

Partial FCC Test Report

(PART 24)

Report No.: RFBEDW-WTW-P21031095-1

FCC ID: GKR-LN300EG3L

Test Model: Lenovo 300e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)

Received Date: Mar. 31, 2021

Test Date: Apr. 29 ~ May 05, 2021

Issued Date: May 28, 2021

Applicant: Compal Electronics Inc

Address: No. 581 & 581-1, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan, R.O.C

Issued By: Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch
Lin Kou Laboratories

Lab Address: No. 47-2, 14th Ling, Chia Pau Vil., Lin Kou Dist., New Taipei City, Taiwan

Test Location: No.19, Hwa Ya 2nd Rd., Wen Hwa Vil., Kwei Shan Dist., Taoyuan City
33383, Taiwan

**FCC Registration /
Designation Number:** 788550 / TW0003



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Release Control Record

Issue No.	Description	Date Issued
RFBEDW-WTW-P21031095-1	Original Release	May 28, 2021

1 Certificate of Conformity

Product: Notebook Computer

Brand: Lenovo

Test Model: Lenovo 300e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)

Sample Status: Engineering Sample

Applicant: Compal Electronics Inc

Test Date: Apr. 29 ~ May 05, 2021

Standards: FCC Part 24, Subpart E

The above equipment has been tested by **Bureau Veritas Consumer Products Services (H.K.) Ltd., Taoyuan Branch**, and found compliance with the requirement of the above standards. The test record, data evaluation & Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's RF characteristics under the conditions specified in this report.

Prepared by : Gina Liu, **Date:** May 28, 2021
Gina Liu / Specialist

Approved by : Dylan Chiou, **Date:** May 28, 2021
Dylan Chiou / Senior Project Engineer

2 Summary of Test Results

Applied Standard: FCC Part 24 & Part 2			
FCC Clause	Test Item	Result	Remarks
2.1046 24.232	Effective Isotropic Radiated Power	Pass	Meet the requirement of limit.
2.1047	Modulation Characteristics	N/A	Refer to Note 1
24.232(d)	Peak to Average Ratio	N/A	Refer to Note 1
2.1055 24.235	Frequency Stability	N/A	Refer to Note 1
2.1049	Occupied Bandwidth	N/A	Refer to Note 1
24.238	Band Edge Measurements	N/A	Refer to Note 1
2.1051 24.238	Conducted Spurious Emissions	N/A	Refer to Note 1
2.1053 24.238	Radiated Spurious Emissions	Pass	Meet the requirement of limit. Minimum passing margin is -20.83 dB at 30.00 MHz.

Note:

1. This report is a partial report. Therefore, only test item of Effective Isotropic Radiated Power and Radiated Spurious Emissions tests were performed for this report. Other testing data please refer to BV CPS report no.: RF180704C01-1 for module (Brand: Fibocom, Model: L850-GL)
2. Determining compliance based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

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	9 kHz ~ 30 MHz	3.04 dB
	30 MHz ~ 200 MHz	3.59 dB
	200 MHz ~ 1000 MHz	3.60 dB
Radiated Emissions above 1 GHz	1 GHz ~ 18 GHz	2.29 dB
	18 GHz ~ 40 GHz	2.29 dB

2.2 Test Site and Instruments

Description & Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date of Calibration
Test Receiver KEYSIGHT	N9038A	MY55420137	Apr. 09, 2021	Apr. 08, 2022
Spectrum Analyzer ROHDE & SCHWARZ	FSP40	100039	Jun. 12, 2020	Jun. 11, 2021
BILOG Antenna SCHWARZBECK	VULB9168	9168-160	Nov. 06, 2020	Nov. 05, 2021
HORN Antenna SCHWARZBECK	BBHA 9120 D	9120D-1169	Nov. 22, 2020	Nov. 21, 2021
HORN Antenna SCHWARZBECK	BBHA 9170	BBHA9170241	Nov. 22, 2020	Nov. 21, 2021
Loop Antenna EMCI	EM-6879	269	Sep. 17, 2020	Sep. 16, 2021
Preamplifier Agilent (Below 1GHz)	8447D	2944A10638	Jun. 08, 2020	Jun. 07, 2021
Preamplifier Agilent (Above 1GHz)	8449B	3008A02367	Feb. 17, 2021	Feb. 16, 2022
RF signal cable HUBER+SUHNER&EMCI	SUCOFLEX 104 & EMC104-SM-SM800 0	CABLE-CH9-02 (248780+171006)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable HUBER+SUHNER	SUCOFLEX 104	CABLE-CH9-(2507 95/4)	Jan. 16, 2021	Jan. 15, 2022
RF signal cable Woken	8D-FB	Cable-CH9-01	Jun. 08, 2020	Jun. 07, 2021
Software BV ADT	ADT_Radiated_ V7.6.15.9.5	NA	NA	NA
Antenna Tower & Turn BV ADT	AT100	AT93021705	NA	NA
Turn Table BV ADT	TT100	TT93021705	NA	NA
Turn Table Controller BV ADT	SC100	SC93021705	NA	NA
Boresight Antenna Fixture	FBA-01	FBA-SIP01	NA	NA
WIT Standard Temperature And Humidity Chamber	TH-4S-C	W981030	Jun. 01, 2020	May 31, 2021
JFW 20dB attenuation	50HF-020-SMA	NA	NA	NA
True RMS Clamp Meter Fluke	325	31130711WS	Jun. 06, 2020	Jun. 05, 2021

