

Out of band emission, Band Edge

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

4.19 Radiated Spurious Emissions

Serial Number:	22O5	Test Date:	2023/03/27~2023/03/31
Test Site:	966-1, 966-2	Test Mode:	Transmitting
Tester:	Mack Huang, Carl Xue	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	24.5~24.9	Relative Humidity: (%)	55~64	ATM Pressure: (kPa)	101.3~101.6
----------------------	-----------	---------------------------	-------	---------------------------	-------------

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
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 (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								
706.70	H	20.74	-52.44	0.00	0.54	-52.98	-13.00	39.98
726.53	V	21.34	-48.00	0.00	0.52	-48.52	-13.00	35.52
1648.400	H	70.03	-34.30	8.68	0.80	-26.42	-13.00	13.42
1648.400	V	73.40	-31.01	8.68	0.80	-23.13	-13.00	10.13
2472.600	H	52.33	-48.45	9.38	1.00	-40.07	-13.00	27.07
2472.600	V	59.16	-41.57	9.38	1.00	-33.19	-13.00	20.19
3296.800	H	47.59	-49.09	10.32	1.15	-39.92	-13.00	26.92
3296.800	V	44.75	-51.69	10.32	1.15	-42.52	-13.00	29.52
GSM 850 Frequency:836.6MHz								
716.67	H	21.29	-51.69	0.00	0.50	-52.19	-13.00	39.19
708.93	V	20.74	-48.99	0.00	0.53	-49.52	-13.00	36.52
1673.200	H	74.14	-30.17	8.71	0.85	-22.31	-13.00	9.31
1673.200	V	77.16	-27.25	8.71	0.85	-19.39	-13.00	6.39
2509.800	H	52.68	-47.93	9.42	1.01	-39.52	-13.00	26.52
2509.800	V	50.15	-50.47	9.42	1.01	-42.06	-13.00	29.06
3346.400	H	45.36	-51.81	10.34	1.16	-42.63	-13.00	29.63
3346.400	V	47.28	-49.75	10.34	1.16	-40.57	-13.00	27.57
GSM 850 Frequency:848.8MHz								
724.24	H	21.02	-51.81	0.00	0.51	-52.32	-13.00	39.32
699.06	V	21.26	-48.68	0.00	0.55	-49.23	-13.00	36.23
1697.600	H	74.86	-29.43	8.74	0.90	-21.59	-13.00	8.59
1697.600	V	76.91	-27.51	8.74	0.90	-19.67	-13.00	6.67
2546.400	H	51.24	-49.09	9.47	1.01	-40.63	-13.00	27.63
2546.400	V	49.65	-50.63	9.47	1.01	-42.17	-13.00	29.17
3395.200	H	45.44	-52.25	10.36	1.19	-43.08	-13.00	30.08
3395.200	V	47.60	-50.06	10.36	1.19	-40.89	-13.00	27.89

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								
719.30	H	21.55	-51.38	0.00	0.49	-51.87	-13.00	38.87
701.88	V	21.13	-48.75	0.00	0.55	-49.30	-13.00	36.30
1652.800	H	43.83	-60.50	8.68	0.81	-52.63	-13.00	39.63
1652.800	V	47.81	-56.60	8.68	0.81	-48.73	-13.00	35.73
2479.200	H	41.03	-59.73	9.39	1.01	-51.35	-13.00	38.35
2479.200	V	37.63	-63.10	9.39	1.01	-54.72	-13.00	41.72
3305.600	H	35.74	-60.99	10.32	1.15	-51.82	-13.00	38.82
3305.600	V	35.12	-61.38	10.32	1.15	-52.21	-13.00	39.21
WCDMA Band 5 Frequency:836.6MHz								
661.30	H	21.21	-52.32	0.00	0.51	-52.83	-13.00	39.83
709.29	V	21.72	-48.00	0.00	0.52	-48.52	-13.00	35.52
1673.200	H	50.93	-53.38	8.71	0.85	-45.52	-13.00	32.52
1673.200	V	54.37	-50.04	8.71	0.85	-42.18	-13.00	29.18
2509.800	H	40.67	-59.94	9.42	1.01	-51.53	-13.00	38.53
2509.800	V	39.66	-60.96	9.42	1.01	-52.55	-13.00	39.55
3346.400	H	35.47	-61.70	10.34	1.16	-52.52	-13.00	39.52
3346.400	V	35.69	-61.34	10.34	1.16	-52.16	-13.00	39.16
WCDMA Band 5 Frequency:846.6MHz								
729.46	H	21.10	-51.62	0.00	0.53	-52.15	-13.00	39.15
694.55	V	21.41	-48.61	0.00	0.55	-49.16	-13.00	36.16
1693.200	H	56.74	-47.56	8.73	0.89	-39.72	-13.00	26.72
1693.200	V	58.78	-45.64	8.73	0.89	-37.80	-13.00	24.80
2539.800	H	43.08	-57.30	9.46	1.01	-48.85	-13.00	35.85
2539.800	V	42.44	-57.90	9.46	1.01	-49.45	-13.00	36.45
3386.400	H	35.63	-61.96	10.35	1.18	-52.79	-13.00	39.79
3386.400	V	34.78	-62.76	10.35	1.18	-53.59	-13.00	40.59

