

Out of band emission, Band Edge

Mode	Lowest	Highest
QPSK 10MHz	<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] -24.70 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 24.NOV.2021 19:06:36</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] -22.94 dBm 1.7804790 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 20.0 MHz Date: 24.NOV.2021 19:07:35</p>
QPSK 15MHz	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Fm Max M1[1] -16.19 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 19:08:48</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Fm Max M1[1] -14.67 dBm 1.780000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 19:09:42</p>
QPSK 20MHz	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Fm Max M1[1] -23.29 dBm 1.710000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 19:10:43</p>	<p>Spectrum Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep 1Fm Max M1[1] -19.96 dBm 1.780000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 19:11:43</p>

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 1.4MHz		
16QAM 3MHz		
16QAM 5MHz		

Out of band emission, Band Edge

Mode	Lowest	Highest
16QAM 10MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 100 kHz Att 40 dB SWT 1 ms VBW 300 kHz Mode Sweep M1[1] -24.21 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 20.0 MHz Date: 24.NOV.2021 19:07:06</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 M1[1] -21.83 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 20.0 MHz Date: 24.NOV.2021 19:08:17</p>
16QAM 15MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -18.58 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 19:09:18</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -15.98 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 30.0 MHz Date: 24.NOV.2021 19:10:12</p>
16QAM 20MHz	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -22.92 dBm 1.7100000 GHz D1 -13.000 dBm CF 1.71 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 19:11:10</p>	<p>Ref Level 30.00 dBm Offset 4.50 dB RBW 300 kHz Att 40 dB SWT 1 ms VBW 1 MHz Mode Sweep M1[1] -19.47 dBm 1.7800000 GHz D1 -13.000 dBm CF 1.78 GHz 501 pts Span 40.0 MHz Date: 24.NOV.2021 19:12:13</p>

**4.14 Spurious Emissions**

Serial Number:	CR21110014-RF-S1	Test Date:	2021-11-16~2021-11-22
Test Site:	966-2, 966-1	Test Mode:	Transmitting
Tester:	Tommy Luo, Great Qiao	Test Result:	Pass

**Environmental Conditions:**

Temperature: (°C)	22.9~23.1	Relative Humidity: (%)	53~70	ATM Pressure: (kPa)	101.2~101.4
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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	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Agilent	Signal Generator	E8247C	MY43321350	2021-04-25	2022-04-24
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020-10-13	2023-10-12
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021-02-05	2024-02-04
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	2024-02-04
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2021-07-25	2022-07-24
Mini Circuits	High Pass Filter	VHF-6010+	31119	2021-08-08	2022-08-07
Mini Circuits	High Pass Filter	VHF-3100+	31251	2021-08-08	2022-08-07

\* 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 (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								
1648.40	H	49.83	-54.50	8.68	0.80	-46.62	-13.00	33.62
1648.40	V	56.39	-48.02	8.68	0.80	-40.14	-13.00	27.14
2472.60	H	49.64	-51.14	9.38	1.00	-42.76	-13.00	29.76
2472.60	V	52.06	-48.67	9.38	1.00	-40.29	-13.00	27.29
3296.80	H	41.62	-55.06	10.32	1.15	-45.89	-13.00	32.89
3296.80	V	43.54	-52.90	10.32	1.15	-43.73	-13.00	30.73
223.70	H	46.70	-65.72	0.00	0.28	-66.00	-13.00	53.00
220.60	V	49.50	-60.49	0.00	0.27	-60.76	-13.00	47.76
GSM 850 Frequency:836.6MHz								
1673.20	H	48.53	-55.78	8.71	0.85	-47.92	-13.00	34.92
1673.20	V	54.29	-50.12	8.71	0.85	-42.26	-13.00	29.26
2509.80	H	48.51	-52.10	9.42	1.01	-43.69	-13.00	30.69
2509.80	V	52.32	-48.30	9.42	1.01	-39.89	-13.00	26.89
3346.40	H	39.29	-57.88	10.34	1.16	-48.70	-13.00	35.70
3346.40	V	40.94	-56.09	10.34	1.16	-46.91	-13.00	33.91
226.10	H	42.21	-70.16	0.00	0.28	-70.44	-13.00	57.44
219.80	V	47.30	-62.66	0.00	0.27	-62.93	-13.00	49.93
GSM 850 Frequency:848.8MHz								
1697.60	H	46.45	-57.84	8.74	0.90	-50.00	-13.00	37.00
1697.60	V	54.32	-50.10	8.74	0.90	-42.26	-13.00	29.26
2546.40	H	46.57	-53.76	9.47	1.01	-45.30	-13.00	32.30
2546.40	V	52.52	-47.76	9.47	1.01	-39.30	-13.00	26.30
3395.20	H	40.21	-57.48	10.36	1.19	-48.31	-13.00	35.31
3395.20	V	41.16	-56.50	10.36	1.19	-47.33	-13.00	34.33
310.00	H	45.40	-65.17	0.00	0.34	-65.51	-13.00	52.51
217.30	V	46.10	-63.78	0.00	0.27	-64.05	-13.00	51.05