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 HwaYa Chamber 9.

3 General Information

3.1 General Description of EUT

Product	Notebook Computer	
Brand	Lenovo	
Test Model	Lenovo 300e Chromebook Gen 3*****(*=0~9, A~Z, a~z, "-" or blank, for marketing use only, with no impact on RF compliance of the product)	
Status of EUT	Engineering Sample	
Power Supply Rating	20.0 Vdc from adapter 11.52 Vdc from battery	
Modulation Type	WCDMA	QPSK
	LTE	QPSK, 16QAM
Frequency Range	WCDMA	1852.4 ~ 1907.6 MHz
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	1850.7 ~ 1909.3 MHz
	LTE Band 2 (Channel Bandwidth: 3 MHz)	1851.5 ~ 1908.5 MHz
	LTE Band 2 (Channel Bandwidth: 5 MHz)	1852.5 ~ 1907.5 MHz
	LTE Band 2 (Channel Bandwidth: 10 MHz)	1855.0 ~ 1905.0 MHz
	LTE Band 2 (Channel Bandwidth: 15 MHz)	1857.5 ~ 1902.5 MHz
	LTE Band 2 (Channel Bandwidth: 20 MHz)	1860.0 ~ 1900.0 MHz
Max. EIRP Power	WCDMA	353.997 mW (25.49dBm)
	LTE Band 2 (Channel Bandwidth: 1.4 MHz)	318.420 mW (25.03dBm)
	LTE Band 2 (Channel Bandwidth: 3 MHz)	328.095 mW (25.16dBm)
	LTE Band 2 (Channel Bandwidth: 5 MHz)	332.660 mW (25.22dBm)
	LTE Band 2 (Channel Bandwidth: 10 MHz)	331.894 mW (25.21dBm)
	LTE Band 2 (Channel Bandwidth: 15 MHz)	331.131 mW (25.20dBm)
	LTE Band 2 (Channel Bandwidth: 20 MHz)	333.426 mW (25.23dBm)
Antenna Type	Refer to Note as below	
Accessory Device	Refer to Note as below	
Data Cable Supplied	Refer to Note as below	

Note:

1. The EUT contains following accessory devices.

Product	Brand	Model	Description
Adapter 1	Lenovo	ADLX45YLC2D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V===2.25A, 45.0W 1.75M / Ocore
Adapter 2	Lenovo	ADLX65YCC3D	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V===3.25A, 65.0W 1.77M / Ocore
Adapter 3	Lenovo	ADLX65NLC3A	I/P: 100-240Vac, 50-60Hz, 1.8A O/P: 20.0V ===3.25A 1.55M / Ocore
Battery	Lenovo	L20M3PG0	11.52 Vdc, 3994 mAh, 46Wh
LTE module	Fibocom	L850-GL	-

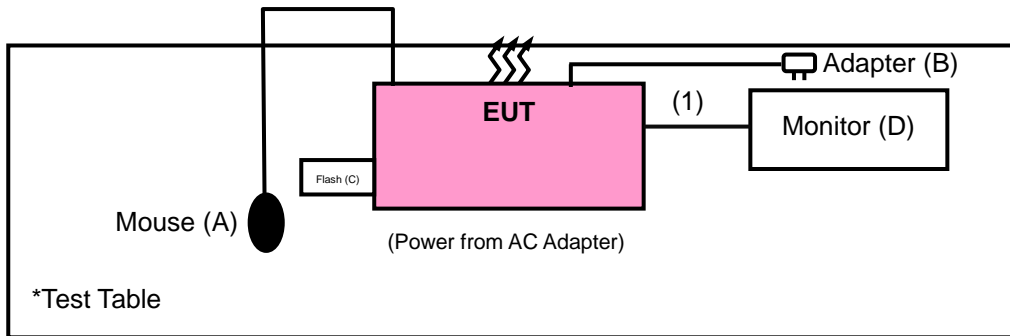
2. The antenna information is listed as below.

