

FCC Test Report (PART 22)

Report No.: RFBCKS-WTW-P21010667

FCC ID: 2AAAS-CC06

Test Model: EG91-NAX

Received Date: Jan. 27, 2021

Test Date: Feb. 04 to 05, 2021

Issued Date: Feb. 20, 2021

Applicant: Vivint, Inc.

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Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Hsin Chu Laboratory

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Taiwan

Test Location: E-2, No.1, Li Hsin 1st Road, Hsinchu Science Park, Hsinchu City 300,
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**FCC Registration /
Designation Number:** 723255 / TW2022



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Release Control Record

Issue No.	Description	Date Issued
RFBCKS-WTW-P21010667	Original release.	Feb. 20, 2021

2 Summary of Test Results

Applied Standard: FCC Part 22 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 22.913 (a)	Effective radiated power	PASS	Meet the requirement of limit.
22.913(d)	Peak to Average Ratio	N/A	Refer to Note 2 below
2.1047	Modulation characteristics	N/A	Refer to Note 2 below
2.1055 22.355	Frequency Stability	N/A	Refer to Note 2 below
2.1049	Occupied Bandwidth	N/A	Refer to Note 2 below
22.917	Band Edge Measurements	N/A	Refer to Note 2 below
2.1051 22.917	Conducted Spurious Emissions	N/A	Refer to Note 2 below
2.1053 22.917	Radiated Spurious Emissions	PASS	Meet the requirement of limit. Minimum passing margin is -48.38 dB at 3764.25 MHz.

Note:

1. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.
2. Effective radiated power and Radiated Spurious Emissions were performed for this addendum. The others testing data refer to original test report.
3. This report is prepared for supplementary report.

2.1 Measurement Uncertainty

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

Measurement	Frequency	Expanded Uncertainty (k=2) (±)
Radiated Emissions up to 1 GHz	9kHz ~ 30MHz	3.1 dB
	30MHz ~ 1GHz	5.4 dB
Radiated Emissions above 1 GHz	1GHz ~ 18GHz	5.0 dB
	18GHz ~ 40GHz	5.3 dB

2.2 Test Site and Instruments

For radiated spurious emissions test:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Test Receiver Keysight	N9038A	MY54450088	July 06, 2020	July 05, 2021
Pre-Amplifier EMCI	EMC001340	980142	May 25, 2020	May 24, 2021
Loop Antenna Electro-Metrics	EM-6879	264	Feb. 18, 2020	Feb. 17, 2021
RF Cable	5D-FB	LOOPCAB-001	Jan. 07, 2021	Jan. 06, 2022
RF Cable	5D-FB	LOOPCAB-002	Jan. 07, 2021	Jan. 06, 2022
Pre-Amplifier Mini-Circuits	ZFL-1000VH2	QA0838008	Oct. 20, 2020	Oct. 19, 2021
Trilog Broadband Antenna SCHWARZBECK	VULB 9168	9168-361	Nov. 05, 2020	Nov. 04, 2021
RF Cable	8D	966-3-1	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-2	Mar. 17, 2020	Mar. 16, 2021
RF Cable	8D	966-3-3	Mar. 17, 2020	Mar. 16, 2021
Fixed attenuator Mini-Circuits	UNAT-5+	PAD-3m-3-01	Sep. 24, 2020	Sep. 23, 2021
Horn_Antenna SCHWARZBECK	BBHA9120-D	9120D-406	Nov. 22, 2020	Nov. 21, 2021
Pre-Amplifier EMCI	EMC12630SE	980384	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC104-SM-SM-1500	180504	Apr. 29, 2020	Apr. 28, 2021
RF Cable	EMC104-SM-SM-2000	180601	June 09, 2020	June 08, 2021
RF Cable	EMC104-SM-SM-6000	180602	June 09, 2020	June 08, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Pre-Amplifier EMCI	EMC184045SE	980387	Jan. 11, 2021	Jan. 10, 2022
Horn_Antenna SCHWARZBECK	BBHA 9170	BBHA9170519	Nov. 22, 2020	Nov. 21, 2021
RF Cable	EMC102-KM-KM-1200	160924	Jan. 11, 2021	Jan. 10, 2022
RF Cable	EMC-KM-KM-4000	200214	Mar. 11, 2020	Mar. 10, 2021
Software	ADT_Radiated_V8.7.08	NA	NA	NA
Antenna Tower & Turn Table Max-Full	MF-7802	MF780208406	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA

Note:

1. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
2. The test was performed in 966 Chamber No. 3.
3. Tested Date: Feb. 04, 2021

For other test items:

DESCRIPTION & MANUFACTURER	MODEL NO.	SERIAL NO.	CALIBRATED DATE	CALIBRATED UNTIL
Spectrum Analyzer R&S	FSV40	100964	May 29, 2020	May 28, 2021
Spectrum Analyzer Keysight	N9030A	MY54490679	July 13, 2020	July 12, 2021
Power meter Anritsu	ML2495A	1529002	July 22, 2020	July 21, 2021
Power sensor Anritsu	MA2411B	1339443	July 22, 2020	July 21, 2021
Fixed Attenuator Mini-Circuits	MDCS18N-10	MDCS18N-10-01	Apr. 14, 2020	Apr. 13, 2021
AC Power Source Extech Electronics	6905S	1991551	NA	NA
DC Power Supply Topward	6603D	795558	NA	NA
Temperature & Humidity Chamber Giant Force	GTH-150-40-SP-AR	MAA0812-008	Jan. 14, 2021	Jan. 13, 2022
True RMS Clamp Meter FLUKE	325	31130711WS	June 06, 2020	June 05, 2021
Mech Switch Absorptive Mini-Circuits	MSP4TA-18+	0140	Feb. 10, 2020	Feb. 09, 2021
FXD ATTEN Mini-Circuits	BW-S3W2+	MN71981	Feb. 10, 2020	Feb. 09, 2021
Software	ADT_RF Test Software V6.6.5.4	NA	NA	NA

- Note:**
1. The test was performed in Oven room 2.
 2. The calibration interval of the above test instruments is 12 months and the calibrations are traceable to NML/ROC and NIST/USA.
 3. Tested Date: Feb. 05, 2021

3 General Information

3.1 General Description of EUT

Product	LTE Module	
Brand	Vivint, Inc.	
Test Model	EG91-NAX	
Status of EUT	Engineering sample	
Power Supply Rating	DC 3.8V from host equipment	
Modulation Type	WCDMA, HSDPA, HSUPA	BPSK
	LTE Band 5	QPSK, 16QAM
Operating Frequency	WCDMA, HSDPA, HSUPA	826.4 MHz ~ 846.6 MHz
	LTE Band 5	824.7 MHz ~ 848.3 MHz
Max. ERP Power	WCDMA B5	21.10 dBm
	LTE Band 5 (Channel Bandwidth 1.4MHz)	22.13 dBm
	LTE Band 5 (Channel Bandwidth 3MHz)	22.30 dBm
	LTE Band 5 (Channel Bandwidth 5MHz)	22.21 dBm
	LTE Band 5 (Channel Bandwidth 10MHz)	22.18 dBm
Antenna Type	Refer to Note	
Antenna Connector	Refer to Note	
Accessory Device	NA	
Data Cable Supplied	NA	

Note:

1. This report is prepared for FCC class II change. The difference compared with the original application as the following:

- ◆ Antenna change and remove B25, B26.
- ◆ Adding new host, the testing has been tested with the final host device enclosure (cannot be disassembled). The host device is as following table:

Product Name	Brand	Model
Smart Hub Lite	VIVINT	CP05

2. According to above conditions, therefore only Radiated Emissions Measurement need to be performed, and all data was verified to meet the requirements.

