

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 15MHz	<p>Date: 30.JUN.2023 10:29:18</p>	<p>Date: 30.JUN.2023 10:29:37</p>
QPSK 20MHz	<p>Date: 30.JUN.2023 10:30:20</p>	<p>Date: 30.JUN.2023 10:30:40</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -28.67 dBm VSW 100 kHz SWT 35 ms 1.85000000 GHz</p> <p>Center 1.85 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.JUN.2023 10:16:23</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -21.01 dBm VSW 100 kHz SWT 35 ms 1.91500000 GHz</p> <p>Center 1.915 GHz 300 kHz/ Span 3 MHz</p> <p>Date: 30.JUN.2023 10:16:41</p>
16QAM 3MHz	<p>Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -33.70 dBm VSW 100 kHz SWT 35 ms 1.85000000 GHz</p> <p>Center 1.85 GHz 600 kHz/ Span 6 MHz</p> <p>Date: 30.JUN.2023 10:26:15</p>	<p>Ref 30 dBm Att 25 dB RBW 30 kHz Marker 1 [T1] -24.32 dBm VSW 100 kHz SWT 35 ms 1.915012000 GHz</p> <p>Center 1.915 GHz 600 kHz/ Span 6 MHz</p> <p>Date: 30.JUN.2023 10:26:33</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 5MHz	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -23.30 dBm Center 1.85000000 GHz</p>	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -20.83 dBm Center 1.91500000 GHz</p>
16QAM 10MHz	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -31.81 dBm Center 1.84990000 GHz</p>	<p>Ref 30 dBm * Act 25 dB * RBW 100 kHz * VBW 300 kHz * SWT 35 ms * Marker 1 [T1] -27.36 dBm Center 1.915040000 GHz</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 15MHz	<p>Date: 30.JUN.2023 10:29:27</p>	<p>Date: 30.JUN.2023 10:29:46</p>
16QAM 20MHz	<p>Date: 30.JUN.2023 10:30:30</p>	<p>Date: 30.JUN.2023 10:30:49</p>

4.12 Antenna Port Test Data and Results for LTE Band 26

Serial Number:	27A0-1	Test Date:	2023/6/27~2023/7/4
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-26.3	Relative Humidity: (%)	41-59	ATM Pressure: (kPa)	99.8-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/9/29	2023/9/28
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2022/7/15	2023/7/14

* 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	25.12	24.8	25.55	25.54	24.8	25.12	23.25	38.45
	RB1#3	25.25	25.0	25.74	25.73	24.99	25.32		
	RB1#5	25.02	24.9	25.56	25.55	24.81	24.78		
	RB3#0	25.2	25.0	25.73	25.72	24.98	24.68		
	RB3#3	25.17	25.1	25.77	25.76	25.02	24.7		
	RB6#0	24.13	24.0	24.67	24.66	23.92	23.66		
1.4MHz 16QAM	RB1#0	24.22	23.9	24.64	24.63	23.89	23.59	22.35	38.45
	RB1#3	24.43	24.2	24.87	24.86	24.12	23.76		
	RB1#5	24.16	24.0	24.66	24.65	23.91	23.58		
	RB3#0	24.17	24.1	24.84	24.83	24.09	23.89		
	RB3#3	24.16	24.1	24.85	24.84	24.1	23.89		
	RB6#0	23.2	23.0	23.67	23.66	22.92	22.71		
3MHz QPSK	RB1#0	25.12	24.9	25.64	25.63	24.89	25.11	23.17	38.45
	RB1#8	25.06	25.0	25.67	25.66	24.92	25.21		
	RB1#14	24.97	25.0	25.69	25.68	24.94	24.67		
	RB6#0	24.05	23.8	24.55	24.54	23.8	23.62		
	RB6#9	23.93	23.9	24.57	24.56	23.82	23.59		
	RB15#0	24.09	24.0	24.68	24.67	23.93	23.62		
3MHz 16QAM	RB1#0	24.74	24.1	24.80	24.79	24.05	23.64	22.35	38.45
	RB1#8	24.57	24.1	24.82	24.81	24.07	23.63		
	RB1#14	24.55	24.2	24.87	24.86	24.12	23.6		
	RB6#0	23.18	22.9	23.65	23.64	22.9	22.58		
	RB6#9	23.08	23.0	23.73	23.72	22.98	22.53		
	RB15#0	23.18	23.0	23.67	23.66	22.92	22.71		
5MHz QPSK	RB1#0	25.02	24.8	25.49	25.48	24.74	24.86	22.97	38.45
	RB1#13	25.06	24.8	25.48	25.47	24.73	24.76		
	RB1#24	24.64	24.7	25.38	25.37	24.63	24.57		
	RB15#0	23.75	23.8	24.49	24.48	23.74	23.73		
	RB15#10	23.53	23.8	24.49	24.48	23.74	23.35		
	RB25#0	23.67	23.8	24.50	24.49	23.75	23.51		
5MHz 16QAM	RB1#0	23.6	24.0	24.74	24.73	23.99	23.6	22.42	38.45
	RB1#13	23.51	24.2	24.94	24.93	24.19	23.6		
	RB1#24	23.36	24.0	24.74	24.73	23.99	23.57		
	RB15#0	22.94	22.8	23.48	23.47	22.73	22.78		
	RB15#10	22.69	22.9	23.59	23.58	22.84	22.4		
	RB25#0	22.93	23.0	23.69	23.68	22.94	22.58		
10MHz QPSK	RB1#0	25.12	/	25.52	25.51	24.77	25.09	23.3	38.45
	RB1#25	25.13	/	25.82	25.81	25.07	25.29		
	RB1#49	24.94	/	25.44	25.43	24.69	25.18		
	RB25#0	24.36	/	24.55	24.54	23.8	24.03		
	RB25#25	24.01	/	24.65	24.64	23.9	23.93		
	RB50#0	24.21	/	24.60	24.59	23.85	23.96		
10MHz 16QAM	RB1#0	24.61	/	24.79	24.78	24.04	24.21	22.41	38.45
	RB1#25	24.67	/	24.93	24.92	24.18	24.48		

	RB1#49	24.33	/	24.83	24.82	24.08	24.3		
	RB25#0	23.43	/	23.44	23.43	22.69	23.08		
	RB25#25	23.1	/	23.50	23.49	22.75	22.97		
	RB50#0	23.3	/	23.40	23.39	22.65	23.01		
15MHz QPSK	RB1#0	25.01	/	25.63	25.62	24.88	24.91	23.19	38.45
	RB1#38	25.03	/	25.71	25.70	24.96	24.58		
	RB1#74	24.71	/	25.71	25.70	24.96	24.49		
	RB36#0	24.34	/	24.53	24.52	23.78	23.74		
	RB36#39	24.07	/	24.64	24.63	23.89	23.61		
	RB75#0	24.21	/	24.61	24.60	23.86	23.68		
15MHz 16QAM	RB1#0	24.6	/	24.80	24.79	24.05	23.94	22.37	38.45
	RB1#38	24.66	/	24.89	24.88	24.14	23.99		
	RB1#74	24.4	/	24.86	24.85	24.11	23.86		
	RB36#0	23.35	/	23.58	23.57	22.83	22.74		
	RB36#39	23.11	/	23.72	23.71	22.97	22.59		
	RB75#0	23.3	/	23.69	23.68	22.94	22.66		

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	8.49	8.56	8.56	13
	RB75#0	6.19	5.54	6.35	13
15MHz 16QAM	RB1#0	8.49	8.72	8.43	13
	RB75#0	6.99	6.7	7.15	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	1.098	1.104	1.104	1.11	1.098	1.098
1.4MHz 16QAM	1.098	1.098	1.11	1.098	1.098	1.104
3MHz QPSK	2.687	2.683	2.688	2.683	2.687	2.687
3MHz 16QAM	2.676	2.692	2.676	2.683	2.687	2.676
5MHz QPSK	4.5	4.503	4.535	4.503	4.52	4.52
5MHz 16QAM	4.5	4.503	4.503	4.52	4.5	4.5
10MHz QPSK	9	/	8.974	8.91	8.92	8.92
10MHz 16QAM	9	/	8.942	9.506	8.96	8.92
15MHz QPSK	13.560	/	13.558	14.760	13.44	13.44
15MHz 16QAM	13.62	/	13.51	14.82	13.51	13.44

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	1.308	1.296	1.309	1.33	1.284	1.296
1.4MHz 16QAM	1.278	1.307	1.334	1.303	1.278	1.320
3MHz QPSK	2.904	2.885	2.885	2.875	2.856	2.880
3MHz 16QAM	2.880	2.91	2.897	2.875	2.880	2.880
5MHz QPSK	4.9	4.929	4.994	4.92	4.96	4.88
5MHz 16QAM	4.9	4.984	4.942	4.99	4.9	4.9
10MHz QPSK	10	/	9.615	9.558	9.48	9.44
10MHz 16QAM	10	/	9.487	8.942	9.52	9.48
15MHz QPSK	14.760	/	15.24	13.44	14.58	14.52
15MHz 16QAM	14.82	/	14.76	13.44	14.86	14.70

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	3.85	0.62	0.001	2.5
	-20	3.85	-4.42	-0.005	2.5
	-10	3.85	8.82	0.011	2.5
	0	3.85	9.7	0.012	2.5
	10	3.85	9.71	0.012	2.5
	20	3.85	-6.98	-0.008	2.5
	30	3.85	-5.09	-0.006	2.5
	40	3.85	-3.16	-0.004	2.5
	50	3.85	-5.87	-0.007	2.5
Frequency Stability vs. Voltage	20	3.6	-4.05	-0.005	2.5
	20	4.35	8.5	0.010	2.5
Result:					Pass

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	3.85	-1.28	-0.002	2.5
	-20	3.85	8.28	0.010	2.5
	-10	3.85	7.96	0.010	2.5
	0	3.85	10.07	0.012	2.5
	10	3.85	-5.21	-0.006	2.5
	20	3.85	-5.63	-0.007	2.5
	30	3.85	9.52	0.011	2.5
	40	3.85	-6.52	-0.008	2.5
	50	3.85	-3.47	-0.004	2.5
Frequency Stability vs. Voltage	20	3.6	-5.52	-0.007	2.5
	20	4.35	8.34	0.010	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	3.85	0.63	0.001	2.5
	-20	3.85	-4.82	-0.006	2.5
	-10	3.85	9.49	0.011	2.5
	0	3.85	9.84	0.012	2.5
	10	3.85	9.63	0.012	2.5
	20	3.85	-7.16	-0.009	2.5
	30	3.85	-4.92	-0.006	2.5
	40	3.85	-3.1	-0.004	2.5
	50	3.85	-6.13	-0.007	2.5
Frequency Stability vs. Voltage	20	3.6	-4.07	-0.005	2.5
	20	4.35	8.6	0.010	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	3.85	-0.37	0.000	2.5
	-20	3.85	8.87	0.011	2.5
	-10	3.85	8.69	0.010	2.5
	0	3.85	10.74	0.013	2.5
	10	3.85	-4.37	-0.005	2.5
	20	3.85	-4.54	-0.005	2.5
	30	3.85	9.83	0.012	2.5
	40	3.85	-5.95	-0.007	2.5
	50	3.85	-2.76	-0.003	2.5
Frequency Stability vs. Voltage	20	3.6	-5.06	-0.006	2.5
	20	4.35	8.89	0.011	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	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -1.33 dB *VSW 100 kHz *SWT 15 ms 1.308000000 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.33 dB 814.0400000 MHz 814.2400000 MHz Temp 1 [T1] OSW 814.1480000 MHz Temp 2 [T1] OSW 815.2460000 MHz</p> <p style="font-size: x-small;">Date: 29.JUN.2023 23:38:22</p>	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] -0.10 dB *VSW 100 kHz *SWT 15 ms 1.278000000 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.07 dB 814.0000000 MHz 814.2400000 MHz Temp 1 [T1] OSW 814.1480000 MHz Temp 2 [T1] OSW 815.2460000 MHz</p> <p style="font-size: x-small;">Date: 29.JUN.2023 23:38:48</p>
Highest For 90S	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.01 dB *VSW 100 kHz *SWT 15 ms 1.296076923 MHz OSW 1.104000000 MHz Marker 1 [T1] -1.82 dB 823.6419346 MHz 823.7480000 MHz Temp 1 [T1] OSW 823.8520000 MHz</p> <p style="font-size: x-small;">Date: 1.JUL.2023 15:50:13</p>	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.17 dB *VSW 100 kHz *SWT 15 ms 1.306769231 MHz OSW 1.098000000 MHz Marker 1 [T1] -1.87 dB 823.6433052 MHz 823.7480000 MHz Temp 1 [T1] OSW 823.8520000 MHz</p> <p style="font-size: x-small;">Date: 1.JUL.2023 15:49:11</p>
Cross Channel	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.15 dB *VSW 100 kHz *SWT 15 ms 1.308769231 MHz OSW 1.104000000 MHz Marker 1 [T1] -1.82 dB 823.94507823 MHz 823.4480000 MHz Temp 1 [T1] OSW 824.5520000 MHz</p> <p style="font-size: x-small;">Date: 1.JUL.2023 15:51:57</p>	<p style="font-size: small;">Ref 30 dBm *Att 25 dB *RBW 30 kHz Delta 1 [T1] 1.13 dB *VSW 100 kHz *SWT 15 ms 1.334192308 MHz OSW 1.110000000 MHz Marker 1 [T1] -1.28 dB 823.32926423 MHz 823.4420000 MHz Temp 1 [T1] OSW 824.5520000 MHz</p> <p style="font-size: x-small;">Date: 1.JUL.2023 15:53:42</p>

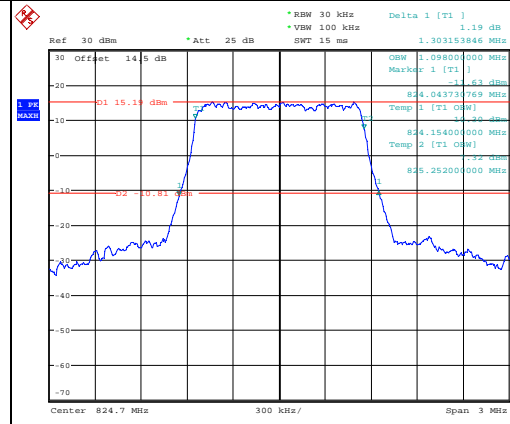
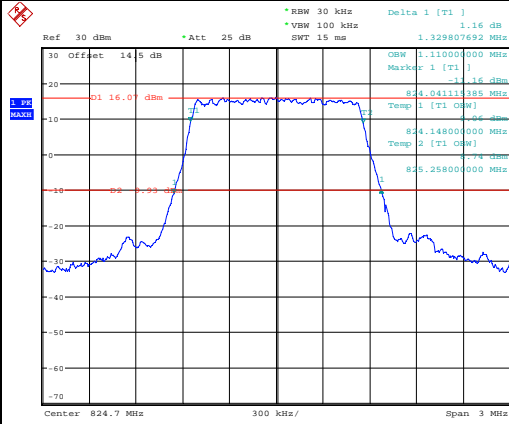
Occupied Bandwidth

Channel

1.4MHz Bandwidth QPSK

1.4MHz Bandwidth 16QAM

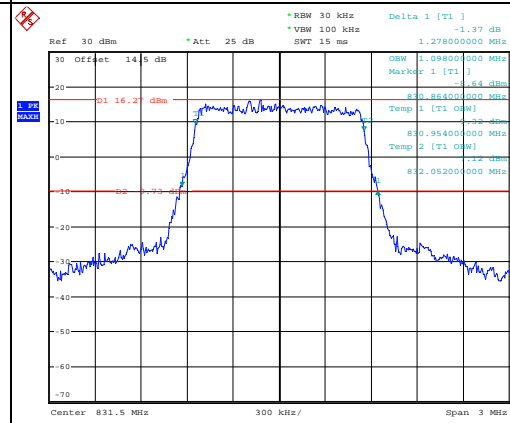
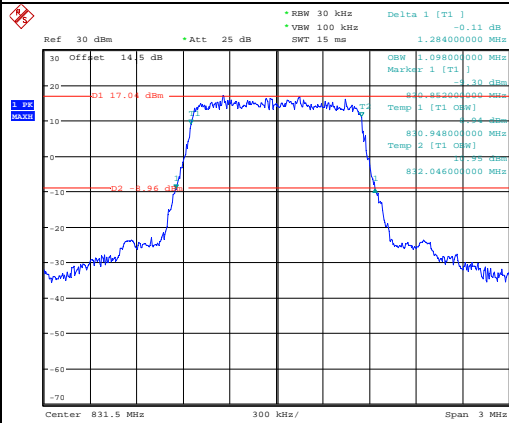
Lowest
For 22H



Date: 1.JUL.2023 15:37:13

Date: 1.JUL.2023 15:40:00

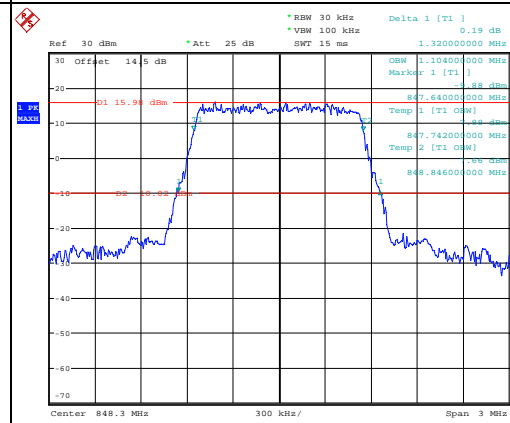
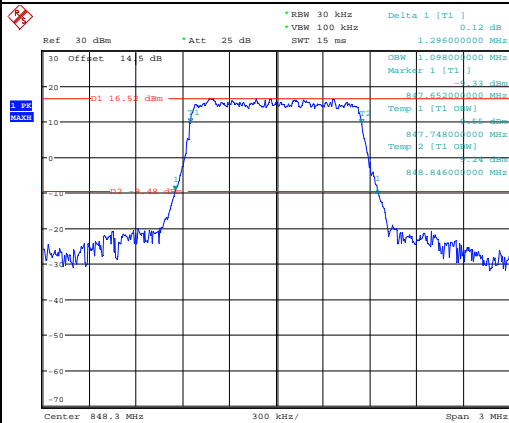
Middle
For 22H



Date: 29.JUN.2023 23:39:09

Date: 29.JUN.2023 23:39:29

Highest
For 22H



Date: 29.JUN.2023 23:39:54

Date: 29.JUN.2023 23:40:14

Occupied Bandwidth

Channel	3MHz Bandwidth QPSK	3MHz Bandwidth 16QAM
Lowest For 90S		
Highest For 90S		
Cross Channel		

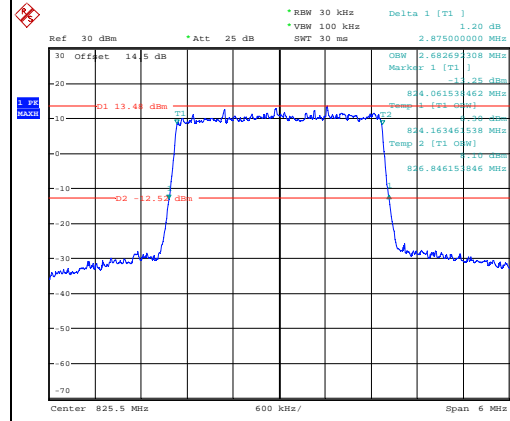
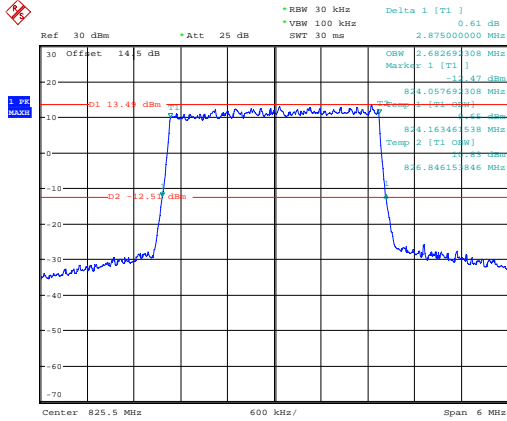
Occupied Bandwidth

Channel

3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

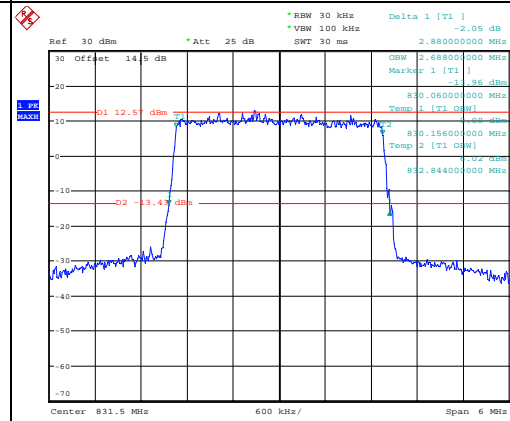
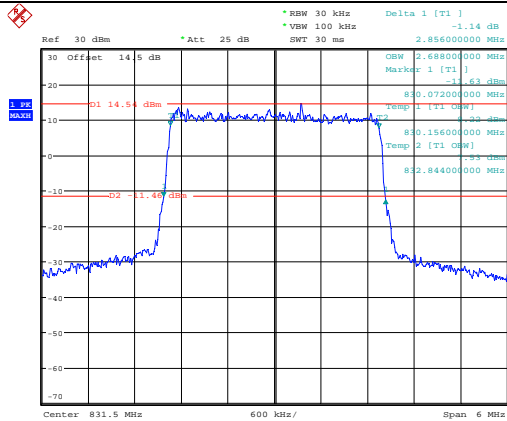
Lowest
For 22H



Date: 3.JUL.2023 11:36:50

Date: 3.JUL.2023 11:35:12

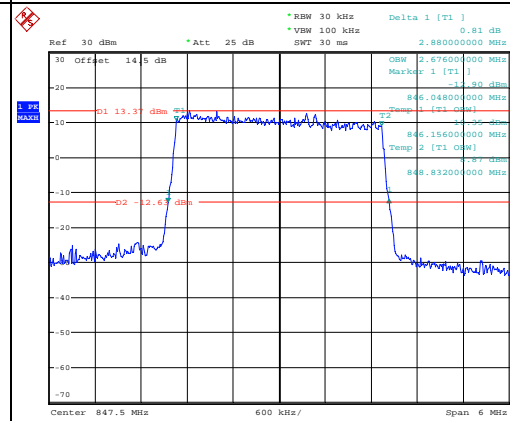
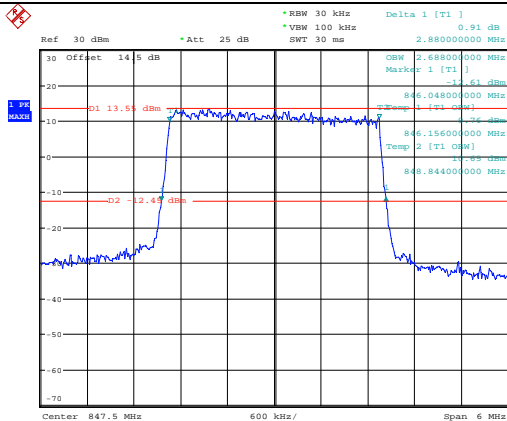
Middle
For 22H



Date: 29.JUN.2023 23:41:46

Date: 29.JUN.2023 23:42:06

Highest
For 22H



Date: 29.JUN.2023 23:42:26

Date: 29.JUN.2023 23:42:46

Occupied Bandwidth

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

Occupied Bandwidth

Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest For 22H	<p>Date: 3.JUL.2023 11:23:48</p>	<p>Date: 3.JUL.2023 11:22:04</p>
Middle For 22H	<p>Date: 29.JUN.2023 23:44:28</p>	<p>Date: 29.JUN.2023 23:44:48</p>
Highest For 22H	<p>Date: 29.JUN.2023 23:45:08</p>	<p>Date: 29.JUN.2023 23:45:28</p>

Occupied Bandwidth

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

Occupied Bandwidth

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

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Middle For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.19 dB *VSW 1 MHz SWT 2.5 ms 14.760000000 MHz OSW 13.560000000 MHz Marker 1 [T1] -10.82 dBm Temp 1 [T1 OSW] 13.560000000 MHz Temp 2 [T1 OSW] 824.720000000 MHz Temp 1 [T1 OSW] 828.280000000 MHz Center 821.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:49:17</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 3.71 dB *VSW 1 MHz SWT 2.5 ms 14.820000000 MHz OSW 13.620000000 MHz Marker 1 [T1] -10.82 dBm Temp 1 [T1 OSW] 13.620000000 MHz Temp 2 [T1 OSW] 824.720000000 MHz Temp 1 [T1 OSW] 828.340000000 MHz Center 821.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:49:37</p>
Cross Channel	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.75 dB *VSW 1 MHz SWT 2.5 ms 15.240384615 MHz OSW 13.587693108 MHz Marker 1 [T1] -10.82 dBm Temp 1 [T1 OSW] 13.587693108 MHz Temp 2 [T1 OSW] 837.26923769 MHz Temp 1 [T1 OSW] 830.82692077 MHz Center 824 MHz 3 MHz/ Span 30 MHz Date: 3.JUL.2023 10:05:14</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.43 dB *VSW 1 MHz SWT 2.5 ms 14.759615385 MHz OSW 13.509615385 MHz Marker 1 [T1] -10.82 dBm Temp 1 [T1 OSW] 13.509615385 MHz Temp 2 [T1 OSW] 837.26923769 MHz Temp 1 [T1 OSW] 830.778844154 MHz Center 824 MHz 3 MHz/ Span 30 MHz Date: 3.JUL.2023 10:07:18</p>

