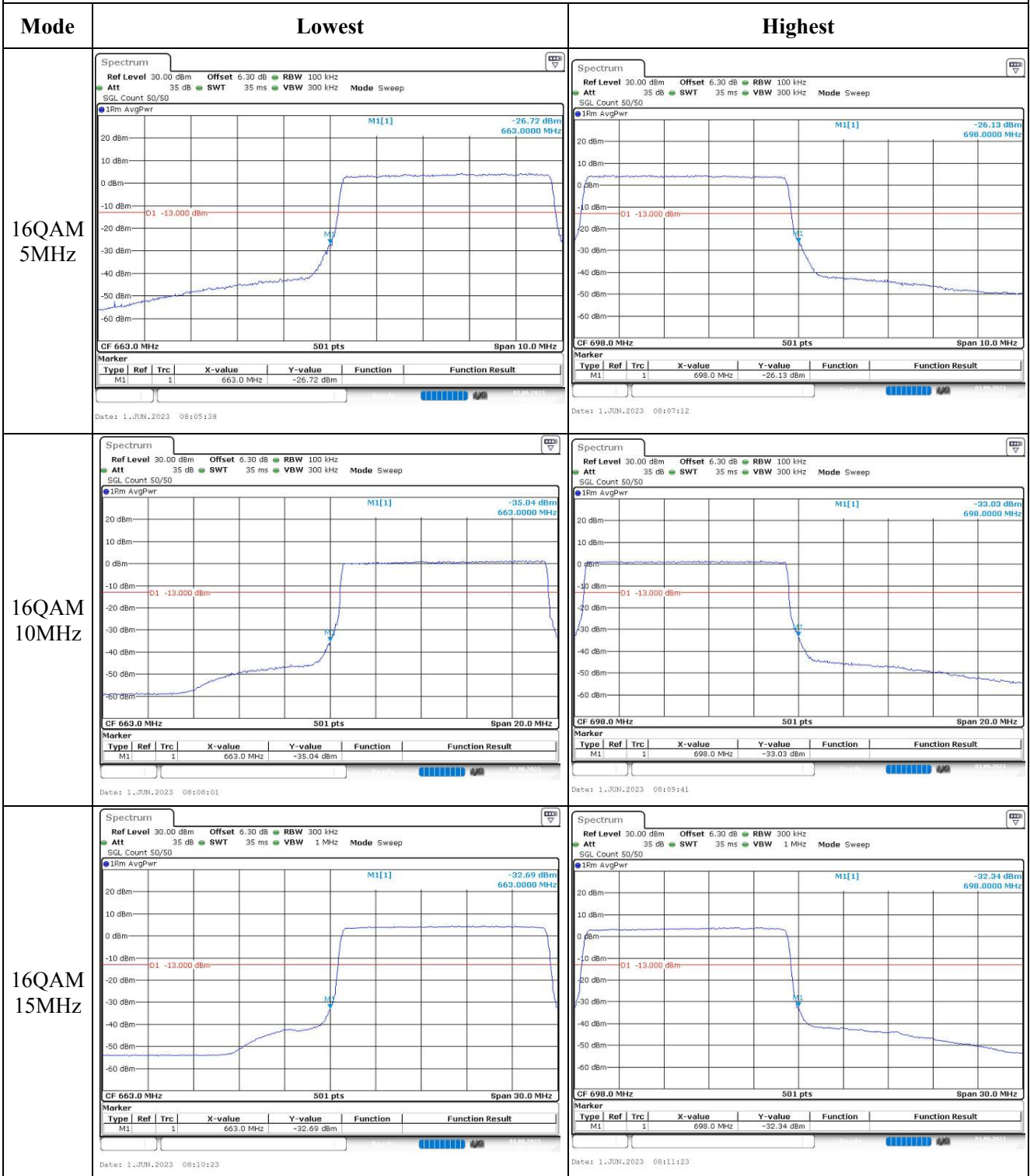
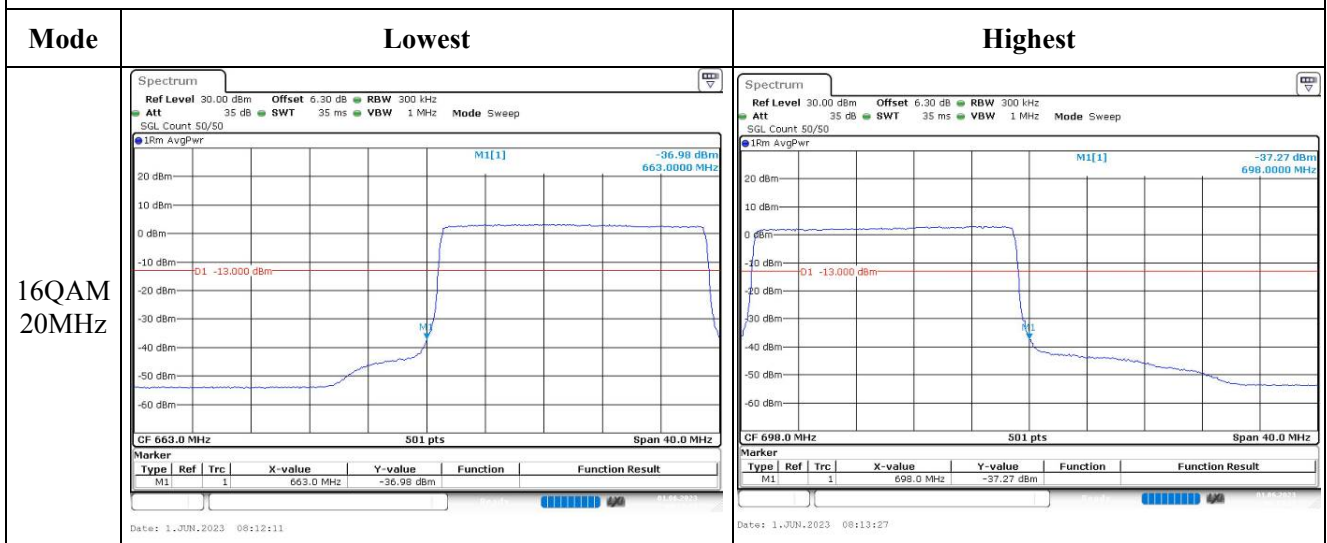


