



**FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E
&
INDUSTRY CANADA RSS-132 & RSS-133**

TEST REPORT

For

Tablet Computer

Trade Name: Lenovo

**FCC Model: TP00064A
IC Model: TP00064AUC**

Issued to

**Compal Electronics Inc
No.581, Ruiguang Rd., Neihu District, Taipei, 11492 Taiwan**

Issued by

Compliance Certification Services Inc.

**No.11, Wugong 6th Rd., Wugu Dist.,
New Taipei City 24891, Taiwan. (R.O.C.)**

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Issued Date: April 28, 2014



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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
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1. TEST RESULT CERTIFICATION

Applicant: Compal Electronics Inc
No.581, Ruiguang Rd., Neihu District, Taipei, 11492 Taiwan

Manufacturer: Compal Electronics Inc
No.581, Ruiguang Rd., Neihu District, Taipei, 11492 Taiwan

Equipment Under Test: Tablet Computer

Trade Name: Lenovo

FCC Model Number: TP00064A

IC Model Number: TP00064AUC

Date of Test: March 22 ~ April 16, 2014

APPLICABLE STANDARDS	
STANDARD	TEST RESULT
FCC 47 CFR PART 22 SUBPART H AND PART 24 SUBPART E & IC RSS-132 Issue 3: January, 2013 and IC RSS-133 Issue 6: January, 2013	No non-compliance noted

We hereby certify that:

The above equipment was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in TIA/EIA-603-C and the energy emitted by the sample EUT tested as described in this report is in compliance with radiated emission limits of FCC Rule FCC PART 22 Subpart H, PART 24 Subpart E, IC RSS-132 Issue 3 and IC RSS-133 Issue 6.

The test results of this report relate only to the tested sample identified in this report.

Approved by:

Reviewed by:

Miller Lee
Section Manager
Compliance Certification Services Inc.

Angel Cheng
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Tablet Computer	
Trade Name	Lenovo	
FCC Model Number	TP00064A	
IC Model Number	TP00064AUC	
Model Discrepancy	N/A	
Received Date	April 14, 2014	
Power Supply	<p>1. Power Adapter Lenovo / ADLX36NCt2B I/P: 100-240V 1.5A 50-60Hz O/P: 12V 3A</p> <p>2. a). Trade: SIMPLO TECHNOLOGY (CHANGSHU) INC, SIMPLO TECHNOLOGY (CHONG QING) INC Model: 45N1728 Rating: 8800mAh, 33Wh, 3.75V</p> <p>b). Trade: SIMPLO TECHNOLOGY (CHANGSHU) INC, SIMPLO TECHNOLOGY (CHONG QING) INC Model: 45N1732 (for NEC) Rating: 8800mAh, 33Wh, 3.75V</p> <p>c). Trade: LG Chem (Nanjing) Model: 45N1730 (for NEC) Rating: 8920mAh, 33Wh, 3.7V</p> <p>d). Trade: LG Chem (Nanjing) Model: 45N1726 Rating: 8920mAh, 33Wh, 3.7V</p>	
Frequency Range	LTE Band 2 Channel Bandwidth: 5MHz	1852.5MHz ~1907.5MHz
	LTE Band 2 Channel Bandwidth: 10MHz	1855MHz ~1905MHz
	LTE Band 2 Channel Bandwidth: 20MHz	1860MHz ~1900MHz
	LTE Band 5 Channel Bandwidth: 5MHz	826.5MHz ~846.5MHz
	LTE Band 5 Channel Bandwidth: 10MHz	829MHz ~844MHz
Modulation Technique	LTE Band 2	QPSK, 16QAM
	LTE Band 5	QPSK, 16QAM



Maximum ERP Power	LTE Band 2 Channel Bandwidth: 5MHz	QPSK: 24.60dBm 16QAM: 25.49dBm
	LTE Band 2 Channel Bandwidth: 10MHz	QPSK: 23.64dBm 16QAM: 24.57dBm
	LTE Band 2 Channel Bandwidth: 20MHz	QPSK: 23.11dBm 16QAM: 23.39dBm
Maximum ERP Power	LTE Band 5 Channel Bandwidth: 5MHz	QPSK: 20.81dBm 16QAM: 21.64dBm
	LTE Band 5 Channel Bandwidth: 10MHz	QPSK: 20.15dBm 16QAM: 20.52dBm
Category	LTE: 3	
Antenna Specification	LTE Band 2: PIFA Antenna / Gain: -0.37dBi LTE Band 5: PIFA Antenna / Gain: -3.7dBi	

Remark: *The sample selected for test was engineering sample that approximated to production product and was provided by manufacturer.*



3. TEST METHODOLOGY

Both conducted and radiated testing were performed according to the procedures document on chapter 13 of ANSI C63.4: 2009, TIA/EIA-603-C: 2004 and FCC CFR 47, Part 2 and Part 22 Subpart H & Part 24 Subpart E.

The tests documented in this report were performed in accordance with IC RSS-132, SPSR503, RSS-133, SPSR510 and ANSI C63.4 and TIA/EIA-603-C.

3.1 EUT CONFIGURATION

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner that intends to maximize its emission characteristics in a continuous normal application.

3.2 EUT EXERCISE

The EUT was operated in the engineering mode to fix the TX frequency that was for the purpose of the measurements.

3.3 GENERAL TEST PROCEDURES

Conducted Emissions

The EUT is placed on the turntable, which is 0.8 m above ground plane. According to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz using CISPR Quasi-peak and average detector modes.

Radiated Emissions

The EUT is placed on a turn table, which is 0.8 m above ground plane. The turntable shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna, which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the maximum emissions, exploratory radiated emission measurements were made according to the requirements in Section 13.1.4.1 of ANSI C63.4: 2009.



3.4 DESCRIPTION OF TEST MODES

The EUT (model: TP00064A) had been tested under operating condition.

Software used to control the EUT for staying in continuous transmitting mode was programmed.

LTE Band 2: 1850MHz ~ 1910MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz		20MHz	
	Channel	Frequency (MHz)	Channel	Frequency (MHz)	Channel	Frequency (MHz)
Low channel (L)	18625	1852.5	18650	1855	18700	1860
Middle channel (M)	18900	1880	18900	1880	18900	1880
High channel (H)	19175	1907.5	19150	1905	19100	1900

LTE Band 5: 824MHz ~ 849MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Low channel (L)	20425	826.5	20450	829
Middle channel (M)	20520	836	20520	836
High channel (H)	20625	846.5	20600	844

Test items for conducted and radiated emission were performed for report. Other testing data please refer to module (Brand: Sierra, Model: EM7345, FCC ID: N7NEM7345 and IC: 2417C-EM7345)



4. INSTRUMENT CALIBRATION

4.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment, which was utilized in performing the tests documented herein, has been calibrated in accordance with the manufacturer's recommendations for utilizing calibration equipment, which is traceable to recognized national standards.



4.2 MEASUREMENT EQUIPMENT USED

Equipment Used for Emissions Measurement

Remark: Each piece of equipment is scheduled for calibration once a year and Loop Antenna is scheduled for calibration once three years.

Conducted Emissions Test Site				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	MY43360131	03/19/2015
Power Meter	Anritsu	ML2495A	1012009	06/04/2014
Power Sensor	Anritsu	MA2411A	0917072	06/04/2014

3M Semi Anechoic Chamber				
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4446A	US42510268	11/05/2014
EMI Test Receiver	R&S	ESCI	100064	02/16/2015
Pre-Amplifier	Mini-Circuits	ZFL-1000LN	SF350700823	01/11/2015
Bilog Antenna	Sunol Sciences	JB3	A030105	02/16/2015
Bilog Antenna	Sunol Sciences	JB3	A030205	10/01/2014
Horn Antenna	EMCO	3117	00055165	02/16/2015
Horn Antenna	EMCO	3117	00055167	01/27/2015
Horn Antenna	EMCO	3116	26370	01/06/2015
Loop Antenna	EMCO	6502	8905/2356	06/12/2014
Turn Table	CCS	CC-T-1F	N/A	N.C.R
Antenna Tower	CCS	CC-A-1F	N/A	N.C.R
Controller	CCS	CC-C-1F	N/A	N.C.R
Site NSA	CCS	N/A	N/A	12/21/2014
Test S/W	EZ-EMC (CCS-3A1RE)			



4.3 MEASUREMENT UNCERTAINTY

PARAMETER	UNCERTAINTY
3M Semi Anechoic Chamber / 30M~200M	+/- 4.0138
3M Semi Anechoic Chamber / 200M~1000M	+/- 3.9483
3M Semi Anechoic Chamber / 1G~8G	+/- 2.5975
3M Semi Anechoic Chamber / 8G~18G	+/- 2.6112
3M Semi Anechoic Chamber / 18G~26G	+/- 2.7389
3M Semi Anechoic Chamber / 26G~40G	+/- 2.9683

Remark: This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.



5. FACILITIES AND ACCREDITATIONS

5.1 FACILITIES

All measurement facilities used to collect the measurement data are located at

No.199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan, R.O.C.
Tel: 886-2-2217-0894 / Fax: 886-2-2217-1029

No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)
Tel: 886-2-2299-9720 / Fax: 886-2-2298-4045

No.81-1, Lane 210, Bade 2nd Rd., Lujhu Township, Taoyuan County 33841, TAIWAN,
R.O.C.
Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4: 2009 and CISPR Publication 22.

