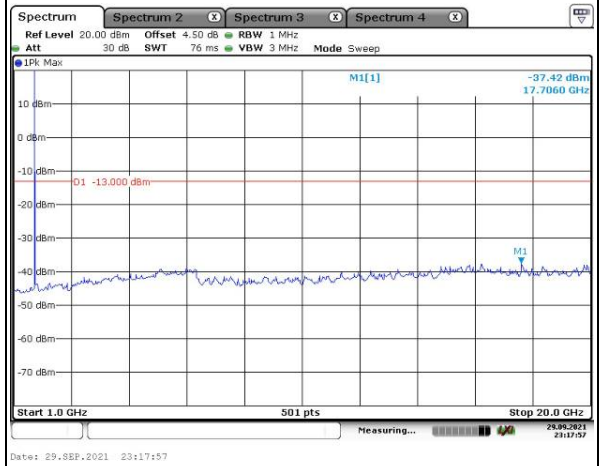
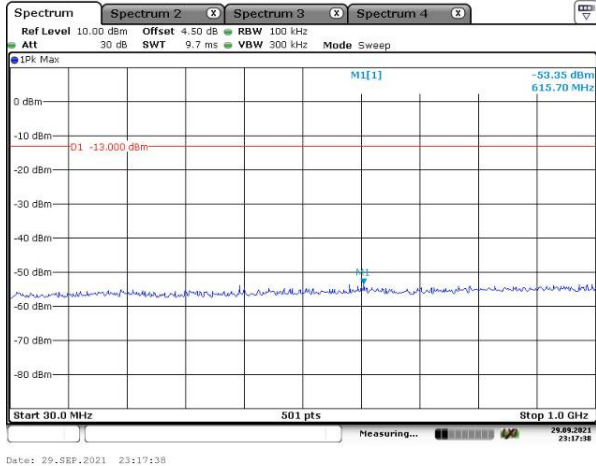


### Spurious Emissions at Antenna Terminal

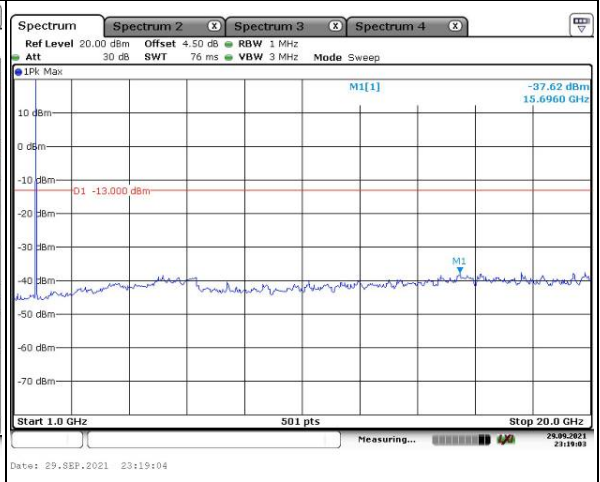
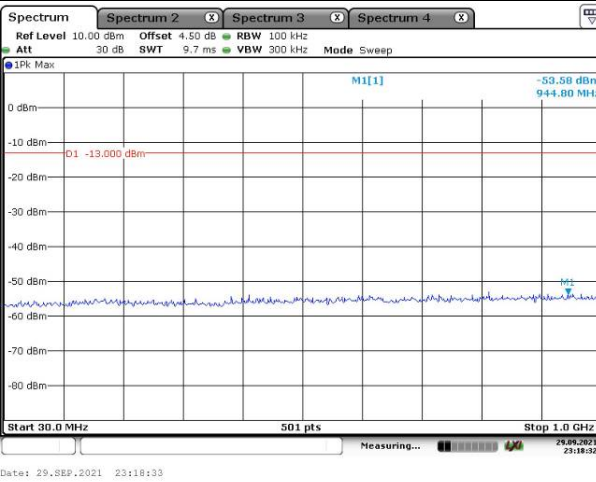
Channel

1.4MHz Bandwidth QPSK

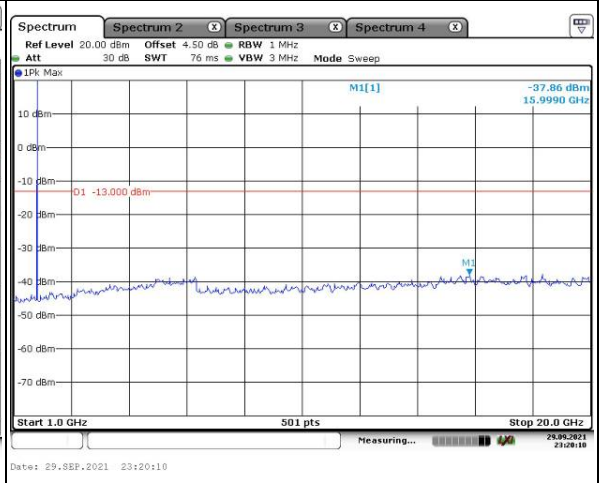
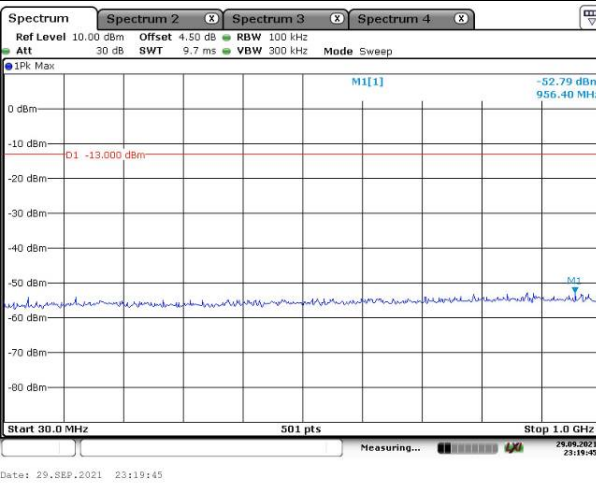
Lowest



