

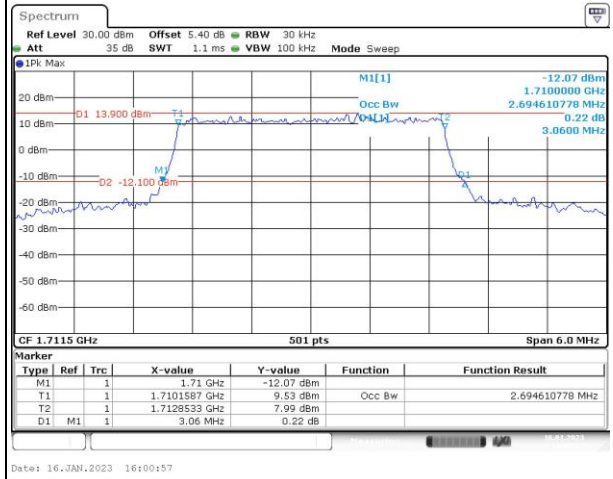
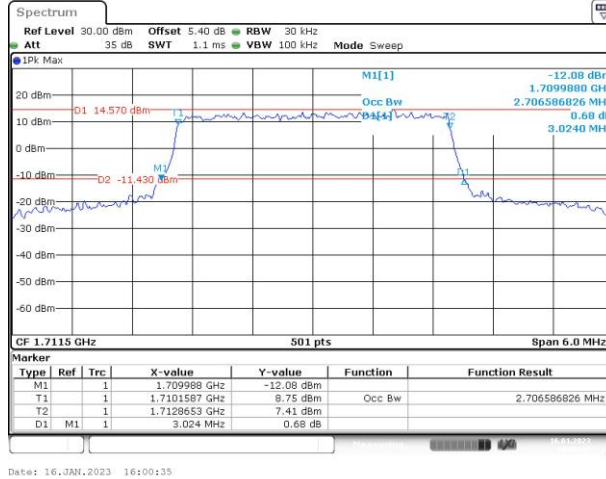
Occupied Bandwidth

Channel

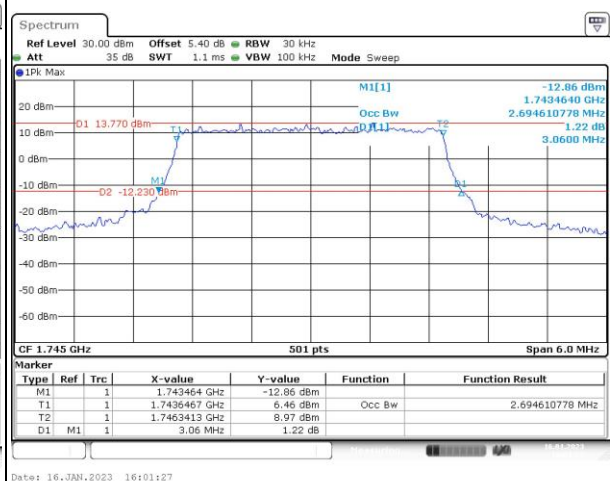
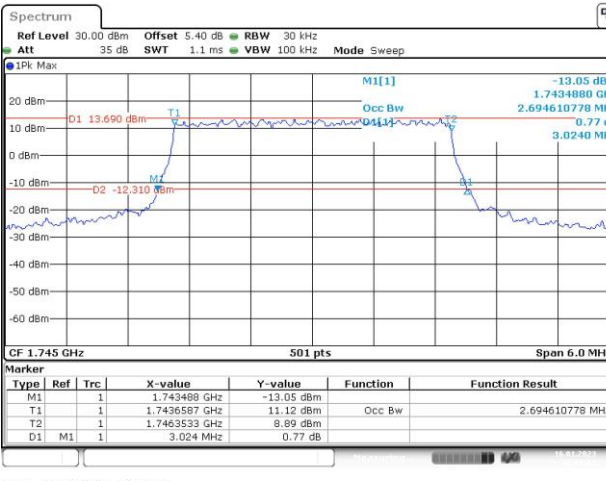
3MHz Bandwidth QPSK

3MHz Bandwidth 16QAM

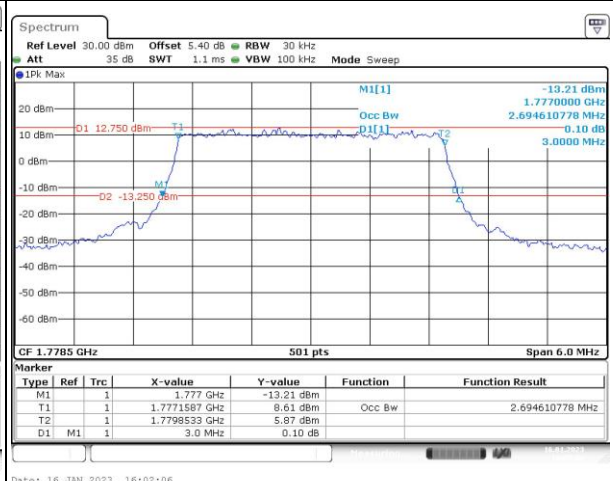
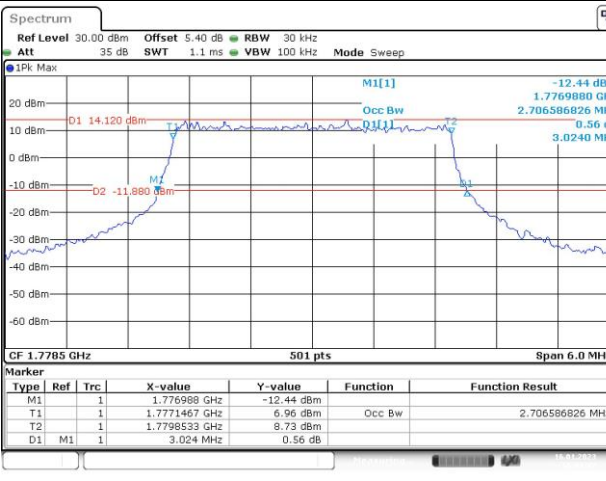
Lowest



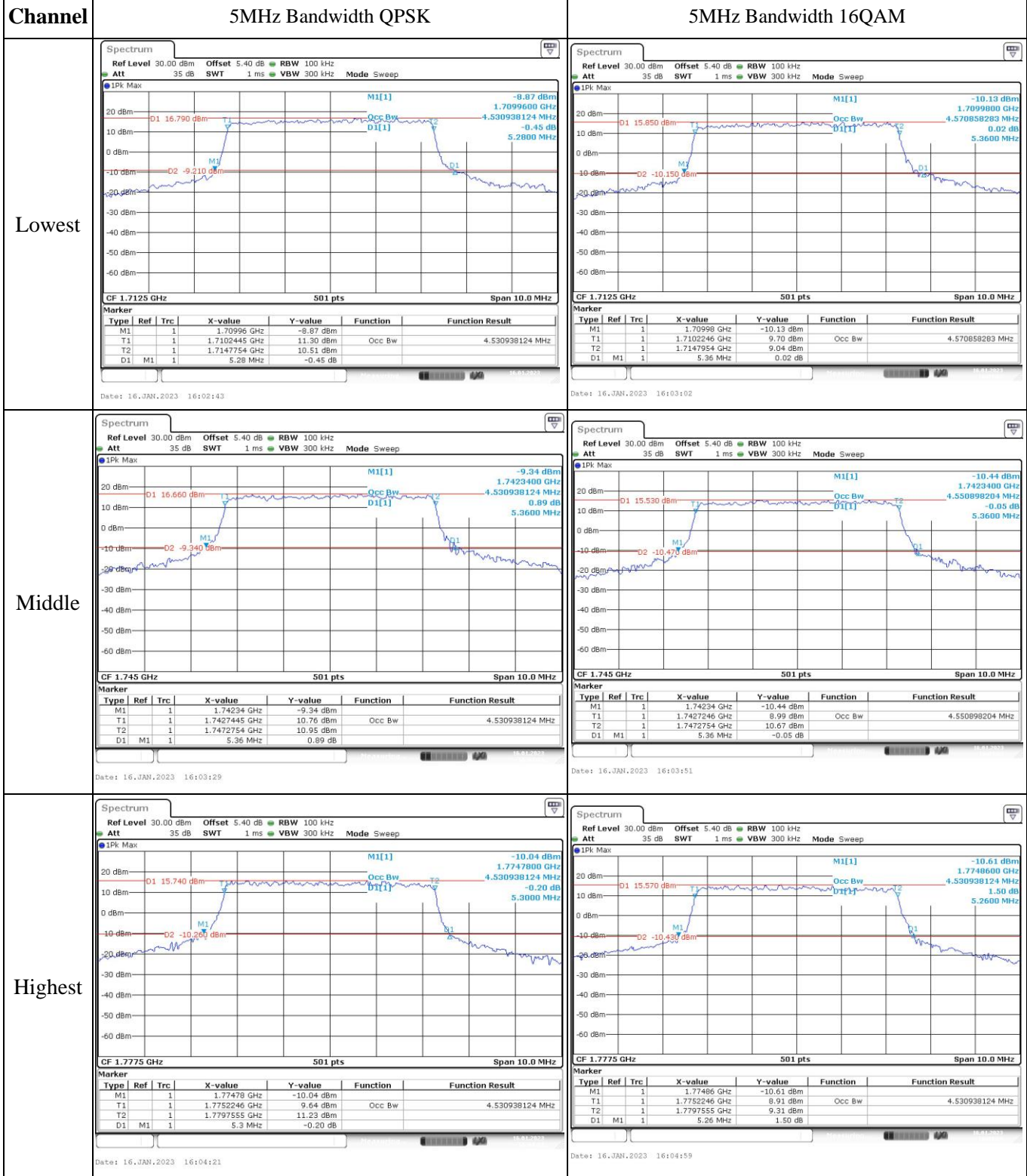
Middle



Highest



Occupied Bandwidth



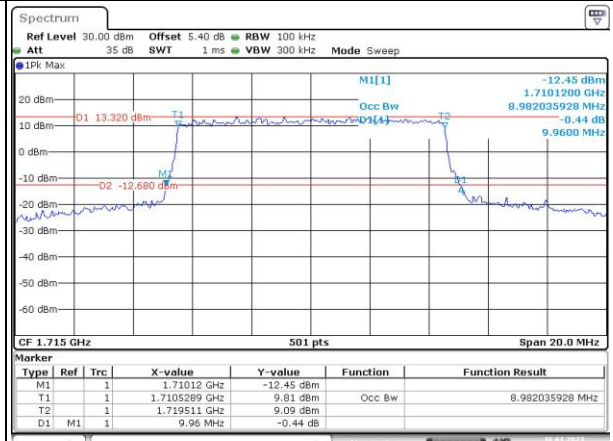
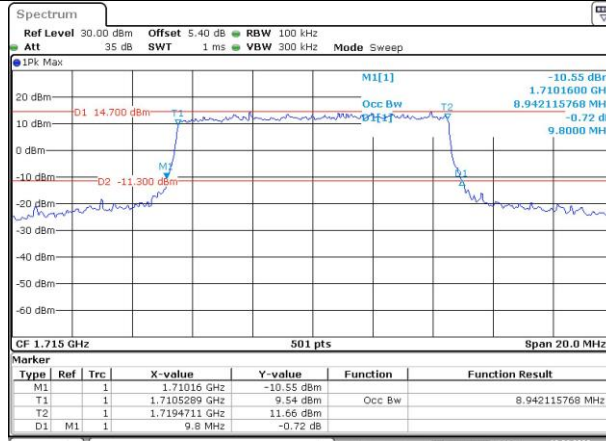
Occupied Bandwidth