Out of band emission, Band Edge



Out of band emission, Band Edge



4.20 Radiated Spurious Emissions

Serial Number:	25K9-3	Test Date:	2023/05/16~2023/05/18
Test Site:	966-1/966-2	Test Mode:	Transmitting
Tester:	Vic Du, Mack Huang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	25.9~27.4	Relative Humidity: (%)	63~65	ATM Pressure: (kPa)	100.1~100.3
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Sunol Sciences	Antenna	JB6	A082520-5	2020/10/19	2023/10/18
R&S	EMI Test Receiver	ESR3	102724	2022/07/15	2023/07/14
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0470-02	2022/07/17	2023/07/16
TIMES MICROWAVE	Coaxial Cable	LMR-600-UltraFlex	C-0780-01	2022/07/17	2023/07/16
Sonoma	Amplifier	310N	186165	2022/07/17	2023/07/16
EMCO	Adjustable Dipole Antenna	3121C	9109-756	N/A	N/A
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
Agilent	Signal Generator	E8247C	MY43321352	2022/11/18	2023/11/17
ETS-Lindgren	Horn Antenna	3115	9912-5985	2020/10/13	2023/10/12
R&S	Spectrum Analyzer	FSV40	101591	2022/07/15	2023/07/14
MICRO-COAX	Coaxial Cable	UFA210A-1-1200-70U300	217423-008	2022/08/07	2023/08/06
MICRO-COAX	Coaxial Cable	UFA210A-1-2362-300300	235780-001	2022/08/07	2023/08/06
Mini	Pre-amplifier	ZVA-183-S+	5969001149	2022/11/09	2023/11/08
AH	Double Ridge Guide Horn Antenna	SAS-571	1396	2021/10/18	2024/10/17
MICRO-COAX	Coaxial Cable	UFA210B-0-0720-300300	99G1448	2022/07/17	2023/07/16
PASTERNAK	Horn Antenna	PE9852/2F-20	112002	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9852/2F-20	112001	2021/02/05	2024/02/04
AH	Preamplifier	PAM-1840VH	190	2022/11/09	2023/11/08
PASTERNAK	Horn Antenna	PE9850/2F-20	072001	2021/02/05	2024/02/04
PASTERNAK	Horn Antenna	PE9850/2F-20	072002	2021/02/05	2024/02/04
MICRO-COAX	Coaxial Cable	UFB142A-1-2362-200200	235772-001	2022/08/07	2023/08/06

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

Please refer to the below table and plots.

Note: The device can be mounted in multiple orientations, test was performed with X,Y, Z Axis according to C63.26 figure 5, the worst orientation was photographed and it's data was recorded.

Cellular Band**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								
756.29	H	26.08	-46.10	0.00	0.52	-46.62	-13.00	33.62
868.70	V	28.59	-38.04	0.00	0.58	-38.62	-13.00	25.62
1648.400	H	46.83	-57.50	8.68	0.80	-49.62	-13.00	36.62
1648.400	V	49.69	-54.72	8.68	0.80	-46.84	-13.00	33.84
2472.600	H	48.96	-51.82	9.38	1.00	-43.44	-13.00	30.44
2472.600	V	47.13	-53.60	9.38	1.00	-45.22	-13.00	32.22
3296.800	H	40.60	-56.08	10.32	1.15	-46.91	-13.00	33.91
3296.800	V	35.66	-60.78	10.32	1.15	-51.61	-13.00	38.61
GSM 850 Frequency:836.6MHz								
893.89	H	24.85	-44.07	0.00	0.66	-44.73	-13.00	31.73
639.04	V	29.29	-41.73	0.00	0.52	-42.25	-13.00	29.25
1673.200	H	44.84	-59.47	8.71	0.85	-51.61	-13.00	38.61
1673.200	V	48.84	-55.57	8.71	0.85	-47.71	-13.00	34.71
2509.800	H	44.83	-55.78	9.42	1.01	-47.37	-13.00	34.37
2509.800	V	44.92	-55.70	9.42	1.01	-47.29	-13.00	34.29
3346.400	H	37.46	-59.71	10.34	1.16	-50.53	-13.00	37.53
3346.400	V	35.39	-61.64	10.34	1.16	-52.46	-13.00	39.46
GSM 850 Frequency:848.8MHz								
893.89	H	24.51	-44.41	0.00	0.66	-45.07	-13.00	32.07
639.04	V	32.76	-38.26	0.00	0.52	-38.78	-13.00	25.78
1697.600	H	45.46	-58.83	8.74	0.90	-50.99	-13.00	37.99
1697.600	V	48.69	-55.73	8.74	0.90	-47.89	-13.00	34.89
2546.400	H	45.34	-54.99	9.47	1.01	-46.53	-13.00	33.53
2546.400	V	46.12	-54.16	9.47	1.01	-45.70	-13.00	32.70
3395.200	H	38.02	-59.67	10.36	1.19	-50.50	-13.00	37.50
3395.200	V	36.01	-61.65	10.36	1.19	-52.48	-13.00	39.48