5.2 EQUIPMENT

Radiated emissions are measured with one or more of the following types of linearly polarized antennas: tuned dipole, biconical, log periodic, bi-log, and/or ridged waveguide, horn. Spectrum analyzers with pre-selectors and quasi-peak detectors are used to perform radiated measurements.

Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

Calibrated wideband preamplifiers, coaxial cables, and coaxial attenuators are also used for making measurements.




All receiving equipment conforms to CISPR Publication 16-1, "Radio Interference Measuring Apparatus and Measurement Methods."

5.3 LABORATORY ACCREDITATIONS AND LISTING

The test facilities used to perform radiated and conducted emissions tests are accredited by American Association for Laboratory Accreditation Program for the specific scope accreditation under Lab Code: 0824-01 to perform Electromagnetic Interference tests according to FCC Part 15 and CISPR 22 requirements. In addition, the test facilities are listed with Industry Canada, Certification and Engineering Bureau, IC 2324G-1 for 3M Semi Anechoic Chamber A, 2324G-2 for 3M Semi Anechoic Chamber B.



5.4 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements	 FCC MRA: TW1039
Taiwan	TAF	LP0002, RTTE01, FCC Method-47 CFR Part 15 Subpart C, D, E, RSS-210, RSS-310 IDA TS SRD, AS/NZS 4268, AS/NZS 4771, TS 12.1 & 12.2, ETSI EN 300 440-1, ETSI EN 300 440-2, ETSI EN 300 328, ETSI EN 300 220-1, ETSI EN 300 220-2, ETSI EN 301 893, ETSI EN 301 489-1/3/7/17 FCC OET Bulletin 65 + Supplement C, EN 50360, EN 50361, EN 50371, RSS 102, EN 50383, EN 50385, EN 50392, IEC 62209, CNS 14958-1, CNS 14959 FCC Method -47 CFR Part 15 Subpart B IEC / EN 61000-3-2, IEC / EN 61000-3-3, IEC / EN 61000-4-2/3/4/5/6/8/11	
Canada	Industry Canada	3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform	 IC 2324G-1 IC 2324G-2

** No part of this report may be used to claim or imply product endorsement by A2LA or any agency of the US Government.*



6. SETUP OF EQUIPMENT UNDER TEST

6.1 SETUP CONFIGURATION OF EUT

See test photographs attached in Appendix II for the actual connections between EUT and support equipment.

6.2 SUPPORT EQUIPMENT

No.	Device Type	Brand	Model	Series No.	FCC ID	Data Cable	Power Cord
	N/A						

Remark:

1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.



7. FCC PART 22 & 24 REQUIREMENTS & INDUSTRY CANADA RSS-132 & RSS-133

7.1 ERP & EIRP MEASUREMENT

LIMIT

According to FCC §2.1046

FCC 22.913(b): The Effective Radiated Power (ERP) of mobile transmitters must not exceed 7 Watts.

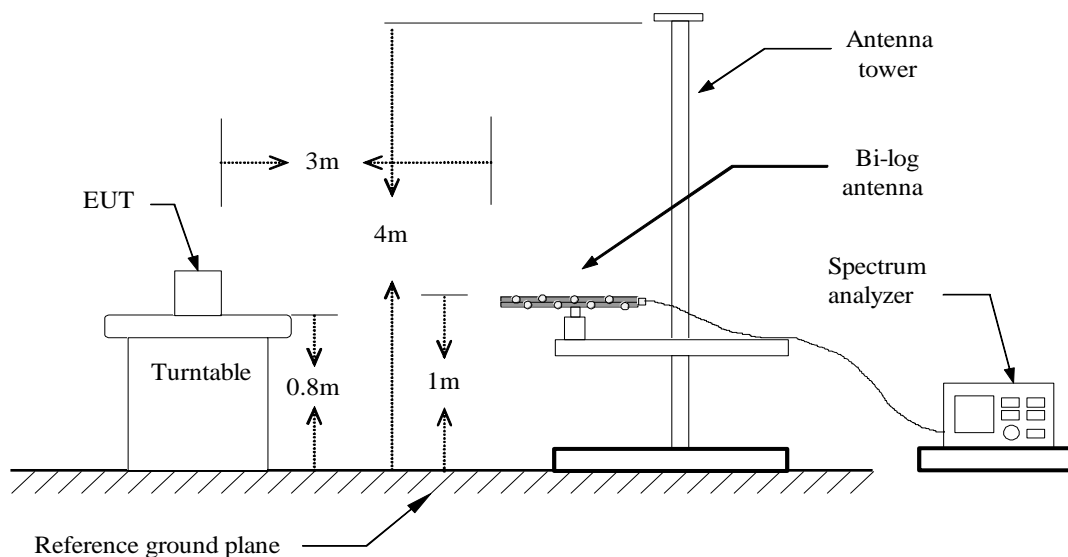
RSS-132 § 4.4 The maximum (ERP) shall be 6.3 Watts for mobile stations.

FCC 24.232(b): The equivalent Isotropic Radiated Power (EIRP) must not exceed 2 Watts.

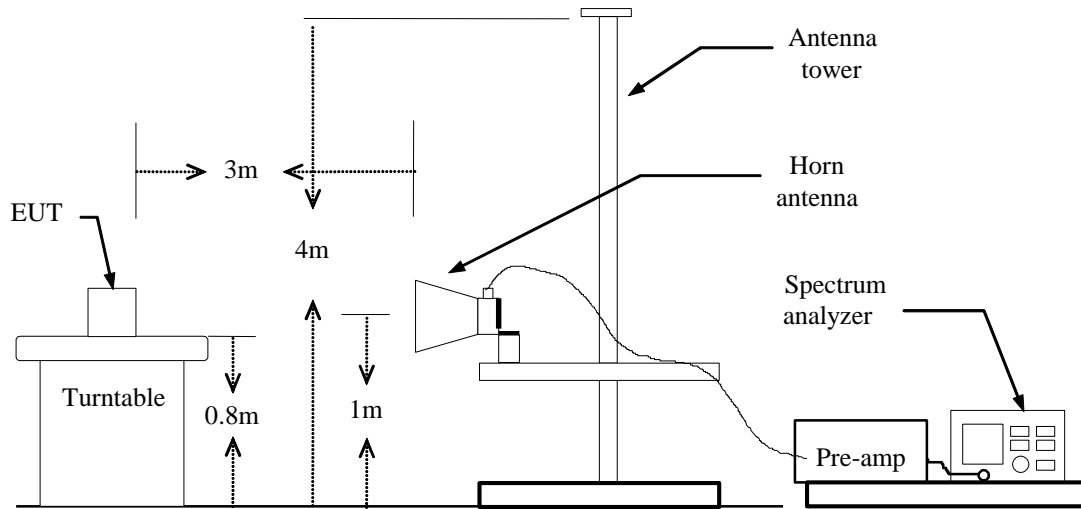
RSS133 § 6.4: Mobile stations and hand-held portables are limited to 2 watts maximum (EIRP).

Test Configuration

Below 1 GHz

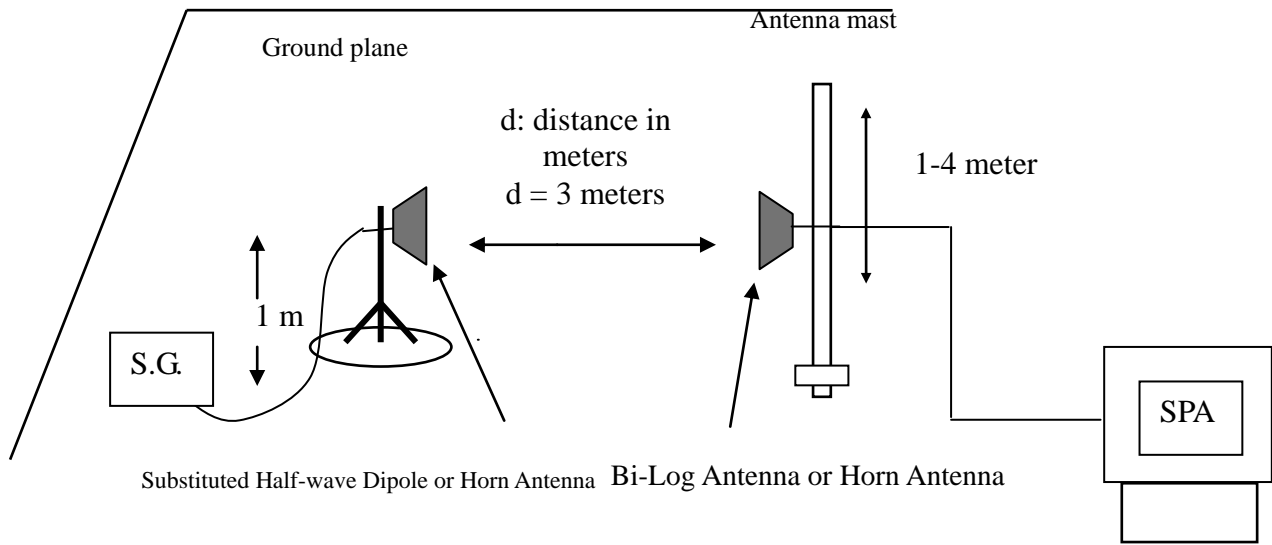


Above 1 GHz





For Substituted Method Test Set-UP



TEST PROCEDURE

The EUT was placed on a non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer.