3. There are WLAN and WWAN technology used for the EUT. The EUT has two radios as following table:

Radio 1	Radio 2	Radio 3
WLAN (2.4GHz+5GHz)	Bluetooth	WWAN (WCDMA/LTE)

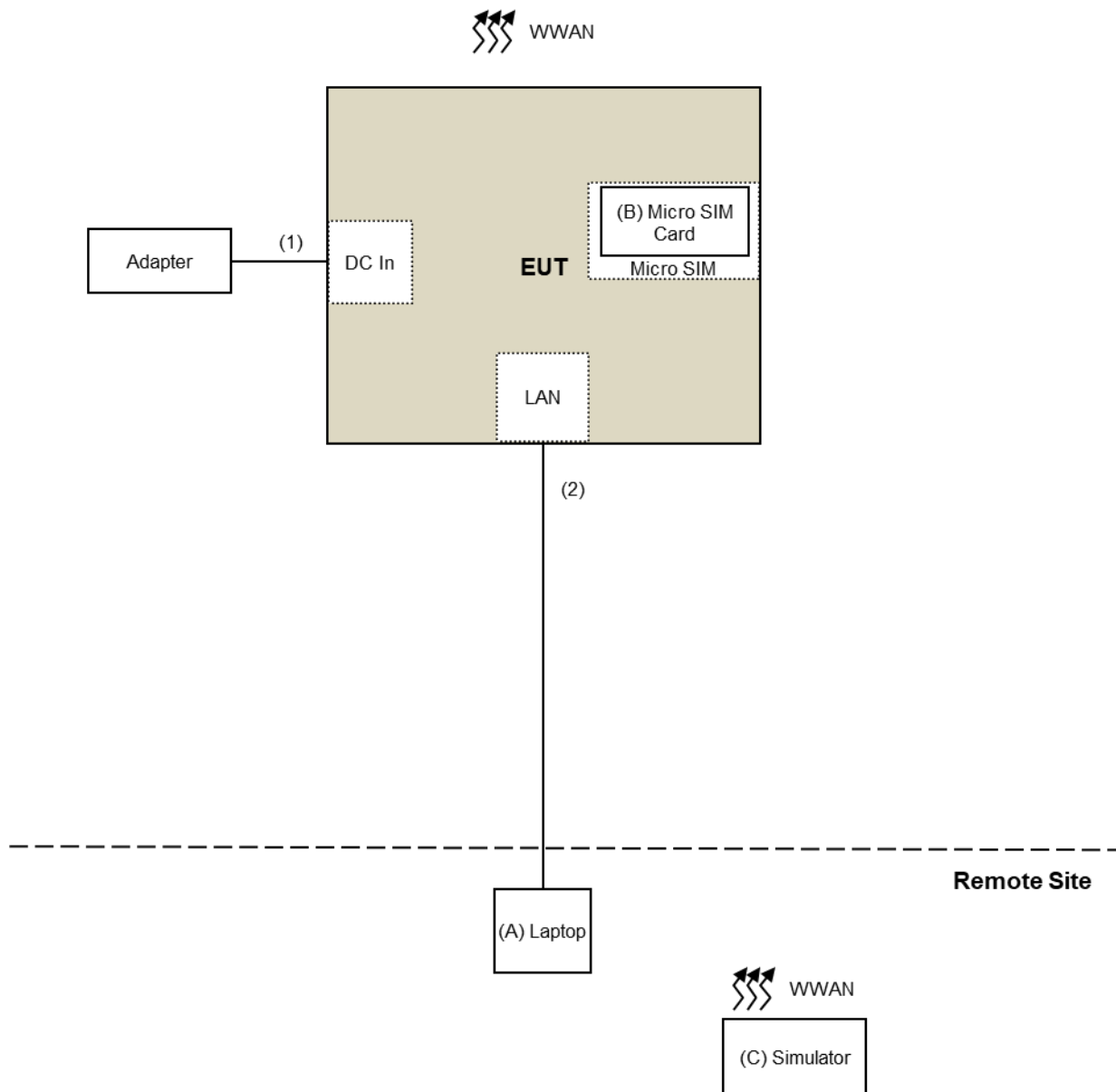
4. The antennas provided to the EUT, please refer to the following table:

For WWAN						
Antenna No.	Band	Model	Freq. Range	Antenna Net Gain (dBi)	Antenna Type	Connector Type
1	WNC	48XKAB13	Band 2 (1850-1910 MHz)	1.38	PIFA	none (like spring)
			Band 4 (1710-1755 MHz)	1.57		
			Band 5 (824-849 MHz)	0.26		
			Band 12 (699-716 MHz)	0.14		
			Band 13 (777-787 MHz)	0.57		

5. The above EUT information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.

6. The above Antenna information is declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications, the laboratory shall not be held responsible.

3.2 Configuration of System under Test



3.2.1 Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the t

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A.	Laptop	DELL	E5430	HYV4VY1	FCC DoC	Provided by Lab
B.	Micro SIM Card	R&S	CRT-Z3	NA	NA	Provided by Lab
C.	Simulator	R&S	CMU200	121040	NA	Provided by Lab

ID	Descriptions	Qty.	Length (m)	Shielding (Yes/No)	Cores (Qty.)	Remarks
1.	DC Cable	1	1.5	No	0	Supplied by client
2.	RJ-45 Cable	1	10	No	0	Provided by Lab

3.3 Test Mode Applicability and Tested Channel Detail

WCDMA B5

Test Item	Available Channel	Tested Channel	Mode
ERP	4132 to 4233	4132, 4182, 4233	WCDMA
Radiated Emission Below 1GHz	4132 to 4233	4132, 4182, 4233	WCDMA
Radiated Emission Above 1GHz	4132 to 4233	4132, 4182, 4233	WCDMA

LTE Band 5

TEST ITEM	AVAILABLE CHANNEL	TESTED CHANNEL	CHANNEL BANDWIDTH	MODULATION	MODE
ERP	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK/16QAM	1RB / 0 RB offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK/16QAM	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK/16QAM	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK/16QAM	1RB / 0 RB offset
Radiated Emission	20407 to 20643	20407, 20525, 20643	1.4MHz	QPSK	1RB / 0 RB offset
	20415 to 20635	20415, 20525, 20635	3MHz	QPSK	1RB / 0 RB offset
	20425 to 20625	20425, 20525, 20625	5MHz	QPSK	1RB / 0 RB offset
	20450 to 20600	20450, 20525, 20600	10MHz	QPSK	1RB / 0 RB offset

Note:

All supported modulation types were evaluated. The Worst case of QPSK was selected. Therefore, the Band Edge, Frequency Stability, Condcudeted Emission and Radiated Emission were presented under QPSK mode only.