Channel

10MHz Bandwidth QPSK

10MHz Bandwidth 16QAM

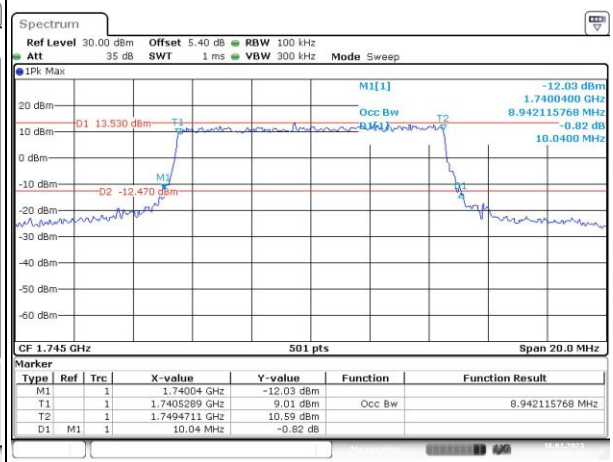
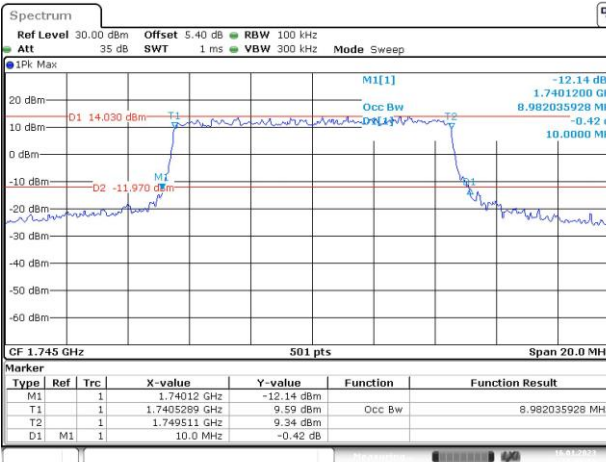
Lowest



Date: 16.JAN.2023 16:05:30

Date: 16.JAN.2023 16:05:56

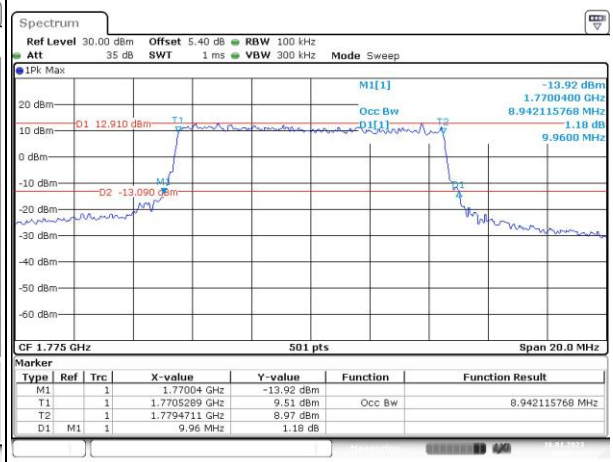
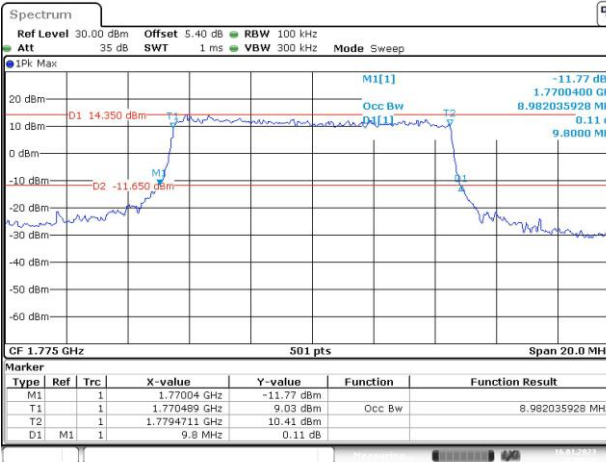
Middle



Date: 16.JAN.2023 16:06:19

Date: 16.JAN.2023 16:06:42

Highest



Date: 16.JAN.2023 16:07:18

Date: 16.JAN.2023 16:07:40

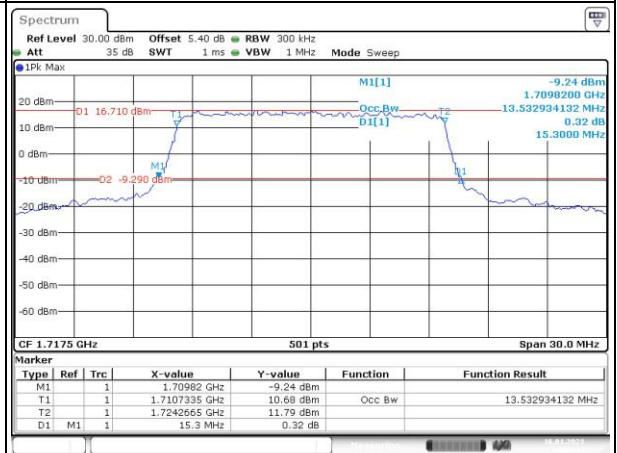
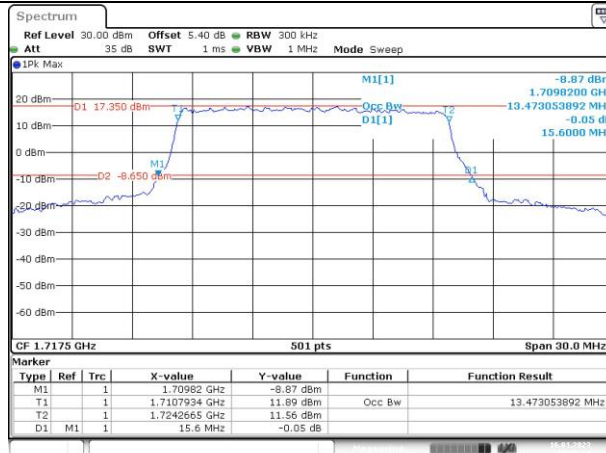
Occupied Bandwidth

Channel

15MHz Bandwidth QPSK

15MHz Bandwidth 16QAM

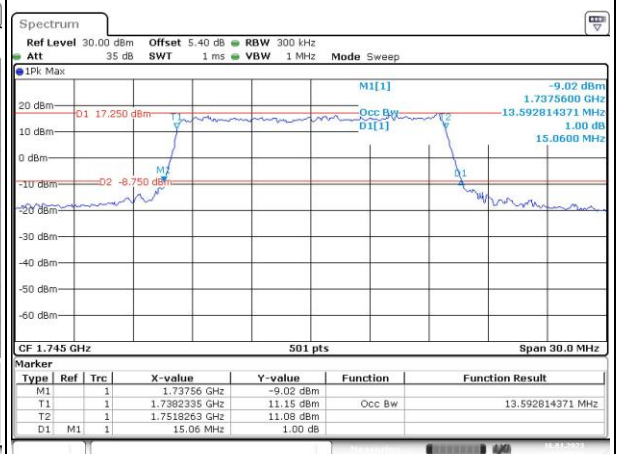
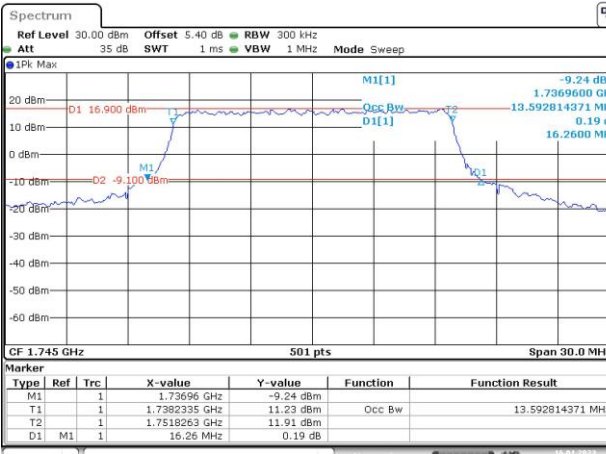
Lowest



Date: 16.JAN.2023 16:08:15

Date: 16.JAN.2023 16:08:41

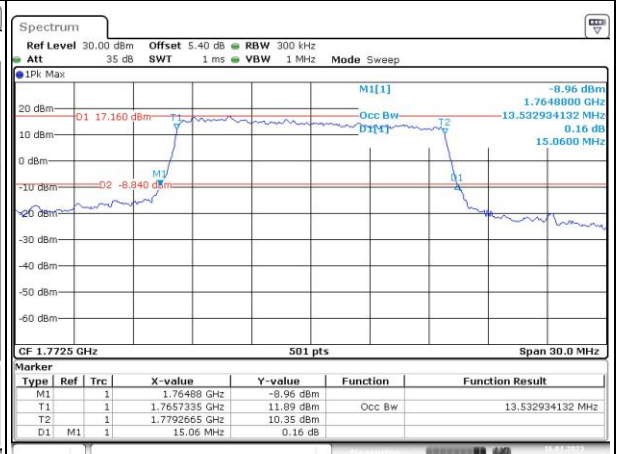
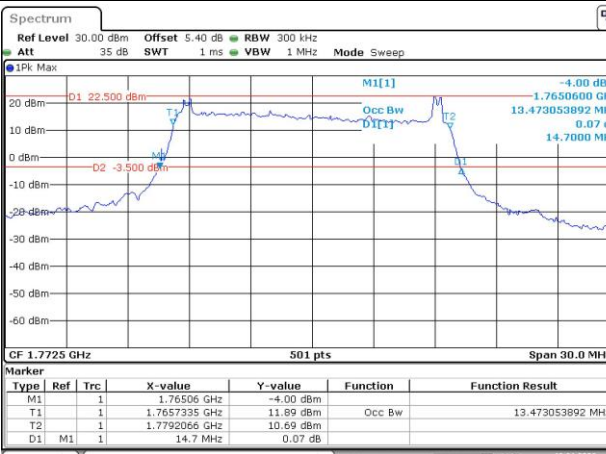
Middle