Occupied Bandwidth

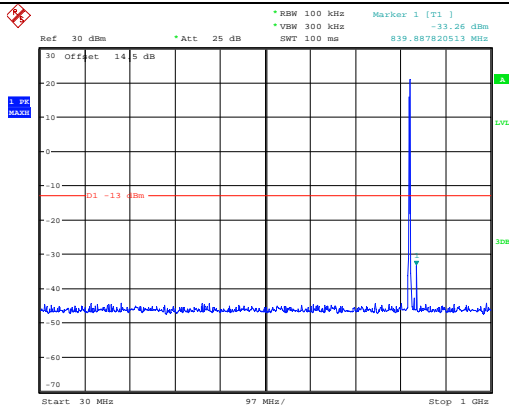
Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.75 dB *VSW 1 MHz *VSW 1 MHz 14.588000000 MHz SWT 2.5 ms Center 831.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:49:58</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 2.51 dB *VSW 1 MHz *VSW 1 MHz 14.640000000 MHz SWT 2.5 ms Center 831.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:50:18</p>
Middle For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.03 dB *VSW 1 MHz *VSW 1 MHz 14.86589744 MHz SWT 2.5 ms Center 836.5 MHz 3 MHz/ Span 30 MHz Date: 3.JUL.2023 10:44:05</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.07 dB *VSW 1 MHz *VSW 1 MHz 14.878205128 MHz SWT 2.5 ms Center 836.5 MHz 3 MHz/ Span 30 MHz Date: 3.JUL.2023 10:46:33</p>
Highest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.03 dB *VSW 1 MHz *VSW 1 MHz 14.520000000 MHz SWT 2.5 ms Center 841.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:50:39</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.82 dB *VSW 1 MHz *VSW 1 MHz 14.700000000 MHz SWT 2.5 ms Center 841.5 MHz 3 MHz/ Span 30 MHz Date: 29.JUN.2023 23:50:59</p>

Spurious Emissions at Antenna Terminal

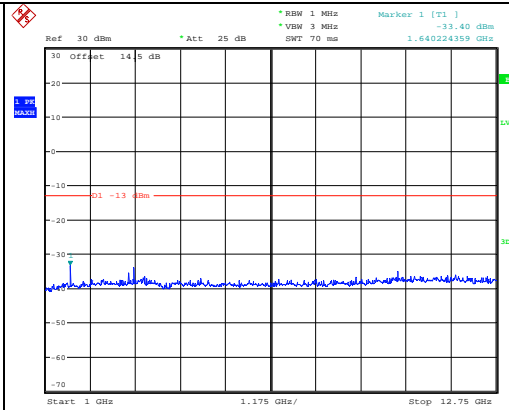
Channel

1.4MHz Bandwidth QPSK

Lowest For 90S

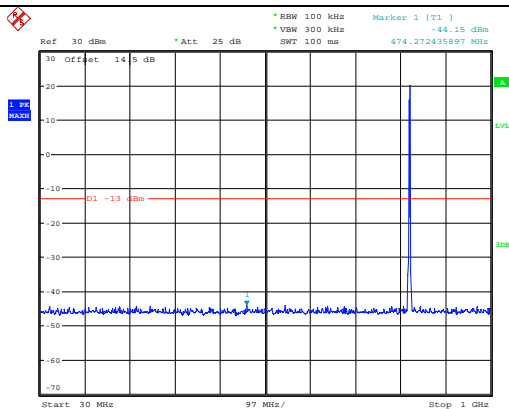


Date: 3.JUL.2023 13:28:48

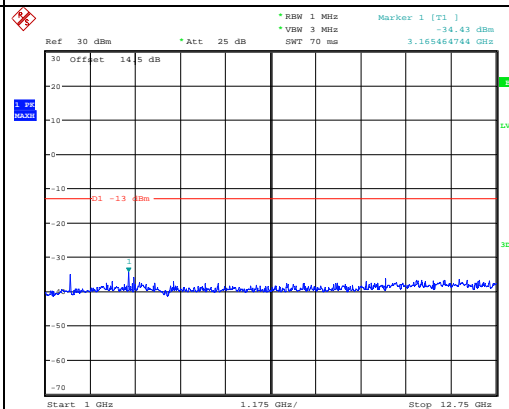


Date: 3.JUL.2023 13:31:07

Highest For 90S

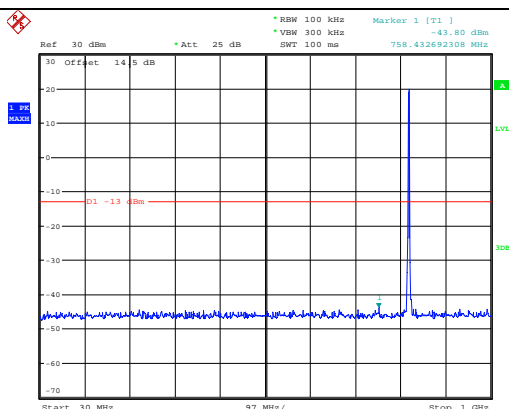


Date: 3.JUL.2023 13:33:31

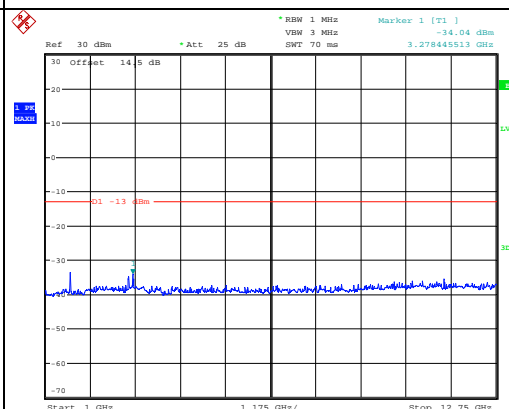


Date: 3.JUL.2023 13:32:25

Cross Channel



Date: 3.JUL.2023 13:36:00



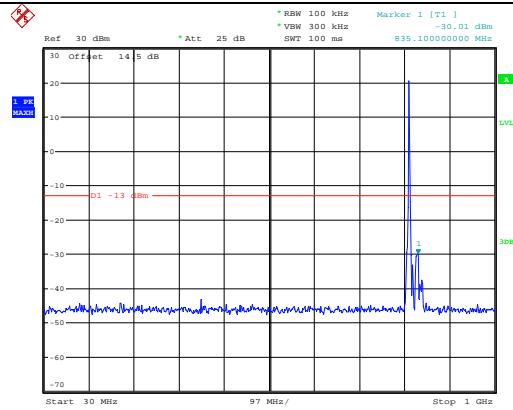
Date: 3.JUL.2023 14:04:22

Spurious Emissions at Antenna Terminal

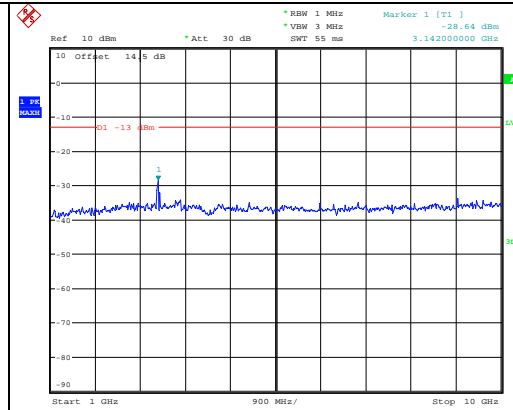
Channel

1.4MHz Bandwidth QPSK

Lowest For 22H

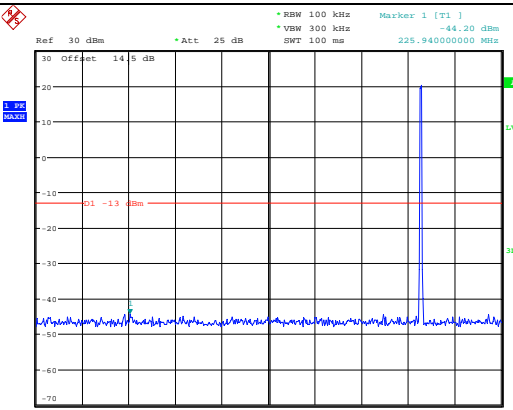


Date: 30.JUN.2023 14:33:40

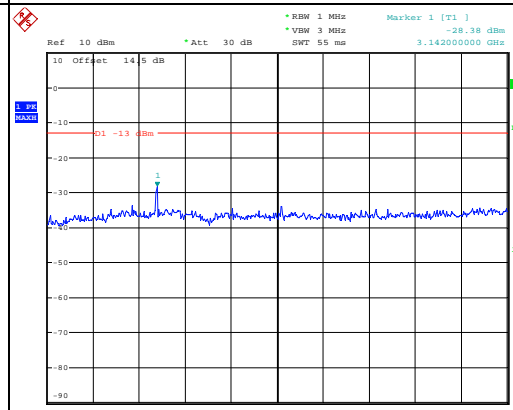


Date: 30.JUN.2023 14:33:53

Middle For 22H

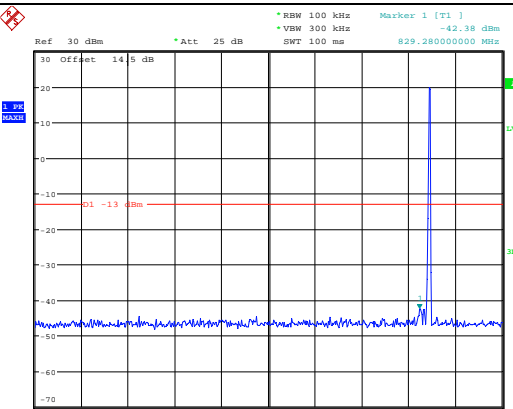


Date: 30.JUN.2023 14:34:08

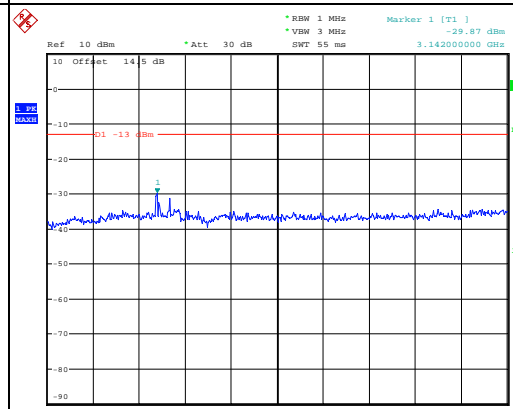


Date: 30.JUN.2023 14:34:20

Highest For 22H



Date: 30.JUN.2023 14:34:36



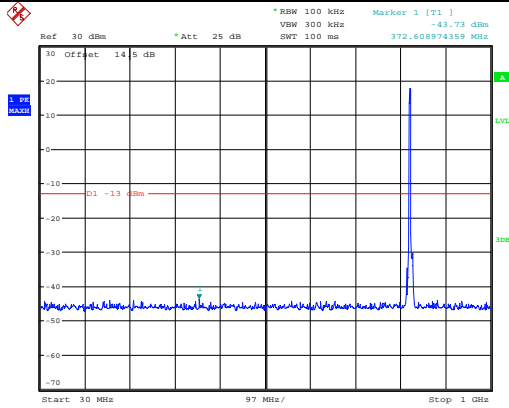
Date: 30.JUN.2023 14:34:50

Spurious Emissions at Antenna Terminal

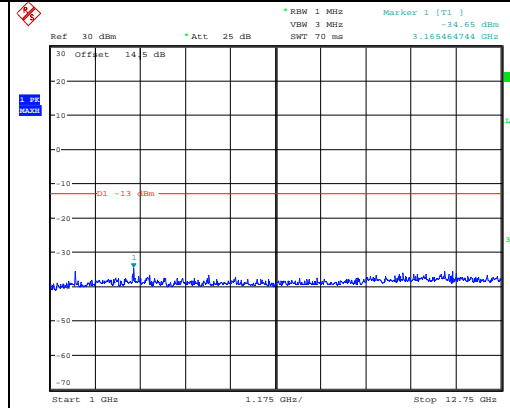
Channel

3MHz Bandwidth QPSK

Lowest For 90S

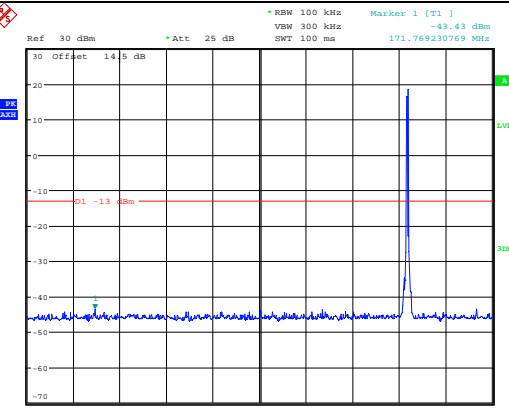


Date: 3.JUL.2023 14:29:15

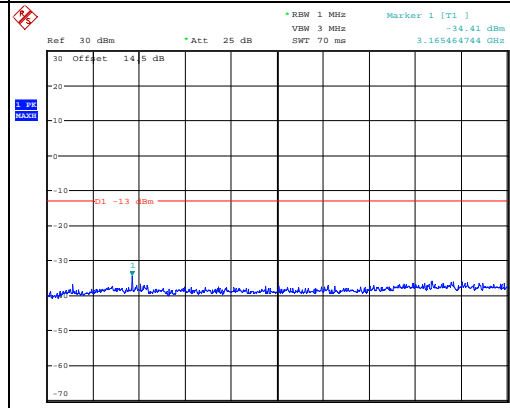


Date: 3.JUL.2023 14:29:45

Highest For 90S

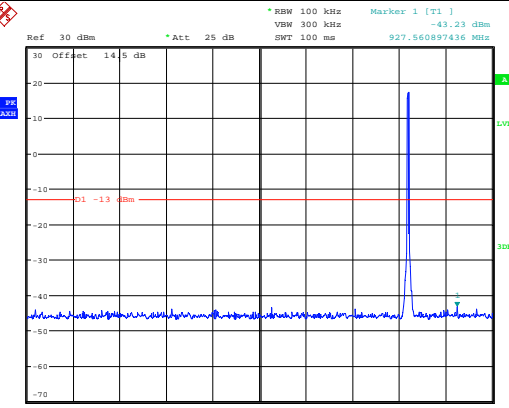


Date: 3.JUL.2023 14:27:58

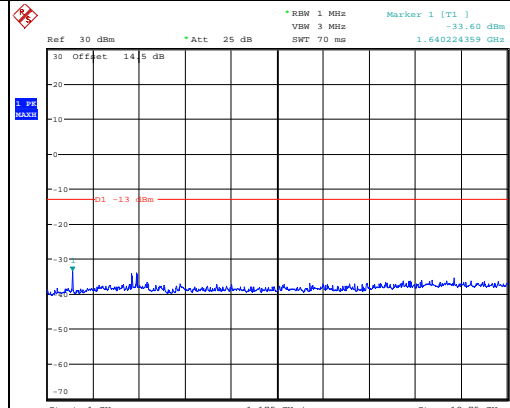


Date: 3.JUL.2023 14:26:20

Cross Channel



Date: 3.JUL.2023 14:05:59



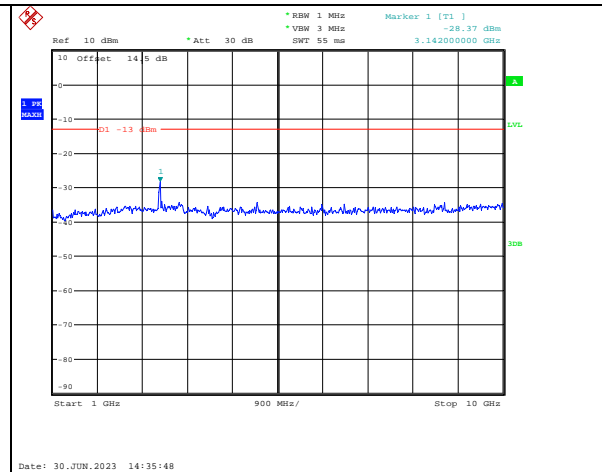
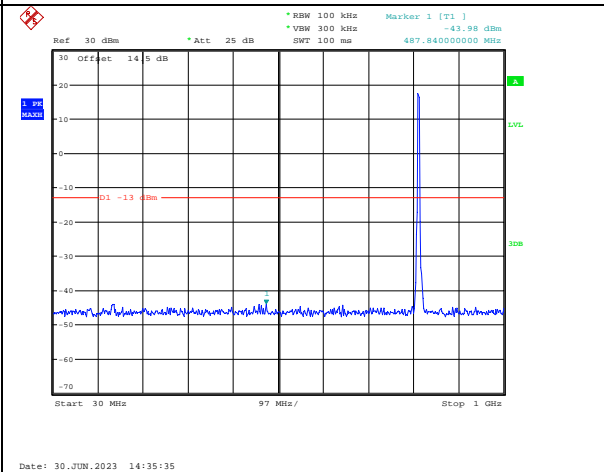
Date: 3.JUL.2023 14:04:39

Spurious Emissions at Antenna Terminal

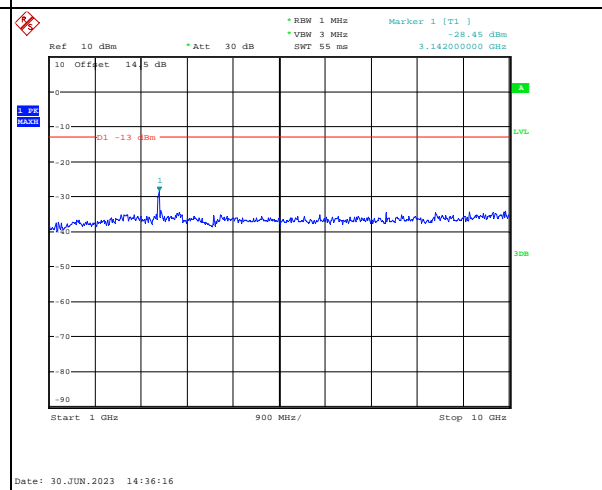
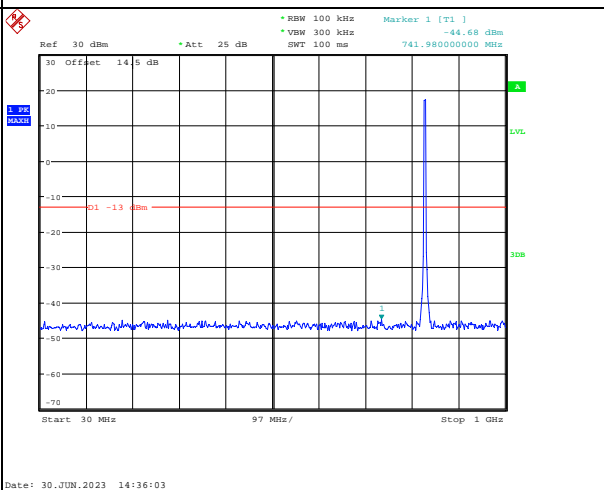
Channel

3MHz Bandwidth QPSK

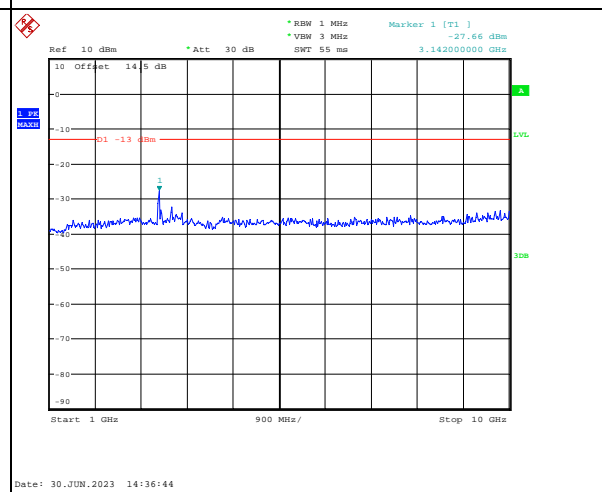
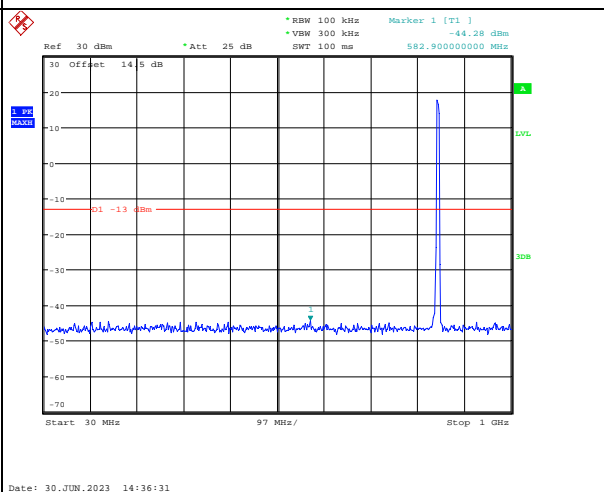
Lowest For 22H



Middle For 22H



Highest For 22H

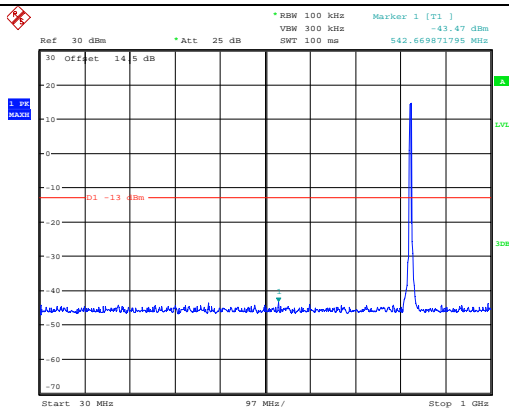


Spurious Emissions at Antenna Terminal

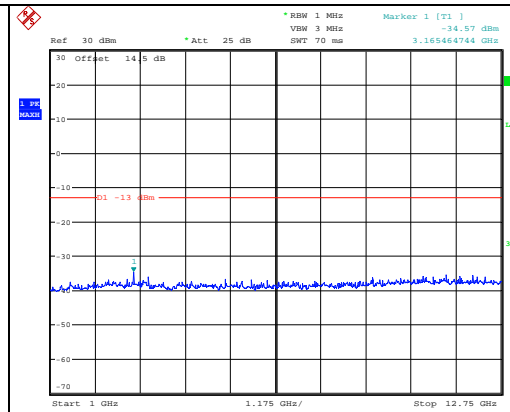
Channel

5MHz Bandwidth QPSK

Lowest For 90S

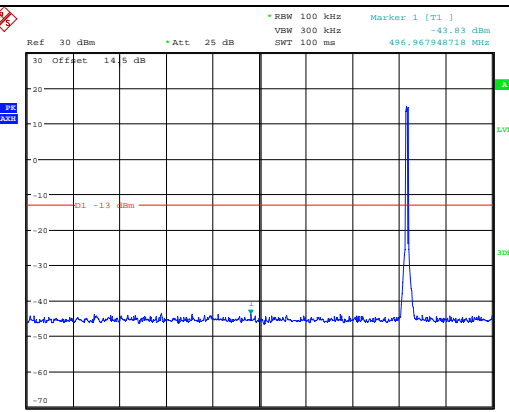


Date: 3.JUL.2023 14:21:40

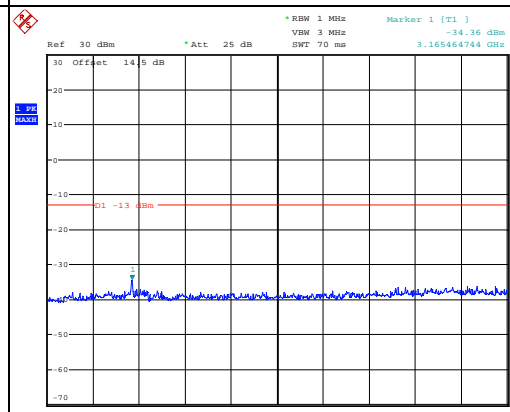


Date: 3.JUL.2023 14:18:33

Highest For 90S

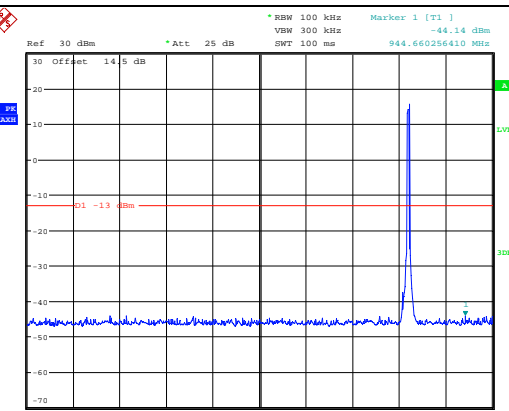


Date: 3.JUL.2023 14:24:56

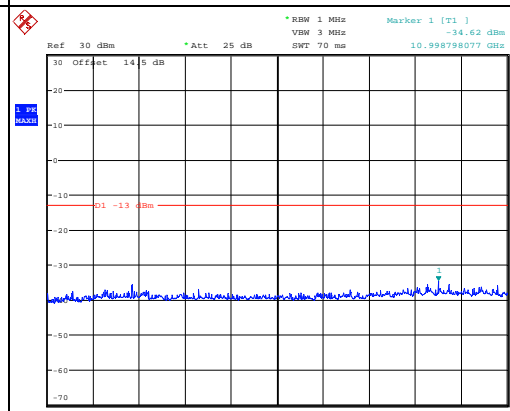


Date: 3.JUL.2023 14:25:21

Cross Channel



Date: 3.JUL.2023 14:07:07



Date: 3.JUL.2023 14:07:24

Spurious Emissions at Antenna Terminal

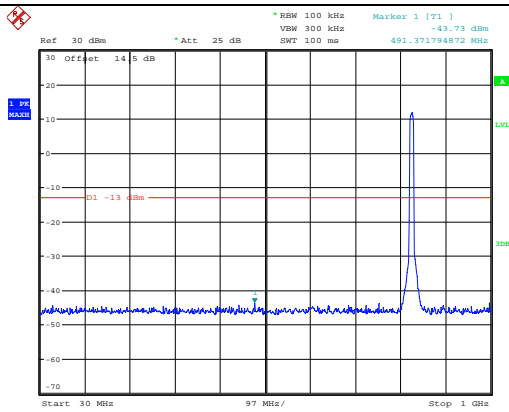
Channel	5MHz Bandwidth QPSK	
Lowest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -44.17 dBm *VSW 300 kHz *SWT 100 ms 329.76000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 14:47:40</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -28.96 dBm *VSW 3 MHz *SWT 55 ms 3.124000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 30.JUN.2023 14:47:53</p>
Middle For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -44.28 dBm *VSW 300 kHz *SWT 100 ms 685.72000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 14:48:12</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -29.76 dBm *VSW 3 MHz *SWT 55 ms 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 30.JUN.2023 14:48:24</p>
Highest For 22H	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -43.90 dBm *VSW 300 kHz *SWT 100 ms 227.88000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 14:48:39</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz Marker 1 [T1] -29.19 dBm *VSW 3 MHz *SWT 55 ms 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 30.JUN.2023 14:48:52</p>