PCS Band

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								
223.32	H	52.47	-59.96	0.00	0.28	-60.24	-13.00	47.24
79.91	V	48.29	-60.24	-0.05	0.16	-60.45	-13.00	47.45
3700.400	H	42.10	-55.22	10.60	1.25	-45.87	-13.00	32.87
3700.400	V	39.78	-57.52	10.60	1.25	-48.17	-13.00	35.17
5550.600	H	36.35	-56.91	11.44	1.49	-46.96	-13.00	33.96
5550.600	V	35.77	-57.33	11.44	1.49	-47.38	-13.00	34.38
GSM 1900 Frequency:1880MHz								
220.41	H	51.38	-61.11	0.00	0.27	-61.38	-13.00	48.38
78.94	V	48.48	-59.47	-0.53	0.16	-60.16	-13.00	47.16
3760.000	H	39.11	-57.30	10.66	1.24	-47.88	-13.00	34.88
3760.000	V	41.27	-55.02	10.66	1.24	-45.60	-13.00	32.60
5640.000	H	35.46	-57.99	11.33	1.54	-48.20	-13.00	35.20
5640.000	V	35.78	-57.55	11.33	1.54	-47.76	-13.00	34.76
GSM 1900 Frequency:1909.8MHz								
294.06	H	51.50	-59.36	0.00	0.33	-59.69	-13.00	46.69
79.91	V	48.16	-60.37	-0.05	0.16	-60.58	-13.00	47.58
3819.600	H	38.33	-57.53	10.72	1.29	-48.10	-13.00	35.10
3819.600	V	40.90	-54.82	10.72	1.29	-45.39	-13.00	32.39
5729.400	H	36.01	-57.47	11.22	1.59	-47.84	-13.00	34.84
5729.400	V	35.46	-57.90	11.22	1.59	-48.27	-13.00	35.27

WCDMA Band 2:**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 II, Frequency: 1852.4 MHz								
222.35	H	53.20	-59.25	0.00	0.27	-59.52	-13.00	46.52
84.75	V	49.17	-59.77	0.00	0.17	-59.94	-13.00	46.94
3704.800	H	43.21	-54.05	10.60	1.25	-44.70	-13.00	31.70
3704.800	V	47.37	-49.86	10.60	1.25	-40.51	-13.00	27.51
5557.200	H	35.63	-57.65	11.43	1.49	-47.71	-13.00	34.71
5557.200	V	36.12	-57.01	11.43	1.49	-47.07	-13.00	34.07
WCDMA Band II, Frequency: 1880 MHz								
221.38	H	53.29	-59.18	0.00	0.27	-59.45	-13.00	46.45
84.75	V	49.18	-59.76	0.00	0.17	-59.93	-13.00	46.93
3760.000	H	39.61	-56.80	10.66	1.24	-47.38	-13.00	34.38
3760.000	V	42.23	-54.06	10.66	1.24	-44.64	-13.00	31.64
5640.000	H	39.45	-54.00	11.33	1.54	-44.21	-13.00	31.21
5640.000	V	37.45	-55.88	11.33	1.54	-46.09	-13.00	33.09
WCDMA Band II, Frequency: 1907.6MHz								
222.35	H	53.16	-59.29	0.00	0.27	-59.56	-13.00	46.56
84.75	V	49.17	-59.77	0.00	0.17	-59.94	-13.00	46.94
3815.200	H	42.10	-53.75	10.72	1.29	-44.32	-13.00	31.32
3815.200	V	46.85	-48.84	10.72	1.29	-39.41	-13.00	26.41
5722.800	H	36.01	-57.48	11.23	1.58	-47.83	-13.00	34.83
5722.800	V	35.17	-58.18	11.23	1.58	-48.53	-13.00	35.53

WCDMA Band 4:

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								
295.03	H	51.72	-59.12	0.00	0.33	-59.45	-13.00	46.45
79.91	V	47.44	-61.09	-0.05	0.16	-61.30	-13.00	48.30
3424.800	H	38.99	-58.78	10.37	1.17	-49.58	-13.00	36.58
3424.800	V	39.69	-58.05	10.37	1.17	-48.85	-13.00	35.85
5137.200	H	42.04	-51.58	11.28	1.46	-41.76	-13.00	28.76
5137.200	V	46.53	-46.97	11.28	1.46	-37.15	-13.00	24.15
WCDMA Band IV, Frequency:1732.6 MHz								
224.29	H	51.37	-61.04	0.00	0.28	-61.32	-13.00	48.32
79.91	V	47.64	-60.89	-0.05	0.16	-61.10	-13.00	48.10
3465.200	H	43.04	-54.77	10.39	1.15	-45.53	-13.00	32.53
3465.200	V	42.32	-55.45	10.39	1.15	-46.21	-13.00	33.21
5197.800	H	41.63	-52.50	11.32	1.44	-42.62	-13.00	29.62
5197.800	V	44.73	-49.25	11.32	1.44	-39.37	-13.00	26.37
WCDMA Band IV, Frequency:1752.6MHz								
224.29	H	50.41	-62.00	0.00	0.28	-62.28	-13.00	49.28
79.91	V	47.79	-60.74	-0.05	0.16	-60.95	-13.00	47.95
3505.200	H	36.12	-61.71	10.41	1.18	-52.48	-13.00	39.48
3505.200	V	39.11	-58.66	10.41	1.18	-49.43	-13.00	36.43
5257.800	H	46.22	-47.51	11.35	1.47	-37.63	-13.00	24.63
5257.800	V	48.49	-45.02	11.35	1.47	-35.14	-13.00	22.14

WCDMA Band 5:

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)			
WCDMA Band 5 Frequency:826.4 MHz								
298.91	H	19.44	-59.99	0.00	0.34	-60.33	-13.00	47.33
871.60	V	23.96	-42.63	0.00	0.59	-43.22	-13.00	30.22
1652.800	H	36.01	-68.32	8.68	0.81	-60.45	-13.00	47.45
1652.800	V	35.77	-68.64	8.68	0.81	-60.77	-13.00	47.77
2479.200	H	51.05	-49.71	9.39	1.01	-41.33	-13.00	28.33
2479.200	V	48.84	-51.89	9.39	1.01	-43.51	-13.00	30.51
3305.600	H	36.23	-60.50	10.32	1.15	-51.33	-13.00	38.33
3305.600	V	35.78	-60.72	10.32	1.15	-51.55	-13.00	38.55
WCDMA Band 5 Frequency:836.6MHz								
296.00	H	19.99	-59.52	0.00	0.33	-59.85	-13.00	46.85
882.26	V	24.03	-42.39	0.00	0.59	-42.98	-13.00	29.98
1673.200	H	36.01	-68.30	8.71	0.85	-60.44	-13.00	47.44
1673.200	V	35.47	-68.94	8.71	0.85	-61.08	-13.00	48.08
2509.800	H	55.49	-45.12	9.42	1.01	-36.71	-13.00	23.71
2509.800	V	47.48	-53.14	9.42	1.01	-44.73	-13.00	31.73
3346.400	H	36.11	-61.06	10.34	1.16	-51.88	-13.00	38.88
3346.400	V	35.23	-61.80	10.34	1.16	-52.62	-13.00	39.62
WCDMA Band 5 Frequency:846.6MHz								
298.91	H	19.96	-59.47	0.00	0.34	-59.81	-13.00	46.81
891.95	V	24.36	-41.90	0.00	0.65	-42.55	-13.00	29.55
1693.200	H	36.35	-67.95	8.73	0.89	-60.11	-13.00	47.11
1693.200	V	36.12	-68.30	8.73	0.89	-60.46	-13.00	47.46
2539.800	H	52.33	-48.05	9.46	1.01	-39.60	-13.00	26.60
2539.800	V	47.78	-52.56	9.46	1.01	-44.11	-13.00	31.11
3386.400	H	35.78	-61.81	10.35	1.18	-52.64	-13.00	39.64
3386.400	V	36.01	-61.53	10.35	1.18	-52.36	-13.00	39.36