Date: 16.JAN.2023 16:09:09

Date: 16.JAN.2023 16:09:29

Highest



Date: 16.JAN.2023 16:09:54

Date: 16.JAN.2023 16:10:18

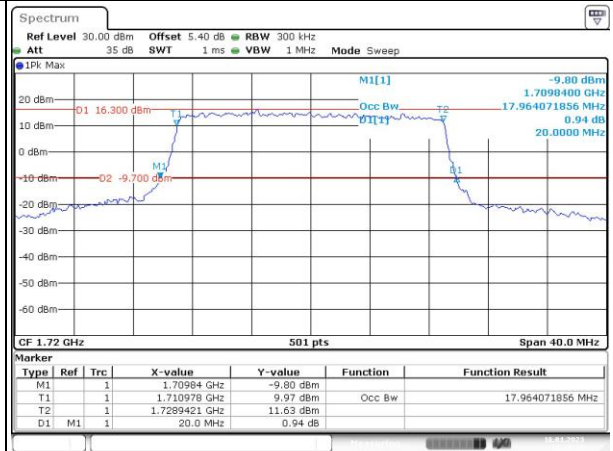
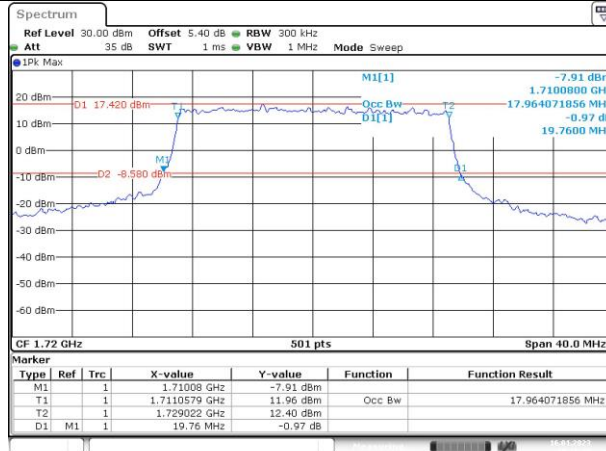
Occupied Bandwidth

Channel

20MHz Bandwidth QPSK

20MHz Bandwidth 16QAM

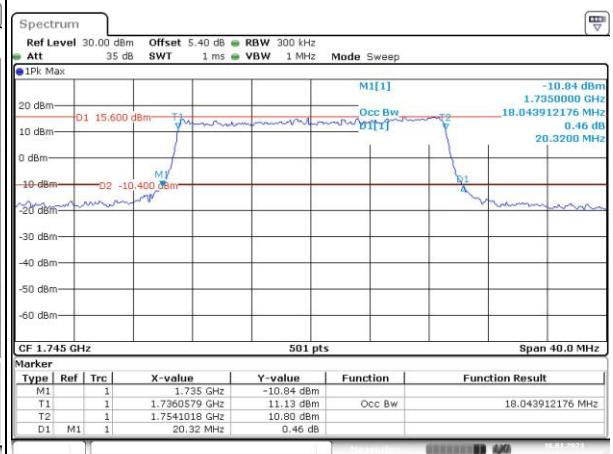
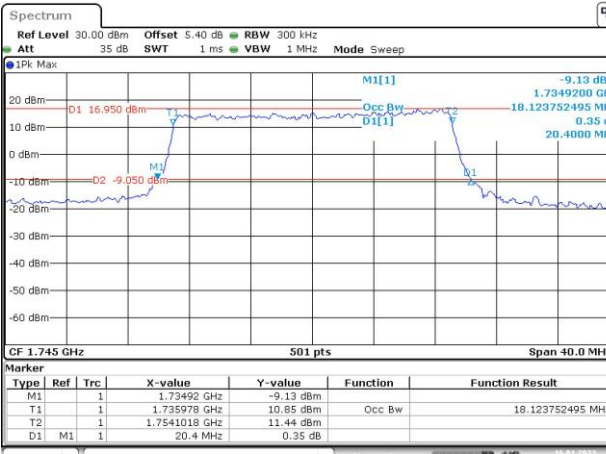
Lowest



Date: 16.JAN.2023 16:10:50

Date: 16.JAN.2023 16:11:13

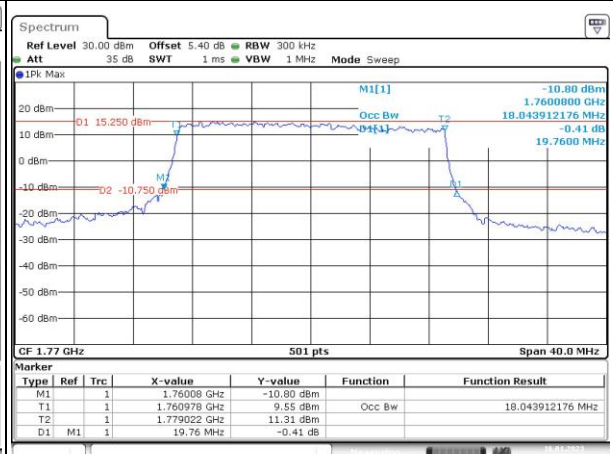
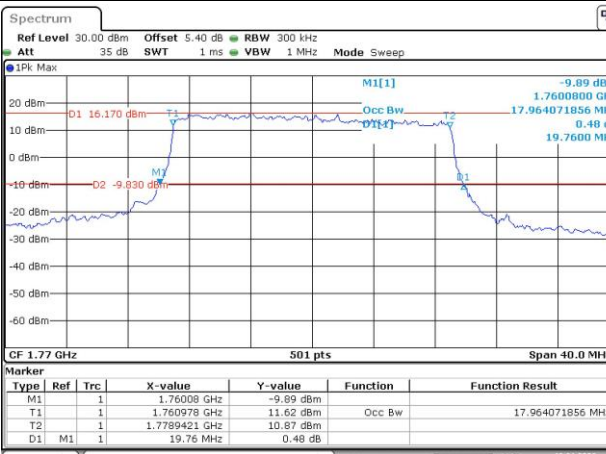
Middle



Date: 16.JAN.2023 16:11:41

Date: 16.JAN.2023 16:12:04

Highest



Date: 16.JAN.2023 16:12:29

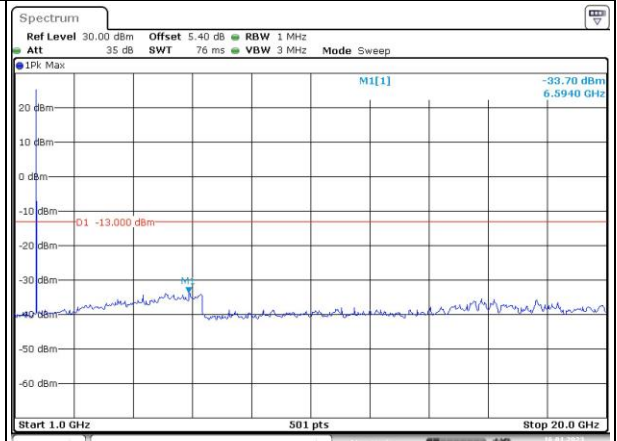
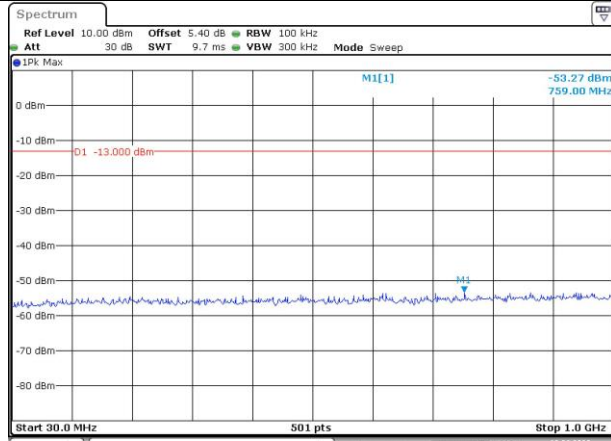
Date: 16.JAN.2023 16:12:49

Spurious Emissions at Antenna Terminal

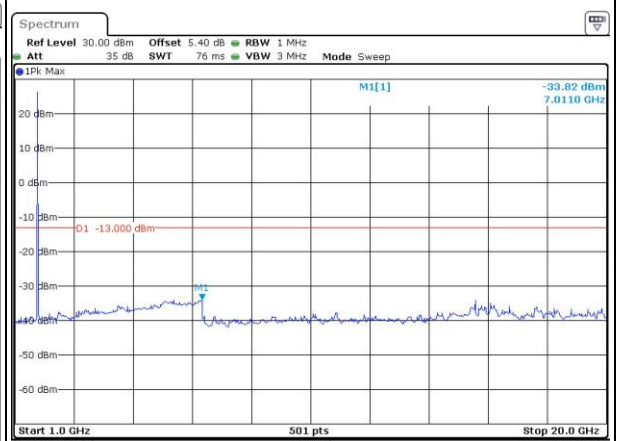
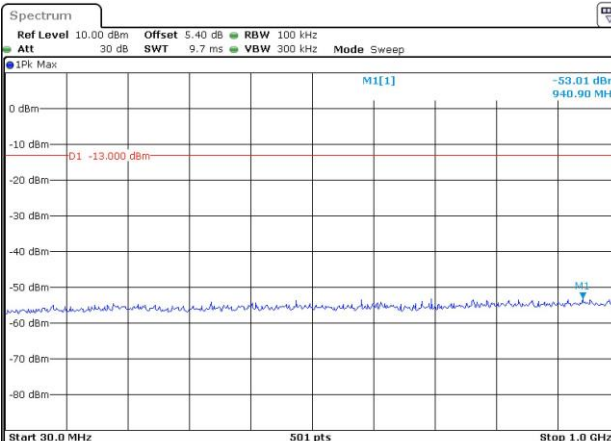
Channel

1.4MHz Bandwidth QPSK

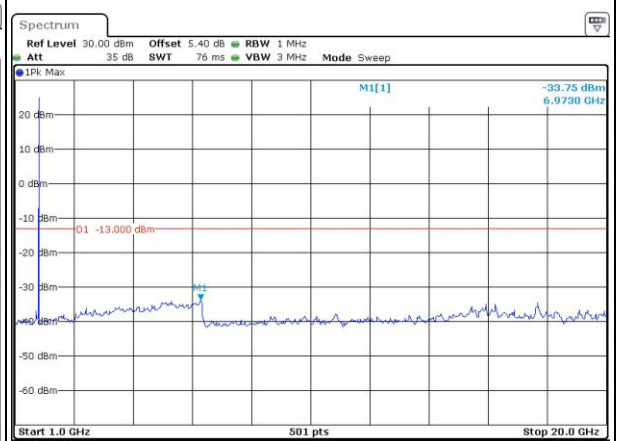
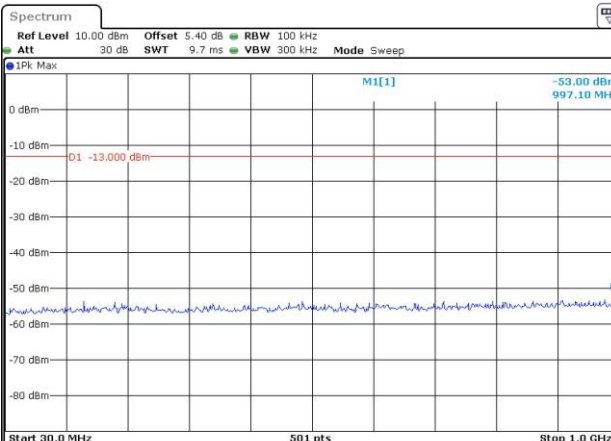
Lowest