Spurious Emissions at Antenna Terminal

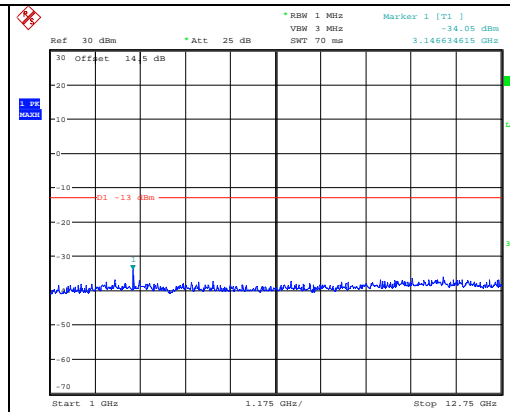
Channel

10MHz Bandwidth QPSK

Lowest For 90S

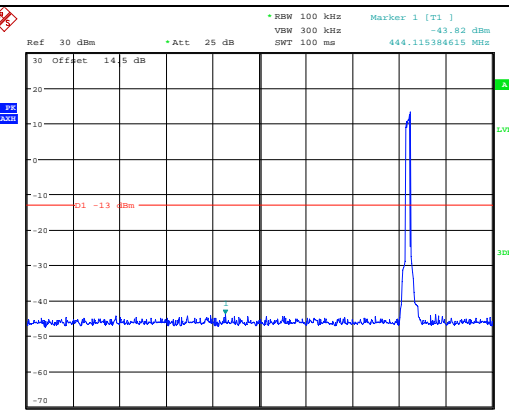


Date: 3.JUL.2023 14:17:11

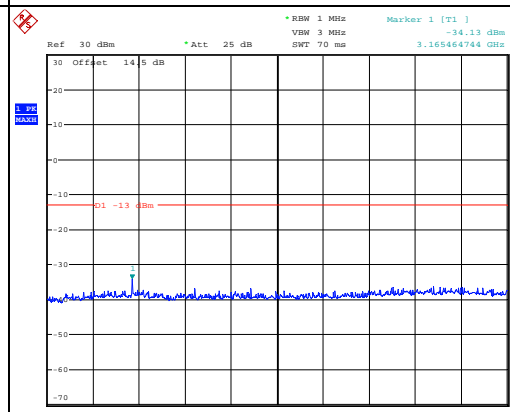


Date: 3.JUL.2023 14:17:33

Cross Channel



Date: 3.JUL.2023 14:08:47



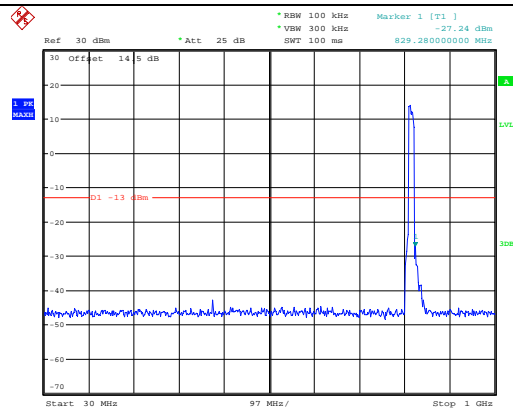
Date: 3.JUL.2023 14:08:00

Spurious Emissions at Antenna Terminal

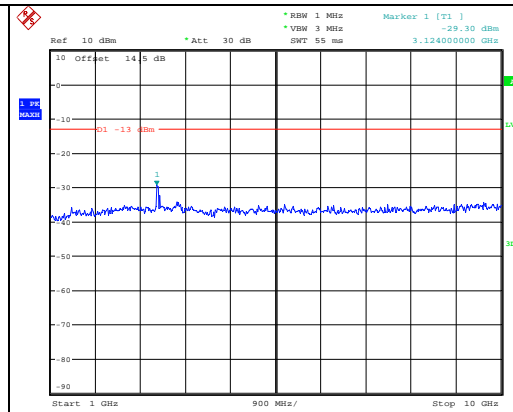
Channel

10MHz Bandwidth QPSK

Lowest For 22H

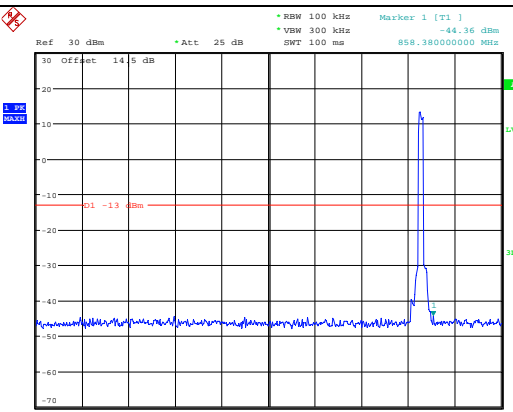


Date: 30.JUN.2023 14:57:02

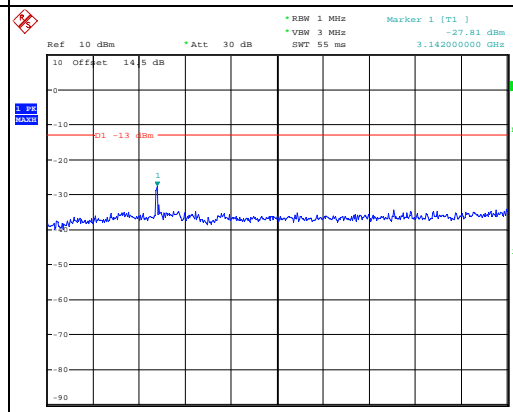


Date: 30.JUN.2023 14:57:16

Middle For 22H

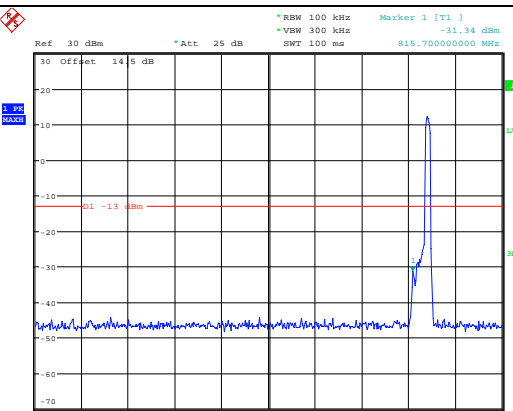


Date: 30.JUN.2023 14:57:34

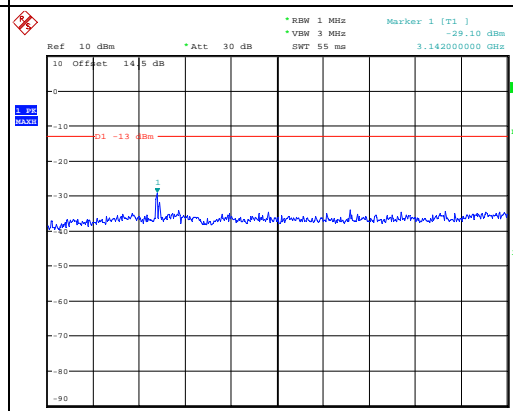


Date: 30.JUN.2023 14:57:47

Highest For 22H



Date: 30.JUN.2023 14:58:02



Date: 30.JUN.2023 14:58:15

Spurious Emissions at Antenna Terminal

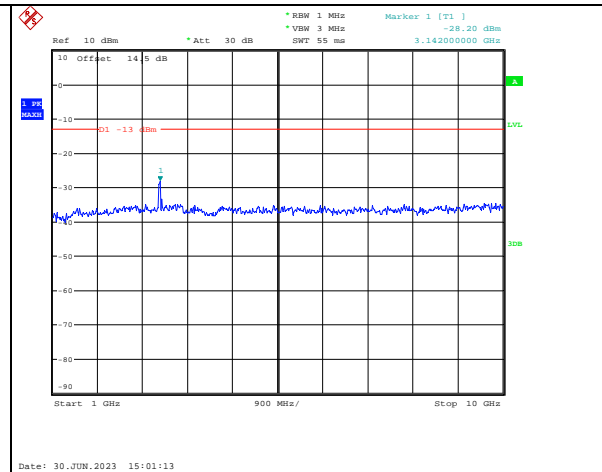
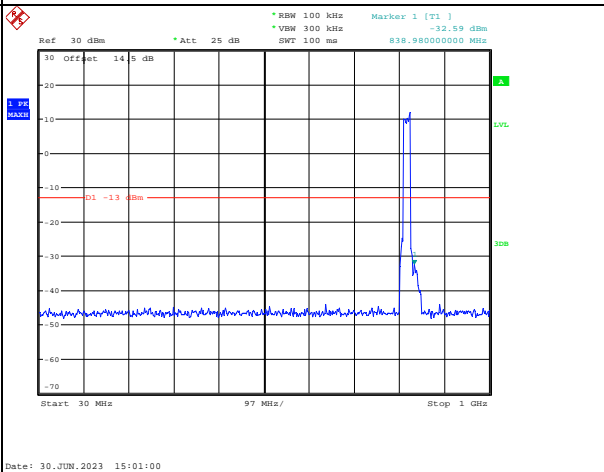
Channel	15MHz Bandwidth QPSK	
Lowest For 90S	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -43.63 dBm VBW 300 kHz SWT 100 ms 627.233974359 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 3.JUL.2023 14:13:06</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -33.99 dBm VBW 3 MHz SWT 70 ms 3.165484744 GHz</p> <p>Start 1 GHz 1.175 GHz/ Stop 12.75 GHz</p> <p>Date: 3.JUL.2023 14:11:06</p>
	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Marker 1 [T1] -43.89 dBm VBW 300 kHz SWT 100 ms 477.381410256 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 3.JUL.2023 14:09:43</p>	<p>Ref 30 dBm *Att 25 dB *RBW 1 MHz Marker 1 [T1] -35.63 dBm VBW 3 MHz SWT 70 ms 11.620193208 GHz</p> <p>Start 1 GHz 1.175 GHz/ Stop 12.75 GHz</p> <p>Date: 3.JUL.2023 14:09:59</p>

Spurious Emissions at Antenna Terminal

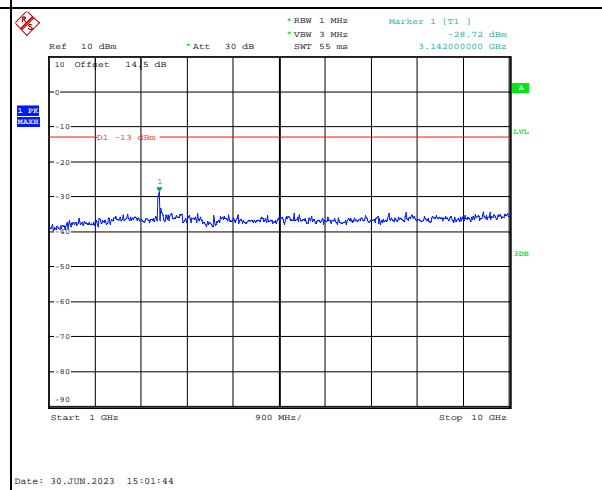
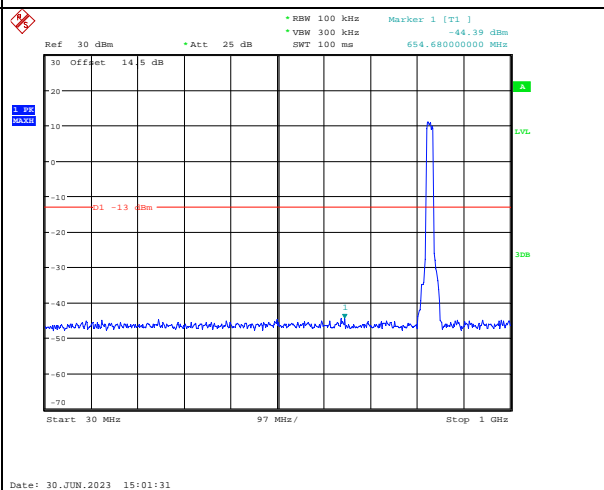
Channel

15MHz Bandwidth QPSK

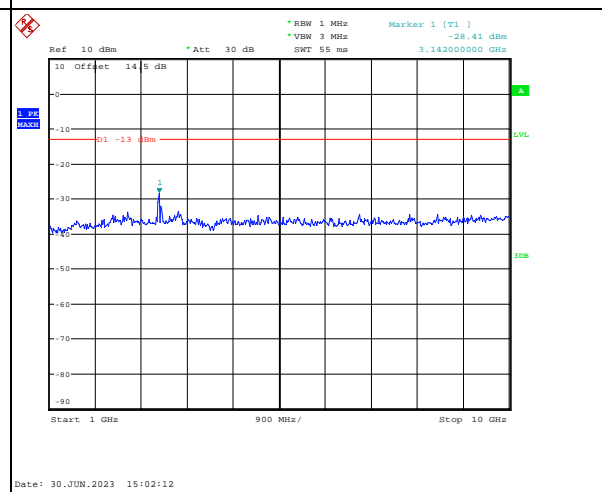
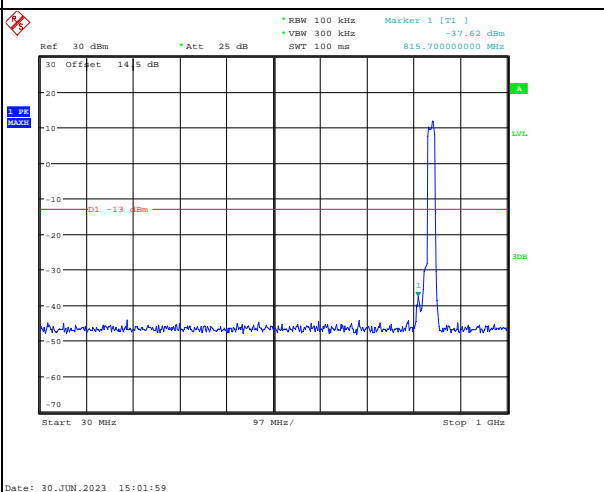
Lowest
For 22H



Middle
For 22H



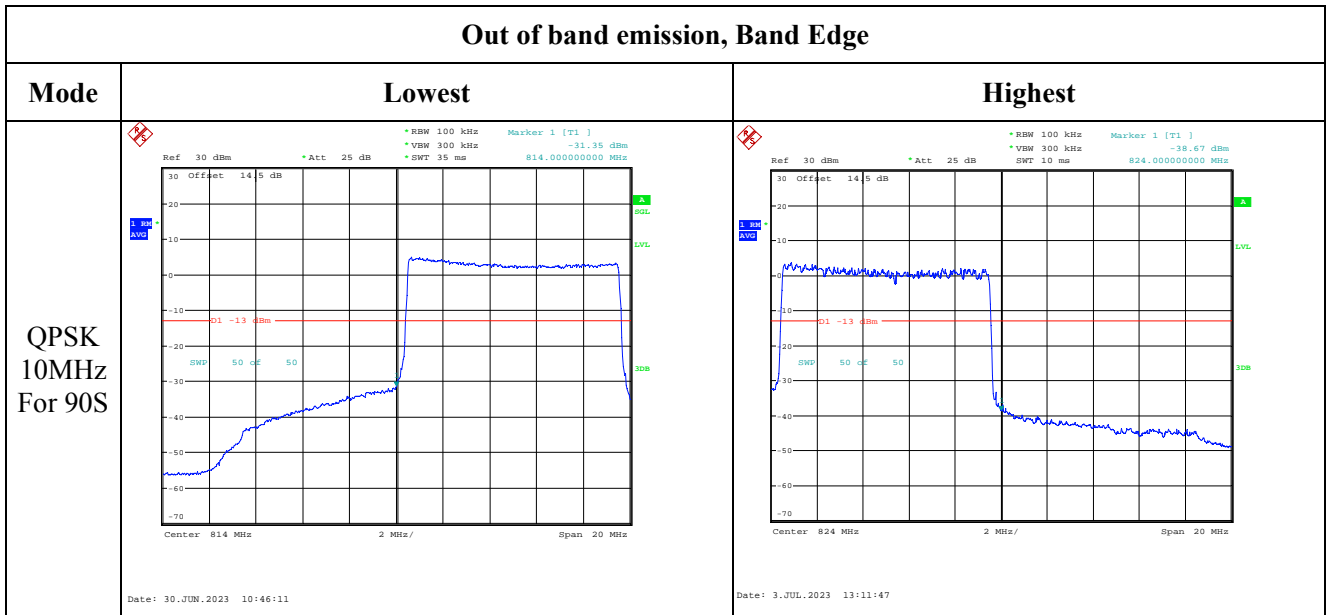
Highest
For 22H



Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz For 90S</p>	<p>Date: 30.JUN.2023 10:31:02</p>	<p>Date: 3.JUL.2023 11:41:20</p>
<p>QPSK 3MHz For 90S</p>	<p>Date: 30.JUN.2023 10:32:06</p>	<p>Date: 3.JUL.2023 11:45:50</p>
<p>QPSK 5MHz For 90S</p>	<p>Date: 30.JUN.2023 10:42:32</p>	<p>Date: 3.JUL.2023 11:50:48</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 1.4MHz For 22H</p>		
<p>QPSK 3MHz For 22H</p>		
<p>QPSK 5MHz For 22H</p>		

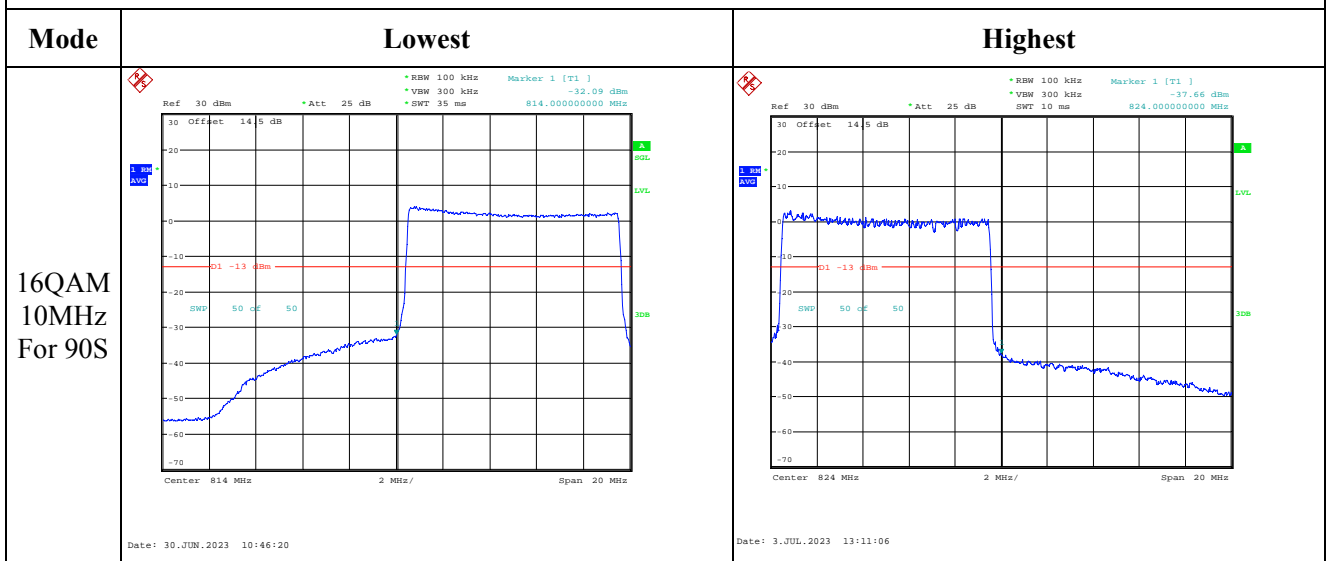
Out of band emission, Band Edge

Mode	Lowest	Highest
<p>QPSK 10MHz For 22H</p>	<p>Date: 3.JUL.2023 13:12:29</p>	<p>Date: 30.JUN.2023 10:46:31</p>
<p>QPSK 15MHz For 22H</p>	<p>Date: 3.JUL.2023 13:21:40</p>	<p>Date: 30.JUN.2023 10:54:35</p>
<p>QPSK 15MHz Across 90S and 22H</p>	<p>Date: 30.JUN.2023 10:54:16</p>	

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz For 90S	<p>Date: 30.JUN.2023 10:31:10</p>	<p>Date: 3.JUL.2023 11:42:02</p>
16QAM 3MHz For 90S	<p>Date: 30.JUN.2023 10:32:14</p>	<p>Date: 3.JUL.2023 11:46:23</p>
16QAM 5MHz For 90S	<p>Date: 30.JUN.2023 10:42:40</p>	<p>Date: 3.JUL.2023 11:50:18</p>

Out of band emission, Band Edge



Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz For 22H	<p>Date: 30.JUN.2023 10:31:10</p>	<p>Date: 30.JUN.2023 10:31:26</p>
16QAM 3MHz For 22H	<p>Date: 30.JUN.2023 10:32:14</p>	<p>Date: 30.JUN.2023 10:32:31</p>
16QAM 5MHz For 22H	<p>Date: 30.JUN.2023 10:42:40</p>	<p>Date: 30.JUN.2023 10:42:58</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz For 22H		
16QAM 15MHz For 22H		
16QAM 15MHz Across 90S and 22H		

4.13 Antenna Port Test Data and Results for LTE Band 41

Serial Number:	27A0-1	Test Date:	2023/6/27-2023/7/3
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-26.3	Relative Humidity: (%)	41-59	ATM Pressure: (kPa)	99.8-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/9/29	2023/9/28
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2022/7/15	2023/7/14

* 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	21.32	22.23	20.31	22.87	33
	RB1#13	21.45	22.39	20.41		
	RB1#24	21.36	22.26	20.26		
	RB15#0	21.37	22.22	20.36		
	RB15#10	21.44	22.23	20.33		
	RB25#0	21.37	22.19	20.34		
5MHz 16QAM	RB1#0	21.27	22.11	20.46	22.71	33
	RB1#13	21.41	22.23	20.56		
	RB1#24	21.32	22.09	20.4		
	RB15#0	21.24	22.08	20.31		
	RB15#10	21.27	22.08	20.31		
	RB25#0	21.34	22.1	20.29		
10MHz QPSK	RB1#0	21.38	22.66	21.08	23.45	33
	RB1#25	21.7	22.97	21.36		
	RB1#49	21.45	22.66	21.03		
	RB25#0	21.41	22.64	21.12		
	RB25#25	21.51	22.68	21.04		
	RB50#0	21.39	22.59	21.05		
10MHz 16QAM	RB1#0	21.5	22.48	21.11	23.24	33
	RB1#25	21.82	22.76	21.34		
	RB1#49	21.59	22.48	21.05		
	RB25#0	21.33	22.52	21.1		
	RB25#25	21.43	22.57	21.03		
	RB50#0	21.34	22.48	21.03		
15MHz QPSK	RB1#0	21.27	22.54	21.03	23.3	33
	RB1#38	21.45	22.69	21.06		
	RB1#74	21.35	22.52	20.86		
	RB36#0	21.48	22.71	21.12		
	RB36#39	21.59	22.82	21.01		
	RB75#0	21.55	22.77	21.09		
15MHz 16QAM	RB1#0	21.37	22.36	21.13	23.1	33
	RB1#38	21.55	22.48	21.19		
	RB1#74	21.48	22.31	20.99		
	RB36#0	21.38	22.52	21.12		
	RB36#39	21.45	22.62	21		
	RB75#0	21.44	22.6	21.03		
20MHz QPSK	RB1#0	21.21	21.8	20.42	22.84	33
	RB1#50	21.79	22.36	20.87		
	RB1#99	21.35	21.81	20.26		