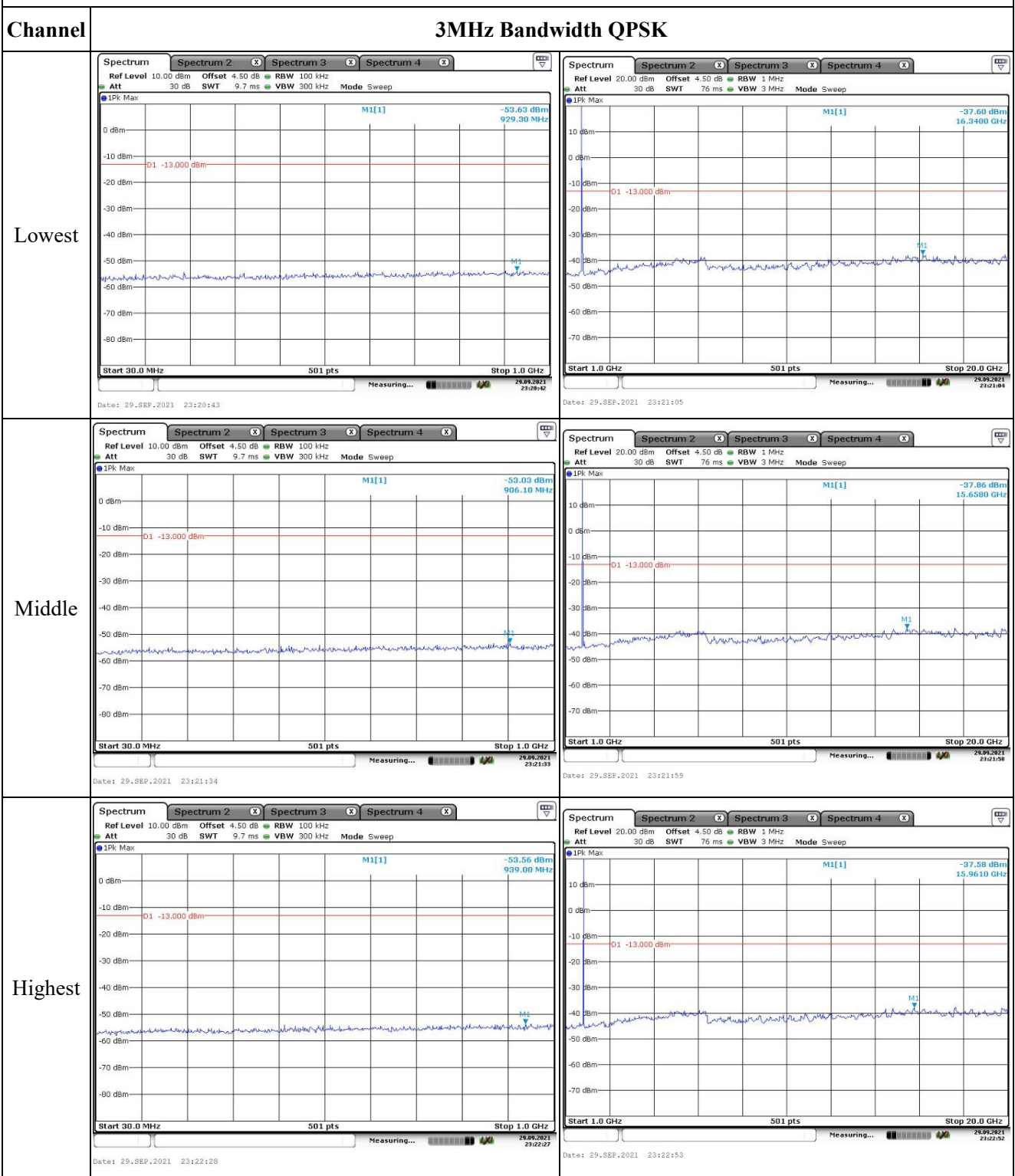
Middle



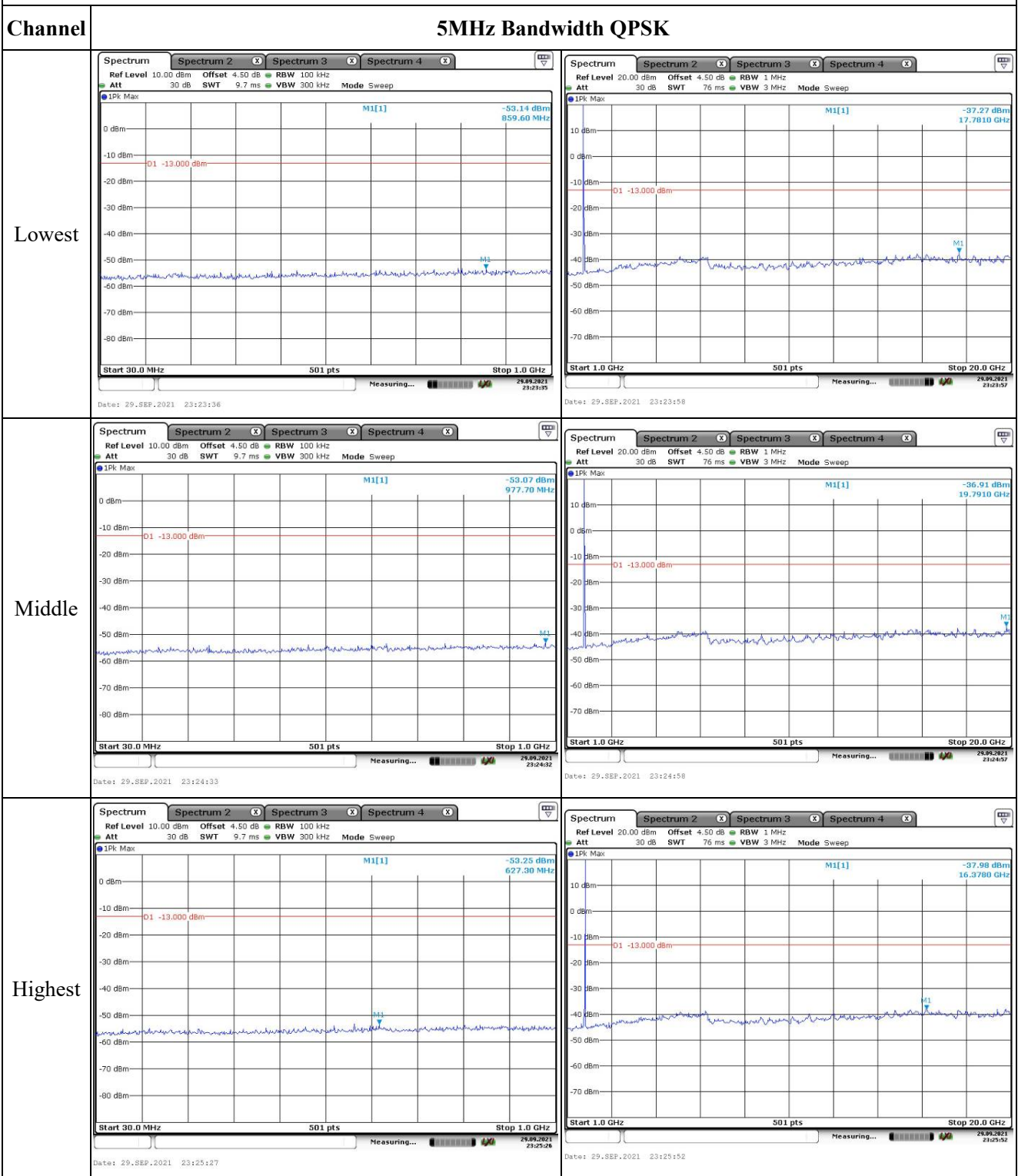
Highest



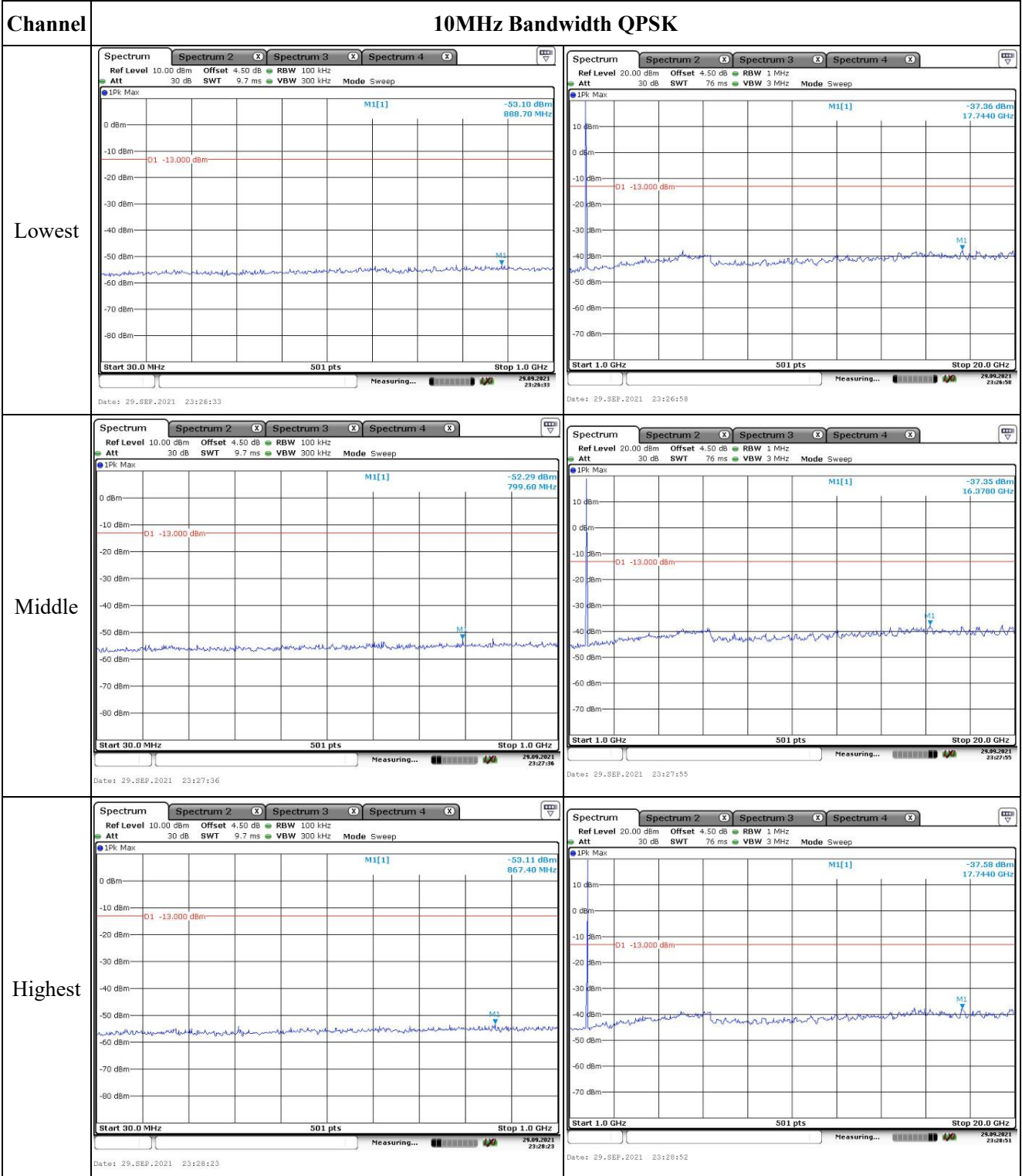