Ant. Type	Brand	Ant.	Model	Antenna Peak Gain (dBi)		Connector
				WCDMA II	LTE 2	
PIFA	Pulse	Main	SZ18665 (DC33002JN20)	1.49	1.49	IPEX 20565 or compatible.
		Aux.	SZ1868E (DC33002JN30)			
	South Star	Main	N19-0814-R0A (DC33002J020)	-1.59	-1.59	Kangshuo MHF-B13-N-01
		Aux.	N19-0815-R0A (DC33002J030)			

* The Max antenna gain was chosen for final test.

3. 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.
4. The above EUT information is declared by manufacturer and for more detailed features description, please refers to the manufacturer's specifications or user's manual.

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 tests.

ID	Product	Brand	Model No.	Serial No.	FCC ID	Remarks
A	Mouse	Microsoft	1113	9170515897028	FCC DOC Approved	-
B	Adapter	Lenovo	ADLX45YLC2D	NA	NA	Provided by client
C	Flash	HP	v250W	09	NA	-
D	Monitor	DELL	U2410	CN-0J257M-728 72-0A6-02YL	Doc	-

No.	Signal Cable Description Of The Above Support Units
1.	HDMI Cable: 1m

Note:

1. All power cords of the above support units are non-shielded (1.8m).
2. Item C acted as communication partners to transfer data.

3.3 Test Mode Applicability and Tested Channel Detail

Pre-Scan has been conducted to determine the worst-case mode from all possible combinations between available modulations, data rates, XYZ axis & NB Mode, and antenna ports.

The worst case was found when positioned on NB mode for radiated emission. Following channel(s) was (were) selected for the final test as listed below:

WCDMA

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Mode
-	EIRP	9262 to 9538	9262, 9400, 9538	WCDMA
-	Radiated Emission	9262 to 9538	9262, 9400, 9538	WCDMA

LTE Band 2

EUT Configure Mode	Test Item	Available Channel	Tested Channel	Channel Bandwidth	Modulation	Mode
-	EIRP	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 2 RB Offset 1 RB / 5 RB Offset 3 RB / 0 RB Offset 3 RB / 1 RB Offset 3 RB / 3 RB Offset 6 RB / 0 RB Offset
		18615 to 19185	18615, 18900, 19185	3 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 7 RB Offset 1 RB / 14 RB Offset 8 RB / 0 RB Offset 8 RB / 3 RB Offset 8 RB / 7 RB Offset 15 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 12 RB Offset 1 RB / 24 RB Offset 12 RB / 0 RB Offset 12 RB / 6 RB Offset 12 RB / 13 RB Offset 25 RB / 0 RB Offset
		18650 to 19150	18650, 18900, 19150	10 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 24 RB Offset 1 RB / 49 RB Offset 25 RB / 0 RB Offset 25 RB / 12 RB Offset 25 RB / 25 RB Offset 50 RB / 0 RB Offset
		18675 to 19125	18675, 18900, 19125	15 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 37 RB Offset 1 RB / 74 RB Offset 36 RB / 0 RB Offset 36 RB / 19 RB Offset 36 RB / 39 RB Offset 75 RB / 0 RB Offset

		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK, 16QAM	1 RB / 0 RB Offset 1 RB / 50 RB Offset 1 RB / 99 RB Offset 50 RB / 0 RB Offset 50 RB / 25 RB Offset 50 RB / 50 RB Offset 100 RB / 0 RB Offset
-	Radiated Emission	18607 to 19193	18607, 18900, 19193	1.4 MHz	QPSK	1 RB / 0 RB Offset
		18625 to 19175	18625, 18900, 19175	5 MHz	QPSK	1 RB / 0 RB Offset
		18700 to 19100	18700, 18900, 19100	20 MHz	QPSK	1 RB / 0 RB Offset

Note:

1. This device was tested under all bandwidths, RB configurations and modulations. The worst case was found in QPSK modulation.
2. For radiated emission above 1 GHz, according to 3GPP 36.521 Section 6.6.3.1.4, choose the lowest, 5 MHz & highest channel bandwidth for final test.
3. For radiated emissions below 1 GHz, select the worst radiated emission channel for final testing.

