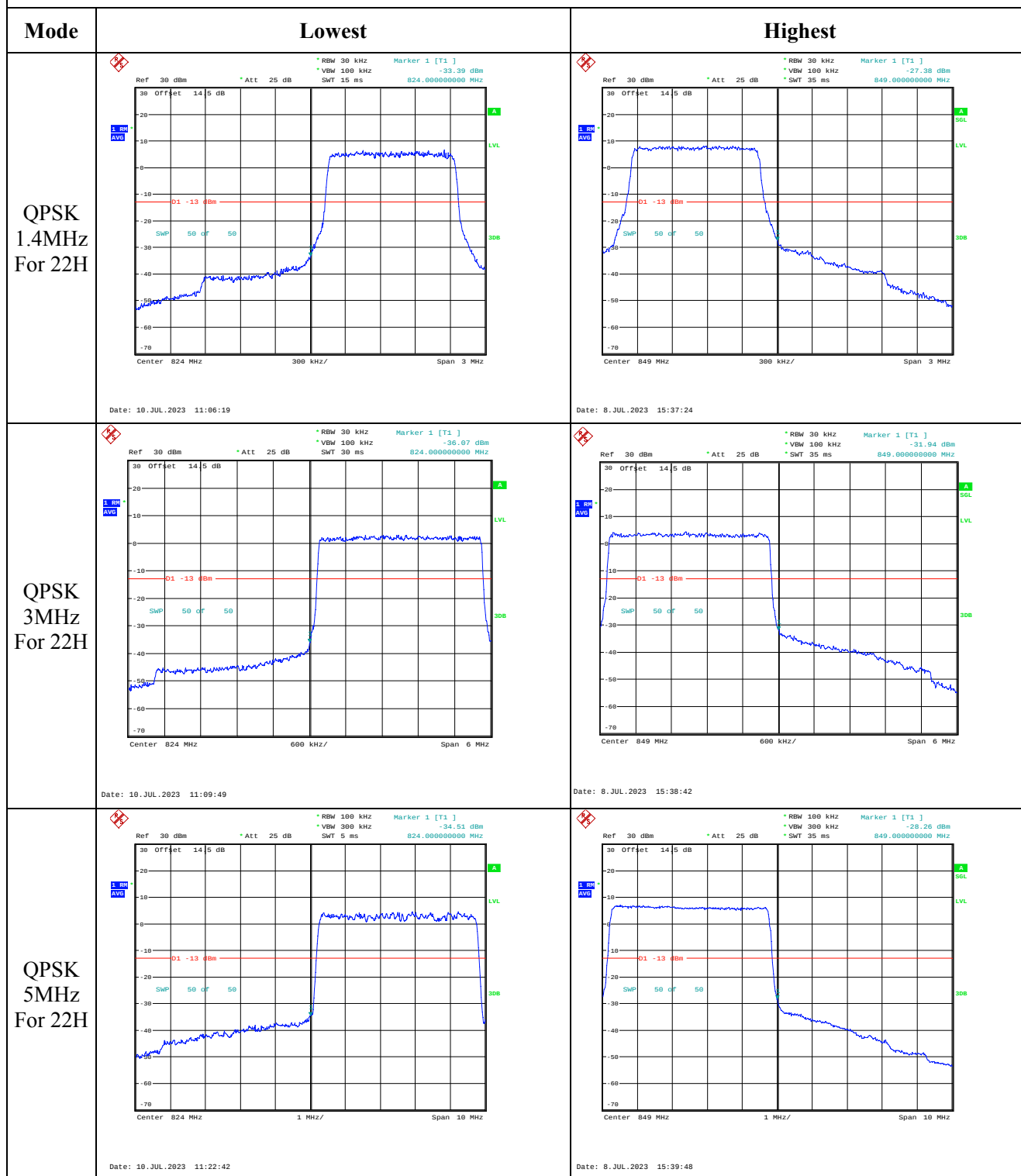
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz For 90S	 Ref 30 dBm Att 25 dB RBW 30 kHz VSW 100 kHz SWT 35 ms Marker 1 [T1] -30.42 dBm 814.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 814 MHz 300 kHz/ Span 3 MHz Date: 8 JUL 2023 15:37:05	 Ref 30 dBm Att 25 dB RBW 30 kHz VSW 100 kHz SWT 15 ms Marker 1 [T1] -30.71 dBm 824.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 824 MHz 300 kHz/ Span 3 MHz Date: 10 JUL 2023 11:05:20
QPSK 3MHz For 90S	 Ref 30 dBm Att 25 dB RBW 30 kHz VSW 100 kHz SWT 35 ms Marker 1 [T1] -34.66 dBm 814.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 814 MHz 600 kHz/ Span 6 MHz Date: 8 JUL 2023 15:38:22	 Ref 30 dBm Att 25 dB RBW 30 kHz VSW 100 kHz SWT 30 ms Marker 1 [T1] -33.47 dBm 824.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 824 MHz 600 kHz/ Span 6 MHz Date: 10 JUL 2023 11:07:56
QPSK 5MHz For 90S	 Ref 30 dBm Att 25 dB RBW 100 kHz VSW 300 kHz SWT 35 ms Marker 1 [T1] -29.47 dBm 814.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 814 MHz 1 MHz/ Span 10 MHz Date: 8 JUL 2023 15:39:27	 Ref 30 dBm Att 25 dB RBW 100 kHz VSW 300 kHz SWT 5 ms Marker 1 [T1] -31.43 dBm 824.000000000 MHz 30 Offset 14.5 dB SWP 50 OF 50 Center 824 MHz 1 MHz/ Span 10 MHz Date: 10 JUL 2023 11:11:57

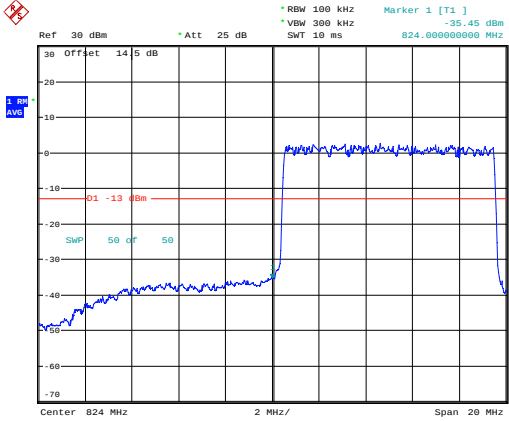
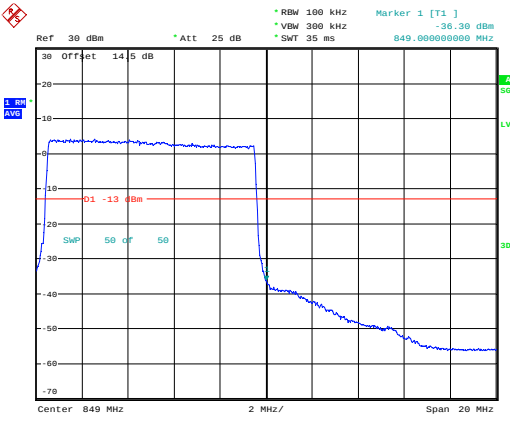
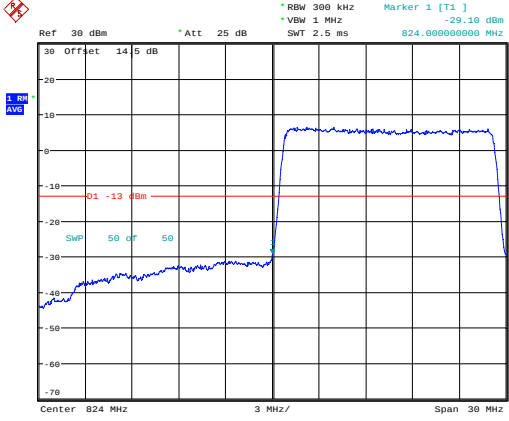
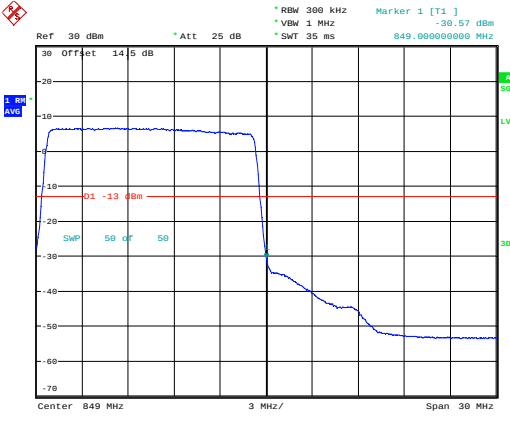
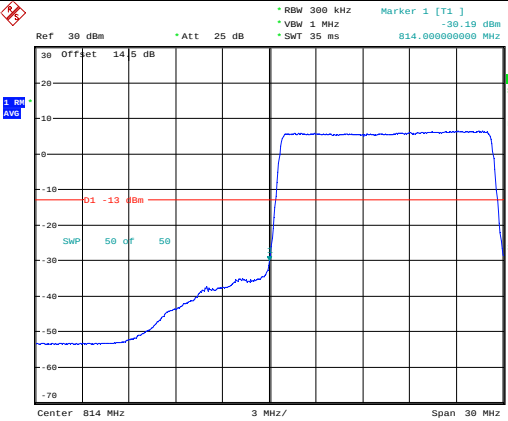
Out of band emission, Band Edge



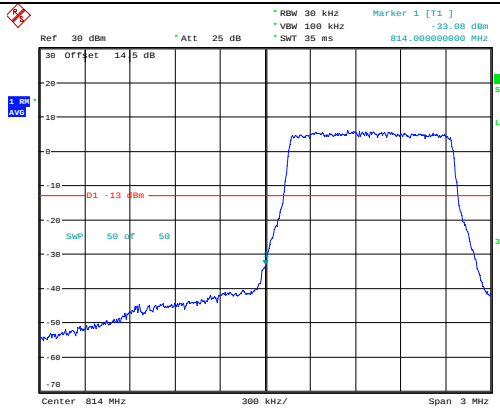
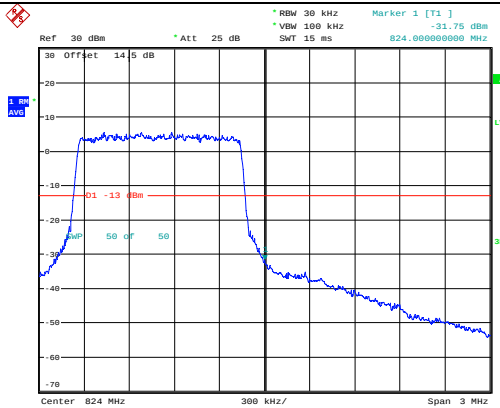
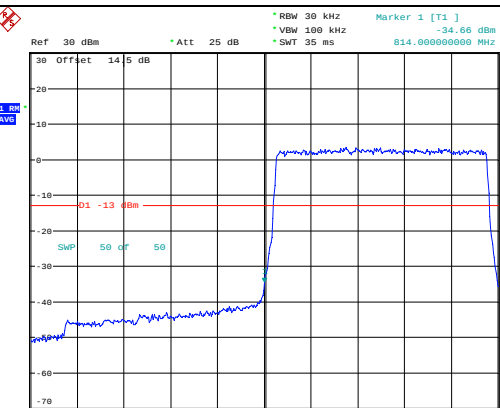
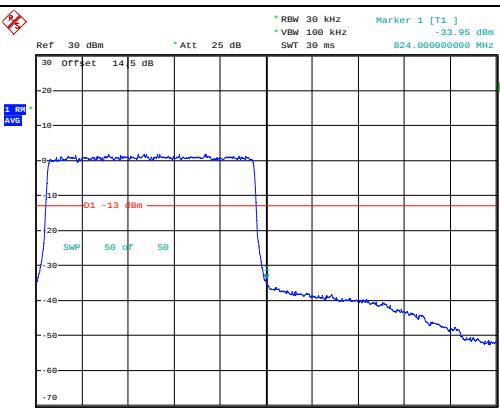
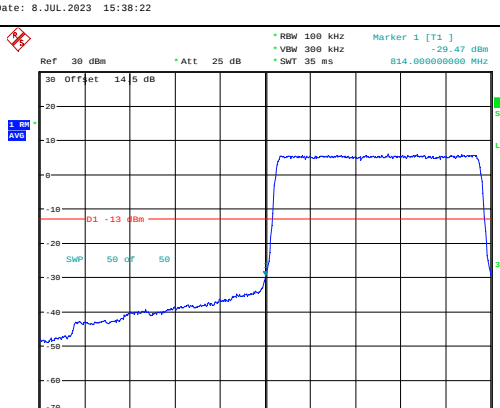
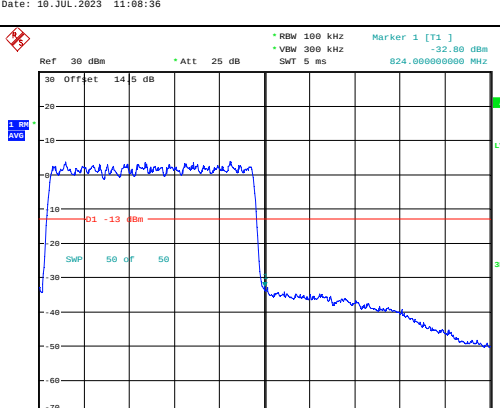
Out of band emission, Band Edge



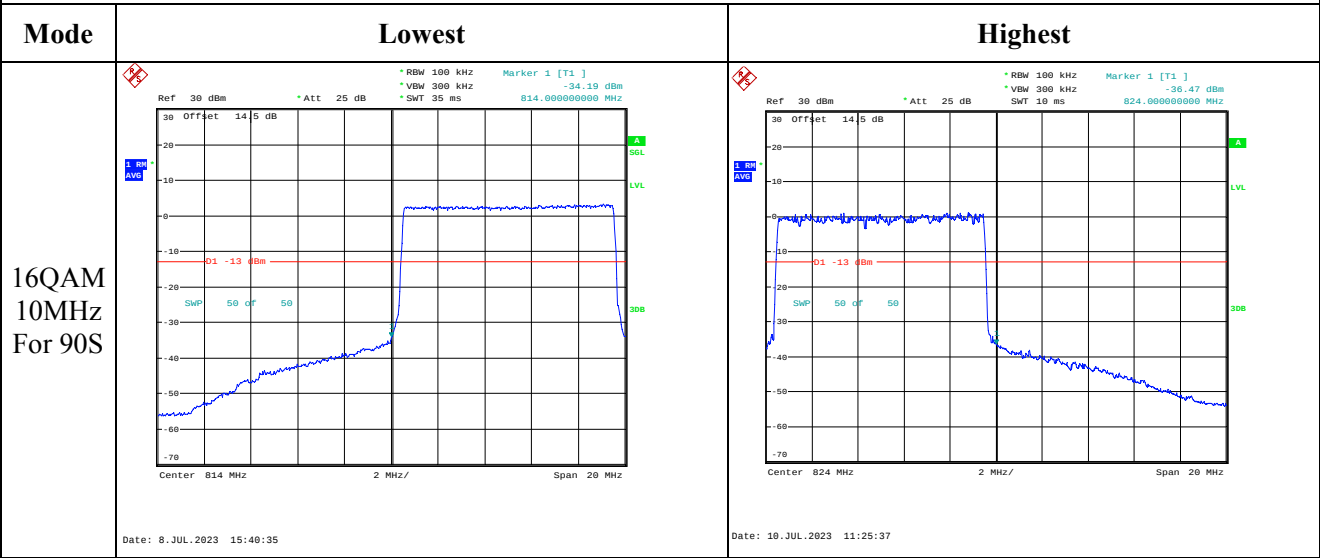
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz For 22H	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -35.45 dBm VBW 300 kHz SWT 10 ms 824.00000000 MHz Center 824 MHz 2 MHz/ Span 20 MHz Date: 10.JUL.2023 11:26:57	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -36.30 dBm VBW 300 kHz SWT 35 ms 849.00000000 MHz Center 849 MHz 2 MHz/ Span 20 MHz Date: 8.JUL.2023 15:40:59
QPSK 15MHz For 22H	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -30.10 dBm VBW 1 MHz SWT 2.5 ms 824.00000000 MHz Center 824 MHz 3 MHz/ Span 30 MHz Date: 10.JUL.2023 11:29:06	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -30.57 dBm VBW 1 MHz SWT 35 ms 849.00000000 MHz Center 849 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 15:42:06
QPSK 15MHz Across 90S and 22H	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -30.10 dBm VBW 1 MHz SWT 35 ms 814.00000000 MHz Center 814 MHz 3 MHz/ Span 30 MHz Date: 8.JUL.2023 15:41:47	

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz For 90S	 Ref: 30 dBm, Att: 25 dB, RBW: 30 kHz, VBW: 100 kHz, SWT: 35 ms, Marker 1 [T1]: -34.66 dBm, 814.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 814 MHz, Span: 3 MHz Date: 8.JUL.2023 15:37:14	 Ref: 30 dBm, Att: 25 dB, RBW: 30 kHz, VBW: 100 kHz, SWT: 35 ms, Marker 1 [T1]: -31.75 dBm, 824.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 824 MHz, Span: 3 MHz Date: 10.JUL.2023 11:03:26
16QAM 3MHz For 90S	 Ref: 30 dBm, Att: 25 dB, RBW: 30 kHz, VBW: 100 kHz, SWT: 35 ms, Marker 1 [T1]: -29.47 dBm, 814.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 814 MHz, Span: 6 MHz Date: 8.JUL.2023 15:38:22	 Ref: 30 dBm, Att: 25 dB, RBW: 30 kHz, VBW: 100 kHz, SWT: 35 ms, Marker 1 [T1]: -33.95 dBm, 824.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 824 MHz, Span: 6 MHz Date: 10.JUL.2023 11:08:36
16QAM 5MHz For 90S	 Ref: 30 dBm, Att: 25 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 5 ms, Marker 1 [T1]: -32.80 dBm, 814.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 814 MHz, Span: 10 MHz Date: 8.JUL.2023 15:39:27	 Ref: 30 dBm, Att: 25 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 5 ms, Marker 1 [T1]: -32.80 dBm, 824.000000000 MHz 30 Offset 14.5 dB, 01 -13 dBm, SWP 50 OF 50 Center: 824 MHz, Span: 10 MHz Date: 10.JUL.2023 11:11:25

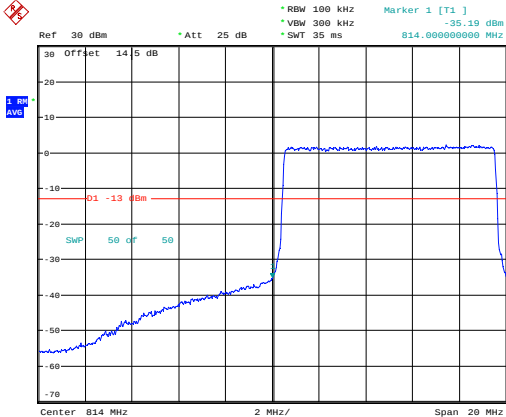
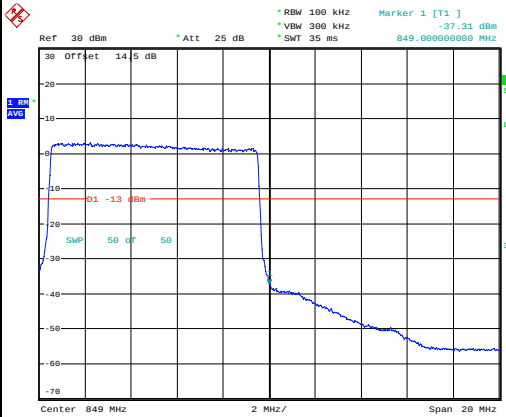
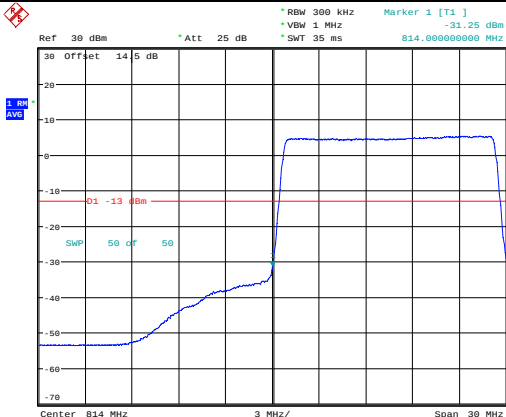
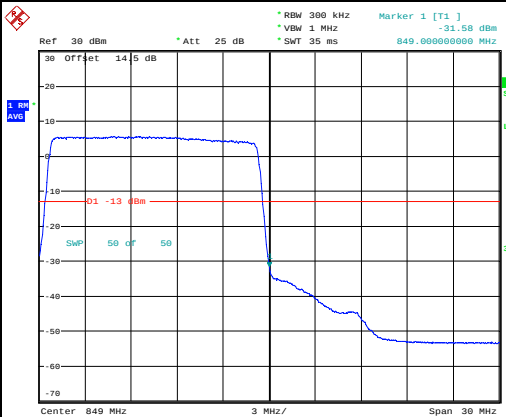
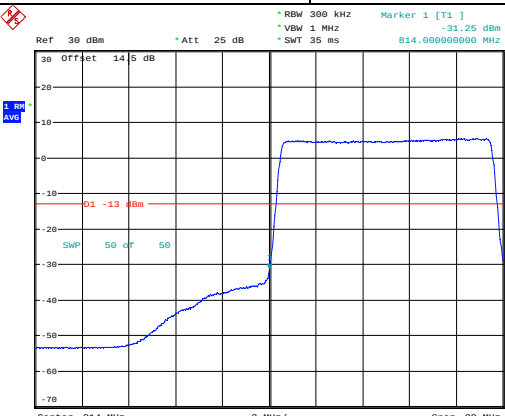
Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz For 22H	Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -33.08 dBm VBW 100 kHz 814.000000000 MHz SWT 35 ms Center 814 MHz 300 kHz/ Span 3 MHz Date: 8.JUL.2023 15:37:14	Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -27.84 dBm VBW 100 kHz 849.000000000 MHz SWT 35 ms Center 849 MHz 300 kHz/ Span 3 MHz Date: 8.JUL.2023 15:37:34
16QAM 3MHz For 22H	Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -35.34 dBm VBW 300 kHz 814.000000000 MHz SWT 35 ms Center 814 MHz 600 kHz/ Span 6 MHz Date: 8.JUL.2023 15:38:31	Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -32.88 dBm VBW 300 kHz 849.000000000 MHz SWT 35 ms Center 849 MHz 600 kHz/ Span 6 MHz Date: 8.JUL.2023 15:38:53
16QAM 5MHz For 22H	Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -39.61 dBm VBW 300 kHz 814.000000000 MHz SWT 35 ms Center 814 MHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 15:39:37	Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -29.94 dBm VBW 300 kHz 849.000000000 MHz SWT 35 ms Center 849 MHz 1 MHz/ Span 10 MHz Date: 8.JUL.2023 15:39:59

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz For 22H	 Date: 8.JUL.2023 15:40:46	 Date: 8.JUL.2023 15:41:12
16QAM 15MHz For 22H	 Date: 8.JUL.2023 15:41:56	 Date: 8.JUL.2023 15:42:15
16QAM 15MHz Across 90S and 22H	 Date: 8.JUL.2023 15:41:56	