Middle



Highest

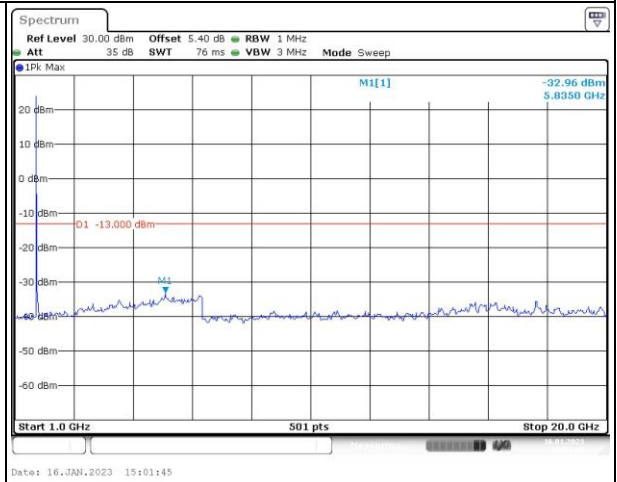
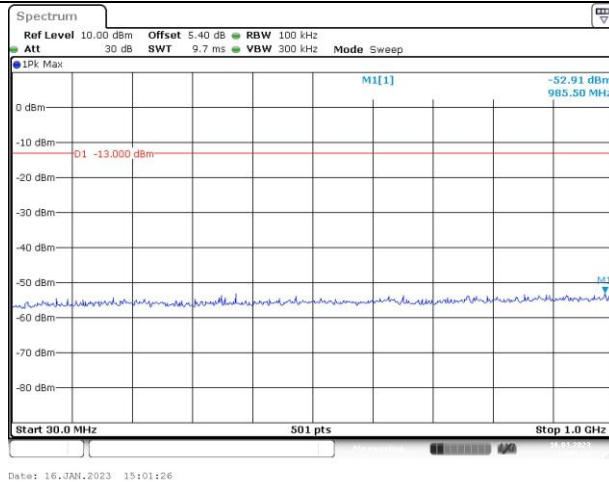


Spurious Emissions at Antenna Terminal

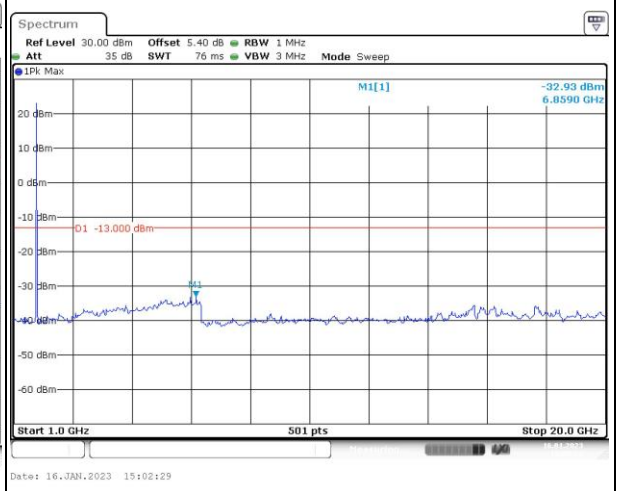
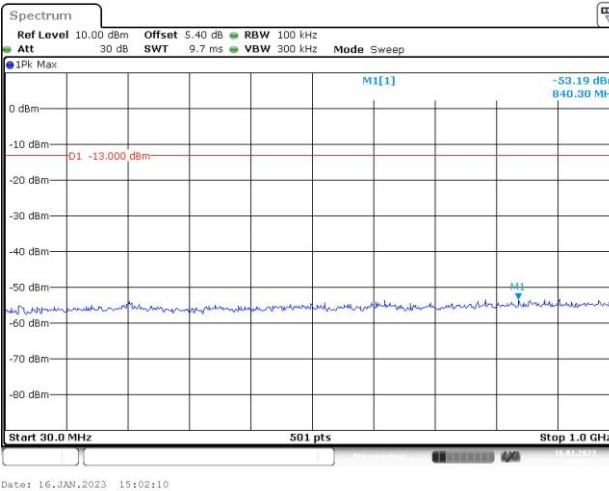
Channel

3MHz Bandwidth QPSK

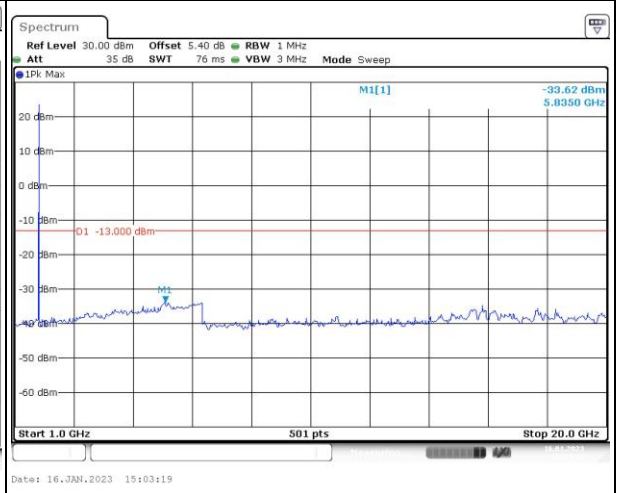
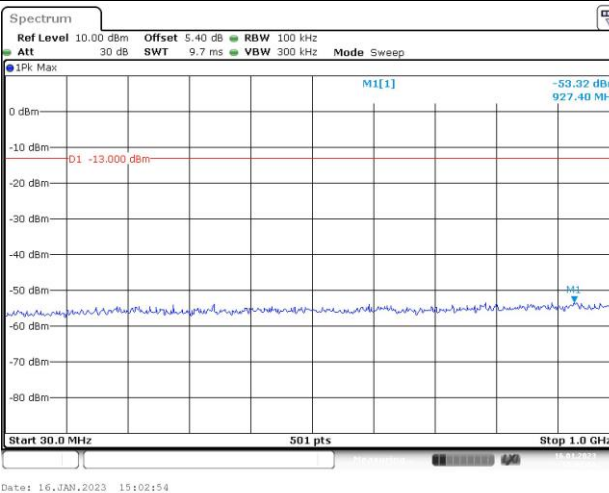
Lowest



Middle



Highest

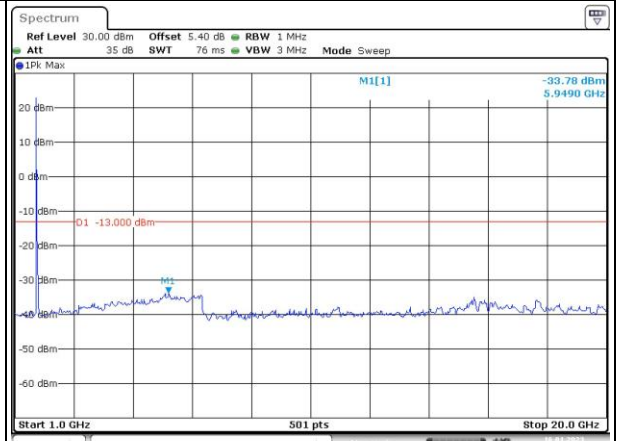
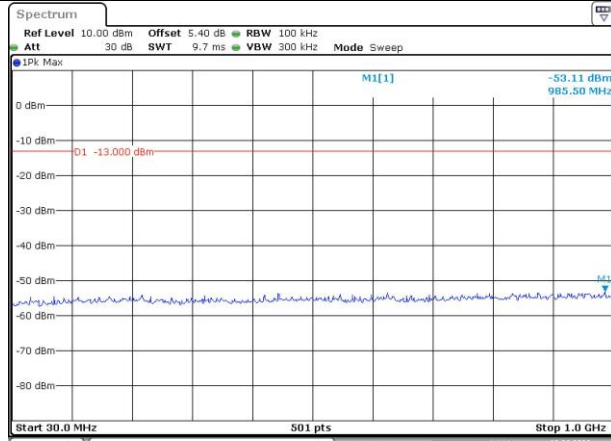


Spurious Emissions at Antenna Terminal

Channel

5MHz Bandwidth QPSK

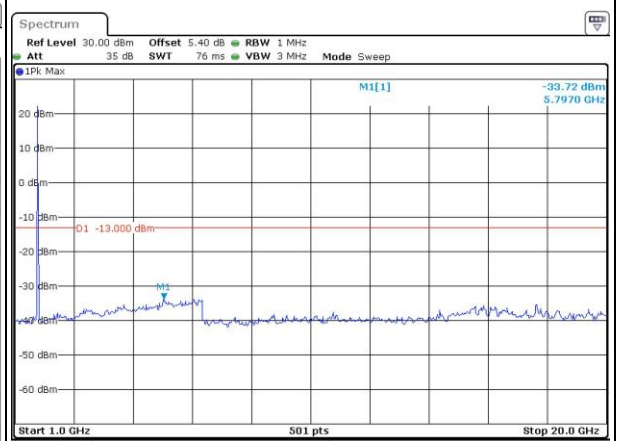
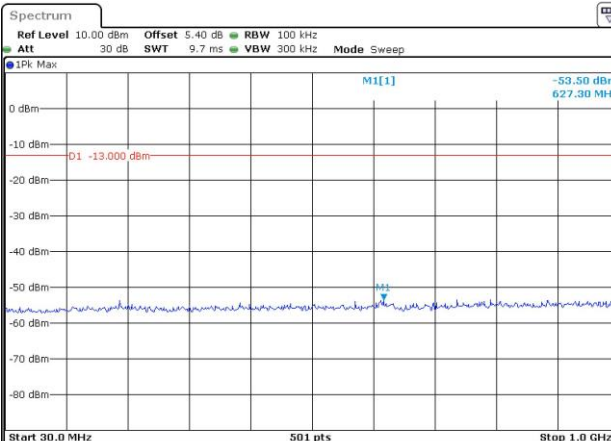
Lowest