Test Condition:

Test Item	Environmental Conditions	Input Power (System)	Tested By
ERP	25deg. C, 60%RH	120Vac, 60Hz	Weiwei Lo
Radiated Emission Below 1GHz	25deg. C, 75%RH	120Vac, 60Hz	Ryan Du
Radiated Emission Above 1GHz	25deg. C, 75%RH	120Vac, 60Hz	Ryan Du

3.4 EUT Operating Conditions

The communication simulator station system controlled a EUT to export maximum output power under transmission mode and specific channel frequency

3.5 General Description of Applied Standards and references

The EUT is a RF Product. According to the specifications of the manufacturer, it must comply with the requirements of the following standards and references:

Test standard:

FCC 47 CFR Part 2

FCC 47 CFR Part 22, Subpart H

ANSI/TIA/EIA-603-E 2016

ANSI 63.26-2015

All test items have been performed and recorded as per the above standards.

References Test Guidance:

KDB 971168 D01 Power Meas License Digital Systems v03r01

All test items have been performed as a reference to the above KDB test guidance.

4 Test Types and Results

4.1 Output Power Measurement

4.1.1 Limits of Output Power Measurement

Mobile / Portable station are limited to 7 watts e.r.p.

4.1.2 Test Procedures

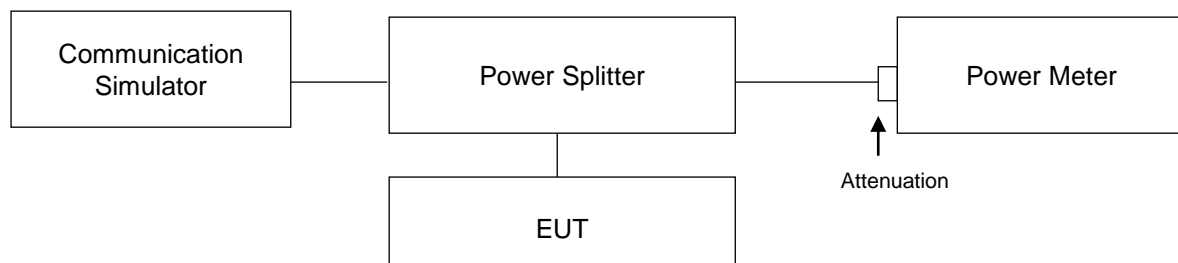
Conducted Power Measurement:

The EUT was set up for the maximum power with WCDMA / LTE link data modulation and link up with simulator. Set the EUT to transmit under low, middle and high channel and difference RB size/ RB offset for difference bandwidth record the power level shown on power meter.

EIRP / ERP Measurement:

- EIRP = Conducted Output power level + Antenna gain.
- ERP power can be calculated form EIRP power by subtracting the gain of dipole, ERP power = EIRP power - 2.15dBi.
- ERP = Conducted Output power level + Antenna gain (dBi) - Isotropically Factor (2.15dB).

4.1.3 Test Setup



4.1.4 Test Results

CONDUCTED OUTPUT POWER (dBm)
WCDMA B5

Band	WCDMA B5		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC	22.66	22.58	22.99
HSDPA Subtest-1	22.40	22.33	22.46
HSDPA Subtest-2	22.74	22.38	22.36
HSDPA Subtest-3	22.35	22.30	22.04
HSDPA Subtest-4	22.28	22.02	21.98
HSUPA Subtest-1	22.75	22.55	22.74
HSUPA Subtest-2	22.08	22.16	22.23
HSUPA Subtest-3	22.41	22.64	22.25
HSUPA Subtest-4	22.32	22.41	22.73
HSUPA Subtest-5	22.68	22.35	22.50

LTE Band 5

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20407	20525	20643		20407	20525	20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	23.49	23.76	23.84	0	23.00	22.33	22.68	1
	1	2	23.93	23.97	24.02	0	23.31	22.60	22.66	1
	1	5	23.50	23.55	23.65	0	22.83	22.65	22.58	1
	3	0	23.47	23.73	23.71	0	-	-	-	1
	3	1	23.38	23.42	23.62	0	-	-	-	1
	3	3	23.70	23.58	23.67	0	-	-	-	1
	6	0	22.74	22.64	22.51	1	-	-	-	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20415	20525	20635		20415	20525	20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	23.95	24.06	23.83	0	22.73	23.28	23.55	1
	1	7	24.19	24.10	24.01	0	23.04	23.61	24.09	1
	1	14	23.79	23.77	23.96	0	22.82	23.21	23.53	1
	8	0	23.13	23.07	22.92	1	-	-	-	2
	8	3	22.92	23.01	22.96	1	-	-	-	2
	8	7	22.97	23.01	23.05	1	-	-	-	2
	15	0	23.09	23.07	23.04	1	-	-	-	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20425	20525	20625		20425	20525	20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	23.46	23.84	23.77	0	22.55	23.03	23.12	1
	1	12	24.10	23.86	23.84	0	22.58	23.46	23.93	1
	1	24	23.57	23.50	23.44	0	22.42	22.71	23.36	1
	12	0	22.90	22.72	22.68	1	-	-	-	2
	12	6	22.64	22.61	22.80	1	-	-	-	2
	12	13	22.55	22.78	22.95	1	-	-	-	2
	25	0	22.58	22.92	22.53	1	-	-	-	2

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20450	20525	20600		20450	20525	20600	
			829 MHz	836.5 MHz	844 MHz		829 MHz	836.5 MHz	844 MHz	
5 / 10M	1	0	23.91	23.81	23.42	0	22.22	23.20	23.07	1
	1	24	24.07	23.99	23.58	0	22.93	23.46	23.66	1
	1	49	23.50	23.24	23.67	0	22.40	22.94	22.99	1
	25	0	22.75	22.85	22.69	1	-	-	-	2
	25	12	22.38	22.62	22.46	1	-	-	-	2
	25	25	22.41	22.71	22.66	1	-	-	-	2
	50	0	22.73	22.66	22.72	1	-	-	-	2