Test Condition:

Test Item	Environmental Conditions	Input Power	Tested By
EIRP	25 deg. C, 60 % RH	120 Vac, 60 Hz	Jones Chang
Radiated Emission	22 deg. C, 66 % RH	120 Vac, 60 Hz	Rex Wang

3.4 EUT Operating Conditions

The EUT makes a call to the communication simulator. 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 24**
- ANSI 63.26-2015**

NOTE: 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**
- ANSI/TIA/EIA-603-E 2016**

NOTE: 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 2 watts e.i.r.p.

4.1.2 Test Procedures

Maximum EIRP / ERP

The relevant equation for determining the maximum ERP or EIRP from the measured RF output power is given in Equation as follows:

$$\text{EIRP} = P_{\text{Meas}} + G_T$$

$$\text{ERP} = P_{\text{Meas}} + G_T - 2.15$$

where

ERP or EIRP effective radiated power or equivalent isotropically radiated power, respectively
(expressed in the same units as P_{Meas} , e.g., dBm or dBW)

P_{Meas} measured transmitter output power or PSD, in dBm or dBW

G_T gain of the transmitting antenna, in dBd (ERP) or dBi (EIRP)

Conducted Power Measurement:

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

4.1.3 Test Setup

Conducted Power Measurement:



4.1.4 Test Results

Conducted Output Power (dBm)

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	23.50	23.67	24.00
HSDPA Subtest-1	23.57	23.69	23.97
HSDPA Subtest-2	22.54	22.70	23.08
HSDPA Subtest-3	22.08	22.23	22.51
HSDPA Subtest-4	22.00	22.01	22.27
HSUPA Subtest-1	22.59	22.65	22.98
HSUPA Subtest-2	20.36	20.44	20.86
HSUPA Subtest-3	21.13	21.21	21.57
HSUPA Subtest-4	20.61	20.76	21.00
HSUPA Subtest-5	22.60	22.80	23.00

LTE Band 2															
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)
				18700	18900	19100						18675	18900	19125	
		Channel Frequency (MHz)	1860.0	1880.0	1900.0	Channel Frequency (MHz)	1857.5			1880.0	1902.5				
20M	QPSK	1	0	23.20	23.05	23.31	0	15M	QPSK	1	0	22.91	23.05	23.27	0
		1	50	22.87	23.18	23.43	0			1	37	22.64	23.10	23.47	0
		1	99	23.00	23.33	23.44	0			1	74	22.63	23.16	23.32	0
		50	0	22.98	23.20	23.37	1			36	0	22.77	23.13	23.35	1
		50	25	22.90	23.19	23.46	1			36	19	22.65	23.13	23.52	1
		50	50	22.92	23.24	23.60	1			36	39	22.66	23.20	23.53	1
	16QAM	100	0	23.03	23.23	23.74	1		75	0	22.68	23.13	23.56	1	
		1	0	23.51	23.36	23.59	1		16QAM	1	0	23.22	23.34	23.50	1
		1	50	23.16	23.44	23.68	1			1	37	22.93	23.40	23.71	1
		1	99	23.30	23.61	23.61	1			1	74	22.93	23.45	23.46	1
		50	0	21.98	22.25	22.39	2			36	0	21.88	22.18	22.36	2
		50	25	21.90	22.21	22.48	2			36	19	21.75	22.17	22.52	2
		50	50	21.91	22.33	22.63	2			36	39	21.75	22.23	22.53	2
		100	0	22.02	22.29	22.75	2			75	0	21.78	22.13	22.61	2
10M	QPSK	1	0	22.90	23.11	23.42	0	5M		QPSK	1	0	22.89	23.12	23.56
		1	24	22.69	23.09	23.51	0		1		12	22.74	23.05	23.37	0
		1	49	22.61	23.20	23.34	0		1		24	22.64	23.16	23.27	0
		25	0	22.85	23.16	23.54	1		12		0	22.79	23.04	23.45	1
		25	12	22.77	23.12	23.55	1		12		6	22.79	23.04	23.36	1
		25	25	22.70	23.20	23.48	1		12		13	22.71	23.05	23.32	1
	16QAM	50	0	22.73	23.10	23.56	1		25	0	22.82	23.05	23.38	1	
		1	0	23.22	23.40	23.69	1		16QAM	1	0	23.23	23.45	23.73	1
		1	24	23.02	23.42	23.72	1			1	12	23.12	23.32	23.66	1
		1	49	22.94	23.51	23.49	1			1	24	22.97	23.43	23.50	1
		25	0	21.97	22.22	22.58	2			12	0	21.87	22.07	22.55	2
		25	12	21.82	22.16	22.62	2			12	6	21.82	22.10	22.46	2
		25	25	21.74	22.27	22.55	2			12	13	21.73	22.16	22.41	2
		50	0	21.79	22.19	22.62	2			25	0	21.80	22.13	22.45	2
3M	QPSK	1	0	22.84	23.01	23.40	0	1.4M		QPSK	1	0	22.92	23.10	23.33
		1	7	22.77	23.04	23.34	0		1		2	22.81	23.07	23.28	0
		1	14	22.79	23.03	23.21	0		1		5	22.83	23.11	23.28	0
		8	0	22.86	23.04	23.35	1		3		0	22.90	23.08	23.31	0
		8	3	22.83	23.02	23.31	1		3		1	22.82	23.07	23.26	0
		8	7	22.82	23.04	23.29	1		3		3	22.81	23.09	23.22	0
	16QAM	15	0	22.84	23.03	23.33	1		6	0	22.78	23.06	23.22	1	
		1	0	23.20	23.30	23.67	1		16QAM	1	0	23.19	23.41	23.54	1
		1	7	23.14	23.32	23.57	1			1	2	23.07	23.37	23.43	1
		1	14	23.08	23.33	23.44	1			1	5	23.10	23.41	23.42	1
		8	0	21.94	22.08	22.43	2			3	0	23.00	23.20	23.35	1
		8	3	21.91	22.12	22.37	2			3	1	22.92	23.20	23.33	1
		8	7	21.90	22.14	22.35	2			3	3	22.92	23.21	23.27	1
		15	0	21.87	22.08	22.35	2			6	0	21.85	22.11	22.31	2