### Spurious Emissions at Antenna Terminal



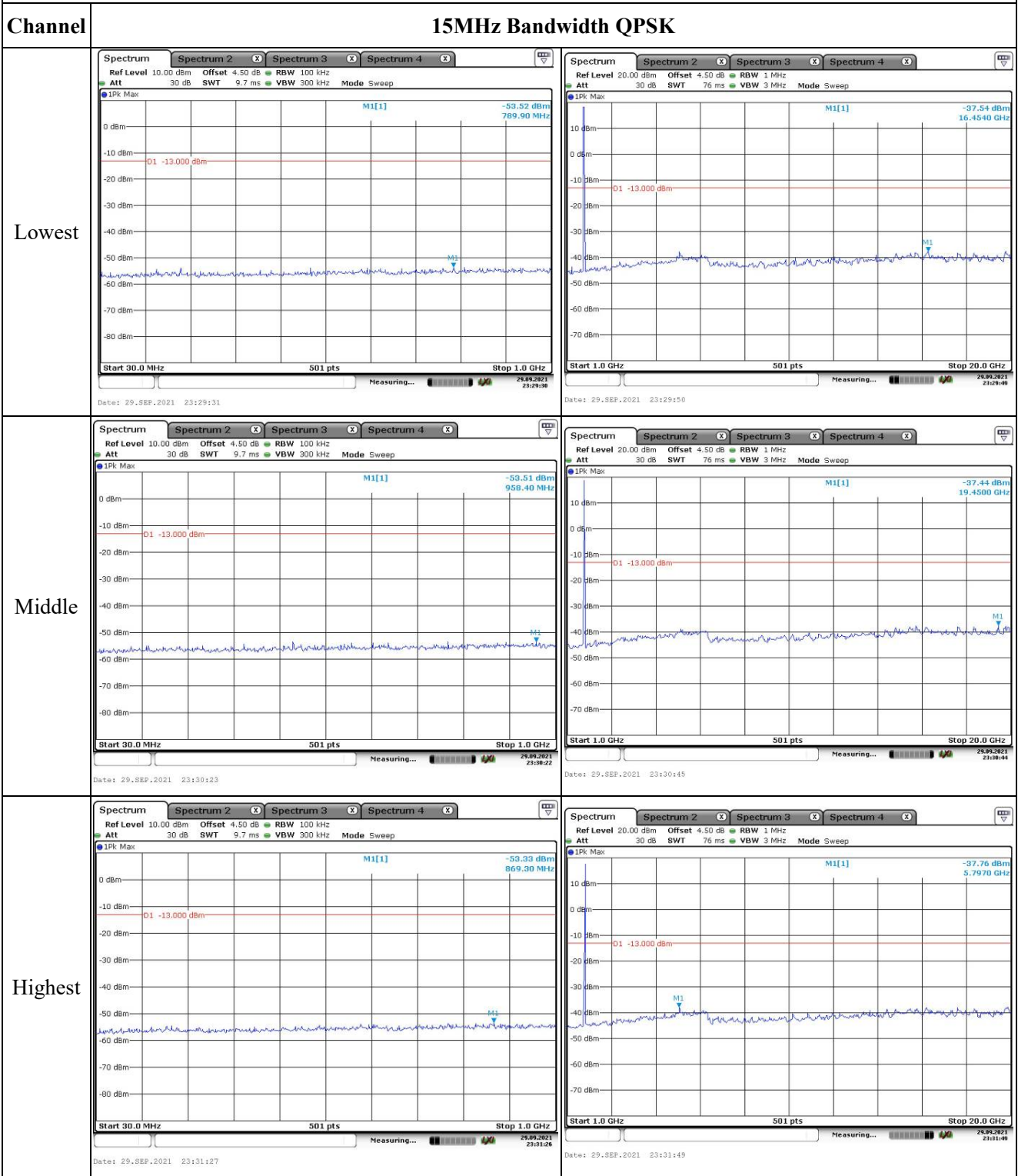
### Spurious Emissions at Antenna Terminal