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								
69.13	H	30.56	-73.23	-5.46	0.15	-78.84	-13.00	65.84
31.51	V	37.53	-43.91	-25.61	0.10	-69.62	-13.00	56.62
3700.400	H	46.78	-50.54	10.60	1.25	-41.19	-13.00	28.19
3700.400	V	48.23	-49.07	10.60	1.25	-39.72	-13.00	26.72
5550.600	H	47.33	-45.93	11.44	1.49	-35.98	-13.00	22.98
5550.600	V	50.02	-43.08	11.44	1.49	-33.13	-13.00	20.13
GSM 1900 Frequency:1880MHz								
76.52	H	29.72	-77.97	-1.74	0.16	-79.87	-13.00	66.87
45.35	V	37.27	-59.38	-19.46	0.12	-78.96	-13.00	65.96
3760.000	H	48.75	-47.66	10.66	1.24	-38.24	-13.00	25.24
3760.000	V	48.33	-47.96	10.66	1.24	-38.54	-13.00	25.54
5640.000	H	42.63	-50.82	11.33	1.54	-41.03	-13.00	28.03
5640.000	V	50.72	-42.61	11.33	1.54	-32.82	-13.00	19.82
GSM 1900 Frequency:1909.8MHz								
75.72	H	29.55	-77.66	-2.14	0.16	-79.96	-13.00	66.96
43.90	V	37.67	-57.20	-21.25	0.12	-78.57	-13.00	65.57
3819.600	H	47.56	-48.30	10.72	1.29	-38.87	-13.00	25.87
3819.600	V	45.46	-50.26	10.72	1.29	-40.83	-13.00	27.83
5729.400	H	45.36	-48.12	11.22	1.59	-38.49	-13.00	25.49
5729.400	V	49.07	-44.29	11.22	1.59	-34.66	-13.00	21.66

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								
77.27	H	29.35	-78.79	-1.37	0.16	-80.32	-13.00	67.32
43.05	V	37.46	-56.31	-22.37	0.12	-78.80	-13.00	65.80
3704.800	H	38.73	-58.53	10.60	1.25	-49.18	-13.00	36.18
3704.800	V	36.12	-61.11	10.60	1.25	-51.76	-13.00	38.76
5557.200	H	35.49	-57.79	11.43	1.49	-47.85	-13.00	34.85
5557.200	V	37.80	-55.33	11.43	1.49	-45.39	-13.00	32.39
WCDMA Band II, Frequency:1880 MHz								
77.05	H	30.29	-77.72	-1.48	0.16	-79.36	-13.00	66.36
42.90	V	37.41	-56.17	-22.57	0.12	-78.86	-13.00	65.86
3760.000	H	38.45	-57.96	10.66	1.24	-48.54	-13.00	35.54
3760.000	V	36.78	-59.51	10.66	1.24	-50.09	-13.00	37.09
5640.000	H	35.41	-58.04	11.33	1.54	-48.25	-13.00	35.25
5640.000	V	37.97	-55.36	11.33	1.54	-45.57	-13.00	32.57
WCDMA Band II, Frequency:1907.6MHz								
75.37	H	30.06	-76.94	-2.32	0.16	-79.42	-13.00	66.42
32.29	V	37.43	-44.79	-25.25	0.10	-70.14	-13.00	57.14
3815.200	H	39.07	-56.78	10.72	1.29	-47.35	-13.00	34.35
3815.200	V	39.45	-56.24	10.72	1.29	-46.81	-13.00	33.81
5722.800	H	35.95	-57.54	11.23	1.58	-47.89	-13.00	34.89
5722.800	V	36.13	-57.22	11.23	1.58	-47.57	-13.00	34.57

