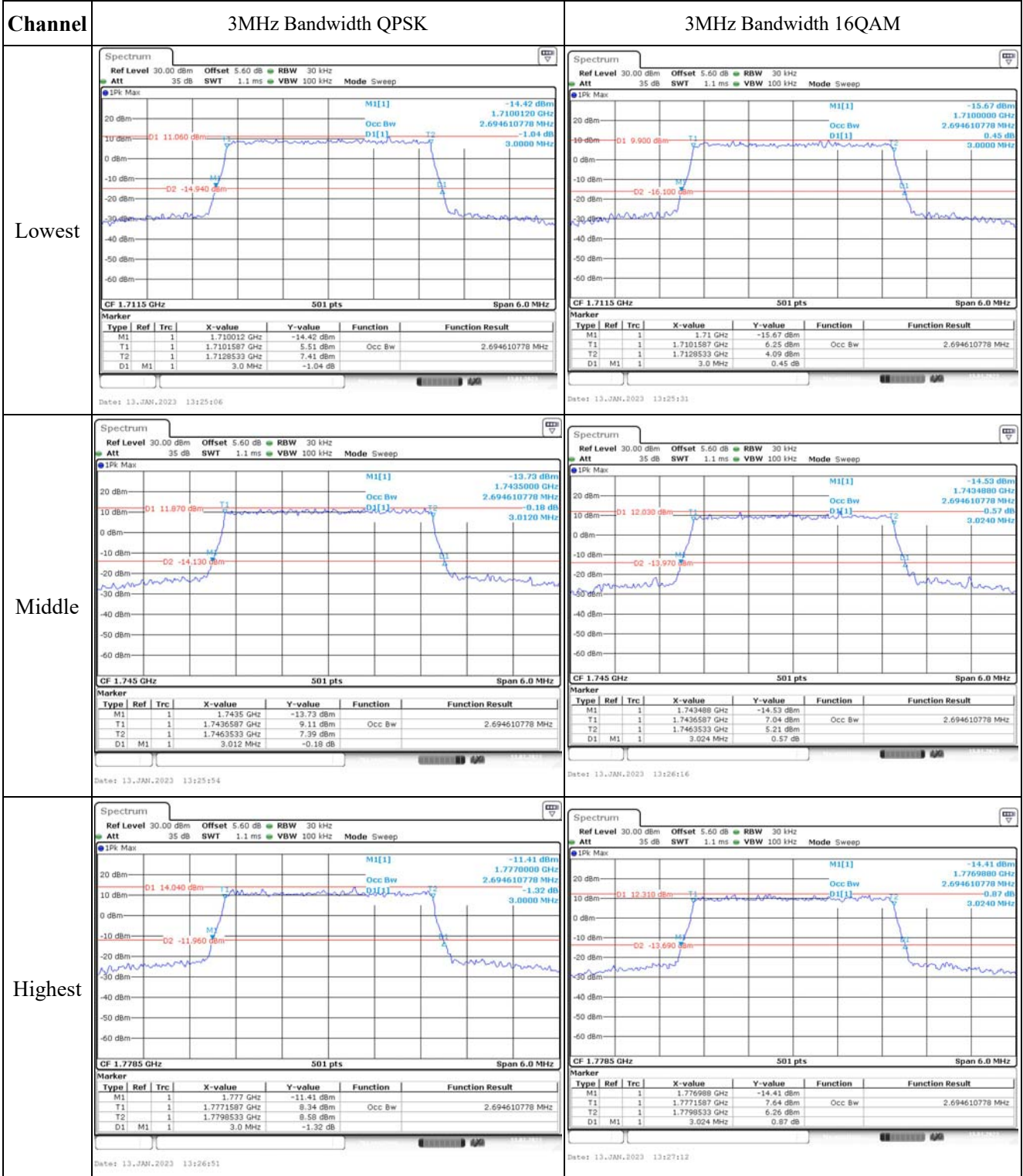
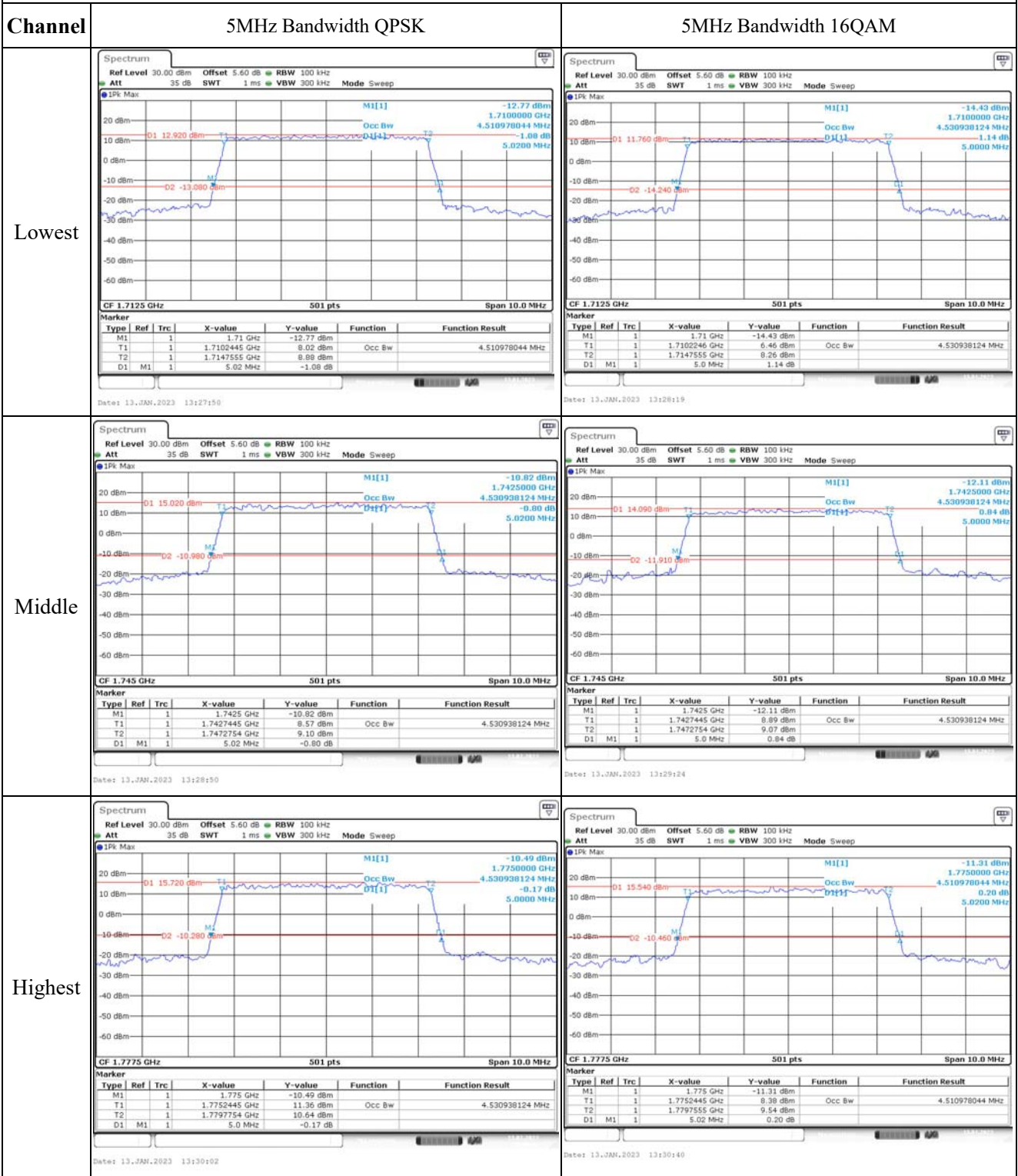