EIRP Power (dBm)

Band	WCDMA II		
Channel	9262	9400	9538
Frequency (MHz)	1852.4	1880.0	1907.6
RMC 12.2K	24.99	25.16	25.49
HSDPA Subtest-1	25.06	25.18	25.46
HSDPA Subtest-2	24.03	24.19	24.57
HSDPA Subtest-3	23.57	23.72	24.00
HSDPA Subtest-4	23.49	23.50	23.76
HSUPA Subtest-1	24.08	24.14	24.47
HSUPA Subtest-2	21.85	21.93	22.35
HSUPA Subtest-3	22.62	22.70	23.06
HSUPA Subtest-4	22.10	22.25	22.49
HSUPA Subtest-5	24.09	24.29	24.49

LTE Band 2																	
BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)	BW	MCS Index	RB Size	RB Offset	Low	Mid	High	3GPP MPR (dB)		
				Channel	18700	18900						19100	Channel	18675		18900	19125
				Frequency (MHz)	1860.0	1880.0						1900.0	Frequency (MHz)	1857.5		1880.0	1902.5
20M	QPSK	1	0	24.69	24.54	24.80	0	15M	QPSK	1	0	24.40	24.54	24.76	0		
		1	50	24.36	24.67	24.92	0			1	37	24.13	24.59	24.96	0		
		1	99	24.49	24.82	24.93	0			1	74	24.12	24.65	24.81	0		
		50	0	24.47	24.69	24.86	1			36	0	24.26	24.62	24.84	1		
		50	25	24.39	24.68	24.95	1			36	19	24.14	24.62	25.01	1		
		50	50	24.41	24.73	25.09	1			36	39	24.15	24.69	25.02	1		
		100	0	24.52	24.72	25.23	1			75	0	24.17	24.62	25.05	1		
	16QAM	1	0	25.00	24.85	25.08	1		16QAM	1	0	24.71	24.83	24.99	1		
		1	50	24.65	24.93	25.17	1			1	37	24.42	24.89	25.20	1		
		1	99	24.79	25.10	25.10	1			1	74	24.42	24.94	24.95	1		
		50	0	23.47	23.74	23.88	2			36	0	23.37	23.67	23.85	2		
		50	25	23.39	23.70	23.97	2			36	19	23.24	23.66	24.01	2		
		50	50	23.40	23.82	24.12	2			36	39	23.24	23.72	24.02	2		
		100	0	23.51	23.78	24.24	2			75	0	23.27	23.62	24.10	2		
10M	QPSK	1	0	24.39	24.60	24.91	0	5M	QPSK	1	0	24.38	24.61	25.05	0		
		1	24	24.18	24.58	25.00	0			1	12	24.23	24.54	24.86	0		
		1	49	24.10	24.69	24.83	0			1	24	24.13	24.65	24.76	0		
		25	0	24.34	24.65	25.03	1			12	0	24.28	24.53	24.94	1		
		25	12	24.26	24.61	25.04	1			12	6	24.28	24.53	24.85	1		
		25	25	24.19	24.69	24.97	1			12	13	24.20	24.54	24.81	1		
		50	0	24.22	24.59	25.05	1			25	0	24.31	24.54	24.87	1		