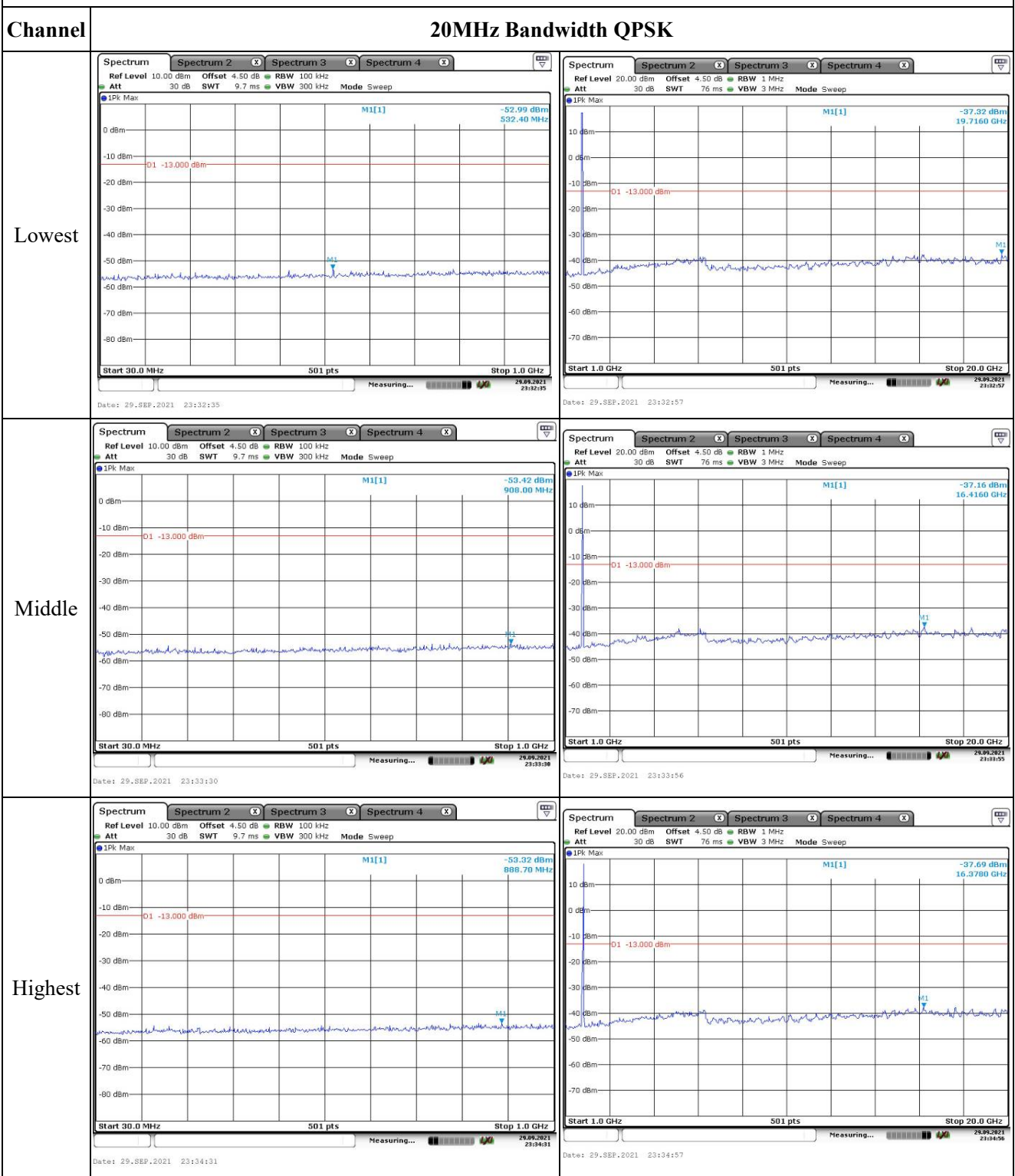
### Spurious Emissions at Antenna Terminal



### Spurious Emissions at Antenna Terminal



### Spurious Emissions at Antenna Terminal



Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 1.4MHz	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -17.14 dBm 1.70998200 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 20:39:00</p>	<p>Spectrum Ref Level 20.00 dBm Offset 4.50 dB RBW 30 kHz Att 30 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -21.43 dBm 1.78003471 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 3.0 MHz Date: 23.NOV.2021 20:34:36</p>
QPSK 3MHz	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -17.14 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 20:35:33</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep 1Fm Max M1[1] -15.91 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 6.0 MHz Date: 23.NOV.2021 20:36:20</p>
QPSK 5MHz	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Fm Max M1[1] -16.12 dBm 1.71000000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 20:37:18</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep 1Fm Max M1[1] -13.40 dBm 1.78000000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 10.0 MHz Date: 23.NOV.2021 20:38:14</p>

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>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -25.45 dBm 1.70997600 GHz</p> <p>CF 1.71 GHz 501 pts Span 3.0 MHz</p> <p>Date: 23.NOV.2021 20:30:25</p>	<p>Ref Level 20.00 dBm Offset 4.50 dB RBW 30 kHz Att 30 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -16.72 dBm 1.78027540 GHz</p> <p>CF 1.78 GHz 501 pts Span 20.0 MHz</p> <p>Date: 24.NOV.2021 09:27:29</p>
16QAM 3MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -18.07 dBm 1.71000000 GHz</p> <p>CF 1.71 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 20:35:59</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 30 kHz Att 40 dB SWT 1.1 ms VBW 100 kHz Mode Sweep</p> <p>M1[1] -17.16 dBm 1.78000000 GHz</p> <p>CF 1.78 GHz 501 pts Span 6.0 MHz</p> <p>Date: 23.NOV.2021 20:36:40</p>
16QAM 5MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -17.56 dBm 1.71000000 GHz</p> <p>CF 1.71 GHz 501 pts Span 10.0 MHz</p> <p>Date: 23.NOV.2021 20:37:50</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep</p> <p>M1[1] -14.07 dBm 1.78000000 GHz</p> <p>CF 1.78 GHz 501 pts Span 10.0 MHz</p> <p>Date: 23.NOV.2021 20:38:40</p>