Date: 16, JAN, 2023 15:03:56

Date: 16, JAN, 2023 15:04:18

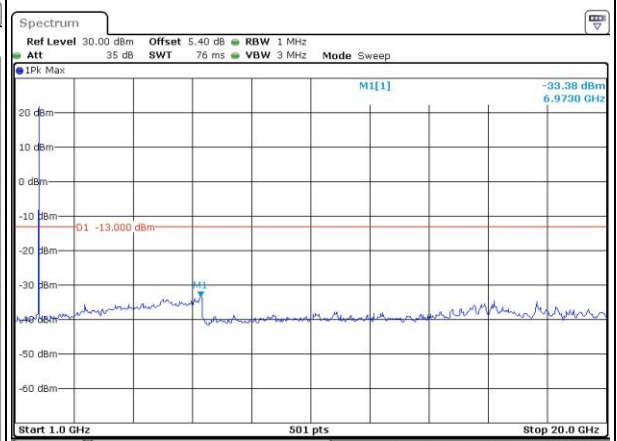
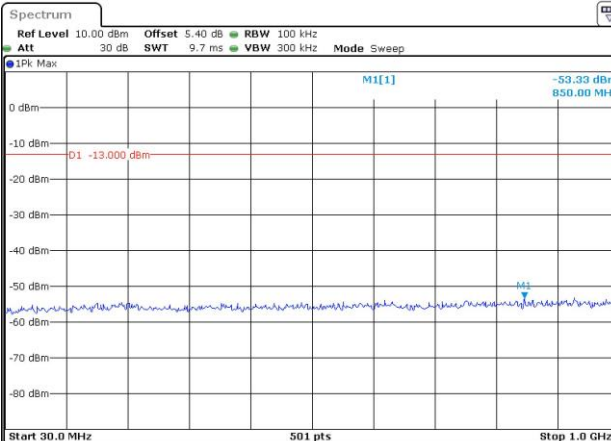
Middle



Date: 16, JAN, 2023 15:04:43

Date: 16, JAN, 2023 15:05:05

Highest



Date: 16, JAN, 2023 15:05:27

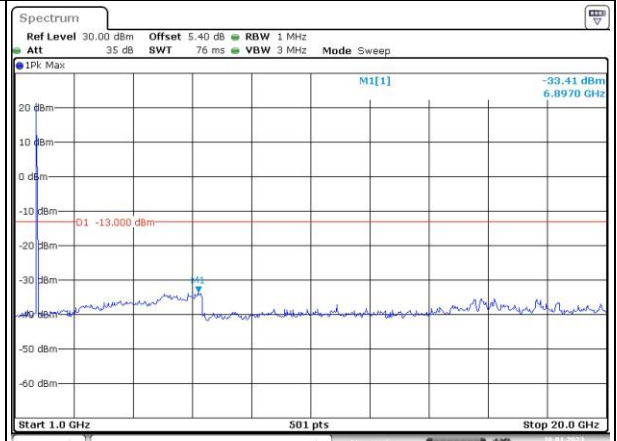
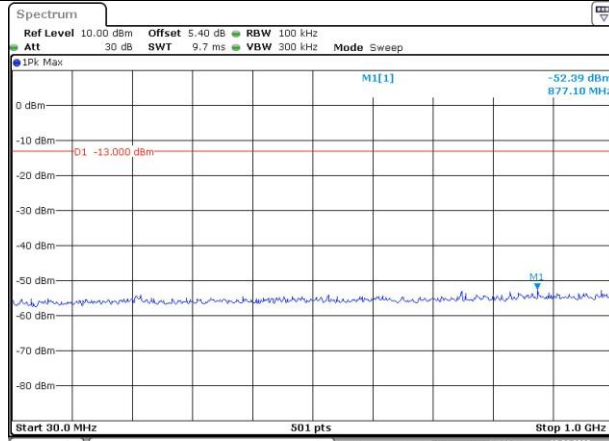
Date: 16, JAN, 2023 15:05:55

Spurious Emissions at Antenna Terminal

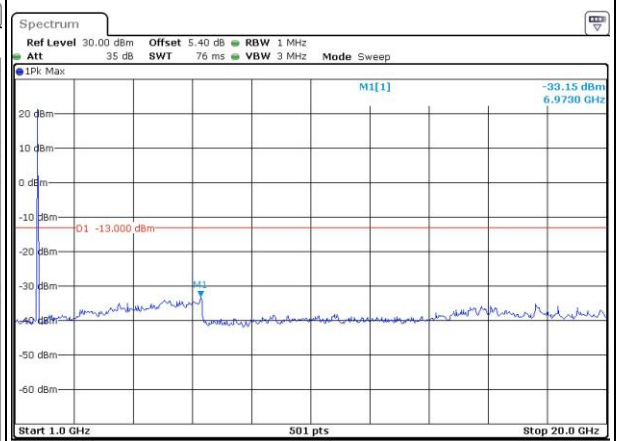
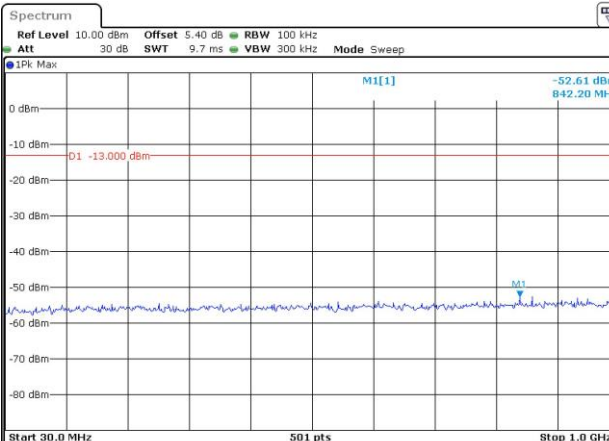
Channel

10MHz Bandwidth QPSK

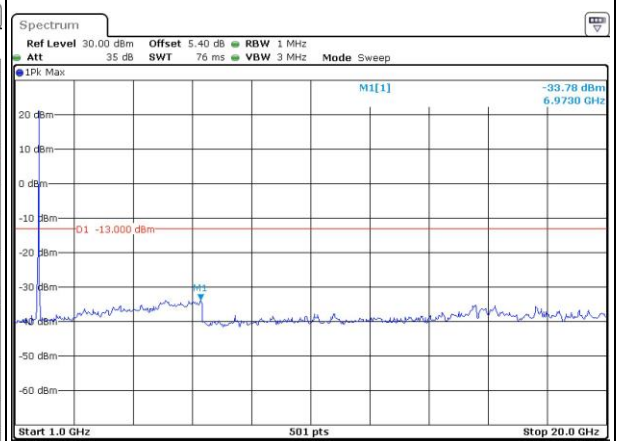
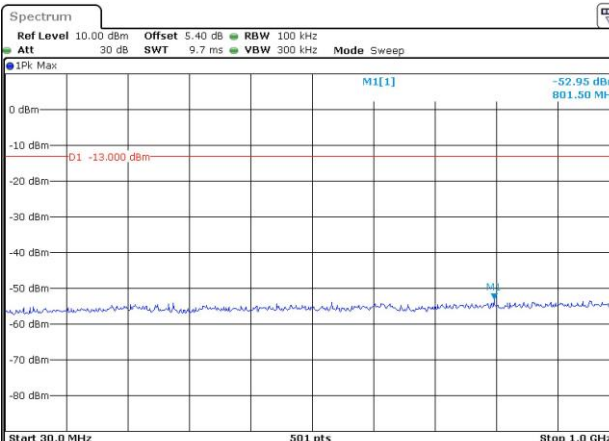
Lowest



Middle



Highest

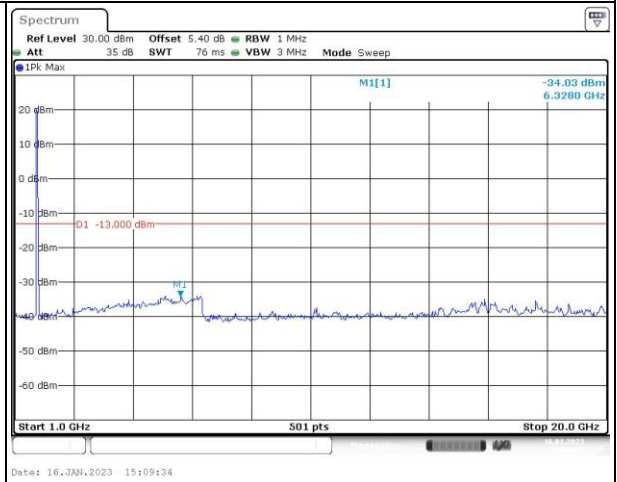
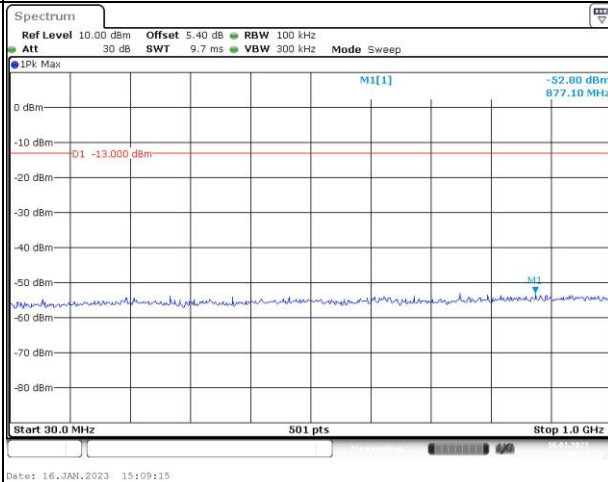


Spurious Emissions at Antenna Terminal

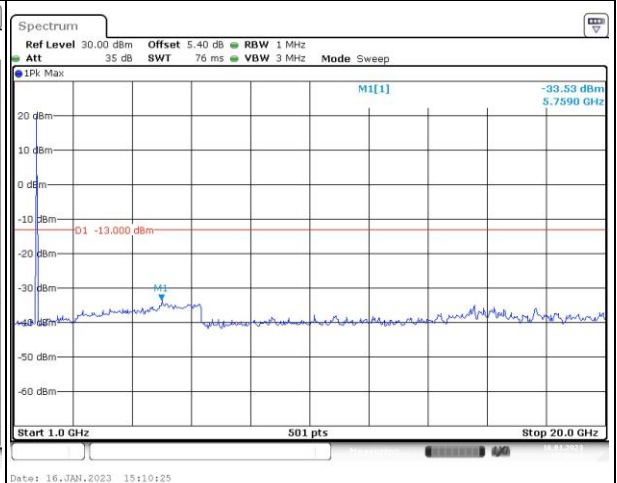
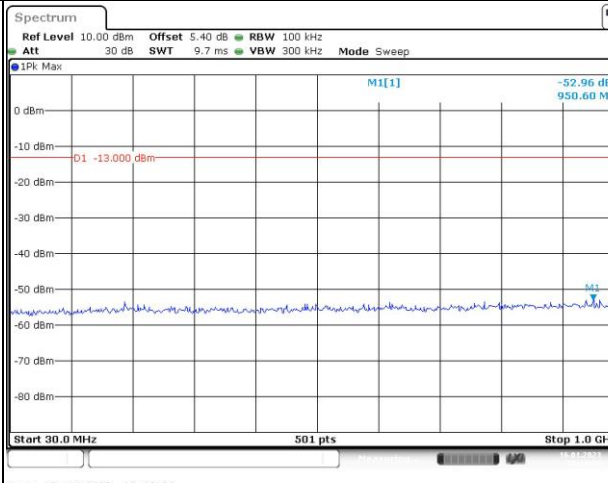
Channel