ERP POWER
WCDMA B5

Band	WCDMA B5		
Channel	4132	4182	4233
Frequency (MHz)	826.4	836.4	846.6
RMC 12.2K	22.96	22.68	22.99
Gain (dBi)	0.26	0.26	0.26
Isotropically Factor (dB)	2.15	2.15	2.15
Max. ERP Power (dBm)	21.07	20.79	21.10

LTE Band 5

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20407	20525	20643		20407	20525	20643	
			824.7 MHz	836.5 MHz	848.3 MHz		824.7 MHz	836.5 MHz	848.3 MHz	
5 / 1.4M	1	0	23.93	23.97	24.02	0	23.31	22.65	22.68	1
Gain (dBi)		0.26	0.26	0.26	0.26		0.26			
Isotropically Factor (dB)		2.15	2.15	2.15	2.15		2.15			
Max. ERP Power (dBm)		22.04	22.08	22.13	21.42		20.76	20.79		

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20415	20525	20635		20415	20525	20635	
			825.5 MHz	836.5 MHz	847.5 MHz		825.5 MHz	836.5 MHz	847.5 MHz	
5 / 3M	1	0	24.19	24.10	24.01	0	23.04	23.61	24.09	1
Gain (dBi)		0.26	0.26	0.26	0.26		0.26			
Isotropically Factor (dB)		2.15	2.15	2.15	2.15		2.15			
Max. ERP Power (dBm)		22.30	22.21	22.12	21.15		21.72	22.20		

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20425	20525	20625		20425	20525	20625	
			826.5 MHz	836.5 MHz	846.5 MHz		826.5 MHz	836.5 MHz	846.5 MHz	
5 / 5M	1	0	24.10	23.86	23.84	0	22.58	23.46	23.93	1
Gain (dBi)		0.26	0.26	0.26	0.26		0.26			
Isotropically Factor (dB)		2.15	2.15	2.15	2.15		2.15			
Max. ERP Power (dBm)		22.21	21.97	21.95	20.69		21.57	22.04		

Band / BW	RB Size	RB Offset	QPSK			3GPP MPR (dB)	16QAM			3GPP MPR (dB)
			Low CH	Mid CH	High CH		Low CH	Mid CH	High CH	
			20450	20525	20600		20450	20525	20600	
			829	836.5	844		829	836.5	844	
			MHz	MHz	MHz		MHz	MHz	MHz	
5 / 10M	1	0	24.07	23.99	23.67	0	22.93	23.46	23.66	1
Gain (dBi)			0.26	0.26	0.26		0.26	0.26	0.26	
Isotropically Factor (dB)			2.15	2.15	2.15		2.15	2.15	2.15	
Max. ERP Power (dBm)			22.18	22.10	21.78		21.04	21.57	21.77	

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB. The emission limit equal to -13dBm .

4.2.2 Test Procedure

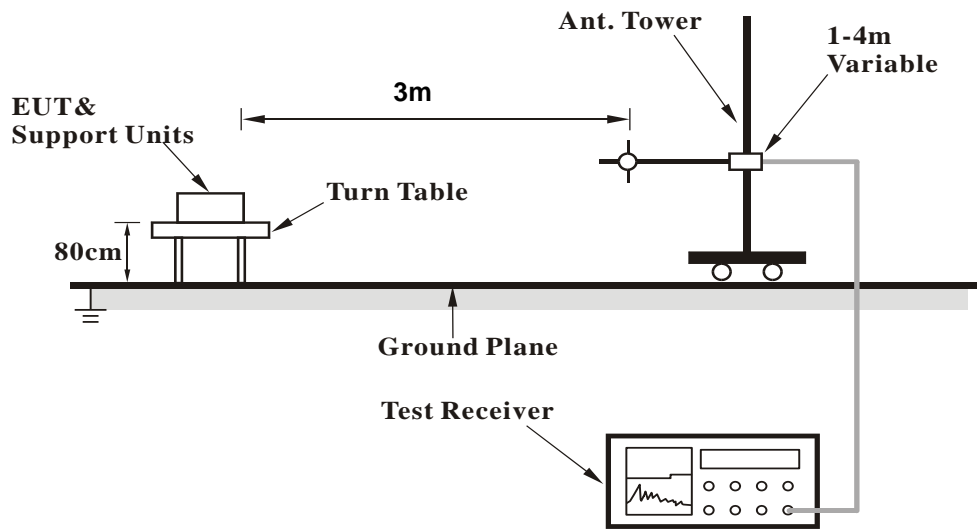
- a. The field strength was measured with Spectrum Analyzer.
- b. Measurement in the semi-anechoic chamber, EUT placed on the 0.8m/1.5m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the field strength value via a spectrum reading obtained corrected for antenna factor, cable loss and pre-amplifier factor.
- c. Perform a field strength measurement and then mathematically convert the measured field strength level to EIRP level.
- d. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = Read Value (dB μ V/m) - Correction Factor @ 3m
- e. Correction Factor (dB) @ 3m = $20\log(D) - 104.8$; where D is the measurement distance @3m = -95.26dB

NOTE: The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1MHz/3MHz.

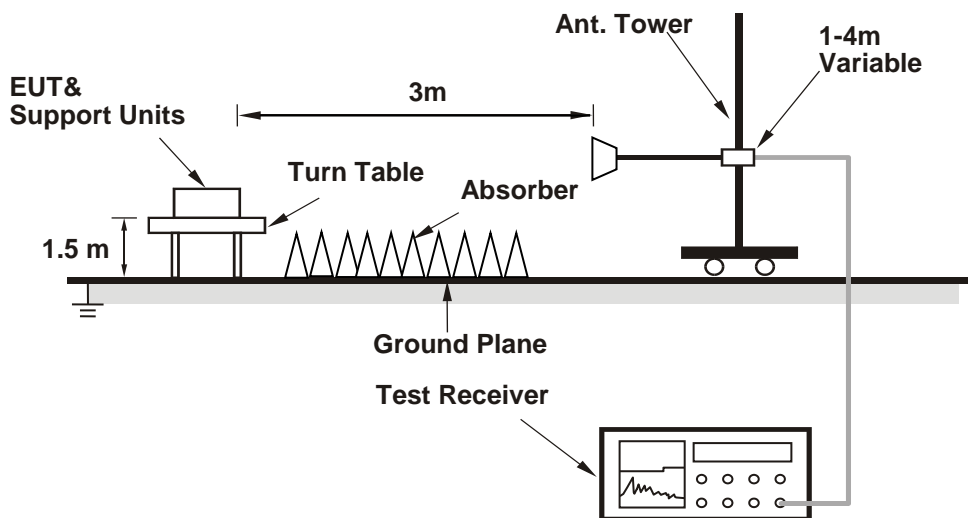
4.2.3 Deviation from Test Standard

No deviation.