During the measurement of the EUT, the resolution bandwidth was set to 5MHz and the average bandwidth was set to 50MHz. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna. The reading was recorded and the field strength (E in dBuV/m) was calculated.

ERP in frequency band 824-849MHz, and EIRP in frequency band 1851.25 –1910MHz were measured using a substitution method. The EUT was replaced by half-wave dipole (824-849MHz) or horn antenna (1851.25-1910MHz) connected to a signal generator. The spectrum analyzer reading was recorded and ERP/EIRP was calculated as follows:

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)} - 2.15$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

No non-compliance noted.

**LTE BAND 5****Channel Bandwidth: 5MHz / QPSK**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20425	824.72	V	17.57	3.39	6.24	20.42	38.45	-18.03
	824.96	H	12.93	3.39	6.25	15.79	38.45	-22.66
20520	837.38	V	17.23	3.4	6.37	20.20	38.45	-18.25
	837.32	H	11.89	3.4	6.37	14.86	38.45	-23.59
20625	847.82	V	17.81	3.4	6.4	*20.81	38.45	-17.64
	847.76	H	11.88	3.4	6.4	14.88	38.45	-23.57

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20425	824.66	V	18.79	3.39	6.24	*21.64	38.45	-16.81
	825.26	H	14.03	3.39	6.25	16.89	38.45	-21.56
20520	837.02	V	18.35	3.4	6.37	21.32	38.45	-17.13
	837.26	H	12.94	3.4	6.37	15.91	38.45	-22.54
20625	847.88	V	18.29	3.4	6.4	21.29	38.45	-17.16
	848.18	H	11.8	3.4	6.4	14.80	38.45	-23.65

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20425	832.46	V	17.22	3.39	6.32	*20.15	38.45	-18.30
	832.58	H	12.19	3.39	6.32	15.12	38.45	-23.33
20520	836	V	16.33	3.41	6.39	19.31	38.45	-19.14
	836	H	11.23	3.41	6.39	14.21	38.45	-24.24
20600	844	V	16.55	3.4	6.4	19.55	38.45	-18.90
	844	H	11.23	3.41	6.4	14.22	38.45	-24.23

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
20425	823.16	V	17.29	3.39	6.23	20.13	38.45	-18.32
	822.92	H	13.32	3.39	6.22	16.15	38.45	-22.30
20520	838.46	V	17.18	3.41	6.38	20.15	38.45	-18.30
	838.34	H	11.92	3.41	6.38	14.89	38.45	-23.56
20600	840.50	V	17.53	3.41	6.4	*20.52	38.45	-17.93
	840.74	H	12.07	3.41	6.4	15.06	38.45	-23.39

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.

**LTE BAND 2****Channel Bandwidth: 5MHz / QPSK**

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18625	1853.04	V	12.3	5.37	5.66	12.59	33.00	-20.41
	1851.00	H	24.07	5.37	5.67	24.37	33.00	-8.63
18900	1878.60	V	9.71	5.42	5.62	9.91	33.00	-23.09
	1878.60	H	24.1	5.42	5.62	24.30	33.00	-8.70
19175	1905.72	V	9.32	5.47	5.57	9.42	33.00	-23.58
	1906.20	H	24.5	5.47	5.57	*24.60	33.00	-8.40

Channel Bandwidth: 5MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18625	1853.76	V	11.95	5.38	5.66	12.23	33.00	-20.77
	1852.44	H	24.65	5.37	5.67	24.95	33.00	-8.05
18900	1878.84	V	10.51	5.42	5.62	10.71	33.00	-22.29
	1878.84	H	25.02	5.42	5.62	25.22	33.00	-7.78
19175	1906.20	V	9.96	5.47	5.57	10.06	33.00	-22.94
	1906.20	H	25.39	5.47	5.57	*25.49	33.00	-7.51

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



Channel Bandwidth: 10MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18650	1852.08	V	10.05	5.37	5.67	10.35	33.00	-22.65
	1852.56	H	22.97	5.37	5.67	23.27	33.00	-9.73
18900	1877.40	V	9.27	5.41	5.62	9.48	33.00	-23.52
	1877.40	H	23.43	5.41	5.62	*23.64	33.00	-9.36
19150	1907.52	V	8	5.47	5.57	8.10	33.00	-24.90
	1907.64	H	23.54	5.47	5.57	23.64	33.00	-9.36

Channel Bandwidth: 10MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18650	1852.92	V	11.27	5.37	5.66	11.56	33.00	-21.44
	1854.84	H	23.91	5.38	5.66	24.19	33.00	-8.81
18900	1877.40	V	9.94	5.41	5.62	10.15	33.00	-22.85
	1879.44	H	24.37	5.42	5.62	*24.57	33.00	-8.43
19150	1904.64	V	9.39	5.46	5.57	9.50	33.00	-23.50
	1904.52	H	24.39	5.46	5.57	24.50	33.00	-8.50

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



Channel Bandwidth: 20MHz / QPSK

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18700	1852.68	V	9.02	5.37	5.67	9.32	33.00	-23.68
	1852.20	H	22.02	5.37	5.67	22.32	33.00	-10.68
18900	1872.96	V	8.96	5.41	5.63	9.18	33.00	-23.82
	1879.08	H	22.91	5.42	5.62	*23.11	33.00	-9.89
19100	1906.32	V	7.76	5.47	5.57	7.86	33.00	-25.14
	1904.16	H	22.72	5.46	5.57	22.83	33.00	-10.17

Channel bandwidth: 20MHz / 16QAM

Channel	Frequency (MHz)	Antenna Pol.	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)
18700	1853.88	V	10.05	5.38	5.66	10.33	33.00	-22.67
	1852.56	H	22.5	5.37	5.67	22.80	33.00	-10.20
18900	1874.04	V	8.79	5.41	5.63	9.01	33.00	-23.99
	1879.92	H	23.19	5.42	5.62	*23.39	33.00	-9.61
19100	1905.84	V	8.09	5.47	5.57	8.19	33.00	-24.81
	1904.64	H	22.96	5.46	5.57	23.07	33.00	-9.93

Remark:

1. Output Power (dBm) = Raw Value (dBm) + Correction Factor (dB).
2. Correction Factor (dB) = S.G Level + Gain of Substitution horn + TX cable loss.
3. The value in bold is the worst.



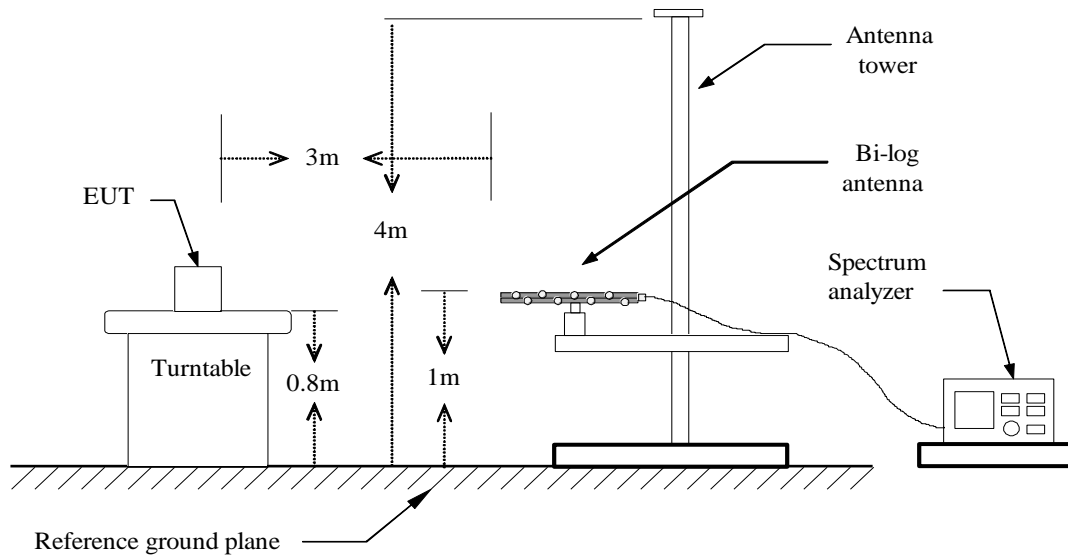
7.2 FIELD STRENGTH OF SPURIOUS RADIATION MEASUREMENT

LIMIT

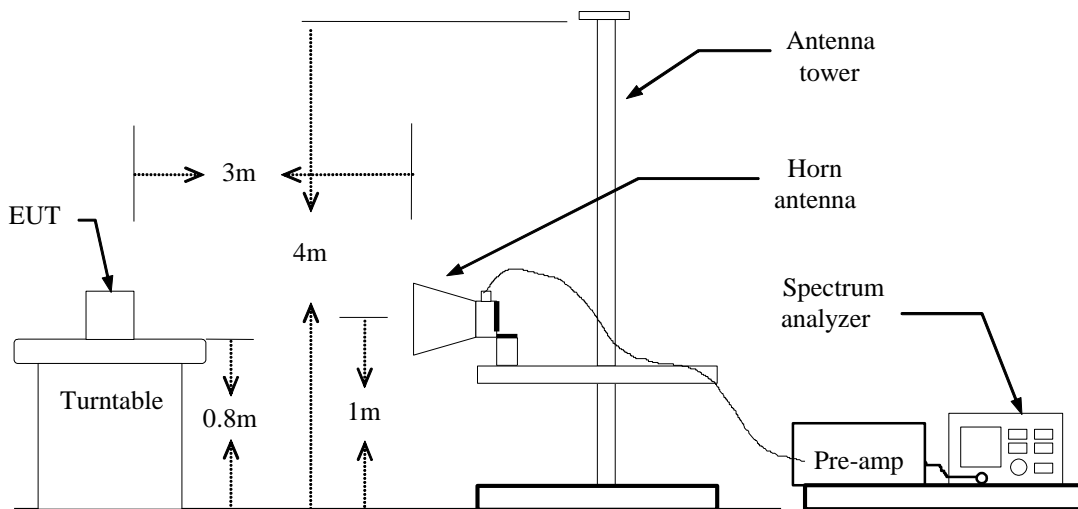
According to FCC §2.1053, RSS-132 (4.6) & RSS-133 (6.5).