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								
77.19	H	30.29	-77.80	-1.41	0.16	-79.37	-13.00	66.37
43.81	V	38.25	-56.51	-21.37	0.12	-78.00	-13.00	65.00
3424.800	H	35.42	-62.35	10.37	1.17	-53.15	-13.00	40.15
3424.800	V	34.78	-62.96	10.37	1.17	-53.76	-13.00	40.76
5137.200	H	35.16	-58.46	11.28	1.46	-48.64	-13.00	35.64
5137.200	V	35.04	-58.46	11.28	1.46	-48.64	-13.00	35.64
WCDMA Band IV, Frequency:1732.6 MHz								
75.93	H	30.18	-77.16	-2.04	0.16	-79.36	-13.00	66.36
42.90	V	37.16	-56.42	-22.57	0.12	-79.11	-13.00	66.11
3465.200	H	34.55	-63.26	10.39	1.15	-54.02	-13.00	41.02
3465.200	V	35.15	-62.62	10.39	1.15	-53.38	-13.00	40.38
5197.800	H	34.37	-59.76	11.32	1.44	-49.88	-13.00	36.88
5197.800	V	34.28	-59.70	11.32	1.44	-49.82	-13.00	36.82
WCDMA Band IV, Frequency:1752.6MHz								
77.01	H	29.62	-78.37	-1.50	0.16	-80.03	-13.00	67.03
43.65	V	37.39	-57.16	-21.58	0.12	-78.86	-13.00	65.86
3505.200	H	35.00	-62.83	10.41	1.18	-53.60	-13.00	40.60
3505.200	V	34.46	-63.31	10.41	1.18	-54.08	-13.00	41.08
5257.800	H	35.14	-58.59	11.35	1.47	-48.71	-13.00	35.71
5257.800	V	34.71	-58.80	11.35	1.47	-48.92	-13.00	35.92

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								
75.64	H	30.21	-76.95	-2.18	0.16	-79.29	-13.00	66.29
43.81	V	39.19	-55.57	-21.37	0.12	-77.06	-13.00	64.06
3701.400	H	42.81	-54.50	10.60	1.25	-45.15	-13.00	32.15
3701.400	V	41.26	-56.03	10.60	1.25	-46.68	-13.00	33.68
5552.100	H	39.76	-53.51	11.44	1.49	-43.56	-13.00	30.56
5552.100	V	45.12	-47.98	11.44	1.49	-38.03	-13.00	25.03
QPSK, Frequency: 1880 MHz								
77.10	H	30.18	-77.86	-1.45	0.16	-79.47	-13.00	66.47
42.90	V	38.54	-55.04	-22.57	0.12	-77.73	-13.00	64.73
3760.000	H	41.45	-54.96	10.66	1.24	-45.54	-13.00	32.54
3760.000	V	41.57	-54.72	10.66	1.24	-45.30	-13.00	32.30
5640.000	H	46.23	-47.22	11.33	1.54	-37.43	-13.00	24.43
5640.000	V	46.88	-46.45	11.33	1.54	-36.66	-13.00	23.66
QPSK, Frequency: 1909.3 MHz								
75.67	H	29.31	-77.87	-2.17	0.16	-80.20	-13.00	67.20
43.50	V	39.08	-55.28	-21.78	0.12	-77.18	-13.00	64.18
3818.600	H	40.61	-55.25	10.72	1.29	-45.82	-13.00	32.82
3818.600	V	42.87	-52.84	10.72	1.29	-43.41	-13.00	30.41
5727.900	H	41.97	-51.51	11.23	1.59	-41.87	-13.00	28.87
5727.900	V	46.59	-46.77	11.23	1.59	-37.13	-13.00	24.13

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								
74.35	H	29.60	-76.79	-2.83	0.16	-79.78	-13.00	66.78
43.65	V	39.37	-55.18	-21.58	0.12	-76.88	-13.00	63.88
3421.400	H	39.26	-58.50	10.37	1.17	-49.30	-13.00	36.30
3421.400	V	38.13	-59.60	10.37	1.17	-50.40	-13.00	37.40
5132.100	H	35.71	-57.86	11.28	1.47	-48.05	-13.00	35.05
5132.100	V	39.39	-54.07	11.28	1.47	-44.26	-13.00	31.26
QPSK, Frequency: 1732.5 MHz								
31.17	H	29.92	-42.84	-25.76	0.10	-68.70	-13.00	55.70
43.81	V	38.89	-55.87	-21.37	0.12	-77.36	-13.00	64.36
3465.000	H	34.78	-63.03	10.39	1.15	-53.79	-13.00	40.79
3465.000	V	35.23	-62.54	10.39	1.15	-53.30	-13.00	40.30
5197.500	H	35.27	-58.86	11.32	1.44	-48.98	-13.00	35.98
5197.500	V	40.62	-53.36	11.32	1.44	-43.48	-13.00	30.48
QPSK, Frequency: 1754.3MHz								
69.58	H	29.70	-74.08	-5.22	0.15	-79.45	-13.00	66.45
42.90	V	38.94	-54.64	-22.57	0.12	-77.33	-13.00	64.33
3508.600	H	39.12	-58.70	10.41	1.19	-49.48	-13.00	36.48
3508.600	V	36.58	-61.18	10.41	1.19	-51.96	-13.00	38.96
5262.900	H	53.93	-39.77	11.36	1.47	-29.88	-13.00	16.88
5262.900	V	43.42	-50.05	11.36	1.47	-40.16	-13.00	27.16