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: (°C)	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		

20MHz 16QAM	RB50#0	17.03	18.96	17.26	19.45	33
	RB50#50	17.29	18.98	16.99		
	RB100#0	17.17	18.97	17.12		
	RB1#0	17.04	18.82	17.16		
	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) - Lc(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.
----------------	---

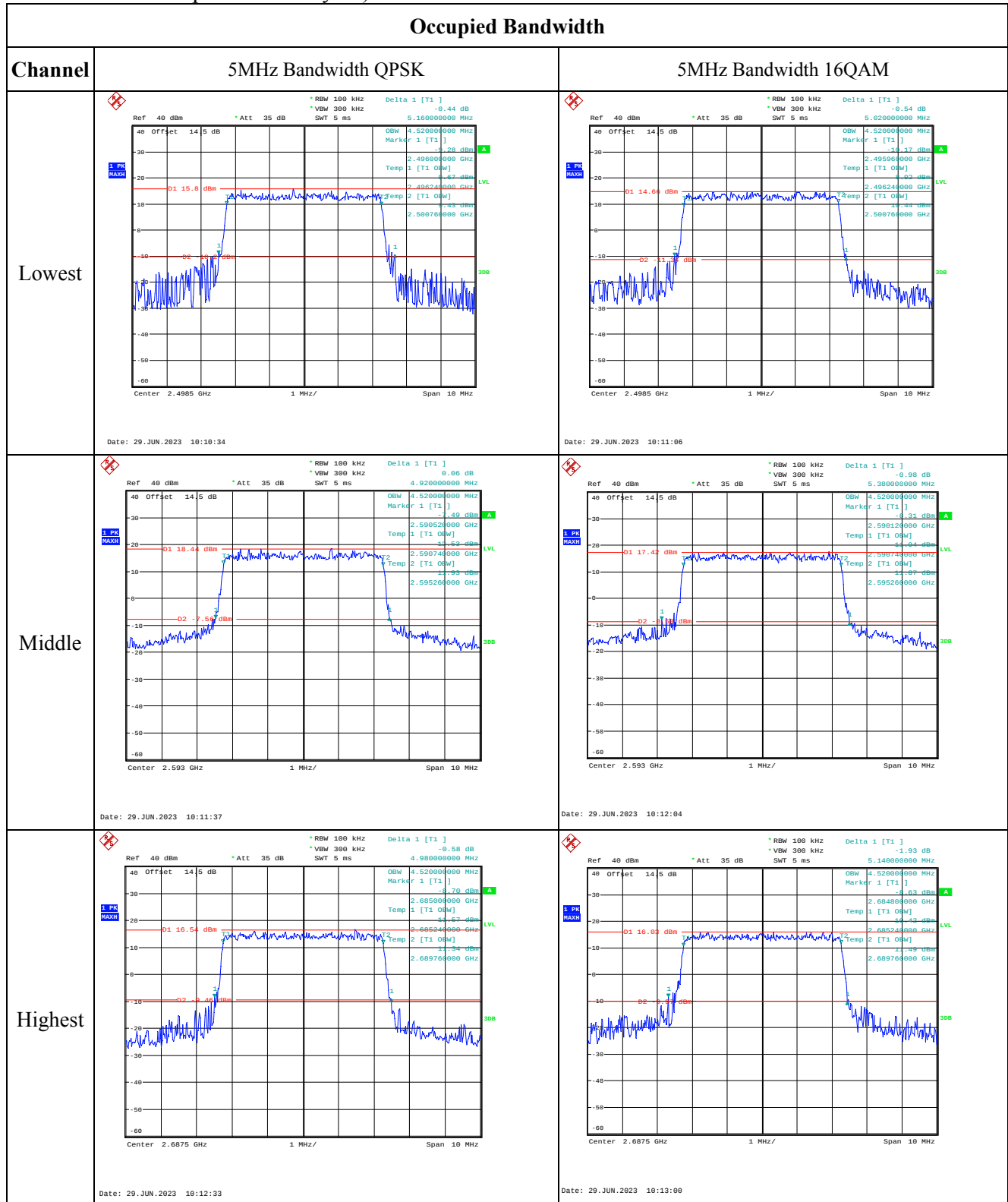
FCC §2.1051, § 27.53:Out of band emission, Band Edge

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

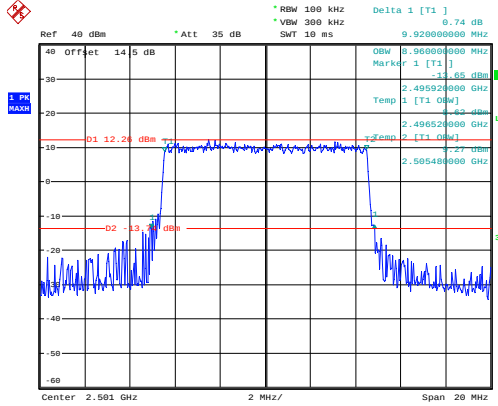
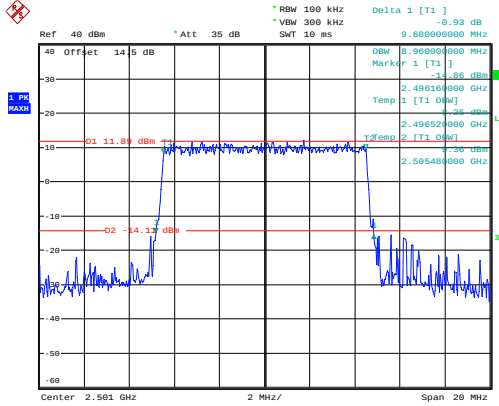
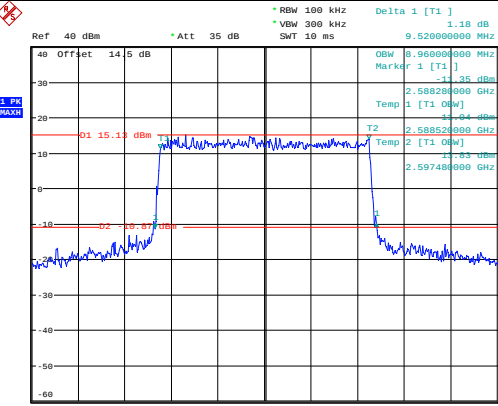
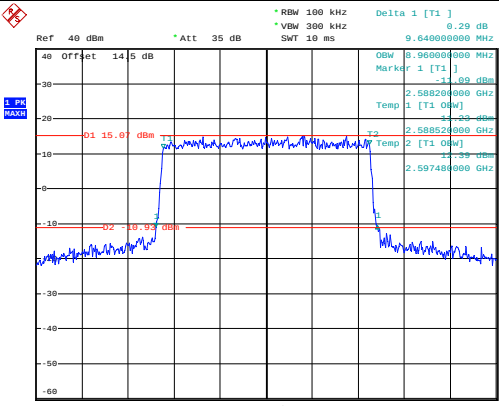
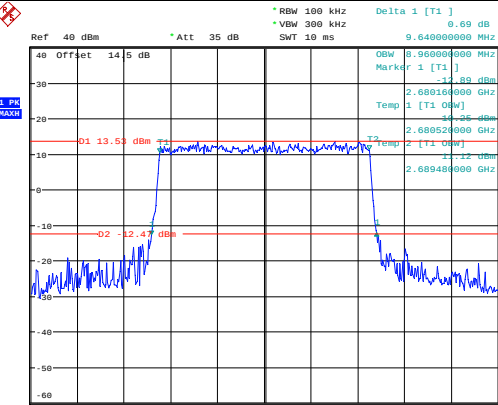
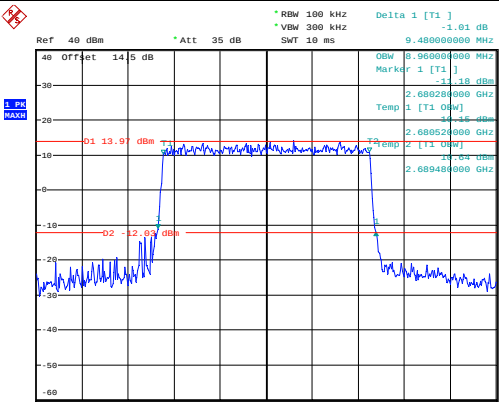
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	2497.029	2496.00	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 (°C)	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	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 0.74 dB VBW 300 kHz SWT 10 ms 9.520000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -13.24 dBm Temp 1 [T1 0dB] 2.495920000 GHz Temp 2 [T1 0dB] 2.496520000 GHz Temp 3 [T1 0dB] 2.505480000 GHz LVL -13.24 dBm 30B Center 2.581 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:13:53	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 0.93 dB VBW 300 kHz SWT 10 ms 9.680000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -14.13 dBm Temp 1 [T1 0dB] 2.496100000 GHz Temp 2 [T1 0dB] 2.496520000 GHz Temp 3 [T1 0dB] 2.505480000 GHz LVL -14.13 dBm 30B Center 2.581 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:14:14
Middle	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 1.18 dB VBW 300 kHz SWT 10 ms 9.520000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -15.13 dBm Temp 1 [T1 0dB] 2.588280000 GHz Temp 2 [T1 0dB] 2.588520000 GHz Temp 3 [T1 0dB] 2.597480000 GHz LVL -15.13 dBm 30B Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:14:36	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 1.29 dB VBW 300 kHz SWT 10 ms 9.640000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -15.07 dBm Temp 1 [T1 0dB] 2.588280000 GHz Temp 2 [T1 0dB] 2.588520000 GHz Temp 3 [T1 0dB] 2.597480000 GHz LVL -15.07 dBm 30B Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:15:03
Highest	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 0.69 dB VBW 300 kHz SWT 10 ms 9.640000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -12.47 dBm Temp 1 [T1 0dB] 2.688520000 GHz Temp 2 [T1 0dB] 2.688520000 GHz Temp 3 [T1 0dB] 2.689480000 GHz LVL -12.47 dBm 30B Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:15:32	 Ref 40 dBm Att 35 dB RBW 100 kHz Delta 1 [T1] 1.01 dB VBW 300 kHz SWT 10 ms 9.480000000 MHz OBW 8.960000000 MHz Marker 1 [T1] -12.03 dBm Temp 1 [T1 0dB] 2.688280000 GHz Temp 2 [T1 0dB] 2.688520000 GHz Temp 3 [T1 0dB] 2.689480000 GHz LVL -12.03 dBm 30B Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29 JUN.2023 10:15:56

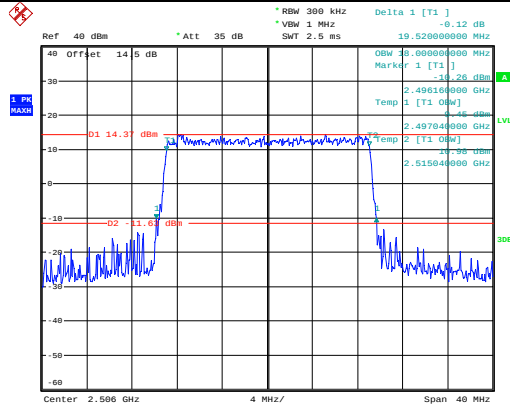
Occupied Bandwidth

Channel

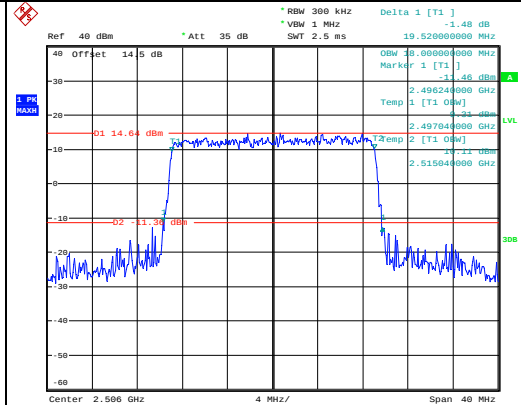
20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

Lowest

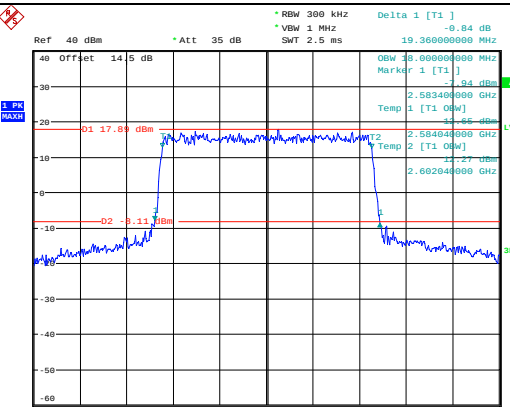


Date: 29.JUN.2023 10:35:44

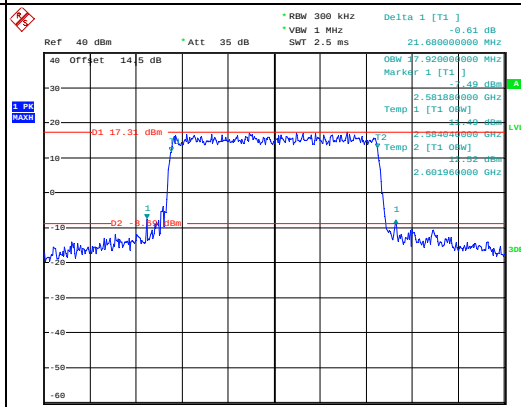


Date: 29.JUN.2023 10:36:18

Middle

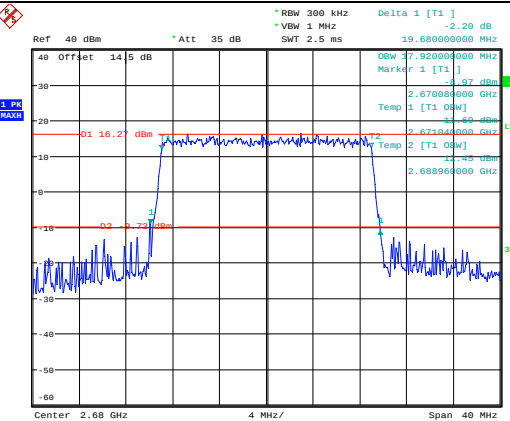


Date: 29.JUN.2023 10:36:48

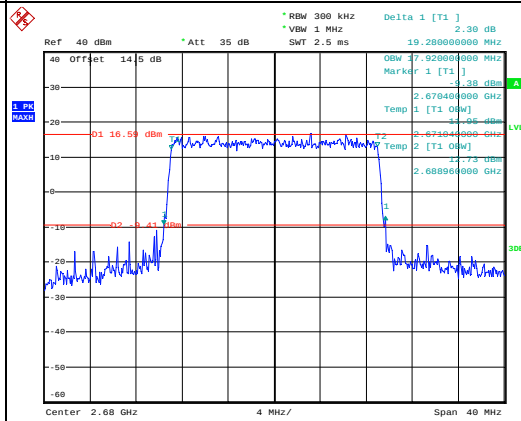


Date: 29.JUN.2023 10:37:18

Highest



Date: 29.JUN.2023 10:37:54



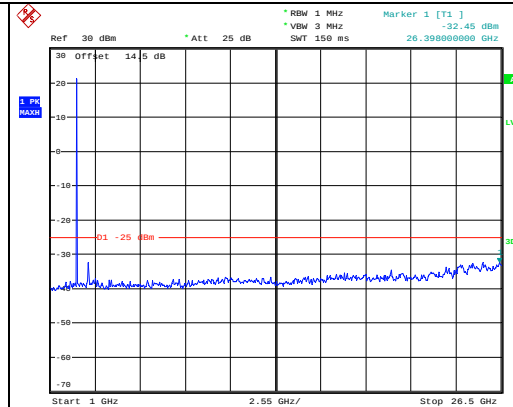
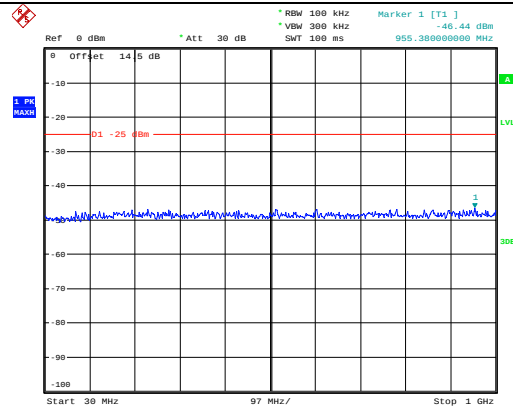
Date: 29.JUN.2023 10:38:21

Spurious Emissions at Antenna Terminal

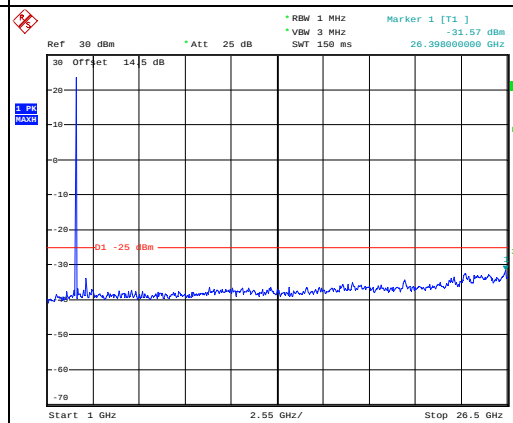
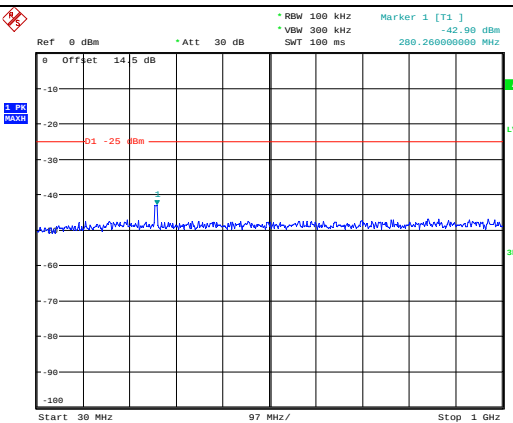
Channel

5MHz Bandwidth QPSK

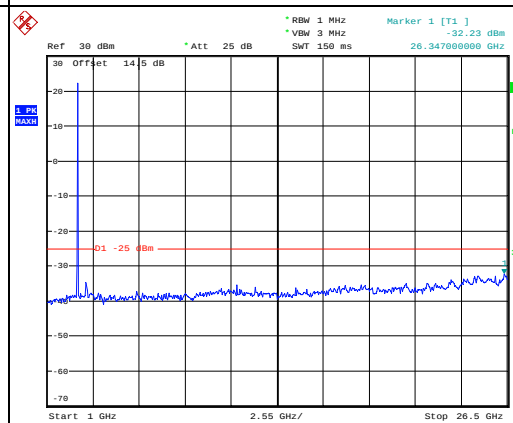
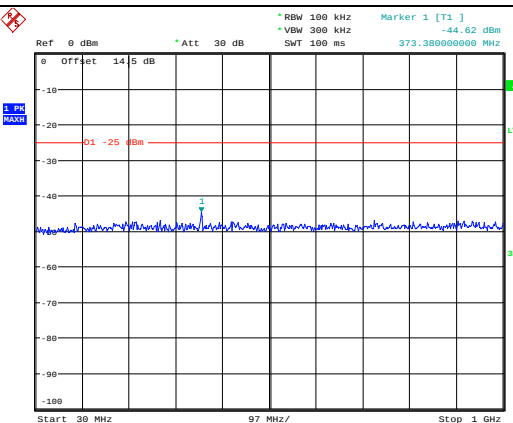
Lowest



Middle



Highest

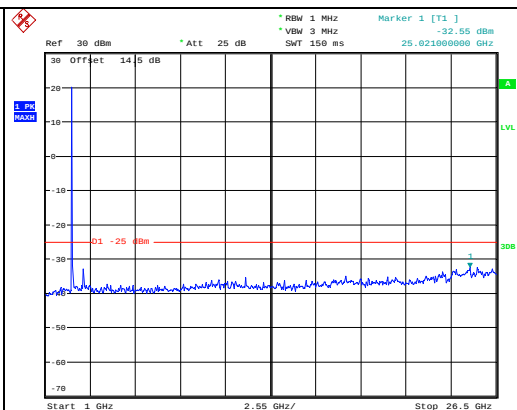
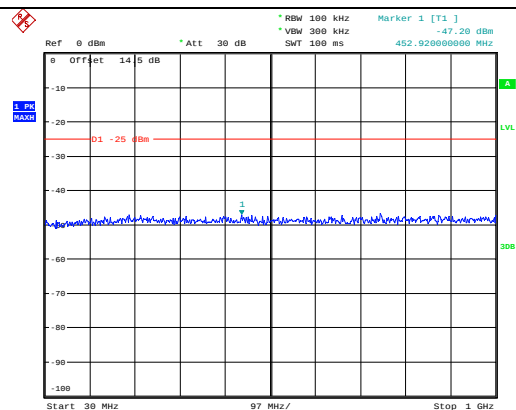


Spurious Emissions at Antenna Terminal

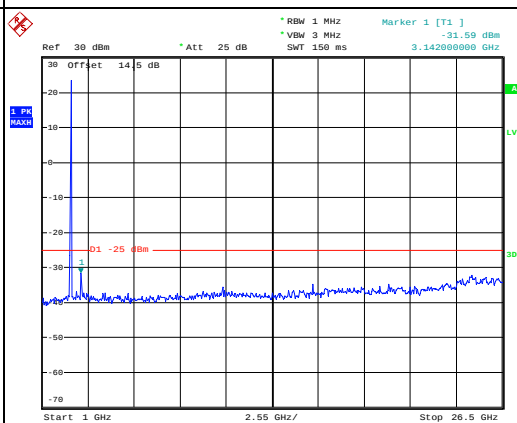
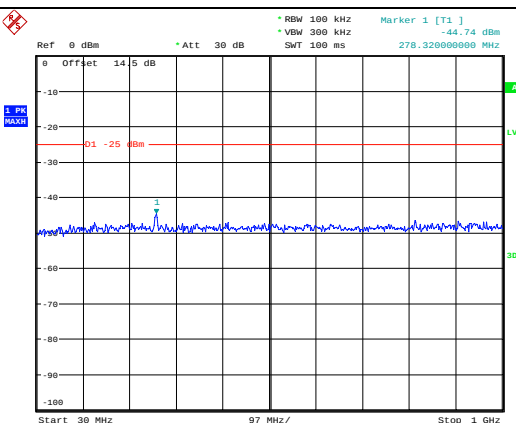
Channel