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								
1652.80	H	37.35	-66.98	8.68	0.81	-59.11	-13.00	46.11
1652.80	V	36.49	-67.92	8.68	0.81	-60.05	-13.00	47.05
2479.20	H	36.04	-64.72	9.39	1.01	-56.34	-13.00	43.34
2479.20	V	35.71	-65.02	9.39	1.01	-56.64	-13.00	43.64
3305.60	H	36.33	-60.40	10.32	1.15	-51.23	-13.00	38.23
3305.60	V	35.26	-61.24	10.32	1.15	-52.07	-13.00	39.07
600.60	H	35.39	-69.42	0.00	0.51	-69.93	-13.00	56.93
399.90	V	41.36	-64.85	0.00	0.40	-65.25	-13.00	52.25
WCDMA Band 5 Frequency:836.6MHz								
1673.20	H	35.71	-68.60	8.71	0.85	-60.74	-13.00	47.74
1673.20	V	36.97	-67.44	8.71	0.85	-59.58	-13.00	46.58
2509.80	H	34.76	-65.85	9.42	1.01	-57.44	-13.00	44.44
2509.80	V	35.08	-65.54	9.42	1.01	-57.13	-13.00	44.13
3346.40	H	34.53	-62.64	10.34	1.16	-53.46	-13.00	40.46
3346.40	V	35.51	-61.52	10.34	1.16	-52.34	-13.00	39.34
559.90	H	35.29	-70.34	0.00	0.47	-70.81	-13.00	57.81
374.60	V	39.84	-67.03	0.00	0.37	-67.40	-13.00	54.40
WCDMA Band 5 Frequency:846.6MHz								
1693.20	H	36.23	-68.07	8.73	0.89	-60.23	-13.00	47.23
1693.20	V	37.35	-67.07	8.73	0.89	-59.23	-13.00	46.23
2539.80	H	35.79	-64.59	9.46	1.01	-56.14	-13.00	43.14
2539.80	V	35.92	-64.42	9.46	1.01	-55.97	-13.00	42.97
3386.40	H	36.08	-61.51	10.35	1.18	-52.34	-13.00	39.34
3386.40	V	34.88	-62.66	10.35	1.18	-53.49	-13.00	40.49
116.30	H	43.83	-68.31	0.00	0.20	-68.51	-13.00	55.51
365.70	V	38.93	-68.17	0.00	0.37	-68.54	-13.00	55.54

**PCS Band (PART 24E)****30 MHz-20 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 1900 Frequency:1850.2MHz								
3700.40	H	48.08	-49.24	10.60	1.25	-39.89	-13.00	26.89
3700.40	V	50.99	-46.31	10.60	1.25	-36.96	-13.00	23.96
5550.60	H	44.72	-48.54	11.44	1.49	-38.59	-13.00	25.59
5550.60	V	41.02	-52.08	11.44	1.49	-42.13	-13.00	29.13
300.30	H	47.60	-63.12	0.00	0.34	-63.46	-13.00	50.46
225.30	V	50.92	-59.23	0.00	0.28	-59.51	-13.00	46.51
GSM 1900 Frequency:1880MHz								
3760.00	H	49.00	-47.41	10.66	1.24	-37.99	-13.00	24.99
3760.00	V	50.98	-45.31	10.66	1.24	-35.89	-13.00	22.89
5640.00	H	43.22	-50.23	11.33	1.54	-40.44	-13.00	27.44
5640.00	V	40.75	-52.58	11.33	1.54	-42.79	-13.00	29.79
219.00	H	47.20	-65.31	0.00	0.27	-65.58	-13.00	52.58
225.30	V	51.60	-58.55	0.00	0.28	-58.83	-13.00	45.83
GSM 1900 Frequency:1909.8MHz								
3819.60	H	48.90	-46.96	10.72	1.29	-37.53	-13.00	24.53
3819.60	V	51.55	-44.17	10.72	1.29	-34.74	-13.00	21.74
5729.40	H	41.76	-51.72	11.22	1.59	-42.09	-13.00	29.09
5729.40	V	41.86	-51.50	11.22	1.59	-41.87	-13.00	28.87
219.00	H	46.50	-66.01	0.00	0.27	-66.28	-13.00	53.28
297.50	V	49.80	-59.12	0.00	0.34	-59.46	-13.00	46.46