**4.2.4 Test Setup
For Below 1GHz**



For Above 1GHz:



For the actual test configuration, please refer to the attached file (Test Setup Photo).

4.2.5 Test Results

Below 1GHz

WCDMA B5:

Mode	TX channel 4132	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.72	28.6	-95.26	-66.66	-13	-53.66
2	109.03	22.34	-95.26	-72.92	-13	-59.92
3	150.04	23.72	-95.26	-71.54	-13	-58.54
4	196.65	27.55	-95.26	-67.71	-13	-54.71
5	309.31	23	-95.26	-72.26	-13	-59.26
6	486.26	27.43	-95.26	-67.83	-13	-54.83

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.83	32.32	-95.26	-62.94	-13	-49.94
2	48.32	29.69	-95.26	-65.57	-13	-52.57
3	106.34	24.63	-95.26	-70.63	-13	-57.63
4	159.43	25.92	-95.26	-69.34	-13	-56.34
5	197.05	22.78	-95.26	-72.48	-13	-59.48
6	380.39	26.14	-95.26	-69.12	-13	-56.12

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m

Mode	TX channel 4182	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.86	29.13	-95.26	-66.13	-13	-53.13
2	109	23.8	-95.26	-71.46	-13	-58.46
3	150.27	23.57	-95.26	-71.69	-13	-58.69
4	196.44	26.76	-95.26	-68.50	-13	-55.50
5	309.52	23.89	-95.26	-71.37	-13	-58.37
6	486.73	28.18	-95.26	-67.08	-13	-54.08

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	31.07	31.71	-95.26	-63.55	-13	-50.55
2	47.94	29.59	-95.26	-65.67	-13	-52.67
3	106.18	24.22	-95.26	-71.04	-13	-58.04
4	159.48	25.51	-95.26	-69.75	-13	-56.75
5	196.96	21.95	-95.26	-73.31	-13	-60.31
6	380.34	26.12	-95.26	-69.14	-13	-56.14

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 4233	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.84	28.63	-95.26	-66.63	-13	-53.63
2	108.54	22.55	-95.26	-72.71	-13	-59.71
3	150.51	23.1	-95.26	-72.16	-13	-59.16
4	196.24	26.18	-95.26	-69.08	-13	-56.08
5	309.73	23.45	-95.26	-71.81	-13	-58.81
6	486.62	28.04	-95.26	-67.22	-13	-54.22

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.93	31.2	-95.26	-64.06	-13	-51.06
2	47.83	29.78	-95.26	-65.48	-13	-52.48
3	106.49	24.53	-95.26	-70.73	-13	-57.73
4	159.53	25.15	-95.26	-70.11	-13	-57.11
5	197.55	22.14	-95.26	-73.12	-13	-60.12
6	380.37	26.24	-95.26	-69.02	-13	-56.02

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 1.4MHz

Mode	TX channel 20407	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.72	28.93	-95.26	-66.33	-13	-53.33
2	108.59	22.46	-95.26	-72.80	-13	-59.80
3	148.75	23.17	-95.26	-72.09	-13	-59.09
4	197.37	26.3	-95.26	-68.96	-13	-55.96
5	310.23	23.44	-95.26	-71.82	-13	-58.82
6	485.47	27.9	-95.26	-67.36	-13	-54.36

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.64	32.52	-95.26	-62.74	-13	-49.74
2	48.07	29.31	-95.26	-65.95	-13	-52.95
3	105.39	25.01	-95.26	-70.25	-13	-57.25
4	159.51	25.1	-95.26	-70.16	-13	-57.16
5	197.8	22.74	-95.26	-72.52	-13	-59.52
6	379.45	25.24	-95.26	-70.02	-13	-57.02

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.79	28.62	-95.26	-66.64	-13	-53.64
2	108.91	24.36	-95.26	-70.90	-13	-57.90
3	149.04	23.55	-95.26	-71.71	-13	-58.71
4	197.83	26.9	-95.26	-68.36	-13	-55.36
5	310.51	23.35	-95.26	-71.91	-13	-58.91
6	485.19	27.23	-95.26	-68.03	-13	-55.03

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.71	33.05	-95.26	-62.21	-13	-49.21
2	47.8	29.74	-95.26	-65.52	-13	-52.52
3	105.43	23.98	-95.26	-71.28	-13	-58.28
4	159.07	25.54	-95.26	-69.72	-13	-56.72
5	197.33	22.86	-95.26	-72.40	-13	-59.40
6	379.86	25.78	-95.26	-69.48	-13	-56.48

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20643	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.81	29.06	-95.26	-66.20	-13	-53.20
2	108.92	23.79	-95.26	-71.47	-13	-58.47
3	148.89	22.51	-95.26	-72.75	-13	-59.75
4	197.35	26.36	-95.26	-68.90	-13	-55.90
5	310.4	23.22	-95.26	-72.04	-13	-59.04
6	485.11	28.29	-95.26	-66.97	-13	-53.97

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.64	31.51	-95.26	-63.75	-13	-50.75
2	47.9	29.16	-95.26	-66.10	-13	-53.10
3	105.61	24.68	-95.26	-70.58	-13	-57.58
4	159.97	24.98	-95.26	-70.28	-13	-57.28
5	197.76	22.77	-95.26	-72.49	-13	-59.49
6	379.93	24.99	-95.26	-70.27	-13	-57.27

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 3MHz

Mode	TX channel 20415	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.93	28.56	-95.26	-66.70	-13	-53.70
2	109.03	22.79	-95.26	-72.47	-13	-59.47
3	148.79	22.8	-95.26	-72.46	-13	-59.46
4	197.72	26.32	-95.26	-68.94	-13	-55.94
5	309.89	23.13	-95.26	-72.13	-13	-59.13
6	485.91	27.94	-95.26	-67.32	-13	-54.32

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.85	32.23	-95.26	-63.03	-13	-50.03
2	48	29.7	-95.26	-65.56	-13	-52.56
3	105.65	24.67	-95.26	-70.59	-13	-57.59
4	160	25.48	-95.26	-69.78	-13	-56.78
5	197.8	22.24	-95.26	-73.02	-13	-60.02
6	379.33	25.55	-95.26	-69.71	-13	-56.71

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.78	28.31	-95.26	-66.95	-13	-53.95
2	108.9	24.63	-95.26	-70.63	-13	-57.63
3	149.1	23.42	-95.26	-71.84	-13	-58.84
4	197.76	27.09	-95.26	-68.17	-13	-55.17
5	310.39	22.89	-95.26	-72.37	-13	-59.37
6	485.09	27.66	-95.26	-67.60	-13	-54.60