10MHz Bandwidth QPSK

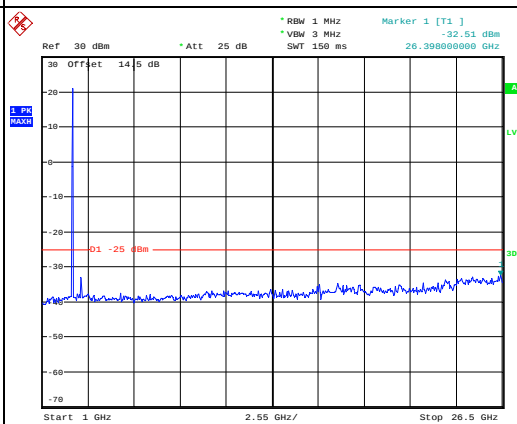
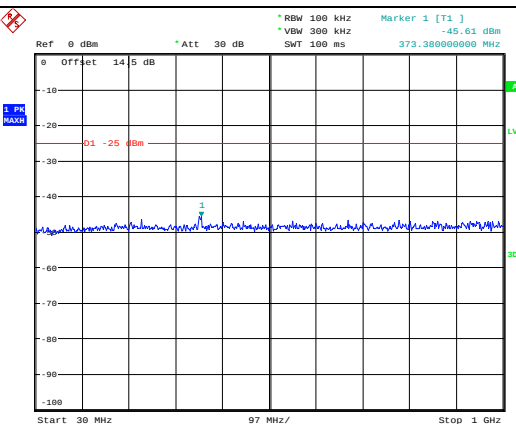
Lowest



Middle



Highest

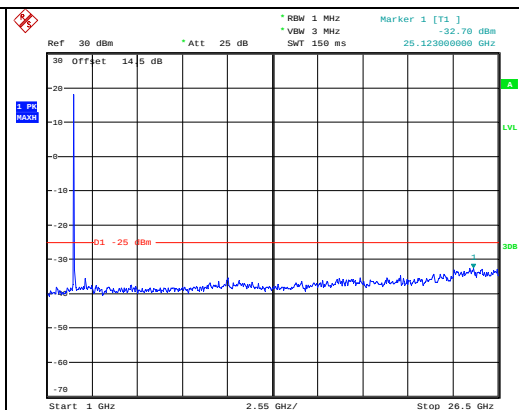
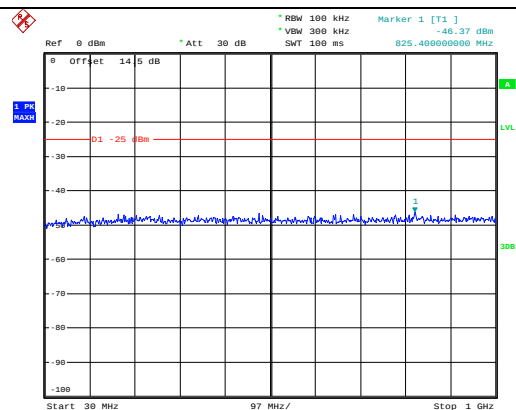


Spurious Emissions at Antenna Terminal

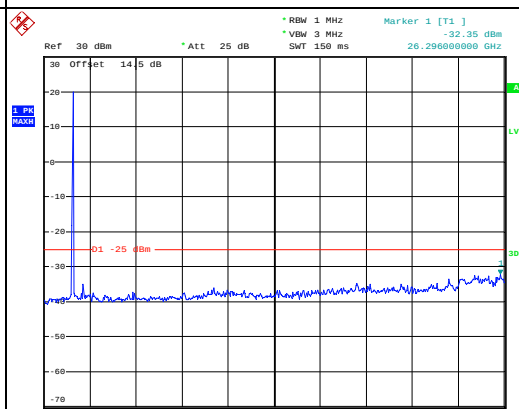
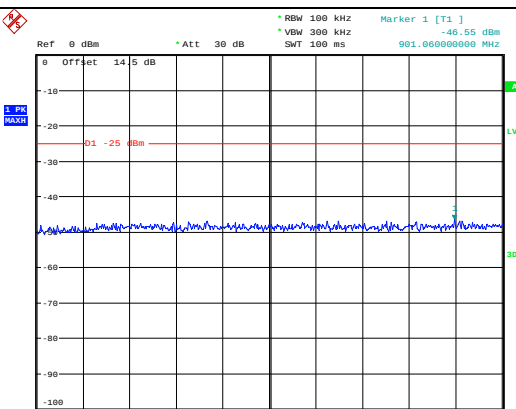
Channel

15MHz Bandwidth QPSK

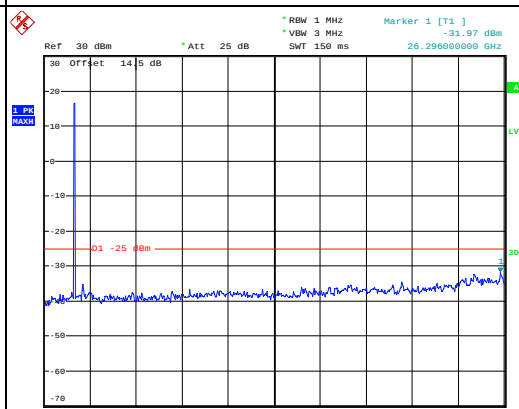
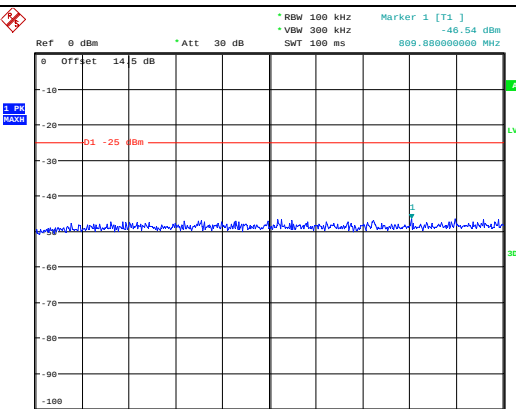
Lowest



Middle



Highest

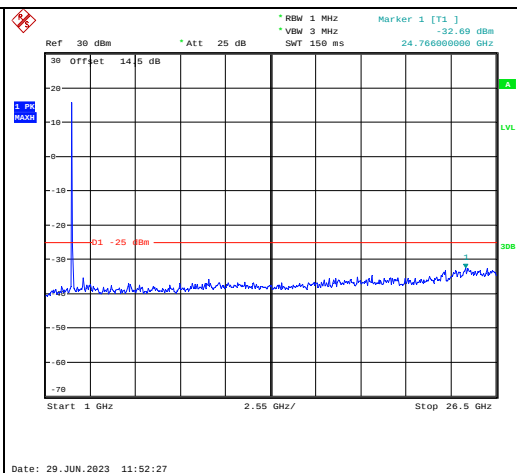
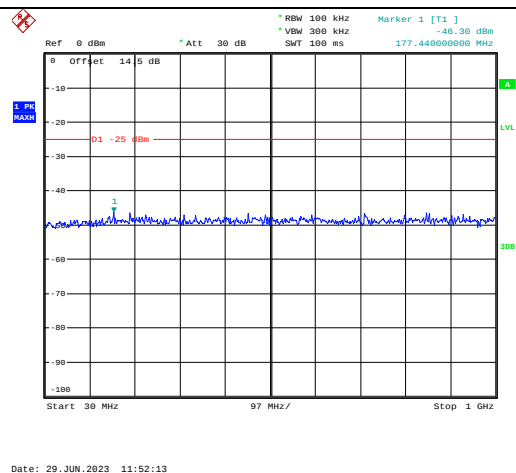


Spurious Emissions at Antenna Terminal

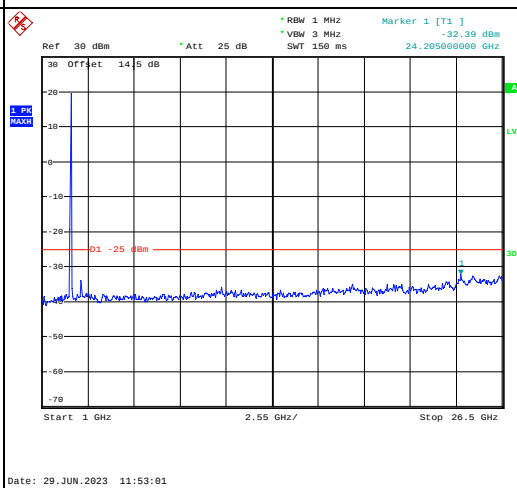
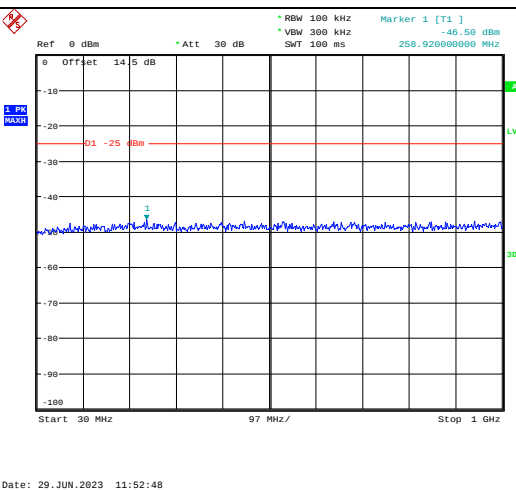
Channel

20MHz Bandwidth QPSK

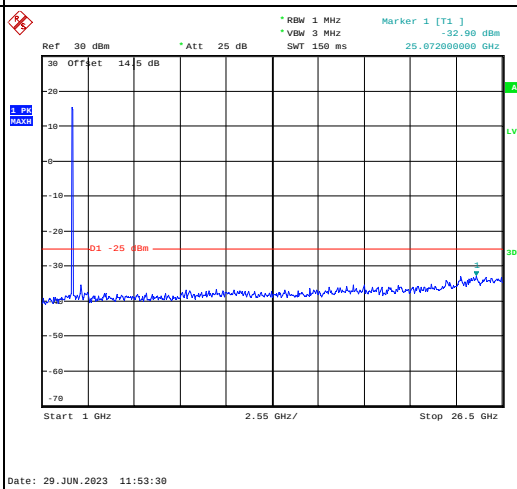
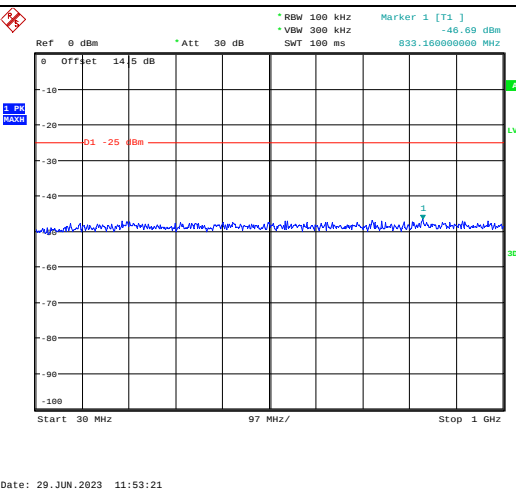
Lowest