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	36.80	-60.46	10.60	1.25	-51.11	-13.00	38.11
3704.80	V	40.91	-56.32	10.60	1.25	-46.97	-13.00	33.97
5557.20	H	34.62	-58.66	11.43	1.49	-48.72	-13.00	35.72
5557.20	V	34.87	-58.26	11.43	1.49	-48.32	-13.00	35.32
559.90	H	34.78	-70.85	0.00	0.47	-71.32	-13.00	58.32
92.50	V	38.44	-70.32	0.00	0.18	-70.50	-13.00	57.50
WCDMA Band II, Frequency:1880 MHz								
3760.00	H	38.59	-57.82	10.66	1.24	-48.40	-13.00	35.40
3760.00	V	40.33	-55.96	10.66	1.24	-46.54	-13.00	33.54
5640.00	H	35.63	-57.82	11.33	1.54	-48.03	-13.00	35.03
5640.00	V	35.29	-58.04	11.33	1.54	-48.25	-13.00	35.25
313.70	H	34.74	-75.77	0.00	0.34	-76.11	-13.00	63.11
92.50	V	37.96	-70.80	0.00	0.18	-70.98	-13.00	57.98
WCDMA Band II, Frequency:1907.6MHz								
3815.20	H	42.60	-53.25	10.72	1.29	-43.82	-13.00	30.82
3815.20	V	44.43	-51.26	10.72	1.29	-41.83	-13.00	28.83
5722.80	H	34.21	-59.28	11.23	1.58	-49.63	-13.00	36.63
5722.80	V	34.99	-58.36	11.23	1.58	-48.71	-13.00	35.71
600.60	H	34.78	-70.03	0.00	0.51	-70.54	-13.00	57.54
92.50	V	38.44	-70.32	0.00	0.18	-70.50	-13.00	57.50



**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	35.54	-61.77	10.60	1.25	-52.42	-13.00	39.42
3701.40	V	35.16	-62.13	10.60	1.25	-52.78	-13.00	39.78
5552.10	H	34.92	-58.35	11.44	1.49	-48.40	-13.00	35.40
5552.10	V	34.40	-58.70	11.44	1.49	-48.75	-13.00	35.75
374.60	H	36.34	-73.25	0.00	0.37	-73.62	-13.00	60.62
374.60	V	38.92	-67.95	0.00	0.37	-68.32	-13.00	55.32
QPSK, Frequency: 1880 MHz								
3760.00	H	36.12	-60.29	10.66	1.24	-50.87	-13.00	37.87
3760.00	V	35.80	-60.49	10.66	1.24	-51.07	-13.00	38.07
5640.00	H	34.40	-59.05	11.33	1.54	-49.26	-13.00	36.26
5640.00	V	35.03	-58.30	11.33	1.54	-48.51	-13.00	35.51
317.10	H	36.01	-74.45	0.00	0.34	-74.79	-13.00	61.79
374.60	V	40.56	-66.31	0.00	0.37	-66.68	-13.00	53.68
QPSK, Frequency: 1909.3 MHz								
3818.60	H	35.86	-60.00	10.72	1.29	-50.57	-13.00	37.57
3818.60	V	34.86	-60.85	10.72	1.29	-51.42	-13.00	38.42
5727.90	H	35.05	-58.43	11.23	1.59	-48.79	-13.00	35.79
5727.90	V	34.42	-58.94	11.23	1.59	-49.30	-13.00	36.30
559.90	H	35.95	-69.68	0.00	0.47	-70.15	-13.00	57.15
374.60	V	39.42	-67.45	0.00	0.37	-67.82	-13.00	54.82