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.76	33.25	-95.26	-62.01	-13	-49.01
2	47.83	29.9	-95.26	-65.36	-13	-52.36
3	105.64	24.38	-95.26	-70.88	-13	-57.88
4	159.8	25.29	-95.26	-69.97	-13	-56.97
5	198.24	23.17	-95.26	-72.09	-13	-59.09
6	379.28	26.21	-95.26	-69.05	-13	-56.05

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20635	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.73	29.36	-95.26	-65.90	-13	-52.90
2	108.49	23.74	-95.26	-71.52	-13	-58.52
3	148.98	22.05	-95.26	-73.21	-13	-60.21
4	197.3	26.76	-95.26	-68.50	-13	-55.50
5	310.67	23.18	-95.26	-72.08	-13	-59.08
6	485.94	28.63	-95.26	-66.63	-13	-53.63

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.67	31.51	-95.26	-63.75	-13	-50.75
2	47.6	29.59	-95.26	-65.67	-13	-52.67
3	105.01	24.63	-95.26	-70.63	-13	-57.63
4	159.22	24.95	-95.26	-70.31	-13	-57.31
5	197.77	22.95	-95.26	-72.31	-13	-59.31
6	379.05	25.01	-95.26	-70.25	-13	-57.25

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 5MHz

Mode	TX channel 20425	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.76	28.79	-95.26	-66.47	-13	-53.47
2	109.08	22.91	-95.26	-72.35	-13	-59.35
3	148.44	22.7	-95.26	-72.56	-13	-59.56
4	197.64	26.46	-95.26	-68.80	-13	-55.80
5	310.32	23.24	-95.26	-72.02	-13	-59.02
6	485.7	28.31	-95.26	-66.95	-13	-53.95

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.85	32.17	-95.26	-63.09	-13	-50.09
2	47.81	29.33	-95.26	-65.93	-13	-52.93
3	104.95	24.67	-95.26	-70.59	-13	-57.59
4	159.58	25.52	-95.26	-69.74	-13	-56.74
5	197.39	23.12	-95.26	-72.14	-13	-59.14
6	379.83	25.37	-95.26	-69.89	-13	-56.89

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.8	28.88	-95.26	-66.38	-13	-53.38
2	108.24	24.16	-95.26	-71.10	-13	-58.10
3	149.09	23.44	-95.26	-71.82	-13	-58.82
4	196.95	26.52	-95.26	-68.74	-13	-55.74
5	310	23.49	-95.26	-71.77	-13	-58.77
6	485.81	26.76	-95.26	-68.50	-13	-55.50

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.82	32.71	-95.26	-62.55	-13	-49.55
2	48.01	29.37	-95.26	-65.89	-13	-52.89
3	105.02	23.82	-95.26	-71.44	-13	-58.44
4	159.46	25.25	-95.26	-70.01	-13	-57.01
5	197.68	22.39	-95.26	-72.87	-13	-59.87
6	379.69	25.6	-95.26	-69.66	-13	-56.66

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20625	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.92	29.44	-95.26	-65.82	-13	-52.82
2	108.65	23.99	-95.26	-71.27	-13	-58.27
3	148.64	22.72	-95.26	-72.54	-13	-59.54
4	197.48	26.26	-95.26	-69.00	-13	-56.00
5	309.94	22.87	-95.26	-72.39	-13	-59.39
6	485.17	27.87	-95.26	-67.39	-13	-54.39

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.68	31.93	-95.26	-63.33	-13	-50.33
2	47.61	28.86	-95.26	-66.40	-13	-53.40
3	104.9	24.6	-95.26	-70.66	-13	-57.66
4	159.3	25.18	-95.26	-70.08	-13	-57.08
5	197.37	22.74	-95.26	-72.52	-13	-59.52
6	378.96	24.61	-95.26	-70.65	-13	-57.65

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 10MHz

Mode	TX channel 20450	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.88	28.52	-95.26	-66.74	-13	-53.74
2	108.44	22.57	-95.26	-72.69	-13	-59.69
3	148.78	23.39	-95.26	-71.87	-13	-58.87
4	196.99	26.79	-95.26	-68.47	-13	-55.47
5	310.31	23.51	-95.26	-71.75	-13	-58.75
6	485.14	28.24	-95.26	-67.02	-13	-54.02

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.65	32.56	-95.26	-62.70	-13	-49.70
2	47.77	29.01	-95.26	-66.25	-13	-53.25
3	105.77	25.46	-95.26	-69.80	-13	-56.80
4	159.35	25.23	-95.26	-70.03	-13	-57.03
5	198.02	22.91	-95.26	-72.35	-13	-59.35
6	379.9	25.35	-95.26	-69.91	-13	-56.91

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.83	28.5	-95.26	-66.76	-13	-53.76
2	108.99	24.17	-95.26	-71.09	-13	-58.09
3	148.27	23.74	-95.26	-71.52	-13	-58.52
4	197.18	26.79	-95.26	-68.47	-13	-55.47
5	310.23	23.51	-95.26	-71.75	-13	-58.75
6	485.93	26.94	-95.26	-68.32	-13	-55.32

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.69	33.01	-95.26	-62.25	-13	-49.25
2	47.92	30.2	-95.26	-65.06	-13	-52.06
3	105.72	24.13	-95.26	-71.13	-13	-58.13
4	159.24	25.94	-95.26	-69.32	-13	-56.32
5	197.81	22.36	-95.26	-72.90	-13	-59.90
6	379.32	25.95	-95.26	-69.31	-13	-56.31

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20600	Frequency Range	Below 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.82	29.14	-95.26	-66.12	-13	-53.12
2	108.54	24.14	-95.26	-71.12	-13	-58.12
3	148.99	22.52	-95.26	-72.74	-13	-59.74
4	197.16	26.2	-95.26	-69.06	-13	-56.06
5	310.2	23.63	-95.26	-71.63	-13	-58.63
6	485.64	28.67	-95.26	-66.59	-13	-53.59

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	30.88	31.97	-95.26	-63.29	-13	-50.29
2	47.97	29.42	-95.26	-65.84	-13	-52.84
3	105.43	24.57	-95.26	-70.69	-13	-57.69
4	159.83	25.29	-95.26	-69.97	-13	-56.97
5	197.6	23.15	-95.26	-72.11	-13	-59.11
6	379.31	24.92	-95.26	-70.34	-13	-57.34

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Above 1GHz
WCDMA B5:

Mode	TX channel 4132	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	31.59	-95.26	-63.67	-13	-50.67
2	2066	32.94	-95.26	-62.32	-13	-49.32
3	2479.2	32.71	-95.26	-62.55	-13	-49.55
4	2892.4	32.57	-95.26	-62.69	-13	-49.69
5	3305.6	32.48	-95.26	-62.78	-13	-49.78
6	3718.8	32.84	-95.26	-62.42	-13	-49.42