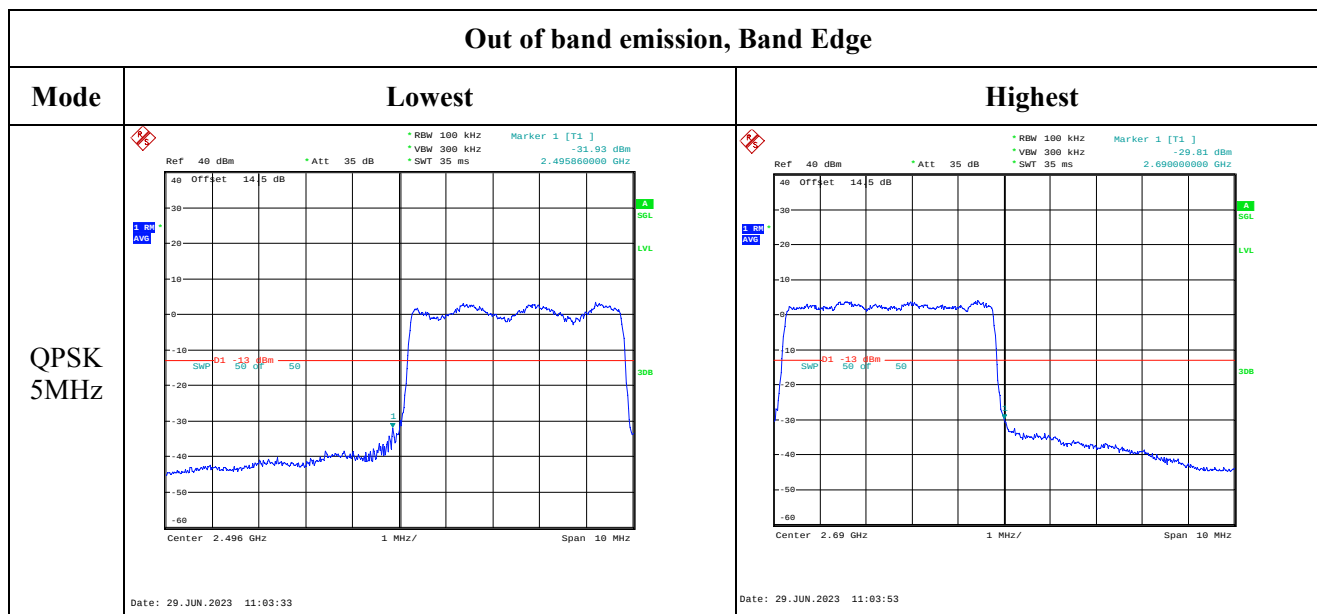
Middle



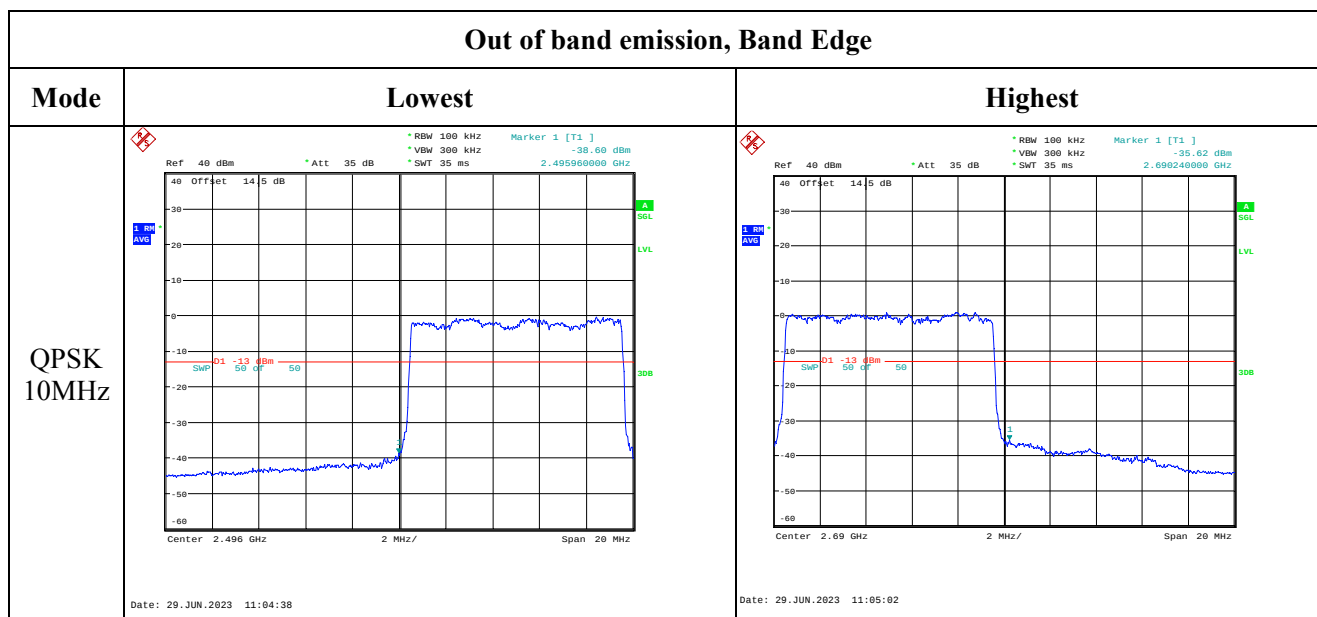
Highest



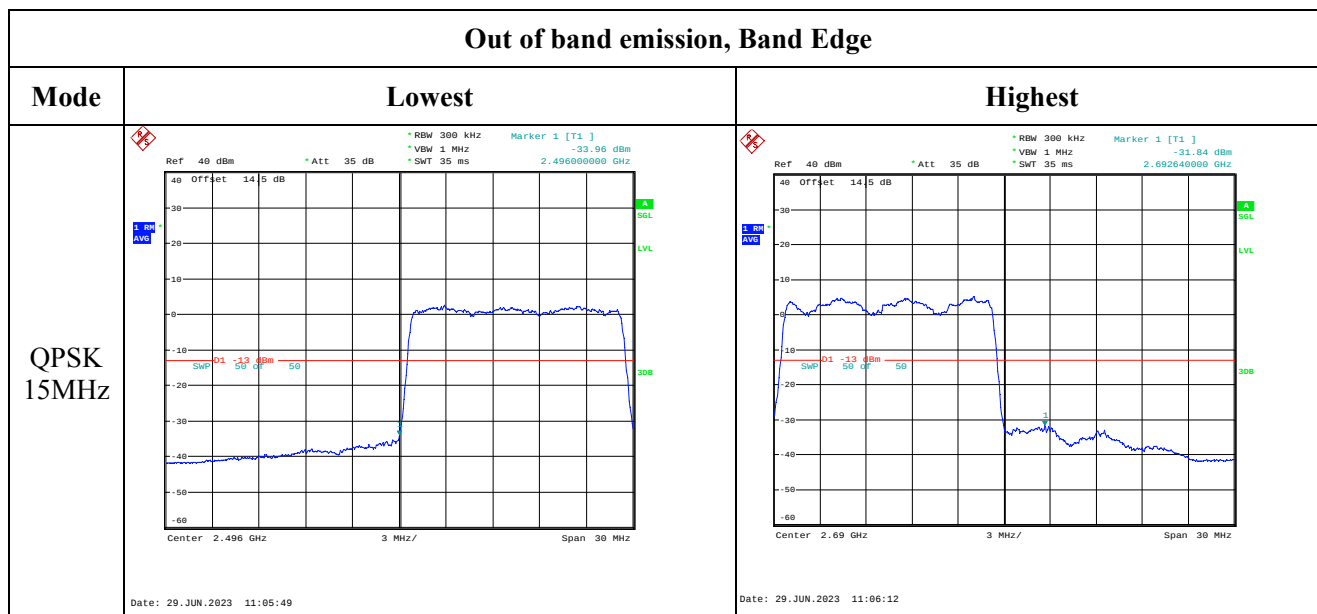
Out of band emission, Band Edge



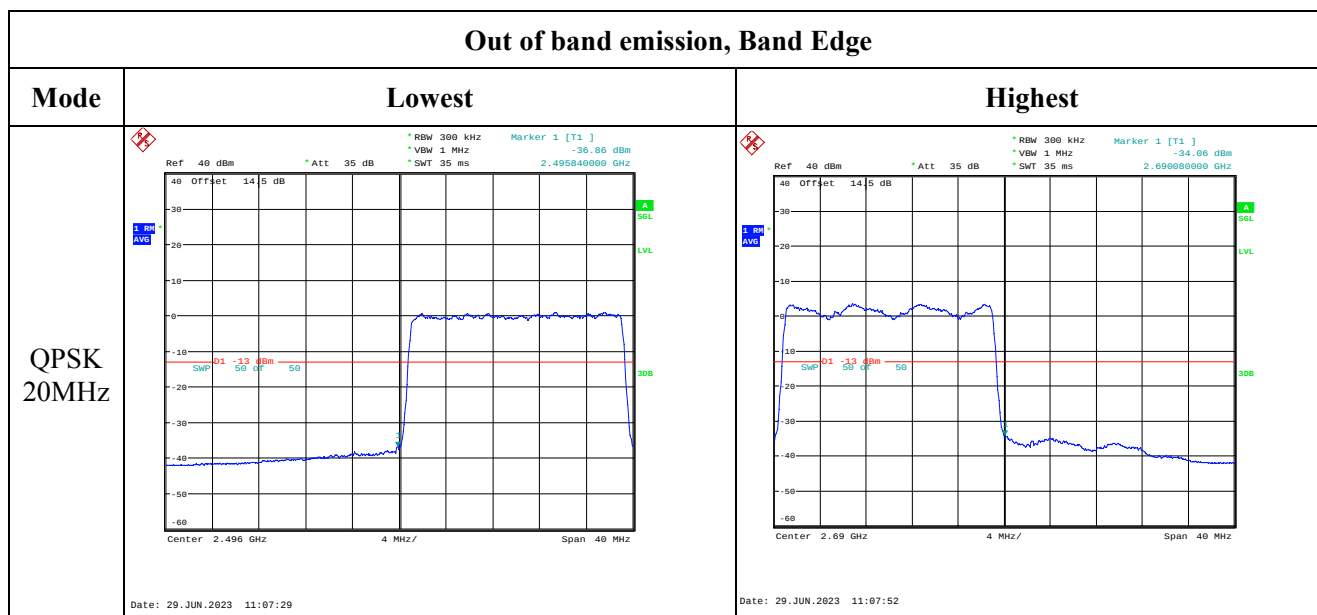
Out of band emission, Band Edge



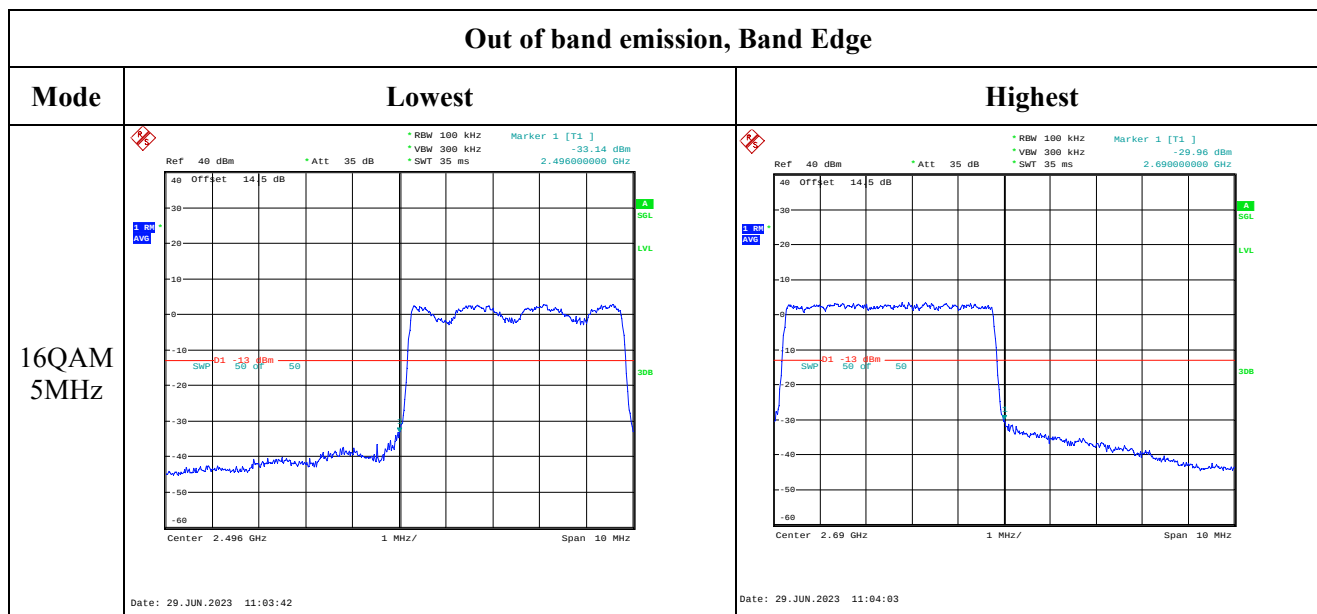
Out of band emission, Band Edge



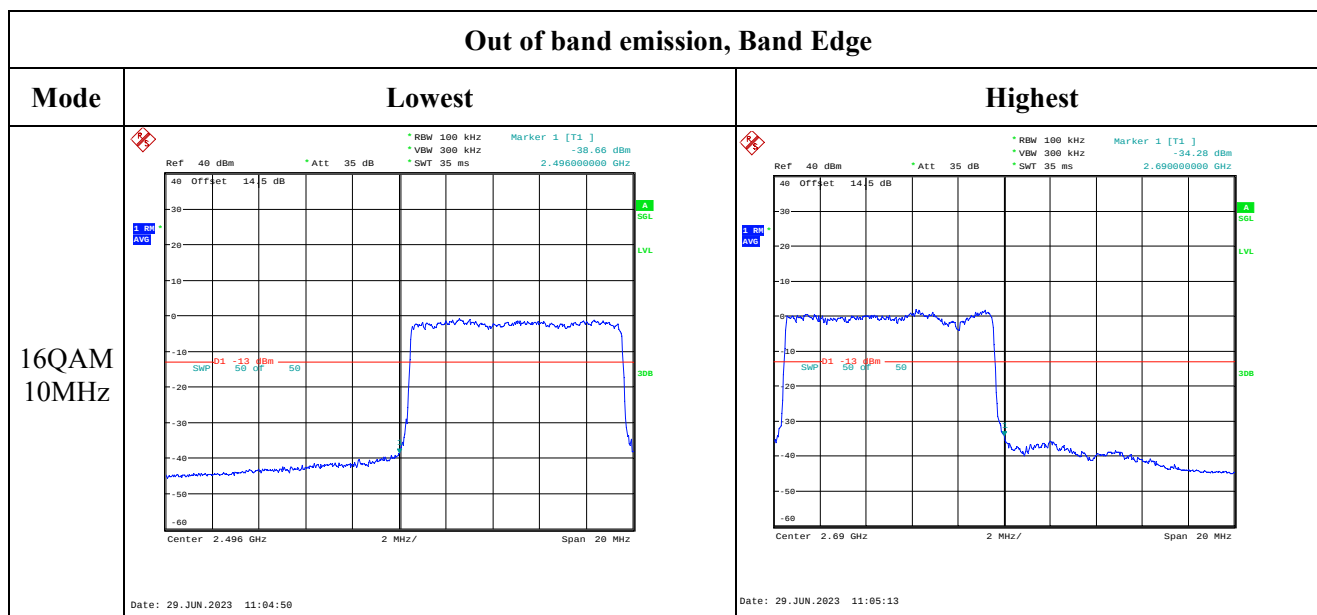
Out of band emission, Band Edge



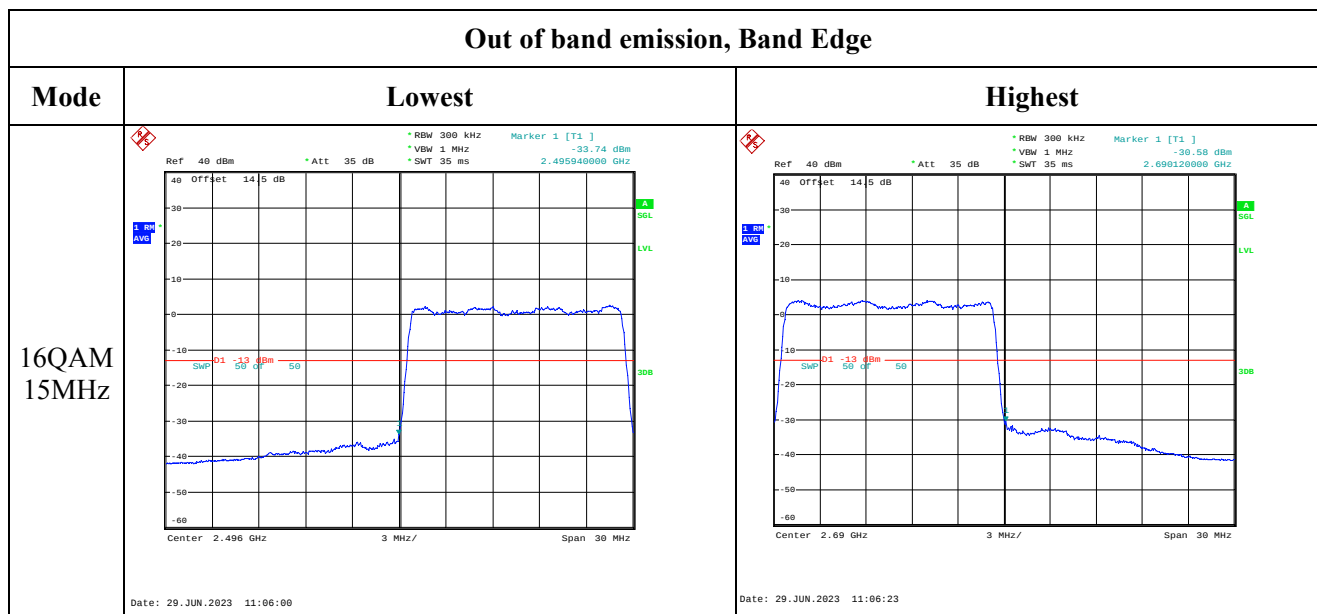
Out of band emission, Band Edge



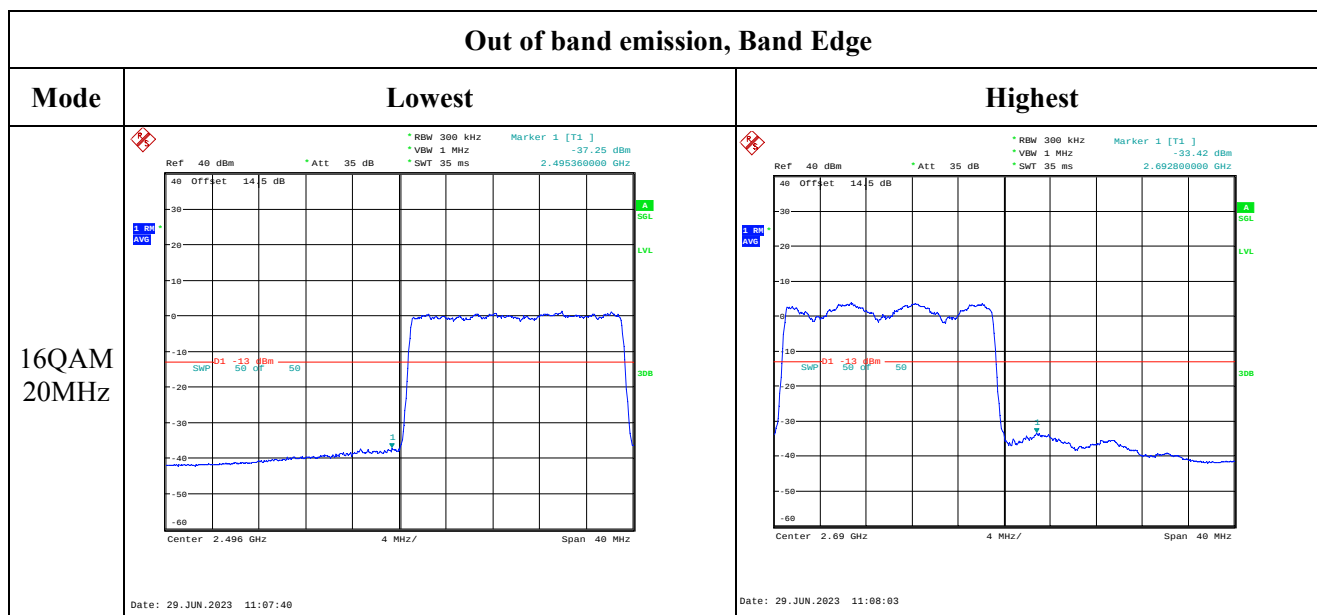
Out of band emission, Band Edge



Out of band emission, Band Edge



Out of band emission, Band Edge



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: (°C)	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) - Lc(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.

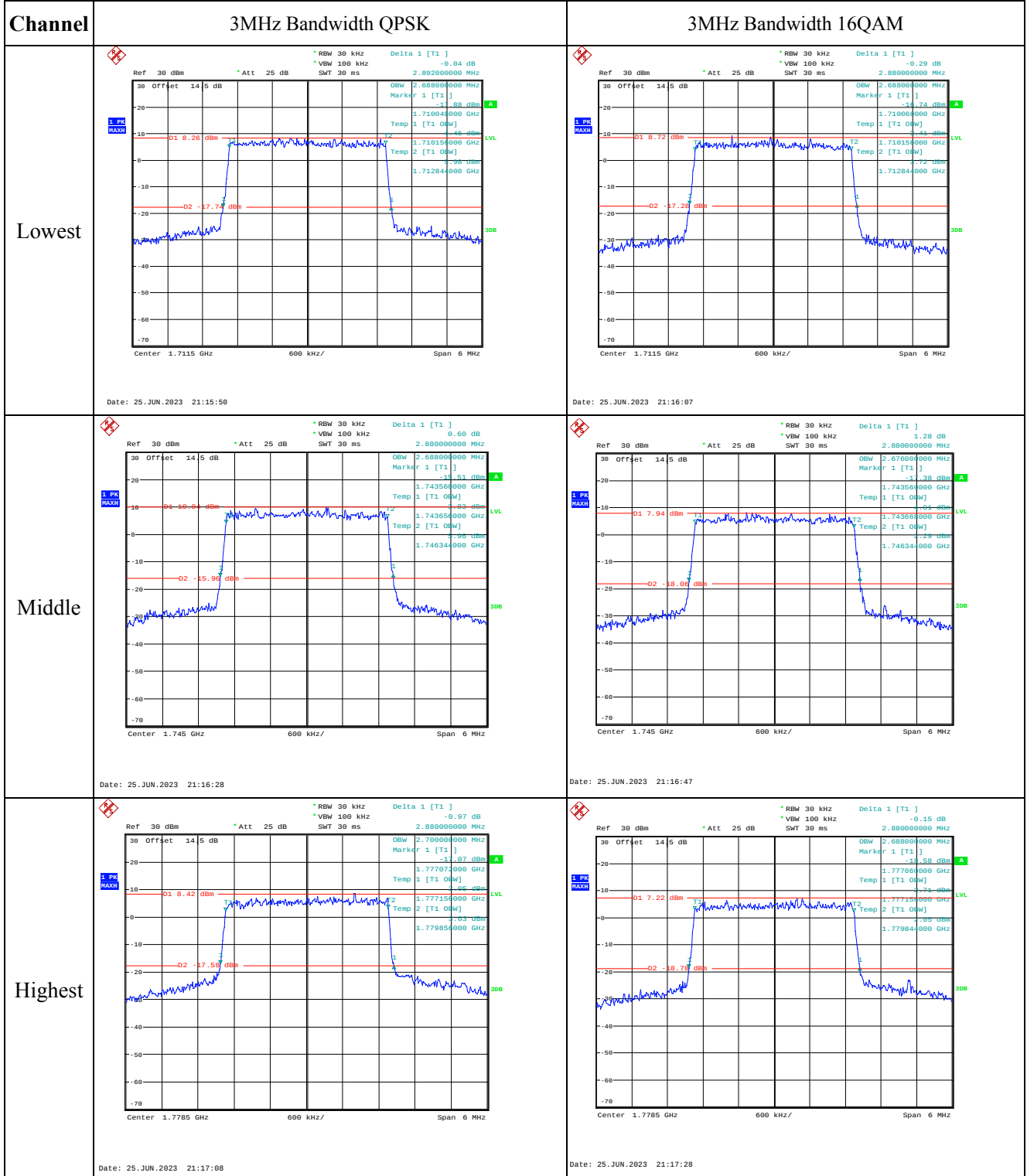
FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.8	1711.009	1710.00	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 (°C)	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

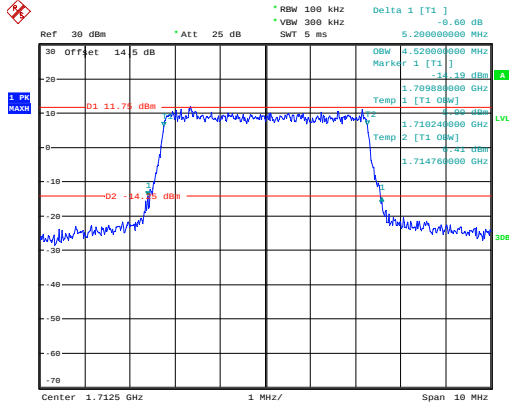
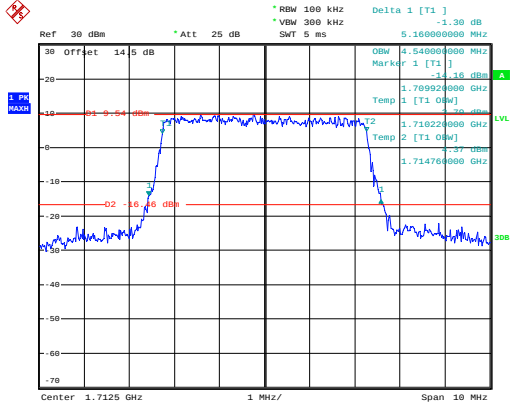
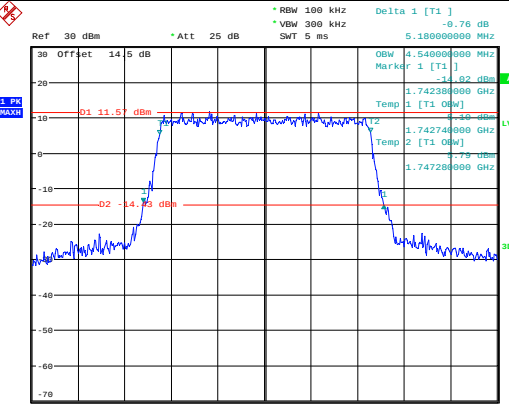
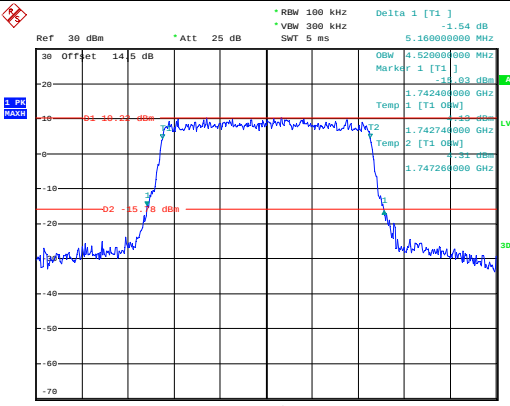
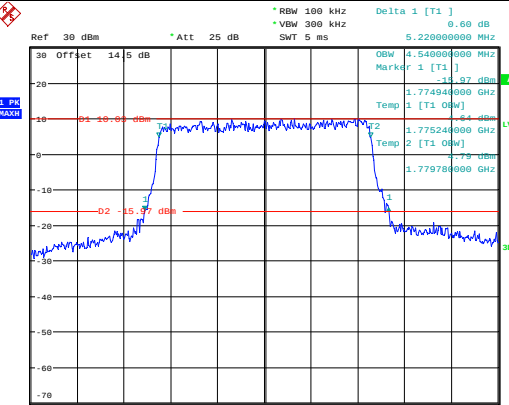
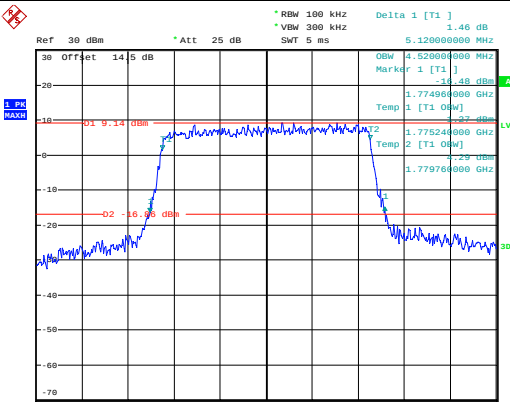
Occupied Bandwidth

Page 222 of 269

Occupied Bandwidth



Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.520000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.7125 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:18:38	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.540000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.7125 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:18:58
Middle	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.540000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.745 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:19:23	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.520000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.745 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:19:46
Highest	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.540000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.7775 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:20:10	 Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 5 ms Delta 1 [T1] OBW 4.520000000 MHz Marker 1 [T1] Temp 1 [T1 0dB] Temp 2 [T1 0dB] LVL Center 1.7775 GHz 1 MHz/ Span 10 MHz Date: 25 JUN.2023 21:20:29

Page 225 of 269

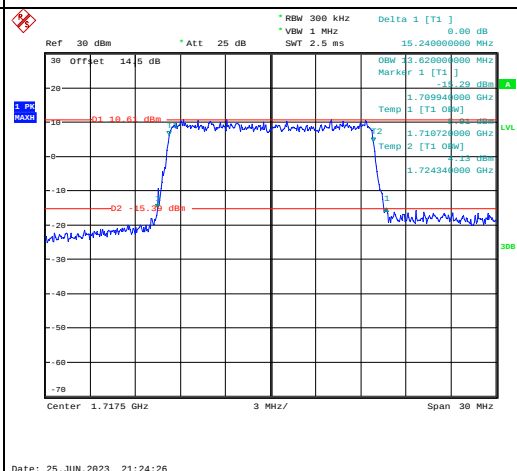
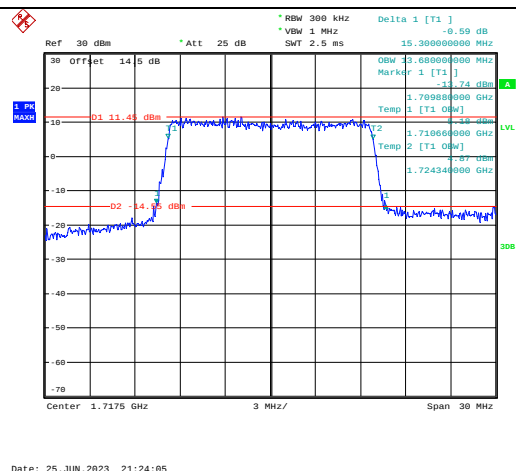
Occupied Bandwidth

Channel

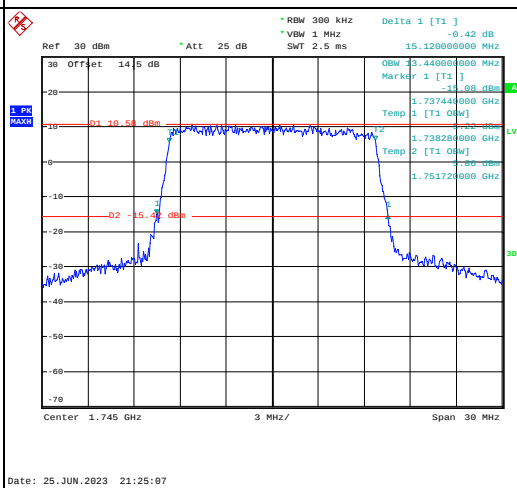
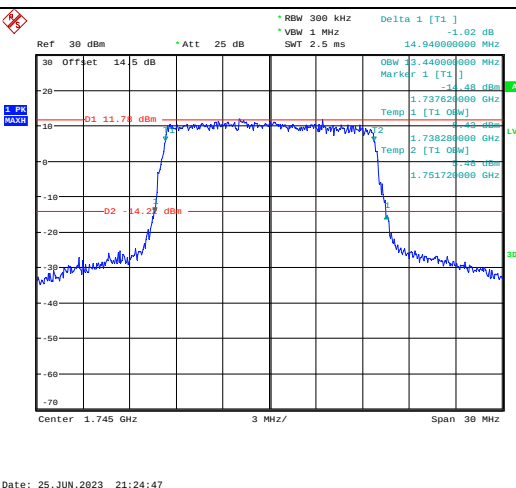
15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

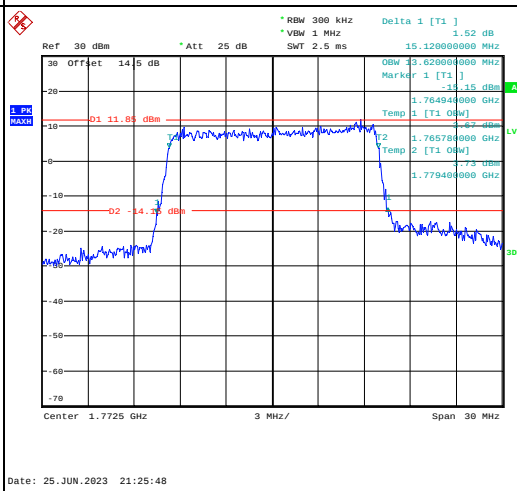
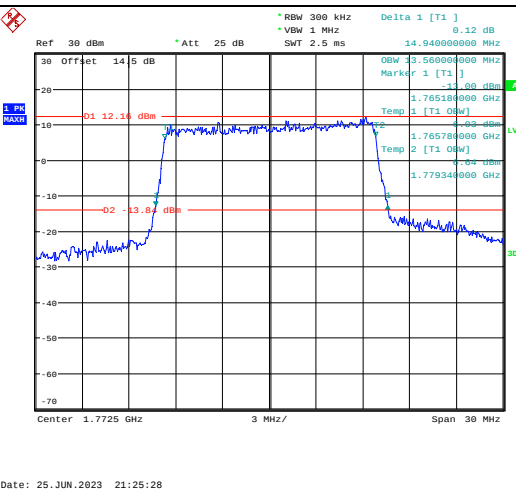
Lowest