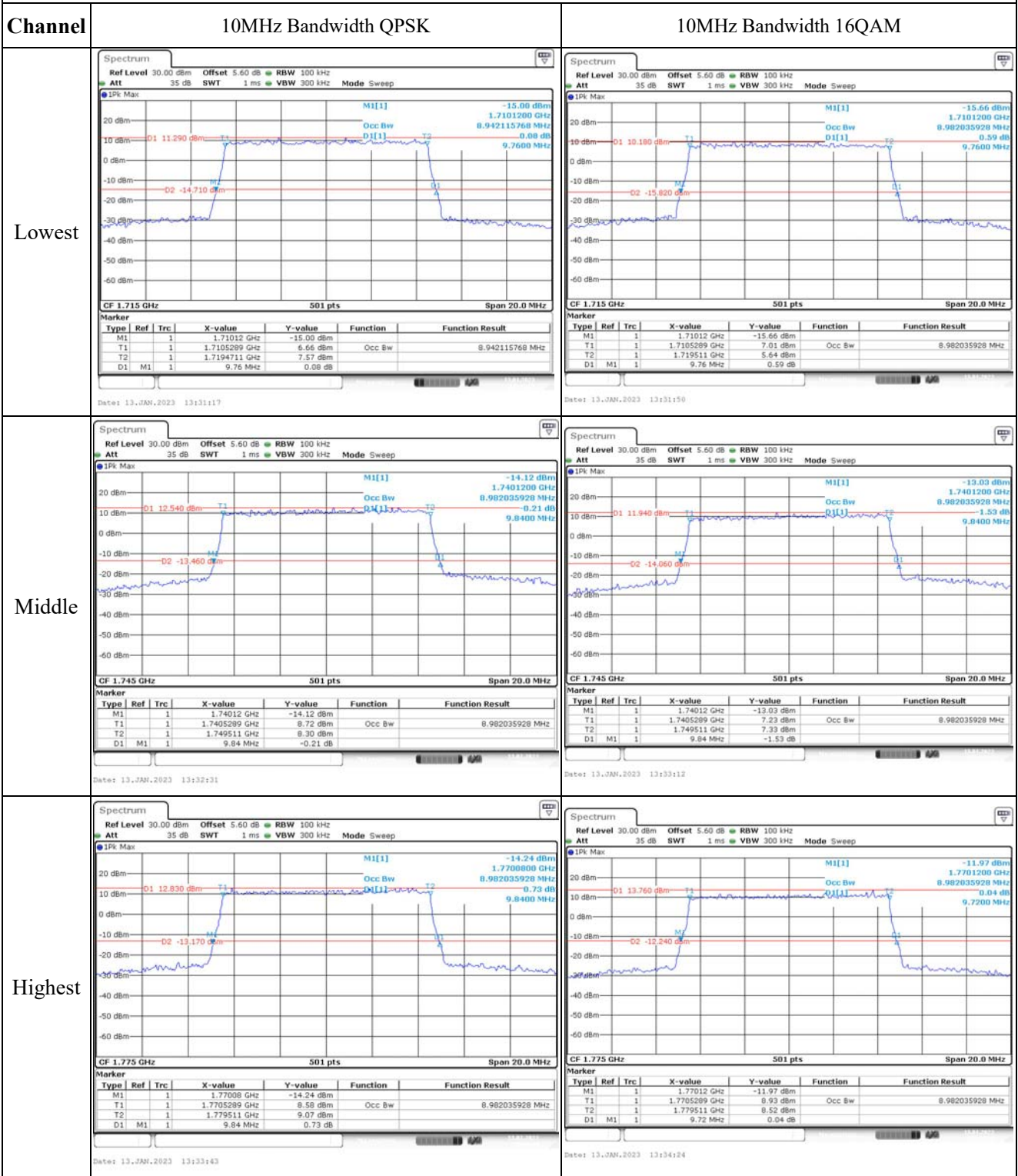
Occupied Bandwidth



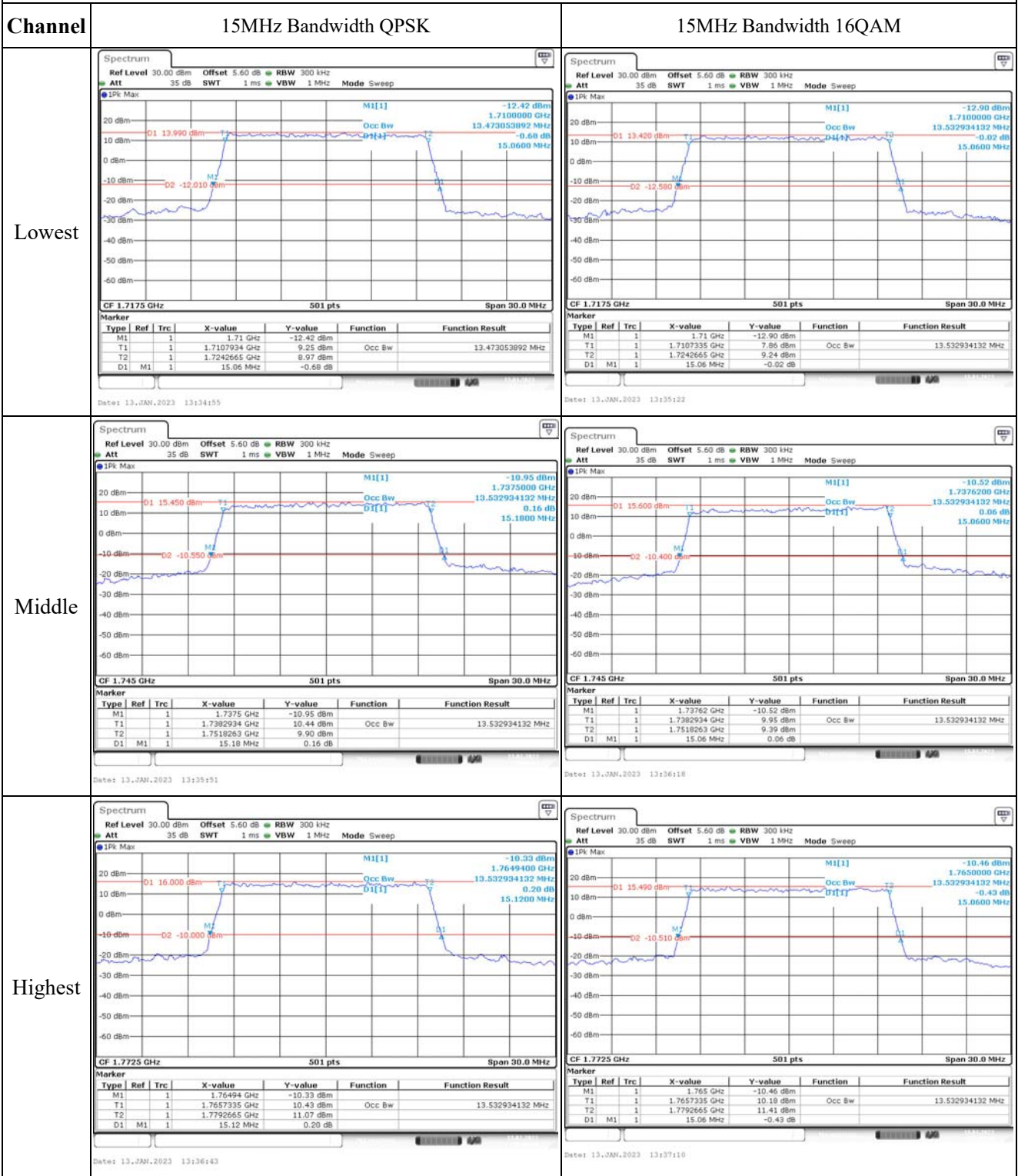
Occupied Bandwidth



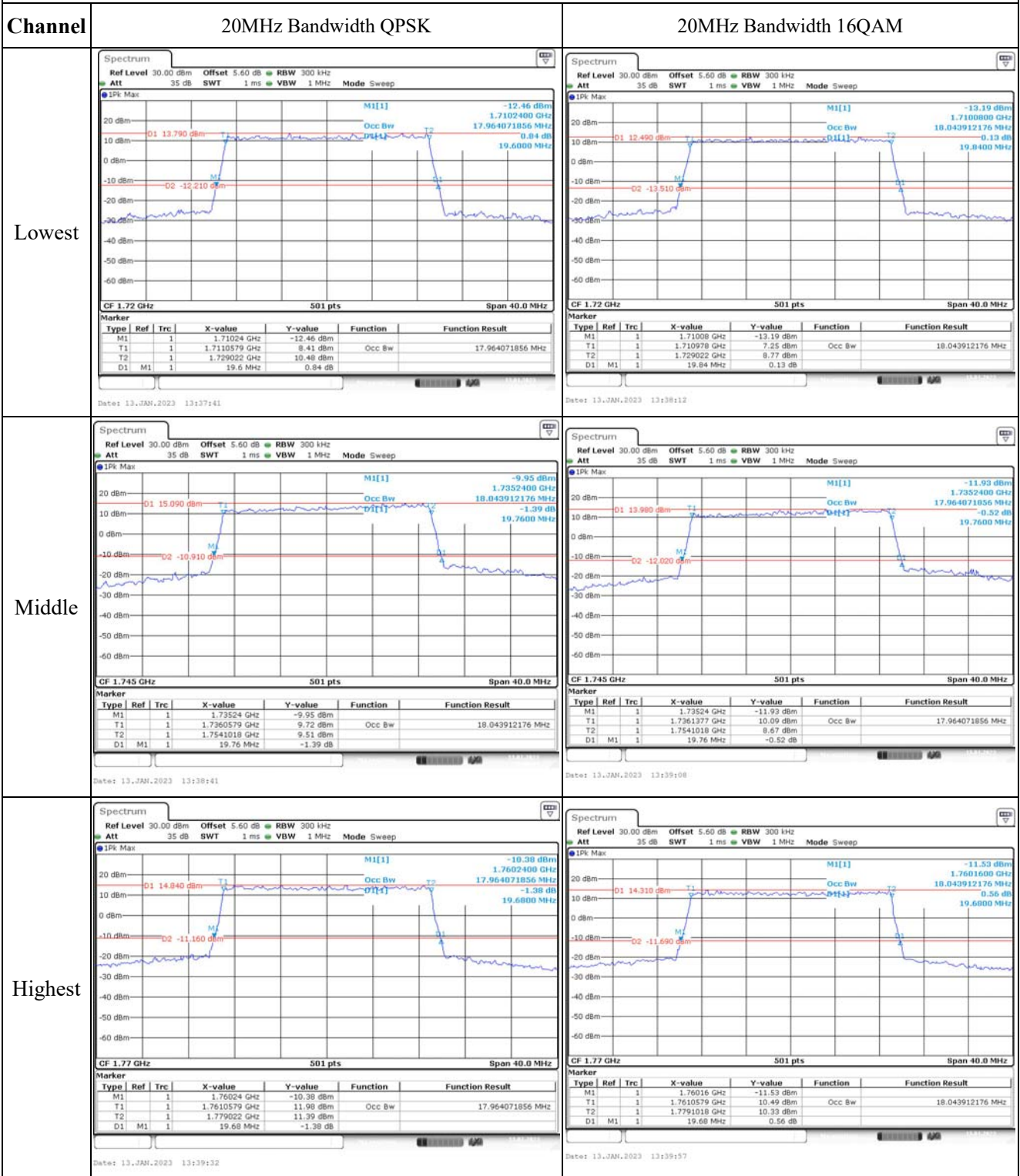
Occupied Bandwidth



Occupied Bandwidth



Occupied Bandwidth

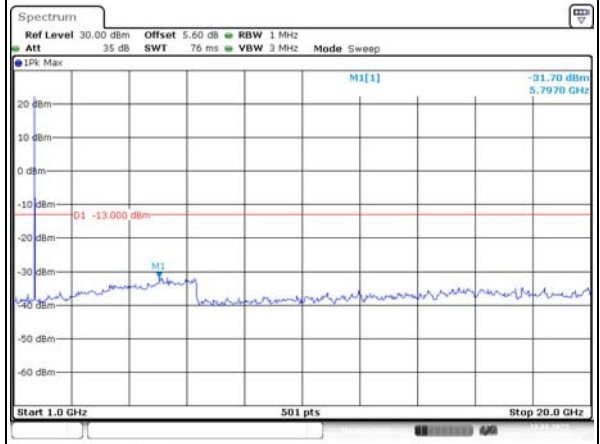
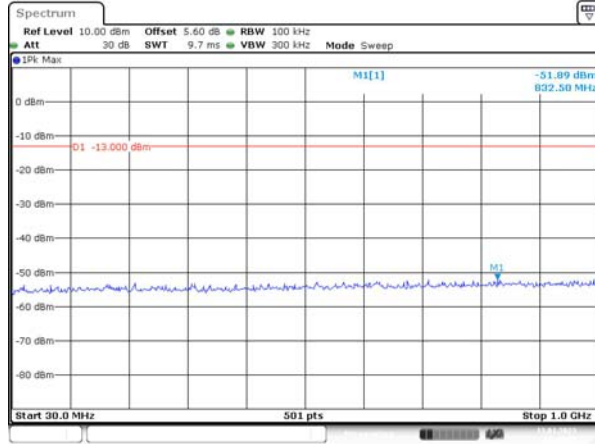


Spurious Emissions at Antenna Terminal

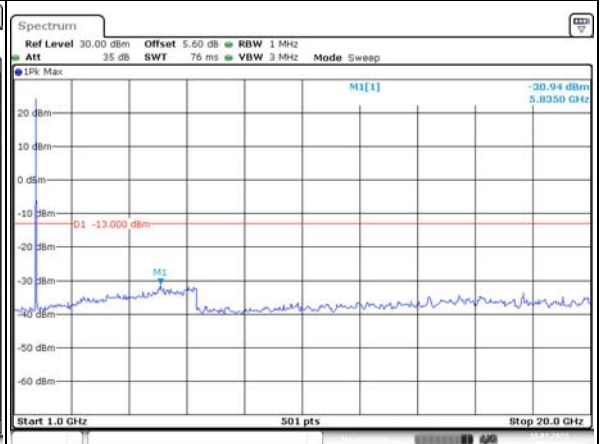
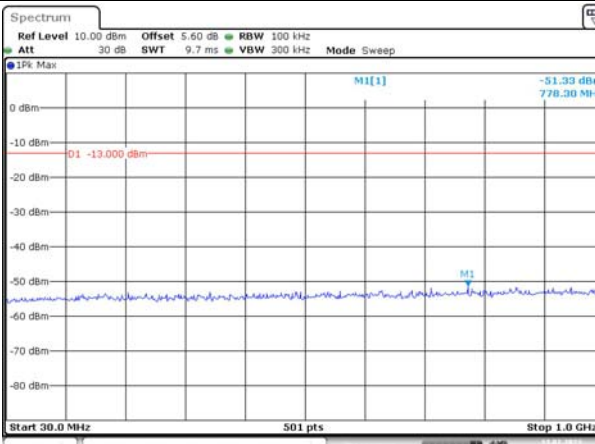
Channel

1.4MHz Bandwidth QPSK

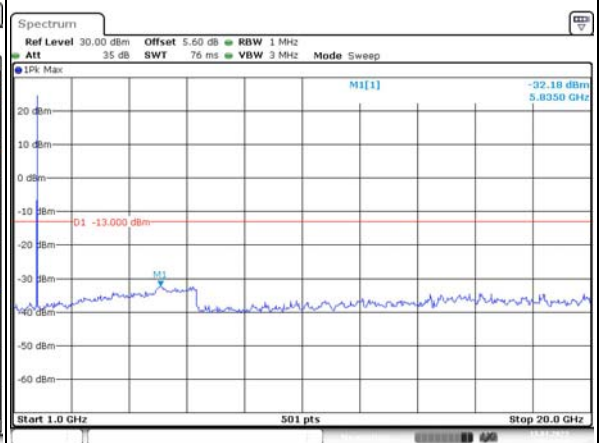
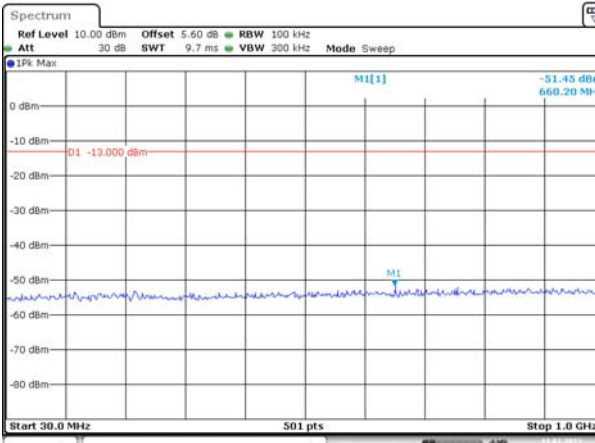
Lowest



Middle



Highest



Spurious Emissions at Antenna Terminal

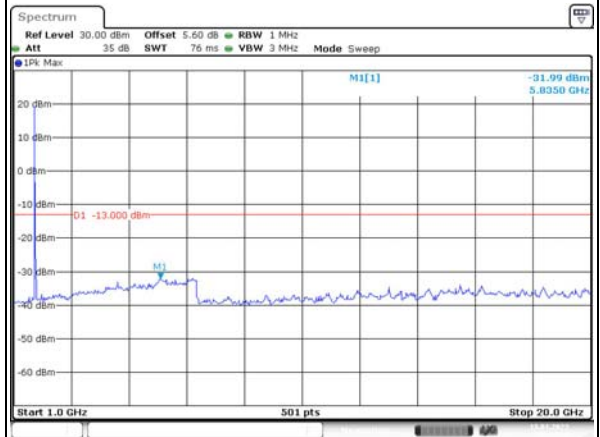
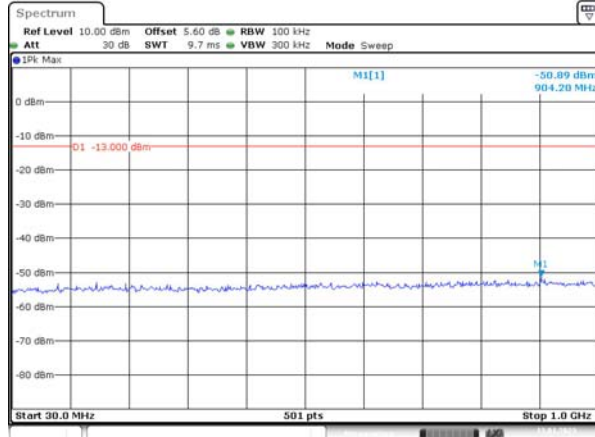
Channel	3MHz Bandwidth QPSK	
Lowest	<p>Spectrum Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -50.78 dBm 834.50 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 13.JAN.2023 10:17:25</p>	<p>Spectrum Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -30.80 dBm 5.8350 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 13.JAN.2023 10:18:02</p>
Middle	<p>Spectrum Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -51.62 dBm 995.20 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 13.JAN.2023 10:18:42</p>	<p>Spectrum Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -31.85 dBm 6.3280 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 13.JAN.2023 10:19:12</p>
Highest	<p>Spectrum Ref Level 10.00 dBm Offset 5.60 dB RBW 100 kHz Att 30 dB SWT 9.7 ms VBW 300 kHz Mode Sweep 1Pk Max M1[1] -49.51 dBm 910.00 MHz -13.000 dBm Start 30.0 MHz 501 pts Stop 1.0 GHz Date: 13.JAN.2023 10:19:52</p>	<p>Spectrum Ref Level 30.00 dBm Offset 5.60 dB RBW 1 MHz Att 35 dB SWT 76 ms VBW 3 MHz Mode Sweep 1Pk Max M1[1] -30.64 dBm 6.7460 GHz -13.000 dBm Start 1.0 GHz 501 pts Stop 20.0 GHz Date: 13.JAN.2023 10:20:22</p>