15MHz Bandwidth QPSK

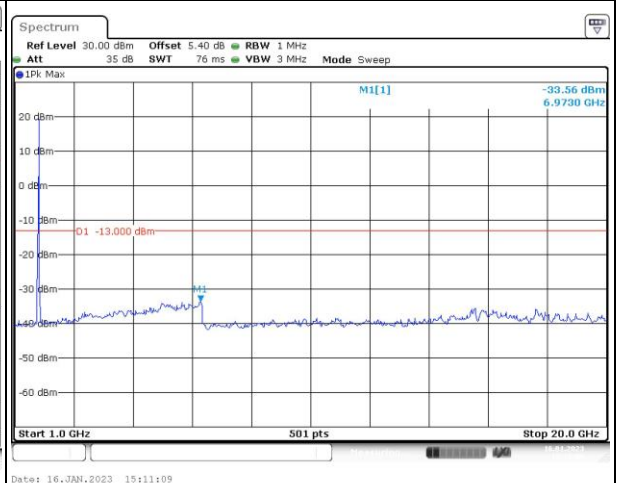
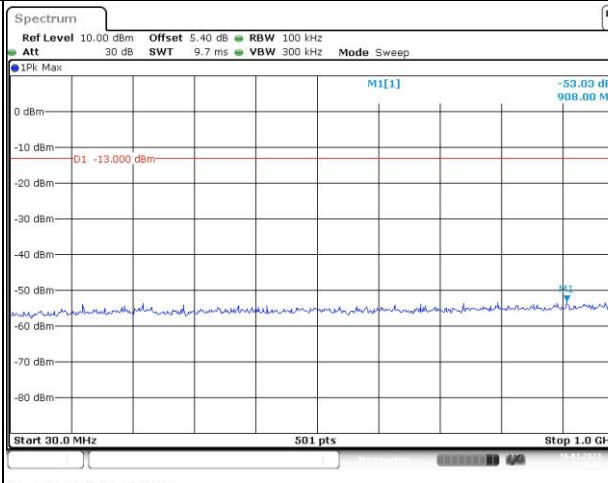
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

Channel	20MHz Bandwidth QPSK	
Lowest	<p>Ref Level 10.00 dBm Offset 5.40 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -52.75 dBm 939.00 MHz</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Date: 16.JAN.2023 15:11:43</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -33.57 dBm 6.9730 GHz</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Date: 16.JAN.2023 15:12:11</p>
	<p>Ref Level 10.00 dBm Offset 5.40 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -52.84 dBm 984.80 MHz</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Date: 16.JAN.2023 15:12:43</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -33.80 dBm 6.1390 GHz</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Date: 16.JAN.2023 15:13:11</p>
Highest	<p>Ref Level 10.00 dBm Offset 5.40 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep</p> <p>IPK Max M1[1] -52.96 dBm 927.40 MHz</p> <p>Start 30.0 MHz 501 pts Stop 1.0 GHz</p> <p>Date: 16.JAN.2023 15:13:41</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep</p> <p>IPK Max M1[1] -33.64 dBm 6.9730 GHz</p> <p>Start 1.0 GHz 501 pts Stop 20.0 GHz</p> <p>Date: 16.JAN.2023 15:13:59</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -27.55 dBm 1.70998800 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 15.JAN.2023 21:53:15</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -33.80 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 15.JAN.2023 21:53:28</p>
QPSK 3MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -27.99 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 15.JAN.2023 21:53:45</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -28.93 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 15.JAN.2023 21:53:58</p>
QPSK 5MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -28.31 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 15.JAN.2023 21:54:16</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -31.04 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 15.JAN.2023 21:54:29</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -33.29 dBm 1.7100000 GHz CF 1.71 GHz 501 pts Span 20.0 MHz Date: 15.JAN.2023 21:54:47</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -36.32 dBm 1.7800000 GHz CF 1.78 GHz 501 pts Span 20.0 MHz Date: 15.JAN.2023 21:55:01</p>
QPSK 15MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -30.74 dBm 1.7100000 GHz CF 1.71 GHz 501 pts Span 30.0 MHz Date: 15.JAN.2023 21:55:21</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -32.86 dBm 1.7800000 GHz CF 1.78 GHz 501 pts Span 30.0 MHz Date: 15.JAN.2023 21:55:35</p>
QPSK 20MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -32.16 dBm 1.7100000 GHz CF 1.71 GHz 501 pts Span 40.0 MHz Date: 15.JAN.2023 21:55:54</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 IRm AvgPwr MI[1] -34.07 dBm 1.7800000 GHz CF 1.78 GHz 501 pts Span 40.0 MHz Date: 15.JAN.2023 21:56:09</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.35 dBm 1.70997010 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 15.JAN.2023 21:53:21</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -34.72 dBm 1.78001200 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 15.JAN.2023 21:53:34</p>
16QAM 3MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.34 dBm 1.71000000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 15.JAN.2023 21:53:51</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.60 dBm 1.78000000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 15.JAN.2023 21:54:04</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.96 dBm 1.71000000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 15.JAN.2023 21:54:22</p>	<p>Ref Level 30.00 dBm Offset 5.40 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Rm AvgPwr MI[1] -29.26 dBm 1.78000000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 15.JAN.2023 21:54:35</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz		
16QAM 15MHz		
16QAM 20MHz		

4.14 Radiated Spurious Emissions

Serial Number:	1XBG-2	Test Date:	2023/1/31~2023/2/1
Test Site:	996-1, 966-2	Test Mode:	Transmitting
Tester:	Vic Du, coco Tian	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	19.5~21.6	Relative Humidity: (%)	40~44	ATM Pressure: (kPa)	100.9~101.3
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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	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2022/04/01	2023/03/31
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200- 70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362- 300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720- 300300	99G1448	2022/07/17	2023/07/16
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
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 (PART 22H)**30 MHz-10 GHz:**

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 850 Frequency:824.2MHz								
723.34	H	21.45	-51.40	0.00	0.50	-51.90	-13.00	38.90
72.15	V	22.81	-49.46	-3.93	0.15	-53.54	-13.00	40.54
1648.400	H	57.18	-47.15	8.68	0.80	-39.27	-13.00	26.27
1648.400	V	59.58	-44.83	8.68	0.80	-36.95	-13.00	23.95
2472.600	H	52.88	-47.90	9.38	1.00	-39.52	-13.00	26.52
2472.600	V	51.79	-48.94	9.38	1.00	-40.56	-13.00	27.56
3296.800	H	48.02	-48.66	10.32	1.15	-39.49	-13.00	26.49
3296.800	V	43.06	-53.38	10.32	1.15	-44.21	-13.00	31.21
GSM 850 Frequency:836.6MHz								
726.25	H	21.80	-50.99	0.00	0.52	-51.51	-13.00	38.51
70.21	V	22.73	-48.33	-4.90	0.15	-53.38	-13.00	40.38
1673.200	H	53.39	-50.92	8.71	0.85	-43.06	-13.00	30.06
1673.200	V	55.06	-49.35	8.71	0.85	-41.49	-13.00	28.49
2509.800	H	49.74	-50.87	9.42	1.01	-42.46	-13.00	29.46
2509.800	V	51.07	-49.55	9.42	1.01	-41.14	-13.00	28.14
3346.400	H	45.52	-51.65	10.34	1.16	-42.47	-13.00	29.47
3346.400	V	44.01	-53.02	10.34	1.16	-43.84	-13.00	30.84
GSM 850 Frequency:848.8MHz								
720.43	H	21.23	-51.68	0.00	0.49	-52.17	-13.00	39.17
71.18	V	22.97	-48.70	-4.41	0.15	-53.26	-13.00	40.26
1697.600	H	52.68	-51.61	8.74	0.90	-43.77	-13.00	30.77
1697.600	V	51.95	-52.47	8.74	0.90	-44.63	-13.00	31.63
2546.400	H	46.38	-53.95	9.47	1.01	-45.49	-13.00	32.49
2546.400	V	47.08	-53.20	9.47	1.01	-44.74	-13.00	31.74
3395.200	H	42.60	-55.09	10.36	1.19	-45.92	-13.00	32.92
3395.200	V	40.17	-57.49	10.36	1.19	-48.32	-13.00	35.32

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)			
WCDMA Band 5 Frequency:826.4 MHz								
724.35	H	21.63	-51.20	0.00	0.51	-51.71	-13.00	38.71
729.45	V	21.98	-47.30	0.00	0.53	-47.83	-13.00	34.83
1652.800	H	49.02	-55.31	8.68	0.81	-47.44	-13.00	34.44
1652.800	V	46.16	-58.25	8.68	0.81	-50.38	-13.00	37.38
2479.200	H	46.31	-54.45	9.39	1.01	-46.07	-13.00	33.07
2479.200	V	43.04	-57.69	9.39	1.01	-49.31	-13.00	36.31
3305.600	H	36.48	-60.25	10.32	1.15	-51.08	-13.00	38.08
3305.600	V	35.43	-61.07	10.32	1.15	-51.90	-13.00	38.90
WCDMA Band 5 Frequency:836.6MHz								
704.34	H	21.40	-51.83	0.00	0.55	-52.38	-13.00	39.38
726.89	V	21.41	-47.92	0.00	0.52	-48.44	-13.00	35.44
1673.200	H	46.64	-57.67	8.71	0.85	-49.81	-13.00	36.81
1673.200	V	48.39	-56.02	8.71	0.85	-48.16	-13.00	35.16
2509.800	H	48.55	-52.06	9.42	1.01	-43.65	-13.00	30.65
2509.800	V	53.65	-46.97	9.42	1.01	-38.56	-13.00	25.56
3346.400	H	38.67	-58.50	10.34	1.16	-49.32	-13.00	36.32
WCDMA Band 5 Frequency:846.6MHz								
758.10	H	21.21	-50.94	0.00	0.52	-51.46	-13.00	38.46
562.87	V	21.60	-50.07	0.00	0.46	-50.53	-13.00	37.53
1693.200	H	54.00	-50.30	8.73	0.89	-42.46	-13.00	29.46
1693.200	V	52.53	-51.89	8.73	0.89	-44.05	-13.00	31.05
2539.800	H	44.72	-55.66	9.46	1.01	-47.21	-13.00	34.21
2539.800	V	43.48	-56.86	9.46	1.01	-48.41	-13.00	35.41
3386.400	H	35.21	-62.38	10.35	1.18	-53.21	-13.00	40.21
3386.400	V	37.26	-60.28	10.35	1.18	-51.11	-13.00	38.11

PCS Band (PART 24E)