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, 1.4MHz, Frequency:1850.7 MHz								
85.72	H	45.44	-66.20	0.00	0.17	-66.37	-13.00	53.37
79.91	V	48.74	-59.79	-0.05	0.16	-60.00	-13.00	47.00
3701.400	H	44.99	-52.32	10.60	1.25	-42.97	-13.00	29.97
3701.400	V	44.09	-53.20	10.60	1.25	-43.85	-13.00	30.85
5552.100	H	46.41	-46.86	11.44	1.49	-36.91	-13.00	23.91
5552.100	V	47.60	-45.50	11.44	1.49	-35.55	-13.00	22.55
QPSK, 1.4MHz, Frequency:1880 MHz								
85.72	H	45.94	-65.70	0.00	0.17	-65.87	-13.00	52.87
79.91	V	49.20	-59.33	-0.05	0.16	-59.54	-13.00	46.54
3760.000	H	37.91	-58.50	10.66	1.24	-49.08	-13.00	36.08
3760.000	V	41.81	-54.48	10.66	1.24	-45.06	-13.00	32.06
5640.000	H	45.75	-47.70	11.33	1.54	-37.91	-13.00	24.91
5640.000	V	44.39	-48.94	11.33	1.54	-39.15	-13.00	26.15
QPSK, 1.4MHz, Frequency:1909.3 MHz								
86.69	H	44.49	-67.46	0.00	0.17	-67.63	-13.00	54.63
81.84	V	47.72	-61.00	0.00	0.16	-61.16	-13.00	48.16
3818.600	H	43.44	-52.42	10.72	1.29	-42.99	-13.00	29.99
3818.600	V	45.61	-50.10	10.72	1.29	-40.67	-13.00	27.67
5727.900	H	46.27	-47.21	11.23	1.59	-37.57	-13.00	24.57
5727.900	V	43.56	-49.80	11.23	1.59	-40.16	-13.00	27.16

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								
84.75	H	45.09	-66.23	0.00	0.17	-66.40	-13.00	53.40
80.87	V	48.09	-60.56	0.00	0.16	-60.72	-13.00	47.72
3421.400	H	38.82	-58.94	10.37	1.17	-49.74	-13.00	36.74
3421.400	V	38.80	-58.93	10.37	1.17	-49.73	-13.00	36.73
5132.100	H	44.44	-49.13	11.28	1.47	-39.32	-13.00	26.32
5132.100	V	44.32	-49.14	11.28	1.47	-39.33	-13.00	26.33
QPSK, Frequency: 1732.5 MHz								
85.72	H	45.47	-66.17	0.00	0.17	-66.34	-13.00	53.34
80.87	V	48.69	-59.96	0.00	0.16	-60.12	-13.00	47.12
3465.000	H	41.16	-56.65	10.39	1.15	-47.41	-13.00	34.41
3465.000	V	43.53	-54.24	10.39	1.15	-45.00	-13.00	32.00
5197.500	H	39.32	-54.81	11.32	1.44	-44.93	-13.00	31.93
5197.500	V	39.76	-54.22	11.32	1.44	-44.34	-13.00	31.34
QPSK, Frequency: 1754.3MHz								
86.69	H	44.49	-67.46	0.00	0.17	-67.63	-13.00	54.63
79.91	V	48.88	-59.65	-0.05	0.16	-59.86	-13.00	46.86
3508.600	H	39.74	-58.08	10.41	1.19	-48.86	-13.00	35.86
3508.600	V	42.67	-55.09	10.41	1.19	-45.87	-13.00	32.87
5262.900	H	44.14	-49.56	11.36	1.47	-39.67	-13.00	26.67
5262.900	V	44.14	-49.33	11.36	1.47	-39.44	-13.00	26.44