Spurious Emissions at Antenna Terminal

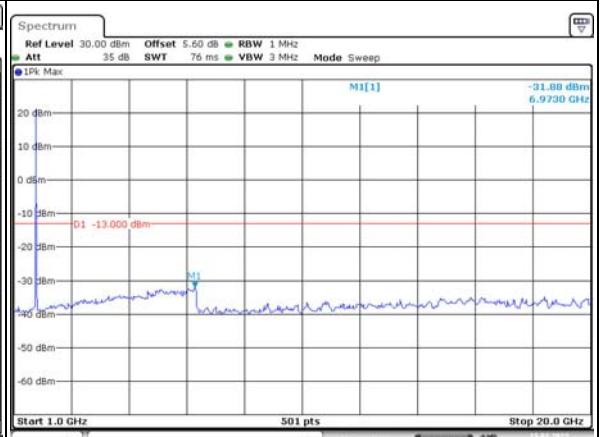
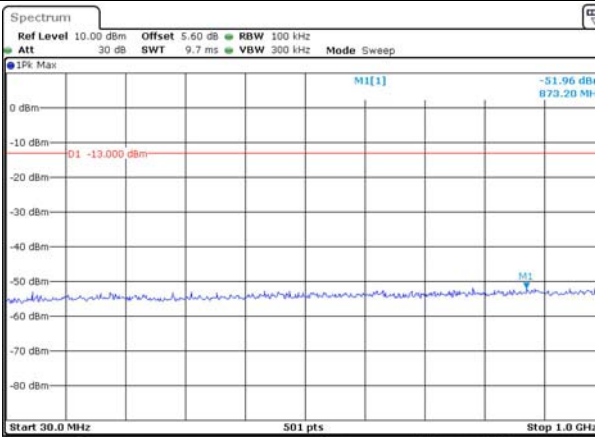
Channel

5MHz Bandwidth QPSK

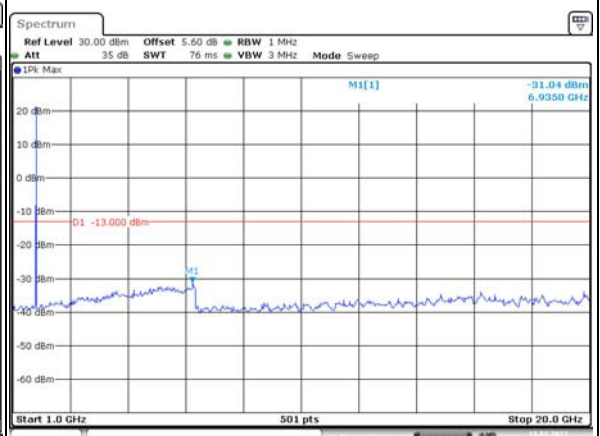
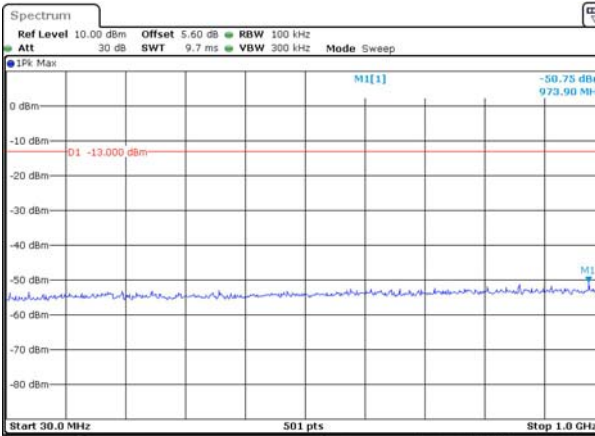
Lowest



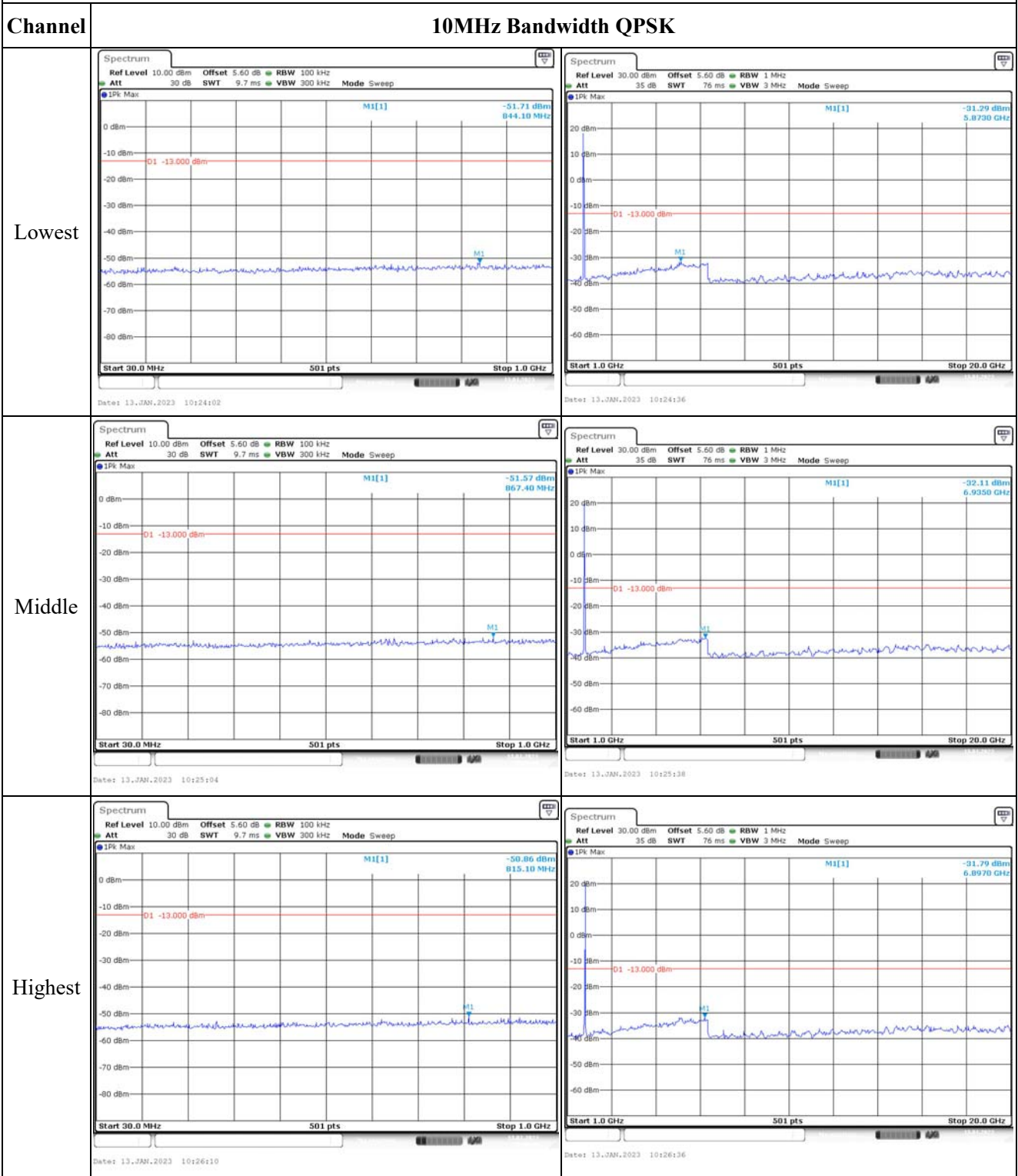
Middle



Highest



Spurious Emissions at Antenna Terminal

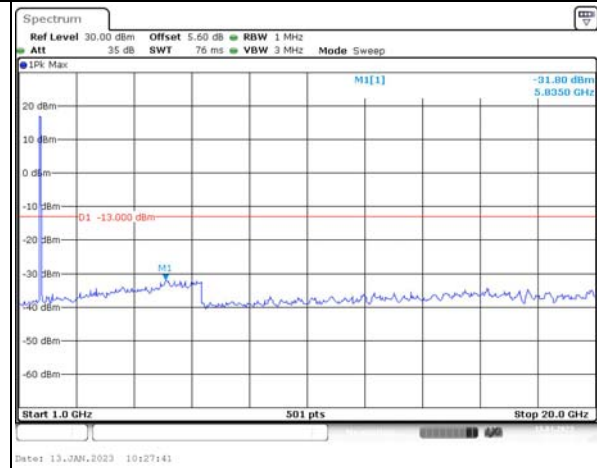
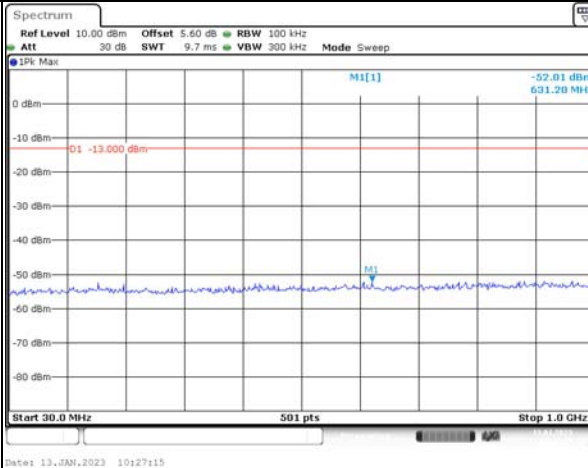