	16QAM	1	0	24.71	24.89	25.18	1		16QAM	1	0	24.72	24.94	25.22	1		
		1	24	24.51	24.91	25.21	1			1	12	24.61	24.81	25.15	1		
		1	49	24.43	25.00	24.98	1			1	24	24.46	24.92	24.99	1		
		25	0	23.46	23.71	24.07	2			12	0	23.36	23.56	24.04	2		
		25	12	23.31	23.65	24.11	2			12	6	23.31	23.59	23.95	2		
		25	25	23.23	23.76	24.04	2			12	13	23.22	23.65	23.90	2		
		50	0	23.28	23.68	24.11	2			25	0	23.29	23.62	23.94	2		
3M	QPSK	1	0	24.33	24.50	24.89	0	1.4M	QPSK	1	0	24.41	24.59	24.82	0		
		1	7	24.26	24.53	24.83	0			1	2	24.30	24.56	24.77	0		
		1	14	24.28	24.52	24.70	0			1	5	24.32	24.60	24.77	0		
		8	0	24.35	24.53	24.84	1			3	0	24.39	24.57	24.80	0		
		8	3	24.32	24.51	24.80	1			3	1	24.31	24.56	24.75	0		
		8	7	24.31	24.53	24.78	1			3	3	24.30	24.58	24.71	0		
		15	0	24.33	24.52	24.82	1			6	0	24.27	24.55	24.71	1		
	16QAM	1	0	24.69	24.79	25.16	1		16QAM	1	0	24.68	24.90	25.03	1		
		1	7	24.63	24.81	25.06	1			1	2	24.56	24.86	24.92	1		
		1	14	24.57	24.82	24.93	1			1	5	24.59	24.90	24.91	1		
		8	0	23.43	23.57	23.92	2			3	0	24.49	24.69	24.84	1		
		8	3	23.40	23.61	23.86	2			3	1	24.41	24.69	24.82	1		
		8	7	23.39	23.63	23.84	2			3	3	24.41	24.70	24.76	1		
		15	0	23.36	23.57	23.84	2			6	0	23.34	23.60	23.80	2		

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 is equal to -13 dBm.

4.2.2 Test Procedure

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8 m (below or equal 1 GHz) and/or 1.5 m (above 1 GHz) 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 1 m to 4 m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. EIRP = Output power level of S.G – TX cable loss + Antenna gain of substitution horn.
- c. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole, E.R.P power = E.I.R.P power - 2.15 dB.

NOTE:

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 1 MHz/3 MHz.
2. The emission levels were against the limit of frequency range 9 kHz ~ 30 MHz:

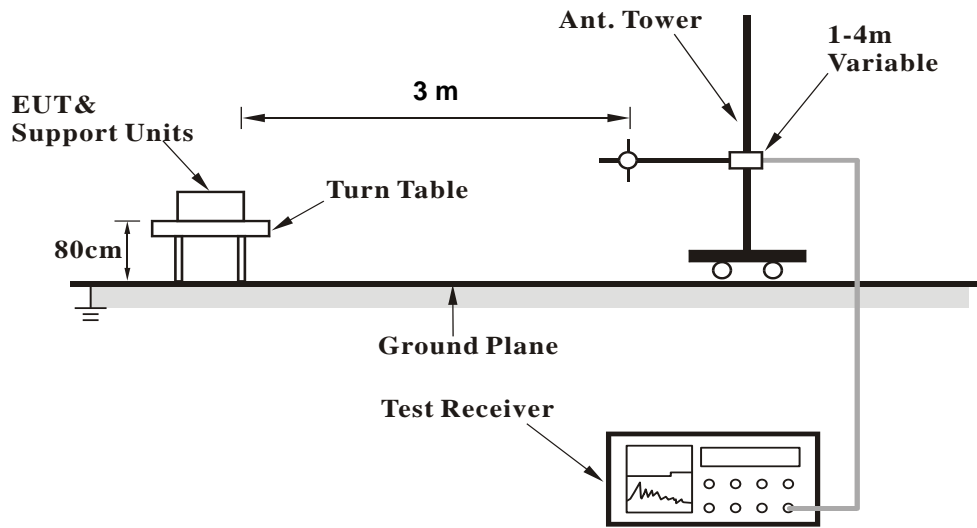
The amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required to be report.