	RB50#0	21.29	21.86	20.65		
	RB50#50	21.44	21.99	20.51		
	RB100#0	21.36	21.89	20.59		
20MHz 16QAM	RB1#0	21.33	21.72	20.38	22.67	33
	RB1#50	21.91	22.19	20.83		
	RB1#99	21.49	21.66	20.24		
	RB50#0	21.25	21.73	20.66		
	RB50#50	21.42	21.84	20.55		
	RB100#0	21.33	21.78	20.6		

Note: EIRP=Conducted Power(dBm) - Lc(dB) + Gr(dBi)

Result: **Pass**

Peak-to-average Ratio(PAR)

Test Bandwidth & Modulation	Resource Block & RB offset	Peak-to-average Ratio(dB)			Limit (dB)
		Lowest Channel	Middle Channel	Highest Channel	
20MHz QPSK	RB1#0	8.75	9.1	8.93	13
	RB100#0	8.2	9.36	9.19	13
20MHz 16QAM	RB1#0	9.59	10	9.77	13
	RB100#0	9.83	10.14	10.03	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	4.94	4.90	4.90
5MHz 16QAM	4.52	4.52	4.52	4.90	5.00	4.86
10MHz QPSK	8.96	8.96	8.96	9.56	9.52	9.64
10MHz 16QAM	8.96	8.96	8.96	9.56	9.56	9.52
15MHz QPSK	13.5	13.560	13.5	14.8	14.700	14.5
15MHz 16QAM	13.560	13.560	13.5	14.700	14.760	14.7
20MHz QPSK	17.92	18	18	19.28	19	19
20MHz 16QAM	17.92	18	17.92	19.20	19	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	3.85	2497.097	2496.00	2689.008	2690
	-20	3.85	2497.086	2496.00	2689.038	2690
	-10	3.85	2497.083	2496.00	2689.016	2690
	0	3.85	2497.006	2496.00	2689.096	2690
	10	3.85	2497.060	2496.00	2689.071	2690
	20	3.85	2497.040	2496.00	2689.040	2690
	30	3.85	2497.061	2496.00	2689.049	2690
	40	3.85	2497.059	2496.00	2689.064	2690
	50	3.85	2497.079	2496.00	2689.008	2690
Frequency Stability vs. Voltage	20	3.6	2497.064	2496.00	2689.016	2690
	20	4.35	2497.041	2496.00	2689.072	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	3.85	2497.017	2496.00	2688.953	2690
	-20	3.85	2497.000	2496.00	2688.942	2690
	-10	3.85	2497.014	2496.00	2688.974	2690
	0	3.85	2497.029	2496.00	2688.914	2690
	10	3.85	2497.077	2496.00	2688.902	2690
	20	3.85	2497.040	2496.00	2688.960	2690
	30	3.85	2497.023	2496.00	2688.979	2690
	40	3.85	2497.056	2496.00	2688.970	2690
	50	3.85	2497.099	2496.00	2688.908	2690
Frequency Stability vs. Voltage	20	3.6	2497.068	2496.00	2688.990	2690
	20	4.35	2497.025	2496.00	2688.993	2690
					Result:	Pass

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

Occupied Bandwidth		
Channel	5MHz Bandwidth QPSK	5MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.45 dB *VBW 300 kHz SWT 5 ms 4.940000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.496240000 GHz 2.496240000 GHz 2.500760000 GHz 2.500760000 GHz</p> <p>Center 2.4985 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:51:48</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -1.71 dB *VBW 300 kHz SWT 5 ms 4.900000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.496040000 GHz 2.496040000 GHz 2.496240000 GHz 2.496240000 GHz 2.500760000 GHz 2.500760000 GHz</p> <p>Center 2.4985 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:52:11</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.55 dB *VBW 300 kHz SWT 5 ms 4.900000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.590540000 GHz 2.590540000 GHz 2.590740000 GHz 2.590740000 GHz 2.595260000 GHz 2.595260000 GHz</p> <p>Center 2.593 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:52:42</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -2.36 dB *VBW 300 kHz SWT 5 ms 5.000000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.590500000 GHz 2.590500000 GHz 2.590740000 GHz 2.590740000 GHz 2.595260000 GHz 2.595260000 GHz</p> <p>Center 2.593 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:53:08</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 1.22 dB *VBW 300 kHz SWT 5 ms 4.900000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.685060000 GHz 2.685060000 GHz 2.685240000 GHz 2.685240000 GHz 2.689760000 GHz 2.689760000 GHz</p> <p>Center 2.6875 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:53:38</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 4.06 dB *VBW 300 kHz SWT 5 ms 4.860000000 MHz OSW 4.920000000 MHz Marker 1 [T1] -13 dBm Temp 1 [T1 OSW] Temp 2 [T1 OSW] 2.685040000 GHz 2.685040000 GHz 2.685240000 GHz 2.685240000 GHz 2.689760000 GHz 2.689760000 GHz</p> <p>Center 2.6875 GHz 1 MHz/ Span 10 MHz Date: 29.JUN.2023 23:54:02</p>

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] 0.91 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.560000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 15.34 dBm 2.496240000 GHz 2.496240000 GHz 2.496520000 GHz 2.496520000 GHz 2.505480000 GHz 2.505480000 GHz Center 2.501 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:54:55</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -1.02 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.560000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 15.8 dBm 2.496240000 GHz 2.496240000 GHz 2.496520000 GHz 2.496520000 GHz 2.505480000 GHz 2.505480000 GHz Center 2.501 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:55:19</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -2.99 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.520000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 16.94 dBm 2.588240000 GHz 2.588240000 GHz 2.588520000 GHz 2.588520000 GHz 2.597480000 GHz 2.597480000 GHz Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:55:47</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -3.36 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.560000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 16.81 dBm 2.588240000 GHz 2.588240000 GHz 2.588520000 GHz 2.588520000 GHz 2.597480000 GHz 2.597480000 GHz Center 2.593 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:56:13</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -1.73 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.640000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 15.7 dBm 2.680240000 GHz 2.680240000 GHz 2.680520000 GHz 2.680520000 GHz 2.689480000 GHz 2.689480000 GHz Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:56:33</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] -0.81 dB *VSW 300 kHz *VSW 300 kHz *VSW 300 kHz *SWT 10 ms *SWT 10 ms *SWT 10 ms 9.520000000 MHz 30 Offset 14.5 dB Marker 1 [T1] 16.14 dBm 2.680240000 GHz 2.680240000 GHz 2.680520000 GHz 2.680520000 GHz 2.689480000 GHz 2.689480000 GHz Center 2.685 GHz 2 MHz/ Span 20 MHz Date: 29.JUN.2023 23:56:53</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Date: 29.JUN.2023 23:57:56</p>	<p>Date: 29.JUN.2023 23:58:30</p>
Middle	<p>Date: 29.JUN.2023 23:58:57</p>	<p>Date: 29.JUN.2023 23:59:27</p>
Highest	<p>Date: 29.JUN.2023 23:59:45</p>	<p>Date: 30.JUN.2023 00:00:15</p>

Occupied Bandwidth

Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz 0.17 dB SWT 2.5 ms 19.28000000 MHz Marker 1 [T1] -17.8 dBm Temp 1 [T1 OSW] 2.49704000 GHz Temp 2 [T1 OSW] 2.51496000 GHz Center 2.506 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:01:12</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -2.66 dB SWT 2.5 ms 19.20000000 MHz Marker 1 [T1] -17.8 dBm Temp 1 [T1 OSW] 2.49704000 GHz Temp 2 [T1 OSW] 2.51496000 GHz Center 2.506 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:01:35</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -2.84 dB SWT 2.5 ms 19.28000000 MHz Marker 1 [T1] -20.1 dBm Temp 1 [T1 OSW] 2.58340000 GHz Temp 2 [T1 OSW] 2.60260000 GHz Center 2.593 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:02:02</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -2.41 dB SWT 2.5 ms 19.28000000 MHz Marker 1 [T1] -19.71 dBm Temp 1 [T1 OSW] 2.58340000 GHz Temp 2 [T1 OSW] 2.60260000 GHz Center 2.593 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:02:32</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -1.34 dB SWT 2.5 ms 19.12000000 MHz Marker 1 [T1] -18.1 dBm Temp 1 [T1 OSW] 2.67104000 GHz Temp 2 [T1 OSW] 2.68896000 GHz Center 2.68 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:02:50</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] *VMW 1 MHz -0.56 dB SWT 2.5 ms 19.28000000 MHz Marker 1 [T1] -18.9 dBm Temp 1 [T1 OSW] 2.67104000 GHz Temp 2 [T1 OSW] 2.68896000 GHz Center 2.68 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:03:23</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -45.59 dBm VSW 300 kHz SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 30.JUN.2023 15:02:54</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.18 dBm VSW 3 MHz SWT 150 ms Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 30.JUN.2023 15:03:07</p>
Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -42.29 dBm VSW 300 kHz SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 30.JUN.2023 15:03:25</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.38 dBm VSW 3 MHz SWT 150 ms Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 30.JUN.2023 15:03:38</p>
Highest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -38.94 dBm VSW 300 kHz SWT 100 ms Start 30 MHz 97 MHz/ Stop 1 GHz Date: 30.JUN.2023 15:03:53</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.80 dBm VSW 3 MHz SWT 150 ms Start 1 GHz 2.55 GHz/ Stop 26.5 GHz Date: 30.JUN.2023 15:04:06</p>

Spurious Emissions at Antenna Terminal

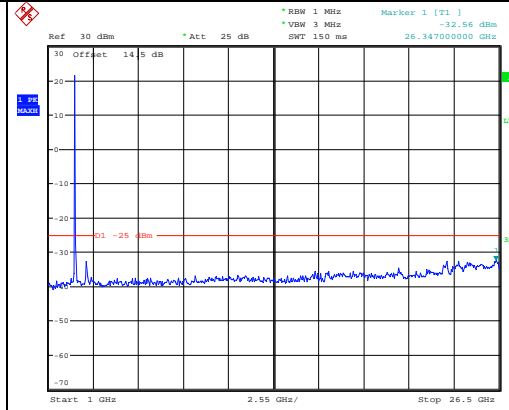
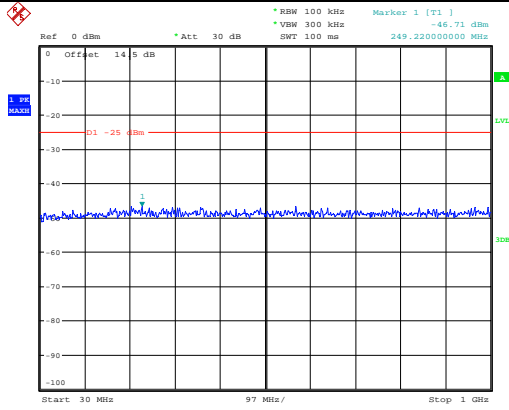
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.68 dBm VSW 300 kHz SWT 100 ms 724.528000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:11:33</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.38 dBm VSW 3 MHz SWT 150 ms 24.817000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:11:46</p>
Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -43.32 dBm VSW 300 kHz SWT 100 ms 278.320000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:12:01</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.91 dBm VSW 3 MHz SWT 150 ms 24.205000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:12:13</p>
Highest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -41.67 dBm VSW 300 kHz SWT 100 ms 367.560000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:12:29</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.58 dBm VSW 3 MHz SWT 150 ms 26.245000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:12:41</p>

Spurious Emissions at Antenna Terminal

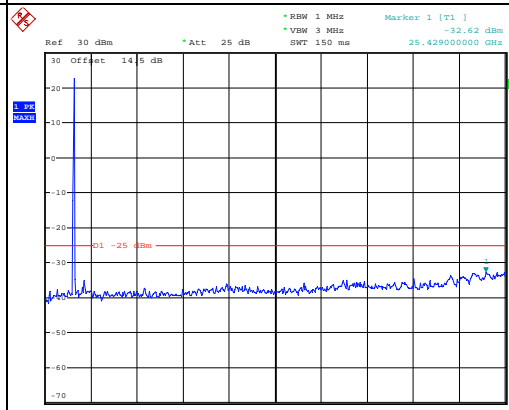
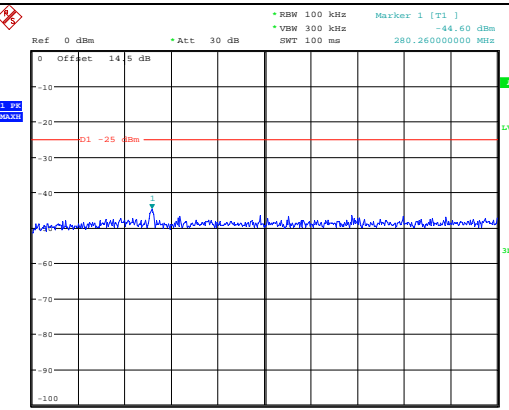
Channel

15MHz Bandwidth QPSK

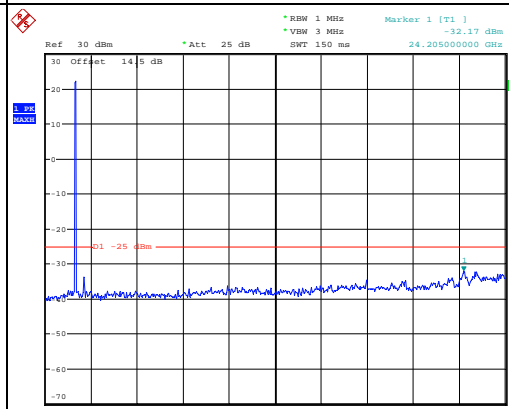
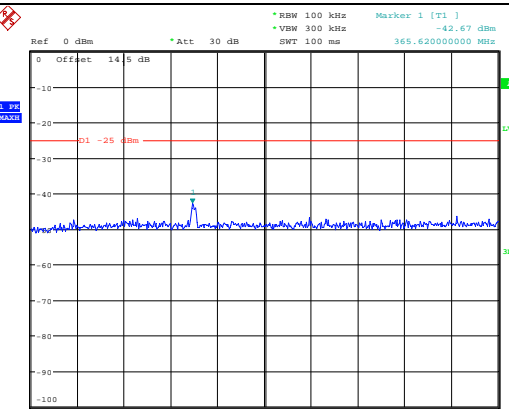
Lowest



Middle



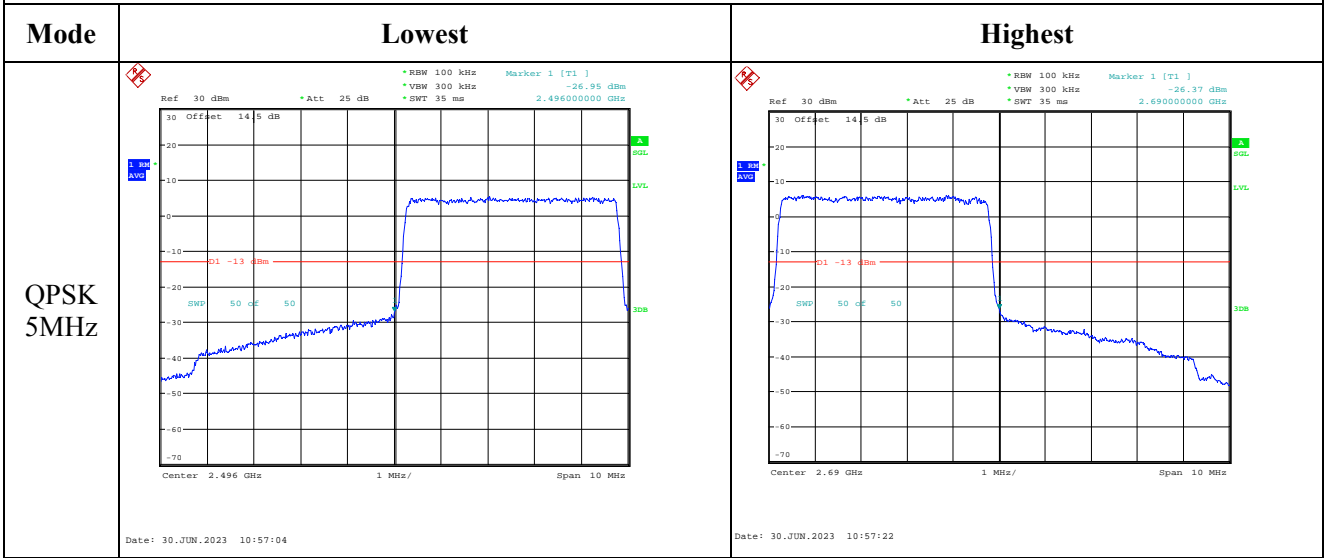
Highest



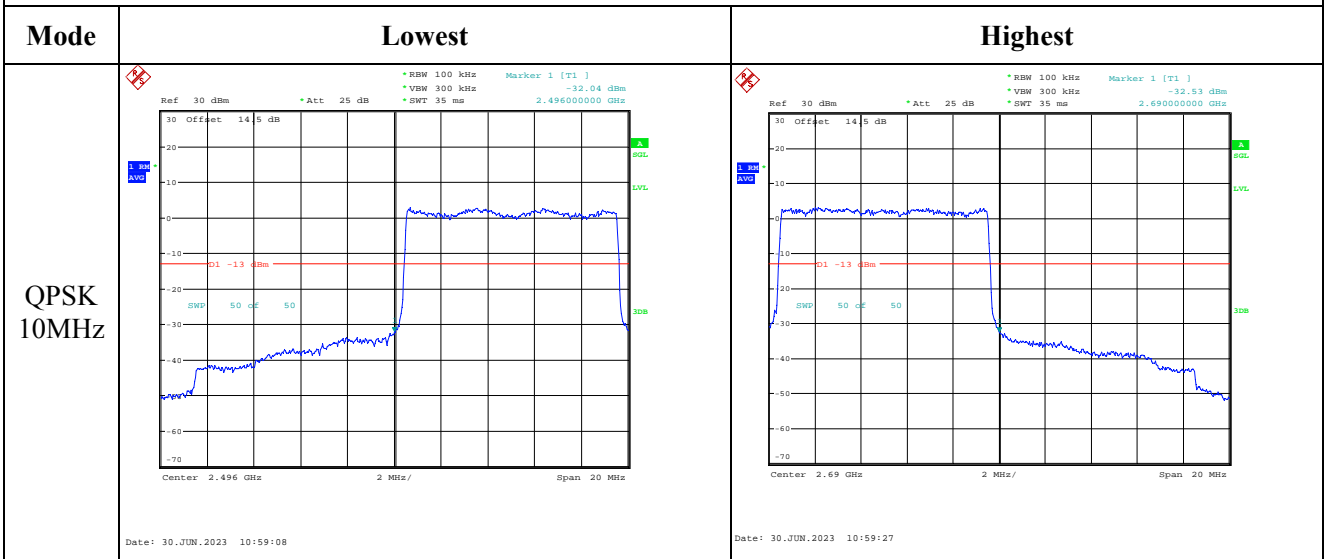
Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.49 dBm VSW 300 kHz SWT 100 ms 953.440000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:16:01</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.83 dBm VSW 3 MHz SWT 150 ms 25.429000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:16:14</p>
Middle	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -43.24 dBm VSW 300 kHz SWT 100 ms 278.320000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:16:29</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.28 dBm VSW 3 MHz SWT 150 ms 24.919000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:16:42</p>
Highest	<p>Ref 0 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -43.57 dBm VSW 300 kHz SWT 100 ms 367.560000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:16:57</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.75 dBm VSW 3 MHz SWT 150 ms 25.480000000 GHz</p> <p>Start 1 GHz 2.55 GHz/ Stop 26.5 GHz</p> <p>Date: 30.JUN.2023 15:17:09</p>