Test Configuration

Below 1 GHz

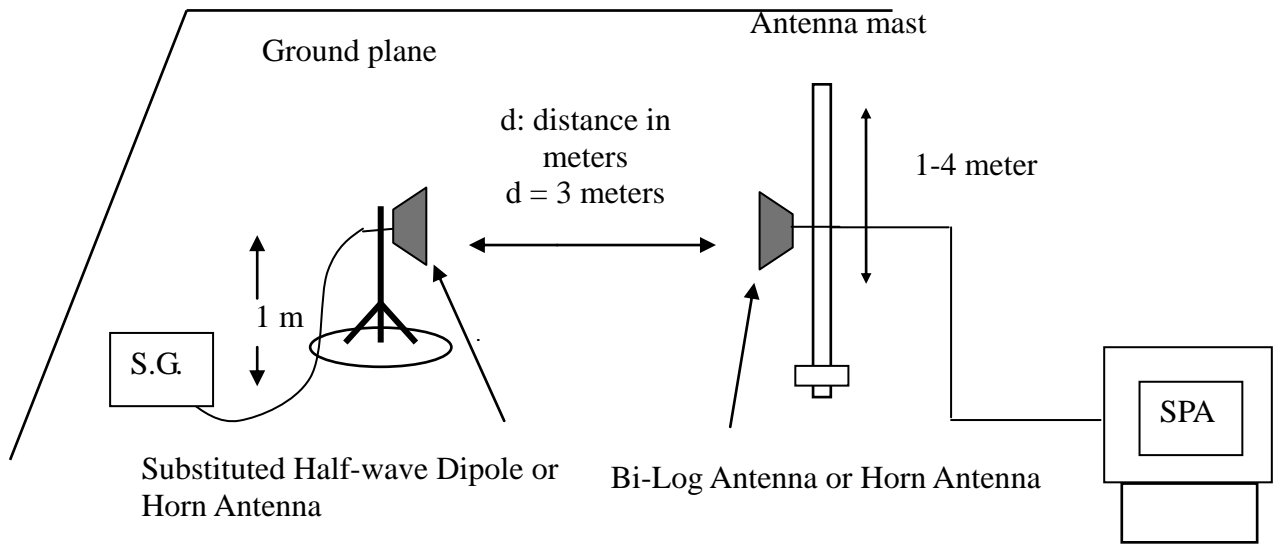


Above 1 GHz





Substituted Method Test Set-up



TEST PROCEDURE

The EUT was placed on a non-conductive, the measurement antenna was placed at a distance of 3 meters from the EUT. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations.

The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission were identified, the power of the emission was determined using the substitution method.

The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency.

$$\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable (dB)}$$

$$\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable (dB)}$$

TEST RESULTS

Refer to the attached tabular data sheets.



Test Results

Below 1GHz

LTE Band 5 / channel bandwidth: 5MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-65.87	0.82	-4.22	-70.91	-13.00	-57.91	V
176.4700	-73.72	1.59	3.21	-72.10	-13.00	-59.10	V
262.8000	-78.22	1.93	5.46	-74.69	-13.00	-61.69	V
339.4300	-76.5	2.17	5.79	-72.88	-13.00	-59.88	V
393.7500	-75.26	2.34	5.99	-71.61	-13.00	-58.61	V
549.9200	-79.03	2.81	6.18	-75.66	-13.00	-62.66	V
123.1200	-66.79	1.29	-1.87	-69.95	-13.00	-56.95	H
191.0200	-71.6	1.62	3.89	-69.33	-13.00	-56.33	H
262.8000	-69.8	1.93	5.46	-66.27	-13.00	-53.27	H
394.7200	-71.55	2.35	5.99	-67.91	-13.00	-54.91	H
554.7700	-76.78	2.82	6.11	-73.49	-13.00	-60.49	H
636.2500	-78.25	3	6.16	-75.09	-13.00	-62.09	H

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.75	0.82	-4.22	-67.79	-13.00	-54.79	V
176.4700	-73.84	1.59	3.21	-72.22	-13.00	-59.22	V
265.7100	-78.22	1.95	5.32	-74.85	-13.00	-61.85	V
395.6900	-73.97	2.36	5.99	-70.34	-13.00	-57.34	V
549.9200	-79.97	2.81	6.18	-76.60	-13.00	-63.60	V
720.6400	-83.46	3.17	6.49	-80.14	-13.00	-67.14	V
47.4600	-63.05	0.78	-6.58	-70.41	-13.00	-57.41	H
123.1200	-67	1.29	-1.87	-70.16	-13.00	-57.16	H
191.9900	-72.01	1.62	3.79	-69.84	-13.00	-56.84	H
262.8000	-68.09	1.93	5.46	-64.56	-13.00	-51.56	H
392.7800	-70.66	2.33	5.99	-67.00	-13.00	-54.00	H
585.8100	-79.06	2.89	6.11	-75.84	-13.00	-62.84	H

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-67.35	0.82	-4.22	-72.39	-13.00	-59.39	V
177.4400	-75.69	1.6	3.31	-73.98	-13.00	-60.98	V
251.1600	-69.78	1.84	5.69	-65.93	-13.00	-52.93	V
379.2000	-75.61	2.31	5.98	-71.94	-13.00	-58.94	V
524.7000	-78.75	2.73	6.05	-75.43	-13.00	-62.43	V
735.1900	-82.72	3.19	6.25	-79.66	-13.00	-66.66	V
47.4600	-65.87	0.78	-6.58	-73.23	-13.00	-60.23	H
123.1200	-69.14	1.29	-1.87	-72.30	-13.00	-59.30	H
248.2500	-65.51	1.83	5.61	-61.73	-13.00	-48.73	H
393.7500	-71.8	2.34	5.99	-68.15	-13.00	-55.15	H
554.7700	-78.05	2.82	6.11	-74.76	-13.00	-61.76	H
694.4500	-79.19	3.12	6.45	-75.86	-13.00	-62.86	H

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 5 / channel bandwidth: 10MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-65.49	0.82	-4.22	-70.53	-13.00	-57.53	V
176.4700	-71.7	1.59	3.21	-70.08	-13.00	-57.08	V
262.8000	-76.79	1.93	5.46	-73.26	-13.00	-60.26	V
339.4300	-76.57	2.17	5.79	-72.95	-13.00	-59.95	V
404.4200	-74.73	2.42	5.95	-71.20	-13.00	-58.20	V
549.9200	-78.89	2.81	6.18	-75.52	-13.00	-62.52	V
47.4600	-64.04	0.78	-6.58	-71.40	-13.00	-58.40	H
123.1200	-66.23	1.29	-1.87	-69.39	-13.00	-56.39	H
258.9200	-69.82	1.9	5.6	-66.12	-13.00	-53.12	H
393.7500	-70.78	2.34	5.99	-67.13	-13.00	-54.13	H
554.7700	-78.02	2.82	6.11	-74.73	-13.00	-61.73	H
644.9800	-78.77	3.02	6.19	-75.60	-13.00	-62.60	H

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.37	0.82	-4.22	-67.41	-13.00	-54.41	V
176.4700	-73.29	1.59	3.21	-71.67	-13.00	-58.67	V
257.9500	-78.1	1.89	5.61	-74.38	-13.00	-61.38	V
339.4300	-76.37	2.17	5.79	-72.75	-13.00	-59.75	V
395.6900	-73.76	2.36	5.99	-70.13	-13.00	-57.13	V
549.9200	-79.22	2.81	6.18	-75.85	-13.00	-62.85	V
47.4600	-61.79	0.78	-6.58	-69.15	-13.00	-56.15	H
123.1200	-67.11	1.29	-1.87	-70.27	-13.00	-57.27	H
191.0200	-71.43	1.62	3.89	-69.16	-13.00	-56.16	H
262.8000	-69.54	1.93	5.46	-66.01	-13.00	-53.01	H
395.6900	-70.83	2.36	5.99	-67.20	-13.00	-54.20	H
554.7700	-77.86	2.82	6.11	-74.57	-13.00	-61.57	H

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.66	0.82	-4.22	-67.70	-13.00	-54.70	V
174.5300	-72.32	1.59	3	-70.91	-13.00	-57.91	V
262.8000	-77.55	1.93	5.46	-74.02	-13.00	-61.02	V
336.5200	-76.43	2.17	5.76	-72.84	-13.00	-59.84	V
385.9900	-73.46	2.32	5.99	-69.79	-13.00	-56.79	V
525.6700	-78.66	2.73	6.04	-75.35	-13.00	-62.35	V
47.4600	-61.99	0.78	-6.58	-69.35	-13.00	-56.35	H
123.1200	-67	1.29	-1.87	-70.16	-13.00	-57.16	H
262.8000	-69.11	1.93	5.46	-65.58	-13.00	-52.58	H
395.6900	-69.87	2.36	5.99	-66.24	-13.00	-53.24	H
554.7700	-76.43	2.82	6.11	-73.14	-13.00	-60.14	H
730.3400	-78.04	3.18	6.39	-74.83	-13.00	-61.83	H