Middle



Highest



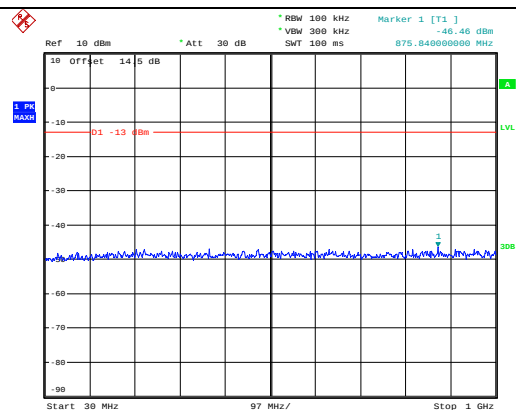
Page 227 of 269

Spurious Emissions at Antenna Terminal

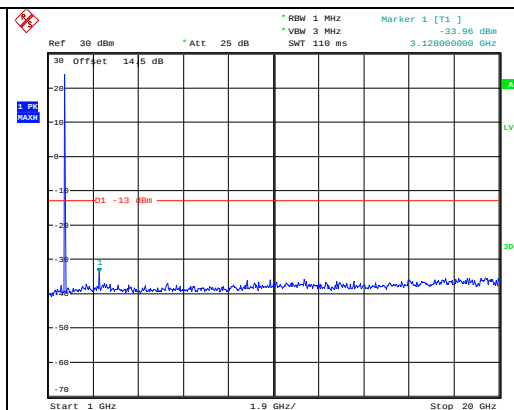
Channel

1.4MHz Bandwidth QPSK

Lowest

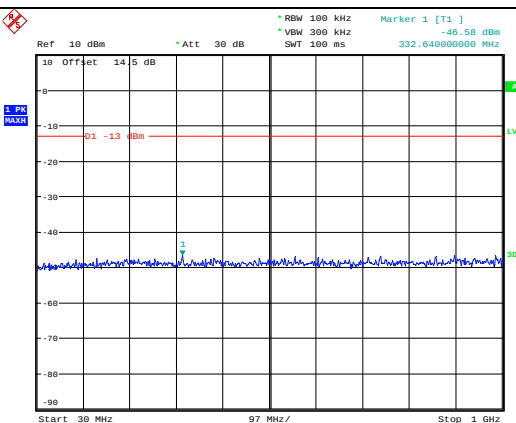


Date: 24.JUN.2023 10:26:15

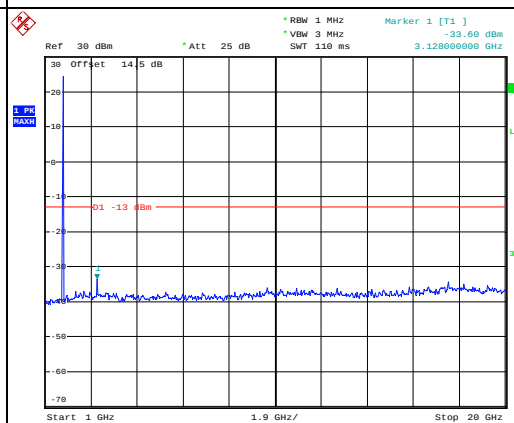


Date: 24.JUN.2023 10:26:26

Middle

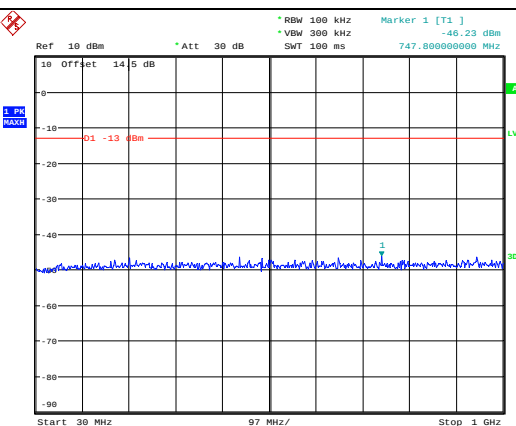


Date: 24.JUN.2023 10:26:43

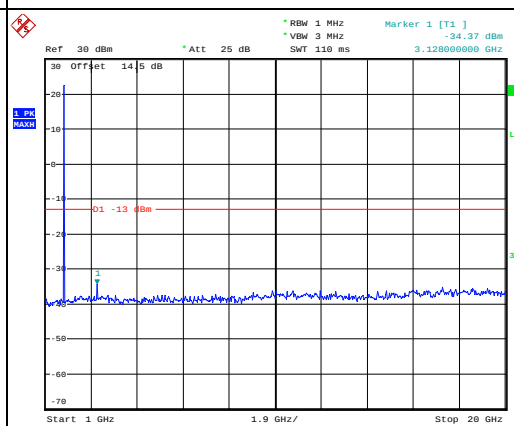


Date: 24.JUN.2023 10:26:54

Highest



Date: 24.JUN.2023 10:27:11



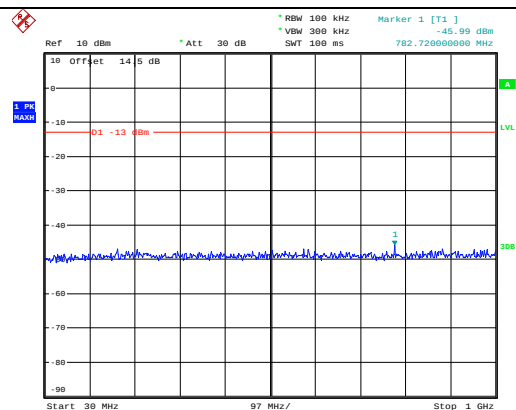
Date: 24.JUN.2023 10:27:22

Spurious Emissions at Antenna Terminal

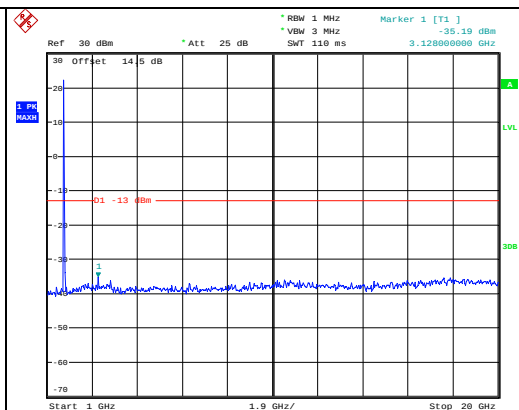
Channel

3MHz Bandwidth QPSK

Lowest

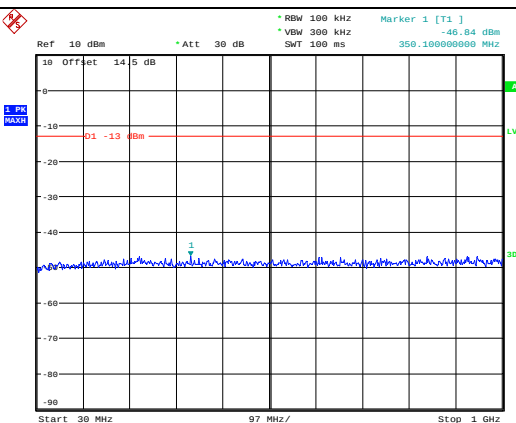


Date: 24.JUN.2023 10:28:01

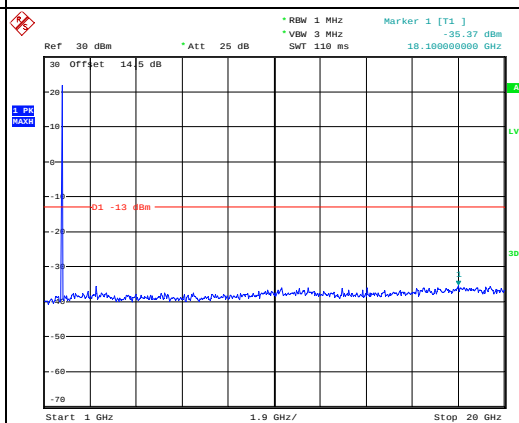


Date: 24.JUN.2023 10:28:13

Middle

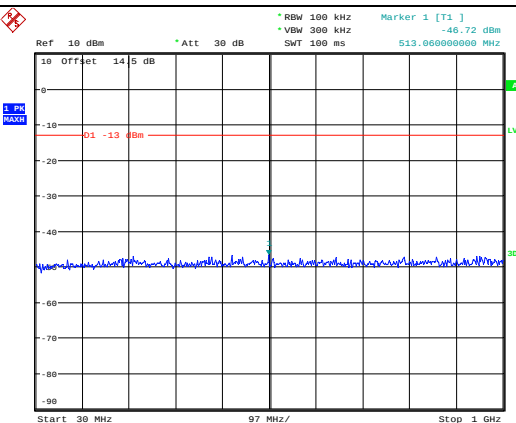


Date: 24.JUN.2023 10:28:30

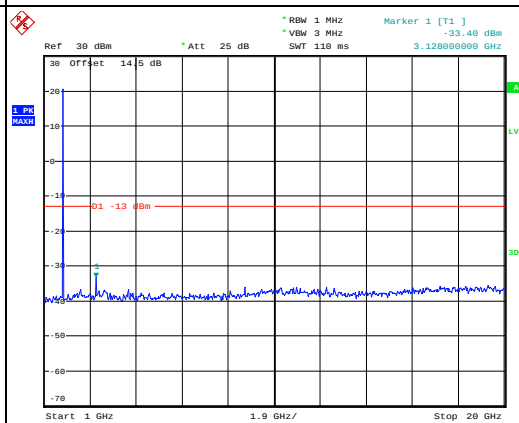


Date: 24.JUN.2023 10:28:41

Highest



Date: 24.JUN.2023 10:28:55



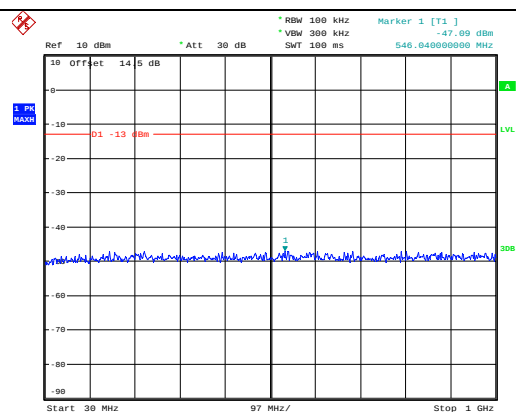
Date: 24.JUN.2023 10:29:06

Spurious Emissions at Antenna Terminal

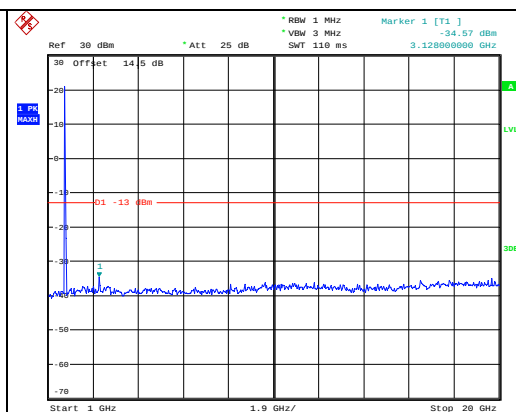
Channel

5MHz Bandwidth QPSK

Lowest

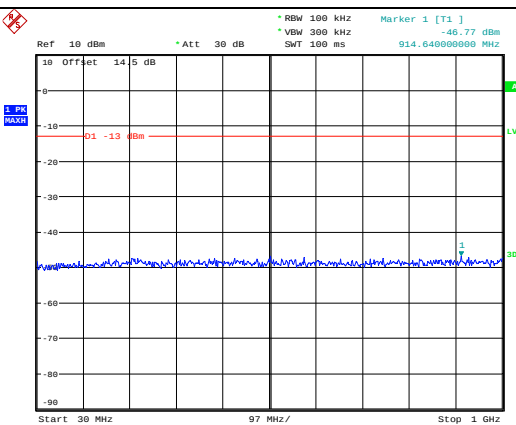


Date: 24.JUN.2023 10:29:45

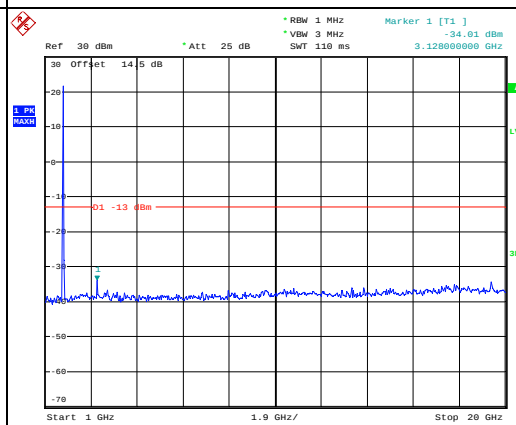


Date: 24.JUN.2023 10:29:56

Middle

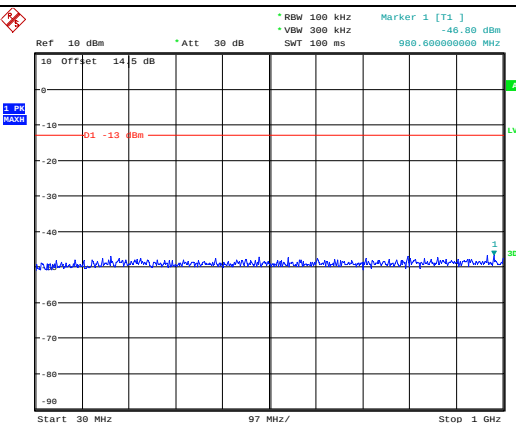


Date: 24.JUN.2023 10:30:13

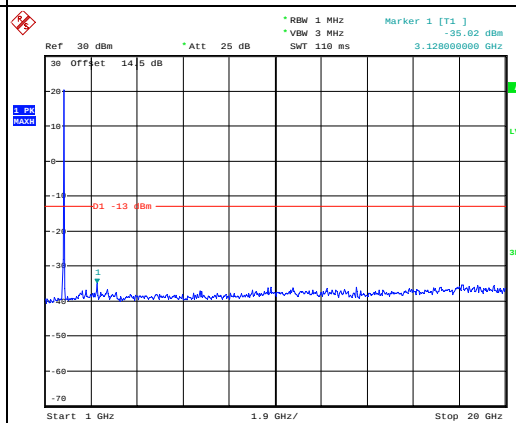


Date: 24.JUN.2023 10:30:24

Highest

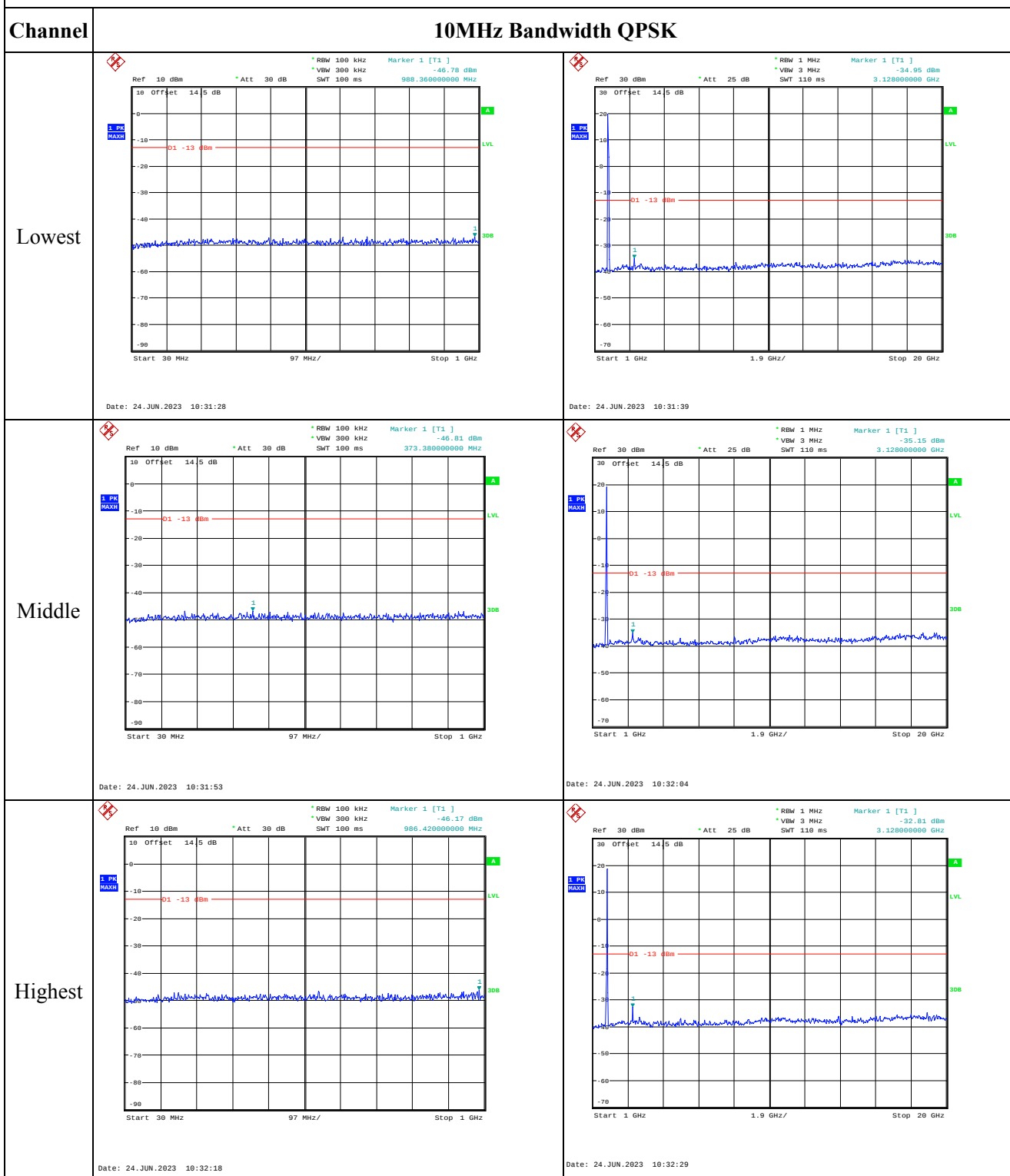


Date: 24.JUN.2023 10:30:38



Date: 24.JUN.2023 10:30:49

Spurious Emissions at Antenna Terminal

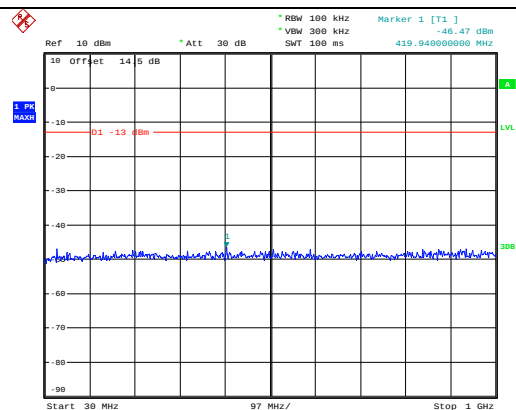


Spurious Emissions at Antenna Terminal

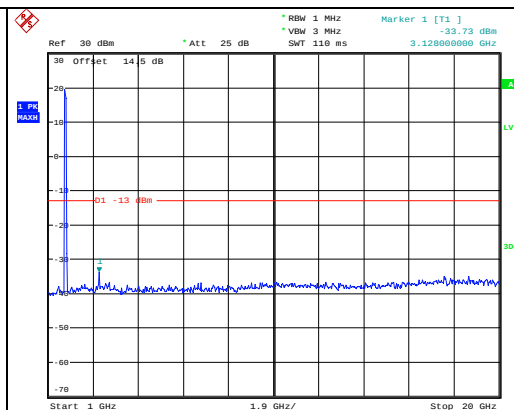
Channel

15MHz Bandwidth QPSK

Lowest

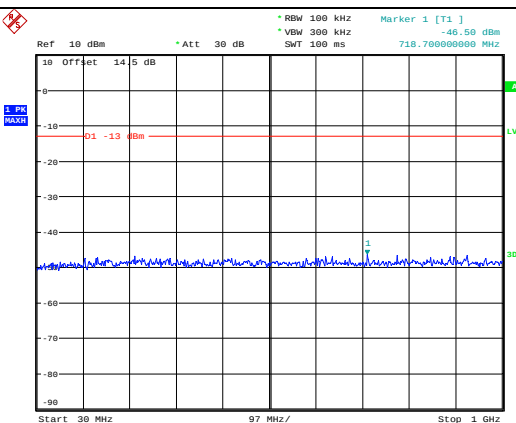


Date: 24.JUN.2023 10:33:17

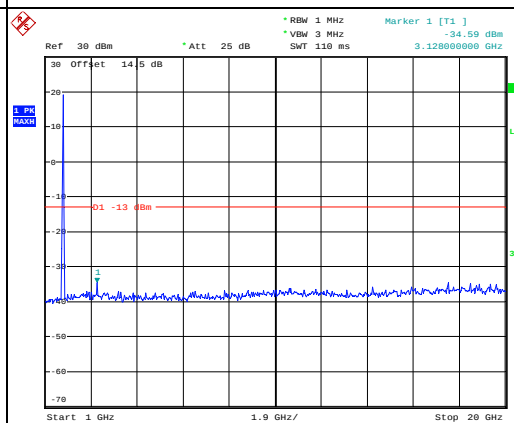


Date: 24.JUN.2023 10:33:28

Middle

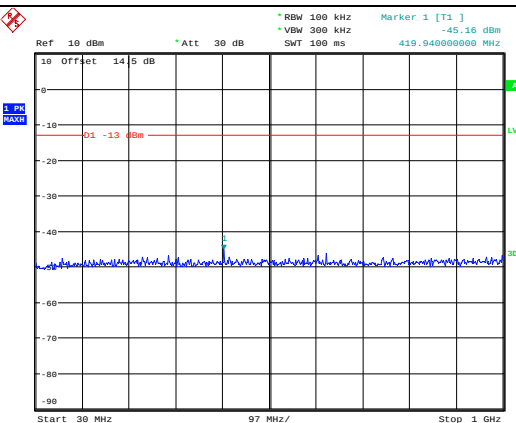


Date: 24.JUN.2023 10:33:45

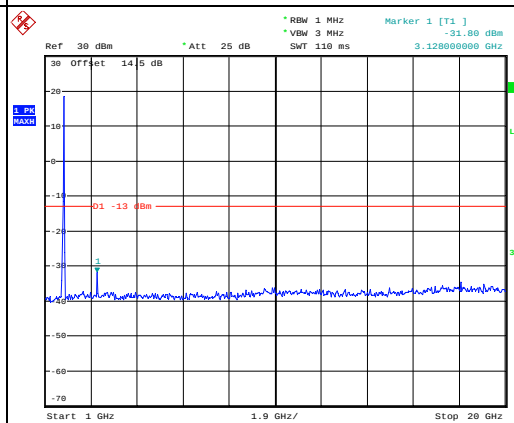


Date: 24.JUN.2023 10:33:56

Highest



Date: 24.JUN.2023 10:34:13



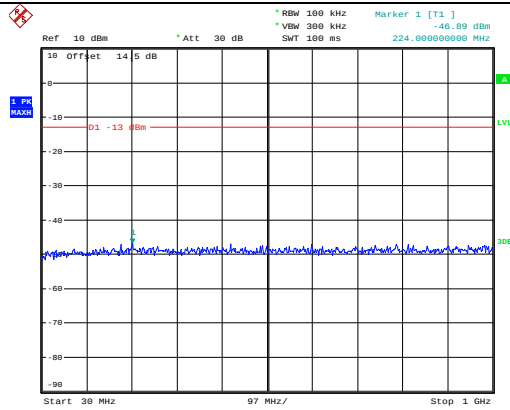
Date: 24.JUN.2023 10:34:25

Spurious Emissions at Antenna Terminal

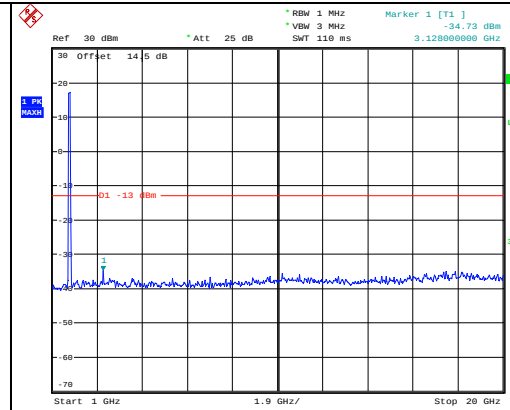
Channel

20MHz Bandwidth QPSK

Lowest

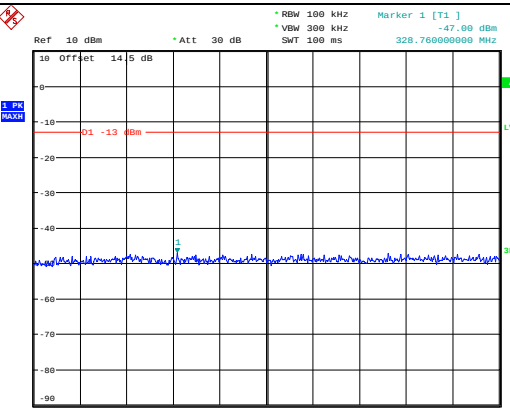


Date: 24.JUN.2023 10:35:04

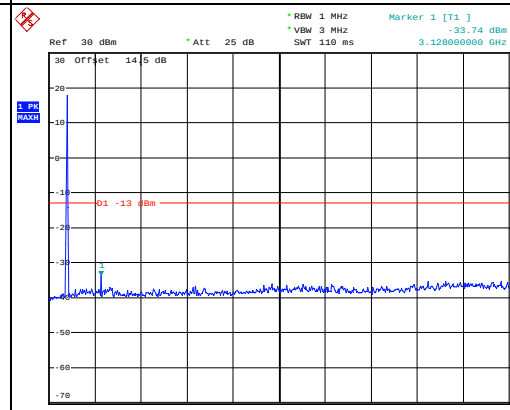


Date: 24.JUN.2023 10:35:15

Middle

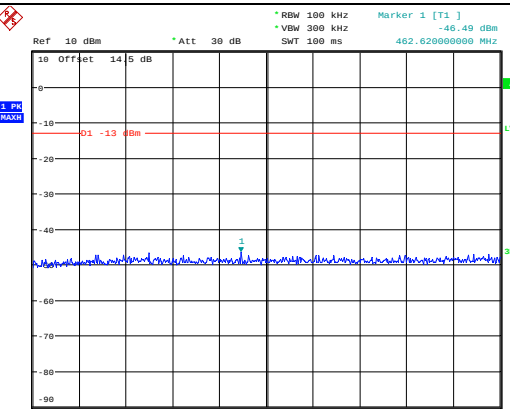


Date: 24.JUN.2023 10:35:29

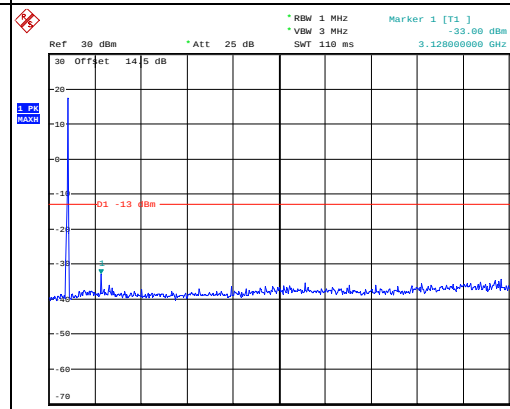


Date: 24.JUN.2023 10:35:40

Highest

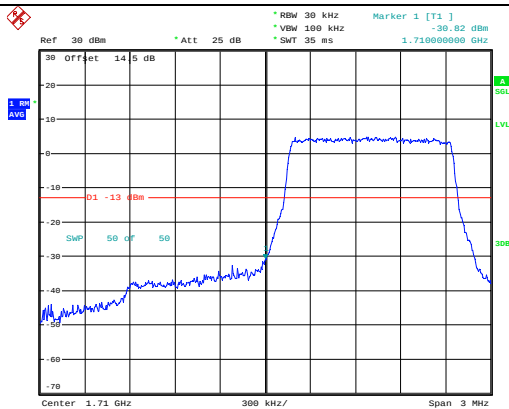
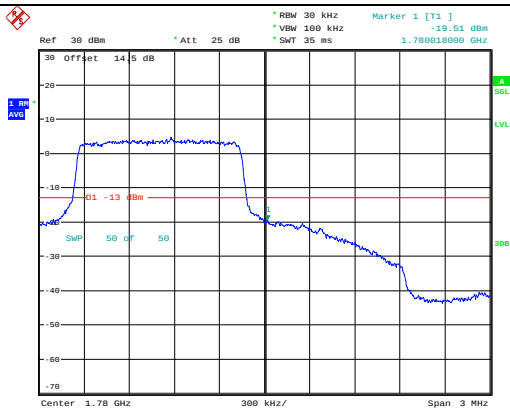
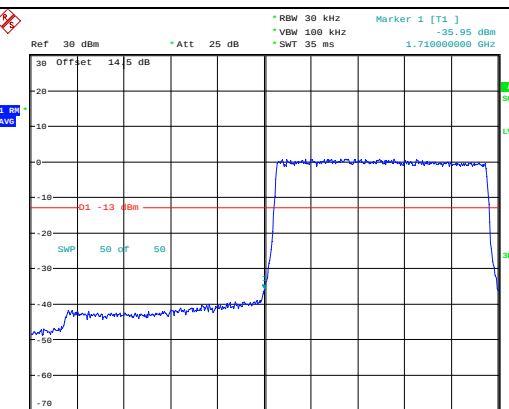
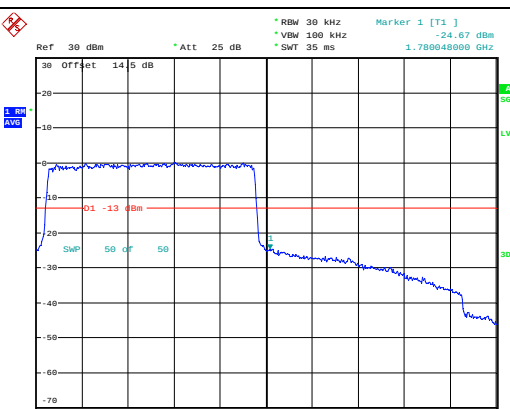
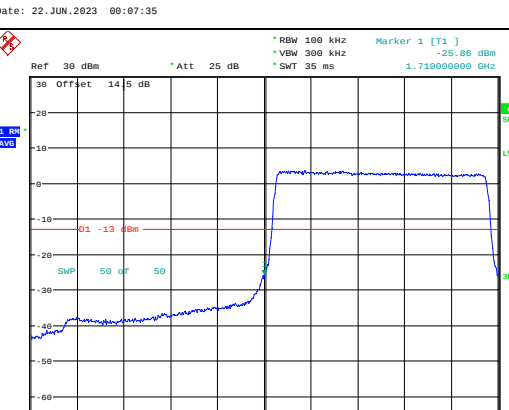
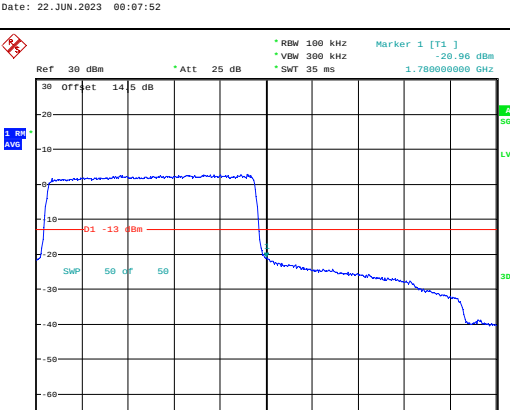


Date: 24.JUN.2023 10:35:57

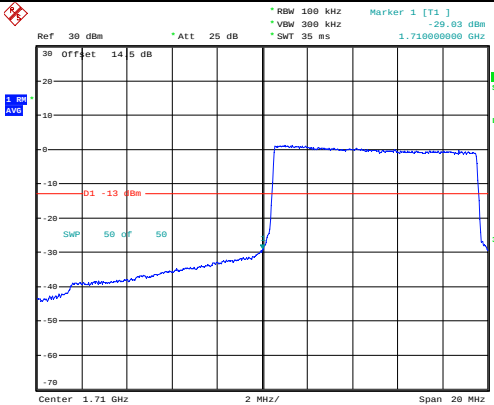
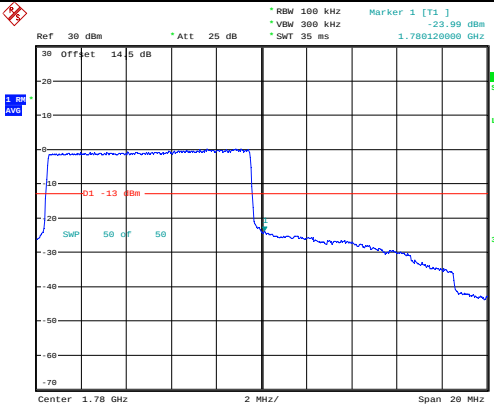
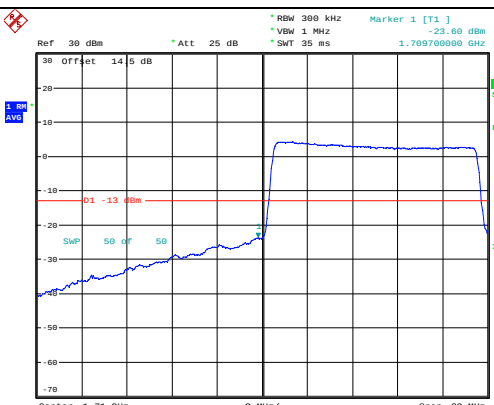
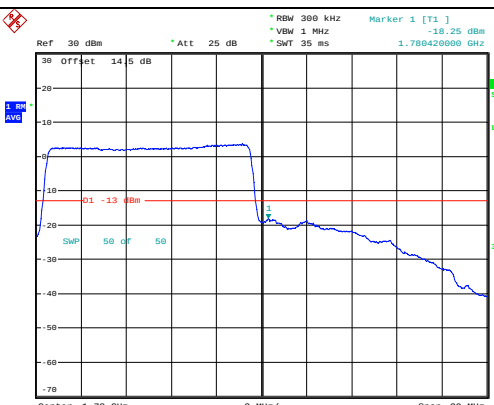
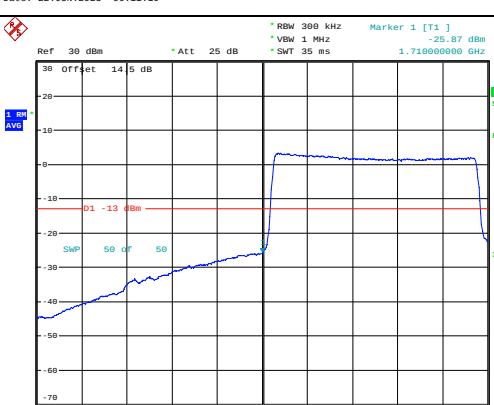
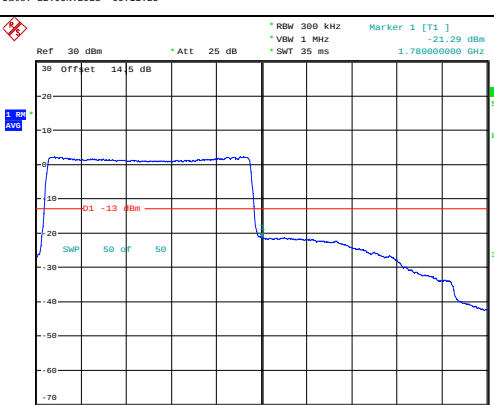


Date: 24.JUN.2023 10:36:08

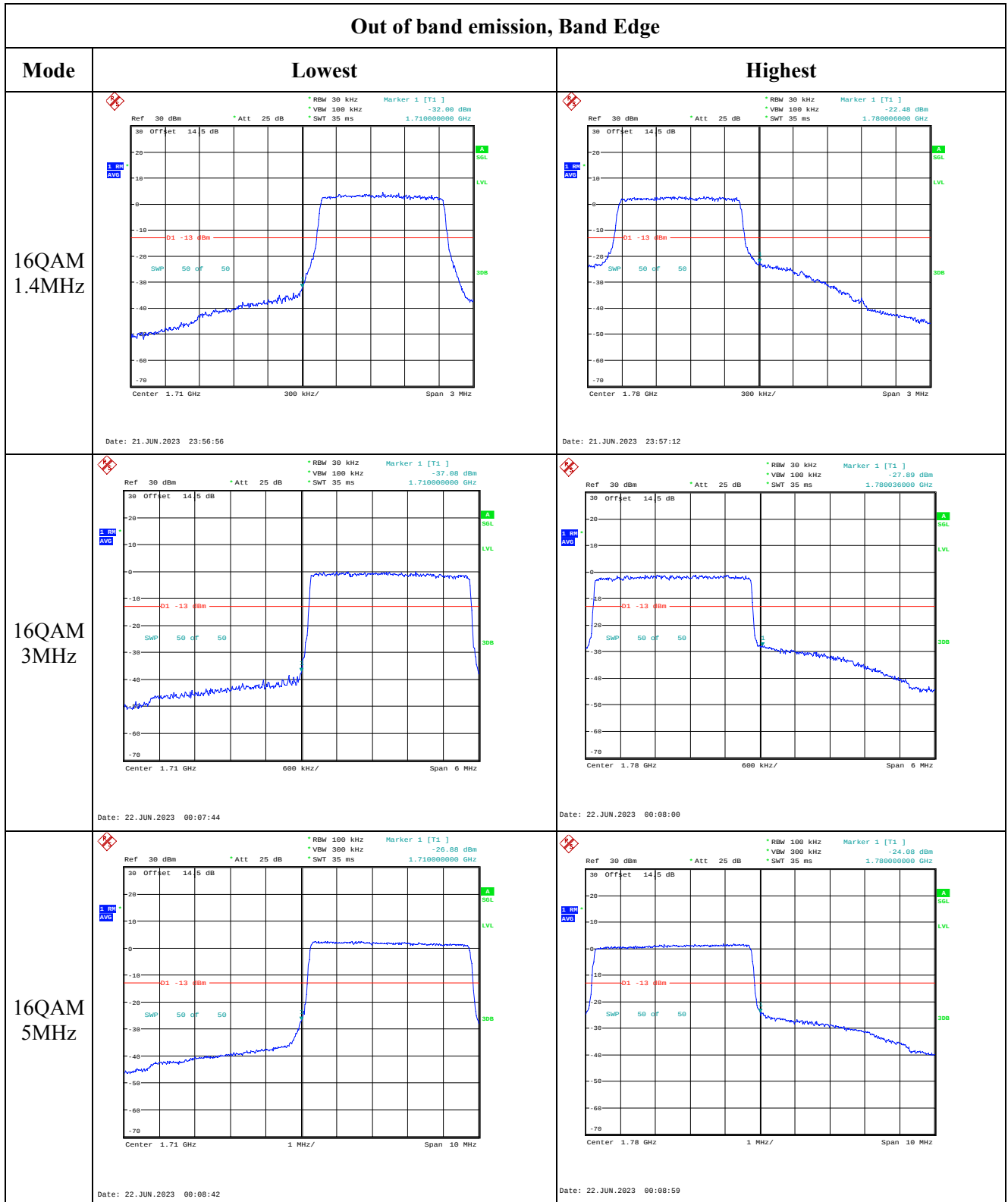
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	 Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -30.82 dBm VBW 100 kHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 300 kHz/ Span 3 MHz Date: 21 JUN 2023 23:56:48	 Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -19.51 dBm VBW 100 kHz SWT 35 ms 1.780015000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 300 kHz/ Span 3 MHz Date: 21 JUN 2023 23:57:04