**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	36.01	-61.75	10.37	1.17	-52.55	-13.00	39.55
3421.40	V	36.45	-61.28	10.37	1.17	-52.08	-13.00	39.08
5132.10	H	35.50	-58.07	11.28	1.47	-48.26	-13.00	35.26
5132.10	V	34.41	-59.05	11.28	1.47	-49.24	-13.00	36.24
40.50	H	35.50	-49.70	-25.74	0.12	-75.56	-13.00	62.56
374.60	V	39.36	-67.51	0.00	0.37	-67.88	-13.00	54.88
QPSK, Frequency: 1732.5 MHz								
3465.00	H	35.68	-62.13	10.39	1.15	-52.89	-13.00	39.89
3465.00	V	35.62	-62.15	10.39	1.15	-52.91	-13.00	39.91
5197.50	H	34.43	-59.70	11.32	1.44	-49.82	-13.00	36.82
5197.50	V	34.82	-59.16	11.32	1.44	-49.28	-13.00	36.28
559.90	H	37.09	-68.54	0.00	0.47	-69.01	-13.00	56.01
49.00	V	39.99	-60.25	-15.88	0.12	-76.25	-13.00	63.25
QPSK, Frequency: 1754.3 MHz								
3505.20	H	35.77	-62.06	10.41	1.18	-52.83	-13.00	39.83
3505.20	V	35.89	-61.88	10.41	1.18	-52.65	-13.00	39.65
5257.80	H	35.06	-58.67	11.35	1.47	-48.79	-13.00	35.79
5257.80	V	34.90	-58.61	11.35	1.47	-48.73	-13.00	35.73
559.90	H	35.30	-70.33	0.00	0.47	-70.80	-13.00	57.80
374.60	V	40.23	-66.64	0.00	0.37	-67.01	-13.00	54.01

**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	44.09	-60.24	8.68	0.80	-52.36	-13.00	39.36
1649.40	V	47.27	-57.14	8.68	0.80	-49.26	-13.00	36.26
2474.10	H	43.01	-57.77	9.38	1.00	-49.39	-13.00	36.39
2474.10	V	43.93	-56.80	9.38	1.00	-48.42	-13.00	35.42
3298.80	H	36.39	-60.29	10.32	1.15	-51.12	-13.00	38.12
3298.80	V	36.43	-60.01	10.32	1.15	-50.84	-13.00	37.84
559.90	H	35.45	-70.18	0.00	0.47	-70.65	-13.00	57.65
374.60	V	40.04	-66.83	0.00	0.37	-67.20	-13.00	54.20
QPSK, Frequency: 836.5 MHz								
1673.00	H	42.49	-61.82	8.71	0.85	-53.96	-13.00	40.96
1673.00	V	46.07	-58.34	8.71	0.85	-50.48	-13.00	37.48
2509.50	H	42.39	-58.22	9.42	1.01	-49.81	-13.00	36.81
2509.50	V	46.59	-54.03	9.42	1.01	-45.62	-13.00	32.62
3346.00	H	35.96	-61.20	10.34	1.16	-52.02	-13.00	39.02
3346.00	V	35.54	-61.48	10.34	1.16	-52.30	-13.00	39.30
374.60	H	34.97	-74.62	0.00	0.37	-74.99	-13.00	61.99
374.60	V	38.93	-67.94	0.00	0.37	-68.31	-13.00	55.31
QPSK, Frequency: 848.3 MHz								
1696.60	H	44.37	-59.92	8.74	0.89	-52.07	-13.00	39.07
1696.60	V	49.94	-54.48	8.74	0.89	-46.63	-13.00	33.63
2544.90	H	43.32	-57.02	9.47	1.01	-48.56	-13.00	35.56
2544.90	V	45.00	-55.30	9.47	1.01	-46.84	-13.00	33.84
3393.20	H	36.43	-61.24	10.36	1.19	-52.07	-13.00	39.07
3393.20	V	35.52	-62.11	10.36	1.19	-52.94	-13.00	39.94
559.90	H	35.71	-69.92	0.00	0.47	-70.39	-13.00	57.39
374.60	V	39.92	-66.95	0.00	0.37	-67.32	-13.00	54.32

