



FCC TEST REPORT and IC TEST REPORT

For

Tablet Computer

Model: TP00064B

Trade Name: Lenovo

Issued to

COMPAL ELECTRONICS INC

No.581, Ruiguang Rd., Neihu District, Taipei City 11492, Taiwan (R.O.C)

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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Revision History

Rev.	Issue Date	Revisions	Effect Page	Revised By
00	April 20, 2015	Initial Issue	ALL	Doris Chu



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1. TEST RESULT CERTIFICATION

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

Equipment Under Test: Tablet Computer

Trade Name: Lenovo

Model: TP00064B

Date of Test: March 26 ~ 30, 2015



FCC PART 27, SUBPART C, L, FCC PART 2	
OPERATING BAND: 704 - 716 MHz	
Standard	TEST TYPE AND LIMIT
2.1046 27.50(B)(10) & RSS-130 Issue 1 October 2013 4.4	Maximum Peak Output Power Limit: max. 3 watts e.r.p peak power
2.1055 27.54 & RSS-130 Issue 1 October 2013 4.3	Frequency Stability
2.1049 27.53(g) & RSS-130 Issue 1 October 2013 4.3	Occupied Bandwidth
27.50(d)(5)	Peak to average ratio
27.53(g)	Band Edge Measurements
2.1051 27.53(g) & RSS-130 Issue 1 October 2013 4.6	Conducted Spurious Emissions
2.1053 27.53(g) & RSS-130 Issue 1 October 2013 4.6	Radiated Spurious Emissions

OPERATING BAND: 2500 - 2570 MHz	
Standard	TEST TYPE AND LIMIT
2.1046 27.50(d)(4) & RSS-199 Issue 1 January 2010 4.4	Maximum Peak Output Power Limit: max. 1 watts e.i.r.p peak power
2.1055 27.54 & RSS-199 Issue 1 January 2010 4.3	Frequency Stability
2.1049 27.53(h) & RSS-199 Issue 1 January 2010 4.5	Occupied Bandwidth
27.50(d)(5)	Peak to average ratio
27.53(h)	Band Edge Measurements
2.1051 27.53(h) & RSS-199 Issue 1 January 2010 4.5	Conducted Spurious Emissions
2.1053 27.53(h) & RSS-199 Issue 1 January 2010 4.6	Radiated Spurious Emissions

Note: 1. The test result judgment is decided by the limit of test standard
2. The information of measurement uncertainty is available upon the customer's request.



Deviation from Applicable Standard
None

The above equipment has been tested by Compliance Certification Services Inc., and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Approved by

Reviewed by

Miller Lee
Manager
Compliance Certification Services Inc.

Angel Cheng
Section Manager
Compliance Certification Services Inc.



2. EUT DESCRIPTION

Product	Tablet Computer	
Model Number	TP00064B	
Model Discrepancy	N/A	
Trade	Lenovo	
WLAN Module	Sierra Wireless / EM7345	
Received Date	March 2, 2015	
Power Supply	Power form host device	
Modulation Technology	LTE Band 17	QPSK, 16QAM
	LTE Band 7	QPSK, 16QAM
Frequency Range	LTE Band 17 Channel Bandwidth: 5MHz	706.5MHz ~ 713.5MHz
	LTE Band 17 Channel Bandwidth: 10MHz	709MHz ~ 711MHz
	LTE Band 7 Channel Bandwidth: 5MHz	2502.5MHz ~ 2567.5MHz
	LTE Band 7 Channel Bandwidth: 10MHz	2505MHz ~ 2560MHz
	LTE Band 7 Channel Bandwidth: 20MHz	2510MHz ~ 2560MHz
Maximum ERP Power	LTE Band 17 Channel Bandwidth: 5MHz	QPSK: 11.66dBm 16QAM: 13.83dBm
	LTE Band 17 Channel Bandwidth: 10MHz	QPSK : 11.30dBm 16QAM: 12.79dBm
Maximum EIRP Power	LTE Band 7 Channel Bandwidth: 5MHz	QPSK: 21.68dBm 16QAM: 22.13dBm
	LTE Band 7 Channel Bandwidth: 10MHz	QPSK: 20.98dBm 16QAM: 21.18dBm
	LTE Band 7 Channel Bandwidth: 20MHz	QPSK: 20.42dBm 16QAM: 19.86dBm
Release	9	
Antenna Specification	TE Connectivity / DC33001MT00 LTE Band 7: -0.14dBi LTE Band 17: -1.63dBi	
Antenna Type	Monopole Antenna	

Note: 1. The above EUT information was declared by manufacturer and for more detailed features description, please refer to the manufacturer's specifications or User's Manual.