Out of band emission, Band Edge

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

**4.12 Spurious Emissions**

Serial Number:	CR21090101-RF-S3/16	Test Date:	2021-09~09~2021-09-16
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Joyce Qiao, Joker Chen	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	27~27.1	Relative Humidity: (%)	57~62	ATM Pressure: (kPa)	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	2021-07-22	2022-07-21
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2021-07-18	2022-07-17
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2021-07-18	2022-07-17
Sonoma	Amplifier	310N	186165	2021-07-18	2022-07-17
EMCO	Adjustable Dipole Antenna	3121C	9109-753	2021-07-18	2022-07-17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-07-18	2022-07-17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2023-02-04
R&S	Spectrum Analyzer	FSV40	101591	2021-07-22	2022-07-21
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2021-08-08	2022-08-07
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2021-08-08	2022-08-07
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2021-11-10	2022-11-09
AH	Preamplifier	PAM-1840VH	190	2020-11-20	2021-11-19
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021-10-18	2023-10-17
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021-02-05	2023-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321352	2021-04-25	2022-04-24

\* 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:****Cellular Band (PART 22H)****30 MHz-10 GHz:**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ 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								
1648.40	H	56.23	-48.05	8.68	0.80	-40.17	-13.00	27.17
1648.40	V	58.36	-46.00	8.68	0.80	-38.12	-13.00	25.12
2472.60	H	54.17	-46.55	9.38	1.00	-38.17	-13.00	25.17
2472.60	V	48.36	-52.31	9.38	1.00	-43.93	-13.00	30.93
3296.80	H	37.49	-58.61	10.32	1.15	-49.44	-13.00	36.44
3296.80	V	38.65	-57.21	10.32	1.15	-48.04	-13.00	35.04
779.64	H	40.43	-64.21	0.00	0.93	-65.14	-13.00	52.14
623.63	V	50.79	-59.72	0.00	0.80	-60.52	-13.00	47.52
GSM 850 Frequency:836.6MHz								
1673.20	H	55.36	-48.92	8.71	0.85	-41.06	-13.00	28.06
1673.20	V	56.41	-47.98	8.71	0.85	-40.12	-13.00	27.12
2509.80	H	55.64	-44.94	9.42	1.01	-36.53	-13.00	23.53
2509.80	V	49.67	-50.92	9.42	1.01	-42.51	-13.00	29.51
3346.40	H	37.51	-58.91	10.34	1.16	-49.73	-13.00	36.73
3346.40	V	38.62	-57.67	10.34	1.16	-48.49	-13.00	35.49
623.63	H	40.52	-66.92	0.00	0.80	-67.72	-13.00	54.72
623.63	V	50.81	-59.70	0.00	0.80	-60.50	-13.00	47.50
GSM 850 Frequency:848.8MHz								
1697.60	H	54.21	-50.08	8.74	0.90	-42.24	-13.00	29.24
1697.60	V	55.32	-49.10	8.74	0.90	-41.26	-13.00	28.26
2546.40	H	54.66	-45.61	9.47	1.01	-37.15	-13.00	24.15
2546.40	V	48.67	-51.56	9.47	1.01	-43.10	-13.00	30.10
3395.20	H	36.51	-60.27	10.36	1.19	-51.10	-13.00	38.10
3395.20	V	37.42	-59.33	10.36	1.19	-50.16	-13.00	37.16
675.96	H	41.07	-66.10	0.00	0.90	-67.00	-13.00	54.00
623.63	V	50.33	-60.18	0.00	0.80	-60.98	-13.00	47.98

Frequency (MHz)	Polar (H/V)	Receiver Reading (dB $\mu$ 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								
1652.80	H	55.10	-49.18	8.68	0.81	-41.31	-13.00	28.31
1652.80	V	57.83	-46.53	8.68	0.81	-38.66	-13.00	25.66
2479.20	H	53.59	-47.12	9.39	1.01	-38.74	-13.00	25.74
2479.20	V	46.41	-54.27	9.39	1.01	-45.89	-13.00	32.89
3305.60	H	36.04	-60.08	10.32	1.15	-50.91	-13.00	37.91
3305.60	V	36.99	-58.90	10.32	1.15	-49.73	-13.00	36.73
93.90	H	38.75	-76.14	0.00	0.32	-76.46	-13.00	63.46
65.80	V	48.87	-67.97	-7.23	0.24	-75.44	-13.00	62.44
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	56.43	-47.85	8.71	0.85	-39.99	-13.00	26.99
1673.20	V	55.33	-49.06	8.71	0.85	-41.20	-13.00	28.20
2509.80	H	48.32	-52.26	9.42	1.01	-43.85	-13.00	30.85
2509.80	V	47.81	-52.78	9.42	1.01	-44.37	-13.00	31.37
3346.40	H	35.26	-61.16	10.34	1.16	-51.98	-13.00	38.98
3346.40	V	35.43	-60.86	10.34	1.16	-51.68	-13.00	38.68
85.70	H	38.77	-79.95	0.00	0.37	-80.32	-13.00	67.32
53.60	V	47.62	-61.71	-13.24	0.22	-75.17	-13.00	62.17
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	55.89	-48.40	8.73	0.89	-40.56	-13.00	27.56
1693.20	V	54.74	-49.67	8.73	0.89	-41.83	-13.00	28.83
2539.80	H	49.97	-50.36	9.46	1.01	-41.91	-13.00	28.91
2539.80	V	52.15	-48.14	9.46	1.01	-39.69	-13.00	26.69
3386.40	H	35.24	-61.48	10.35	1.18	-52.31	-13.00	39.31
3386.40	V	35.07	-61.60	10.35	1.18	-52.43	-13.00	39.43
103.70	H	38.51	-73.26	0.00	0.27	-73.53	-13.00	60.53
74.30	V	46.83	-74.55	-2.85	0.30	-77.70	-13.00	64.70

**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								
3700.40	H	40.32	-56.17	10.60	1.25	-46.82	-13.00	33.82
3700.40	V	42.28	-54.19	10.60	1.25	-44.84	-13.00	31.84
5550.60	H	38.25	-54.79	11.44	1.49	-44.84	-13.00	31.84
5550.60	V	39.37	-53.50	11.44	1.49	-43.55	-13.00	30.55
675.96	H	41.19	-65.98	0.00	0.90	-66.88	-13.00	53.88
623.63	V	49.87	-60.64	0.00	0.80	-61.44	-13.00	48.44
GSM 1900 Frequency:1880MHz								
3760.00	H	41.38	-54.28	10.66	1.24	-44.86	-13.00	31.86
3760.00	V	43.52	-52.02	10.66	1.24	-42.60	-13.00	29.60
5640.00	H	39.45	-53.82	11.33	1.54	-44.03	-13.00	31.03
5640.00	V	40.78	-52.37	11.33	1.54	-42.58	-13.00	29.58
675.96	H	41.80	-65.37	0.00	0.90	-66.27	-13.00	53.27
623.63	V	50.10	-60.41	0.00	0.80	-61.21	-13.00	48.21
GSM 1900 Frequency:1909.8MHz								
3819.60	H	40.70	-54.50	10.72	1.29	-45.07	-13.00	32.07
3819.60	V	41.28	-53.77	10.72	1.29	-44.34	-13.00	31.34
5729.40	H	40.58	-52.92	11.22	1.59	-43.29	-13.00	30.29
5729.40	V	42.35	-51.02	11.22	1.59	-41.39	-13.00	28.39
675.96	H	42.07	-65.10	0.00	0.90	-66.00	-13.00	53.00
623.63	V	50.00	-60.51	0.00	0.80	-61.31	-13.00	48.31