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								
724.36	H	21.72	-51.11	0.00	0.51	-51.62	-13.00	38.62
719.31	V	21.47	-48.03	0.00	0.49	-48.52	-13.00	35.52
1649.400	H	46.90	-57.43	8.68	0.80	-49.55	-13.00	36.55
1649.400	V	51.74	-52.67	8.68	0.80	-44.79	-13.00	31.79
2474.100	H	43.18	-57.60	9.38	1.00	-49.22	-13.00	36.22
2474.100	V	39.66	-61.07	9.38	1.00	-52.69	-13.00	39.69
3298.800	H	35.23	-61.45	10.32	1.15	-52.28	-13.00	39.28
3298.800	V	34.56	-61.88	10.32	1.15	-52.71	-13.00	39.71
QPSK, Frequency: 836.5 MHz								
729.46	H	21.52	-51.20	0.00	0.53	-51.73	-13.00	38.73
732.02	V	21.24	-47.98	0.00	0.53	-48.51	-13.00	35.51
1673.000	H	50.72	-53.59	8.71	0.85	-45.73	-13.00	32.73
1673.000	V	54.98	-49.43	8.71	0.85	-41.57	-13.00	28.57
2509.500	H	38.12	-62.49	9.42	1.01	-54.08	-13.00	41.08
2509.500	V	40.65	-59.97	9.42	1.01	-51.56	-13.00	38.56
3346.000	H	34.78	-62.38	10.34	1.16	-53.20	-13.00	40.20
3346.000	V	35.13	-61.89	10.34	1.16	-52.71	-13.00	39.71
QPSK, Frequency: 848.3 MHz								
721.83	H	21.08	-51.80	0.00	0.50	-52.30	-13.00	39.30
716.79	V	22.05	-47.50	0.00	0.50	-48.00	-13.00	35.00
1696.600	H	60.70	-43.59	8.74	0.89	-35.74	-13.00	22.74
1696.600	V	63.02	-41.40	8.74	0.89	-33.55	-13.00	20.55
2544.900	H	46.12	-54.22	9.47	1.01	-45.76	-13.00	32.76
2544.900	V	47.41	-52.89	9.47	1.01	-44.43	-13.00	31.43
3393.200	H	35.42	-62.25	10.36	1.19	-53.08	-13.00	40.08
3393.200	V	34.86	-62.77	10.36	1.19	-53.60	-13.00	40.60

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								
75.93	H	31.48	-75.86	-2.04	0.16	-78.06	-25.00	53.06
43.81	V	36.92	-57.84	-21.37	0.12	-79.33	-25.00	54.33
5005.000	H	36.66	-56.30	11.20	1.47	-46.57	-25.00	21.57
5005.000	V	37.29	-55.53	11.20	1.47	-45.80	-25.00	20.80
7507.500	H	34.69	-55.10	10.90	1.95	-46.15	-25.00	21.15
7507.500	V	35.47	-54.82	10.90	1.95	-45.87	-25.00	20.87
QPSK, Frequency:2535 MHz								
75.14	H	31.23	-75.63	-2.43	0.16	-78.22	-25.00	53.22
45.21	V	37.62	-58.89	-19.59	0.12	-78.60	-25.00	53.60
5070.000	H	36.67	-56.52	11.24	1.47	-46.75	-25.00	21.75
5070.000	V	35.54	-57.55	11.24	1.47	-47.78	-25.00	22.78
7605.000	H	33.52	-55.95	10.88	2.01	-47.08	-25.00	22.08
7605.000	V	34.07	-56.12	10.88	2.01	-47.25	-25.00	22.25
QPSK, Frequency: 2567.5 MHz								
75.40	H	30.04	-76.98	-2.30	0.16	-79.44	-25.00	54.44
43.35	V	37.06	-57.10	-21.98	0.12	-79.20	-25.00	54.20
5135.000	H	37.48	-56.12	11.28	1.47	-46.31	-25.00	21.31
5135.000	V	35.63	-57.86	11.28	1.47	-48.05	-25.00	23.05
7702.500	H	34.44	-55.08	10.86	1.97	-46.19	-25.00	21.19
7702.500	V	34.59	-55.59	10.86	1.97	-46.70	-25.00	21.70