4.2.3 Deviation from Test Standard

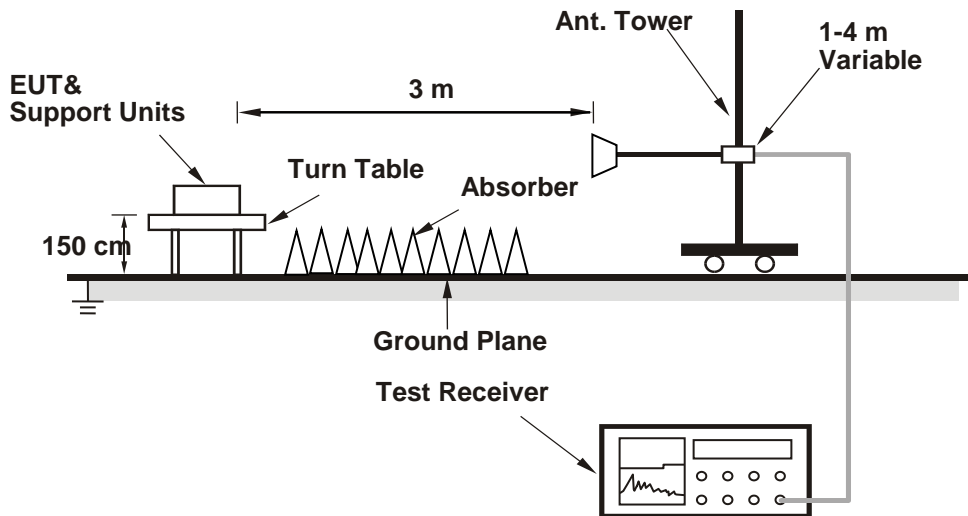
No deviation.

4.2.4 Test Setup

<Radiated Emission below or equal 1 GHz>



<Radiated Emission above 1 GHz>



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

4.2.5 Test Results

BELOW 1GHz

RF Mode	TX WCDMA Band II	Channel	CH 9538 : 1907.6 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	62.01	-51.20	-13.00	-38.20	1.50 H	37	53.90	-105.10
2	149.31	-53.90	-13.00	-40.90	1.00 H	280	49.80	-103.70
3	216.24	-57.60	-13.00	-44.60	1.25 H	56	48.50	-106.10
4	241.46	-53.10	-13.00	-40.10	1.00 H	96	51.30	-104.40
5	287.05	-52.60	-13.00	-39.60	2.00 H	263	49.70	-102.30
6	553.80	-54.00	-13.00	-41.00	1.25 H	345	43.10	-97.10

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	48.43	-36.70	-13.00	-23.70	1.00 V	107	67.60	-104.30
2	189.08	-54.50	-13.00	-41.50	1.25 V	122	51.60	-106.10
3	269.59	-52.90	-13.00	-39.90	1.50 V	11	50.10	-103.00
4	365.62	-54.10	-13.00	-41.10	1.00 V	48	46.50	-100.60
5	426.73	-51.30	-13.00	-38.30	1.25 V	107	48.10	-99.40
6	647.89	-53.50	-13.00	-40.50	2.00 V	150	41.60	-95.10

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 19175 : 1907.5 MHz
Frequency Range	30MHz ~ 1GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.97	-52.03	-13.00	-39.03	1.25 H	356	53.79	-105.82
2	58.13	-49.00	-13.00	-36.00	1.00 H	229	55.56	-104.56
3	110.51	-53.84	-13.00	-40.84	1.50 H	68	53.07	-106.91
4	159.98	-52.16	-13.00	-39.16	1.00 H	127	51.35	-103.51
5	267.65	-51.58	-13.00	-38.58	2.00 H	280	51.47	-103.05
6	565.44	-51.98	-13.00	-38.98	1.25 H	96	44.80	-96.78

Antenna Polarity & Test Distance : Vertical at 3m

No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	30.00	-33.83	-13.00	-20.83	1.25 V	107	71.75	-105.58
2	147.37	-50.22	-13.00	-37.22	2.00 V	107	53.42	-103.64
3	291.90	-52.70	-13.00	-39.70	1.00 V	334	49.54	-102.24
4	331.67	-50.61	-13.00	-37.61	1.00 V	107	50.66	-101.27
5	466.50	-54.14	-13.00	-41.14	1.50 V	48	44.23	-98.37
6	619.76	-54.00	-13.00	-41.00	1.50 V	37	41.40	-95.40