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, 1.4MHz, Frequency: 824.7 MHz								
84.75	H	15.13	-64.73	0.00	0.17	-64.90	-13.00	51.90
84.63	V	16.38	-61.06	0.00	0.17	-61.23	-13.00	48.23
1649.400	H	40.12	-64.21	8.68	0.80	-56.33	-13.00	43.33
1649.400	V	41.32	-63.09	8.68	0.80	-55.21	-13.00	42.21
2474.100	H	52.30	-48.48	9.38	1.00	-40.10	-13.00	27.10
2474.100	V	50.47	-50.26	9.38	1.00	-41.88	-13.00	28.88
3298.800	H	35.45	-61.23	10.32	1.15	-52.06	-13.00	39.06
3298.800	V	36.10	-60.34	10.32	1.15	-51.17	-13.00	38.17
QPSK, 1.4MHz, Frequency: 836.5 MHz								
85.72	H	16.05	-64.11	0.00	0.17	-64.28	-13.00	51.28
85.72	V	17.46	-60.04	0.00	0.17	-60.21	-13.00	47.21
1673.000	H	41.16	-63.15	8.71	0.85	-55.29	-13.00	42.29
1673.000	V	41.39	-63.02	8.71	0.85	-55.16	-13.00	42.16
2509.500	H	55.75	-44.86	9.42	1.01	-36.45	-13.00	23.45
2509.500	V	52.79	-47.83	9.42	1.01	-39.42	-13.00	26.42
3346.000	H	36.01	-61.15	10.34	1.16	-51.97	-13.00	38.97
3346.000	V	35.47	-61.55	10.34	1.16	-52.37	-13.00	39.37
QPSK, 1.4MHz, Frequency: 848.3 MHz								
81.84	H	15.38	-63.59	0.00	0.16	-63.75	-13.00	50.75
79.91	V	15.20	-61.90	-0.05	0.16	-62.11	-13.00	49.11
1696.600	H	42.07	-62.22	8.74	0.89	-54.37	-13.00	41.37
1696.600	V	39.47	-64.95	8.74	0.89	-57.10	-13.00	44.10
2544.900	H	58.34	-42.00	9.47	1.01	-33.54	-13.00	20.54
2544.900	V	54.34	-45.96	9.47	1.01	-37.50	-13.00	24.50
3393.200	H	35.49	-62.18	10.36	1.19	-53.01	-13.00	40.01
3393.200	V	36.21	-61.42	10.36	1.19	-52.25	-13.00	39.25

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, 5MHz, Frequency: 2502.5 MHz								
85.72	H	45.63	-66.01	0.00	0.17	-66.18	-25.00	41.18
80.87	V	49.22	-59.43	0.00	0.16	-59.59	-25.00	34.59
5005.000	H	34.11	-58.85	11.20	1.47	-49.12	-25.00	24.12
5005.000	V	34.01	-58.81	11.20	1.47	-49.08	-25.00	24.08
7507.500	H	33.86	-55.93	10.90	1.95	-46.98	-25.00	21.98
7507.500	V	34.12	-56.17	10.90	1.95	-47.22	-25.00	22.22
QPSK, 5MHz, Frequency: 2535 MHz								
85.72	H	45.24	-66.40	0.00	0.17	-66.57	-25.00	41.57
79.91	V	48.93	-59.60	-0.05	0.16	-59.81	-25.00	34.81
5070.000	H	36.52	-56.67	11.24	1.47	-46.90	-25.00	21.90
5070.000	V	35.12	-57.97	11.24	1.47	-48.20	-25.00	23.20
7605.000	H	33.78	-55.69	10.88	2.01	-46.82	-25.00	21.82
7605.000	V	34.03	-56.16	10.88	2.01	-47.29	-25.00	22.29
QPSK, 5MHz, Frequency: 2567.5 MHz								
81.84	H	44.27	-66.11	0.00	0.16	-66.27	-25.00	41.27
79.91	V	48.61	-59.92	-0.05	0.16	-60.13	-25.00	35.13
5135.000	H	35.05	-58.55	11.28	1.47	-48.74	-25.00	23.74
5135.000	V	34.25	-59.24	11.28	1.47	-49.43	-25.00	24.43
7702.500	H	34.29	-55.23	10.86	1.97	-46.34	-25.00	21.34
7702.500	V	33.69	-56.49	10.86	1.97	-47.60	-25.00	22.60

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, 1.4MHz, Frequency: 699.7 MHz								
296.97	H	19.52	-59.96	0.00	0.33	-60.29	-13.00	47.29
84.75	V	17.74	-59.71	0.00	0.17	-59.88	-13.00	46.88
1399.400	H	40.44	-63.26	8.22	0.71	-55.75	-13.00	42.75
1399.400	V	42.26	-61.49	8.22	0.71	-53.98	-13.00	40.98
2099.100	H	43.78	-58.10	9.16	0.91	-49.85	-13.00	36.85
2099.100	V	43.81	-58.02	9.16	0.91	-49.77	-13.00	36.77
2798.800	H	45.13	-54.80	9.88	1.04	-45.96	-13.00	32.96
2798.800	V	44.86	-54.94	9.88	1.04	-46.10	-13.00	33.10
QPSK, 1.4MHz, Frequency:707.5 MHz								
84.75	H	18.95	-60.91	0.00	0.17	-61.08	-13.00	48.08
301.81	V	20.95	-56.57	0.00	0.34	-56.91	-13.00	43.91
1415.000	H	46.04	-57.63	8.26	0.72	-50.09	-13.00	37.09
1415.000	V	42.55	-61.17	8.26	0.72	-53.63	-13.00	40.63
2122.500	H	52.64	-49.35	9.17	0.92	-41.10	-13.00	28.10
2122.500	V	50.07	-51.90	9.17	0.92	-43.65	-13.00	30.65
2830.000	H	36.45	-63.35	9.93	1.06	-54.48	-13.00	41.48
2830.000	V	37.10	-62.63	9.93	1.06	-53.76	-13.00	40.76
QPSK, 1.4MHz, Frequency: 715.3 MHz								
228.17	H	17.98	-63.05	0.00	0.29	-63.34	-13.00	50.34
85.72	V	17.98	-59.52	0.00	0.17	-59.69	-13.00	46.69
1430.600	H	41.12	-62.51	8.31	0.73	-54.93	-13.00	41.93
1430.600	V	39.95	-63.74	8.31	0.73	-56.16	-13.00	43.16
2145.900	H	40.01	-62.09	9.19	0.93	-53.83	-13.00	40.83
2145.900	V	38.89	-63.22	9.19	0.93	-54.96	-13.00	41.96
2861.200	H	40.97	-58.68	9.98	1.07	-49.77	-13.00	36.77
2861.200	V	42.06	-57.61	9.98	1.07	-48.70	-13.00	35.70