LTE Band 12 (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: 699.7 MHz								
580.91	H	20.38	-53.86	0.00	0.46	-54.32	-13.00	41.32
566.84	V	21.05	-50.63	0.00	0.46	-51.09	-13.00	38.09
1399.400	H	42.00	-61.70	8.22	0.71	-54.19	-13.00	41.19
1399.400	V	48.96	-54.79	8.22	0.71	-47.28	-13.00	34.28
2099.100	H	35.46	-66.42	9.16	0.91	-58.17	-13.00	45.17
2099.100	V	34.77	-67.06	9.16	0.91	-58.81	-13.00	45.81
2798.800	H	35.03	-64.90	9.88	1.04	-56.06	-13.00	43.06
2798.800	V	35.27	-64.53	9.88	1.04	-55.69	-13.00	42.69
QPSK, Frequency: 707.5 MHz								
585.01	H	21.07	-53.09	0.00	0.46	-53.55	-13.00	40.55
593.25	V	20.95	-50.77	0.00	0.50	-51.27	-13.00	38.27
1415.000	H	41.66	-62.01	8.26	0.72	-54.47	-13.00	41.47
1415.000	V	48.34	-55.38	8.26	0.72	-47.84	-13.00	34.84
2122.500	H	35.10	-66.89	9.17	0.92	-58.64	-13.00	45.64
2122.500	V	34.63	-67.34	9.17	0.92	-59.09	-13.00	46.09
2830.000	H	34.78	-65.02	9.93	1.06	-56.15	-13.00	43.15
2830.000	V	35.12	-64.61	9.93	1.06	-55.74	-13.00	42.74
QPSK, Frequency: 715.3 MHz								
643.03	H	21.02	-52.61	0.00	0.52	-53.13	-13.00	40.13
623.07	V	20.70	-50.61	0.00	0.48	-51.09	-13.00	38.09
1430.600	H	38.09	-65.54	8.31	0.73	-57.96	-13.00	44.96
1430.600	V	47.49	-56.20	8.31	0.73	-48.62	-13.00	35.62
2145.900	H	35.45	-66.65	9.19	0.93	-58.39	-13.00	45.39
2145.900	V	35.16	-66.95	9.19	0.93	-58.69	-13.00	45.69
2861.200	H	34.75	-64.90	9.98	1.07	-55.99	-13.00	42.99
2861.200	V	35.21	-64.46	9.98	1.07	-55.55	-13.00	42.55

LTE Band 13 (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: 779.5 MHz								
661.26	H	20.92	-52.61	0.00	0.51	-53.12	-13.00	40.12
689.65	V	20.96	-49.15	0.00	0.54	-49.69	-13.00	36.69
1559.000	H	44.65	-59.34	8.57	0.80	-51.57	-40.00	11.57
1559.000	V	42.68	-61.37	8.57	0.80	-53.60	-40.00	13.60
2338.500	H	35.45	-66.14	9.30	0.97	-57.81	-13.00	44.81
2338.500	V	34.37	-66.99	9.30	0.97	-58.66	-13.00	45.66
3118.000	H	34.69	-62.80	10.25	1.13	-53.68	-13.00	40.68
3118.000	V	35.11	-62.24	10.25	1.13	-53.12	-13.00	40.12
QPSK, Frequency: 784.5 MHz								
729.40	H	20.73	-52.00	0.00	0.53	-52.53	-13.00	39.53
714.23	V	21.20	-48.41	0.00	0.50	-48.91	-13.00	35.91
1569.000	H	41.18	-62.90	8.58	0.81	-55.13	-40.00	15.13
1569.000	V	41.20	-62.93	8.58	0.81	-55.16	-40.00	15.16
2353.500	H	34.56	-66.89	9.31	0.97	-58.55	-13.00	45.55
2353.500	V	35.00	-66.22	9.31	0.97	-57.88	-13.00	44.88
3138.000	H	34.78	-62.62	10.26	1.14	-53.50	-13.00	40.50
3138.000	V	35.26	-61.97	10.26	1.14	-52.85	-13.00	39.85