30 MHz-20 GHz:

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								
251.42	H	45.57	-66.30	0.00	0.30	-66.60	-13.00	53.60
71.18	V	53.05	-50.26	-4.41	0.15	-54.82	-13.00	41.82
3700.400	H	48.51	-48.81	10.60	1.25	-39.46	-13.00	26.46
3700.400	V	47.86	-49.44	10.60	1.25	-40.09	-13.00	27.09
5550.600	H	43.64	-49.62	11.44	1.49	-39.67	-13.00	26.67
5550.600	V	45.30	-47.80	11.44	1.49	-37.85	-13.00	24.85
GSM 1900 Frequency:1880MHz								
245.61	H	47.01	-64.98	0.00	0.30	-65.28	-13.00	52.28
71.18	V	53.39	-49.92	-4.41	0.15	-54.48	-13.00	41.48
3760.000	H	45.25	-51.16	10.66	1.24	-41.74	-13.00	28.74
3760.000	V	43.90	-52.39	10.66	1.24	-42.97	-13.00	29.97
5640.000	H	48.55	-44.90	11.33	1.54	-35.11	-13.00	22.11
5640.000	V	45.82	-47.51	11.33	1.54	-37.72	-13.00	24.72
GSM 1900 Frequency:1909.8MHz								
246.58	H	46.70	-65.27	0.00	0.30	-65.57	-13.00	52.57
71.18	V	52.55	-50.76	-4.41	0.15	-55.32	-13.00	42.32
3819.600	H	45.97	-49.89	10.72	1.29	-40.46	-13.00	27.46
3819.600	V	46.35	-49.37	10.72	1.29	-39.94	-13.00	26.94
5729.400	H	44.71	-48.77	11.22	1.59	-39.14	-13.00	26.14
5729.400	V	45.85	-47.51	11.22	1.59	-37.88	-13.00	24.88

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)			
WCDMA Band II, Frequency:1852.4 MHz								
238.31	H	46.94	-65.19	0.00	0.29	-65.48	-13.00	52.48
67.43	V	48.45	-55.03	-6.36	0.15	-61.54	-13.00	48.54
3704.800	H	41.98	-55.28	10.60	1.25	-45.93	-13.00	32.93
3704.800	V	40.13	-57.10	10.60	1.25	-47.75	-13.00	34.75
5557.200	H	36.88	-56.40	11.43	1.49	-46.46	-13.00	33.46
5557.200	V	37.42	-55.71	11.43	1.49	-45.77	-13.00	32.77
WCDMA Band II, Frequency:1880 MHz								
236.64	H	47.01	-65.15	0.00	0.29	-65.44	-13.00	52.44
70.09	V	49.35	-53.31	-4.96	0.15	-58.42	-13.00	45.42
3760.000	H	42.16	-54.25	10.66	1.24	-44.83	-13.00	31.83
3760.000	V	43.27	-53.02	10.66	1.24	-43.60	-13.00	30.60
5640.000	H	39.24	-54.21	11.33	1.54	-44.42	-13.00	31.42
5640.000	V	39.97	-53.36	11.33	1.54	-43.57	-13.00	30.57
WCDMA Band II, Frequency:1907.6MHz								
234.99	H	46.64	-65.56	0.00	0.29	-65.85	-13.00	52.85
67.91	V	48.25	-55.07	-6.11	0.15	-61.33	-13.00	48.33
3815.200	H	40.18	-55.67	10.72	1.29	-46.24	-13.00	33.24
3815.200	V	41.76	-53.93	10.72	1.29	-44.50	-13.00	31.50
5722.800	H	38.67	-54.82	11.23	1.58	-45.17	-13.00	32.17
5722.800	V	39.54	-53.81	11.23	1.58	-44.16	-13.00	31.16

AWS Band(Part 27)

30 MHz-20 GHz:

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)			
WCDMA Band IV, Frequency:1712.4 MHz								
238.31	H	47.33	-64.80	0.00	0.29	-65.09	-13.00	52.09
67.43	V	47.87	-55.61	-6.36	0.15	-62.12	-13.00	49.12
3424.800	H	36.34	-61.43	10.37	1.17	-52.23	-13.00	39.23
3424.800	V	45.31	-52.43	10.37	1.17	-43.23	-13.00	30.23
5137.200	H	35.27	-58.35	11.28	1.46	-48.53	-13.00	35.53
5137.200	V	35.49	-58.01	11.28	1.46	-48.19	-13.00	35.19
WCDMA Band IV, Frequency:1732.6 MHz								
239.14	H	47.13	-64.99	0.00	0.29	-65.28	-13.00	52.28
66.73	V	46.02	-57.70	-6.73	0.15	-64.58	-13.00	51.58
3465.200	H	40.55	-57.26	10.39	1.15	-48.02	-13.00	35.02
3465.200	V	48.40	-49.37	10.39	1.15	-40.13	-13.00	27.13
5197.800	H	35.67	-58.46	11.32	1.44	-48.58	-13.00	35.58
5197.800	V	36.12	-57.86	11.32	1.44	-47.98	-13.00	34.98
WCDMA Band IV, Frequency:1752.6MHz								
239.98	H	47.17	-64.93	0.00	0.29	-65.22	-13.00	52.22
572.61	V	46.58	-56.85	0.00	0.46	-57.31	-13.00	44.31
3505.200	H	43.51	-54.32	10.41	1.18	-45.09	-13.00	32.09
3505.200	V	51.10	-46.67	10.41	1.18	-37.44	-13.00	24.44
5257.800	H	35.79	-57.94	11.35	1.47	-48.06	-13.00	35.06
5257.800	V	35.87	-57.64	11.35	1.47	-47.76	-13.00	34.76

LTE Bands:
(The Worst modulation and bandwidth was below)

LTE Band 2 (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)			
QPSK, Frequency: 1850.7 MHz								
219.45	H	44.48	-68.02	0.00	0.27	-68.29	-13.00	55.29
561.51	V	44.66	-58.66	0.00	0.47	-59.13	-13.00	46.13
3701.400	H	46.20	-51.11	10.60	1.25	-41.76	-13.00	28.76
3701.400	V	52.52	-44.77	10.60	1.25	-35.42	-13.00	22.42
5552.100	H	41.03	-52.24	11.44	1.49	-42.29	-13.00	29.29
5552.100	V	40.02	-53.08	11.44	1.49	-43.13	-13.00	30.13
QPSK, Frequency: 1880 MHz								
250.45	H	45.77	-66.12	0.00	0.30	-66.42	-13.00	53.42
561.51	V	50.23	-53.09	0.00	0.47	-53.56	-13.00	40.56
3760.000	H	42.02	-54.39	10.66	1.24	-44.97	-13.00	31.97
3760.000	V	49.76	-46.53	10.66	1.24	-37.11	-13.00	24.11
5640.000	H	39.59	-53.86	11.33	1.54	-44.07	-13.00	31.07
5640.000	V	39.66	-53.67	11.33	1.54	-43.88	-13.00	30.88
QPSK, Frequency: 1909.3 MHz								
253.36	H	46.98	-64.84	0.00	0.30	-65.14	-13.00	52.14
561.51	V	50.15	-53.17	0.00	0.47	-53.64	-13.00	40.64
3818.600	H	49.08	-46.78	10.72	1.29	-37.35	-13.00	24.35
3818.600	V	56.56	-39.15	10.72	1.29	-29.72	-13.00	16.72
5727.900	H	41.29	-52.19	11.23	1.59	-42.55	-13.00	29.55
5727.900	V	44.46	-48.90	11.23	1.59	-39.26	-13.00	26.26

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)			
QPSK, Frequency: 1710.7 MHz								
251.42	H	46.06	-65.81	0.00	0.30	-66.11	-13.00	53.11
571.20	V	49.86	-53.56	0.00	0.46	-54.02	-13.00	41.02
3421.400	H	44.20	-53.56	10.37	1.17	-44.36	-13.00	31.36
3421.400	V	42.47	-55.26	10.37	1.17	-46.06	-13.00	33.06
5132.100	H	47.19	-46.38	11.28	1.47	-36.57	-13.00	23.57
5132.100	V	48.73	-44.73	11.28	1.47	-34.92	-13.00	21.92
QPSK, Frequency: 1732.5 MHz								
245.61	H	46.13	-65.86	0.00	0.30	-66.16	-13.00	53.16
561.51	V	49.86	-53.46	0.00	0.47	-53.93	-13.00	40.93
3465.000	H	43.71	-54.10	10.39	1.15	-44.86	-13.00	31.86
3465.000	V	45.55	-52.22	10.39	1.15	-42.98	-13.00	29.98
5197.500	H	42.81	-51.32	11.32	1.44	-41.44	-13.00	28.44
5197.500	V	44.91	-49.07	11.32	1.44	-39.19	-13.00	26.19
QPSK, Frequency: 1754.3MHz								
243.67	H	47.00	-65.03	0.00	0.30	-65.33	-13.00	52.33
64.40	V	50.48	-54.03	-7.97	0.14	-62.14	-13.00	49.14
3508.600	H	45.02	-52.80	10.41	1.19	-43.58	-13.00	30.58
3508.600	V	47.34	-50.42	10.41	1.19	-41.20	-13.00	28.20
5262.900	H	44.02	-49.68	11.36	1.47	-39.79	-13.00	26.79
5262.900	V	47.35	-46.12	11.36	1.47	-36.23	-13.00	23.23

LTE Band 5(30MHz-10GHz):

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)			
QPSK, Frequency: 824.7 MHz								
714.33	H	21.58	-51.45	0.00	0.50	-51.95	-13.00	38.95
729.45	V	21.24	-48.04	0.00	0.53	-48.57	-13.00	35.57
1649.400	H	52.03	-52.30	8.68	0.80	-44.42	-13.00	31.42
1649.400	V	50.87	-53.54	8.68	0.80	-45.66	-13.00	32.66
2474.100	H	54.67	-46.11	9.38	1.00	-37.73	-13.00	24.73
2474.100	V	59.77	-40.96	9.38	1.00	-32.58	-13.00	19.58
3298.800	H	45.56	-51.12	10.32	1.15	-41.95	-13.00	28.95
3298.800	V	46.75	-49.69	10.32	1.15	-40.52	-13.00	27.52
QPSK, Frequency: 836.5 MHz								
714.33	H	21.52	-51.51	0.00	0.50	-52.01	-13.00	39.01
719.36	V	21.03	-48.47	0.00	0.49	-48.96	-13.00	35.96
1673.000	H	52.93	-51.38	8.71	0.85	-43.52	-13.00	30.52
1673.000	V	53.35	-51.06	8.71	0.85	-43.20	-13.00	30.20
2509.500	H	64.32	-36.29	9.42	1.01	-27.88	-13.00	14.88
2509.500	V	66.11	-34.51	9.42	1.01	-26.10	-13.00	13.10
3346.000	H	48.10	-49.06	10.34	1.16	-39.88	-13.00	26.88
3346.000	V	49.37	-47.65	10.34	1.16	-38.47	-13.00	25.47
QPSK, Frequency: 848.3 MHz								
724.35	H	21.51	-51.32	0.00	0.51	-51.83	-13.00	38.83
716.78	V	21.22	-48.33	0.00	0.50	-48.83	-13.00	35.83
1696.600	H	53.68	-50.61	8.74	0.89	-42.76	-13.00	29.76
1696.600	V	54.01	-50.41	8.74	0.89	-42.56	-13.00	29.56
2544.900	H	56.19	-44.15	9.47	1.01	-35.69	-13.00	22.69
2544.900	V	56.91	-43.39	9.47	1.01	-34.93	-13.00	21.93
3393.200	H	45.42	-52.25	10.36	1.19	-43.08	-13.00	30.08
3393.200	V	46.08	-51.55	10.36	1.19	-42.38	-13.00	29.38