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								
3704.80	H	39.79	-56.64	10.60	1.25	-47.29	-13.00	34.29
3704.80	V	44.19	-52.22	10.60	1.25	-42.87	-13.00	29.87
5557.20	H	39.02	-54.03	11.43	1.49	-44.09	-13.00	31.09
5557.20	V	40.57	-52.32	11.43	1.49	-42.38	-13.00	29.38
7409.60	H	41.49	-48.18	10.95	2.05	-39.28	-13.00	26.28
7409.60	V	40.90	-49.51	10.95	2.05	-40.61	-13.00	27.61
9262.00	H	39.69	-48.63	11.30	2.36	-39.69	-13.00	26.69
9262.00	V	41.58	-47.26	11.30	2.36	-38.32	-13.00	25.32
499.60	H	37.81	-71.90	0.00	0.71	-72.61	-13.00	59.61
51.80	V	45.14	-63.12	-14.07	0.21	-77.40	-13.00	64.40
WCDMA Band II, Frequency: 1880 MHz								
3760.00	H	36.12	-59.54	10.66	1.24	-50.12	-13.00	37.12
3760.00	V	41.34	-54.20	10.66	1.24	-44.78	-13.00	31.78
5640.00	H	37.61	-55.66	11.33	1.54	-45.87	-13.00	32.87
5640.00	V	40.71	-52.44	11.33	1.54	-42.65	-13.00	29.65
7520.00	H	39.70	-50.64	10.90	1.96	-41.70	-13.00	28.70
93.90	H	37.30	-77.59	0.00	0.32	-77.91	-13.00	64.91
65.80	V	45.58	-71.26	-7.23	0.24	-78.73	-13.00	65.73
WCDMA Band II, Frequency: 1907.6MHz								
3815.20	H	40.09	-55.08	10.72	1.29	-45.65	-13.00	32.65
3815.20	V	41.49	-53.53	10.72	1.29	-44.10	-13.00	31.10
5722.80	H	42.64	-50.85	11.23	1.58	-41.20	-13.00	28.20
5722.80	V	41.79	-51.57	11.23	1.58	-41.92	-13.00	28.92
7630.40	H	39.72	-50.34	10.87	2.04	-41.51	-13.00	28.51
93.90	H	39.69	-75.20	0.00	0.32	-75.52	-13.00	62.52
65.80	V	46.41	-70.43	-7.23	0.24	-77.90	-13.00	64.90

## AWS Band, Part 27

## 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, Frequency: 1850.7 MHz								
3701.40	H	41.95	-54.53	10.60	1.25	-45.18	-13.00	32.18
3701.40	V	46.85	-49.61	10.60	1.25	-40.26	-13.00	27.26
5552.10	H	38.93	-54.11	11.44	1.49	-44.16	-13.00	31.16
5552.10	V	41.22	-51.66	11.44	1.49	-41.71	-13.00	28.71
7402.80	H	40.38	-49.23	10.96	2.06	-40.33	-13.00	27.33
7402.80	V	36.23	-54.14	10.96	2.06	-45.24	-13.00	32.24
9253.50	H	42.84	-45.48	11.30	2.36	-36.54	-13.00	23.54
9253.50	V	44.82	-44.02	11.30	2.36	-35.08	-13.00	22.08
74.09	H	38.03	-81.91	-2.96	0.30	-85.17	-13.00	72.17
66.34	V	46.72	-70.47	-6.94	0.24	-77.65	-13.00	64.65
QPSK, Frequency: 1880 MHz								
3760.00	H	37.00	-58.66	10.66	1.24	-49.24	-13.00	36.24
3760.00	V	41.58	-53.96	10.66	1.24	-44.54	-13.00	31.54
5640.00	H	36.69	-56.58	11.33	1.54	-46.79	-13.00	33.79
5640.00	V	39.08	-54.07	11.33	1.54	-44.28	-13.00	31.28
433.60	H	43.81	-66.66	0.00	0.64	-67.30	-13.00	54.30
66.34	V	46.19	-71.00	-6.94	0.24	-78.18	-13.00	65.18
QPSK, Frequency: 1909.3 MHz								
3818.60	H	41.98	-53.21	10.72	1.29	-43.78	-13.00	30.78
3818.60	V	46.90	-48.14	10.72	1.29	-38.71	-13.00	25.71
5727.90	H	42.34	-51.16	11.23	1.59	-41.52	-13.00	28.52
5727.90	V	45.55	-47.82	11.23	1.59	-38.18	-13.00	25.18
7637.20	H	41.27	-48.79	10.87	2.05	-39.97	-12.00	27.97
7637.20	V	40.50	-50.26	10.87	2.05	-41.44	-11.00	30.44
93.47	H	38.41	-76.66	0.00	0.33	-76.99	-13.00	63.99
50.83	V	46.83	-60.85	-14.52	0.21	-75.58	-13.00	62.58



**LTE Band 4 (30MHz-20GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 1710.7 MHz								
3421.40	H	39.66	-57.16	10.37	1.17	-47.96	-13.00	34.96
3421.40	V	40.84	-55.95	10.37	1.17	-46.75	-13.00	33.75
5132.10	H	38.29	-55.28	11.28	1.47	-45.47	-13.00	32.47
5132.10	V	40.71	-52.75	11.28	1.47	-42.94	-13.00	29.94
6842.80	H	46.05	-45.64	11.23	1.87	-36.28	-13.00	23.28
6842.80	V	42.18	-49.35	11.23	1.87	-39.99	-13.00	26.99
8553.50	H	49.43	-39.12	10.94	2.33	-30.51	-13.00	17.51
8553.50	V	45.37	-43.50	10.94	2.33	-34.89	-13.00	21.89
94.44	H	38.00	-76.66	0.00	0.32	-76.98	-13.00	63.98
50.83	V	46.86	-60.82	-14.52	0.21	-75.55	-13.00	62.55
QPSK, Frequency: 1732.5 MHz								
3465.00	H	40.07	-56.76	10.39	1.15	-47.52	-13.00	34.52
3465.00	V	42.01	-54.77	10.39	1.15	-45.53	-13.00	32.53
5197.50	H	36.71	-57.22	11.32	1.44	-47.34	-13.00	34.34
5197.50	V	40.90	-52.88	11.32	1.44	-43.00	-13.00	30.00
6930.00	H	43.02	-48.24	11.21	1.89	-38.92	-13.00	25.92
6930.00	V	39.96	-51.16	11.21	1.89	-41.84	-13.00	28.84
8662.50	H	45.67	-42.67	11.03	2.29	-33.93	-13.00	20.93
8662.50	V	43.09	-45.71	11.03	2.29	-36.97	-13.00	23.97
95.40	H	37.51	-76.74	0.00	0.31	-77.05	-13.00	64.05
66.34	V	47.82	-69.37	-6.94	0.24	-76.55	-13.00	63.55
QPSK, Frequency: 1754.3 MHz								
3508.60	H	35.36	-61.44	10.41	1.19	-52.22	-13.00	39.22
3508.60	V	41.58	-55.15	10.41	1.19	-45.93	-13.00	32.93
5262.90	H	37.46	-56.27	11.36	1.47	-46.38	-13.00	33.38
5262.90	V	42.32	-51.18	11.36	1.47	-41.29	-13.00	28.29
7017.20	H	41.77	-49.11	11.19	1.90	-39.82	-13.00	26.82
7017.20	V	36.81	-53.94	11.19	1.90	-44.65	-13.00	31.65
8771.50	H	46.20	-41.63	11.12	2.29	-32.80	-13.00	19.80
8771.50	V	41.22	-47.50	11.12	2.29	-38.67	-13.00	25.67
71.18	H	38.23	-80.88	-4.41	0.26	-85.55	-13.00	72.55
66.34	V	48.44	-68.75	-6.94	0.24	-75.93	-13.00	62.93