QPSK 3MHz	 Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -35.95 dBm VBW 100 kHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 600 kHz/ Span 6 MHz Date: 22 JUN 2023 00:07:35	 Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -24.67 dBm VBW 100 kHz SWT 35 ms 1.780015000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 600 kHz/ Span 6 MHz Date: 22 JUN 2023 00:07:52
QPSK 5MHz	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -25.96 dBm VBW 300 kHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 1 MHz/ Span 10 MHz Date: 22 JUN 2023 00:08:33	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -25.96 dBm VBW 300 kHz SWT 35 ms 1.780015000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 1 MHz/ Span 10 MHz Date: 22 JUN 2023 00:08:51

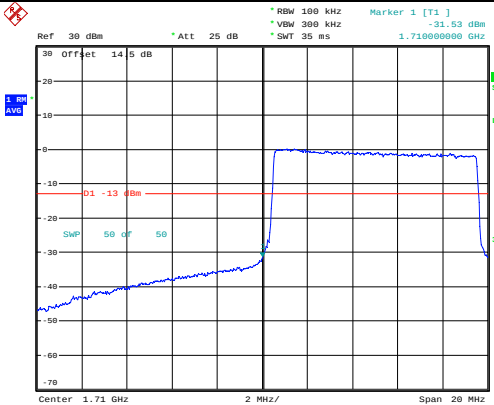
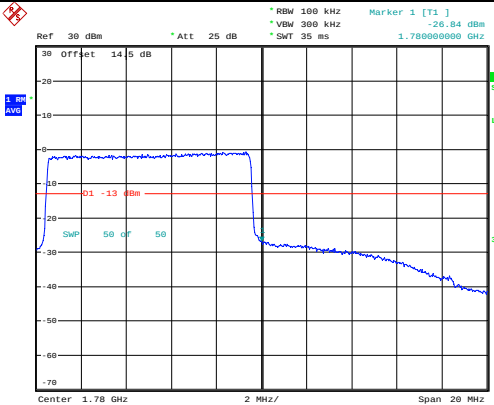
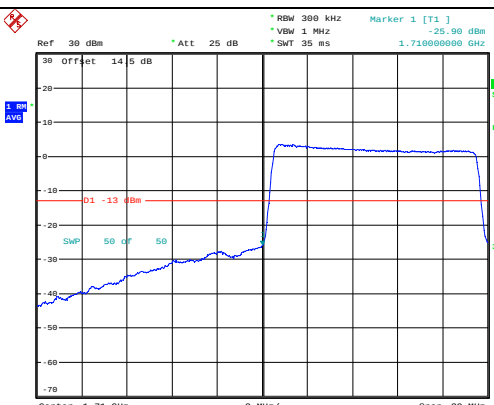
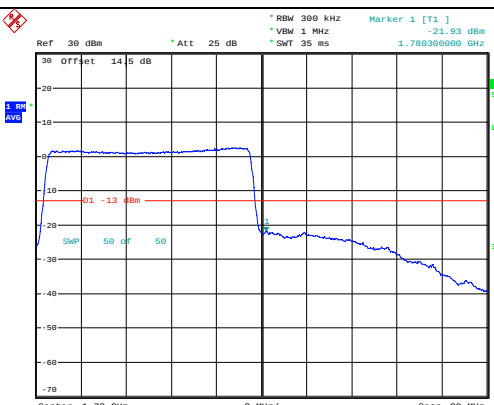
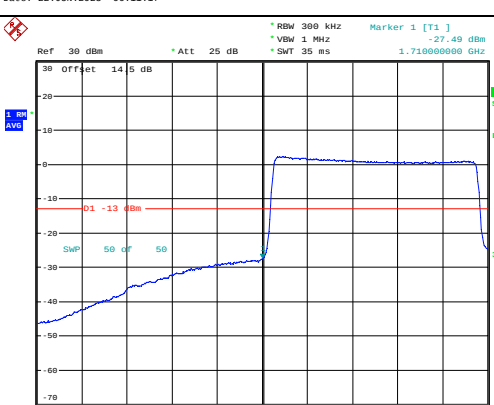
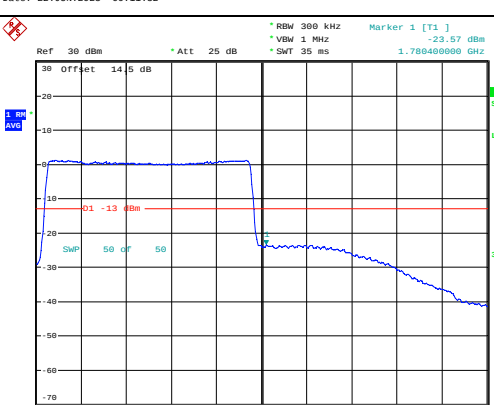
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	 Ref: 30 dBm, Att: 25 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 35 ms, Marker 1 [T1]: 1.710000000 GHz, -29.03 dBm Center: 1.71 GHz, Span: 20 MHz Date: 22 JUN 2023 00:09:55	 Ref: 30 dBm, Att: 25 dB, RBW: 100 kHz, VBW: 300 kHz, SWT: 35 ms, Marker 1 [T1]: 1.780120000 GHz, -23.99 dBm Center: 1.78 GHz, Span: 20 MHz Date: 22 JUN 2023 00:10:14
QPSK 15MHz	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SWT: 35 ms, Marker 1 [T1]: 1.709700000 GHz, -25.60 dBm Center: 1.71 GHz, Span: 30 MHz Date: 22 JUN 2023 00:11:10	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SWT: 35 ms, Marker 1 [T1]: 1.780420000 GHz, -18.25 dBm Center: 1.78 GHz, Span: 30 MHz Date: 22 JUN 2023 00:11:25
QPSK 20MHz	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SWT: 35 ms, Marker 1 [T1]: 1.710000000 GHz, -25.87 dBm Center: 1.71 GHz, Span: 40 MHz Date: 22 JUN 2023 00:23:31	 Ref: 30 dBm, Att: 25 dB, RBW: 300 kHz, VBW: 1 MHz, SWT: 35 ms, Marker 1 [T1]: 1.780000000 GHz, -21.29 dBm Center: 1.78 GHz, Span: 40 MHz Date: 22 JUN 2023 00:23:46

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -21.53 dBm VBW 300 kHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 2 MHz/ Span 20 MHz Date: 22 JUN 2023 00:10:04	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -26.94 dBm VBW 300 kHz SWT 35 ms 1.780000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 2 MHz/ Span 20 MHz Date: 22 JUN 2023 00:10:23
16QAM 15MH	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -25.90 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 3 MHz/ Span 30 MHz Date: 22 JUN 2023 00:11:17	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -23.93 dBm VBW 1 MHz SWT 35 ms 1.780300000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 3 MHz/ Span 30 MHz Date: 22 JUN 2023 00:11:32
16QAM 20MH	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -27.49 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.71 GHz 4 MHz/ Span 40 MHz Date: 22 JUN 2023 00:23:38	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -23.57 dBm VBW 1 MHz SWT 35 ms 1.780400000 GHz 30 Offset 14.5 dB D1 -13 dBm SWP 50 OF 50 Center 1.78 GHz 4 MHz/ Span 40 MHz Date: 22 JUN 2023 00:23:53

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: (°C)	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		

20MHz 16QAM	RB50#0	24.38	23.99	24.07	19.72	34.77
	RB50#50	24.36	24.15	24.23		
	RB100#0	24.35	24.09	24.13		
	RB1#0	24.09	24.12	24.17		
	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) - Lc(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.
----------------	---