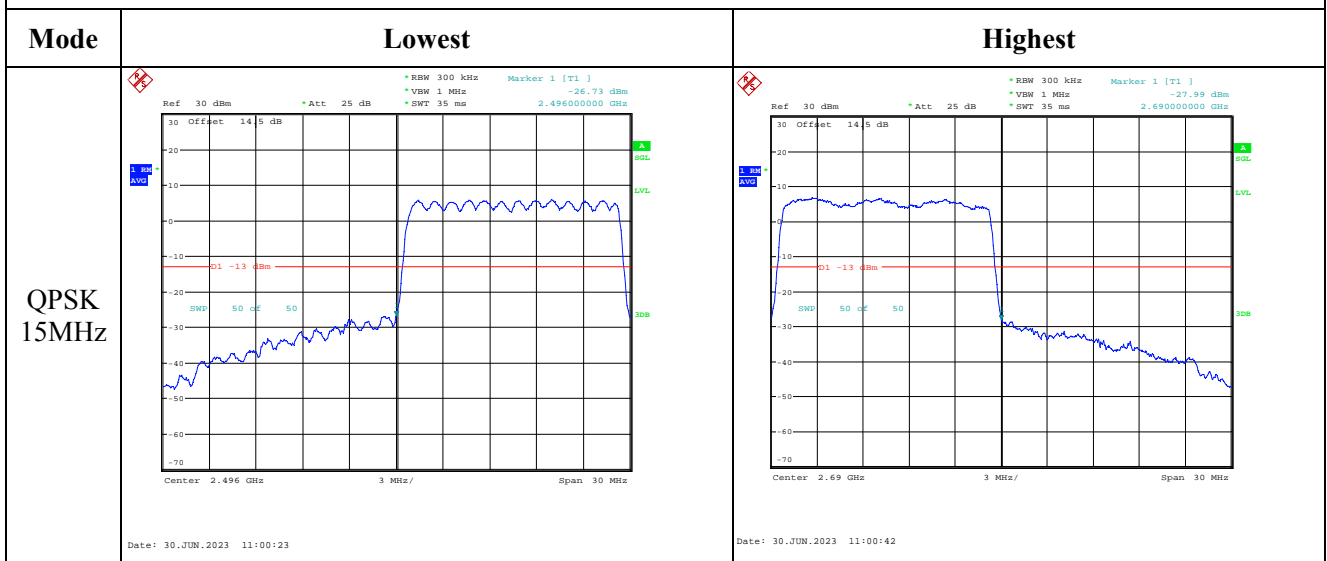
Out of band emission, Band Edge



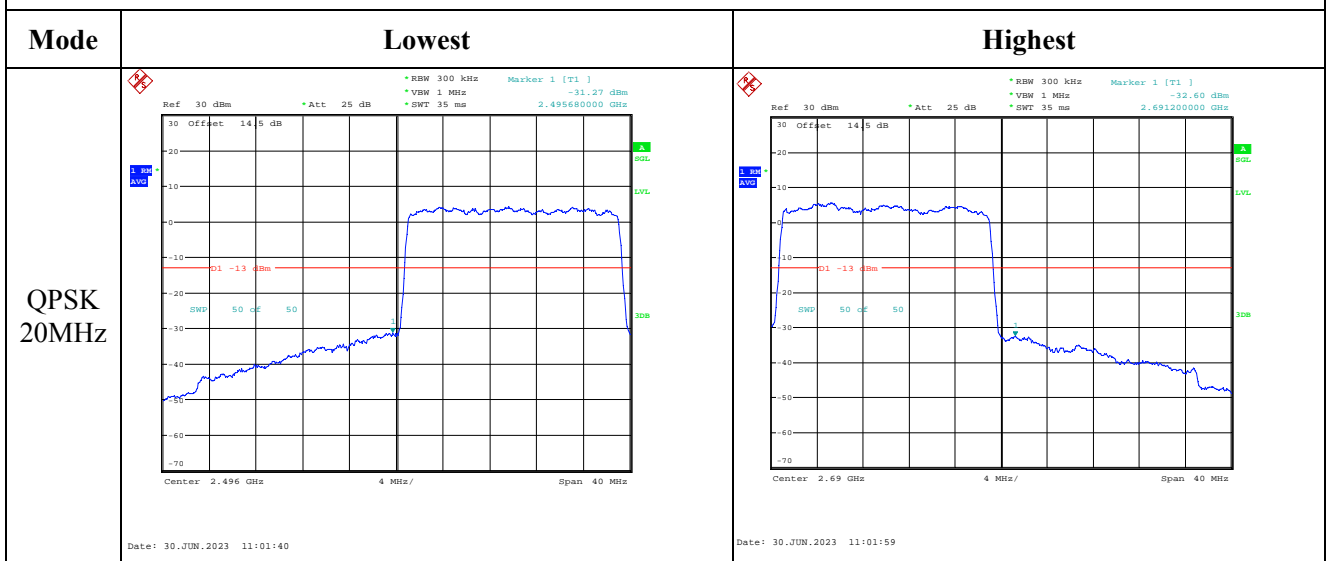
Out of band emission, Band Edge



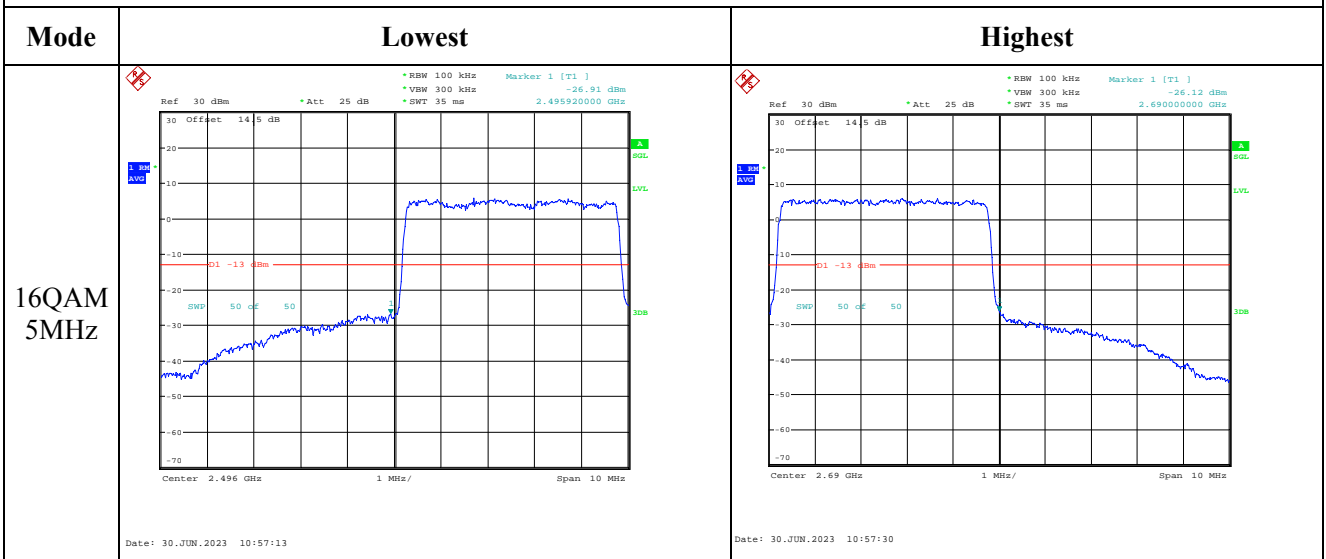
Out of band emission, Band Edge



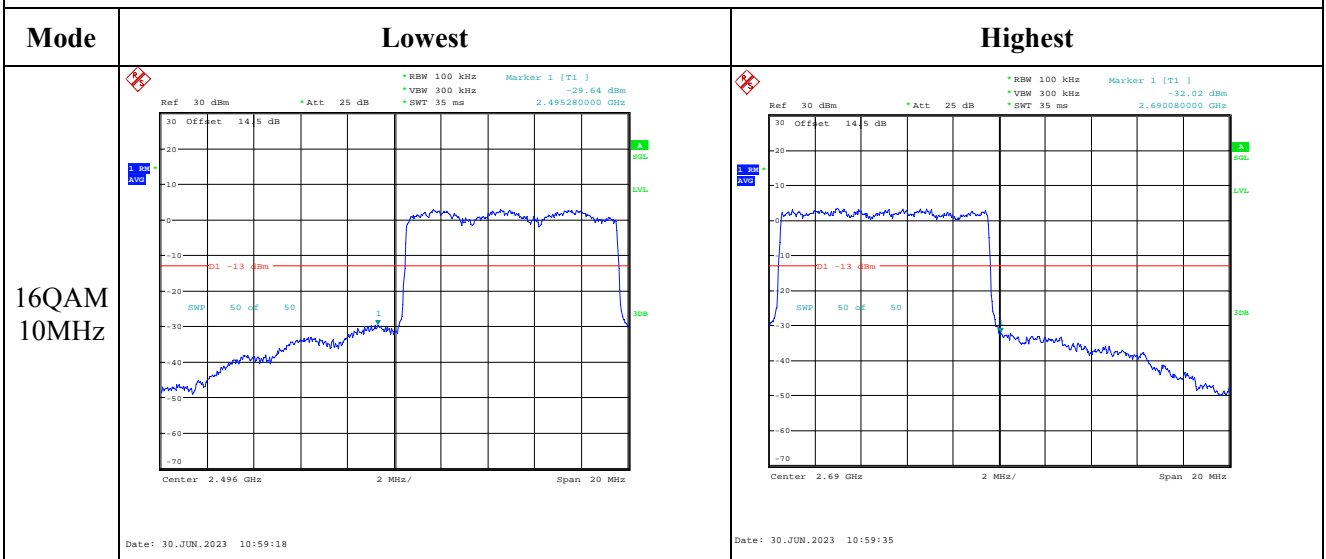
Out of band emission, Band Edge



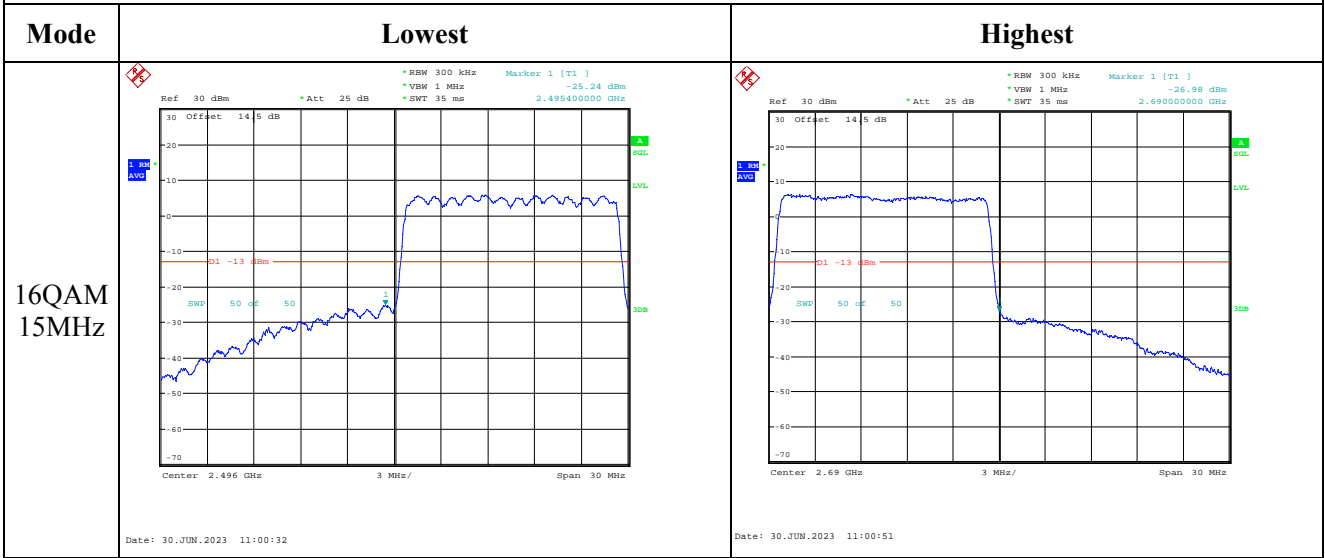
Out of band emission, Band Edge



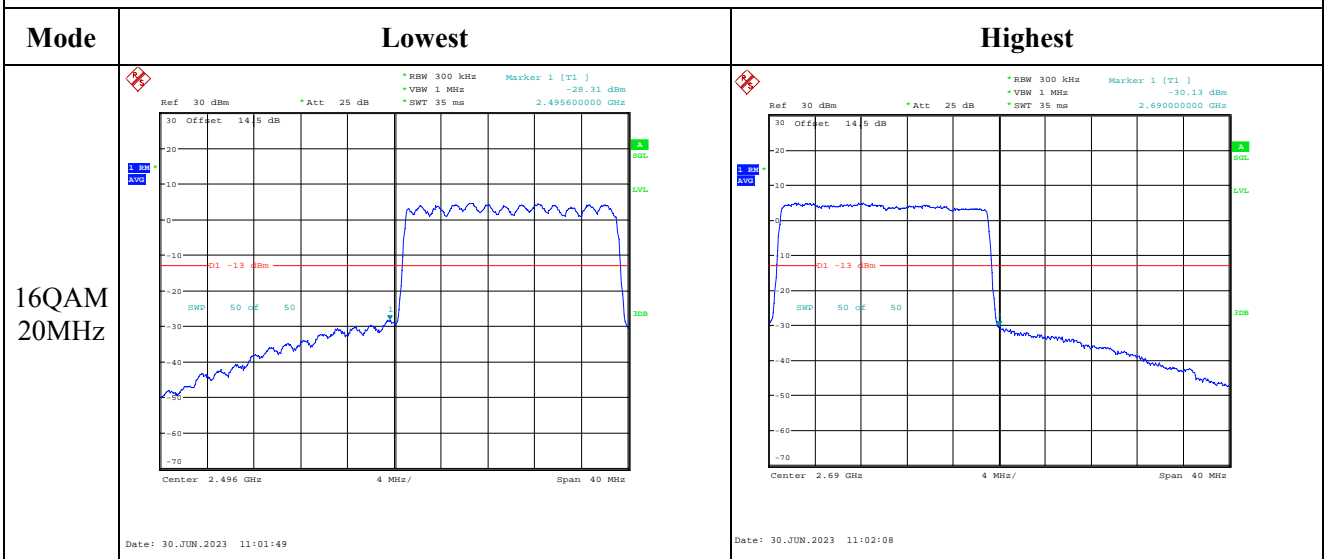
Out of band emission, Band Edge



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:	27A0-1	Test Date:	2023/6/27-2023/7/3
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-26.3	Relative Humidity: (%)	41-59	ATM Pressure: (kPa)	99.8-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/9/29	2023/9/28
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2022/7/15	2023/7/14

* 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	23.88	23.46	22.69	24.44	30
	RB1#3	24.05	23.48	22.79		
	RB1#5	23.88	23.26	22.67		
	RB3#0	24.06	23.35	22.58		
	RB3#3	23.68	23.35	22.56		
	RB6#0	22.5	22.36	21.78		
1.4MHz 16QAM	RB1#0	22.57	22.23	21.64	23.22	30
	RB1#3	22.84	22.42	21.8		
	RB1#5	22.52	22.24	21.62		
	RB3#0	22.61	22.48	21.42		
	RB3#3	22.72	22.49	21.44		
	RB6#0	21.47	21.41	20.7		
3MHz QPSK	RB1#0	23.98	23.89	23.43	24.36	30
	RB1#8	23.96	23.73	23.46		
	RB1#14	23.92	23.44	23.43		
	RB6#0	22.94	22.45	22.39		
	RB6#9	22.9	22.41	22.37		
	RB15#0	22.99	22.65	22.3		
3MHz 16QAM	RB1#0	23.01	22.94	22.39	23.39	30
	RB1#8	22.98	22.91	22.41		
	RB1#14	22.78	22.86	22.37		
	RB6#0	21.87	21.52	21.31		
	RB6#9	21.89	21.54	21.48		
	RB15#0	21.89	21.5	21.48		
5MHz QPSK	RB1#0	23.9	23.53	23.63	24.35	30
	RB1#13	23.97	23.65	23.43		
	RB1#24	23.91	23.5	23.31		
	RB15#0	22.98	22.54	22.32		
	RB15#10	23.01	22.36	22.49		
	RB25#0	23.01	22.36	22.72		
5MHz 16QAM	RB1#0	22.78	22.36	22.61	23.23	30
	RB1#13	22.85	22.49	22.77		
	RB1#24	22.77	22.32	22.63		
	RB15#0	22.07	21.38	21.71		
	RB15#10	22.06	21.42	21.73		
	RB25#0	22.07	21.58	21.72		
10MHz QPSK	RB1#0	23.93	23.4	23.67	24.4	30
	RB1#25	24.02	23.37	23.85		
	RB1#49	23.79	22.99	23.43		

	RB25#0	22.98	22.09	22.31		
	RB25#25	22.73	22.08	22.35		
	RB50#0	22.69	22.2	22.28		
10MHz 16QAM	RB1#0	23.19	22.23	22.31	23.65	30
	RB1#25	23.27	22.33	22.42		
	RB1#49	22.93	22.24	22.38		
	RB25#0	21.97	21.32	21.68		
	RB25#25	21.87	21.44	21.69		
	RB50#0	22.06	21.49	21.66		
15MHz QPSK	RB1#0	23.88	23.5	23.54	24.26	30
	RB1#38	23.87	23.63	23.54		
	RB1#74	23.72	23.44	23.29		
	RB36#0	23.07	22.45	22.47		
	RB36#39	22.86	22.6	22.58		
	RB75#0	22.98	22.64	22.45		
15MHz 16QAM	RB1#0	23.3	22.83	22.5	23.68	30
	RB1#38	23.29	22.84	22.51		
	RB1#74	23.16	22.84	22.21		
	RB36#0	22	21.59	21.54		
	RB36#39	21.9	21.68	21.67		
	RB75#0	21.97	21.72	21.69		
20MHz QPSK	RB1#0	23.74	23.56	22.57	24.39	30
	RB1#50	24.01	23.76	22.57		
	RB1#99	23.48	23.12	22.23		
	RB50#0	22.95	22.27	21.39		
	RB50#50	22.74	22.34	21.32		
	RB100#0	22.74	22.3	21.39		
20MHz 16QAM	RB1#0	22.68	22.26	21.77	23.48	30
	RB1#50	23.1	22.68	22.09		
	RB1#99	22.6	22.21	21.7		
	RB50#0	21.85	21.53	20.8		
	RB50#50	21.85	21.55	20.78		
	RB100#0	21.93	21.53	20.87		

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	11.35	11.03	11.41	13
	RB100#0	6.54	6.47	6.51	13
20MHz 16QAM	RB1#0	10.77	10.51	10.96	13
	RB100#0	7.24	7.24	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
1.4MHz QPSK	1.104	1.092	1.104	1.296	1.308	1.332
1.4MHz 16QAM	1.104	1.104	1.104	1.278	1.326	1.302
3MHz QPSK	2.687	2.687	2.7	2.892	2.880	2.9
3MHz 16QAM	2.687	2.687	2.687	2.880	2.880	2.880
5MHz QPSK	4.52	4.560	4.52	5.14	5.180	5.16
5MHz 16QAM	4.54	4.52	4.560	5.18	5.14	5.160
10MHz QPSK	8.96	8.96	9	9.92	9.96	10
10MHz 16QAM	8.96	8.96	8.96	9.76	9.80	9.80
15MHz QPSK	13.560	13.560	13.560	15.300	15.240	15.480
15MHz 16QAM	13.560	13.560	13.62	15.060	15.120	15.24
20MHz QPSK	18	18.08	18	20	19.52	20
20MHz 16QAM	18	17.92	18	20	19.52	20

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.
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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.
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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	3.85	1711.069	1710.00	1779.084	1780
	-20	3.85	1711.059	1710.00	1779.087	1780
	-10	3.85	1711.044	1710.00	1779.037	1780
	0	3.85	1711.092	1710.00	1779.071	1780
	10	3.85	1711.010	1710.00	1779.078	1780
	20	3.85	1711.040	1710.00	1779.040	1780
	30	3.85	1711.076	1710.00	1779.025	1780
	40	3.85	1711.024	1710.00	1779.076	1780
	50	3.85	1711.031	1710.00	1779.083	1780
Frequency Stability vs. Voltage	20	3.6	1711.079	1710.00	1779.073	1780
	20	4.35	1711.016	1710.00	1779.064	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	3.85	1711.038	1710.00	1779.012	1780
	-20	3.85	1711.082	1710.00	1779.011	1780
	-10	3.85	1711.086	1710.00	1779.058	1780
	0	3.85	1711.010	1710.00	1779.005	1780
	10	3.85	1711.022	1710.00	1779.044	1780
	20	3.85	1711.040	1710.00	1779.040	1780
	30	3.85	1711.091	1710.00	1779.097	1780
	40	3.85	1711.022	1710.00	1779.089	1780
	50	3.85	1711.050	1710.00	1779.053	1780
Frequency Stability vs. Voltage	20	3.6	1711.028	1710.00	1779.002	1780
	20	4.35	1711.061	1710.00	1779.015	1780
					Result:	Pass

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

Occupied Bandwidth		
Channel	1.4MHz Bandwidth QPSK	1.4MHz Bandwidth 16QAM
Lowest	<p style="text-align: center;">Date: 30.JUN.2023 00:04:01</p>	<p style="text-align: center;">Date: 30.JUN.2023 00:04:27</p>
Middle	<p style="text-align: center;">Date: 30.JUN.2023 00:04:48</p>	<p style="text-align: center;">Date: 30.JUN.2023 00:05:08</p>
Highest	<p style="text-align: center;">Date: 30.JUN.2023 00:05:32</p>	<p style="text-align: center;">Date: 30.JUN.2023 00:05:53</p>

Occupied Bandwidth

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

Occupied Bandwidth

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

Occupied Bandwidth

Channel	10MHz Bandwidth QPSK	10MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.920000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -11.17 dBm</p> <p>D1 14.81 dBm</p> <p>D2 -11.17 dBm</p> <p>Center 1.715 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:12:54</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.760000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -2.87 dBm</p> <p>D1 13.94 dBm</p> <p>D2 -2.87 dBm</p> <p>Center 1.715 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:13:18</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.960000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -0.99 dBm</p> <p>D1 14.6 dBm</p> <p>D2 -0.99 dBm</p> <p>Center 1.745 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:13:39</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.800000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -1.90 dBm</p> <p>D1 13.3 dBm</p> <p>D2 -1.90 dBm</p> <p>Center 1.745 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:13:59</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.760000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -1.23 dBm</p> <p>D1 14.23 dBm</p> <p>D2 -1.23 dBm</p> <p>Center 1.775 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:14:19</p>	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz Delta 1 [T1] *VBW 300 kHz *SWT 10 ms 9.800000000 MHz</p> <p>OSW 8.960000000 MHz Marker 1 [T1] -1.08 dBm</p> <p>D1 13.67 dBm</p> <p>D2 -1.08 dBm</p> <p>Center 1.775 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30.JUN.2023 00:14:39</p>

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -2.41 dB *VMW 1 MHz SWT 2.5 ms 15.36000000 MHz OSW 15.36000000 MHz Marker 1 [T1] -98 dBm D1 17.84 dBm Temp 1 [T1 OSW] 1.71990000 GHz Temp 2 [T1 OSW] 1.71072000 GHz Temp 3 [T1 OSW] 1.72428000 GHz Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:16:00</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.41 dB *VMW 1 MHz SWT 2.5 ms 15.06000000 MHz OSW 15.06000000 MHz Marker 1 [T1] -91 dBm D1 16.77 dBm Temp 1 [T1 OSW] 1.72100000 GHz Temp 2 [T1 OSW] 1.71078000 GHz Temp 3 [T1 OSW] 1.72428000 GHz Center 1.7175 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:16:20</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.23 dB *VMW 1 MHz SWT 2.5 ms 15.24000000 MHz OSW 15.24000000 MHz Marker 1 [T1] -93 dBm D1 17.63 dBm Temp 1 [T1 OSW] 1.73940000 GHz Temp 2 [T1 OSW] 1.73822000 GHz Temp 3 [T1 OSW] 1.75178000 GHz Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:16:44</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.36 dB *VMW 1 MHz SWT 2.5 ms 15.12000000 MHz OSW 15.12000000 MHz Marker 1 [T1] -98 dBm D1 16.58 dBm Temp 1 [T1 OSW] 1.73244000 GHz Temp 2 [T1 OSW] 1.73822000 GHz Temp 3 [T1 OSW] 1.75178000 GHz Center 1.745 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:17:07</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -1.55 dB *VMW 1 MHz SWT 2.5 ms 15.48000000 MHz OSW 15.48000000 MHz Marker 1 [T1] -93 dBm D1 16.84 dBm Temp 1 [T1 OSW] 1.76428000 GHz Temp 2 [T1 OSW] 1.76572000 GHz Temp 3 [T1 OSW] 1.77928000 GHz Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:17:31</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.30 dB *VMW 1 MHz SWT 2.5 ms 15.24000000 MHz OSW 15.24000000 MHz Marker 1 [T1] -93 dBm D1 16.64 dBm Temp 1 [T1 OSW] 1.76428000 GHz Temp 2 [T1 OSW] 1.76572000 GHz Temp 3 [T1 OSW] 1.77934000 GHz Center 1.7725 GHz 3 MHz/ Span 30 MHz Date: 30.JUN.2023 00:18:01</p>

Occupied Bandwidth

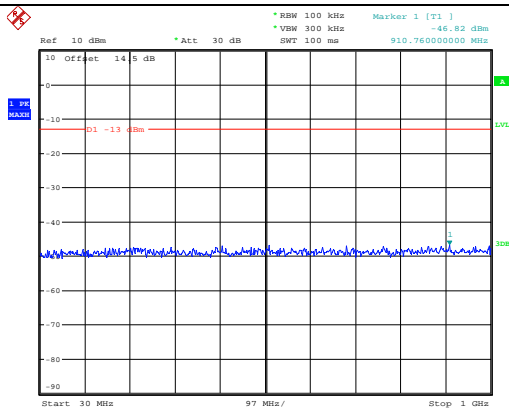
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.01 dB *VMW 1 MHz *SWT 2.5 ms 19.760000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 16.44 dBm Temp 1 [T1 OSW] 1.710400000 GHz Temp 2 [T1 OSW] 1.729040000 GHz Center 1.72 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:18:56</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.06 dB *VMW 1 MHz *SWT 2.5 ms 19.760000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 15.99 dBm Temp 1 [T1 OSW] 1.710320000 GHz Temp 2 [T1 OSW] 1.729040000 GHz Center 1.72 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:19:16</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.50 dB *VMW 1 MHz *SWT 2.5 ms 19.520000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 16.53 dBm Temp 1 [T1 OSW] 1.735240000 GHz Temp 2 [T1 OSW] 1.754040000 GHz Center 1.745 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:19:40</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 1.80 dB *VMW 1 MHz *SWT 2.5 ms 19.520000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 15.44 dBm Temp 1 [T1 OSW] 1.735240000 GHz Temp 2 [T1 OSW] 1.753560000 GHz Center 1.745 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:20:03</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] -0.68 dB *VMW 1 MHz *SWT 2.5 ms 19.760000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 15.54 dBm Temp 1 [T1 OSW] 1.760320000 GHz Temp 2 [T1 OSW] 1.779040000 GHz Center 1.77 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:20:28</p>	<p>Ref 30 dBm *Att 25 dB *RBW 300 kHz Delta 1 [T1] 0.87 dB *VMW 1 MHz *SWT 2.5 ms 19.680000000 MHz OSW 16.000000000 MHz Marker 1 [T1] 15 dBm Temp 1 [T1 OSW] 1.760160000 GHz Temp 2 [T1 OSW] 1.779040000 GHz Center 1.77 GHz 4 MHz/ Span 40 MHz Date: 30.JUN.2023 00:20:51</p>

Spurious Emissions at Antenna Terminal

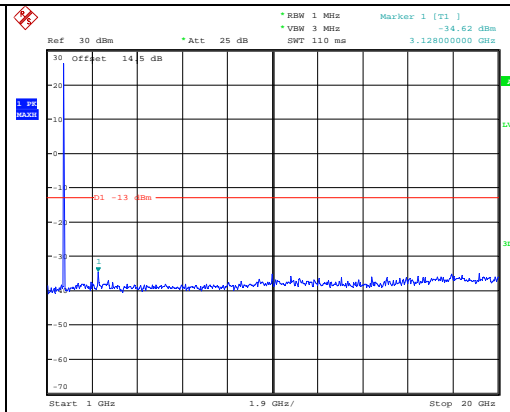
Channel

1.4MHz Bandwidth QPSK

Lowest

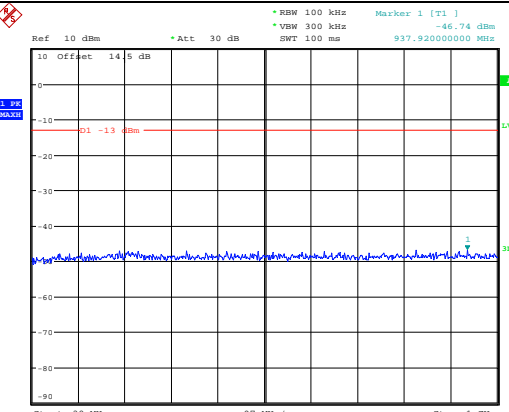


Date: 30.JUN.2023 15:17:41

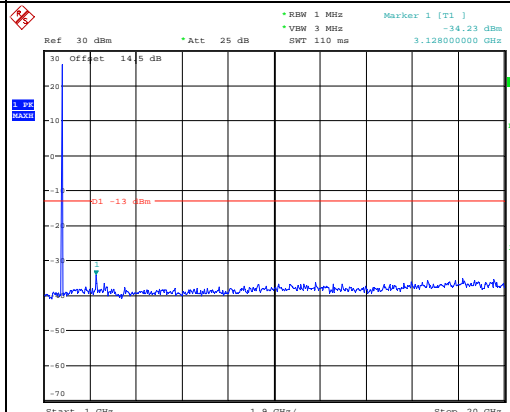


Date: 30.JUN.2023 15:17:53

Middle

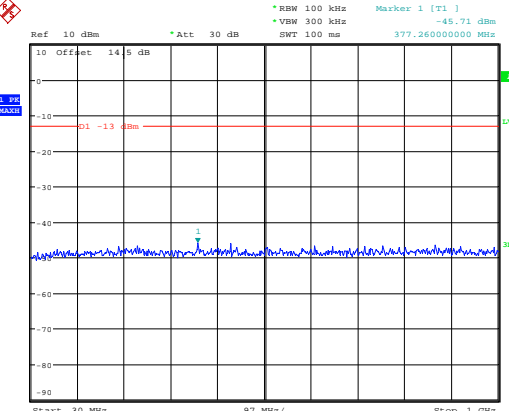


Date: 30.JUN.2023 15:18:12

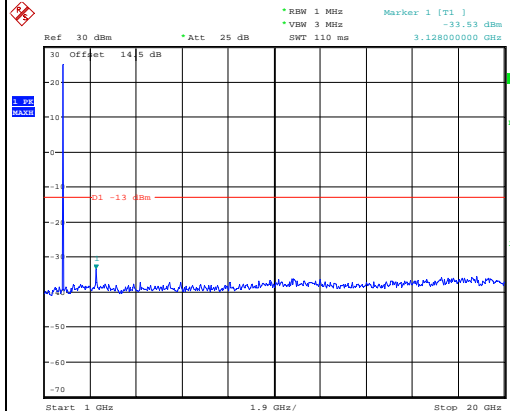


Date: 30.JUN.2023 15:18:24

Highest



Date: 30.JUN.2023 15:18:46



Date: 30.JUN.2023 15:18:59

Spurious Emissions at Antenna Terminal

Channel	3MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.04 dBm *VMW 300 kHz SWT 100 ms 235.640000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:43:48</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -35.17 dBm *VMW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:44:01</p>
Middle	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.40 dBm *VMW 300 kHz SWT 100 ms 943.740000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:44:19</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -34.77 dBm *VMW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:44:32</p>
Highest	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.39 dBm *VMW 300 kHz SWT 100 ms 629.460000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:44:47</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -34.79 dBm *VMW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:45:00</p>