Spurious Emissions at Antenna Terminal

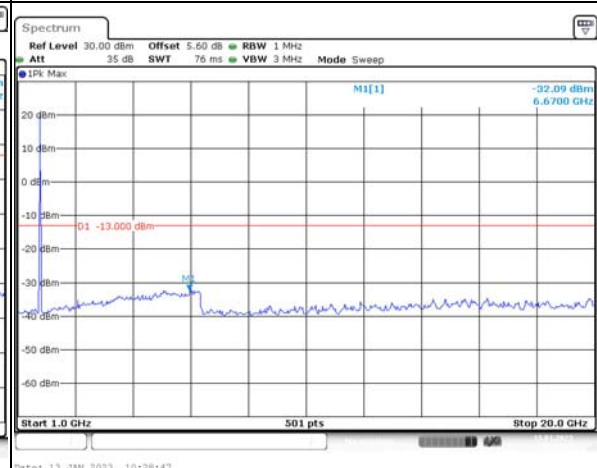
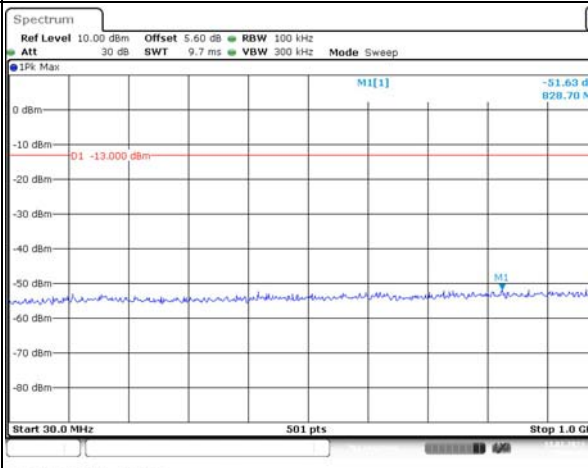
Channel

15MHz Bandwidth QPSK

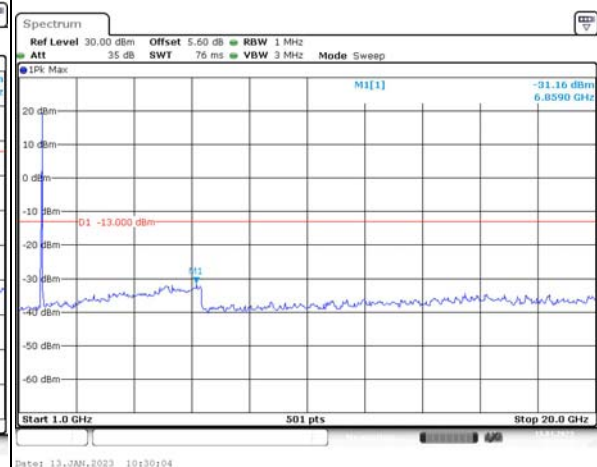
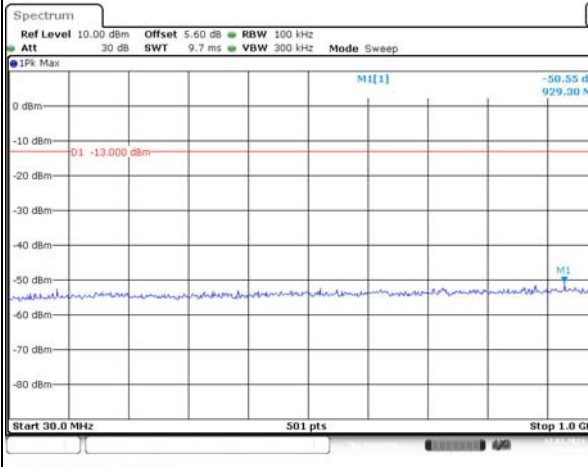
Lowest



Middle



Highest

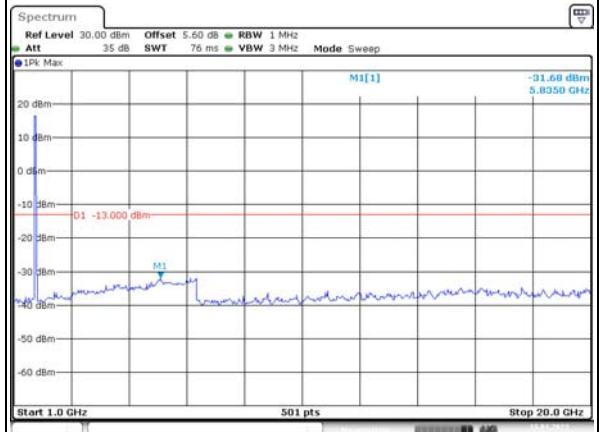
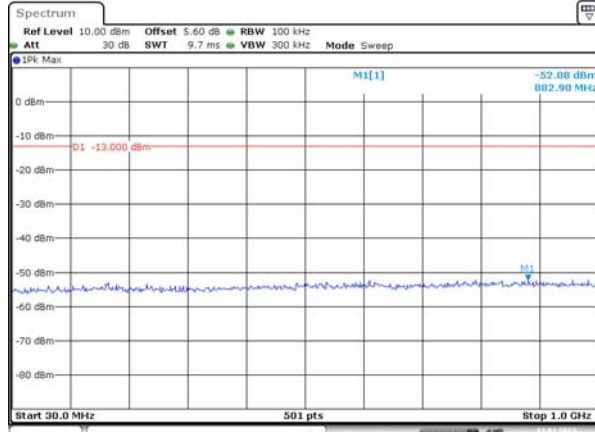


Spurious Emissions at Antenna Terminal

Channel

20MHz Bandwidth QPSK

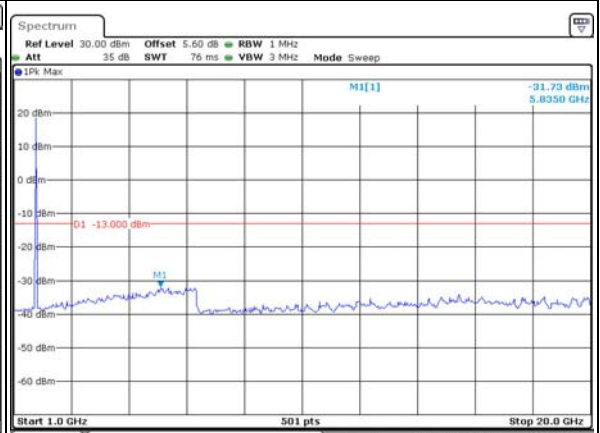
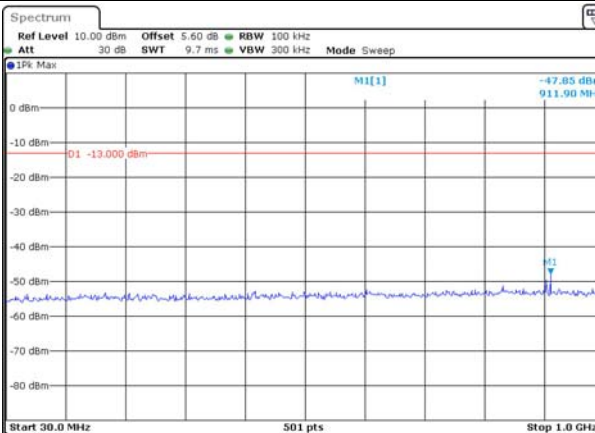
Lowest



Date: 13_JAN_2023 10:30:40

Date: 13_JAN_2023 10:31:13

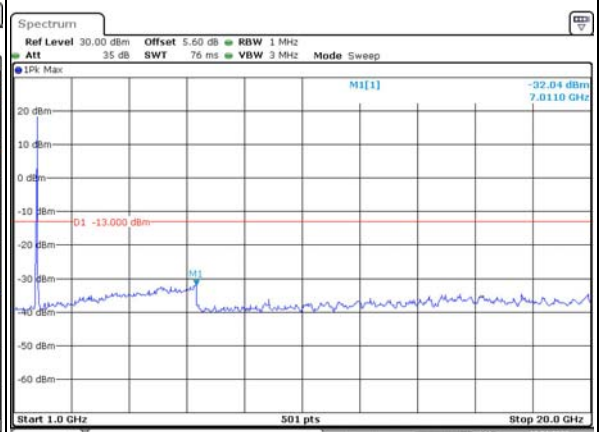
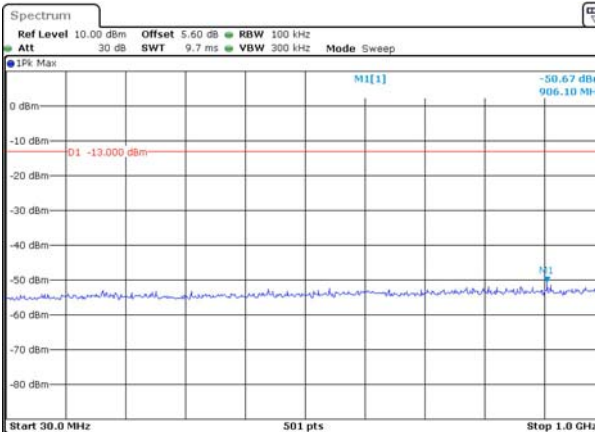
Middle