3. TEST METHODOLOGY

3.1 DESCRIPTION OF TEST TYPE

The EUT (model: TP00064B) had been tested under operating condition.

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

LTE Band 17: 704 MHz ~ 716 MHz

Three channels had been tested for each channel bandwidth.

Channel Bandwidth	5MHz		10MHz	
	Channel	Frequency(MHz)	Channel	Frequency(MHz)
Low channel (L)	23755	706.5	23780	709.0
Middle channel (M)	23790	710.0	23790	710.0
High channel (H)	23825	713.5	23800	711.0

LTE Band 7: 2500 MHz ~ 2570 MHz

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)	20775	2502.5	20800	2505	20850	2510
Middle channel (M)	21100	2535	21100	2535	21100	2535
High channel (H)	21425	2567.5	21400	2560	21350	2560

The field strength of spurious emission was measured in the following position: EUT stand-up position (Z axis), lie-down position (X, Y axis). The worst emission was found in stand-up position (Z axis) and the worst case was recorded.

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.

Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Spectrum Analyzer	Agilent	E4407B	MY44212686	03/17/2016
Pre-Amplifier	MITEQ	AFS44-00102650-42-10P-44	1042473	03/05/2015
Bilog Antenna	Sunol Sciences	JB3	A030205	08/18/2015
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
Spectrum Analyzer	ROHDE&SCHWARZ	FSV40	101073	07/09/2015
Horn Antenna	EMCO	3117	00055165	01/26/2016
Wideband Radio Communication Tester	ROHDE&SCHWARZ	CMW 500	116875	05/27/2015

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., Luchu Hsiang, Taoyuan Hsien 338, Taiwan

Tel: 886-3-324-0332 / Fax: 886-3-324-5235

The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.10: 2013 for IC, ANSI C63.10: 2009 for FCC 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.

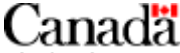
Conducted emissions are measured with Line Impedance Stabilization Networks and EMI Test Receivers.

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 TABLE OF ACCREDITATIONS AND LISTINGS

Country	Agency	Scope of Accreditation	Logo
USA	FCC	3M Semi Anechoic Chamber (FCC MRA: TW1309) to perform FCC Part 15 measurements	 FCC MRA: TW1309
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	 Testing Laboratory 1309
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 I 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. TEST PROCEDURE AND RESULT

7.1 OUTPUT POWER MEASUREMENT

LIMITS

Fixed, mobile, and portable (hand-held) stations operating in the 1710–1755 MHz band are limited to 1 watt EIRP.

Portable stations (hand-held devices) operating in the 698–746 MHz band are limited to 3 watts ERP

TEST PROCEDURES

EIRP / ERP MEASUREMENT:

1. The EUT was set up for the maximum power with LTE link data modulation. The power was measured with Spectrum Analyzer. All measurements were done at 3 channels (low, middle and high operational frequency range). RWB and VBW is 10MHz for LTE.
2. E.I.R.P power measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The “Read Value” is the spectrum reading the maximum power value.
3. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to “Read Value” of step a. Record the power level of S.G d. $EIRP = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$
4. $E.R.P = E.I.R.P - 2.15 \text{ dB}$

CONDUCTED POWER MEASUREMENT:

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

**TEST RESULTS****ERP POWER****LTE Band 17****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)
23755	708.0500	V	4.84	3.14	6.31	8.01	38.45	-30.44
	707.9000	H	8.49	3.14	6.31	*11.66	38.45	-26.79
23790	708.6500	V	4.52	3.14	6.3	7.68	38.45	-30.77
	710.1500	H	8.38	3.14	6.32	11.56	38.45	-26.89
23825	712.4000	V	6.76	3.15	6.36	9.97	38.45	-28.48
	711.8000	H	2.23	3.15	6.35	5.43	38.45	-33.02