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1652.8	31.76	-95.26	-63.50	-13	-50.50
2	2066	32.32	-95.26	-62.94	-13	-49.94
3	2479.2	32.77	-95.26	-62.49	-13	-49.49
4	2892.4	32.36	-95.26	-62.90	-13	-49.90
5	3305.6	32.69	-95.26	-62.57	-13	-49.57
6	3718.8	32.77	-95.26	-62.49	-13	-49.49

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 4182	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	31.92	-95.26	-63.34	-13	-50.34
2	2091	32.58	-95.26	-62.68	-13	-49.68
3	2509.2	32.34	-95.26	-62.92	-13	-49.92
4	2927.4	32.41	-95.26	-62.85	-13	-49.85
5	3345.6	33.01	-95.26	-62.25	-13	-49.25
6	3763.8	33.5	-95.26	-61.76	-13	-48.76

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1672.8	31.25	-95.26	-64.01	-13	-51.01
2	2091	31.89	-95.26	-63.37	-13	-50.37
3	2509.2	32.58	-95.26	-62.68	-13	-49.68
4	2927.4	32.64	-95.26	-62.62	-13	-49.62
5	3345.6	32.8	-95.26	-62.46	-13	-49.46
6	3763.8	33.91	-95.26	-61.35	-13	-48.35

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 4233	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693.2	31.85	-95.26	-63.41	-13	-50.41
2	2116.5	32.22	-95.26	-63.04	-13	-50.04
3	2539.8	31.99	-95.26	-63.27	-13	-50.27
4	2963.1	32.33	-95.26	-62.93	-13	-49.93
5	3386.4	32.73	-95.26	-62.53	-13	-49.53
6	3809.7	33.13	-95.26	-62.13	-13	-49.13

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693.2	31.5	-95.26	-63.76	-13	-50.76
2	2116.5	32.51	-95.26	-62.75	-13	-49.75
3	2539.8	32.86	-95.26	-62.40	-13	-49.40
4	2963.1	32.25	-95.26	-63.01	-13	-50.01
5	3386.4	32.98	-95.26	-62.28	-13	-49.28
6	3809.7	33.75	-95.26	-61.51	-13	-48.51

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 1.4MHz

Mode	TX channel 20407	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	31.57	-95.26	-63.69	-13	-50.69
2	2061.75	32.26	-95.26	-63.00	-13	-50.00
3	2474.1	32.07	-95.26	-63.19	-13	-50.19
4	2886.45	32.34	-95.26	-62.92	-13	-49.92
5	3298.8	32.7	-95.26	-62.56	-13	-49.56
6	3711.15	33.31	-95.26	-61.95	-13	-48.95

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1649.4	31.57	-95.26	-63.69	-13	-50.69
2	2061.75	32.64	-95.26	-62.62	-13	-49.62
3	2474.1	32.77	-95.26	-62.49	-13	-49.49
4	2886.45	32.17	-95.26	-63.09	-13	-50.09
5	3298.8	32.54	-95.26	-62.72	-13	-49.72
6	3711.15	32.86	-95.26	-62.40	-13	-49.40

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.93	-95.26	-63.33	-13	-50.33
2	2091.25	32.73	-95.26	-62.53	-13	-49.53
3	2509.5	32.26	-95.26	-63.00	-13	-50.00
4	2927.75	32.55	-95.26	-62.71	-13	-49.71
5	3346	32.99	-95.26	-62.27	-13	-49.27
6	3764.25	33.58	-95.26	-61.68	-13	-48.68

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.59	-95.26	-63.67	-13	-50.67
2	2091.25	31.98	-95.26	-63.28	-13	-50.28
3	2509.5	32.49	-95.26	-62.77	-13	-49.77
4	2927.75	32.81	-95.26	-62.45	-13	-49.45
5	3346	32.53	-95.26	-62.73	-13	-49.73
6	3764.25	33.67	-95.26	-61.59	-13	-48.59

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20643	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	32.06	-95.26	-63.20	-13	-50.20
2	2120.75	32.42	-95.26	-62.84	-13	-49.84
3	2544.9	32.07	-95.26	-63.19	-13	-50.19
4	2969.05	32.37	-95.26	-62.89	-13	-49.89
5	3393.2	32.74	-95.26	-62.52	-13	-49.52
6	3817.35	33.24	-95.26	-62.02	-13	-49.02

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1696.6	31.59	-95.26	-63.67	-13	-50.67
2	2120.75	32.23	-95.26	-63.03	-13	-50.03
3	2544.9	32.79	-95.26	-62.47	-13	-49.47
4	2969.05	32.45	-95.26	-62.81	-13	-49.81
5	3393.2	33.12	-95.26	-62.14	-13	-49.14
6	3817.35	33.5	-95.26	-61.76	-13	-48.76

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 3MHz

Mode	TX channel 20415	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1651	31.77	-95.26	-63.49	-13	-50.49
2	2063.75	32.04	-95.26	-63.22	-13	-50.22
3	2476.5	31.85	-95.26	-63.41	-13	-50.41
4	2889.25	31.85	-95.26	-63.41	-13	-50.41
5	3302	32.69	-95.26	-62.57	-13	-49.57
6	3714.75	33.6	-95.26	-61.66	-13	-48.66

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1651	31.75	-95.26	-63.51	-13	-50.51
2	2063.75	32.76	-95.26	-62.50	-13	-49.50
3	2476.5	32.85	-95.26	-62.41	-13	-49.41
4	2889.25	32.3	-95.26	-62.96	-13	-49.96
5	3302	32.66	-95.26	-62.60	-13	-49.60
6	3714.75	32.94	-95.26	-62.32	-13	-49.32

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	32	-95.26	-63.26	-13	-50.26
2	2091.25	32.97	-95.26	-62.29	-13	-49.29
3	2509.5	32.46	-95.26	-62.80	-13	-49.80
4	2927.75	32.7	-95.26	-62.56	-13	-49.56
5	3346	33.12	-95.26	-62.14	-13	-49.14
6	3764.25	33.69	-95.26	-61.57	-13	-48.57

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.64	-95.26	-63.62	-13	-50.62
2	2091.25	32.08	-95.26	-63.18	-13	-50.18
3	2509.5	32.61	-95.26	-62.65	-13	-49.65
4	2927.75	32.83	-95.26	-62.43	-13	-49.43
5	3346	32.56	-95.26	-62.70	-13	-49.70
6	3764.25	33.76	-95.26	-61.50	-13	-48.50

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20635	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1695	32.09	-95.26	-63.17	-13	-50.17
2	2118.75	32.53	-95.26	-62.73	-13	-49.73
3	2542.5	32.21	-95.26	-63.05	-13	-50.05
4	2966.25	32.52	-95.26	-62.74	-13	-49.74
5	3390	32.95	-95.26	-62.31	-13	-49.31
6	3813.75	33.43	-95.26	-61.83	-13	-48.83