Spurious Emissions at Antenna Terminal

Channel	5MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.43 dBm *VMW 300 kHz -46.43 dBm *SWT 100 ms 200.720000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:46:11</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -33.45 dBm *VMW 3 MHz -33.45 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:46:25</p>
Middle	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.51 dBm *VMW 300 kHz -46.51 dBm *SWT 100 ms 452.920000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:46:40</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -34.17 dBm *VMW 3 MHz -34.17 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:46:52</p>
Highest	<p>Ref 10 dBm Att 30 dB *RBW 100 kHz Marker 1 [T1] -46.20 dBm *VMW 300 kHz -46.20 dBm *SWT 100 ms 912.700000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:47:11</p>	<p>Ref 30 dBm Att 25 dB *RBW 1 MHz Marker 1 [T1] -35.50 dBm *VMW 3 MHz -35.50 dBm *SWT 110 ms 3.128000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:47:24</p>

Spurious Emissions at Antenna Terminal

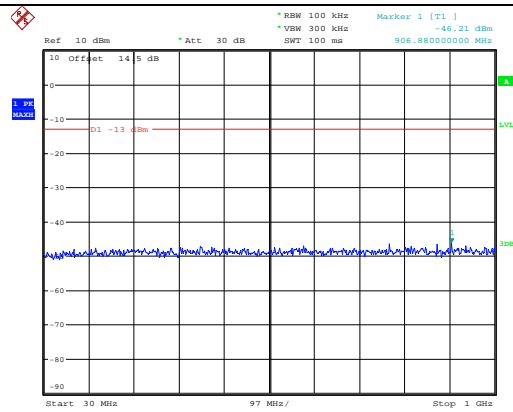
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -45.93 dBm VSW 300 kHz SWT 100 ms 747.800000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:56:59</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -35.75 dBm VSW 3 MHz SWT 110 ms 18.062000000 GHz</p> <p>Start 1 GHz 1.9 GHz/ Stop 20 GHz</p> <p>Date: 30.JUN.2023 15:57:08</p>
	Middle	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.25 dBm VSW 300 kHz SWT 100 ms 959.260000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:57:27</p>
Highest		<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.14 dBm VSW 300 kHz SWT 100 ms 241.460000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 30.JUN.2023 15:57:55</p>

Spurious Emissions at Antenna Terminal

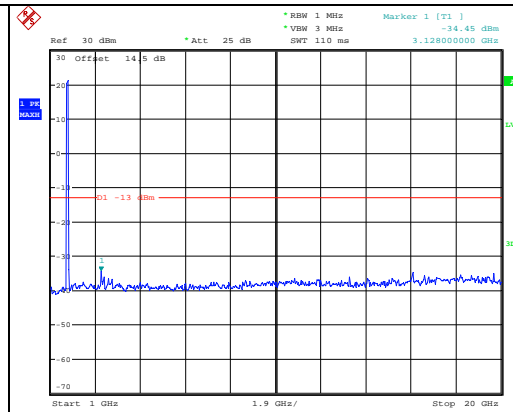
Channel

15MHz Bandwidth QPSK

Lowest

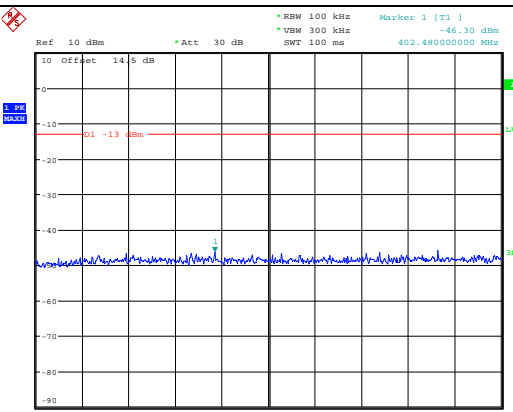


Date: 30.JUN.2023 15:59:01

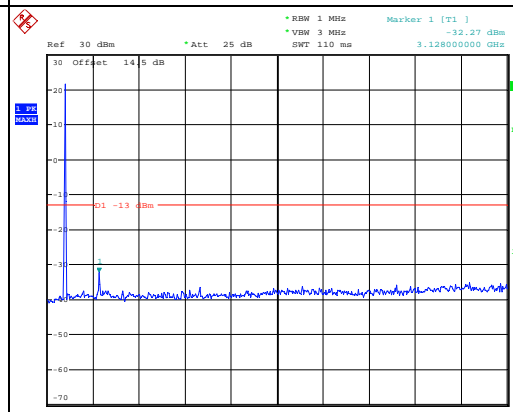


Date: 30.JUN.2023 15:59:15

Middle

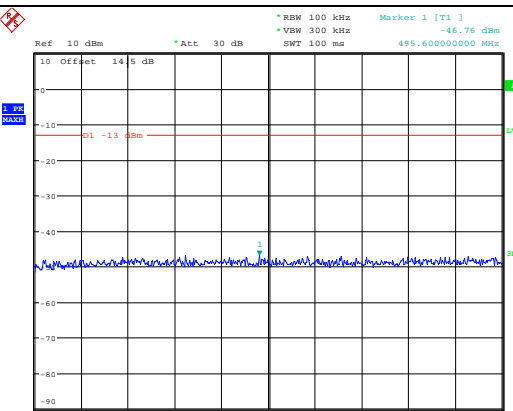


Date: 30.JUN.2023 15:59:33

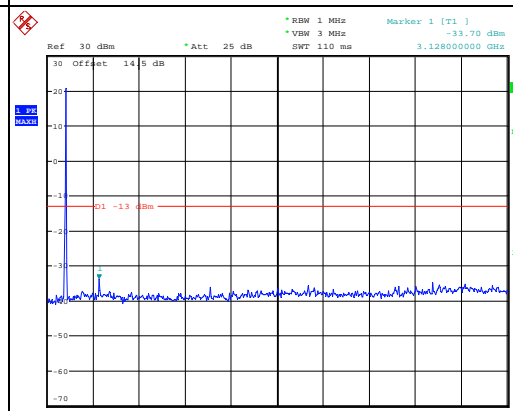


Date: 30.JUN.2023 15:59:46

Highest



Date: 30.JUN.2023 16:00:01



Date: 30.JUN.2023 16:00:14

Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.00 dBm VSW 300 kHz SWT 100 ms 961.200000000 MHz</p> <p>Date: 30.JUN.2023 16:01:01</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -34.17 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 30.JUN.2023 16:01:14</p>
Middle	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.17 dBm VSW 300 kHz SWT 100 ms 270.560000000 MHz</p> <p>Date: 30.JUN.2023 16:01:33</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -31.07 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 30.JUN.2023 16:01:46</p>
Highest	<p>Ref 10 dBm Att 30 dB RBW 100 kHz Marker 1 [T1] -46.33 dBm VSW 300 kHz SWT 100 ms 939.860000000 MHz</p> <p>Date: 30.JUN.2023 16:02:01</p>	<p>Ref 30 dBm Att 25 dB RBW 1 MHz Marker 1 [T1] -32.62 dBm VSW 3 MHz SWT 110 ms 3.128000000 GHz</p> <p>Date: 30.JUN.2023 16:02:14</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz		
QPSK 3MHz		
QPSK 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz		
QPSK 15MHz		
QPSK 20MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Date: 30.JUN.2023 11:13:55</p>	<p>Date: 30.JUN.2023 11:14:12</p>
16QAM 3MHz	<p>Date: 30.JUN.2023 11:15:16</p>	<p>Date: 30.JUN.2023 11:15:33</p>
16QAM 5MHz	<p>Date: 30.JUN.2023 11:16:37</p>	<p>Date: 30.JUN.2023 11:16:56</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -30.61 dBm VBW 300 kHz SWT 35 ms 1.709960000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.71 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30 JUN 2023 11:25:33</p>	<p>Ref 30 dBm Att 25 dB RBW 100 kHz Marker 1 [T1] -25.58 dBm VBW 300 kHz SWT 35 ms 1.780160000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.78 GHz 2 MHz/ Span 20 MHz</p> <p>Date: 30 JUN 2023 11:25:54</p>
16QAM 15MH	<p>Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -27.70 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.71 GHz 3 MHz/ Span 30 MHz</p> <p>Date: 30 JUN 2023 11:26:59</p>	<p>Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -20.53 dBm VBW 1 MHz SWT 35 ms 1.780000000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.78 GHz 3 MHz/ Span 30 MHz</p> <p>Date: 30 JUN 2023 11:27:18</p>
16QAM 20MH	<p>Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -31.87 dBm VBW 1 MHz SWT 35 ms 1.710000000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.71 GHz 4 MHz/ Span 40 MHz</p> <p>Date: 30 JUN 2023 11:28:38</p>	<p>Ref 30 dBm Att 25 dB RBW 300 kHz Marker 1 [T1] -23.88 dBm VBW 1 MHz SWT 35 ms 1.780080000 GHz</p> <p>30 Offset 14.5 dB -20 -10 0 -10 -20 -30 -40 -50 -60 -70</p> <p>D1 -13 dBm</p> <p>SWP 50 Hz 50</p> <p>Center 1.78 GHz 4 MHz/ Span 40 MHz</p> <p>Date: 30 JUN 2023 11:28:57</p>

4.15 Antenna Port Test Data and Results for LTE Band 71

Serial Number:	27A0-1	Test Date:	2023/6/27-2023/7/3
Test Site:	RF	Test Mode:	Transmitting
Tester:	Claire Liu	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5-26.3	Relative Humidity: (%)	41-59	ATM Pressure: (kPa)	99.8-100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSU26	200256	2023/3/31	2024/3/30
zhuoxiang	Coaxial Cable	SMA-178	211001	Each time	N/A
YINSAIGE	Coaxial Cable	SS402	SJ0100001	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
Weinschel	Power Splitter	1515	RA914	Each time	N/A
R&S	Wideband Radio Communication Tester	CMW500	149218	2023/3/31	2024/3/30
BACL	TEMP&HUMI Test Chamber	BTH-150-40	30174	2022/9/29	2023/9/28
UNI-T	Multimeter	UT39A+	C210582554	2022/9/29	2023/9/28
ZHAOXIN	DC Power Supply	RXN-6010D	21R6010D0912386	2022/7/15	2023/7/14

* 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	25.1	24.86	25.2	22.33	34.77
	RB1#13	24.68	24.92	25.25		
	RB1#24	24.52	24.77	24.99		
	RB15#0	23.51	23.83	23.81		
	RB15#10	23.61	23.79	24.07		
	RB25#0	23.62	23.77	23.96		
5MHz 16QAM	RB1#0	23.9	23.71	23.94	21.12	34.77
	RB1#13	23.92	23.78	24.03		
	RB1#24	23.69	23.67	24.04		
	RB15#0	22.68	22.86	22.84		
	RB15#10	22.95	22.86	23.14		
	RB25#0	23.01	22.82	22.98		
10MHz QPSK	RB1#0	25.34	25.01	24.9	22.42	34.77
	RB1#25	25.33	25.04	25.05		
	RB1#49	25.1	24.88	25.05		
	RB25#0	24.25	23.61	23.9		
	RB25#25	23.98	23.73	24.27		
	RB50#0	24.13	23.67	24.14		
10MHz 16QAM	RB1#0	24.27	24.09	24.01	21.39	34.77
	RB1#25	24.31	24.17	24.17		
	RB1#49	24.07	24	24.17		
	RB25#0	23.32	22.68	22.96		
	RB25#25	23.06	22.73	23.28		
	RB50#0	23.17	22.7	23.17		
15MHz QPSK	RB1#0	25.19	24.4	24.82	22.27	34.77
	RB1#38	25.08	24.41	24.9		
	RB1#74	24.83	24.25	24.97		
	RB36#0	24.51	23.22	24.11		
	RB36#39	24.29	23.2	24.27		
	RB75#0	24.42	23.58	24.23		
15MHz 16QAM	RB1#0	24.42	24.03	24.37	21.56	34.77
	RB1#38	24.3	24.29	24.39		
	RB1#74	24	23.91	24.48		
	RB36#0	23.46	22.47	23.07		
	RB36#39	23.15	22.6	23.27		
	RB75#0	23.06	22.7	23.23		
20MHz QPSK	RB1#0	25.02	23.07	24.65	22.2	34.77
	RB1#50	25.12	23.09	24.93		
	RB1#99	24.19	24.7	24.83		

	RB50#0	24.19	23.4	24.48		
	RB50#50	23.99	23.36	24.33		
	RB100#0	24.05	23.42	24.48		
20MHz 16QAM	RB1#0	23.81	24.11	24.23	21.64	34.77
	RB1#50	23.97	24.35	24.56		
	RB1#99	23.48	23.98	24.38		
	RB50#0	23.14	22.35	23.49		
	RB50#50	22.96	22.43	23.37		
	RB100#0	23.13	22.46	23.42		

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	9.84	9.87	9.46	13
	RB100#0	6.79	6.15	6.47	13
20MHz 16QAM	RB1#0	9.26	9.55	9.1	13
	RB100#0	7.4	7.05	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	4.48	4.5	4.52	5.00	5.1	5.18
5MHz 16QAM	4.5	4.52	4.560	5.1	5.16	5.260
10MHz QPSK	8.92	8.88	9	9.64	9.60	10
10MHz 16QAM	8.92	8.92	9	9.60	9.68	10
15MHz QPSK	13.680	13.38	13.680	15.000	14.76	15.240
15MHz 16QAM	13.62	13.38	13.680	14.94	14.70	15.420
20MHz QPSK	18	17.76	18.08	20	19.36	19.60
20MHz 16QAM	18	17.76	18.08	20	19.20	19.36

Note: The test plots please refer to the Plots of Occupied Bandwidth

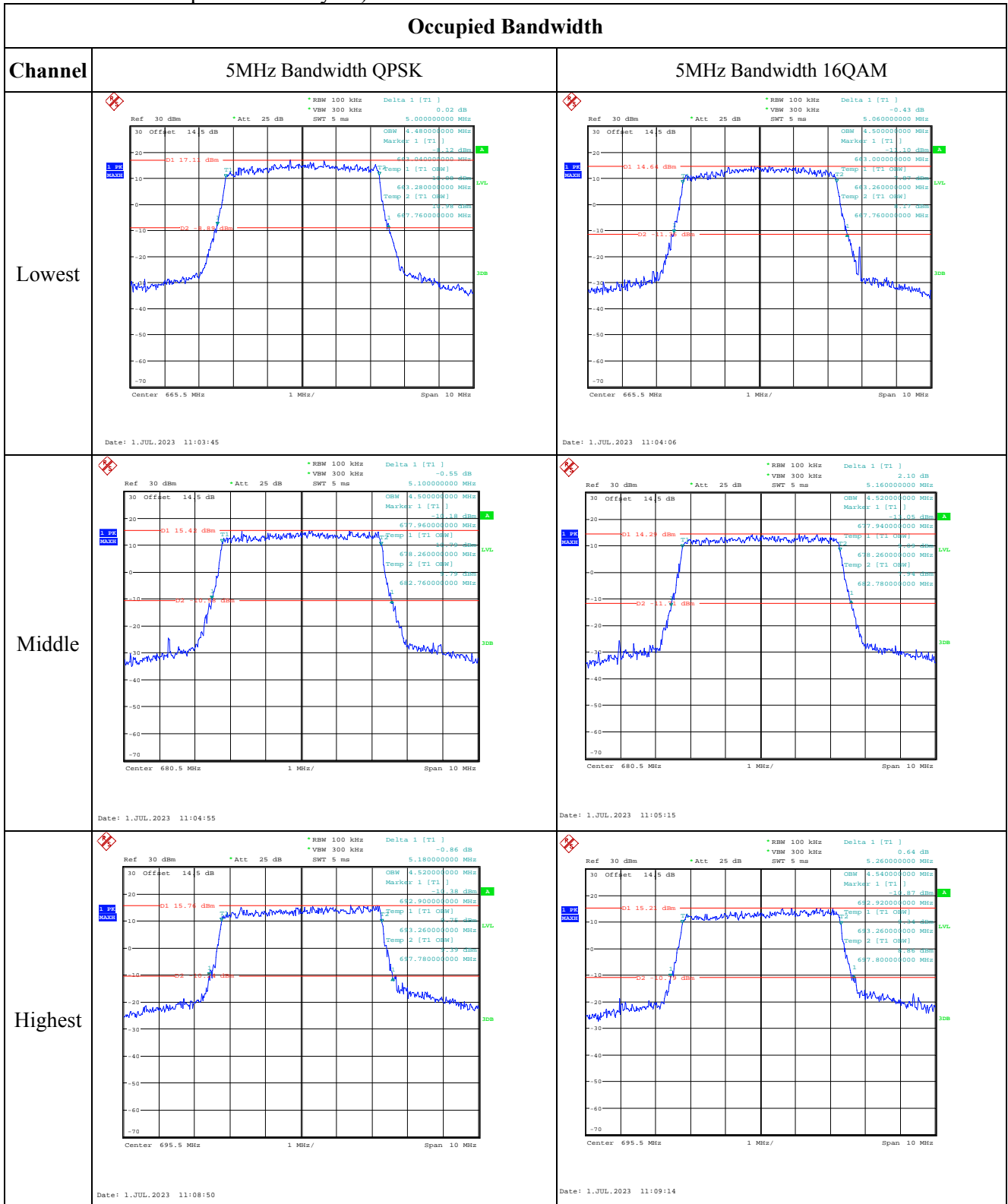
FCC §2.1051, §27.53:Spurious Emissions at Antenna Terminal**Result:****Pass, Please refer to the test plots of Spurious Emissions at Antenna Terminal.**

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

FCC §2.1055, §27.54: Frequency Stability						
Test Mode:	20M QPSK	Test Channel: Lowest for Lower Edge,Highest for Upper Edge				
Test Item	Temperature (°C)	Voltage (V _{DC})	Lower Edge (MHz)		Upper Edge (MHz)	
			Result	Limit	Result	Limit
Frequency Stability vs. Temperature	-30	3.85	664.039	663.00	697.084	698.00
	-20	3.85	664.069	663.00	697.078	698.00
	-10	3.85	664.031	663.00	697.055	698.00
	0	3.85	664.029	663.00	697.073	698.00
	10	3.85	664.081	663.00	697.043	698.00
	20	3.85	664.040	663.00	697.040	698.00
	30	3.85	664.027	663.00	697.041	698.00
	40	3.85	664.065	663.00	697.080	698.00
Frequency Stability vs. Voltage	20	3.6	664.075	663.00	697.063	698.00
	20	4.35	664.090	663.00	697.100	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	3.85	664.065	663.00	697.040	698.00
	-20	3.85	664.096	663.00	697.024	698.00
	-10	3.85	664.035	663.00	697.066	698.00
	0	3.85	664.038	663.00	697.038	698.00
	10	3.85	664.067	663.00	697.085	698.00
	20	3.85	664.040	663.00	697.040	698.00
	30	3.85	664.057	663.00	697.043	698.00
	40	3.85	664.088	663.00	697.024	698.00
Frequency Stability vs. Voltage	20	3.6	664.040	663.00	697.041	698.00
	20	4.35	664.023	663.00	697.037	698.00
Result:					Pass	

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



Occupied Bandwidth

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

Occupied Bandwidth

Channel	15MHz Bandwidth QPSK	15MHz Bandwidth 16QAM
Lowest	<p>Date: 1.JUL.2023 11:13:44</p>	<p>Date: 1.JUL.2023 11:14:07</p>
Middle	<p>Date: 1.JUL.2023 11:41:25</p>	<p>Date: 1.JUL.2023 11:41:45</p>
Highest	<p>Date: 1.JUL.2023 11:42:30</p>	<p>Date: 1.JUL.2023 11:42:54</p>

Occupied Bandwidth

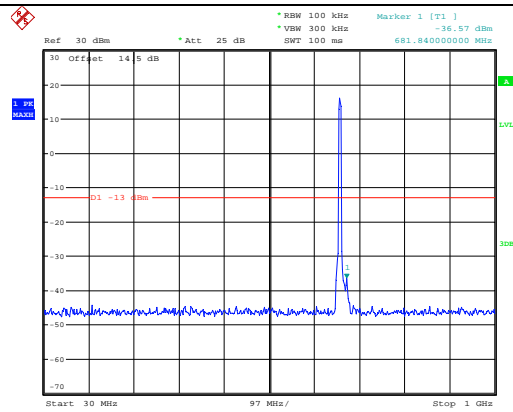
Channel	20MHz Bandwidth QPSK	20MHz Bandwidth 16QAM
Lowest		
Middle		
Highest		

Spurious Emissions at Antenna Terminal

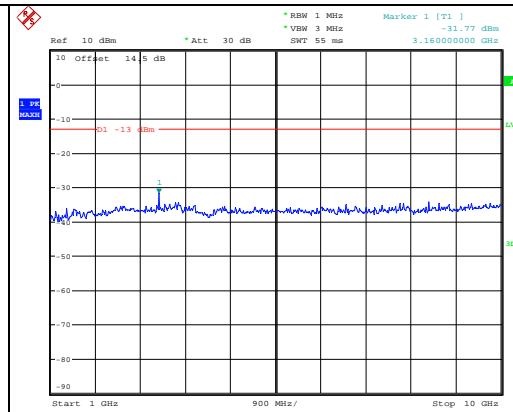
Channel

5MHz Bandwidth QPSK

Lowest

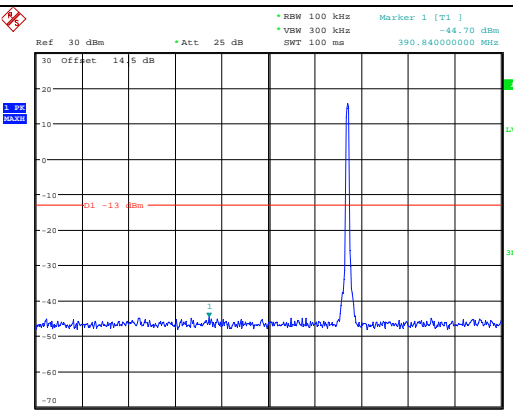


Date: 1.JUL.2023 14:13:01

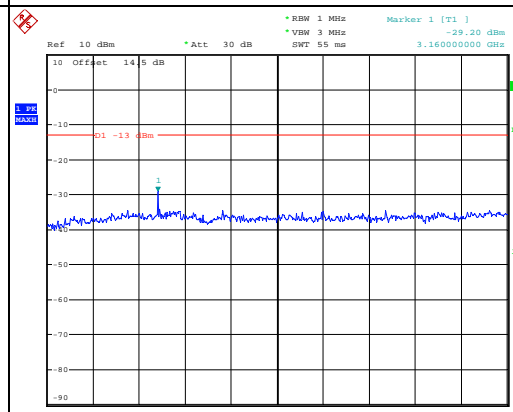


Date: 1.JUL.2023 14:13:14

Middle

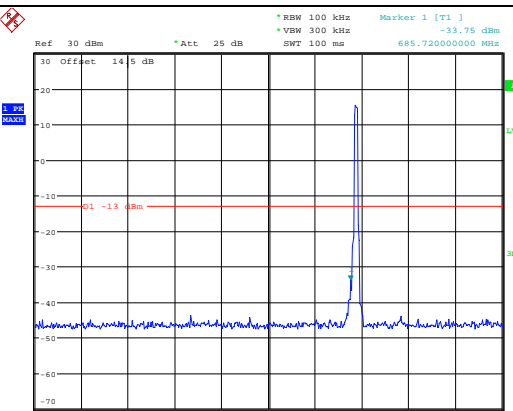


Date: 1.JUL.2023 14:28:27

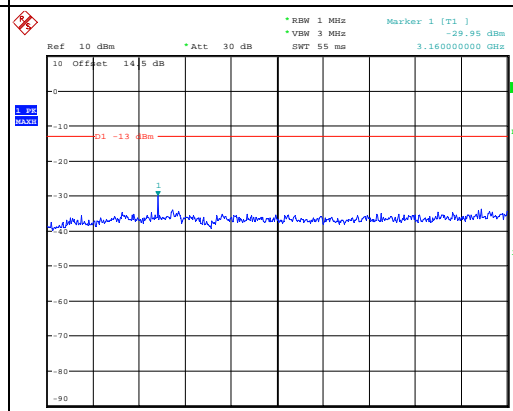


Date: 1.JUL.2023 14:28:40

Highest



Date: 1.JUL.2023 14:29:25



Date: 1.JUL.2023 14:29:38

Spurious Emissions at Antenna Terminal

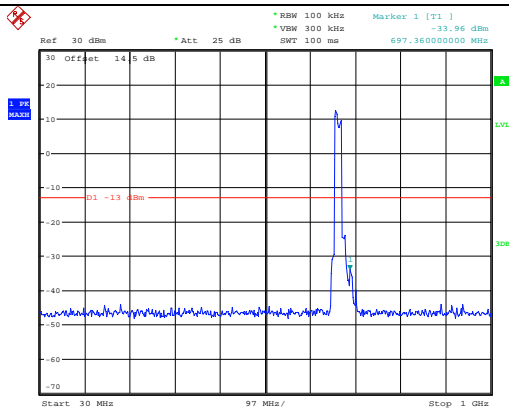
Channel	10MHz Bandwidth QPSK	
Lowest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -28.15 dBm 679.99800000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 1.JUL.2023 14:43:14</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz *VSW 3 MHz *SWT 55 ms Marker 1 [T1] -28.07 dBm 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 1.JUL.2023 14:43:30</p>
Middle	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -39.58 dBm 701.24000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 1.JUL.2023 14:44:24</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz *VSW 3 MHz *SWT 55 ms Marker 1 [T1] -29.98 dBm 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 1.JUL.2023 14:44:36</p>
Highest	<p>Ref 30 dBm *Att 25 dB *RBW 100 kHz *VSW 300 kHz *SWT 100 ms Marker 1 [T1] -43.76 dBm 80.440000000 MHz</p> <p>Start 30 MHz 97 MHz/ Stop 1 GHz</p> <p>Date: 1.JUL.2023 14:46:42</p>	<p>Ref 10 dBm *Att 30 dB *RBW 1 MHz *VSW 3 MHz *SWT 55 ms Marker 1 [T1] -28.10 dBm 3.142000000 GHz</p> <p>Start 1 GHz 900 MHz/ Stop 10 GHz</p> <p>Date: 1.JUL.2023 14:46:55</p>