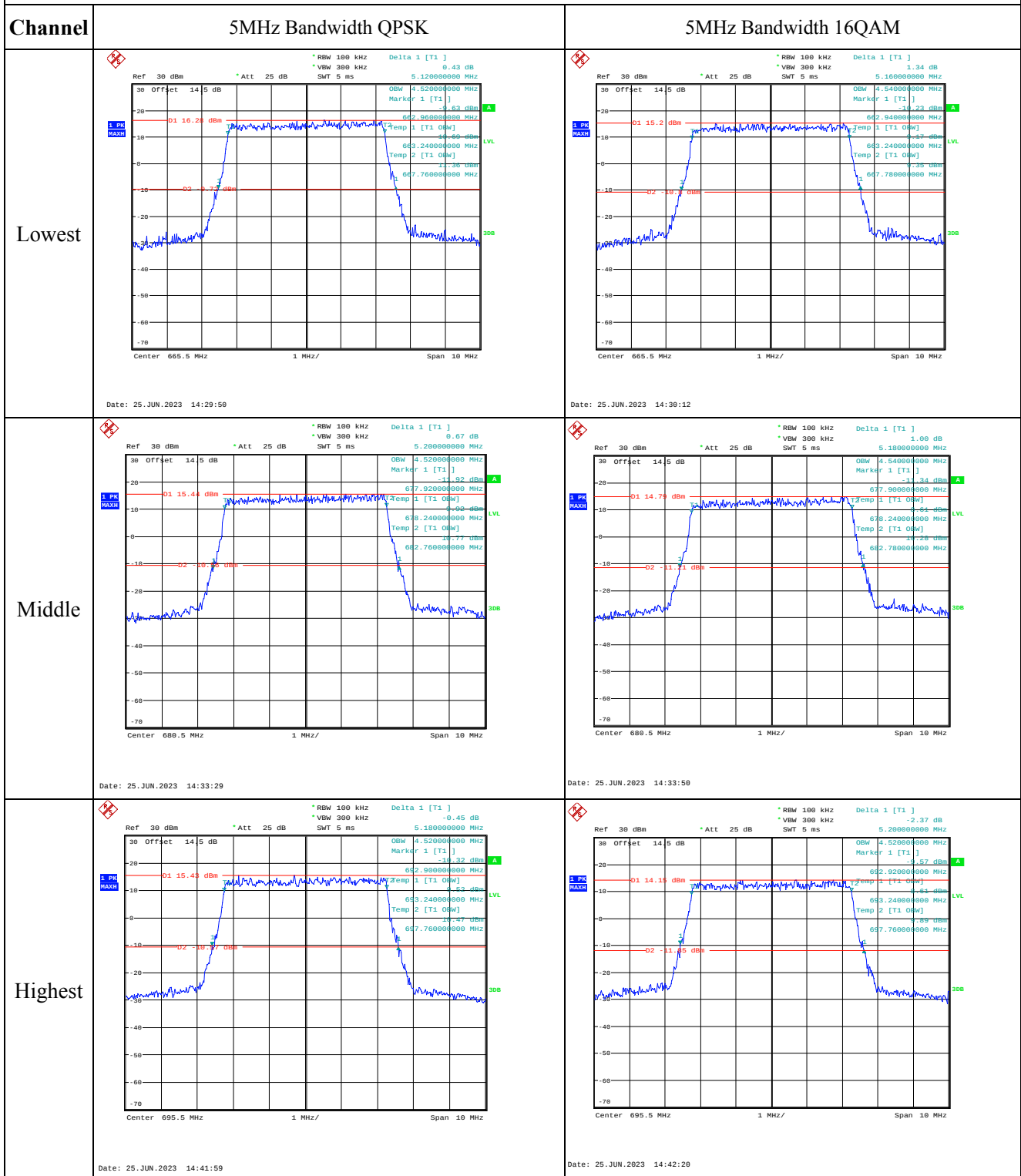
FCC §2.1055, §27.54: Frequency Stability

Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge, Highest for Upper Edge				
Test Item	Temperature (°C)	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(°C)	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

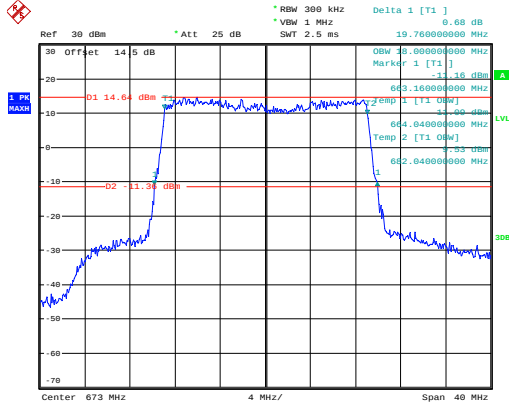
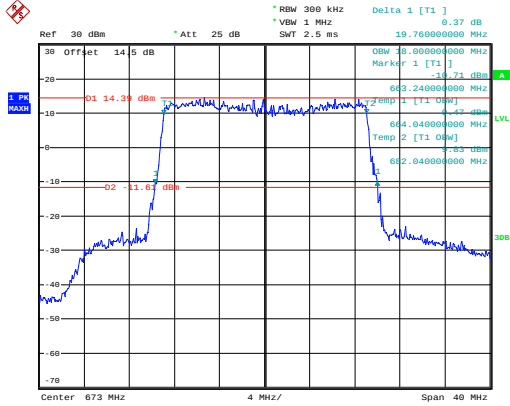
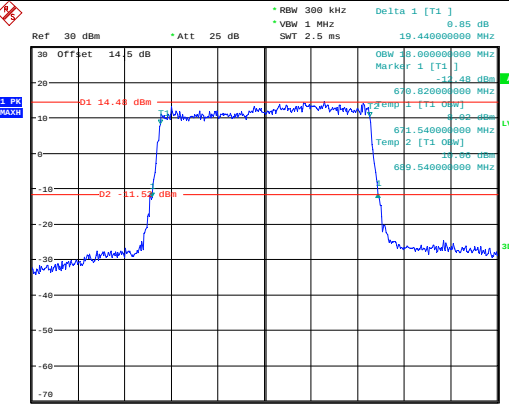
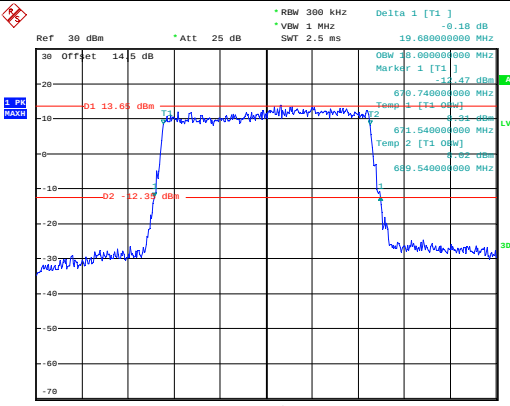
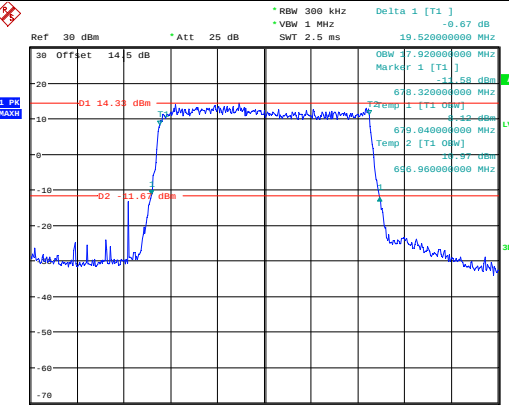
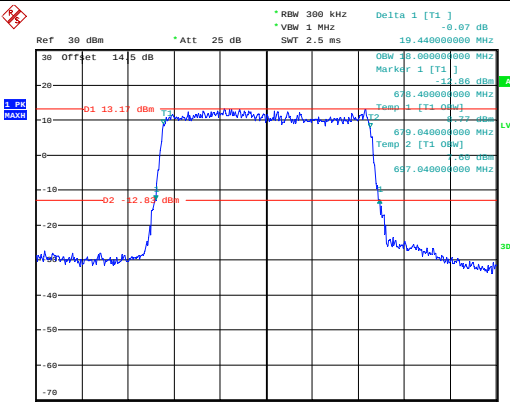


Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.35 dB OBW 9.720000000 MHz Marker 1 [T1] -11.36 dBm Temp 1 [T1 0dB] 663.160000000 MHz Temp 2 [T1 0dB] 672.480000000 MHz LVL 30dB Center 668 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:45:07	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.83 dB OBW 9.840000000 MHz Marker 1 [T1] -11.90 dBm Temp 1 [T1 0dB] 663.080000000 MHz Temp 2 [T1 0dB] 672.480000000 MHz LVL 30dB Center 668 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:45:26
Middle	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.36 dB OBW 9.880000000 MHz Marker 1 [T1] -11.44 dBm Temp 1 [T1 0dB] 676.020000000 MHz Temp 2 [T1 0dB] 684.980000000 MHz LVL 30dB Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:47:46	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.24 dB OBW 9.840000000 MHz Marker 1 [T1] -11.93 dBm Temp 1 [T1 0dB] 676.020000000 MHz Temp 2 [T1 0dB] 684.980000000 MHz LVL 30dB Center 680.5 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 14:48:08
Highest	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 1.83 dB OBW 10.000000000 MHz Marker 1 [T1] -11.47 dBm Temp 1 [T1 0dB] 688.080000000 MHz Temp 2 [T1 0dB] 697.480000000 MHz LVL 30dB Center 693 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 15:56:05	Ref 30 dBm Att 25 dB RBW 100 kHz VBW 300 kHz SWT 10 ms Delta 1 [T1] 0.91 dB OBW 9.840000000 MHz Marker 1 [T1] -11.47 dBm Temp 1 [T1 0dB] 688.080000000 MHz Temp 2 [T1 0dB] 697.480000000 MHz LVL 30dB Center 693 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 15:56:26

Occupied Bandwidth		
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.09 dB *VBW 1 MHz SWT 2.5 ms 19.680000000 MHz OBW 19.680000000 MHz Marker 1 [T1] -1.56 dBm 662.220000000 MHz 663.660000000 MHz 663.720000000 MHz 667.340000000 MHz Temp 1 [T1 Offw] -1.87 dBm Temp 2 [T1 Offw] -1.82 dBm LVL 308 Center 670.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 15:59:33	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.99 dB *VBW 1 MHz SWT 2.5 ms 15.360000000 MHz OBW 15.360000000 MHz Marker 1 [T1] -1.91 dBm 662.760000000 MHz 663.720000000 MHz 667.280000000 MHz Temp 1 [T1 Offw] -1.93 dBm Temp 2 [T1 Offw] -1.92 dBm LVL 308 Center 670.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 15:59:56
Middle	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.60 dB *VBW 1 MHz SWT 2.5 ms 15.360000000 MHz OBW 15.360000000 MHz Marker 1 [T1] -1.68 dBm 672.940000000 MHz 673.780000000 MHz 673.780000000 MHz 677.280000000 MHz Temp 1 [T1 Offw] -1.68 dBm Temp 2 [T1 Offw] -1.68 dBm LVL 308 Center 680.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 16:00:56	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.66 dB *VBW 1 MHz SWT 2.5 ms 14.940000000 MHz OBW 14.940000000 MHz Marker 1 [T1] -1.83 dBm 673.060000000 MHz 673.780000000 MHz 673.780000000 MHz 677.280000000 MHz Temp 1 [T1 Offw] -1.83 dBm Temp 2 [T1 Offw] -1.82 dBm LVL 308 Center 680.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 16:01:20
Highest	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.20 dB *VBW 1 MHz SWT 2.5 ms 15.660000000 MHz OBW 15.660000000 MHz Marker 1 [T1] -1.88 dBm 683.080000000 MHz 683.720000000 MHz 683.720000000 MHz 687.280000000 MHz Temp 1 [T1 Offw] -1.88 dBm Temp 2 [T1 Offw] -1.82 dBm LVL 308 Center 690.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 16:02:49	Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.00 dB *VBW 1 MHz SWT 2.5 ms 15.240000000 MHz OBW 15.240000000 MHz Marker 1 [T1] -1.68 dBm 682.880000000 MHz 683.660000000 MHz 683.660000000 MHz 687.280000000 MHz Temp 1 [T1 Offw] -1.68 dBm Temp 2 [T1 Offw] -1.62 dBm LVL 308 Center 690.5 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 16:03:12

Occupied Bandwidth

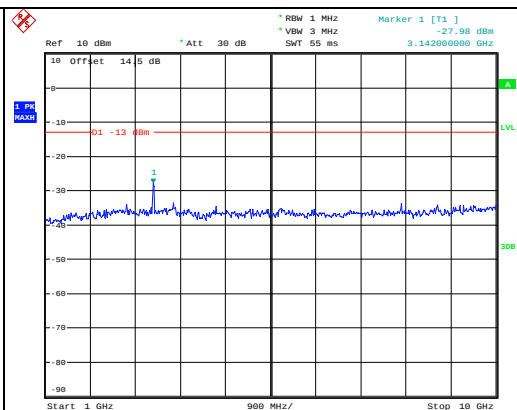
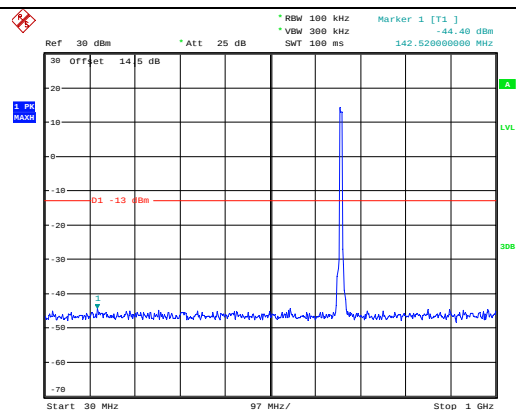
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.68 dB VBW 1 MHz SWT 2.5 ms 19.760000000 MHz Marker 1 [T1] -11.36 dBm Temp 1 [T1 0dB] -11.36 dBm Temp 2 [T1 0dB] -11.36 dBm Center 673 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 16:25:46	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.37 dB VBW 1 MHz SWT 2.5 ms 19.760000000 MHz Marker 1 [T1] -11.61 dBm Temp 1 [T1 0dB] -11.61 dBm Temp 2 [T1 0dB] -11.61 dBm Center 673 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 17:29:58
Middle	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] 0.85 dB VBW 1 MHz SWT 2.5 ms 19.440000000 MHz Marker 1 [T1] -11.59 dBm Temp 1 [T1 0dB] -11.59 dBm Temp 2 [T1 0dB] -11.59 dBm Center 688.5 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 17:30:55	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] -0.18 dB VBW 1 MHz SWT 2.5 ms 19.680000000 MHz Marker 1 [T1] -12.39 dBm Temp 1 [T1 0dB] -12.39 dBm Temp 2 [T1 0dB] -12.39 dBm Center 688.5 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 17:31:18
Highest	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] -0.67 dB VBW 1 MHz SWT 2.5 ms 19.520000000 MHz Marker 1 [T1] -11.67 dBm Temp 1 [T1 0dB] -11.67 dBm Temp 2 [T1 0dB] -11.67 dBm Center 688 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 17:32:06	 Ref 30 dBm Offset 14.5 dB Att 25 dB RBW 300 kHz Delta 1 [T1] -0.97 dB VBW 1 MHz SWT 2.5 ms 19.440000000 MHz Marker 1 [T1] -12.89 dBm Temp 1 [T1 0dB] -12.89 dBm Temp 2 [T1 0dB] -12.89 dBm Center 688 MHz 4 MHz/ Span 40 MHz Date: 25 JUN 2023 17:32:29

Spurious Emissions at Antenna Terminal

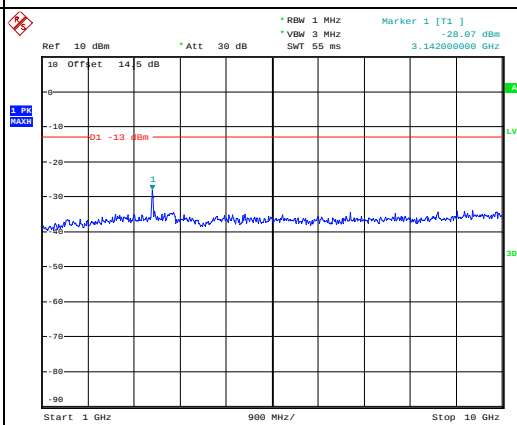
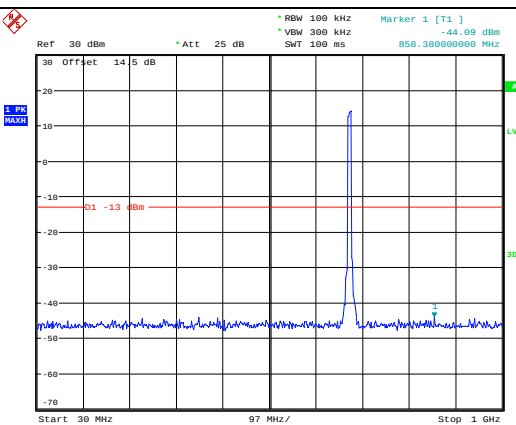
Channel

5MHz Bandwidth QPSK

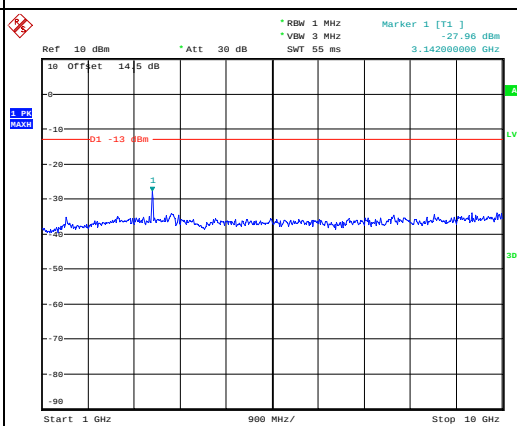
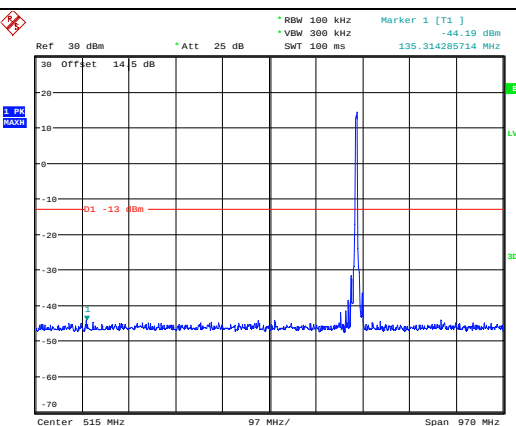
Lowest



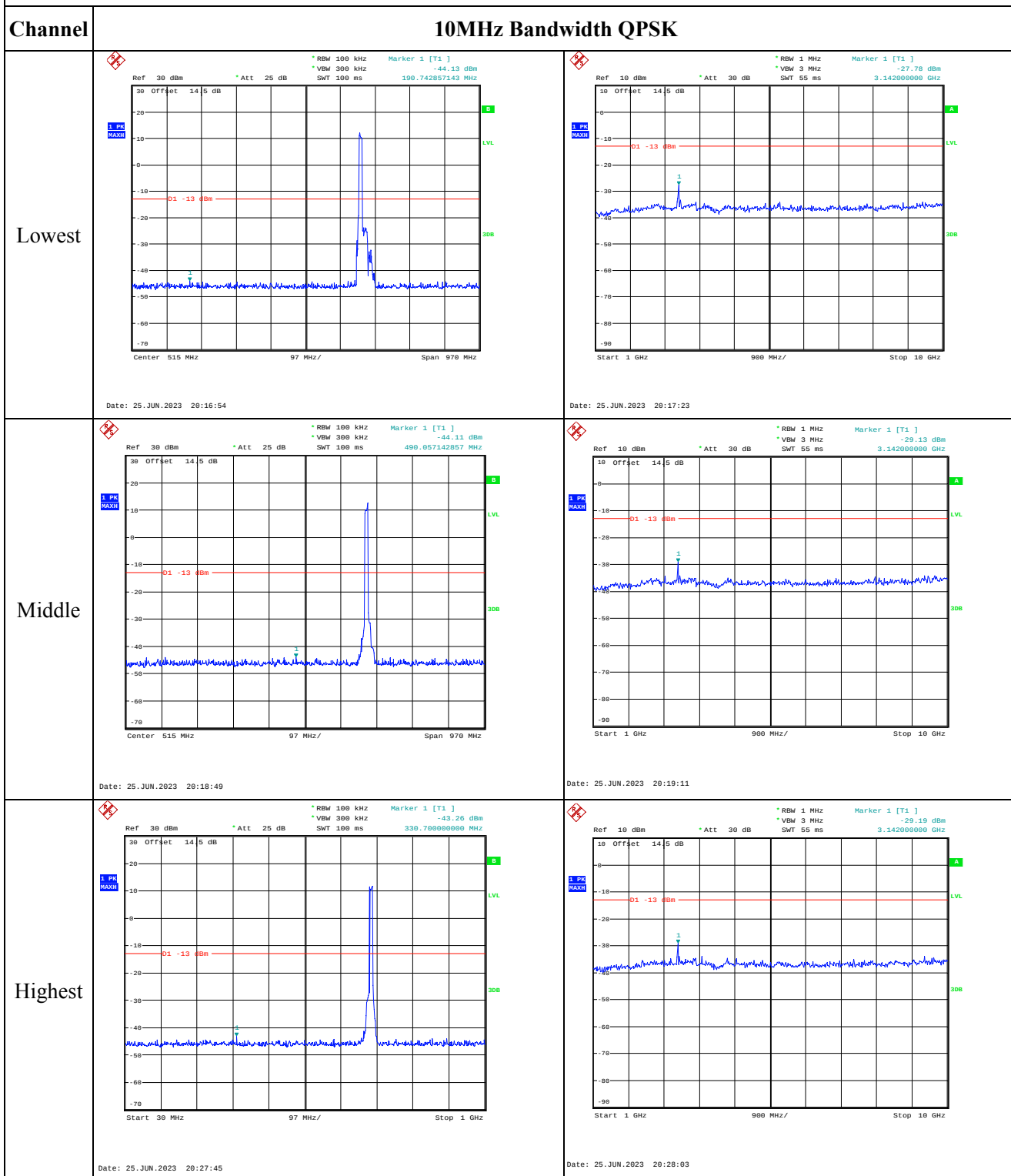
Middle



Highest



Spurious Emissions at Antenna Terminal

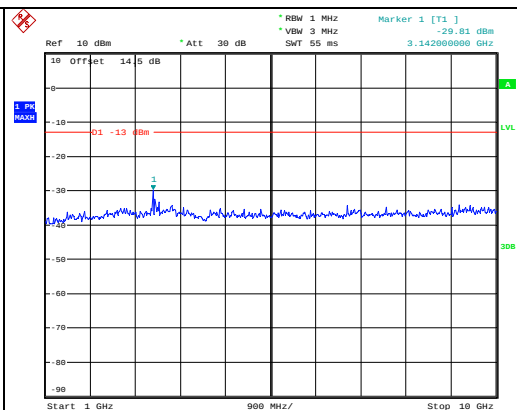
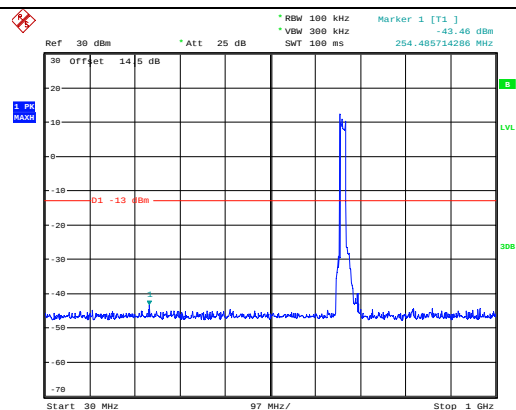