Date: 13_JAN_2023 10:31:46

Date: 13_JAN_2023 10:32:19

Highest



Date: 13_JAN_2023 10:32:55

Date: 13_JAN_2023 10:33:18

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	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -37.39 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 13.JAN.2023 11:41:14</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -33.76 dBm 1.7800000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 20.0 MHz Date: 13.JAN.2023 11:41:29</p>
QPSK 15MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -33.04 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 13.JAN.2023 11:41:48</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -30.13 dBm 1.7800000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 30.0 MHz Date: 13.JAN.2023 11:42:04</p>
QPSK 20MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -36.22 dBm 1.7100000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 13.JAN.2023 11:42:23</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 300 kHz Att 35 dB SWT 35 ms VBW 1 MHz Mode Sweep SGL Count 50/50 1Pm AvgPwr MI[1] -32.96 dBm 1.7800000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 40.0 MHz Date: 13.JAN.2023 11:42:40</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -94.38 dBm 1.71000000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 13.JAN.2023 11:39:52</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -29.93 dBm 1.78000000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 13.JAN.2023 11:40:04</p>
16QAM 3MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -29.29 dBm 1.71000000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 13.JAN.2023 11:40:20</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 30 kHz Att 35 dB SWT 35 ms VBW 100 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -26.99 dBm 1.78000000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 13.JAN.2023 11:40:34</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -31.41 dBm 1.71000000 GHz -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 13.JAN.2023 11:40:50</p>	<p>Ref Level 30.00 dBm Offset 5.60 dB RBW 100 kHz Att 35 dB SWT 35 ms VBW 300 kHz Mode Sweep SGL Count 50/50 1Pm AvgPwr M1[1] -27.23 dBm 1.78000000 GHz -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 13.JAN.2023 11:41:04</p>

Out of band emission, Band Edge

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

4.13 Radiated Spurious Emissions

Serial Number:	1WTO-1	Test Date:	2023/1/7~2023/1/17
Test Site:	996-1, 966-2	Test Mode:	Transmitting
Tester:	Carl Xue, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.1~22.7	Relative Humidity: (%)	46~50	ATM Pressure: (kPa)	101.2~101.8
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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	2023/03/01
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
Agilent	Signal Generator	E8247C	MY43321352	2022/04/01	2023/03/31
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 (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								
680.96	H	20.98	-52.44	0.00	0.52	-52.96	-13.00	39.96
688.16	V	21.02	-49.11	0.00	0.54	-49.65	-13.00	36.65
1648.400	H	43.73	-60.60	8.68	0.80	-52.72	-13.00	39.72
1648.400	V	44.77	-59.64	8.68	0.80	-51.76	-13.00	38.76
2472.600	H	51.73	-49.05	9.38	1.00	-40.67	-13.00	27.67
2472.600	V	56.75	-43.98	9.38	1.00	-35.60	-13.00	22.60
3296.800	H	43.58	-53.10	10.32	1.15	-43.93	-13.00	30.93
3296.800	V	41.97	-54.47	10.32	1.15	-45.30	-13.00	32.30
GSM 850 Frequency:836.6MHz								
720.22	H	21.63	-51.28	0.00	0.49	-51.77	-13.00	38.77
727.83	V	21.26	-48.05	0.00	0.52	-48.57	-13.00	35.57
1673.200	H	45.34	-58.97	8.71	0.85	-51.11	-13.00	38.11
1673.200	V	46.64	-57.77	8.71	0.85	-49.91	-13.00	36.91
2509.800	H	53.48	-47.13	9.42	1.01	-38.72	-13.00	25.72
2509.800	V	56.03	-44.59	9.42	1.01	-36.18	-13.00	23.18
3346.400	H	46.03	-51.14	10.34	1.16	-41.96	-13.00	28.96
3346.400	V	47.09	-49.94	10.34	1.16	-40.76	-13.00	27.76
GSM 850 Frequency:848.8MHz								
714.29	H	21.51	-51.52	0.00	0.50	-52.02	-13.00	39.02
726.92	V	21.20	-48.13	0.00	0.52	-48.65	-13.00	35.65
1697.600	H	47.24	-57.05	8.74	0.90	-49.21	-13.00	36.21
1697.600	V	53.33	-51.09	8.74	0.90	-43.25	-13.00	30.25
2546.400	H	52.06	-48.27	9.47	1.01	-39.81	-13.00	26.81
2546.400	V	52.82	-47.46	9.47	1.01	-39.00	-13.00	26.00
3395.200	H	47.90	-49.79	10.36	1.19	-40.62	-13.00	27.62
3395.200	V	47.06	-50.60	10.36	1.19	-41.43	-13.00	28.43

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								
709.29	H	21.42	-51.71	0.00	0.52	-52.23	-13.00	39.23
562.87	V	21.34	-50.33	0.00	0.46	-50.79	-13.00	37.79
1652.800	H	41.74	-62.59	8.68	0.81	-54.72	-13.00	41.72
1652.800	V	42.84	-61.57	8.68	0.81	-53.70	-13.00	40.70
2479.200	H	44.44	-56.32	9.39	1.01	-47.94	-13.00	34.94
2479.200	V	46.93	-53.80	9.39	1.01	-45.42	-13.00	32.42
3305.600	H	35.12	-61.61	10.32	1.15	-52.44	-13.00	39.44
3305.600	V	35.55	-60.95	10.32	1.15	-51.78	-13.00	38.78
WCDMA Band 5 Frequency:836.6MHz								
711.78	H	21.50	-51.58	0.00	0.51	-52.09	-13.00	39.09
721.83	V	21.71	-47.73	0.00	0.50	-48.23	-13.00	35.23
1673.200	H	41.12	-63.19	8.71	0.85	-55.33	-13.00	42.33
1673.200	V	35.44	-68.97	8.71	0.85	-61.11	-13.00	48.11
2509.800	H	45.53	-55.08	9.42	1.01	-46.67	-13.00	33.67
2509.800	V	47.07	-53.55	9.42	1.01	-45.14	-13.00	32.14
3346.400	H	35.78	-61.39	10.34	1.16	-52.21	-13.00	39.21
3346.400	V	36.23	-60.80	10.34	1.16	-51.62	-13.00	38.62
WCDMA Band 5 Frequency:846.6MHz								
570.82	H	21.34	-53.09	0.00	0.46	-53.55	-13.00	40.55
726.89	V	21.02	-48.31	0.00	0.52	-48.83	-13.00	35.83
1693.200	H	43.94	-60.36	8.73	0.89	-52.52	-13.00	39.52
1693.200	V	44.05	-60.37	8.73	0.89	-52.53	-13.00	39.53
2539.800	H	46.64	-53.74	9.46	1.01	-45.29	-13.00	32.29
2539.800	V	45.62	-54.72	9.46	1.01	-46.27	-13.00	33.27
3386.400	H	35.45	-62.14	10.35	1.18	-52.97	-13.00	39.97
3386.400	V	36.27	-61.27	10.35	1.18	-52.10	-13.00	39.10

PCS Band (PART 24E)**30 MHz-20 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
GSM 1900 Frequency:1850.2MHz								
158.11	H	41.52	-70.15	0.00	0.23	-70.38	-13.00	57.38
89.59	V	40.77	-68.53	0.00	0.18	-68.71	-13.00	55.71
3700.400	H	37.81	-59.51	10.60	1.25	-50.16	-13.00	37.16
3700.400	V	38.89	-58.41	10.60	1.25	-49.06	-13.00	36.06
5550.600	H	35.44	-57.82	11.44	1.49	-47.87	-13.00	34.87
5550.600	V	35.46	-57.64	11.44	1.49	-47.69	-13.00	34.69
GSM 1900 Frequency:1880MHz								
160.90	H	41.40	-70.24	0.00	0.24	-70.48	-13.00	57.48
89.90	V	41.28	-68.04	0.00	0.18	-68.22	-13.00	55.22
3760.000	H	38.74	-57.67	10.66	1.24	-48.25	-13.00	35.25
3760.000	V	36.44	-59.85	10.66	1.24	-50.43	-13.00	37.43
5640.000	H	40.90	-52.55	11.33	1.54	-42.76	-13.00	29.76
5640.000	V	35.78	-57.55	11.33	1.54	-47.76	-13.00	34.76
GSM 1900 Frequency:1909.8MHz								
164.33	H	42.13	-69.66	0.00	0.24	-69.90	-13.00	56.90
89.90	V	42.90	-66.42	0.00	0.18	-66.60	-13.00	53.60
3819.600	H	35.62	-60.24	10.72	1.29	-50.81	-13.00	37.81
3819.600	V	36.44	-59.28	10.72	1.29	-49.85	-13.00	36.85
5729.400	H	34.18	-59.30	11.22	1.59	-49.67	-13.00	36.67
5729.400	V	35.85	-57.51	11.22	1.59	-47.88	-13.00	34.88