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 5 / channel bandwidth: 5MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-65.84	0.82	-4.22	-70.88	-13.00	-57.88	V
176.4700	-75.4	1.59	3.21	-73.78	-13.00	-60.78	V
254.0700	-70.56	1.86	5.66	-66.76	-13.00	-53.76	V
387.9300	-75.44	2.32	6	-71.76	-13.00	-58.76	V
549.9200	-79.03	2.81	6.18	-75.66	-13.00	-62.66	V
743.9200	-82.16	3.21	6.1	-79.27	-13.00	-66.27	V
48.4300	-64.82	0.79	-5.83	-71.44	-13.00	-58.44	H
123.1200	-68.59	1.29	-1.87	-71.75	-13.00	-58.75	H
250.1900	-65.63	1.84	5.68	-61.79	-13.00	-48.79	H
392.7800	-72.16	2.33	5.99	-68.50	-13.00	-55.50	H
554.7700	-77.5	2.82	6.11	-74.21	-13.00	-61.21	H
652.7400	-79.72	3.04	6.3	-76.46	-13.00	-63.46	H

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser; with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.75	0.82	-4.22	-67.79	-13.00	-54.79	V
176.4700	-73.84	1.59	3.21	-72.22	-13.00	-59.22	V
265.7100	-78.22	1.95	5.32	-74.85	-13.00	-61.85	V
395.6900	-73.97	2.36	5.99	-70.34	-13.00	-57.34	V
549.9200	-79.97	2.81	6.18	-76.60	-13.00	-63.60	V
720.6400	-83.46	3.17	6.49	-80.14	-13.00	-67.14	V
47.4600	-62.97	0.78	-6.58	-70.33	-13.00	-57.33	H
123.1200	-66.6	1.29	-1.87	-69.76	-13.00	-56.76	H
262.8000	-68.51	1.93	5.46	-64.98	-13.00	-51.98	H
392.7800	-70.78	2.33	5.99	-67.12	-13.00	-54.12	H
554.7700	-76.85	2.82	6.11	-73.56	-13.00	-60.56	H
695.4200	-78.1	3.12	6.44	-74.78	-13.00	-61.78	H

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-66.85	0.82	-4.22	-71.89	-13.00	-58.89	V
174.5300	-73.9	1.59	3	-72.49	-13.00	-59.49	V
254.0700	-69.28	1.86	5.66	-65.48	-13.00	-52.48	V
388.9000	-75.04	2.32	6	-71.36	-13.00	-58.36	V
498.5100	-78.54	2.69	5.88	-75.35	-13.00	-62.35	V
633.3400	-83.36	2.99	6.18	-80.17	-13.00	-67.17	V
47.4600	-64.77	0.78	-6.58	-72.13	-13.00	-59.13	H
123.1200	-69.05	1.29	-1.87	-72.21	-13.00	-59.21	H
262.8000	-66.11	1.93	5.46	-62.58	-13.00	-49.58	H
402.4800	-71.27	2.41	5.97	-67.71	-13.00	-54.71	H
554.7700	-77.06	2.82	6.11	-73.77	-13.00	-60.77	H
694.4500	-79.35	3.12	6.45	-76.02	-13.00	-63.02	H

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 5 / channel bandwidth: 10MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-64.83	0.82	-4.22	-69.87	-13.00	-56.87	V
174.5300	-74.06	1.59	3	-72.65	-13.00	-59.65	V
258.9200	-78.49	1.9	5.6	-74.79	-13.00	-61.79	V
400.5400	-73.95	2.4	5.98	-70.37	-13.00	-57.37	V
549.9200	-79.17	2.81	6.18	-75.80	-13.00	-62.80	V
731.3100	-82.94	3.18	6.37	-79.75	-13.00	-66.75	V
47.4600	-62.02	0.78	-6.58	-69.38	-13.00	-56.38	H
123.1200	-67.49	1.29	-1.87	-70.65	-13.00	-57.65	H
191.0200	-71.97	1.62	3.89	-69.70	-13.00	-56.70	H
260.8600	-69.16	1.91	5.56	-65.51	-13.00	-52.51	H
395.6900	-71.42	2.36	5.99	-67.79	-13.00	-54.79	H
554.7700	-77.17	2.82	6.11	-73.88	-13.00	-60.88	H

Remark:

- 1. The emission behaviour belongs to narrowband spurious emission.*
- 2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.32	0.82	-4.22	-67.36	-13.00	-54.36	V
176.4700	-73.6	1.59	3.21	-71.98	-13.00	-58.98	V
259.8900	-78.1	1.91	5.59	-74.42	-13.00	-61.42	V
339.4300	-74.66	2.17	5.79	-71.04	-13.00	-58.04	V
392.7800	-74.69	2.33	5.99	-71.03	-13.00	-58.03	V
523.7300	-79.8	2.72	6.06	-76.46	-13.00	-63.46	V
47.4600	-62.61	0.78	-6.58	-69.97	-13.00	-56.97	H
123.1200	-67.06	1.29	-1.87	-70.22	-13.00	-57.22	H
262.8000	-69.19	1.93	5.46	-65.66	-13.00	-52.66	H
401.5100	-70.83	2.4	5.98	-67.25	-13.00	-54.25	H
450.0100	-73.16	2.59	5.72	-70.03	-13.00	-57.03	H
635.2800	-77.93	2.99	6.17	-74.75	-13.00	-61.75	H

Remark:

1. The emission behaviour belongs to narrowband spurious emission.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
52.3100	-62.08	0.82	-4.22	-67.12	-13.00	-54.12	V
176.4700	-72.38	1.59	3.21	-70.76	-13.00	-57.76	V
221.0900	-76.09	1.77	5.33	-72.53	-13.00	-59.53	V
260.8600	-76.78	1.91	5.56	-73.13	-13.00	-60.13	V
395.6900	-73.95	2.36	5.99	-70.32	-13.00	-57.32	V
504.3300	-79.15	2.7	5.94	-75.91	-13.00	-62.91	V
47.4600	-60.88	0.78	-6.58	-68.24	-13.00	-55.24	H
123.1200	-66.37	1.29	-1.87	-69.53	-13.00	-56.53	H
262.8000	-67.95	1.93	5.46	-64.42	-13.00	-51.42	H
399.5700	-69.4	2.39	5.98	-65.81	-13.00	-52.81	H
475.2300	-74.56	2.63	5.65	-71.54	-13.00	-58.54	H
636.2500	-78.57	3	6.16	-75.41	-13.00	-62.41	H

Remark:

1. *The emission behaviour belongs to narrowband spurious emission.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 2 / channel bandwidth: 5MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60% RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-66.85	1.29	-1.87	-70.01	-13.00	-57.01	V
149.3100	-71.03	1.42	0.62	-71.83	-13.00	-58.83	V
250.1900	-66.9	1.84	5.68	-63.06	-13.00	-50.06	V
260.8600	-74.08	1.91	5.56	-70.43	-13.00	-57.43	V
402.4800	-75.52	2.41	5.97	-71.96	-13.00	-58.96	V
572.2300	-82.02	2.87	6.09	-78.80	-13.00	-65.80	V
123.1200	-64.28	1.29	-1.87	-67.44	-13.00	-54.44	H
253.1000	-61.24	1.86	5.67	-57.43	-13.00	-44.43	H
386.9600	-69.41	2.32	6	-65.73	-13.00	-52.73	H
508.2100	-77.13	2.69	5.98	-73.84	-13.00	-60.84	H
549.9200	-77	2.81	6.18	-73.63	-13.00	-60.63	H
749.7400	-76.48	3.2	6.1	-73.58	-13.00	-60.58	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-68.41	1.29	-1.87	-71.57	-13.00	-58.57	V
175.5000	-73.22	1.59	3.1	-71.71	-13.00	-58.71	V
228.8500	-72.54	1.79	5.38	-68.95	-13.00	-55.95	V
252.1300	-67.25	1.85	5.68	-63.42	-13.00	-50.42	V
355.9200	-76.99	2.25	5.74	-73.50	-13.00	-60.50	V
402.4800	-75.58	2.41	5.97	-72.02	-13.00	-59.02	V
48.4300	-62.63	0.79	-5.83	-69.25	-13.00	-56.25	H
123.1200	-64.54	1.29	-1.87	-67.70	-13.00	-54.70	H
187.1400	-73.37	1.62	3.89	-71.10	-13.00	-58.10	H
243.4000	-62.57	1.82	5.43	-58.96	-13.00	-45.96	H
384.0500	-68.78	2.31	5.99	-65.10	-13.00	-52.10	H
471.3500	-77.54	2.62	5.74	-74.42	-13.00	-61.42	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.61	1.29	-1.87	-70.77	-13.00	-57.77	V
216.2400	-72.74	1.74	5.36	-69.12	-13.00	-56.12	V
241.4600	-67.25	1.81	5.36	-63.70	-13.00	-50.70	V
356.8900	-77.45	2.26	5.73	-73.98	-13.00	-60.98	V
394.7200	-75.98	2.35	5.99	-72.34	-13.00	-59.34	V
623.6400	-81.57	2.95	6.14	-78.38	-13.00	-65.38	V
48.4300	-62.2	0.79	-5.83	-68.82	-13.00	-55.82	H
123.1200	-64.56	1.29	-1.87	-67.72	-13.00	-54.72	H
157.0700	-71.31	1.47	1.22	-71.56	-13.00	-58.56	H
257.9500	-62.79	1.89	5.61	-59.07	-13.00	-46.07	H
396.6600	-68.55	2.36	5.99	-64.92	-13.00	-51.92	H
554.7700	-76.31	2.82	6.11	-73.02	-13.00	-60.02	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 2 / channel bandwidth: 10MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.18	1.29	-1.87	-70.34	-13.00	-57.34	V
247.2800	-66.94	1.83	5.57	-63.20	-13.00	-50.20	V
353.0100	-76.7	2.24	5.77	-73.17	-13.00	-60.17	V
398.6000	-76.98	2.38	5.98	-73.38	-13.00	-60.38	V
575.1400	-81.83	2.88	6.06	-78.65	-13.00	-65.65	V
639.1600	-81.9	3	6.14	-78.76	-13.00	-65.76	V
123.1200	-63.95	1.29	-1.87	-67.11	-13.00	-54.11	H
214.3000	-74.21	1.72	5.38	-70.55	-13.00	-57.55	H
253.1000	-62.07	1.86	5.67	-58.26	-13.00	-45.26	H
338.4600	-74.95	2.17	5.78	-71.34	-13.00	-58.34	H
389.8700	-69.84	2.32	6	-66.16	-13.00	-53.16	H
644.0100	-77.43	3.02	6.17	-74.28	-13.00	-61.28	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.44	1.29	-1.87	-70.60	-13.00	-57.60	V
253.1000	-67.55	1.86	5.67	-63.74	-13.00	-50.74	V
355.9200	-76	2.25	5.74	-72.51	-13.00	-59.51	V
399.5700	-76.43	2.39	5.98	-72.84	-13.00	-59.84	V
554.7700	-80.74	2.82	6.11	-77.45	-13.00	-64.45	V
763.3200	-81.46	3.24	6.33	-78.37	-13.00	-65.37	V
123.1200	-64.23	1.29	-1.87	-67.39	-13.00	-54.39	H
213.3300	-75	1.71	5.4	-71.31	-13.00	-58.31	H
253.1000	-62.41	1.86	5.67	-58.60	-13.00	-45.60	H
355.9200	-71.86	2.25	5.74	-68.37	-13.00	-55.37	H
391.8100	-69.98	2.32	6	-66.30	-13.00	-53.30	H
554.7700	-75.77	2.82	6.11	-72.48	-13.00	-59.48	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
40.6700	-58.7	0.73	-11.85	-71.28	-13.00	-58.28	V
123.1200	-67.77	1.29	-1.87	-70.93	-13.00	-57.93	V
153.1900	-71.33	1.44	0.94	-71.83	-13.00	-58.83	V
244.3700	-67.5	1.82	5.47	-63.85	-13.00	-50.85	V
356.8900	-76.23	2.26	5.73	-72.76	-13.00	-59.76	V
408.3000	-76.68	2.44	5.92	-73.20	-13.00	-60.20	V
118.2700	-64.77	1.26	-2.03	-68.06	-13.00	-55.06	H
132.8200	-67.54	1.36	-1.07	-69.97	-13.00	-56.97	H
253.1000	-61.59	1.86	5.67	-57.78	-13.00	-44.78	H
391.8100	-68.94	2.32	6	-65.26	-13.00	-52.26	H
476.2000	-77.87	2.63	5.63	-74.87	-13.00	-61.87	H
600.3600	-77.92	2.9	6.4	-74.42	-13.00	-61.42	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 2 / channel bandwidth: 20MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-68.26	1.29	-1.87	-71.42	-13.00	-58.42	V
252.1300	-68.44	1.85	5.68	-64.61	-13.00	-51.61	V
356.8900	-76.36	2.26	5.73	-72.89	-13.00	-59.89	V
416.0600	-76.84	2.46	5.85	-73.45	-13.00	-60.45	V
426.7300	-78.77	2.48	5.8	-75.45	-13.00	-62.45	V
550.8900	-82.01	2.81	6.17	-78.65	-13.00	-65.65	V
47.4600	-61.47	0.78	-6.58	-68.83	-13.00	-55.83	H
123.1200	-63.88	1.29	-1.87	-67.04	-13.00	-54.04	H
187.1400	-74.18	1.62	3.89	-71.91	-13.00	-58.91	H
244.3700	-63.52	1.82	5.47	-59.87	-13.00	-46.87	H
385.0200	-69.73	2.31	5.99	-66.05	-13.00	-53.05	H
554.7700	-77.05	2.82	6.11	-73.76	-13.00	-60.76	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
41.6400	-59.48	0.74	-11.1	-71.32	-13.00	-58.32	V
110.5100	-70.89	1.21	-1.72	-73.82	-13.00	-60.82	V
151.2500	-70.28	1.43	0.8	-70.91	-13.00	-57.91	V
247.2800	-68.41	1.83	5.57	-64.67	-13.00	-51.67	V
355.9200	-77.4	2.25	5.74	-73.91	-13.00	-60.91	V
402.4800	-75.88	2.41	5.97	-72.32	-13.00	-59.32	V
48.4300	-62.42	0.79	-5.83	-69.04	-13.00	-56.04	H
123.1200	-65.97	1.29	-1.87	-69.13	-13.00	-56.13	H
222.0600	-71.46	1.77	5.34	-67.89	-13.00	-54.89	H
255.0400	-64.15	1.87	5.65	-60.37	-13.00	-47.37	H
386.9600	-69.93	2.32	6	-66.25	-13.00	-53.25	H
554.7700	-77.59	2.82	6.11	-74.30	-13.00	-61.30	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-68.25	1.29	-1.87	-71.41	-13.00	-58.41	V
150.2800	-70.66	1.43	0.71	-71.38	-13.00	-58.38	V
253.1000	-68.06	1.86	5.67	-64.25	-13.00	-51.25	V
275.4100	-77.33	1.99	5.21	-74.11	-13.00	-61.11	V
356.8900	-77	2.26	5.73	-73.53	-13.00	-60.53	V
410.2400	-76.6	2.45	5.9	-73.15	-13.00	-60.15	V
47.4600	-61.71	0.78	-6.58	-69.07	-13.00	-56.07	H
123.1200	-65.56	1.29	-1.87	-68.72	-13.00	-55.72	H
211.3900	-75.31	1.7	5.42	-71.59	-13.00	-58.59	H
255.0400	-63.2	1.87	5.65	-59.42	-13.00	-46.42	H
377.2600	-72.14	2.31	5.94	-68.51	-13.00	-55.51	H
385.0200	-68.12	2.31	5.99	-64.44	-13.00	-51.44	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 5MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60% RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-68.12	1.29	-1.87	-71.28	-13.00	-58.28	V
157.0700	-72.56	1.47	1.22	-72.81	-13.00	-59.81	V
255.0400	-67.16	1.87	5.65	-63.38	-13.00	-50.38	V
356.8900	-77.56	2.26	5.73	-74.09	-13.00	-61.09	V
400.5400	-76.39	2.4	5.98	-72.81	-13.00	-59.81	V
540.2200	-81.53	2.78	6.26	-78.05	-13.00	-65.05	V
123.1200	-64.32	1.29	-1.87	-67.48	-13.00	-54.48	H
157.0700	-71.14	1.47	1.22	-71.39	-13.00	-58.39	H
255.0400	-62.13	1.87	5.65	-58.35	-13.00	-45.35	H
388.9000	-68.43	2.32	6	-64.75	-13.00	-51.75	H
486.8700	-77.74	2.66	5.69	-74.71	-13.00	-61.71	H
551.8600	-76.52	2.81	6.16	-73.17	-13.00	-60.17	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.11	1.29	-1.87	-70.27	-13.00	-57.27	V
210.4200	-76.16	1.69	5.44	-72.41	-13.00	-59.41	V
243.4000	-67.13	1.82	5.43	-63.52	-13.00	-50.52	V
355.9200	-76.23	2.25	5.74	-72.74	-13.00	-59.74	V
391.8100	-75.77	2.32	6	-72.09	-13.00	-59.09	V
554.7700	-80.96	2.82	6.11	-77.67	-13.00	-64.67	V
123.1200	-64.55	1.29	-1.87	-67.71	-13.00	-54.71	H
154.1600	-71.31	1.45	1.01	-71.75	-13.00	-58.75	H
255.0400	-62.45	1.87	5.65	-58.67	-13.00	-45.67	H
379.2000	-69.58	2.31	5.98	-65.91	-13.00	-52.91	H
461.6500	-77.21	2.6	5.86	-73.95	-13.00	-60.95	H
624.6100	-77.33	2.96	6.15	-74.14	-13.00	-61.14	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.25	1.29	-1.87	-70.41	-13.00	-57.41	V
152.2200	-71.87	1.44	0.87	-72.44	-13.00	-59.44	V
253.1000	-67.17	1.86	5.67	-63.36	-13.00	-50.36	V
405.3900	-76.38	2.42	5.94	-72.86	-13.00	-59.86	V
532.4600	-83.12	2.76	6.08	-79.80	-13.00	-66.80	V
682.8100	-81.98	3.1	6.5	-78.58	-13.00	-65.58	V
48.4300	-62.32	0.79	-5.83	-68.94	-13.00	-55.94	H
123.1200	-64.35	1.29	-1.87	-67.51	-13.00	-54.51	H
130.8800	-68.18	1.35	-1.3	-70.83	-13.00	-57.83	H
253.1000	-63.33	1.86	5.67	-59.52	-13.00	-46.52	H
386.9600	-69.93	2.32	6	-66.25	-13.00	-53.25	H
554.7700	-76.45	2.82	6.11	-73.16	-13.00	-60.16	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 2 / channel bandwidth: 10MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
40.6700	-58.45	0.73	-11.85	-71.03	-13.00	-58.03	V
123.1200	-67.35	1.29	-1.87	-70.51	-13.00	-57.51	V
240.4900	-69.21	1.81	5.34	-65.68	-13.00	-52.68	V
257.9500	-70.81	1.89	5.61	-67.09	-13.00	-54.09	V
356.8900	-76.16	2.26	5.73	-72.69	-13.00	-59.69	V
402.4800	-75.69	2.41	5.97	-72.13	-13.00	-59.13	V
48.4300	-62	0.79	-5.83	-68.62	-13.00	-55.62	H
123.1200	-63.53	1.29	-1.87	-66.69	-13.00	-53.69	H
155.1300	-70.11	1.45	1.08	-70.48	-13.00	-57.48	H
250.1900	-62.7	1.84	5.68	-58.86	-13.00	-45.86	H
396.6600	-69.49	2.36	5.99	-65.86	-13.00	-52.86	H
554.7700	-76.45	2.82	6.11	-73.16	-13.00	-60.16	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
41.6400	-59.5	0.74	-11.1	-71.34	-13.00	-58.34	V
118.2700	-69.55	1.26	-2.03	-72.84	-13.00	-59.84	V
154.1600	-72.42	1.45	1.01	-72.86	-13.00	-59.86	V
249.2200	-68.22	1.84	5.65	-64.41	-13.00	-51.41	V
356.8900	-77.26	2.26	5.73	-73.79	-13.00	-60.79	V
400.5400	-76.87	2.4	5.98	-73.29	-13.00	-60.29	V
123.1200	-63.97	1.29	-1.87	-67.13	-13.00	-54.13	H
253.1000	-61.79	1.86	5.67	-57.98	-13.00	-44.98	H
385.0200	-69.51	2.31	5.99	-65.83	-13.00	-52.83	H
550.8900	-76.64	2.81	6.17	-73.28	-13.00	-60.28	H
700.2700	-77.89	3.11	6.39	-74.61	-13.00	-61.61	H
769.1400	-75.89	3.27	6.39	-72.77	-13.00	-59.77	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
40.6700	-58.79	0.73	-11.85	-71.37	-13.00	-58.37	V
123.1200	-68.17	1.29	-1.87	-71.33	-13.00	-58.33	V
150.2800	-70.07	1.43	0.71	-70.79	-13.00	-57.79	V
252.1300	-67.75	1.85	5.68	-63.92	-13.00	-50.92	V
348.1600	-78.33	2.22	5.8	-74.75	-13.00	-61.75	V
412.1800	-75.87	2.45	5.89	-72.43	-13.00	-59.43	V
123.1200	-64.53	1.29	-1.87	-67.69	-13.00	-54.69	H
211.3900	-75.53	1.7	5.42	-71.81	-13.00	-58.81	H
252.1300	-62.91	1.85	5.68	-59.08	-13.00	-46.08	H
258.9200	-66.05	1.9	5.6	-62.35	-13.00	-49.35	H
391.8100	-69.13	2.32	6	-65.45	-13.00	-52.45	H
554.7700	-76.45	2.82	6.11	-73.16	-13.00	-60.16	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with "N/A" remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 20MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
41.6400	-59.57	0.74	-11.1	-71.41	-13.00	-58.41	V
123.1200	-68.63	1.29	-1.87	-71.79	-13.00	-58.79	V
152.2200	-71.43	1.44	0.87	-72.00	-13.00	-59.00	V
252.1300	-68.43	1.85	5.68	-64.60	-13.00	-51.60	V
355.9200	-77.35	2.25	5.74	-73.86	-13.00	-60.86	V
406.3600	-75.92	2.43	5.94	-72.41	-13.00	-59.41	V
123.1200	-64.67	1.29	-1.87	-67.83	-13.00	-54.83	H
255.0400	-63.73	1.87	5.65	-59.95	-13.00	-46.95	H
391.8100	-69.52	2.32	6	-65.84	-13.00	-52.84	H
553.8000	-77.34	2.82	6.13	-74.03	-13.00	-61.03	H
749.7400	-75.89	3.2	6.1	-72.99	-13.00	-59.99	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
110.5100	-70.96	1.21	-1.72	-73.89	-13.00	-60.89	V
150.2800	-70.35	1.43	0.71	-71.07	-13.00	-58.07	V
214.3000	-73.32	1.72	5.38	-69.66	-13.00	-56.66	V
255.0400	-68.31	1.87	5.65	-64.53	-13.00	-51.53	V
355.9200	-75.38	2.25	5.74	-71.89	-13.00	-58.89	V
400.5400	-76.17	2.4	5.98	-72.59	-13.00	-59.59	V
123.1200	-65.25	1.29	-1.87	-68.41	-13.00	-55.41	H
185.2000	-73.22	1.61	3.81	-71.02	-13.00	-58.02	H
217.2100	-72.89	1.74	5.35	-69.28	-13.00	-56.28	H
255.0400	-64.05	1.87	5.65	-60.27	-13.00	-47.27	H
375.3200	-71.99	2.31	5.91	-68.39	-13.00	-55.39	H
394.7200	-69.6	2.35	5.99	-65.96	-13.00	-52.96	H