**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	46.84	-56.86	8.22	0.71	-49.35	-13.00	36.35
1399.40	V	55.27	-48.48	8.22	0.71	-40.97	-13.00	27.97
2099.10	H	47.34	-54.54	9.16	0.91	-46.29	-13.00	33.29
2099.10	V	51.59	-50.24	9.16	0.91	-41.99	-13.00	28.99
2798.80	H	39.24	-60.69	9.88	1.04	-51.85	-13.00	38.85
2798.80	V	38.66	-61.14	9.88	1.04	-52.30	-13.00	39.30
40.50	H	35.10	-50.10	-25.74	0.12	-75.96	-13.00	62.96
92.50	V	39.89	-68.87	0.00	0.18	-69.05	-13.00	56.05
QPSK, Frequency:707.5 MHz								
1415.00	H	45.90	-57.77	8.26	0.72	-50.23	-13.00	37.23
1415.00	V	47.34	-56.38	8.26	0.72	-48.84	-13.00	35.84
2122.50	H	45.75	-56.24	9.17	0.92	-47.99	-13.00	34.99
2122.50	V	50.41	-51.56	9.17	0.92	-43.31	-13.00	30.31
2830.00	H	37.64	-62.16	9.93	1.06	-53.29	-13.00	40.29
2830.00	V	38.16	-61.57	9.93	1.06	-52.70	-13.00	39.70
559.90	H	35.35	-70.28	0.00	0.47	-70.75	-13.00	57.75
374.60	V	39.71	-67.16	0.00	0.37	-67.53	-13.00	54.53
QPSK, Frequency: 715.3 MHz								
1430.60	H	45.62	-58.01	8.31	0.73	-50.43	-13.00	37.43
1430.60	V	47.06	-56.63	8.31	0.73	-49.05	-13.00	36.05
2145.90	H	46.66	-55.44	9.19	0.93	-47.18	-13.00	34.18
2145.90	V	51.81	-50.30	9.19	0.93	-42.04	-13.00	29.04
2861.20	H	35.20	-64.45	9.98	1.07	-55.54	-13.00	42.54
2861.20	V	36.10	-63.57	9.98	1.07	-54.66	-13.00	41.66
559.90	H	35.24	-70.39	0.00	0.47	-70.86	-13.00	57.86
374.60	V	39.57	-67.30	0.00	0.37	-67.67	-13.00	54.67

**LTE Band 13(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: 779.5 MHz								
1559.00	H	43.82	-60.17	8.57	0.80	-52.40	-40.00	12.4
1559.00	V	45.11	-58.94	8.57	0.80	-51.17	-40.00	11.17
2338.50	H	38.93	-62.66	9.30	0.97	-54.33	-13.00	41.33
2338.50	V	38.84	-62.52	9.30	0.97	-54.19	-13.00	41.19
3118.00	H	37.49	-60.00	10.25	1.13	-50.88	-13.00	37.88
3118.00	V	36.57	-60.78	10.25	1.13	-51.66	-13.00	38.66
559.90	H	35.72	-69.91	0.00	0.47	-70.38	-13.00	57.38
92.50	V	38.08	-70.68	0.00	0.18	-70.86	-13.00	57.86
QPSK, Frequency:784.5 MHz								
1569.00	H	45.53	-58.55	8.58	0.81	-50.78	-40.00	10.78
1569.00	V	44.11	-60.02	8.58	0.81	-52.25	-40.00	12.25
2353.50	H	37.26	-64.19	9.31	0.97	-55.85	-13.00	42.85
2353.50	V	38.51	-62.71	9.31	0.97	-54.37	-13.00	41.37
3138.00	H	36.67	-60.73	10.26	1.14	-51.61	-13.00	38.61
3138.00	V	36.37	-60.86	10.26	1.14	-51.74	-13.00	38.74
559.90	H	35.53	-70.10	0.00	0.47	-70.57	-13.00	57.57
92.50	V	38.31	-70.45	0.00	0.18	-70.63	-13.00	57.63