LTE Band 7 (30MHz-26.5GHz):

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)			
QPSK, Frequency: 2502.5 MHz								
247.55	H	41.80	-70.15	0.00	0.30	-70.45	-25.00	45.45
571.20	V	50.54	-52.88	0.00	0.46	-53.34	-25.00	28.34
5005.000	H	43.03	-49.93	11.20	1.47	-40.20	-25.00	15.20
5005.000	V	49.65	-43.17	11.20	1.47	-33.44	-25.00	8.44
7507.500	H	36.09	-53.70	10.90	1.95	-44.75	-25.00	19.75
7507.500	V	35.13	-55.16	10.90	1.95	-46.21	-25.00	21.21
QPSK, Frequency:2535 MHz								
246.58	H	41.51	-70.46	0.00	0.30	-70.76	-25.00	45.76
561.51	V	50.71	-52.61	0.00	0.47	-53.08	-25.00	28.08
5070.000	H	41.29	-51.90	11.24	1.47	-42.13	-25.00	17.13
5070.000	V	48.11	-44.98	11.24	1.47	-35.21	-25.00	10.21
7605.000	H	40.74	-48.73	10.88	2.01	-39.86	-25.00	14.86
7605.000	V	39.66	-50.53	10.88	2.01	-41.66	-25.00	16.66
QPSK, Frequency: 2567.5 MHz								
245.61	H	46.17	-65.82	0.00	0.30	-66.12	-25.00	41.12
65.37	V	43.63	-60.55	-7.45	0.14	-68.14	-25.00	43.14
5135.000	H	40.89	-52.71	11.28	1.47	-42.90	-25.00	17.90
5135.000	V	47.84	-45.65	11.28	1.47	-35.84	-25.00	10.84
7702.500	H	38.42	-51.10	10.86	1.97	-42.21	-25.00	17.21
7702.500	V	37.66	-52.52	10.86	1.97	-43.63	-25.00	18.63

LTE Band 12 (30MHz-10GHz):

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)			
QPSK, Frequency: 699.7 MHz								
610.10	H	21.27	-52.54	0.00	0.47	-53.01	-13.00	40.01
591.17	V	21.16	-50.56	0.00	0.49	-51.05	-13.00	38.05
1399.400	H	68.94	-34.76	8.22	0.71	-27.25	-13.00	14.25
1399.400	V	66.38	-37.37	8.22	0.71	-29.86	-13.00	16.86
2099.100	H	55.91	-45.97	9.16	0.91	-37.72	-13.00	24.72
2099.100	V	56.76	-45.07	9.16	0.91	-36.82	-13.00	23.82
2798.800	H	45.67	-54.26	9.88	1.04	-45.42	-13.00	32.42
2798.800	V	45.65	-54.15	9.88	1.04	-45.31	-13.00	32.31
QPSK, Frequency: 707.5 MHz								
241.12	H	21.15	-59.72	0.00	0.29	-60.01	-13.00	47.01
582.94	V	20.42	-51.28	0.00	0.46	-51.74	-13.00	38.74
1415.000	H	68.43	-35.24	8.26	0.72	-27.70	-13.00	14.70
1415.000	V	68.62	-35.10	8.26	0.72	-27.56	-13.00	14.56
2122.500	H	57.58	-44.41	9.17	0.92	-36.16	-13.00	23.16
2122.500	V	59.76	-42.21	9.17	0.92	-33.96	-13.00	20.96
2830.000	H	51.52	-48.28	9.93	1.06	-39.41	-13.00	26.41
2830.000	V	48.79	-50.94	9.93	1.06	-42.07	-13.00	29.07
QPSK, Frequency: 715.3 MHz								
584.90	H	21.45	-52.71	0.00	0.46	-53.17	-13.00	40.17
643.02	V	21.01	-49.94	0.00	0.52	-50.46	-13.00	37.46
1430.600	H	61.85	-41.78	8.31	0.73	-34.20	-13.00	21.20
1430.600	V	62.88	-40.81	8.31	0.73	-33.23	-13.00	20.23
2145.900	H	50.27	-51.83	9.19	0.93	-43.57	-13.00	30.57
2145.900	V	61.20	-40.91	9.19	0.93	-32.65	-13.00	19.65
2861.200	H	47.97	-51.68	9.98	1.07	-42.77	-13.00	29.77
2861.200	V	50.75	-48.92	9.98	1.07	-40.01	-13.00	27.01

LTE Band 17 (30MHz-10GHz):

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)			
QPSK, Frequency: 706.5 MHz								
572.17	H	20.65	-53.76	0.00	0.46	-54.22	-13.00	41.22
71.18	V	23.91	-47.76	-4.41	0.15	-52.32	-13.00	39.32
1413.000	H	67.84	-35.83	8.26	0.72	-28.29	-13.00	15.29
1413.000	V	66.50	-37.22	8.26	0.72	-29.68	-13.00	16.68
2119.500	H	56.29	-45.68	9.17	0.92	-37.43	-13.00	24.43
2119.500	V	61.16	-40.79	9.17	0.92	-32.54	-13.00	19.54
2826.000	H	59.63	-40.18	9.92	1.06	-31.32	-13.00	18.32
2826.000	V	53.61	-46.13	9.92	1.06	-37.27	-13.00	24.27
QPSK, Frequency: 710 MHz								
627.41	H	21.03	-52.68	0.00	0.48	-53.16	-13.00	40.16
72.15	V	23.88	-48.39	-3.93	0.15	-52.47	-13.00	39.47
1420.000	H	64.31	-39.35	8.28	0.73	-31.80	-13.00	18.80
1420.000	V	64.47	-39.24	8.28	0.73	-31.69	-13.00	18.69
2130.000	H	48.61	-53.41	9.18	0.92	-45.15	-13.00	32.15
2130.000	V	58.89	-43.12	9.18	0.92	-34.86	-13.00	21.86
2840.000	H	43.04	-56.71	9.94	1.06	-47.83	-13.00	34.83
2840.000	V	42.88	-56.83	9.94	1.06	-47.95	-13.00	34.95
QPSK, Frequency: 713.5 MHz								
567.33	H	21.59	-52.91	0.00	0.46	-53.37	-13.00	40.37
70.21	V	22.98	-48.08	-4.90	0.15	-53.13	-13.00	40.13
1427.000	H	63.83	-39.81	8.30	0.73	-32.24	-13.00	19.24
1427.000	V	64.01	-39.68	8.30	0.73	-32.11	-13.00	19.11
2140.500	H	53.19	-48.88	9.18	0.93	-40.63	-13.00	27.63
2140.500	V	55.34	-46.74	9.18	0.93	-38.49	-13.00	25.49
2854.000	H	44.64	-55.05	9.97	1.07	-46.15	-13.00	33.15
2854.000	V	45.80	-53.88	9.97	1.07	-44.98	-13.00	31.98

LTE Band 41(30MHz-26.5GHz):

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)			
QPSK, Frequency: 2498.5 MHz								
250.45	H	46.05	-65.84	0.00	0.30	-66.14	-25.00	41.14
71.18	V	52.12	-51.19	-4.41	0.15	-55.75	-25.00	30.75
4997.000	H	45.40	-47.54	11.20	1.48	-37.82	-25.00	12.82
4997.000	V	51.47	-41.33	11.20	1.48	-31.61	-25.00	6.61
7495.500	H	44.36	-45.43	10.90	1.94	-36.47	-25.00	11.47
7495.500	V	41.68	-48.61	10.90	1.94	-39.65	-25.00	14.65
QPSK, Frequency:2593 MHz								
217.51	H	45.51	-67.03	0.00	0.27	-67.30	-25.00	42.30
251.42	V	45.39	-65.52	0.00	0.30	-65.82	-25.00	40.82
5186.000	H	41.92	-52.11	11.31	1.44	-42.24	-25.00	17.24
5186.000	V	49.28	-44.61	11.31	1.44	-34.74	-25.00	9.74
7779.000	H	41.65	-47.84	10.84	1.99	-38.99	-25.00	13.99
7779.000	V	39.16	-50.78	10.84	1.99	-41.93	-25.00	16.93
QPSK, Frequency: 2687.5 MHz								
217.51	H	45.83	-66.71	0.00	0.27	-66.98	-25.00	41.98
71.18	V	53.22	-50.09	-4.41	0.15	-54.65	-25.00	29.65
5375.000	H	42.35	-51.16	11.43	1.49	-41.22	-25.00	16.22
5375.000	V	49.86	-43.64	11.43	1.49	-33.70	-25.00	8.70
8062.500	H	40.37	-47.85	10.81	2.12	-39.16	-25.00	14.16
8062.500	V	38.76	-49.96	10.81	2.12	-41.27	-25.00	16.27

LTE Band 66(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)			
QPSK, Frequency: 1710.7 MHz								
241.73	H	46.26	-65.80	0.00	0.29	-66.09	-13.00	53.09
64.40	V	50.76	-53.75	-7.97	0.14	-61.86	-13.00	48.86
3421.400	H	41.53	-56.23	10.37	1.17	-47.03	-13.00	34.03
3421.400	V	39.05	-58.68	10.37	1.17	-49.48	-13.00	36.48
5132.100	H	39.42	-54.15	11.28	1.47	-44.34	-13.00	31.34
5132.100	V	40.91	-52.55	11.28	1.47	-42.74	-13.00	29.74
QPSK, Frequency:1745 MHz								
244.64	H	46.96	-65.05	0.00	0.30	-65.35	-13.00	52.35
65.37	V	51.01	-53.17	-7.45	0.14	-60.76	-13.00	47.76
3490.000	H	44.36	-53.48	10.40	1.17	-44.25	-13.00	31.25
3490.000	V	41.64	-56.14	10.40	1.17	-46.91	-13.00	33.91
5235.000	H	41.22	-52.68	11.34	1.46	-42.80	-13.00	29.80
5235.000	V	45.32	-48.39	11.34	1.46	-38.51	-13.00	25.51
QPSK, Frequency: 1779.3 MHz								
243.67	H	46.66	-65.37	0.00	0.30	-65.67	-13.00	52.67
571.20	V	51.33	-52.09	0.00	0.46	-52.55	-13.00	39.55
3558.600	H	43.00	-54.67	10.46	1.22	-45.43	-13.00	32.43
3558.600	V	44.83	-52.74	10.46	1.22	-43.50	-13.00	30.50
5337.900	H	38.43	-55.04	11.40	1.47	-45.11	-13.00	32.11
5337.900	V	43.28	-50.05	11.40	1.47	-40.12	-13.00	27.12

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 =====