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

ABOVE 1GHz

RF Mode	TX WCDMA Band II	Channel	CH 9262 : 1852.4 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-53.68	-13.00	-40.68	1.01 H	166	42.28	-95.96
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3704.80	-53.07	-13.00	-40.07	1.15 V	59	42.89	-95.96

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX WCDMA Band II	Channel	CH 9400 : 1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-53.60	-13.00	-40.60	1.00 H	163	42.21	-95.81
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-53.02	-13.00	-40.02	1.16 V	54	42.79	-95.81

Remarks:

1. EIRP(dBm) = Raw Value(dBuV) + Correction Factor(dB/m)
2. Correction Factor(dB/m) = Antenna Factor(dB/m) + Cable Factor(dB) – Pre-Amplifier Factor(dB) + 20log(D) – 104.8
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX WCDMA Band II	Channel	CH 9538 : 1907.6 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	3815.20	-53.31	-13.00	-40.31	1.04 H	165	42.23	-95.54
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBUV)	Correction Factor (dB/m)
1	3815.20	-52.19	-13.00	-39.19	1.17 V	57	43.35	-95.54

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 18607 : 1850.7 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-51.60	-13.00	-38.60	3.22 H	128	44.36	-95.96
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3701.40	-50.07	-13.00	-37.07	1.08 V	174	45.89	-95.96

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.36	-13.00	-38.36	3.15 H	118	44.45	-95.81
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-49.87	-13.00	-36.87	1.01 V	169	45.94	-95.81

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-1.4MHz	Channel	CH 19193 : 1909.3 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-50.95	-13.00	-37.95	3.14 H	127	44.58	-95.53

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3818.60	-49.58	-13.00	-36.58	1.03 V	174	45.95	-95.53

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 18625 : 1852.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-51.68	-13.00	-38.68	3.11 H	125	44.28	-95.96

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3705.00	-49.91	-13.00	-36.91	1.03 V	175	46.05	-95.96

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.51	-13.00	-38.51	3.14 H	124	44.30	-95.81

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-49.71	-13.00	-36.71	1.00 V	173	46.10	-95.81

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. Margin value = EIRP – Limit value
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-5MHz	Channel	CH 19175 : 1907.5 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-51.19	-13.00	-38.19	3.15 H	128	44.35	-95.54
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3815.00	-49.43	-13.00	-36.43	1.05 V	177	46.11	-95.54

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 18700 : 1860 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-51.56	-13.00	-38.56	3.19 H	125	44.36	-95.92

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3720.00	-49.99	-13.00	-36.99	1.07 V	176	45.93	-95.92

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 18900 : 1880 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-51.41	-13.00	-38.41	3.15 H	131	44.40	-95.81

Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3760.00	-49.69	-13.00	-36.69	1.08 V	173	46.12	-95.81

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

RF Mode	TX LTE Band II-20MHz	Channel	CH 19100 : 1900 MHz
Frequency Range	1GMHz ~ 20GHz		

Antenna Polarity & Test Distance : Horizontal at 3 m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-51.08	-13.00	-38.08	3.13 H	133	44.48	-95.56
Antenna Polarity & Test Distance : Vertical at 3m								
No	Frequency (MHz)	EIRP (dBm)	Limit (dBm)	Margin (dB)	Antenna Height (m)	Table Angle (Degree)	Raw Value (dBuV)	Correction Factor (dB/m)
1	3800.00	-49.61	-13.00	-36.61	1.04 V	179	45.95	-95.56

Remarks:

1. $EIRP(dBm) = Raw\ Value(dBuV) + Correction\ Factor(dB/m)$
2. $Correction\ Factor(dB/m) = Antenna\ Factor(dB/m) + Cable\ Factor(dB) - Pre-Amplifier\ Factor(dB) + 20\log(D) - 104.8$
3. $Margin\ value = EIRP - Limit\ value$
4. The other EIRP levels were very low against the limit.

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 FCC recognized accredited test firms and accredited according to ISO/IEC 17025.

If you have any comments, please feel free to contact us at the following:

Lin Kou EMC/RF Lab

Tel: 886-2-26052180

Fax: 886-2-26051924

Hsin Chu EMC/RF/Telecom Lab

Tel: 886-3-6668565

Fax: 886-3-6668323

Hwa Ya EMC/RF/Safety Lab

Tel: 886-3-3183232

Fax: 886-3-3270892

Email: service.adt@tw.bureauveritas.com

Web Site: www.bureauveritas-adt.com

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

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