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								
528.45	H	21.24	-54.03	0.00	0.44	-54.47	-13.00	41.47
576.82	V	21.01	-50.69	0.00	0.46	-51.15	-13.00	38.15
1413.000	H	42.26	-61.41	8.26	0.72	-53.87	-13.00	40.87
1413.000	V	47.06	-56.66	8.26	0.72	-49.12	-13.00	36.12
2119.500	H	36.85	-65.12	9.17	0.92	-56.87	-13.00	43.87
2119.500	V	36.50	-65.45	9.17	0.92	-57.20	-13.00	44.20
2826.000	H	35.00	-64.81	9.92	1.06	-55.95	-13.00	42.95
2826.000	V	35.38	-64.36	9.92	1.06	-55.50	-13.00	42.50
QPSK, Frequency: 710 MHz								
582.91	H	21.69	-52.51	0.00	0.46	-52.97	-13.00	39.97
620.85	V	21.48	-49.87	0.00	0.49	-50.36	-13.00	37.36
1420.000	H	43.29	-60.37	8.28	0.73	-52.82	-13.00	39.82
1420.000	V	48.26	-55.45	8.28	0.73	-47.90	-13.00	34.90
2130.000	H	35.87	-66.15	9.18	0.92	-57.89	-13.00	44.89
2130.000	V	35.42	-66.59	9.18	0.92	-58.33	-13.00	45.33
2840.000	H	36.11	-63.64	9.94	1.06	-54.76	-13.00	41.76
2840.000	V	35.27	-64.44	9.94	1.06	-55.56	-13.00	42.56
QPSK, Frequency: 713.5 MHz								
603.64	H	20.86	-52.98	0.00	0.50	-53.48	-13.00	40.48
582.86	V	21.17	-50.53	0.00	0.46	-50.99	-13.00	37.99
1427.000	H	43.82	-59.82	8.30	0.73	-52.25	-13.00	39.25
1427.000	V	50.59	-53.10	8.30	0.73	-45.53	-13.00	32.53
2140.500	H	35.46	-66.61	9.18	0.93	-58.36	-13.00	45.36
2140.500	V	34.78	-67.30	9.18	0.93	-59.05	-13.00	46.05
2854.000	H	35.03	-64.66	9.97	1.07	-55.76	-13.00	42.76
2854.000	V	35.13	-64.55	9.97	1.07	-55.65	-13.00	42.65

LTE Band 25 (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								
76.44	H	30.40	-77.24	-1.78	0.16	-79.18	-13.00	66.18
42.75	V	36.79	-56.59	-22.77	0.12	-79.48	-13.00	66.48
3700.800	H	42.26	-55.06	10.60	1.25	-45.71	-13.00	32.71
3700.800	V	40.63	-56.67	10.60	1.25	-47.32	-13.00	34.32
5551.200	H	42.59	-50.67	11.44	1.49	-40.72	-13.00	27.72
5551.200	V	47.25	-45.85	11.44	1.49	-35.90	-13.00	22.90
QPSK, Frequency: 1882.5 MHz								
77.01	H	29.71	-78.28	-1.50	0.16	-79.94	-13.00	66.94
43.81	V	37.85	-56.91	-21.37	0.12	-78.40	-13.00	65.40
3765.000	H	40.44	-55.89	10.67	1.25	-46.47	-13.00	33.47
3765.000	V	39.99	-56.22	10.67	1.25	-46.80	-13.00	33.80
5647.500	H	45.07	-48.38	11.32	1.55	-38.61	-13.00	25.61
5647.500	V	47.99	-45.34	11.32	1.55	-35.57	-13.00	22.57
QPSK, Frequency: 1914.3 MHz								
75.40	H	29.91	-77.11	-2.30	0.16	-79.57	-13.00	66.57
43.35	V	37.47	-56.69	-21.98	0.12	-78.79	-13.00	65.79
3828.600	H	39.81	-56.09	10.73	1.28	-46.64	-13.00	33.64
3828.600	V	39.99	-55.78	10.73	1.28	-46.33	-13.00	33.33
5742.900	H	40.35	-53.13	11.21	1.60	-43.52	-13.00	30.52
5742.900	V	43.13	-50.23	11.21	1.60	-40.62	-13.00	27.62