Spurious Emissions at Antenna Terminal

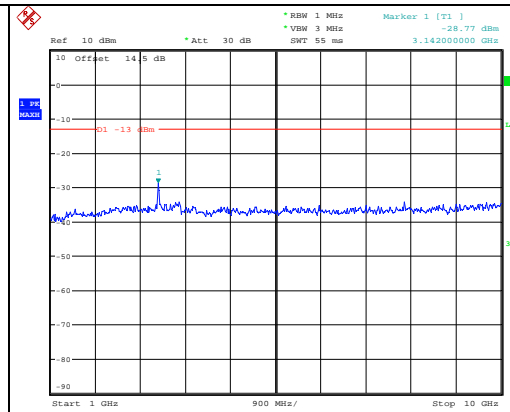
Channel

15MHz Bandwidth QPSK

Lowest

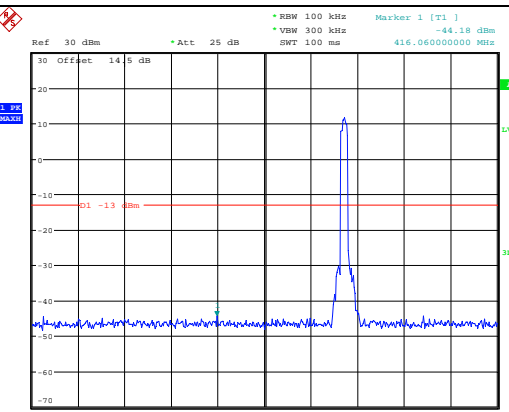


Date: 1.JUL.2023 14:54:19

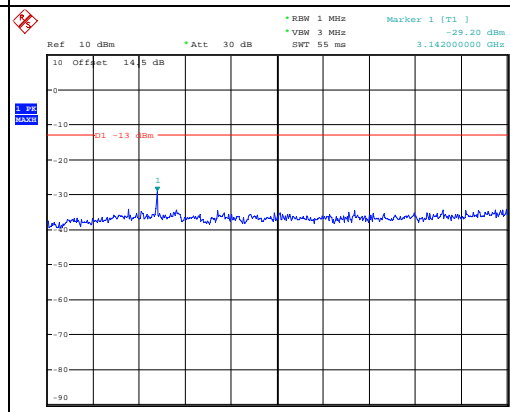


Date: 1.JUL.2023 14:54:32

Middle

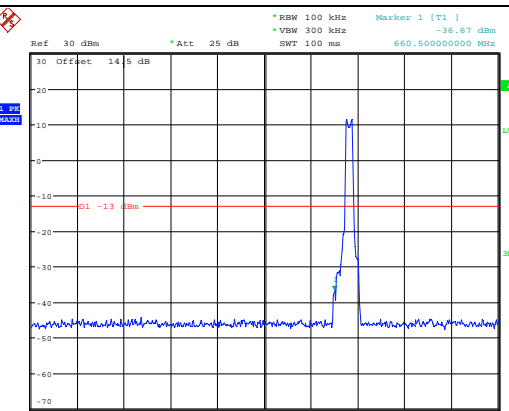


Date: 1.JUL.2023 14:55:08

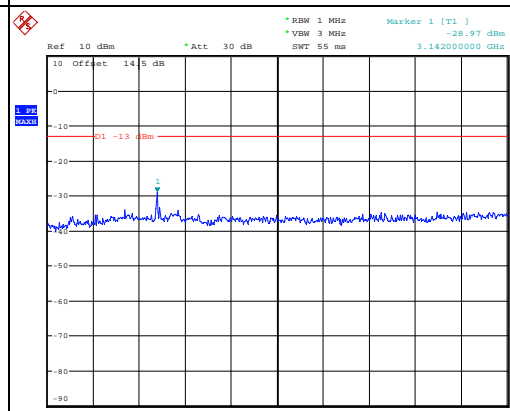


Date: 1.JUL.2023 14:55:21

Highest



Date: 1.JUL.2023 15:13:17



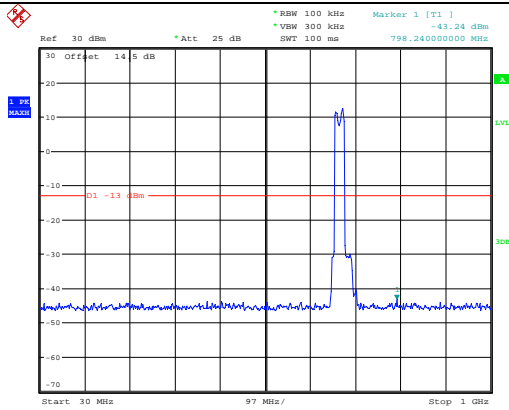
Date: 1.JUL.2023 14:56:11

Spurious Emissions at Antenna Terminal

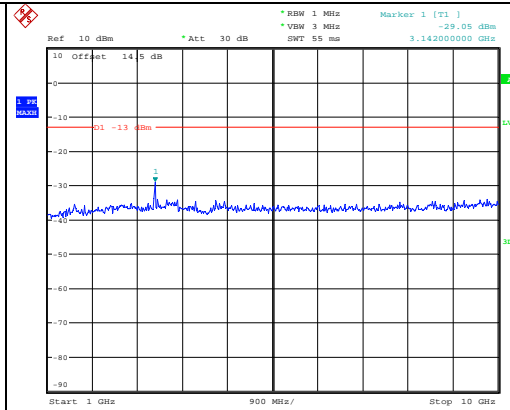
Channel

20MHz Bandwidth QPSK

Lowest

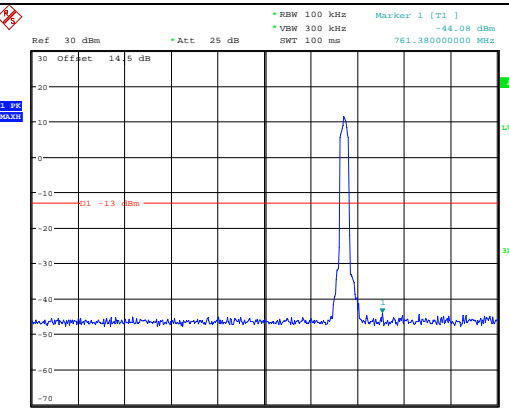


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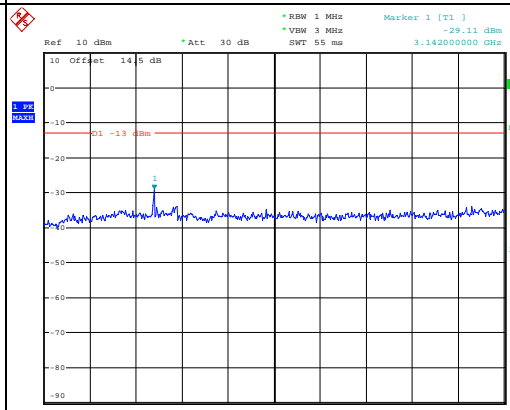


Date: 1.JUL.2023 14:57:17

Middle

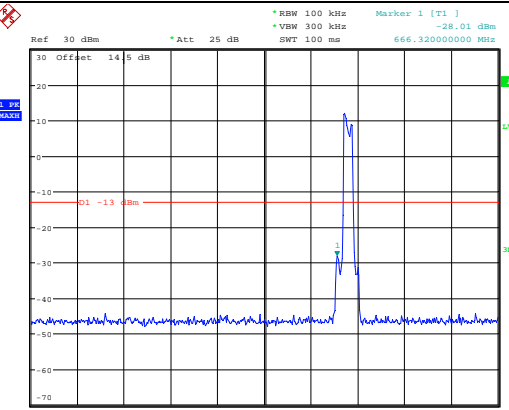


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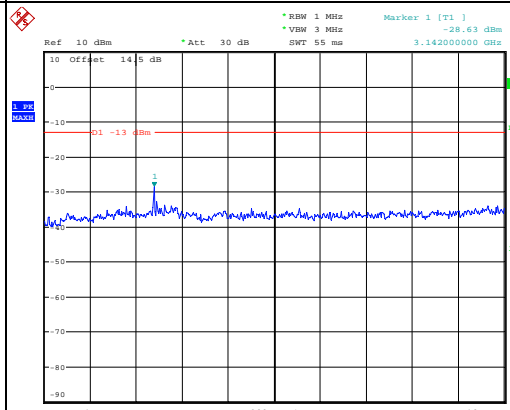


Date: 1.JUL.2023 14:58:13

Highest



Date: 1.JUL.2023 15:07:07

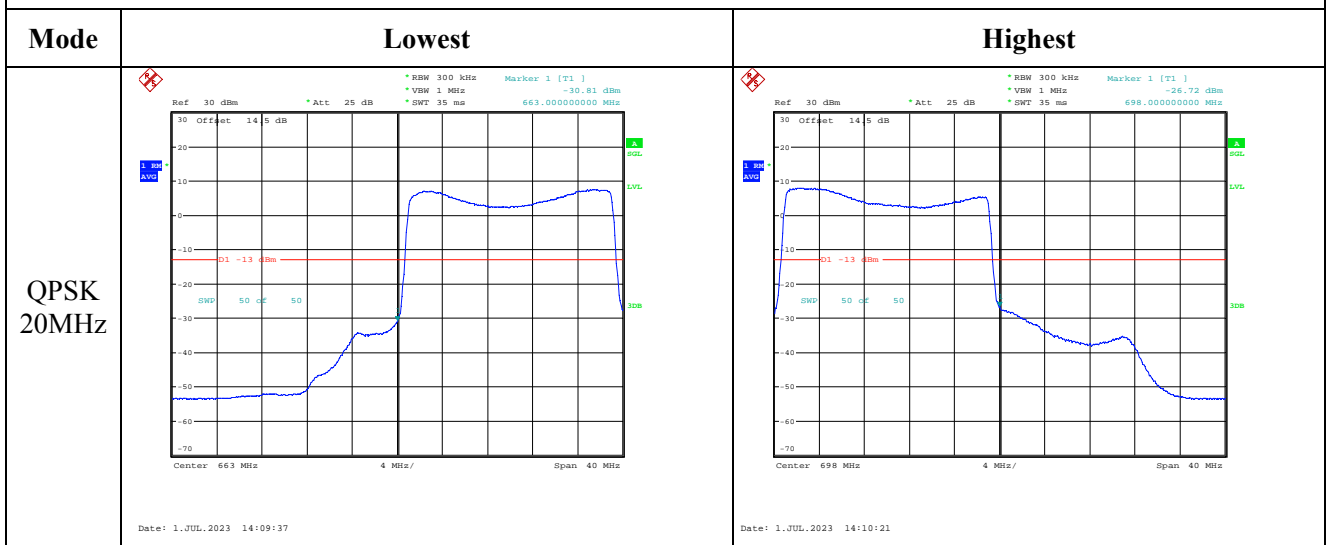


Date: 1.JUL.2023 14:59:20

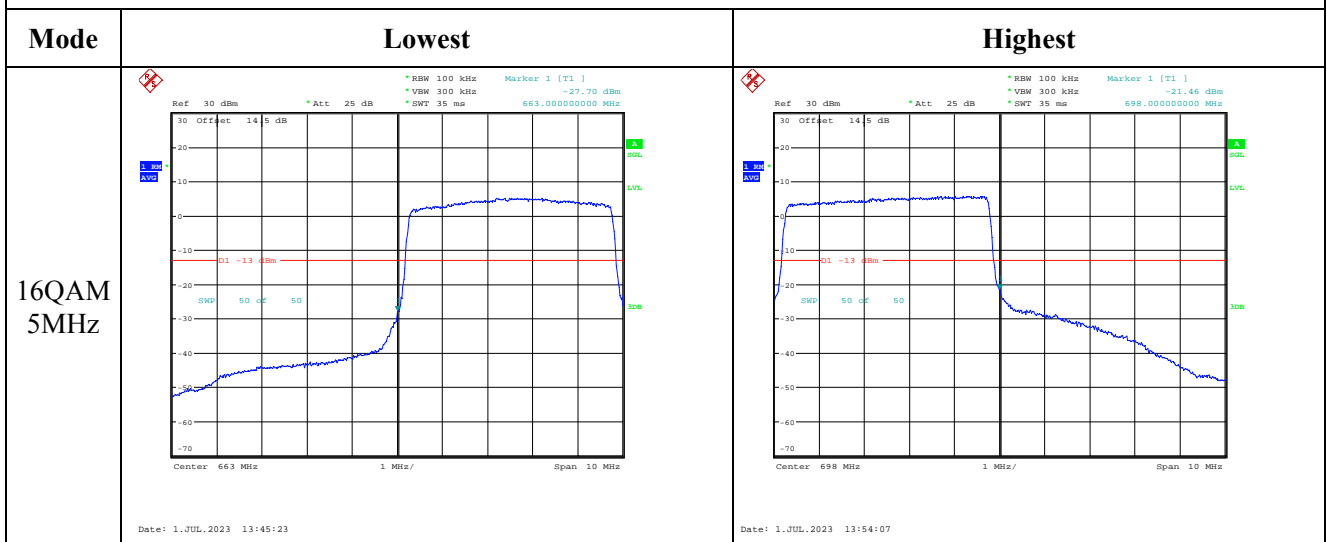
Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 5MHz		
QPSK 10MHz		
QPSK 15MHz		

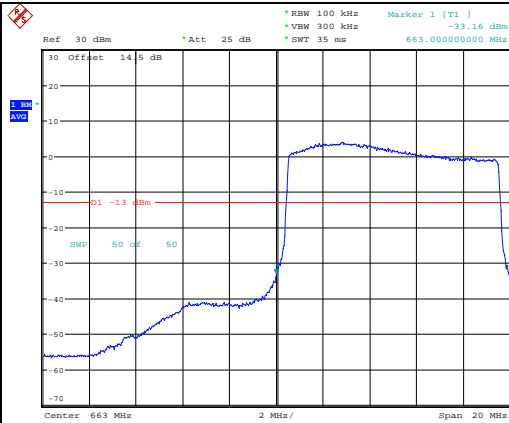
Out of band emission, Band Edge



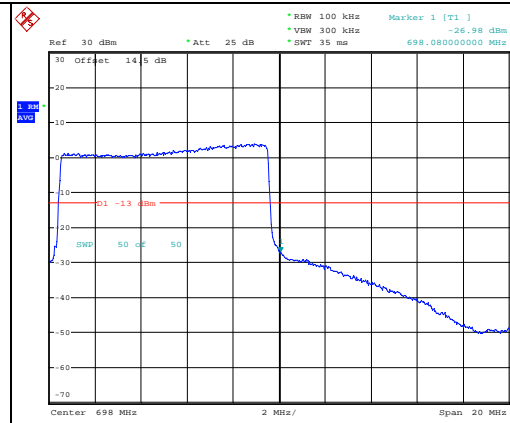
Out of band emission, Band Edge



16QAM
10MHz

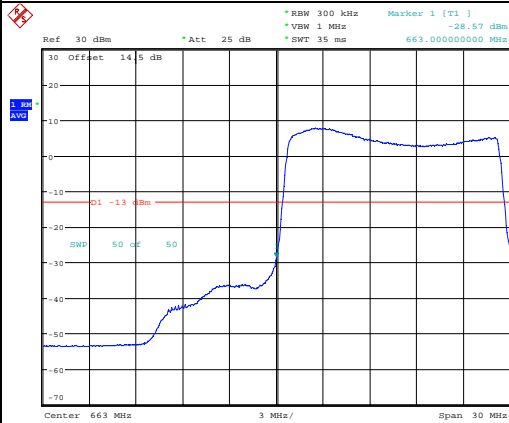


Date: 1.JUL.2023 13:54:55

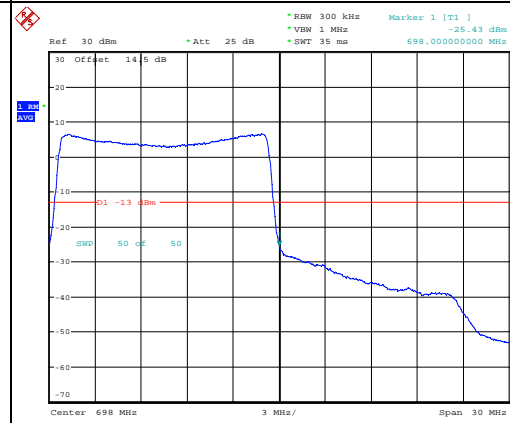


Date: 1.JUL.2023 13:55:42

16QAM
15MHz



Date: 1.JUL.2023 13:56:54



Date: 1.JUL.2023 14:09:01

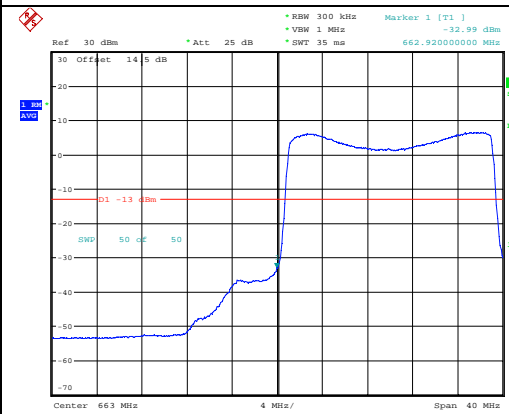
Out of band emission, Band Edge

Mode

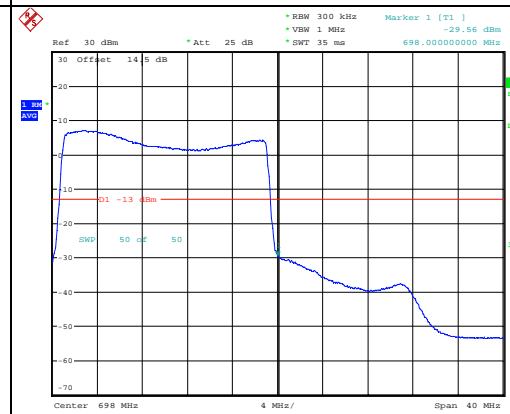
Lowest

Highest

16QAM
20MHz



Date: 1.JUL.2023 14:09:47



Date: 1.JUL.2023 14:10:30

4.16 Radiated Spurious Emissions

Serial Number:	27A0-1	Test Date:	2023/6/27~2023/6/28
Test Site:	966-2,966-1	Test Mode:	Transmitting
Tester:	Vic Du,Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~27	Relative Humidity: (%)	59~70	ATM Pressure: (kPa)	100.2~100.4
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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	2023/03/31	2024/03/30
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	2023/03/31	2024/03/30
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								
622.89	H	28.20	-45.54	0.00	0.48	-46.02	-13.00	33.02
622.89	V	36.49	-34.83	0.00	0.48	-35.31	-13.00	22.31
1648.400	H	41.34	-62.99	8.68	0.80	-55.11	-13.00	42.11
1648.400	V	44.45	-59.96	8.68	0.80	-52.08	-13.00	39.08
2472.600	H	60.73	-40.05	9.38	1.00	-31.67	-13.00	18.67
2472.600	V	58.08	-42.65	9.38	1.00	-34.27	-13.00	21.27
3296.800	H	42.75	-53.93	10.32	1.15	-44.76	-13.00	31.76
3296.800	V	40.57	-55.87	10.32	1.15	-46.70	-13.00	33.70
GSM 850 Frequency:836.6MHz								
755.39	H	26.95	-45.25	0.00	0.52	-45.77	-13.00	32.77
872.18	V	36.33	-30.25	0.00	0.59	-30.84	-13.00	17.84
1673.200	H	44.78	-59.53	8.71	0.85	-51.67	-13.00	38.67
1673.200	V	41.82	-62.59	8.71	0.85	-54.73	-13.00	41.73
2509.800	H	51.28	-49.33	9.42	1.01	-40.92	-13.00	27.92
2509.800	V	52.85	-47.77	9.42	1.01	-39.36	-13.00	26.36
3346.400	H	41.01	-56.16	10.34	1.16	-46.98	-13.00	33.98
3346.400	V	43.82	-53.21	10.34	1.16	-44.03	-13.00	31.03
GSM 850 Frequency:848.8MHz								
893.86	H	28.68	-40.25	0.00	0.66	-40.91	-13.00	27.91
640.61	V	42.05	-28.94	0.00	0.52	-29.46	-13.00	16.46
1697.600	H	47.89	-56.40	8.74	0.90	-48.56	-13.00	35.56
1697.600	V	41.41	-63.01	8.74	0.90	-55.17	-13.00	42.17
2546.400	H	59.59	-40.74	9.47	1.01	-32.28	-13.00	19.28
2546.400	V	51.24	-49.04	9.47	1.01	-40.58	-13.00	27.58
3395.200	H	39.11	-58.58	10.36	1.19	-49.41	-13.00	36.41
3395.200	V	43.07	-54.59	10.36	1.19	-45.42	-13.00	32.42

PCS Band (30MHz-20GHz)

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
144.33	H	54.54	-57.61	0.00	0.22	-57.83	-13.00	44.83
86.20	V	53.54	-55.51	0.00	0.17	-55.68	-13.00	42.68
3700.400	H	39.31	-58.01	10.60	1.25	-48.66	-13.00	35.66
3700.400	V	47.13	-50.17	10.60	1.25	-40.82	-13.00	27.82
5550.600	H	49.71	-43.55	11.44	1.49	-33.60	-13.00	20.60
5550.600	V	52.13	-40.97	11.44	1.49	-31.02	-13.00	18.02
GSM 1900 Frequency:1880MHz								
145.35	H	53.62	-58.49	0.00	0.23	-58.72	-13.00	45.72
86.50	V	53.01	-56.06	0.00	0.17	-56.23	-13.00	43.23
3760.000	H	41.57	-54.84	10.66	1.24	-45.42	-13.00	32.42
3760.000	V	44.83	-51.46	10.66	1.24	-42.04	-13.00	29.04
5640.000	H	50.33	-43.12	11.33	1.54	-33.33	-13.00	20.33
5640.000	V	43.85	-49.48	11.33	1.54	-39.69	-13.00	26.69
GSM 1900 Frequency:1909.8MHz								
142.82	H	52.27	-59.93	0.00	0.22	-60.15	-13.00	47.15
85.29	V	52.55	-56.43	0.00	0.17	-56.60	-13.00	43.60
3819.600	H	38.43	-57.43	10.72	1.29	-48.00	-13.00	35.00
3819.600	V	45.19	-50.53	10.72	1.29	-41.10	-13.00	28.10
5729.400	H	42.66	-50.82	11.22	1.59	-41.19	-13.00	28.19
5729.400	V	51.42	-41.94	11.22	1.59	-32.31	-13.00	19.31

WCDMA Band 2(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
WCDMA Band II, Frequency:1852.4 MHz								
142.32	H	51.51	-60.71	0.00	0.21	-60.92	-13.00	47.92
86.20	V	53.93	-55.12	0.00	0.17	-55.29	-13.00	42.29
3704.800	H	35.46	-61.80	10.60	1.25	-52.45	-13.00	39.45
3704.800	V	36.02	-61.21	10.60	1.25	-51.86	-13.00	38.86
5557.200	H	43.44	-49.84	11.43	1.49	-39.90	-13.00	26.90
5557.200	V	41.17	-51.96	11.43	1.49	-42.02	-13.00	29.02
WCDMA Band II, Frequency:1880 MHz								
143.32	H	51.04	-61.14	0.00	0.22	-61.36	-13.00	48.36
85.90	V	50.70	-58.32	0.00	0.17	-58.49	-13.00	45.49
3760.000	H	36.44	-59.97	10.66	1.24	-50.55	-13.00	37.55
3760.000	V	35.21	-61.08	10.66	1.24	-51.66	-13.00	38.66
5640.000	H	43.57	-49.88	11.33	1.54	-40.09	-13.00	27.09
5640.000	V	42.71	-50.62	11.33	1.54	-40.83	-13.00	27.83
WCDMA Band II, Frequency:1907.6MHz								
141.33	H	51.78	-60.47	0.00	0.22	-60.69	-13.00	47.69
85.60	V	52.12	-56.88	0.00	0.17	-57.05	-13.00	44.05
3815.200	H	35.52	-60.33	10.72	1.29	-50.90	-13.00	37.90
3815.200	V	36.29	-59.40	10.72	1.29	-49.97	-13.00	36.97
5722.800	H	45.17	-48.32	11.23	1.58	-38.67	-13.00	25.67
5722.800	V	43.86	-49.49	11.23	1.58	-39.84	-13.00	26.84