**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								
1649.40	H	53.13	-51.15	8.68	0.80	-43.27	-13.00	30.27
1649.40	V	51.27	-53.09	8.68	0.80	-45.21	-13.00	32.21
2474.10	H	39.38	-61.34	9.38	1.00	-52.96	-13.00	39.96
2474.10	V	40.06	-60.61	9.38	1.00	-52.23	-13.00	39.23
3298.80	H	39.25	-56.84	10.32	1.15	-47.67	-13.00	34.67
3298.80	V	41.91	-53.94	10.32	1.15	-44.77	-13.00	31.77
94.44	H	38.52	-76.14	0.00	0.32	-76.46	-13.00	63.46
50.83	V	46.98	-60.70	-14.52	0.21	-75.43	-13.00	62.43
QPSK, Frequency: 836.5 MHz								
1673.00	H	56.27	-48.01	8.71	0.85	-40.15	-13.00	27.15
1673.00	V	58.25	-46.14	8.71	0.85	-38.28	-13.00	25.28
2509.50	H	43.10	-57.48	9.42	1.01	-49.07	-13.00	36.07
2509.50	V	45.21	-55.39	9.42	1.01	-46.98	-13.00	33.98
3346.00	H	36.58	-59.84	10.34	1.16	-50.66	-13.00	37.66
3346.00	V	37.76	-58.52	10.34	1.16	-49.34	-13.00	36.34
92.50	H	37.13	-78.35	0.00	0.34	-78.69	-13.00	65.69
52.77	V	46.59	-62.25	-13.63	0.22	-76.10	-13.00	63.10
QPSK, Frequency: 848.3 MHz								
1696.60	H	57.05	-47.24	8.74	0.89	-39.39	-13.00	26.39
1696.60	V	58.55	-45.87	8.74	0.89	-38.02	-13.00	25.02
2544.90	H	35.82	-64.47	9.47	1.01	-56.01	-13.00	43.01
2544.90	V	35.65	-64.59	9.47	1.01	-56.13	-13.00	43.13
3393.20	H	37.43	-59.34	10.36	1.19	-50.17	-13.00	37.17
3393.20	V	3.44	-93.29	10.36	1.19	-84.12	-13.00	71.12
95.51	H	38.62	-75.58	0.00	0.30	-75.88	-13.00	62.88
55.63	V	46.74	-63.79	-12.31	0.22	-76.32	-13.00	63.32

**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								
1399.40	H	37.46	-66.05	8.22	0.71	-58.54	-13.00	45.54
1399.40	V	44.42	-59.14	8.22	0.71	-51.63	-13.00	38.63
2099.10	H	36.49	-65.33	9.16	0.91	-57.08	-13.00	44.08
2099.10	V	38.02	-63.75	9.16	0.91	-55.50	-13.00	42.50
2798.80	H	35.41	-64.45	9.88	1.04	-55.61	-13.00	42.61
2798.80	V	35.36	-64.37	9.88	1.04	-55.53	-13.00	42.53
91.50	H	36.51	-79.39	0.00	0.35	-79.74	-13.00	66.74
50.55	V	47.83	-59.69	-14.65	0.21	-74.55	-13.00	61.55
QPSK, Frequency:707.5 MHz								
1415.00	H	37.84	-65.69	8.26	0.72	-58.15	-13.00	45.15
1415.00	V	42.91	-60.67	8.26	0.72	-53.13	-13.00	40.13
2122.50	H	40.37	-61.55	9.17	0.92	-53.30	-13.00	40.30
2122.50	V	43.31	-58.59	9.17	0.92	-50.34	-13.00	37.34
2830.00	H	36.12	-63.59	9.93	1.06	-54.72	-13.00	41.72
2830.00	V	35.44	-64.21	9.93	1.06	-55.34	-13.00	42.34
91.53	H	37.51	-78.38	0.00	0.34	-78.72	-13.00	65.72
50.83	V	45.95	-61.73	-14.52	0.21	-76.46	-13.00	63.46
QPSK, Frequency: 715.3 MHz								
1430.60	H	36.79	-66.75	8.31	0.73	-59.17	-13.00	46.17
1430.60	V	44.35	-59.25	8.31	0.73	-51.67	-13.00	38.67
2145.90	H	40.40	-61.62	9.19	0.93	-53.36	-13.00	40.36
2145.90	V	38.16	-63.88	9.19	0.93	-55.62	-13.00	42.62
2861.20	H	35.33	-64.23	9.98	1.07	-55.32	-13.00	42.32
2861.20	V	35.30	-64.27	9.98	1.07	-55.36	-13.00	42.36
88.63	H	37.94	-79.29	0.00	0.36	-79.65	-13.00	66.65
55.64	V	46.72	-63.82	-12.31	0.22	-76.35	-13.00	63.35