LTE Band 26(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: 814.7 MHz								
706.71	H	21.37	-51.81	0.00	0.54	-52.35	-13.00	39.35
696.87	V	21.92	-48.06	0.00	0.55	-48.61	-13.00	35.61
1629.400	H	44.31	-60.04	8.66	0.81	-52.19	-13.00	39.19
1629.400	V	47.44	-56.97	8.66	0.81	-49.12	-13.00	36.12
2444.100	H	40.84	-60.05	9.37	1.00	-51.68	-13.00	38.68
2444.100	V	40.29	-60.46	9.37	1.00	-52.09	-13.00	39.09
3258.800	H	34.63	-62.23	10.30	1.17	-53.10	-13.00	40.10
3258.800	V	35.17	-61.44	10.30	1.17	-52.31	-13.00	39.31
QPSK, Frequency:831.5 MHz								
731.90	H	21.29	-51.39	0.00	0.53	-51.92	-13.00	38.92
716.68	V	21.28	-48.28	0.00	0.50	-48.78	-13.00	35.78
1663.000	H	59.85	-44.47	8.70	0.83	-36.60	-13.00	23.60
1663.000	V	62.89	-41.52	8.70	0.83	-33.65	-13.00	20.65
2494.500	H	45.69	-55.01	9.40	1.01	-46.62	-13.00	33.62
2494.500	V	46.39	-54.32	9.40	1.01	-45.93	-13.00	32.93
3326.000	H	34.57	-62.38	10.33	1.16	-53.21	-13.00	40.21
3326.000	V	35.46	-61.31	10.33	1.16	-52.14	-13.00	39.14
QPSK, Frequency: 848.3 MHz								
716.68	H	21.23	-51.75	0.00	0.50	-52.25	-13.00	39.25
721.72	V	21.08	-48.37	0.00	0.50	-48.87	-13.00	35.87
1696.600	H	61.55	-42.74	8.74	0.89	-34.89	-13.00	21.89
1696.600	V	64.05	-40.37	8.74	0.89	-32.52	-13.00	19.52
2544.900	H	45.81	-54.53	9.47	1.01	-46.07	-13.00	33.07
2544.900	V	47.77	-52.53	9.47	1.01	-44.07	-13.00	31.07
3393.200	H	35.45	-62.22	10.36	1.19	-53.05	-13.00	40.05
3393.200	V	34.78	-62.85	10.36	1.19	-53.68	-13.00	40.68

LTE Band 38 (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: 2572.5MHz								
75.62	H	29.83	-77.32	-2.19	0.16	-79.67	-25.00	54.67
43.81	V	36.98	-57.78	-21.37	0.12	-79.27	-25.00	54.27
5145.000	H	34.69	-58.99	11.29	1.44	-49.14	-25.00	24.14
5145.000	V	35.24	-58.33	11.29	1.44	-48.48	-25.00	23.48
7717.500	H	35.03	-54.48	10.86	1.99	-45.61	-25.00	20.61
7717.500	V	34.78	-55.35	10.86	1.99	-46.48	-25.00	21.48
QPSK, Frequency:2595 MHz								
75.66	H	29.51	-77.67	-2.17	0.16	-80.00	-25.00	55.00
40.41	V	37.94	-52.41	-25.86	0.11	-78.38	-25.00	53.38
5190.000	H	35.46	-58.61	11.31	1.44	-48.74	-25.00	23.74
5190.000	V	35.12	-58.80	11.31	1.44	-48.93	-25.00	23.93
7785.000	H	34.08	-55.41	10.84	1.99	-46.56	-25.00	21.56
7785.000	V	35.23	-54.69	10.84	1.99	-45.84	-25.00	20.84
QPSK, Frequency: 2617.5 MHz								
74.09	H	27.06	-79.17	-2.96	0.16	-82.29	-25.00	57.29
43.81	V	38.24	-56.52	-21.37	0.12	-78.01	-25.00	53.01
5235.000	H	38.47	-55.43	11.34	1.46	-45.55	-25.00	20.55
5235.000	V	35.63	-58.08	11.34	1.46	-48.20	-25.00	23.20
7852.500	H	35.11	-54.08	10.83	2.03	-45.28	-25.00	20.28
7852.500	V	34.81	-54.77	10.83	2.03	-45.97	-25.00	20.97

LTE Band 41 (30MHz-27GHz):

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: 2537.5 MHz								
76.46	H	30.05	-77.61	-1.77	0.16	-79.54	-25.00	54.54
43.81	V	36.95	-57.81	-21.37	0.12	-79.30	-25.00	54.30
5075.000	H	36.45	-56.76	11.25	1.48	-46.99	-25.00	21.99
5075.000	V	35.31	-57.80	11.25	1.48	-48.03	-25.00	23.03
7612.500	H	35.18	-54.30	10.88	2.02	-45.44	-25.00	20.44
7612.500	V	34.69	-55.50	10.88	2.02	-46.64	-25.00	21.64
QPSK, Frequency:2595 MHz								
75.67	H	30.90	-76.28	-2.17	0.16	-78.61	-25.00	53.61
43.65	V	37.25	-57.30	-21.58	0.12	-79.00	-25.00	54.00
5190.000	H	35.48	-58.59	11.31	1.44	-48.72	-25.00	23.72
5190.000	V	37.73	-56.19	11.31	1.44	-46.32	-25.00	21.32
7785.000	H	35.32	-54.17	10.84	1.99	-45.32	-25.00	20.32
7785.000	V	35.27	-54.65	10.84	1.99	-45.80	-25.00	20.80
QPSK, Frequency: 2652.5 MHz								
75.14	H	31.59	-75.27	-2.43	0.16	-77.86	-25.00	52.86
43.65	V	37.62	-56.93	-21.58	0.12	-78.63	-25.00	53.63
5305.000	H	35.23	-58.21	11.38	1.46	-48.29	-25.00	23.29
5305.000	V	34.77	-58.41	11.38	1.46	-48.49	-25.00	23.49
7957.500	H	35.12	-53.30	10.81	2.09	-44.58	-25.00	19.58
7957.500	V	35.30	-53.57	10.81	2.09	-44.85	-25.00	19.85