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								
281.01	H	43.22	-67.95	0.00	0.32	-68.27	-13.00	55.27
89.28	V	43.76	-65.52	0.00	0.18	-65.70	-13.00	52.70
3704.800	H	42.33	-54.93	10.60	1.25	-45.58	-13.00	32.58
3704.800	V	39.14	-58.09	10.60	1.25	-48.74	-13.00	35.74
5557.200	H	35.46	-57.82	11.43	1.49	-47.88	-13.00	34.88
5557.200	V	36.12	-57.01	11.43	1.49	-47.07	-13.00	34.07
WCDMA Band II, Frequency:1880 MHz								
284.97	H	41.80	-69.27	0.00	0.32	-69.59	-13.00	56.59
89.53	V	44.28	-65.01	0.00	0.18	-65.19	-13.00	52.19
3760.000	H	45.63	-50.78	10.66	1.24	-41.36	-13.00	28.36
3760.000	V	42.08	-54.21	10.66	1.24	-44.79	-13.00	31.79
5640.000	H	34.56	-58.89	11.33	1.54	-49.10	-13.00	36.10
5640.000	V	35.62	-57.71	11.33	1.54	-47.92	-13.00	34.92
WCDMA Band II, Frequency:1907.6MHz								
281.99	H	41.61	-69.54	0.00	0.32	-69.86	-13.00	56.86
91.81	V	41.30	-67.61	0.00	0.18	-67.79	-13.00	54.79
3815.200	H	46.21	-49.64	10.72	1.29	-40.21	-13.00	27.21
3815.200	V	43.23	-52.46	10.72	1.29	-43.03	-13.00	30.03
5722.800	H	35.77	-57.72	11.23	1.58	-48.07	-13.00	35.07
5722.800	V	36.58	-56.77	11.23	1.58	-47.12	-13.00	34.12

AWS Band(Part 27)

30 MHz-20 GHz:

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 IV, Frequency:1712.4 MHz								
294.11	H	41.65	-69.21	0.00	0.33	-69.54	-13.00	56.54
91.17	V	41.27	-67.79	0.00	0.18	-67.97	-13.00	54.97
3424.800	H	40.09	-57.68	10.37	1.17	-48.48	-13.00	35.48
3424.800	V	41.50	-56.24	10.37	1.17	-47.04	-13.00	34.04
5137.200	H	34.69	-58.93	11.28	1.46	-49.11	-13.00	36.11
5137.200	V	35.46	-58.04	11.28	1.46	-48.22	-13.00	35.22
WCDMA Band IV, Frequency:1732.6 MHz								
295.14	H	42.15	-68.68	0.00	0.33	-69.01	-13.00	56.01
90.58	V	40.73	-68.47	0.00	0.18	-68.65	-13.00	55.65
3465.200	H	40.20	-57.61	10.39	1.15	-48.37	-13.00	35.37
3465.200	V	40.70	-57.07	10.39	1.15	-47.83	-13.00	34.83
5197.800	H	34.62	-59.51	11.32	1.44	-49.63	-13.00	36.63
5197.800	V	35.55	-58.43	11.32	1.44	-48.55	-13.00	35.55
WCDMA Band IV, Frequency:1752.6MHz								
295.14	H	43.16	-67.67	0.00	0.33	-68.00	-13.00	55.00
89.27	V	42.69	-66.59	0.00	0.18	-66.77	-13.00	53.77
3505.200	H	37.24	-60.59	10.41	1.18	-51.36	-13.00	38.36
3505.200	V	39.18	-58.59	10.41	1.18	-49.36	-13.00	36.36
5257.800	H	34.68	-59.05	11.35	1.47	-49.17	-13.00	36.17
5257.800	V	35.23	-58.28	11.35	1.47	-48.40	-13.00	35.40

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								
283.97	H	45.10	-66.00	0.00	0.32	-66.32	-13.00	53.32
89.59	V	44.71	-64.59	0.00	0.18	-64.77	-13.00	51.77
3701.400	H	45.13	-52.18	10.60	1.25	-42.83	-13.00	29.83
3701.400	V	41.23	-56.06	10.60	1.25	-46.71	-13.00	33.71
5552.100	H	39.47	-53.80	11.44	1.49	-43.85	-13.00	30.85
5552.100	V	38.14	-54.96	11.44	1.49	-45.01	-13.00	32.01
QPSK, Frequency: 1880 MHz								
284.97	H	44.85	-66.22	0.00	0.32	-66.54	-13.00	53.54
88.96	V	44.31	-64.94	0.00	0.18	-65.12	-13.00	52.12
3760.000	H	50.18	-46.23	10.66	1.24	-36.81	-13.00	23.81
3760.000	V	44.99	-51.30	10.66	1.24	-41.88	-13.00	28.88
5640.000	H	40.45	-53.00	11.33	1.54	-43.21	-13.00	30.21
5640.000	V	37.18	-56.15	11.33	1.54	-46.36	-13.00	33.36
QPSK, Frequency: 1909.3 MHz								
284.97	H	44.46	-66.61	0.00	0.32	-66.93	-13.00	53.93
89.27	V	44.34	-64.94	0.00	0.18	-65.12	-13.00	52.12
3818.600	H	47.87	-47.99	10.72	1.29	-38.56	-13.00	25.56
3818.600	V	42.50	-53.21	10.72	1.29	-43.78	-13.00	30.78
5727.900	H	40.35	-53.13	11.23	1.59	-43.49	-13.00	30.49
5727.900	V	37.52	-55.84	11.23	1.59	-46.20	-13.00	33.20

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								
281.99	H	43.46	-67.69	0.00	0.32	-68.01	-13.00	55.01
89.90	V	44.59	-64.73	0.00	0.18	-64.91	-13.00	51.91
3421.400	H	47.39	-50.37	10.37	1.17	-41.17	-13.00	28.17
3421.400	V	48.03	-49.70	10.37	1.17	-40.50	-13.00	27.50
5132.100	H	39.73	-53.84	11.28	1.47	-44.03	-13.00	31.03
5132.100	V	34.86	-58.60	11.28	1.47	-48.79	-13.00	35.79
QPSK, Frequency: 1732.5 MHz								
283.98	H	44.06	-67.04	0.00	0.32	-67.36	-13.00	54.36
89.91	V	44.66	-64.66	0.00	0.18	-64.84	-13.00	51.84
3465.000	H	46.86	-50.95	10.39	1.15	-41.71	-13.00	28.71
3465.000	V	47.39	-50.38	10.39	1.15	-41.14	-13.00	28.14
5197.500	H	34.77	-59.36	11.32	1.44	-49.48	-13.00	36.48
5197.500	V	35.11	-58.87	11.32	1.44	-48.99	-13.00	35.99
QPSK, Frequency: 1754.3MHz								
153.20	H	43.20	-68.64	0.00	0.23	-68.87	-13.00	55.87
89.59	V	44.49	-64.81	0.00	0.18	-64.99	-13.00	51.99
3508.600	H	40.94	-56.88	10.41	1.19	-47.66	-13.00	34.66
3508.600	V	44.05	-53.71	10.41	1.19	-44.49	-13.00	31.49
5262.900	H	35.10	-58.60	11.36	1.47	-48.71	-13.00	35.71
5262.900	V	36.24	-57.23	11.36	1.47	-47.34	-13.00	34.34

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, Frequency: 824.7 MHz								
726.89	H	21.48	-51.30	0.00	0.52	-51.82	-13.00	38.82
704.33	V	21.13	-48.70	0.00	0.55	-49.25	-13.00	36.25
1649.400	H	43.70	-60.63	8.68	0.80	-52.75	-13.00	39.75
1649.400	V	43.14	-61.27	8.68	0.80	-53.39	-13.00	40.39
2474.100	H	52.47	-48.31	9.38	1.00	-39.93	-13.00	26.93
2474.100	V	47.57	-53.16	9.38	1.00	-44.78	-13.00	31.78
3298.800	H	37.53	-59.15	10.32	1.15	-49.98	-13.00	36.98
3298.800	V	37.92	-58.52	10.32	1.15	-49.35	-13.00	36.35
QPSK, Frequency: 836.5 MHz								
716.79	H	21.55	-51.43	0.00	0.50	-51.93	-13.00	38.93
724.36	V	21.18	-48.21	0.00	0.51	-48.72	-13.00	35.72
1673.000	H	39.90	-64.41	8.71	0.85	-56.55	-13.00	43.55
1673.000	V	38.83	-65.58	8.71	0.85	-57.72	-13.00	44.72
2509.500	H	51.89	-48.72	9.42	1.01	-40.31	-13.00	27.31
2509.500	V	48.54	-52.08	9.42	1.01	-43.67	-13.00	30.67
3346.000	H	37.49	-59.67	10.34	1.16	-50.49	-13.00	37.49
3346.000	V	37.08	-59.94	10.34	1.16	-50.76	-13.00	37.76
QPSK, Frequency: 848.3 MHz								
629.66	H	22.25	-51.45	0.00	0.48	-51.93	-13.00	38.93
512.09	V	20.83	-50.77	0.00	0.45	-51.22	-13.00	38.22
1696.600	H	43.14	-61.15	8.74	0.89	-53.30	-13.00	40.30
1696.600	V	43.85	-60.57	8.74	0.89	-52.72	-13.00	39.72
2544.900	H	51.58	-48.76	9.47	1.01	-40.30	-13.00	27.30
2544.900	V	45.90	-54.40	9.47	1.01	-45.94	-13.00	32.94
3393.200	H	39.12	-58.55	10.36	1.19	-49.38	-13.00	36.38
3393.200	V	36.50	-61.13	10.36	1.19	-51.96	-13.00	38.96