**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								
1413.00	H	39.34	-64.19	8.26	0.72	-56.65	-13.00	43.65
1413.00	V	43.09	-60.49	8.26	0.72	-52.95	-13.00	39.95
2119.50	H	44.20	-57.71	9.17	0.92	-49.46	-13.00	36.46
2119.50	V	42.01	-59.87	9.17	0.92	-51.62	-13.00	38.62
2826.00	H	35.42	-64.31	9.92	1.06	-55.45	-13.00	42.45
2826.00	V	35.40	-64.26	9.92	1.06	-55.40	-13.00	42.40
88.63	H	37.94	-79.29	0.00	0.36	-79.65	-13.00	66.65
55.64	V	46.72	-63.82	-12.31	0.22	-76.35	-13.00	63.35
QPSK, Frequency: 710 MHz								
1420.00	H	38.09	-65.44	8.28	0.73	-57.89	-13.00	44.89
1420.00	V	42.88	-60.70	8.28	0.73	-53.15	-13.00	40.15
2130.00	H	40.35	-61.60	9.18	0.92	-53.34	-13.00	40.34
2130.00	V	43.64	-58.30	9.18	0.92	-50.04	-13.00	37.04
2840.00	H	35.20	-64.46	9.94	1.06	-55.58	-13.00	42.58
2840.00	V	35.33	-64.30	9.94	1.06	-55.42	-13.00	42.42
443.29	H	35.97	-74.39	0.00	0.65	-75.04	-13.00	62.04
50.83	V	45.61	-62.07	-14.52	0.21	-76.80	-13.00	63.80
QPSK, Frequency: 713.5 MHz								
1427.00	H	38.57	-64.97	8.30	0.73	-57.40	-13.00	44.40
1427.00	V	42.79	-60.80	8.30	0.73	-53.23	-13.00	40.23
2140.50	H	40.03	-61.97	9.18	0.93	-53.72	-13.00	40.72
2140.50	V	41.53	-60.47	9.18	0.93	-52.22	-13.00	39.22
2854.00	H	35.31	-64.29	9.97	1.07	-55.39	-13.00	42.39
2854.00	V	35.22	-64.37	9.97	1.07	-55.47	-13.00	42.47
385.15	H	36.68	-74.86	0.00	0.60	-75.46	-13.00	62.46
91.53	V	44.55	-74.36	0.00	0.34	-74.70	-13.00	61.70

**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								
5115.00	H	36.40	-57.08	11.27	1.51	-47.32	-25.00	22.32
5115.00	V	40.51	-52.87	11.27	1.51	-43.11	-25.00	18.11
7672.50	H	37.96	-52.11	10.87	2.03	-43.27	-25.00	18.27
7672.50	V	35.48	-55.28	10.87	2.03	-46.44	-25.00	21.44
10230.00	H	35.33	-51.99	11.56	2.47	-42.90	-25.00	17.90
10230.00	V	35.19	-52.44	11.56	2.47	-43.35	-25.00	18.35
460.73	H	37.33	-72.83	0.00	0.67	-73.50	-25.00	48.50
91.53	V	45.62	-73.29	0.00	0.34	-73.63	-25.00	48.63
QPSK, Frequency:2605 MHz								
5210.00	H	36.47	-57.44	11.33	1.45	-47.56	-25.00	22.56
5210.00	V	39.42	-54.32	11.33	1.45	-44.44	-25.00	19.44
7815.00	H	38.23	-51.58	10.84	1.99	-42.73	-25.00	17.73
7815.00	V	38.03	-52.17	10.84	1.99	-43.32	-25.00	18.32
10420.00	H	35.12	-51.78	11.45	2.50	-42.83	-25.00	17.83
10420.00	V	35.01	-51.95	11.45	2.50	-43.00	-25.00	18.00
169.06	H	37.35	-77.33	0.00	0.42	-77.75	-25.00	52.75
50.83	V	45.98	-61.70	-14.52	0.21	-76.43	-25.00	51.43
QPSK, Frequency: 2652.5 MHz								
5305.00	H	36.21	-57.39	11.38	1.46	-47.47	-25.00	22.47
5305.00	V	38.51	-54.84	11.38	1.46	-44.92	-25.00	19.92
7957.50	H	42.96	-45.90	10.81	2.09	-37.18	-25.00	12.18
7957.50	V	40.10	-49.21	10.81	2.09	-40.49	-25.00	15.49
10610.00	H	35.43	-51.41	11.40	2.48	-42.49	-25.00	17.49
10610.00	V	35.10	-51.89	11.40	2.48	-42.97	-25.00	17.97
90.56	H	38.62	-77.68	0.00	0.35	-78.03	-25.00	53.03
50.83	V	45.74	-61.94	-14.52	0.21	-76.67	-25.00	51.67

**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								
3421.40	H	38.62	-58.20	10.37	1.17	-49.00	-13.00	36.00
3421.40	V	41.27	-55.52	10.37	1.17	-46.32	-13.00	33.32
5132.10	H	43.53	-50.04	11.28	1.47	-40.23	-13.00	27.23
5132.10	V	46.85	-46.61	11.28	1.47	-36.80	-13.00	23.80
6842.80	H	41.89	-49.80	11.23	1.87	-40.44	-13.00	27.44
6842.80	V	43.44	-48.09	11.23	1.87	-38.73	-13.00	25.73
8553.50	H	46.53	-42.02	10.94	2.33	-33.41	-13.00	20.41
8553.50	V	47.33	-41.54	10.94	2.33	-32.93	-13.00	19.93
169.06	H	37.67	-77.01	0.00	0.42	-77.43	-13.00	64.43
45.71	V	46.58	-53.49	-19.10	0.21	-72.80	-13.00	59.80
QPSK, Frequency:1745 MHz								
3490.00	H	38.31	-58.52	10.40	1.17	-49.29	-13.00	36.29
3490.00	V	39.37	-57.40	10.40	1.17	-48.17	-13.00	35.17
5235.00	H	39.29	-54.53	11.34	1.46	-44.65	-13.00	31.65
5235.00	V	45.26	-48.37	11.34	1.46	-38.49	-13.00	25.49
6980.00	H	42.76	-48.40	11.20	1.90	-39.10	-13.00	26.10
6980.00	V	38.64	-52.37	11.20	1.90	-43.07	-13.00	30.07
8725.00	H	47.54	-40.58	11.08	2.27	-31.77	-13.00	18.77
8725.00	V	43.30	-45.44	11.08	2.27	-36.63	-13.00	23.63
33.48	H	38.28	-50.99	-24.70	0.25	-75.94	-13.00	62.94
55.68	V	43.94	-66.62	-12.29	0.22	-79.13	-13.00	66.13
QPSK, Frequency: 1779.3 MHz								
3558.60	H	38.82	-57.80	10.46	1.22	-48.56	-13.00	35.56
3558.60	V	43.06	-53.46	10.46	1.22	-44.22	-13.00	31.22
5337.90	H	37.33	-56.28	11.40	1.47	-46.35	-13.00	33.35
5337.90	V	36.51	-56.96	11.40	1.47	-47.03	-13.00	34.03
7117.20	H	42.82	-46.94	11.13	1.93	-37.74	-13.00	24.74
7117.20	V	42.29	-47.44	11.13	1.93	-38.24	-13.00	25.24
8896.50	H	52.45	-34.96	11.22	2.30	-26.04	-13.00	13.04
8896.50	V	46.74	-41.91	11.22	2.30	-32.99	-13.00	19.99
90.56	H	36.96	-79.34	0.00	0.35	-79.69	-13.00	66.69
50.83	V	46.37	-61.31	-14.52	0.21	-76.04	-13.00	63.04

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 \*\*\*\*\*