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
123.1200	-67.97	1.29	-1.87	-71.13	-13.00	-58.13	V
154.1600	-71.88	1.45	1.01	-72.32	-13.00	-59.32	V
216.2400	-73.06	1.74	5.36	-69.44	-13.00	-56.44	V
253.1000	-68.77	1.86	5.67	-64.96	-13.00	-51.96	V
355.9200	-76.9	2.25	5.74	-73.41	-13.00	-60.41	V
401.5100	-74.98	2.4	5.98	-71.40	-13.00	-58.40	V
125.0600	-65.96	1.31	-1.75	-69.02	-13.00	-56.02	H
187.1400	-74.97	1.62	3.89	-72.70	-13.00	-59.70	H
252.1300	-63.86	1.85	5.68	-60.03	-13.00	-47.03	H
356.8900	-71.53	2.26	5.73	-68.06	-13.00	-55.06	H
380.1700	-69.8	2.31	5.98	-66.13	-13.00	-53.13	H
554.7700	-76.2	2.82	6.11	-72.91	-13.00	-59.91	H

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor*



Above 1GHz

LTE Band 5 / channel bandwidth: 5MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1658.000	-46.42	5.06	6.02	-45.46	-13.00	-32.46	V
3303.000	-49.15	7.46	8.31	-48.30	-13.00	-35.30	V
5998.000	-46.28	10.82	10.9	-46.20	-13.00	-33.20	V
N/A							
1658.000	-46.26	5.06	6.02	-45.30	-13.00	-32.30	H
3303.000	-51.3	7.46	8.31	-50.45	-13.00	-37.45	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-47.39	5.07	5.99	-46.47	-13.00	-33.47	V
3345.000	-53.52	7.51	8.44	-52.59	-13.00	-39.59	V
N/A							
1672.000	-48.1	5.07	5.99	-47.18	-13.00	-34.18	H
3345.000	-53.44	7.51	8.44	-52.51	-13.00	-39.51	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1663.000	-47.39	5.02	5.99	-46.45	-13.00	-33.47	V
3387.000	-53.52	7.55	8.44	-52.55	-13.00	-39.59	V
N/A							
1693.000	-45	5.1	5.95	-44.15	-13.00	-31.15	H
3380.000	-51.92	7.55	8.54	-50.93	-13.00	-37.93	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 5 / channel bandwidth: 10MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1658.000	-48.19	5.06	6.02	-47.23	-13.00	-34.23	V
3317.000	-50.35	7.48	8.35	-49.48	-13.00	-36.48	V
N/A							
1658.000	-42.06	5.06	6.02	-41.10	-13.00	-28.10	H
3317.000	-48.25	7.48	8.35	-47.38	-13.00	-34.38	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-48.31	5.07	5.99	-47.39	-13.00	-34.39	V
3345.000	-51.98	7.51	8.44	-51.05	-13.00	-38.05	V
N/A							
1672.000	-44.72	5.07	5.99	-43.80	-13.00	-30.80	H
3345.000	-52.16	7.51	8.44	-51.23	-13.00	-38.23	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1686.000	-46.22	5.09	5.97	-45.34	-13.00	-32.34	V
3373.000	-53.51	7.54	8.52	-52.53	-13.00	-39.53	V
N/A							
1686.000	-44.02	5.09	5.97	-43.14	-13.00	-30.14	H
3380.000	-51.5	7.55	8.54	-50.51	-13.00	-37.51	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 5MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-52.28	8.2	9.1	-51.38	-13.00	-38.38	V
5557.000	-48.15	10.08	10.81	-47.42	-13.00	-34.42	V
N/A							
3709.000	-53.01	8.21	9.11	-52.11	-13.00	-39.11	H
5060.000	-51.5	9.43	10.62	-50.31	-13.00	-37.31	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-51.77	8.23	9.16	-50.84	-13.00	-37.84	V
5648.000	-49.44	10.18	10.83	-48.79	-13.00	-35.79	V
N/A							
4262.000	-52.88	8.56	9.61	-51.83	-13.00	-38.83	H
6831.000	-48.78	11.37	11.7	-48.45	-13.00	-35.45	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3814.000	-48.41	8.28	9.21	-47.48	-13.00	-34.48	V
5725.000	-50.11	10.22	10.84	-49.49	-13.00	-36.49	V
N/A							
3814.000	-52.81	8.28	9.21	-51.88	-13.00	-38.88	H
4661.000	-52.45	9.13	10.06	-51.52	-13.00	-38.52	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 10MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4052.000	-52.97	8.41	9.44	-51.94	-13.00	-38.94	V
5557.000	-51.77	10.08	10.81	-51.04	-13.00	-38.04	V
N/A							
4087.000	-53.15	8.45	9.47	-52.13	-13.00	-39.13	H
4794.000	-52.12	9.31	10.27	-51.16	-13.00	-38.16	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4493.000	-54.11	8.89	9.79	-53.21	-13.00	-40.21	V
5641.000	-51.13	10.18	10.83	-50.48	-13.00	-37.48	V
N/A							
3800.000	-53.31	8.26	9.2	-52.37	-13.00	-39.37	H
4710.000	-52.68	9.15	10.14	-51.69	-13.00	-38.69	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3807.000	-51.2	8.27	9.21	-50.26	-13.00	-37.26	V
5536.000	-53.52	10.03	10.81	-52.74	-13.00	-39.74	V
N/A							
3807.000	-51.91	8.27	9.21	-50.97	-13.00	-37.97	H
5914.000	-51.39	10.46	10.88	-50.97	-13.00	-37.97	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 20MHz / QPSK