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				
143.33	H	50.15	-62.03	0.00	0.22	-62.25	-13.00	49.25
86.81	V	50.00	-59.09	0.00	0.17	-59.26	-13.00	46.26
3424.800	H	35.12	-62.65	10.37	1.17	-53.45	-13.00	40.45
3424.800	V	35.56	-62.18	10.37	1.17	-52.98	-13.00	39.98
5137.200	H	36.85	-56.77	11.28	1.46	-46.95	-13.00	33.95
5137.200	V	37.02	-56.48	11.28	1.46	-46.66	-13.00	33.66
Frequency:			1732.6	MHz				
143.33	H	50.13	-62.05	0.00	0.22	-62.27	-13.00	49.27
86.20	V	47.63	-61.42	0.00	0.17	-61.59	-13.00	48.59
3465.200	H	36.33	-61.48	10.39	1.15	-52.24	-13.00	39.24
3465.200	V	36.12	-61.65	10.39	1.15	-52.41	-13.00	39.41
5197.800	H	35.78	-58.35	11.32	1.44	-48.47	-13.00	35.47
5197.800	V	36.01	-57.97	11.32	1.44	-48.09	-13.00	35.09
Frequency:			1752.6	MHz				
141.33	H	49.33	-62.92	0.00	0.22	-63.14	-13.00	50.14
85.30	V	48.62	-60.36	0.00	0.17	-60.53	-13.00	47.53
3505.200	H	35.85	-61.98	10.41	1.18	-52.75	-13.00	39.75
3505.200	V	36.47	-61.30	10.41	1.18	-52.07	-13.00	39.07
5257.800	H	36.59	-57.14	11.35	1.47	-47.26	-13.00	34.26
5257.800	V	36.11	-57.40	11.35	1.47	-47.52	-13.00	34.52

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								
875.25	H	26.83	-42.57	0.00	0.60	-43.17	-13.00	30.17
89.91	V	23.91	-53.84	0.00	0.18	-54.02	-13.00	41.02
1652.800	H	35.78	-68.55	8.68	0.81	-60.68	-13.00	47.68
1652.800	V	39.45	-64.96	8.68	0.81	-57.09	-13.00	44.09
2479.200	H	36.44	-64.32	9.39	1.01	-55.94	-13.00	42.94
2479.200	V	41.96	-58.77	9.39	1.01	-50.39	-13.00	37.39
3305.600	H	42.89	-53.84	10.32	1.15	-44.67	-13.00	31.67
3305.600	V	39.52	-56.98	10.32	1.15	-47.81	-13.00	34.81
WCDMA Band 5 Frequency:836.6MHz								
881.36	H	24.41	-44.83	0.00	0.59	-45.42	-13.00	32.42
884.45	V	35.39	-30.99	0.00	0.60	-31.59	-13.00	18.59
1673.200	H	38.27	-66.04	8.71	0.85	-58.18	-13.00	45.18
1673.200	V	41.50	-62.91	8.71	0.85	-55.05	-13.00	42.05
2509.800	H	41.11	-59.50	9.42	1.01	-51.09	-13.00	38.09
2509.800	V	38.26	-62.36	9.42	1.01	-53.95	-13.00	40.95
3346.400	H	46.70	-50.47	10.34	1.16	-41.29	-13.00	28.29
3346.400	V	40.35	-56.68	10.34	1.16	-47.50	-13.00	34.50
WCDMA Band 5 Frequency:846.6MHz								
893.81	H	25.72	-43.21	0.00	0.66	-43.87	-13.00	30.87
890.73	V	38.26	-28.02	0.00	0.64	-28.66	-13.00	15.66
1693.200	H	35.41	-68.89	8.73	0.89	-61.05	-13.00	48.05
1693.200	V	35.53	-68.89	8.73	0.89	-61.05	-13.00	48.05
2539.800	H	36.25	-64.13	9.46	1.01	-55.68	-13.00	42.68
2539.800	V	37.78	-62.56	9.46	1.01	-54.11	-13.00	41.11
3386.400	H	48.55	-49.04	10.35	1.18	-39.87	-13.00	26.87
3386.400	V	41.87	-55.67	10.35	1.18	-46.50	-13.00	33.50

LTE Bands:

(The Worst modulation and bandwidth was below)

LTE Band 2(30MHz-20GHz) :

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency:1850.7 MHz								
143.83	H	47.63	-64.54	0.00	0.22	-64.76	-13.00	51.76
86.81	V	50.56	-58.53	0.00	0.17	-58.70	-13.00	45.70
3701.400	H	35.25	-62.06	10.60	1.25	-52.71	-13.00	39.71
3701.400	V	35.41	-61.88	10.60	1.25	-52.53	-13.00	39.53
5552.100	H	45.18	-48.09	11.44	1.49	-38.14	-13.00	25.14
5552.100	V	44.86	-48.24	11.44	1.49	-38.29	-13.00	25.29
QPSK, 1.4MHz, Frequency:1880 MHz								
140.84	H	43.42	-68.85	0.00	0.22	-69.07	-13.00	56.07
87.71	V	49.87	-59.29	0.00	0.17	-59.46	-13.00	46.46
3760.000	H	36.44	-59.97	10.66	1.24	-50.55	-13.00	37.55
3760.000	V	35.12	-61.17	10.66	1.24	-51.75	-13.00	38.75
5640.000	H	47.27	-46.18	11.33	1.54	-36.39	-13.00	23.39
5640.000	V	45.73	-47.60	11.33	1.54	-37.81	-13.00	24.81
QPSK, 1.4MHz, Frequency:1909.3 MHz								
143.33	H	43.21	-68.97	0.00	0.22	-69.19	-13.00	56.19
88.96	V	50.92	-58.33	0.00	0.18	-58.51	-13.00	45.51
3818.600	H	36.78	-59.08	10.72	1.29	-49.65	-13.00	36.65
3818.600	V	35.04	-60.67	10.72	1.29	-51.24	-13.00	38.24
5727.900	H	44.46	-49.02	11.23	1.59	-39.38	-13.00	26.38
5727.900	V	42.58	-50.78	11.23	1.59	-41.14	-13.00	28.14

LTE Band 4(30MHz-20GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB μ V)	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				
143.33	H	43.46	-68.72	0.00	0.22	-68.94	-13.00	55.94
86.20	V	50.77	-58.28	0.00	0.17	-58.45	-13.00	45.45
3421.400	H	36.44	-61.32	10.37	1.17	-52.12	-13.00	39.12
3421.400	V	35.78	-61.95	10.37	1.17	-52.75	-13.00	39.75
5132.100	H	37.21	-56.36	11.28	1.47	-46.55	-13.00	33.55
5132.100	V	36.89	-56.57	11.28	1.47	-46.76	-13.00	33.76
1.4MHz QPSK, Frequency:			1732.5	MHz				
144.84	H	41.44	-70.69	0.00	0.23	-70.92	-13.00	57.92
88.65	V	42.13	-67.10	0.00	0.18	-67.28	-13.00	54.28
3465.000	H	36.12	-61.69	10.39	1.15	-52.45	-13.00	39.45
3465.000	V	35.78	-61.99	10.39	1.15	-52.75	-13.00	39.75
5197.500	H	38.25	-55.88	11.32	1.44	-46.00	-13.00	33.00
5197.500	V	39.67	-54.31	11.32	1.44	-44.43	-13.00	31.43
1.4MHz QPSK, Frequency:			1754.3	MHz				
142.32	H	43.00	-69.22	0.00	0.21	-69.43	-13.00	56.43
88.34	V	41.36	-67.85	0.00	0.17	-68.02	-13.00	55.02
3508.600	H	35.78	-62.04	10.41	1.19	-52.82	-13.00	39.82
3508.600	V	36.45	-61.31	10.41	1.19	-52.09	-13.00	39.09
5262.900	H	38.82	-54.88	11.36	1.47	-44.99	-13.00	31.99
5262.900	V	39.01	-54.46	11.36	1.47	-44.57	-13.00	31.57

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								
726.81	H	20.94	-51.84	0.00	0.52	-52.36	-13.00	39.36
872.18	V	27.52	-39.06	0.00	0.59	-39.65	-13.00	26.65
1649.400	H	41.76	-62.57	8.68	0.80	-54.69	-13.00	41.69
1649.400	V	42.67	-61.74	8.68	0.80	-53.86	-13.00	40.86
2474.100	H	49.18	-51.60	9.38	1.00	-43.22	-13.00	30.22
2474.100	V	50.30	-50.43	9.38	1.00	-42.05	-13.00	29.05
3298.800	H	47.29	-49.39	10.32	1.15	-40.22	-13.00	27.22
3298.800	V	43.88	-52.56	10.32	1.15	-43.39	-13.00	30.39
QPSK, 1.4MHz, Frequency: 836.5 MHz								
897.00	H	21.48	-47.37	0.00	0.65	-48.02	-13.00	35.02
884.50	V	26.60	-39.78	0.00	0.60	-40.38	-13.00	27.38
1673.000	H	43.95	-60.36	8.71	0.85	-52.50	-13.00	39.50
1673.000	V	41.51	-62.90	8.71	0.85	-55.04	-13.00	42.04
2509.500	H	45.20	-55.41	9.42	1.01	-47.00	-13.00	34.00
2509.500	V	47.01	-53.61	9.42	1.01	-45.20	-13.00	32.20
3346.000	H	48.80	-48.36	10.34	1.16	-39.18	-13.00	26.18
3346.000	V	46.24	-50.78	10.34	1.16	-41.60	-13.00	28.60
QPSK, 1.4MHz, Frequency: 848.3 MHz								
996.50	H	21.08	-45.33	0.00	0.64	-45.97	-13.00	32.97
893.86	V	28.05	-38.18	0.00	0.66	-38.84	-13.00	25.84
1696.600	H	44.38	-59.91	8.74	0.89	-52.06	-13.00	39.06
1696.600	V	42.04	-62.38	8.74	0.89	-54.53	-13.00	41.53
2544.900	H	41.01	-59.33	9.47	1.01	-50.87	-13.00	37.87
2544.900	V	45.68	-54.62	9.47	1.01	-46.16	-13.00	33.16
3393.200	H	51.62	-46.05	10.36	1.19	-36.88	-13.00	23.88
3393.200	V	47.03	-50.60	10.36	1.19	-41.43	-13.00	28.43

LTE Band 12(30MHz-10GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 1.4MHz, Frequency: 699.7 MHz								
359.43	H	19.21	-59.28	0.00	0.37	-59.65	-13.00	46.65
729.36	V	28.01	-41.27	0.00	0.53	-41.80	-13.00	28.80
1399.400	H	45.72	-57.98	8.22	0.71	-50.47	-13.00	37.47
1399.400	V	44.28	-59.47	8.22	0.71	-51.96	-13.00	38.96
2099.100	H	50.91	-50.97	9.16	0.91	-42.72	-13.00	29.72
2099.100	V	51.65	-50.18	9.16	0.91	-41.93	-13.00	28.93
2798.800	H	36.45	-63.48	9.88	1.04	-54.64	-13.00	41.64
2798.800	V	35.74	-64.06	9.88	1.04	-55.22	-13.00	42.22
QPSK, 1.4MHz, Frequency:707.5 MHz								
726.81	H	21.10	-51.68	0.00	0.52	-52.20	-13.00	39.20
737.07	V	27.12	-41.99	0.00	0.54	-42.53	-13.00	29.53
1415.000	H	43.95	-59.72	8.26	0.72	-52.18	-13.00	39.18
1415.000	V	44.65	-59.07	8.26	0.72	-51.53	-13.00	38.53
2122.500	H	50.32	-51.67	9.17	0.92	-43.42	-13.00	30.42
2122.500	V	53.44	-48.53	9.17	0.92	-40.28	-13.00	27.28
2830.000	H	36.01	-63.79	9.93	1.06	-54.92	-13.00	41.92
2830.000	V	35.41	-64.32	9.93	1.06	-55.45	-13.00	42.45
QPSK, 1.4MHz, Frequency: 715.3 MHz								
785.09	H	21.09	-50.51	0.00	0.56	-51.07	-13.00	38.07
747.48	V	26.19	-42.69	0.00	0.55	-43.24	-13.00	30.24
1430.600	H	44.21	-59.42	8.31	0.73	-51.84	-13.00	38.84
1430.600	V	45.12	-58.57	8.31	0.73	-50.99	-13.00	37.99
2145.900	H	51.41	-50.69	9.19	0.93	-42.43	-13.00	29.43
2145.900	V	52.21	-49.90	9.19	0.93	-41.64	-13.00	28.64
2861.200	H	37.87	-61.78	9.98	1.07	-52.87	-13.00	39.87
2861.200	V	36.02	-63.65	9.98	1.07	-54.74	-13.00	41.74

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								
721.72	H	21.46	-51.42	0.00	0.50	-51.92	-13.00	38.92
524.73	V	20.85	-50.77	0.00	0.42	-51.19	-13.00	38.19
1413.000	H	36.01	-67.66	8.26	0.72	-60.12	-13.00	47.12
1413.000	V	38.11	-65.61	8.26	0.72	-58.07	-13.00	45.07
2119.500	H	38.12	-63.85	9.17	0.92	-55.60	-13.00	42.60
2119.500	V	39.24	-62.71	9.17	0.92	-54.46	-13.00	41.46
2826.000	H	35.78	-64.03	9.92	1.06	-55.17	-13.00	42.17
2826.000	V	36.27	-63.47	9.92	1.06	-54.61	-13.00	41.61
QPSK, 5MHz, Frequency: 710 MHz								
790.62	H	21.32	-50.17	0.00	0.61	-50.78	-13.00	37.78
266.88	V	19.63	-59.48	0.00	0.31	-59.79	-13.00	46.79
1420.000	H	36.45	-67.21	8.28	0.73	-59.66	-13.00	46.66
1420.000	V	37.45	-66.26	8.28	0.73	-58.71	-13.00	45.71
2130.000	H	39.10	-62.92	9.18	0.92	-54.66	-13.00	41.66
2130.000	V	40.12	-61.89	9.18	0.92	-53.63	-13.00	40.63
2840.000	H	35.85	-63.90	9.94	1.06	-55.02	-13.00	42.02
2840.000	V	36.28	-63.43	9.94	1.06	-54.55	-13.00	41.55
QPSK, 5MHz, Frequency: 713.5 MHz								
636.13	H	20.79	-52.87	0.00	0.52	-53.39	-13.00	40.39
188.01	V	20.61	-57.58	0.00	0.26	-57.84	-13.00	44.84
1427.000	H	36.10	-67.54	8.30	0.73	-59.97	-13.00	46.97
1427.000	V	35.69	-68.00	8.30	0.73	-60.43	-13.00	47.43
2140.500	H	38.78	-63.29	9.18	0.93	-55.04	-13.00	42.04
2140.500	V	37.03	-65.05	9.18	0.93	-56.80	-13.00	43.80
2854.000	H	35.63	-64.06	9.97	1.07	-55.16	-13.00	42.16
2854.000	V	36.01	-63.67	9.97	1.07	-54.77	-13.00	41.77

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								
86.20	H	45.71	-66.09	0.00	0.17	-66.26	-13.00	53.26
88.65	V	49.72	-59.51	0.00	0.18	-59.69	-13.00	46.69
3701.400	H	36.77	-60.54	10.60	1.25	-51.19	-13.00	38.19
3701.400	V	36.25	-61.04	10.60	1.25	-51.69	-13.00	38.69
5552.100	H	45.19	-48.08	11.44	1.49	-38.13	-13.00	25.13
5552.100	V	42.98	-50.12	11.44	1.49	-40.17	-13.00	27.17
QPSK, 1.4MHz, Frequency: 1882.5 MHz								
142.82	H	44.81	-67.39	0.00	0.22	-67.61	-13.00	54.61
86.81	V	49.93	-59.16	0.00	0.17	-59.33	-13.00	46.33
3765.000	H	36.34	-59.99	10.67	1.25	-50.57	-13.00	37.57
3765.000	V	35.12	-61.09	10.67	1.25	-51.67	-13.00	38.67
5647.500	H	44.78	-48.67	11.32	1.55	-38.90	-13.00	25.90
5647.500	V	43.56	-49.77	11.32	1.55	-40.00	-13.00	27.00
QPSK, 1.4MHz, Frequency: 1914.3 MHz								
144.33	H	44.37	-67.78	0.00	0.22	-68.00	-13.00	55.00
88.34	V	48.39	-60.82	0.00	0.17	-60.99	-13.00	47.99
3828.600	H	35.58	-60.32	10.73	1.28	-50.87	-13.00	37.87
3828.600	V	36.24	-59.53	10.73	1.28	-50.08	-13.00	37.08
5742.900	H	45.08	-48.40	11.21	1.60	-38.79	-13.00	25.79
5742.900	V	43.41	-49.95	11.21	1.60	-40.34	-13.00	27.34

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								
625.08	H	21.76	-51.96	0.00	0.48	-52.44	-13.00	39.44
89.90	V	22.45	-55.30	0.00	0.18	-55.48	-13.00	42.48
1629.400	H	49.20	-55.15	8.66	0.81	-47.30	-13.00	34.30
1629.400	V	50.16	-54.25	8.66	0.81	-46.40	-13.00	33.40
2444.100	H	46.31	-54.58	9.37	1.00	-46.21	-13.00	33.21
2444.100	V	57.23	-43.52	9.37	1.00	-35.15	-13.00	22.15
3258.800	H	41.60	-55.26	10.30	1.17	-46.13	-13.00	33.13
3258.800	V	41.07	-55.54	10.30	1.17	-46.41	-13.00	33.41
QPSK, 1.4MHz, Frequency:831.5 MHz								
719.31	H	21.37	-51.56	0.00	0.49	-52.05	-13.00	39.05
90.43	V	21.06	-56.61	0.00	0.18	-56.79	-13.00	43.79
1663.000	H	50.97	-53.35	8.70	0.83	-45.48	-13.00	32.48
1663.000	V	44.68	-59.73	8.70	0.83	-51.86	-13.00	38.86
2494.500	H	52.26	-48.44	9.40	1.01	-40.05	-13.00	27.05
2494.500	V	55.69	-45.02	9.40	1.01	-36.63	-13.00	23.63
3326.000	H	45.75	-51.20	10.33	1.16	-42.03	-13.00	29.03
3326.000	V	42.01	-54.76	10.33	1.16	-45.59	-13.00	32.59
QPSK, 1.4MHz, Frequency: 848.3 MHz								
726.81	H	22.38	-50.40	0.00	0.52	-50.92	-13.00	37.92
163.46	V	19.61	-57.39	0.00	0.24	-57.63	-13.00	44.63
1696.600	H	43.90	-60.39	8.74	0.89	-52.54	-13.00	39.54
1696.600	V	43.84	-60.58	8.74	0.89	-52.73	-13.00	39.73
2544.900	H	50.58	-49.76	9.47	1.01	-41.30	-13.00	28.30
2544.900	V	50.78	-49.52	9.47	1.01	-41.06	-13.00	28.06
3393.200	H	52.48	-45.19	10.36	1.19	-36.02	-13.00	23.02
3393.200	V	49.53	-48.10	10.36	1.19	-38.93	-13.00	25.93

LTE Band 41(30MHz-26.5GHz):

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, 5MHz, Frequency: 2498.5 MHz								
207.85	H	36.16	-76.57	0.00	0.26	-76.83	-25.00	51.83
85.30	V	43.42	-65.56	0.00	0.17	-65.73	-25.00	40.73
4997.000	H	36.63	-56.31	11.20	1.48	-46.59	-25.00	21.59
4997.000	V	37.11	-55.69	11.20	1.48	-45.97	-25.00	20.97
7495.500	H	35.56	-54.23	10.90	1.94	-45.27	-25.00	20.27
7495.500	V	36.34	-53.95	10.90	1.94	-44.99	-25.00	19.99
QPSK, 5MHz, Frequency: 2593 MHz								
212.27	H	35.41	-77.24	0.00	0.26	-77.50	-25.00	52.50
84.70	V	40.61	-68.32	0.00	0.17	-68.49	-25.00	43.49
5186.000	H	36.62	-57.41	11.31	1.44	-47.54	-25.00	22.54
5186.000	V	35.77	-58.12	11.31	1.44	-48.25	-25.00	23.25
7779.000	H	36.39	-53.10	10.84	1.99	-44.25	-25.00	19.25
7779.000	V	36.45	-53.49	10.84	1.99	-44.64	-25.00	19.64
QPSK, 5MHz, Frequency: 2687.5 MHz								
225.31	H	36.07	-76.32	0.00	0.28	-76.60	-25.00	51.60
140.84	V	40.99	-67.02	0.00	0.22	-67.24	-25.00	42.24
5375.000	H	36.10	-57.41	11.43	1.49	-47.47	-25.00	22.47
5375.000	V	36.59	-56.91	11.43	1.49	-46.97	-25.00	21.97
8062.500	H	35.43	-52.79	10.81	2.12	-44.10	-25.00	19.10
8062.500	V	35.89	-52.83	10.81	2.12	-44.14	-25.00	19.14

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					
144.33	H	48.63	-63.52	0.00	0.22	-63.74	-13.00	50.74
88.96	V	51.23	-58.02	0.00	0.18	-58.20	-13.00	45.20
3421.400	H	39.81	-57.95	10.37	1.17	-48.75	-13.00	35.75
3421.400	V	37.45	-60.28	10.37	1.17	-51.08	-13.00	38.08
5132.100	H	43.76	-49.81	11.28	1.47	-40.00	-13.00	27.00
5132.100	V	45.31	-48.15	11.28	1.47	-38.34	-13.00	25.34
1.4MHz QPSK, Frequency:			1745 MHz					
145.35	H	46.99	-65.12	0.00	0.23	-65.35	-13.00	52.35
89.28	V	53.36	-55.92	0.00	0.18	-56.10	-13.00	43.10
3490.000	H	36.47	-61.37	10.40	1.17	-52.14	-13.00	39.14
3490.000	V	35.45	-62.33	10.40	1.17	-53.10	-13.00	40.10
5235.000	H	43.82	-50.08	11.34	1.46	-40.20	-13.00	27.20
5235.000	V	42.05	-51.66	11.34	1.46	-41.78	-13.00	28.78
1.4MHz QPSK, Frequency:			1779.3 MHz					
142.82	H	47.93	-64.27	0.00	0.22	-64.49	-13.00	51.49
89.59	V	50.99	-58.31	0.00	0.18	-58.49	-13.00	45.49
3558.600	H	37.44	-60.23	10.46	1.22	-50.99	-13.00	37.99
3558.600	V	36.56	-61.01	10.46	1.22	-51.77	-13.00	38.77
5337.900	H	42.78	-50.69	11.40	1.47	-40.76	-13.00	27.76
5337.900	V	41.16	-52.17	11.40	1.47	-42.24	-13.00	29.24

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					
958.97	H	20.59	-46.74	0.00	0.62	-47.36	-13.00	34.36
89.28	V	22.44	-55.28	0.00	0.18	-55.46	-13.00	42.46
1331.000	H	36.45	-66.58	8.03	0.76	-59.31	-13.00	46.31
1331.000	V	35.78	-67.58	8.03	0.76	-60.31	-13.00	47.31
1996.500	H	38.42	-63.74	9.10	0.89	-55.53	-13.00	42.53
1996.500	V	37.46	-64.08	9.10	0.89	-55.87	-13.00	42.87
2662.000	H	36.55	-63.41	9.66	1.06	-54.81	-13.00	41.81
2662.000	V	37.10	-62.78	9.66	1.06	-54.18	-13.00	41.18
5MHz QPSK, Frequency:			680.5 MHz					
570.61	H	20.76	-53.68	0.00	0.46	-54.14	-13.00	41.14
90.54	V	22.86	-54.79	0.00	0.18	-54.97	-13.00	41.97
1361.000	H	37.47	-65.86	8.11	0.77	-58.52	-13.00	45.52
1361.000	V	36.59	-66.94	8.11	0.77	-59.60	-13.00	46.60
2041.500	H	39.02	-63.01	9.12	0.91	-54.80	-13.00	41.80
2041.500	V	37.79	-63.85	9.12	0.91	-55.64	-13.00	42.64
2722.000	H	36.56	-63.41	9.76	1.05	-54.70	-13.00	41.70
2722.000	V	38.10	-61.81	9.76	1.05	-53.10	-13.00	40.10
5MHz QPSK, Frequency:			695.5 MHz					
524.84	H	21.25	-54.09	0.00	0.42	-54.51	-13.00	41.51
88.65	V	21.68	-56.00	0.00	0.18	-56.18	-13.00	43.18
1391.000	H	36.77	-66.85	8.19	0.72	-59.38	-13.00	46.38
1391.000	V	37.12	-66.58	8.19	0.72	-59.11	-13.00	46.11
2086.500	H	38.52	-63.39	9.15	0.91	-55.15	-13.00	42.15
2086.500	V	37.44	-64.35	9.15	0.91	-56.11	-13.00	43.11
2782.000	H	36.61	-63.33	9.85	1.05	-54.53	-13.00	41.53
2782.000	V	37.03	-62.80	9.85	1.05	-54.00	-13.00	41.00

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 =====