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, Frequency: 699.7 MHz								
454.50	H	20.81	-55.95	0.00	0.42	-56.37	-13.00	43.37
576.75	V	20.96	-50.74	0.00	0.46	-51.20	-13.00	38.20
1399.400	H	36.45	-67.25	8.22	0.71	-59.74	-13.00	46.74
1399.400	V	35.11	-68.64	8.22	0.71	-61.13	-13.00	48.13
2099.100	H	40.77	-61.11	9.16	0.91	-52.86	-13.00	39.86
2099.100	V	36.10	-65.73	9.16	0.91	-57.48	-13.00	44.48
2798.800	H	40.80	-59.13	9.88	1.04	-50.29	-13.00	37.29
2798.800	V	40.66	-59.14	9.88	1.04	-50.30	-13.00	37.30
QPSK, Frequency:707.5 MHz								
580.81	H	20.89	-53.35	0.00	0.46	-53.81	-13.00	40.81
593.15	V	21.35	-50.37	0.00	0.50	-50.87	-13.00	37.87
1415.000	H	36.25	-67.42	8.26	0.72	-59.88	-13.00	46.88
1415.000	V	37.13	-66.59	8.26	0.72	-59.05	-13.00	46.05
2122.500	H	41.47	-60.52	9.17	0.92	-52.27	-13.00	39.27
2122.500	V	37.22	-64.75	9.17	0.92	-56.50	-13.00	43.50
2830.000	H	39.12	-60.68	9.93	1.06	-51.81	-13.00	38.81
2830.000	V	39.79	-59.94	9.93	1.06	-51.07	-13.00	38.07
QPSK, Frequency: 715.3 MHz								
633.98	H	20.95	-52.73	0.00	0.51	-53.24	-13.00	40.24
562.79	V	21.47	-50.20	0.00	0.46	-50.66	-13.00	37.66
1430.600	H	36.87	-66.76	8.31	0.73	-59.18	-13.00	46.18
1430.600	V	35.23	-68.46	8.31	0.73	-60.88	-13.00	47.88
2145.900	H	39.01	-63.09	9.19	0.93	-54.83	-13.00	41.83
2145.900	V	37.14	-64.97	9.19	0.93	-56.71	-13.00	43.71
2861.200	H	37.61	-62.04	9.98	1.07	-53.13	-13.00	40.13
2861.200	V	39.73	-59.94	9.98	1.07	-51.03	-13.00	38.03

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, Frequency: 706.5 MHz								
645.17	H	20.72	-52.90	0.00	0.52	-53.42	-13.00	40.42
654.28	V	20.91	-49.84	0.00	0.52	-50.36	-13.00	37.36
1413.000	H	34.78	-68.89	8.26	0.72	-61.35	-13.00	48.35
1413.000	V	35.69	-68.03	8.26	0.72	-60.49	-13.00	47.49
2119.500	H	36.12	-65.85	9.17	0.92	-57.60	-13.00	44.60
2119.500	V	35.28	-66.67	9.17	0.92	-58.42	-13.00	45.42
2826.000	H	36.58	-63.23	9.92	1.06	-54.37	-13.00	41.37
2826.000	V	37.45	-62.29	9.92	1.06	-53.43	-13.00	40.43
QPSK, Frequency: 710 MHz								
584.90	H	20.77	-53.39	0.00	0.46	-53.85	-13.00	40.85
582.85	V	20.63	-51.07	0.00	0.46	-51.53	-13.00	38.53
1420.000	H	35.46	-68.20	8.28	0.73	-60.65	-13.00	47.65
1420.000	V	35.21	-68.50	8.28	0.73	-60.95	-13.00	47.95
2130.000	H	34.28	-67.74	9.18	0.92	-59.48	-13.00	46.48
2130.000	V	35.12	-66.89	9.18	0.92	-58.63	-13.00	45.63
2840.000	H	36.87	-62.88	9.94	1.06	-54.00	-13.00	41.00
2840.000	V	37.93	-61.78	9.94	1.06	-52.90	-13.00	39.90
QPSK, Frequency: 713.5 MHz								
560.82	H	20.62	-54.01	0.00	0.47	-54.48	-13.00	41.48
654.28	V	20.90	-49.85	0.00	0.52	-50.37	-13.00	37.37
1427.000	H	35.64	-68.00	8.30	0.73	-60.43	-13.00	47.43
1427.000	V	36.22	-67.47	8.30	0.73	-59.90	-13.00	46.90
2140.500	H	35.78	-66.29	9.18	0.93	-58.04	-13.00	45.04
2140.500	V	36.28	-65.80	9.18	0.93	-57.55	-13.00	44.55
2854.000	H	37.14	-62.55	9.97	1.07	-53.65	-13.00	40.65
2854.000	V	40.13	-59.55	9.97	1.07	-50.65	-13.00	37.65

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, Frequency: 2557.5 MHz								
282.98	H	43.43	-67.69	0.00	0.32	-68.01	-25.00	43.01
89.27	V	43.86	-65.42	0.00	0.18	-65.60	-25.00	40.60
5115.000	H	39.98	-53.45	11.27	1.51	-43.69	-25.00	18.69
5115.000	V	35.81	-57.52	11.27	1.51	-47.76	-25.00	22.76
7672.500	H	36.12	-53.39	10.87	2.03	-44.55	-25.00	19.55
7672.500	V	34.78	-55.41	10.87	2.03	-46.57	-25.00	21.57
QPSK, Frequency: 2605 MHz								
281.99	H	44.65	-66.50	0.00	0.32	-66.82	-25.00	41.82
89.59	V	41.16	-68.14	0.00	0.18	-68.32	-25.00	43.32
5210.000	H	40.81	-53.27	11.33	1.45	-43.39	-25.00	18.39
5210.000	V	35.94	-57.98	11.33	1.45	-48.10	-25.00	23.10
7815.000	H	38.77	-50.63	10.84	1.99	-41.78	-25.00	16.78
7815.000	V	37.14	-52.65	10.84	1.99	-43.80	-25.00	18.80
QPSK, Frequency: 2652.5 MHz								
285.97	H	43.50	-67.55	0.00	0.32	-67.87	-25.00	42.87
89.54	V	41.52	-67.78	0.00	0.18	-67.96	-25.00	42.96
5305.000	H	40.59	-52.85	11.38	1.46	-42.93	-25.00	17.93
5305.000	V	36.78	-56.40	11.38	1.46	-46.48	-25.00	21.48
7957.500	H	35.11	-53.31	10.81	2.09	-44.59	-25.00	19.59
7957.500	V	34.78	-54.09	10.81	2.09	-45.37	-25.00	20.37

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)			
QPSK, Frequency: 1710.7 MHz								
285.97	H	45.72	-65.33	0.00	0.32	-65.65	-13.00	52.65
161.47	V	42.77	-65.69	0.00	0.24	-65.93	-13.00	52.93
3421.400	H	47.72	-50.04	10.37	1.17	-40.84	-13.00	27.84
3421.400	V	48.49	-49.24	10.37	1.17	-40.04	-13.00	27.04
5132.100	H	39.24	-54.33	11.28	1.47	-44.52	-13.00	31.52
5132.100	V	35.65	-57.81	11.28	1.47	-48.00	-13.00	35.00
QPSK, Frequency:1745 MHz								
281.01	H	47.49	-63.68	0.00	0.32	-64.00	-13.00	51.00
182.56	V	43.27	-66.45	0.00	0.25	-66.70	-13.00	53.70
3490.000	H	45.34	-52.50	10.40	1.17	-43.27	-13.00	30.27
3490.000	V	46.01	-51.77	10.40	1.17	-42.54	-13.00	29.54
5235.000	H	35.46	-58.44	11.34	1.46	-48.56	-13.00	35.56
5235.000	V	35.07	-58.64	11.34	1.46	-48.76	-13.00	35.76
QPSK, Frequency: 1779.3 MHz								
289.02	H	47.25	-63.73	0.00	0.33	-64.06	-13.00	51.06
89.59	V	43.48	-65.82	0.00	0.18	-66.00	-13.00	53.00
3558.600	H	41.15	-56.52	10.46	1.22	-47.28	-13.00	34.28
3558.600	V	39.92	-57.65	10.46	1.22	-48.41	-13.00	35.41
5337.900	H	36.47	-57.00	11.40	1.47	-47.07	-13.00	34.07
5337.900	V	35.15	-58.18	11.40	1.47	-48.25	-13.00	35.25

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 =====