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4542.000	-53.39	9	9.87	-52.52	-13.00	-39.52	V
5256.000	-53.95	9.61	10.7	-52.86	-13.00	-39.86	V
N/A							
4255.000	-53.04	8.55	9.6	-51.99	-13.00	-38.99	H
6005.000	-51.2	10.82	10.9	-51.12	-13.00	-38.12	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3996.000	-54.04	8.35	9.4	-52.99	-13.00	-39.99	V
5109.000	-53.01	9.46	10.64	-51.83	-13.00	-38.83	V
N/A							
5123.000	-52.53	9.48	10.65	-51.36	-13.00	-38.36	H
7013.000	-45.84	11.58	11.92	-45.50	-13.00	-32.50	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3800.000	-53.26	8.26	9.2	-52.32	-13.00	-39.32	V
5228.000	-54.31	9.59	10.69	-53.21	-13.00	-40.21	V
N/A							
4479.000	-53	8.85	9.78	-52.07	-13.00	-39.07	H
5984.000	-51.84	10.76	10.9	-51.70	-13.00	-38.70	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 5 / channel bandwidth: 5MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1658.000	-46.72	5.06	6.02	-45.76	-13.00	-32.76	V
3303.000	-49.65	7.46	8.31	-48.80	-13.00	-35.80	V
N/A							
1651.000	-41.09	5.05	6.03	-40.11	-13.00	-27.11	H
3303.000	-47.87	7.46	8.31	-47.02	-13.00	-34.02	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-46.86	5.07	5.99	-45.94	-13.00	-32.94	V
3352.000	-53.84	7.52	8.46	-52.90	-13.00	-39.90	V
N/A							
1672.000	-48.94	5.07	5.99	-48.02	-13.00	-35.02	H
3345.000	-53.22	7.51	8.44	-52.29	-13.00	-39.29	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1693.000	-43.55	5.1	5.95	-42.70	-13.00	-29.70	V
5676.000	-46.5	10.17	10.84	-45.83	-13.00	-32.83	V
N/A							
1686.000	-44.17	5.09	5.97	-43.29	-13.00	-30.29	H
3387.000	-51.41	7.56	8.56	-50.41	-13.00	-37.41	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 5 / channel bandwidth: 10MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1665.000	-48.03	5.06	6	-47.09	-13.00	-34.09	V
3317.000	-52.22	7.48	8.35	-51.35	-13.00	-38.35	V
N/A							
1658.000	-42.38	5.06	6.02	-41.42	-13.00	-28.42	H
3317.000	-48.74	7.48	8.35	-47.87	-13.00	-34.87	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1672.000	-48.35	5.07	5.99	-47.43	-13.00	-34.43	V
3345.000	-53.05	7.51	8.44	-52.12	-13.00	-39.12	V
N/A							
1672.000	-45.53	5.07	5.99	-44.61	-13.00	-31.61	H
3345.000	-52.15	7.51	8.44	-51.22	-13.00	-38.22	H
N/A							

Remark:

- 3. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with “ N/A ” remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / High channel

Test Date: April 16, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
1686.000	-46.15	5.09	5.97	-45.27	-13.00	-32.27	V
3373.000	-52.97	7.54	8.52	-51.99	-13.00	-38.99	V
N/A							
1686.000	-44.81	5.09	5.97	-43.93	-13.00	-30.93	H
3373.000	-52.32	7.54	8.52	-51.34	-13.00	-38.34	H
N/A							

Remark:

- 3. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
- 4. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



LTE Band 2 / channel bandwidth: 5MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3702.000	-52.04	8.2	9.1	-51.14	-13.00	-38.14	V
5557.000	-49.28	10.08	10.81	-48.55	-13.00	-35.55	V
N/A							
4332.000	-52.88	8.61	9.67	-51.82	-13.00	-38.82	H
4997.000	-52.5	9.41	10.6	-51.31	-13.00	-38.31	H
N/A							

Remark:

1. *Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.*
2. *Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.*



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3758.000	-50.16	8.23	9.16	-49.23	-13.00	-36.23	V
5641.000	-49.48	10.18	10.83	-48.83	-13.00	-35.83	V
N/A							
3758.000	-53.21	8.23	9.16	-52.28	-13.00	-39.28	H
6124.000	-51.4	10.76	11	-51.16	-13.00	-38.16	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3814.000	-50.54	8.28	9.21	-49.61	-13.00	-36.61	V
5725.000	-49.12	10.22	10.84	-48.50	-13.00	-35.50	V
N/A							
3814.000	-52.72	8.28	9.21	-51.79	-13.00	-38.79	H
5053.000	-52.97	9.43	10.62	-51.78	-13.00	-38.78	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 10MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
5564.000	-51.71	10.1	10.81	-51.00	-13.00	-38.00	V
6922.000	-46.16	11.53	11.81	-45.88	-13.00	-32.88	V
N/A							
4199.000	-53.22	8.49	9.56	-52.15	-13.00	-39.15	H
5018.000	-53.11	9.42	10.61	-51.92	-13.00	-38.92	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4374.000	-53.43	8.63	9.7	-52.36	-13.00	-39.36	V
5641.000	-50.92	10.18	10.83	-50.27	-13.00	-37.27	V
N/A							
4668.000	-52.55	9.13	10.07	-51.61	-13.00	-38.61	H
5886.000	-51.99	10.4	10.88	-51.51	-13.00	-38.51	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3807.000	-51.89	8.27	9.21	-50.95	-13.00	-37.95	V
5718.000	-52.25	10.21	10.84	-51.62	-13.00	-38.62	V
N/A							
3814.000	-52.46	8.28	9.21	-51.53	-13.00	-38.53	H
4780.000	-52.63	9.28	10.25	-51.66	-13.00	-38.66	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



LTE Band 2 / channel bandwidth: 20MHz / 16QAM

Operation Mode: Tx / Low channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
4549.000	-53.12	9.02	9.88	-52.26	-13.00	-39.26	V
5263.000	-52.61	9.62	10.71	-51.52	-13.00	-38.52	V
N/A							
4276.000	-53.21	8.57	9.62	-52.16	-13.00	-39.16	H
5816.000	-51.47	10.42	10.86	-51.03	-13.00	-38.03	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin>20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / Middle channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3870.000	-54.08	8.35	9.27	-53.16	-13.00	-40.16	V
5102.000	-53.19	9.45	10.64	-52.00	-13.00	-39.00	V
N/A							
4500.000	-53.34	8.91	9.8	-52.45	-13.00	-39.45	H
5067.000	-52.75	9.44	10.63	-51.56	-13.00	-38.56	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.



Operation Mode: Tx / High channel

Test Date: March 22, 2014

Temperature: 26°C

Tested by: David Shu

Humidity: 60 % RH

Polarity: Ver. / Hor.

Frequency (MHz)	S.G. (dBm)	Cable loss (dB)	Ant.Gain (dBi)	Emission level (dBm)	Limit (dBm)	Margin (dB)	Antenna Polarization (V/H)
3807.000	-52.3	8.27	9.21	-51.36	-13.00	-38.36	V
4948.000	-54.24	9.33	10.52	-53.05	-13.00	-40.05	V
N/A							
3800.000	-52.77	8.26	9.2	-51.83	-13.00	-38.83	H
5130.000	-53.28	9.48	10.65	-52.11	-13.00	-39.11	H
N/A							

Remark:

1. Measuring frequencies from 1 GHz to the 10th harmonic of highest fundamental frequency.
2. Measurements above show only up to 6 maximum emissions noted, or would be lesser, with " N/A " remark, if no specific emissions from the EUT are recorded (ie: margin > 20dB from the applicable limit) and considered that's already beyond the background noise floor.