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, 5MHz, Frequency: 779.5 MHz								
579.93	H	20.54	-53.72	0.00	0.46	-54.18	-13.00	41.18
583.80	V	21.08	-50.63	0.00	0.46	-51.09	-13.00	38.09
1559.000	H	36.01	-67.98	8.57	0.80	-60.21	-40.00	20.21
1559.000	V	35.78	-68.27	8.57	0.80	-60.50	-40.00	20.50
2338.500	H	38.11	-63.48	9.30	0.97	-55.15	-13.00	42.15
2338.500	V	41.56	-59.80	9.30	0.97	-51.47	-13.00	38.47
3118.000	H	36.12	-61.37	10.25	1.13	-52.25	-13.00	39.25
3118.000	V	36.03	-61.32	10.25	1.13	-52.20	-13.00	39.20
QPSK, 5MHz, Frequency: 784.5 MHz								
637.10	H	21.23	-52.43	0.00	0.52	-52.95	-13.00	39.95
682.64	V	20.87	-49.36	0.00	0.53	-49.89	-13.00	36.89
1569.000	H	36.01	-68.07	8.58	0.81	-60.30	-40.00	20.30
1569.000	V	35.14	-68.99	8.58	0.81	-61.22	-40.00	21.22
2353.500	H	39.20	-62.25	9.31	0.97	-53.91	-13.00	40.91
2353.500	V	38.01	-63.21	9.31	0.97	-54.87	-13.00	41.87
3138.000	H	35.36	-62.04	10.26	1.14	-52.92	-13.00	39.92
3138.000	V	35.89	-61.34	10.26	1.14	-52.22	-13.00	39.22

LTE Band 14 (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, 5MHz, Frequency: 790.5 MHz								
470.42	H	20.54	-55.89	0.00	0.43	-56.32	-13.00	43.32
719.47	V	20.83	-48.67	0.00	0.49	-49.16	-13.00	36.16
1581.000	H	35.63	-68.56	8.60	0.81	-60.77	-40.00	20.77
1581.000	V	36.01	-68.23	8.60	0.81	-60.44	-40.00	20.44
2371.500	H	35.14	-66.16	9.32	0.97	-57.81	-13.00	44.81
2371.500	V	35.28	-65.77	9.32	0.97	-57.42	-13.00	44.42
3162.000	H	36.01	-61.28	10.26	1.13	-52.15	-13.00	39.15
3162.000	V	36.23	-60.86	10.26	1.13	-51.73	-13.00	38.73
QPSK, 5MHz, Frequency: 795.5 MHz								
583.80	H	20.97	-53.21	0.00	0.46	-53.67	-13.00	40.67
85.72	V	22.43	-55.07	0.00	0.17	-55.24	-13.00	42.24
1591.000	H	35.41	-68.88	8.61	0.82	-61.09	-40.00	21.09
1591.000	V	35.02	-69.30	8.61	0.82	-61.51	-40.00	21.51
2386.500	H	40.42	-60.75	9.33	0.98	-52.40	-13.00	39.40
2386.500	V	39.14	-61.77	9.33	0.98	-53.42	-13.00	40.42
3182.000	H	36.03	-61.17	10.27	1.12	-52.02	-13.00	39.02
3182.000	V	35.78	-61.19	10.27	1.12	-52.04	-13.00	39.04

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)			
5MHz, QPSK, Frequency: 706.5 MHz								
496.59	H	20.09	-55.81	0.00	0.45	-56.26	-13.00	43.26
564.42	V	20.15	-51.53	0.00	0.46	-51.99	-13.00	38.99
1413.000	H	40.34	-63.33	8.26	0.72	-55.79	-13.00	42.79
1413.000	V	38.41	-65.31	8.26	0.72	-57.77	-13.00	44.77
2119.500	H	46.51	-55.46	9.17	0.92	-47.21	-13.00	34.21
2119.500	V	41.53	-60.42	9.17	0.92	-52.17	-13.00	39.17
2826.000	H	35.21	-64.60	9.92	1.06	-55.74	-13.00	42.74
2826.000	V	35.12	-64.62	9.92	1.06	-55.76	-13.00	42.76
5MHz, QPSK, Frequency:710 MHz								
828.00	H	20.42	-50.17	0.00	0.61	-50.78	-13.00	37.78
884.20	V	21.31	-45.07	0.00	0.60	-45.67	-13.00	32.67
1420.000	H	38.49	-65.17	8.28	0.73	-57.62	-13.00	44.62
1420.000	V	36.59	-67.12	8.28	0.73	-59.57	-13.00	46.57
2130.000	H	44.39	-57.63	9.18	0.92	-49.37	-13.00	36.37
2130.000	V	50.89	-51.12	9.18	0.92	-42.86	-13.00	29.86
2840.000	H	35.47	-64.28	9.94	1.06	-55.40	-13.00	42.40
2840.000	V	35.12	-64.59	9.94	1.06	-55.71	-13.00	42.71
5MHz, QPSK, Frequency: 713.5 MHz								
565.39	H	20.09	-54.45	0.00	0.46	-54.91	-13.00	41.91
450.07	V	20.66	-52.90	0.00	0.43	-53.33	-13.00	40.33
1427.000	H	38.53	-65.11	8.30	0.73	-57.54	-13.00	44.54
1427.000	V	39.12	-64.57	8.30	0.73	-57.00	-13.00	44.00
2140.500	H	44.23	-57.84	9.18	0.93	-49.59	-13.00	36.59
2140.500	V	41.51	-60.57	9.18	0.93	-52.32	-13.00	39.32
2854.000	H	35.10	-64.59	9.97	1.07	-55.69	-13.00	42.69
2854.000	V	35.02	-64.66	9.97	1.07	-55.76	-13.00	42.76