Spurious Emissions at Antenna Terminal

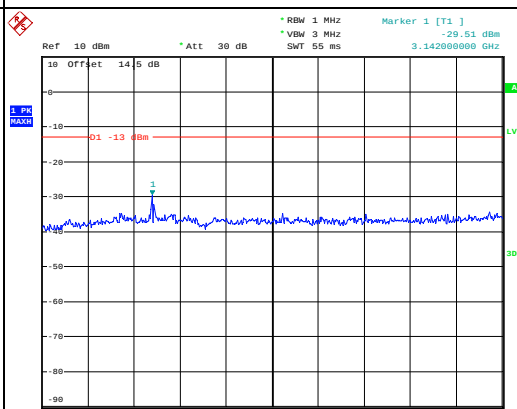
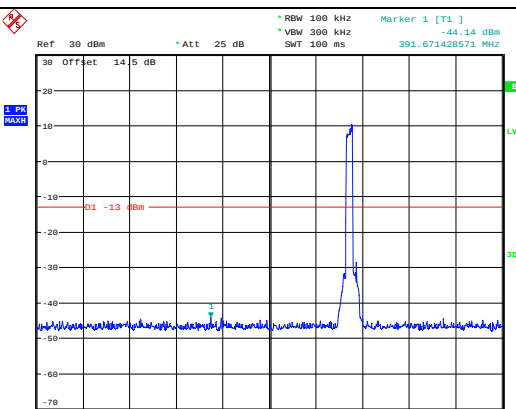
Channel

15MHz Bandwidth QPSK

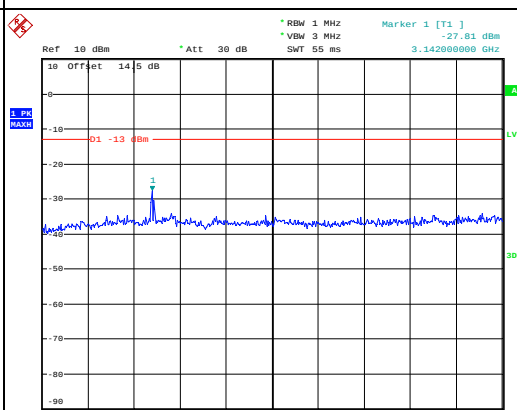
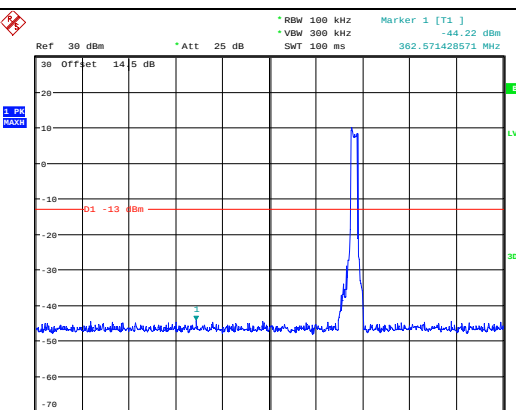
Lowest



Middle



Highest

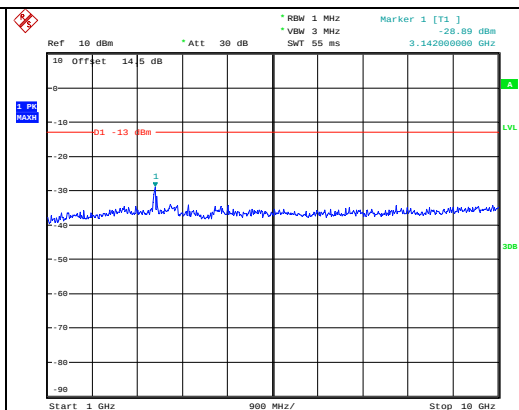
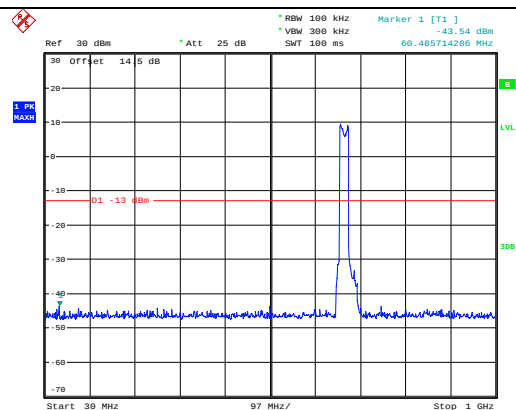


Spurious Emissions at Antenna Terminal

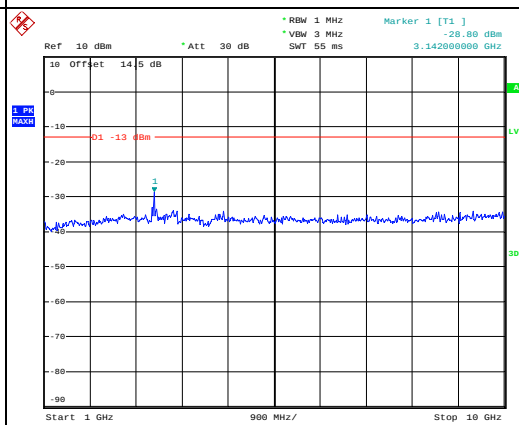
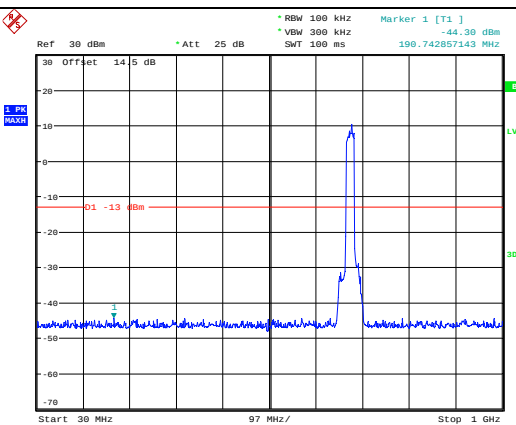
Channel

20MHz Bandwidth QPSK

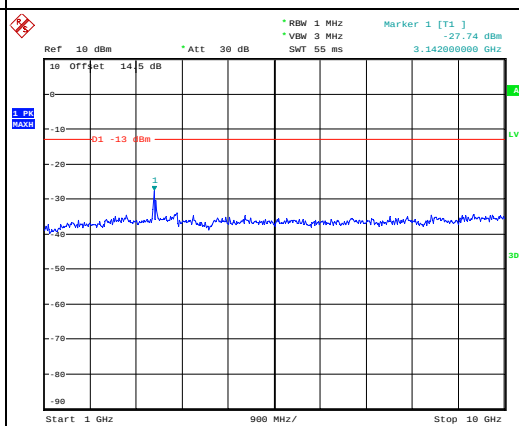
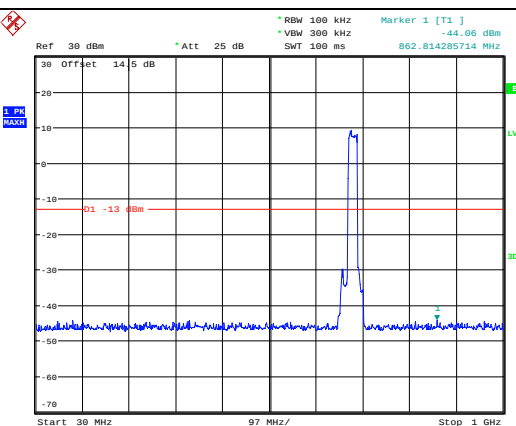
Lowest



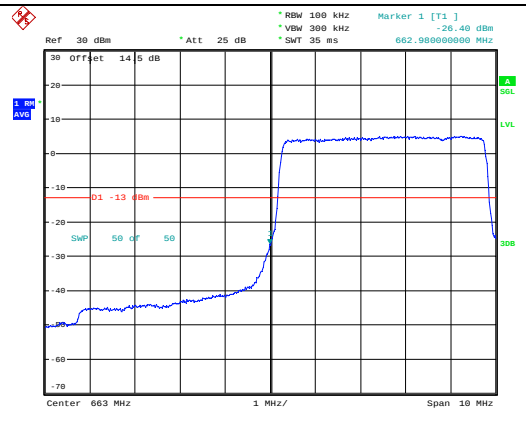
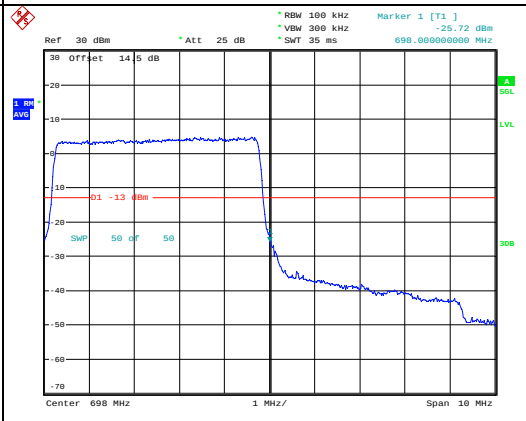
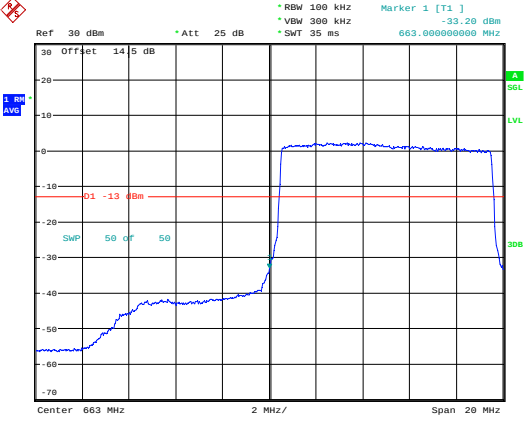
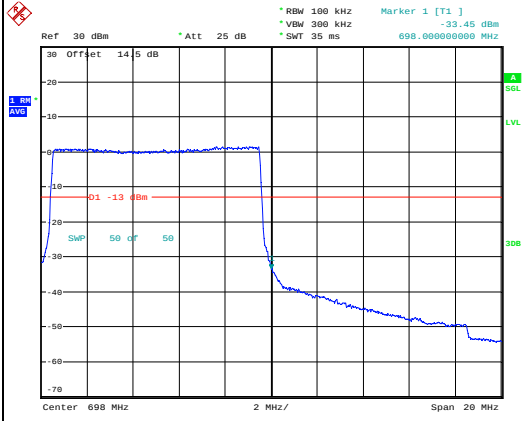
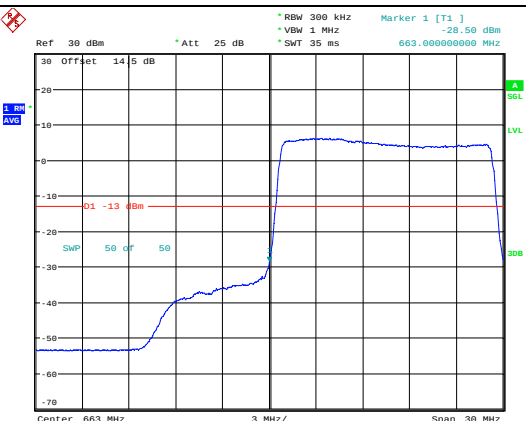
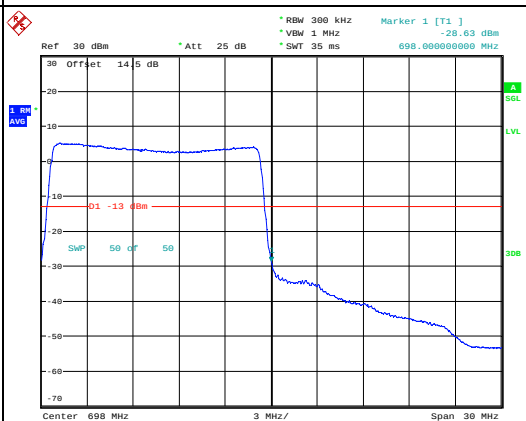
Middle

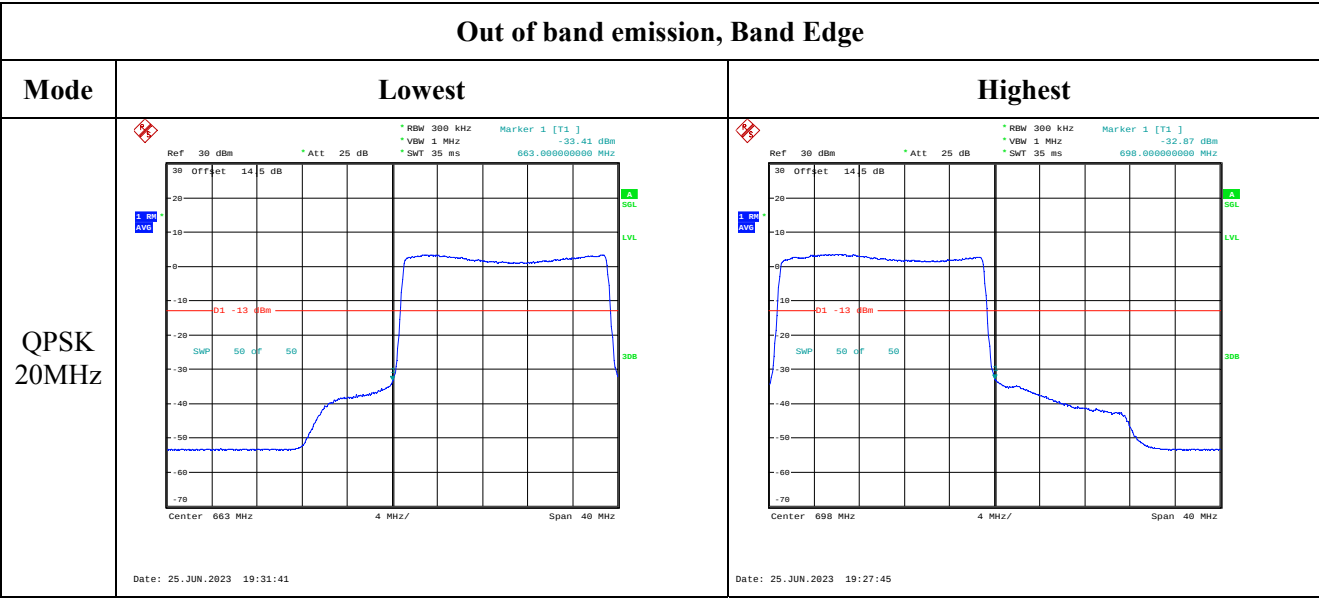


Highest

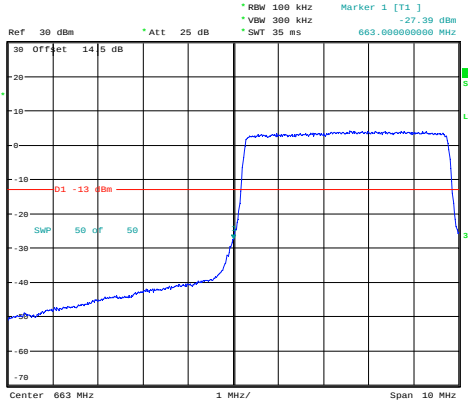
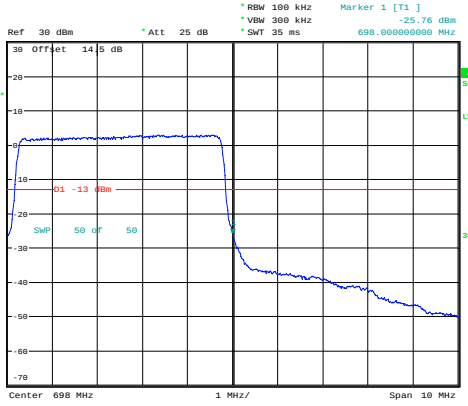
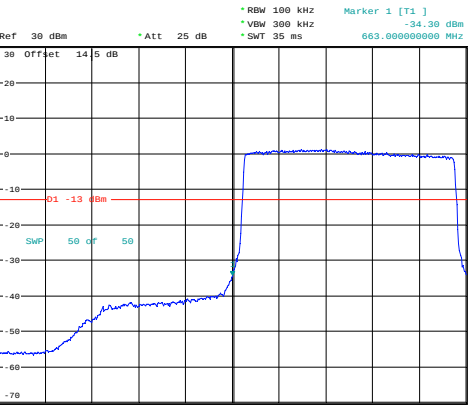
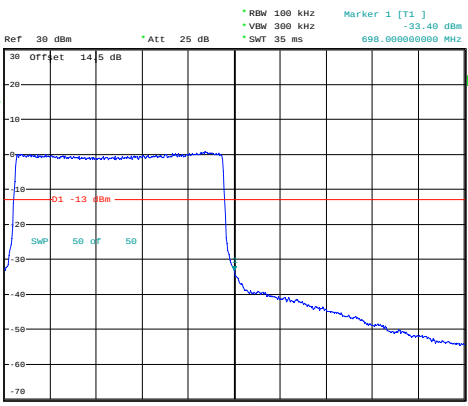
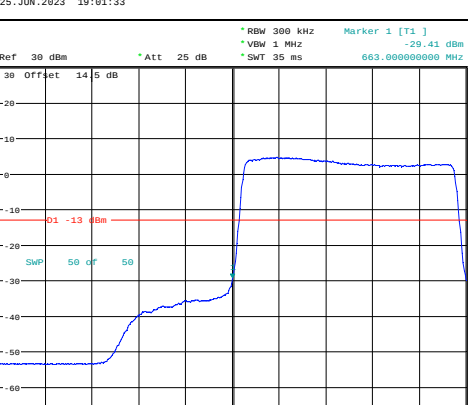
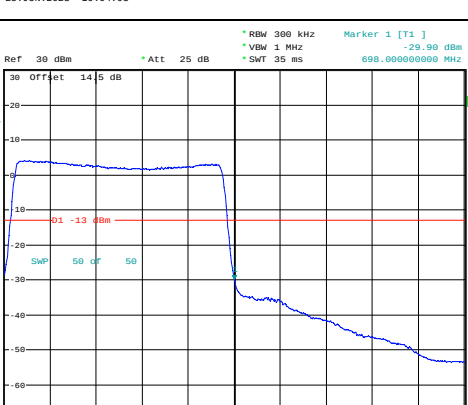


Out of band emission, Band Edge

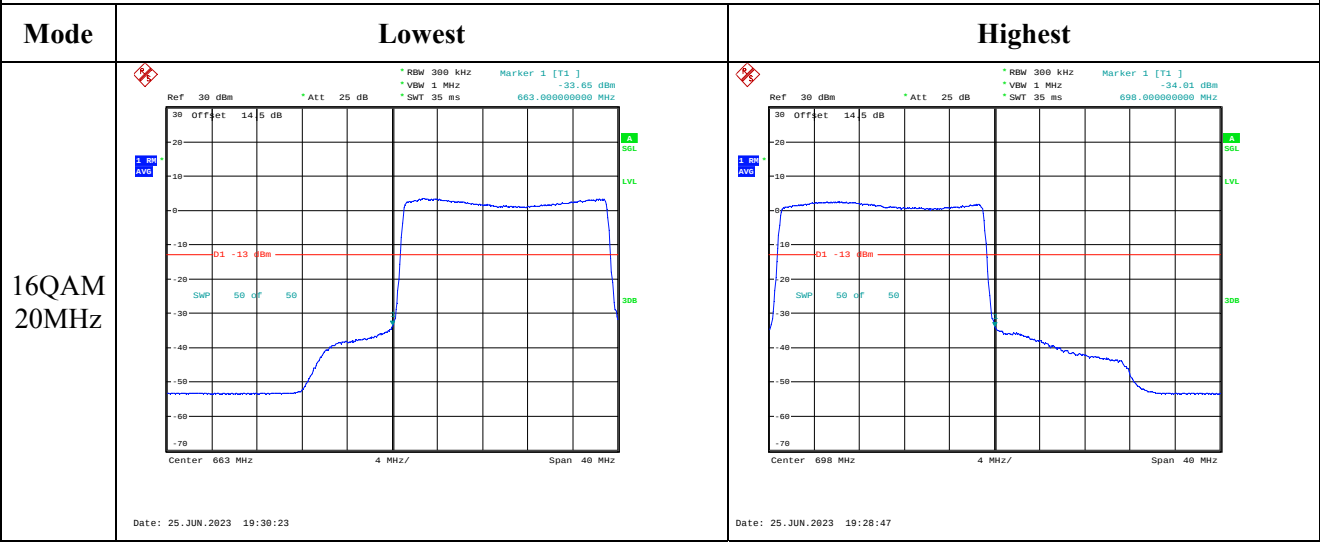
Mode	Lowest	Highest
QPSK 5MHz	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -26.40 dBm VBW 300 kHz 662.980000000 MHz SWT 35 ms Offset 14.5 dB Center 663 MHz 1 MHz/ Span 10 MHz Date: 25 JUN 2023 18:05:02	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -25.72 dBm VBW 300 kHz 698.000000000 MHz SWT 35 ms Offset 14.5 dB Center 698 MHz 1 MHz/ Span 10 MHz Date: 25 JUN 2023 18:56:13
QPSK 10MHz	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -33.20 dBm VBW 300 kHz 663.000000000 MHz SWT 35 ms Offset 14.5 dB Center 663 MHz 2 MHz/ Span 20 MHz Date: 25 JUN 2023 19:00:59	 Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -33.45 dBm VBW 300 kHz 698.000000000 MHz SWT 35 ms Offset 14.5 dB Center 698 MHz 2 MHz/ Span 20 MHz Date: 25 JUN 2023 19:03:17
QPSK 15MHz	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -28.50 dBm VBW 1 MHz 663.000000000 MHz SWT 35 ms Offset 14.5 dB Center 663 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 19:12:28	 Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -28.63 dBm VBW 1 MHz 698.000000000 MHz SWT 35 ms Offset 14.5 dB Center 698 MHz 3 MHz/ Span 30 MHz Date: 25 JUN 2023 19:16:59



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -27.39 dBm 663.000000000 MHz Center 663 MHz 1 MHz/ Span 10 MHz Date: 25.JUN.2023 18:05:11	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -25.76 dBm 698.000000000 MHz Center 698 MHz 1 MHz/ Span 10 MHz Date: 25.JUN.2023 18:57:20
16QAM 10MHz	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -34.30 dBm 663.000000000 MHz Center 663 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 19:01:33	 Ref 30 dBm * Att 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -33.40 dBm 698.000000000 MHz Center 698 MHz 2 MHz/ Span 20 MHz Date: 25.JUN.2023 19:04:03
16QAM 15MHz	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -29.41 dBm 663.000000000 MHz Center 663 MHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 19:14:07	 Ref 30 dBm * Att 25 dB * RBW 300 kHz * VBW 1 MHz * SWT 35 ms * Marker 1 [T1] -29.90 dBm 698.000000000 MHz Center 698 MHz 3 MHz/ Span 30 MHz Date: 25.JUN.2023 19:17:48

Out of band emission, Band Edge



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: (°C)	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
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
Quinstar	Preamplifier	QLW-18405536-JO	15964001005	2022/09/16	2023/09/15
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNAK	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)

1850 Band (GSM 1900)								
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):

SITE DATA #2 (CONTINUED TO CH17)								
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 =====