**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	40.02	-63.65	8.26	0.72	-56.11	-13.00	43.11
1413.00	V	41.75	-61.97	8.26	0.72	-54.43	-13.00	41.43
2119.50	H	41.04	-60.93	9.17	0.92	-52.68	-13.00	39.68
2119.50	V	43.01	-58.94	9.17	0.92	-50.69	-13.00	37.69
2826.00	H	35.79	-64.02	9.92	1.06	-55.16	-13.00	42.16
2826.00	V	37.40	-62.34	9.92	1.06	-53.48	-13.00	40.48
559.90	H	35.31	-70.32	0.00	0.47	-70.79	-13.00	57.79
374.60	V	38.80	-68.07	0.00	0.37	-68.44	-13.00	55.44
QPSK, Frequency: 710 MHz								
1420.00	H	39.50	-64.16	8.28	0.73	-56.61	-13.00	43.61
1420.00	V	41.33	-62.38	8.28	0.73	-54.83	-13.00	41.83
2130.00	H	39.11	-62.91	9.18	0.92	-54.65	-13.00	41.65
2130.00	V	43.01	-59.00	9.18	0.92	-50.74	-13.00	37.74
2840.00	H	36.14	-63.61	9.94	1.06	-54.73	-13.00	41.73
2840.00	V	35.28	-64.43	9.94	1.06	-55.55	-13.00	42.55
40.50	H	34.92	-50.28	-25.74	0.12	-76.14	-13.00	63.14
374.60	V	38.76	-68.11	0.00	0.37	-68.48	-13.00	55.48
QPSK, Frequency: 713.5 MHz								
1427.00	H	40.30	-63.34	8.30	0.73	-55.77	-13.00	42.77
1427.00	V	42.45	-61.24	8.30	0.73	-53.67	-13.00	40.67
2140.50	H	38.31	-63.76	9.18	0.93	-55.51	-13.00	42.51
2140.50	V	42.01	-60.07	9.18	0.93	-51.82	-13.00	38.82
2854.00	H	35.23	-64.46	9.97	1.07	-55.56	-13.00	42.56
2854.00	V	35.94	-63.74	9.97	1.07	-54.84	-13.00	41.84
559.90	H	35.26	-70.37	0.00	0.47	-70.84	-13.00	57.84
374.60	V	39.29	-67.58	0.00	0.37	-67.95	-13.00	54.95

**LTE Band 26(30MHz-10GHz):**

Frequency (MHz)	Polar (H/V)	Receiver Reading (dBμV)	Substituted Method			Absolute Level (dBm)	Limit (dBm)	Margin (dB)
			Substituted Level (dBm)	Antenna Gain (dBd/dBi)	Cable Loss (dB)			
QPSK, Frequency: 814.7 MHz								
1629.40	H	39.63	-64.72	8.66	0.81	-56.87	-13.00	43.87
1629.40	V	40.57	-63.84	8.66	0.81	-55.99	-13.00	42.99
2444.10	H	40.49	-60.40	9.37	1.00	-52.03	-13.00	39.03
2444.10	V	42.55	-58.20	9.37	1.00	-49.83	-13.00	36.83
3258.80	H	36.21	-60.65	10.30	1.17	-51.52	-13.00	38.52
3258.80	V	36.45	-60.16	10.30	1.17	-51.03	-13.00	38.03
317.10	H	35.28	-75.18	0.00	0.34	-75.52	-13.00	62.52
374.60	V	38.89	-67.98	0.00	0.37	-68.35	-13.00	55.35
QPSK, Frequency:531.5 MHz								
1663.00	H	40.29	-64.03	8.70	0.83	-56.16	-13.00	43.16
1663.00	V	39.38	-65.03	8.70	0.83	-57.16	-13.00	44.16
2494.50	H	41.26	-59.44	9.40	1.01	-51.05	-13.00	38.05
2494.50	V	40.72	-59.99	9.40	1.01	-51.60	-13.00	38.60
3326.00	H	37.06	-59.89	10.33	1.16	-50.72	-13.00	37.72
3326.00	V	36.42	-60.35	10.33	1.16	-51.18	-13.00	38.18
559.90	H	35.91	-69.72	0.00	0.47	-70.19	-13.00	57.19
374.60	V	38.72	-68.15	0.00	0.37	-68.52	-13.00	55.52
QPSK, Frequency: 848.3 MHz								
1696.60	H	41.18	-63.11	8.74	0.89	-55.26	-13.00	42.26
1696.60	V	40.85	-63.57	8.74	0.89	-55.72	-13.00	42.72
2544.90	H	39.64	-60.70	9.47	1.01	-52.24	-13.00	39.24
2544.90	V	41.35	-58.95	9.47	1.01	-50.49	-13.00	37.49
3393.20	H	36.24	-61.43	10.36	1.19	-52.26	-13.00	39.26
3393.20	V	36.43	-61.20	10.36	1.19	-52.03	-13.00	39.03
317.10	H	34.75	-75.71	0.00	0.34	-76.05	-13.00	63.05
374.60	V	39.16	-67.71	0.00	0.37	-68.08	-13.00	55.08