LTE Band 25 (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)			
1.4MHz, QPSK, Frequency: 1850.7 MHz								
84.75	H	45.21	-66.11	0.00	0.17	-66.28	-13.00	53.28
83.78	V	47.58	-61.28	0.00	0.17	-61.45	-13.00	48.45
3700.800	H	41.23	-56.09	10.60	1.25	-46.74	-13.00	33.74
3700.800	V	40.39	-56.91	10.60	1.25	-47.56	-13.00	34.56
5551.200	H	42.54	-50.72	11.44	1.49	-40.77	-13.00	27.77
5551.200	V	41.01	-52.09	11.44	1.49	-42.14	-13.00	29.14
1.4MHz, QPSK, Frequency: 1882.5 MHz								
85.72	H	45.68	-65.96	0.00	0.17	-66.13	-13.00	53.13
82.81	V	47.84	-60.95	0.00	0.17	-61.12	-13.00	48.12
3765.000	H	40.43	-55.90	10.67	1.25	-46.48	-13.00	33.48
3765.000	V	42.61	-53.60	10.67	1.25	-44.18	-13.00	31.18
5647.500	H	44.64	-48.81	11.32	1.55	-39.04	-13.00	26.04
5647.500	V	40.32	-53.01	11.32	1.55	-43.24	-13.00	30.24
1.4MHz, QPSK, Frequency: 1914.3 MHz								
85.72	H	45.14	-66.50	0.00	0.17	-66.67	-13.00	53.67
80.87	V	48.66	-59.99	0.00	0.16	-60.15	-13.00	47.15
3828.600	H	39.45	-56.45	10.73	1.28	-47.00	-13.00	34.00
3828.600	V	43.14	-52.63	10.73	1.28	-43.18	-13.00	30.18
5742.900	H	43.08	-50.40	11.21	1.60	-40.79	-13.00	27.79
5742.900	V	41.11	-52.25	11.21	1.60	-42.64	-13.00	29.64

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)			
1.4MHz, QPSK, Frequency: 814.7 MHz								
905.52	H	21.87	-46.76	0.00	0.55	-47.31	-13.00	34.31
84.75	V	21.30	-56.15	0.00	0.17	-56.32	-13.00	43.32
1629.400	H	43.72	-60.63	8.66	0.81	-52.78	-13.00	39.78
1629.400	V	44.43	-59.98	8.66	0.81	-52.13	-13.00	39.13
2444.100	H	54.13	-46.76	9.37	1.00	-38.39	-13.00	25.39
2444.100	V	54.98	-45.77	9.37	1.00	-37.40	-13.00	24.40
3258.800	H	35.00	-61.86	10.30	1.17	-52.73	-13.00	39.73
3258.800	V	35.14	-61.47	10.30	1.17	-52.34	-13.00	39.34
1.4MHz, QPSK, Frequency:831.5 MHz								
718.50	H	21.55	-51.40	0.00	0.49	-51.89	-13.00	38.89
714.62	V	20.25	-49.35	0.00	0.50	-49.85	-13.00	36.85
1663.000	H	48.02	-56.30	8.70	0.83	-48.43	-13.00	35.43
1663.000	V	46.50	-57.91	8.70	0.83	-50.04	-13.00	37.04
2494.500	H	54.45	-46.25	9.40	1.01	-37.86	-13.00	24.86
2494.500	V	53.88	-46.83	9.40	1.01	-38.44	-13.00	25.44
3326.000	H	35.78	-61.17	10.33	1.16	-52.00	-13.00	39.00
3326.000	V	35.03	-61.74	10.33	1.16	-52.57	-13.00	39.57
1.4MHz, QPSK, Frequency: 848.3 MHz								
728.19	H	21.38	-51.37	0.00	0.52	-51.89	-13.00	38.89
491.74	V	21.24	-50.67	0.00	0.44	-51.11	-13.00	38.11
1696.600	H	45.30	-58.99	8.74	0.89	-51.14	-13.00	38.14
1696.600	V	42.30	-62.12	8.74	0.89	-54.27	-13.00	41.27
2544.900	H	55.52	-44.82	9.47	1.01	-36.36	-13.00	23.36
2544.900	V	54.69	-45.61	9.47	1.01	-37.15	-13.00	24.15
3393.200	H	35.01	-62.66	10.36	1.19	-53.49	-13.00	40.49
3393.200	V	35.17	-62.46	10.36	1.19	-53.29	-13.00	40.29

LTE Band 38 (30MHz-27GHz):

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)			
5MHz, QPSK, Frequency: 2572.5 MHz								
85.72	H	45.55	-66.09	0.00	0.17	-66.26	-25.00	41.26
79.91	V	48.73	-59.80	-0.05	0.16	-60.01	-25.00	35.01
5145.000	H	40.14	-53.54	11.29	1.44	-43.69	-25.00	18.69
5145.000	V	38.09	-55.48	11.29	1.44	-45.63	-25.00	20.63
7717.500	H	33.74	-55.77	10.86	1.99	-46.90	-25.00	21.90
7717.500	V	33.45	-56.68	10.86	1.99	-47.81	-25.00	22.81
5MHz, QPSK, Frequency: 2595 MHz								
85.72	H	45.33	-66.31	0.00	0.17	-66.48	-25.00	41.48
81.84	V	48.58	-60.14	0.00	0.16	-60.30	-25.00	35.30
5190.000	H	38.45	-55.62	11.31	1.44	-45.75	-25.00	20.75
5190.000	V	40.45	-53.47	11.31	1.44	-43.60	-25.00	18.60
7785.000	H	33.58	-55.91	10.84	1.99	-47.06	-25.00	22.06
7785.000	V	34.12	-55.80	10.84	1.99	-46.95	-25.00	21.95
5MHz, QPSK, Frequency: 2617.5 MHz								
85.72	H	45.33	-66.31	0.00	0.17	-66.48	-25.00	41.48
80.87	V	48.38	-60.27	0.00	0.16	-60.43	-25.00	35.43
5235.000	H	38.09	-55.81	11.34	1.46	-45.93	-25.00	20.93
5235.000	V	39.46	-54.25	11.34	1.46	-44.37	-25.00	19.37
7852.500	H	34.10	-55.09	10.83	2.03	-46.29	-25.00	21.29
7852.500	V	33.67	-55.91	10.83	2.03	-47.11	-25.00	22.11

LTE Band 41 (30MHz-27GHz):