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1695	31.83	-95.26	-63.43	-13	-50.43
2	2118.75	32.38	-95.26	-62.88	-13	-49.88
3	2542.5	32.88	-95.26	-62.38	-13	-49.38
4	2966.25	32.63	-95.26	-62.63	-13	-49.63
5	3390	33.31	-95.26	-61.95	-13	-48.95
6	3813.75	33.7	-95.26	-61.56	-13	-48.56

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 5MHz

Mode	TX channel 20425	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	31.61	-95.26	-63.65	-13	-50.65
2	2066.25	32.59	-95.26	-62.67	-13	-49.67
3	2479.5	32.34	-95.26	-62.92	-13	-49.92
4	2892.75	32.3	-95.26	-62.96	-13	-49.96
5	3306	32.81	-95.26	-62.45	-13	-49.45
6	3719.25	33.58	-95.26	-61.68	-13	-48.68

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1653	31.77	-95.26	-63.49	-13	-50.49
2	2066.25	32.75	-95.26	-62.51	-13	-49.51
3	2479.5	32.82	-95.26	-62.44	-13	-49.44
4	2892.75	32.18	-95.26	-63.08	-13	-50.08
5	3306	32.64	-95.26	-62.62	-13	-49.62
6	3719.25	33.07	-95.26	-62.19	-13	-49.19

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.96	-95.26	-63.30	-13	-50.30
2	2091.25	32.86	-95.26	-62.40	-13	-49.40
3	2509.5	32.33	-95.26	-62.93	-13	-49.93
4	2927.75	32.71	-95.26	-62.55	-13	-49.55
5	3346	33.02	-95.26	-62.24	-13	-49.24
6	3764.25	33.69	-95.26	-61.57	-13	-48.57

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.74	-95.26	-63.52	-13	-50.52
2	2091.25	32.02	-95.26	-63.24	-13	-50.24
3	2509.5	32.5	-95.26	-62.76	-13	-49.76
4	2927.75	32.88	-95.26	-62.38	-13	-49.38
5	3346	32.67	-95.26	-62.59	-13	-49.59
6	3764.25	33.88	-95.26	-61.38	-13	-48.38

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20625	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	32.16	-95.26	-63.10	-13	-50.10
2	2116.25	32.58	-95.26	-62.68	-13	-49.68
3	2539.5	32.24	-95.26	-63.02	-13	-50.02
4	2962.75	32.56	-95.26	-62.70	-13	-49.70
5	3386	32.88	-95.26	-62.38	-13	-49.38
6	3809.25	33.24	-95.26	-62.02	-13	-49.02

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1693	31.74	-95.26	-63.52	-13	-50.52
2	2116.25	32.27	-95.26	-62.99	-13	-49.99
3	2539.5	32.85	-95.26	-62.41	-13	-49.41
4	2962.75	32.53	-95.26	-62.73	-13	-49.73
5	3386	33.29	-95.26	-61.97	-13	-48.97
6	3809.25	33.71	-95.26	-61.55	-13	-48.55

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

LTE Band 5: 10MHz

Mode	TX channel 20450	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	31.71	-95.26	-63.55	-13	-50.55
2	2072.5	32.69	-95.26	-62.57	-13	-49.57
3	2487	31.83	-95.26	-63.43	-13	-50.43
4	2901.5	32.59	-95.26	-62.67	-13	-49.67
5	3316	32.35	-95.26	-62.91	-13	-49.91
6	3730.5	33.71	-95.26	-61.55	-13	-48.55

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1658	31.72	-95.26	-63.54	-13	-50.54
2	2072.5	32.81	-95.26	-62.45	-13	-49.45
3	2487	32.78	-95.26	-62.48	-13	-49.48
4	2901.5	32.26	-95.26	-63.00	-13	-50.00
5	3316	32.68	-95.26	-62.58	-13	-49.58
6	3730.5	33.01	-95.26	-62.25	-13	-49.25

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) – 104.8; where D is the measurement distance @3m.

Mode	TX channel 20525	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	32.07	-95.26	-63.19	-13	-50.19
2	2091.25	32.85	-95.26	-62.41	-13	-49.41
3	2509.5	32.47	-95.26	-62.79	-13	-49.79
4	2927.75	32.6	-95.26	-62.66	-13	-49.66
5	3346	33.04	-95.26	-62.22	-13	-49.22
6	3764.25	33.65	-95.26	-61.61	-13	-48.61

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1673	31.71	-95.26	-63.55	-13	-50.55
2	2091.25	32.17	-95.26	-63.09	-13	-50.09
3	2509.5	32.68	-95.26	-62.58	-13	-49.58
4	2927.75	33	-95.26	-62.26	-13	-49.26
5	3346	32.78	-95.26	-62.48	-13	-49.48
6	3764.25	33.85	-95.26	-61.41	-13	-48.41

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

Mode	TX channel 20600	Frequency Range	Above 1000 MHz
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Antenna Polarity & Test Distance: Horizontal at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	32.08	-95.26	-63.18	-13	-50.18
2	2110	32.46	-95.26	-62.80	-13	-49.80
3	2532	32.13	-95.26	-63.13	-13	-50.13
4	2954	32.5	-95.26	-62.76	-13	-49.76
5	3376	32.88	-95.26	-62.38	-13	-49.38
6	3798	33.42	-95.26	-61.84	-13	-48.84

Antenna Polarity & Test Distance: Vertical at 3 M

No.	Freq. (MHz)	Reading (dB μ V/m)	Correction Factor (dB)	Emission Value (dBm)	Limit (dBm)	Margin (dB)
1	1688	31.75	-95.26	-63.51	-13	-50.51
2	2110	32.35	-95.26	-62.91	-13	-49.91
3	2532	32.83	-95.26	-62.43	-13	-49.43
4	2954	32.63	-95.26	-62.63	-13	-49.63
5	3376	33.24	-95.26	-62.02	-13	-49.02
6	3798	33.68	-95.26	-61.58	-13	-48.58

Remarks:

1. Follow ANSI 63.26 section 5.2.7 d), Emission Value (dBm) = E (dB μ V/m) - Correction Factor @ 3m.
2. Correction Factor (dB) = 20log(D) - 104.8; where D is the measurement distance @3m.

5 Pictures of Test Arrangements

Please refer to the attached file (Test Setup Photo).

Appendix – Information of the Testing Laboratories

We, Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch, were founded in 1988 to provide our best service in EMC, Radio, Telecom and Safety consultation. Our laboratories are accredited and approved according to ISO/IEC 17025.

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The address and road map of all our labs can be found in our web site also.

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