**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	35.02	-58.41	11.27	1.51	-48.65	-25.00	23.65
5115.00	V	35.47	-57.86	11.27	1.51	-48.10	-25.00	23.10
7672.50	H	34.37	-55.14	10.87	2.03	-46.30	-25.00	21.30
7672.50	V	34.54	-55.65	10.87	2.03	-46.81	-25.00	21.81
559.90	H	35.27	-70.36	0.00	0.47	-70.83	-25.00	45.83
67.20	V	42.09	-61.47	-6.48	0.15	-68.10	-25.00	43.10
QPSK, Frequency:2605 MHz								
5210.00	H	34.41	-59.67	11.33	1.45	-49.79	-25.00	24.79
5210.00	V	35.37	-58.55	11.33	1.45	-48.67	-25.00	23.67
7815.00	H	33.81	-55.59	10.84	1.99	-46.74	-25.00	21.74
7815.00	V	34.27	-55.52	10.84	1.99	-46.67	-25.00	21.67
559.90	H	35.53	-70.10	0.00	0.47	-70.57	-25.00	45.57
374.60	V	38.78	-68.09	0.00	0.37	-68.46	-25.00	43.46
QPSK, Frequency: 2652.5 MHz								
5305.00	H	35.18	-58.26	11.38	1.46	-48.34	-25.00	23.34
5305.00	V	37.39	-55.79	11.38	1.46	-45.87	-25.00	20.87
7957.50	H	33.85	-54.57	10.81	2.09	-45.85	-25.00	20.85
7957.50	V	34.88	-53.99	10.81	2.09	-45.27	-25.00	20.27
559.90	H	35.61	-70.02	0.00	0.47	-70.49	-25.00	45.49
92.50	V	39.77	-68.99	0.00	0.18	-69.17	-25.00	44.17



**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	35.29	-62.47	10.37	1.17	-53.27	-13.00	40.27
3421.40	V	35.88	-61.85	10.37	1.17	-52.65	-13.00	39.65
5132.10	H	35.43	-58.14	11.28	1.47	-48.33	-13.00	35.33
5132.10	V	35.45	-58.01	11.28	1.47	-48.20	-13.00	35.20
317.10	H	35.20	-75.26	0.00	0.34	-75.60	-13.00	62.60
374.60	V	38.42	-68.45	0.00	0.37	-68.82	-13.00	55.82
QPSK, Frequency:1745 MHz								
3490.00	H	36.19	-61.65	10.40	1.17	-52.42	-13.00	39.42
3490.00	V	35.20	-62.58	10.40	1.17	-53.35	-13.00	40.35
5235.00	H	34.44	-59.46	11.34	1.46	-49.58	-13.00	36.58
5235.00	V	34.99	-58.72	11.34	1.46	-48.84	-13.00	35.84
559.90	H	35.64	-69.99	0.00	0.47	-70.46	-13.00	57.46
399.90	V	38.77	-67.44	0.00	0.40	-67.84	-13.00	54.84
QPSK, Frequency: 1779.3 MHz								
3558.60	H	35.64	-62.03	10.46	1.22	-52.79	-13.00	39.79
3558.60	V	36.94	-60.63	10.46	1.22	-51.39	-13.00	38.39
5337.90	H	34.12	-59.35	11.40	1.47	-49.42	-13.00	36.42
5337.90	V	34.51	-58.82	11.40	1.47	-48.89	-13.00	35.89
559.90	H	35.14	-70.49	0.00	0.47	-70.96	-13.00	57.96
374.60	V	38.66	-68.21	0.00	0.37	-68.58	-13.00	55.58

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 \*\*\*\*\*