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, 5MHz, Low Frequency For FCC: 2537.5 MHz								
84.75	H	45.64	-65.68	0.00	0.17	-65.85	-25.00	40.85
79.91	V	49.76	-58.77	-0.05	0.16	-58.98	-25.00	33.98
5075.000	H	41.33	-51.88	11.25	1.48	-42.11	-25.00	17.11
5075.000	V	38.57	-54.54	11.25	1.48	-44.77	-25.00	19.77
7612.500	H	34.06	-55.42	10.88	2.02	-46.56	-25.00	21.56
7612.500	V	34.59	-55.60	10.88	2.02	-46.74	-25.00	21.74
QPSK, 5MHz, Middle Frequency:2595 MHz								
84.75	H	45.74	-65.58	0.00	0.17	-65.75	-25.00	40.75
83.78	V	48.84	-60.02	0.00	0.17	-60.19	-25.00	35.19
5190.000	H	40.95	-53.12	11.31	1.44	-43.25	-25.00	18.25
5190.000	V	39.17	-54.75	11.31	1.44	-44.88	-25.00	19.88
7785.000	H	33.78	-55.71	10.84	1.99	-46.86	-25.00	21.86
7785.000	V	34.45	-55.47	10.84	1.99	-46.62	-25.00	21.62
QPSK, 5MHz, High Frequency: 2652.5 MHz								
84.75	H	45.44	-65.88	0.00	0.17	-66.05	-25.00	41.05
85.72	V	48.14	-60.87	0.00	0.17	-61.04	-25.00	36.04
5305.000	H	39.56	-53.88	11.38	1.46	-43.96	-25.00	18.96
5305.000	V	40.33	-52.85	11.38	1.46	-42.93	-25.00	17.93
7957.500	H	34.01	-54.41	10.81	2.09	-45.69	-25.00	20.69
7957.500	V	33.52	-55.35	10.81	2.09	-46.63	-25.00	21.63

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)			
1.4MHz, QPSK, Frequency: 1710.7 MHz								
82.81	H	44.90	-65.79	0.00	0.17	-65.96	-13.00	52.96
79.91	V	48.37	-60.16	-0.05	0.16	-60.37	-13.00	47.37
3421.400	H	37.68	-60.08	10.37	1.17	-50.88	-13.00	37.88
3421.400	V	38.26	-59.47	10.37	1.17	-50.27	-13.00	37.27
5132.100	H	46.54	-47.03	11.28	1.47	-37.22	-13.00	24.22
5132.100	V	45.60	-47.86	11.28	1.47	-38.05	-13.00	25.05
1.4MHz, QPSK, Frequency:1745 MHz								
85.72	H	45.06	-66.58	0.00	0.17	-66.75	-13.00	53.75
79.91	V	48.73	-59.80	-0.05	0.16	-60.01	-13.00	47.01
3490.000	H	37.70	-60.14	10.40	1.17	-50.91	-13.00	37.91
3490.000	V	37.68	-60.10	10.40	1.17	-50.87	-13.00	37.87
5235.000	H	40.54	-53.36	11.34	1.46	-43.48	-13.00	30.48
5235.000	V	40.14	-53.57	11.34	1.46	-43.69	-13.00	30.69
1.4MHz, QPSK, Frequency: 1779.3 MHz								
85.72	H	45.35	-66.29	0.00	0.17	-66.46	-13.00	53.46
80.87	V	48.27	-60.38	0.00	0.16	-60.54	-13.00	47.54
3558.600	H	37.93	-59.74	10.46	1.22	-50.50	-13.00	37.50
3558.600	V	40.08	-57.49	10.46	1.22	-48.25	-13.00	35.25
5337.900	H	40.84	-52.63	11.40	1.47	-42.70	-13.00	29.70
5337.900	V	41.91	-51.42	11.40	1.47	-41.49	-13.00	28.49

LTE Band 71 (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)			
5MHz, QPSK, Frequency: 665.5 MHz								
872.57	H	21.18	-48.28	0.00	0.59	-48.87	-13.00	35.87
621.59	V	21.42	-49.92	0.00	0.49	-50.41	-13.00	37.41
1331.000	H	42.04	-60.99	8.03	0.76	-53.72	-13.00	40.72
1331.000	V	39.82	-63.54	8.03	0.76	-56.27	-13.00	43.27
1996.500	H	52.62	-49.54	9.10	0.89	-41.33	-13.00	28.33
1996.500	V	41.31	-60.23	9.10	0.89	-52.02	-13.00	39.02
2662.000	H	35.69	-64.27	9.66	1.06	-55.67	-13.00	42.67
2662.000	V	39.73	-60.15	9.66	1.06	-51.55	-13.00	38.55
5MHz, QPSK, Frequency: 680.5 MHz								
818.31	H	21.16	-49.68	0.00	0.54	-50.22	-13.00	37.22
548.92	V	20.51	-51.14	0.00	0.47	-51.61	-13.00	38.61
1361.000	H	40.98	-62.35	8.11	0.77	-55.01	-13.00	42.01
1361.000	V	38.62	-64.91	8.11	0.77	-57.57	-13.00	44.57
2041.500	H	44.86	-57.17	9.12	0.91	-48.96	-13.00	35.96
2041.500	V	45.25	-56.39	9.12	0.91	-48.18	-13.00	35.18
2722.000	H	35.01	-64.96	9.76	1.05	-56.25	-13.00	43.25
2722.000	V	40.72	-59.19	9.76	1.05	-50.48	-13.00	37.48
5MHz, QPSK, Frequency: 695.5 MHz								
594.46	H	20.82	-53.15	0.00	0.51	-53.66	-13.00	40.66
872.57	V	21.53	-45.04	0.00	0.59	-45.63	-13.00	32.63
1391.000	H	40.18	-63.44	8.19	0.72	-55.97	-13.00	42.97
1391.000	V	39.24	-64.46	8.19	0.72	-56.99	-13.00	43.99
2086.500	H	44.58	-57.33	9.15	0.91	-49.09	-13.00	36.09
2086.500	V	43.77	-58.02	9.15	0.91	-49.78	-13.00	36.78
2782.000	H	35.46	-64.48	9.85	1.05	-55.68	-13.00	42.68
2782.000	V	36.02	-63.81	9.85	1.05	-55.01	-13.00	42.01

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 =====