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								
75.97	H	30.80	-76.56	-2.02	0.16	-78.74	-13.00	65.74
43.65	V	37.36	-57.19	-21.58	0.12	-78.89	-13.00	65.89
3421.400	H	38.91	-58.85	10.37	1.17	-49.65	-13.00	36.65
3421.400	V	38.15	-59.58	10.37	1.17	-50.38	-13.00	37.38
5132.100	H	35.11	-58.46	11.28	1.47	-48.65	-13.00	35.65
5132.100	V	36.78	-56.68	11.28	1.47	-46.87	-13.00	33.87
QPSK, Frequency:1745 MHz								
75.44	H	31.03	-76.01	-2.28	0.16	-78.45	-13.00	65.45
43.35	V	38.20	-55.96	-21.98	0.12	-78.06	-13.00	65.06
3490.000	H	37.29	-60.55	10.40	1.17	-51.32	-13.00	38.32
3490.000	V	35.69	-62.09	10.40	1.17	-52.86	-13.00	39.86
5235.000	H	37.59	-56.31	11.34	1.46	-46.43	-13.00	33.43
5235.000	V	41.02	-52.69	11.34	1.46	-42.81	-13.00	29.81
QPSK, Frequency: 1779.3 MHz								
74.91	H	30.86	-75.87	-2.55	0.16	-78.58	-13.00	65.58
43.81	V	38.01	-56.75	-21.37	0.12	-78.24	-13.00	65.24
3558.600	H	38.32	-59.35	10.46	1.22	-50.11	-13.00	37.11
3558.600	V	39.80	-57.77	10.46	1.22	-48.53	-13.00	35.53
5337.900	H	41.17	-52.30	11.40	1.47	-42.37	-13.00	29.37
5337.900	V	43.55	-49.78	11.40	1.47	-39.85	-13.00	26.85

LTE Band 71 (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: 665.5 MHz								
553.01	H	20.94	-53.85	0.00	0.48	-54.33	-13.00	41.33
543.54	V	20.79	-50.86	0.00	0.47	-51.33	-13.00	38.33
1331.000	H	43.49	-59.54	8.03	0.76	-52.27	-13.00	39.27
1331.000	V	45.79	-57.57	8.03	0.76	-50.30	-13.00	37.30
1996.500	H	35.65	-66.51	9.10	0.89	-58.30	-13.00	45.30
1996.500	V	35.46	-66.08	9.10	0.89	-57.87	-13.00	44.87
2662.000	H	35.05	-64.91	9.66	1.06	-56.31	-13.00	43.31
2662.000	V	35.25	-64.63	9.66	1.06	-56.03	-13.00	43.03
QPSK, Frequency: 680.5 MHz								
521.04	H	20.80	-54.62	0.00	0.41	-55.03	-13.00	42.03
501.46	V	21.07	-50.51	0.00	0.45	-50.96	-13.00	37.96
1361.000	H	40.98	-62.35	8.11	0.77	-55.01	-13.00	42.01
1361.000	V	43.68	-59.85	8.11	0.77	-52.51	-13.00	39.51
2041.500	H	35.78	-66.25	9.12	0.91	-58.04	-13.00	45.04
2041.500	V	36.01	-65.63	9.12	0.91	-57.42	-13.00	44.42
2722.000	H	35.41	-64.56	9.76	1.05	-55.85	-13.00	42.85
2722.000	V	35.23	-64.68	9.76	1.05	-55.97	-13.00	42.97
QPSK, Frequency: 695.5 MHz								
485.79	H	21.15	-54.97	0.00	0.43	-55.40	-13.00	42.40
578.91	V	21.37	-50.33	0.00	0.46	-50.79	-13.00	37.79
1391.000	H	39.44	-64.18	8.19	0.72	-56.71	-13.00	43.71
1391.000	V	44.68	-59.02	8.19	0.72	-51.55	-13.00	38.55
2086.500	H	35.23	-66.68	9.15	0.91	-58.44	-13.00	45.44
2086.500	V	35.17	-66.62	9.15	0.91	-58.38	-13.00	45.38
2782.000	H	34.89	-65.05	9.85	1.05	-56.25	-13.00	43.25
2782.000	V	35.56	-64.27	9.85	1.05	-55.47	-13.00	42.47

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 =====