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)
23755	708.2000	V	4.14	3.14	6.31	7.31	38.45	-31.14
	708.2000	H	9.59	3.14	6.31	12.76	38.45	-25.69
23790	710.3000	V	4.53	3.14	6.32	7.71	38.45	-30.74
	710.1500	H	9.82	3.14	6.32	13.00	38.45	-25.45
23825	712.1000	V	5.54	3.15	6.35	8.74	38.45	-29.71
	712.1000	H	10.63	3.15	6.35	*13.83	38.45	-24.62

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)
23780	708.8000	V	3.97	3.14	6.3	7.13	38.45	-31.32
	709.1000	H	8.09	3.14	6.3	11.25	38.45	-27.20
23790	710.0000	V	4.09	3.14	6.32	7.27	38.45	-31.18
	710.1500	H	7.95	3.14	6.32	11.13	38.45	-27.32
23800	708.9500	V	4.04	3.14	6.3	7.20	38.45	-31.25
	708.8000	H	8.14	3.14	6.3	*11.30	38.45	-27.15

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)
23780	708.8000	V	3.85	3.14	6.3	7.01	38.45	-31.44
	709.1000	H	9	3.14	6.3	12.16	38.45	-26.29
23790	710.0000	V	3.65	3.14	6.32	6.83	38.45	-31.62
	710.1500	H	9.61	3.14	6.32	*12.79	38.45	-25.66
23800	709.5500	V	3.81	3.14	6.31	6.98	38.45	-31.47
	709.4000	H	9.17	3.14	6.31	12.34	38.45	-26.11

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.



EIRP POWER

LTE Band 7

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)
20775	2501.240	V	19.75	6.35	6.1	19.50	33.00	-13.50
	2501.240	H	21.86	6.35	6.1	21.61	33.00	-11.39
21100	2536.280	V	18.87	6.4	6.19	18.66	33.00	-14.34
	2536.400	H	21.89	6.4	6.19	*21.68	33.00	-11.32
21425	2566.280	V	18.85	6.44	6.27	18.68	33.00	-14.32
	2565.680	H	21.5	6.44	6.27	21.33	33.00	-11.67

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)
20775	2502.440	V	19.94	6.35	6.11	19.70	33.00	-13.30
	2501.480	H	22.09	6.35	6.1	21.84	33.00	-11.16
21100	2536.400	V	19.07	6.4	6.19	18.86	33.00	-14.14
	2536.520	H	22.34	6.4	6.19	*22.13	33.00	-10.87
21425	2566.040	V	19.05	6.44	6.27	18.88	33.00	-14.12
	2567.840	H	21.84	6.44	6.28	21.68	33.00	-11.32

**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)
20800	2502.320	V	18.52	6.35	6.11	18.28	33.00	-14.72
	2507.360	H	20.52	6.36	6.12	20.28	33.00	-12.72
21100	2538.200	V	17.55	6.4	6.2	17.35	33.00	-15.65
	2538.440	H	20.66	6.4	6.2	20.46	33.00	-12.54
21400	2561.600	V	18.09	6.44	6.26	17.91	33.00	-15.09
	2561.120	H	21.16	6.44	6.26	*20.98	33.00	-12.02

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)
20800	2507.480	V	18.78	6.36	6.12	18.54	33.00	-14.46
	2501.600	H	21.12	6.35	6.1	20.87	33.00	-12.13
21100	2536.880	V	18.08	6.4	6.2	17.88	33.00	-15.12
	2537.240	H	20.85	6.4	6.2	20.65	33.00	-12.35
21400	2561.360	V	18.33	6.44	6.26	18.15	33.00	-14.85
	2562.320	H	21.36	6.44	6.26	*21.18	33.00	-11.82

**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)
20850	2502.560	V	17.64	6.35	6.11	17.40	33.00	-15.60
	2505.440	H	20.18	6.36	6.11	19.93	33.00	-13.07
21100	2542.160	V	17.38	6.41	6.21	17.18	33.00	-15.82
	2542.640	H	20.53	6.41	6.21	20.33	33.00	-12.67
21350	2555.480	V	17.16	6.43	6.24	16.97	33.00	-16.03
	2552.720	H	20.6	6.42	6.24	*20.42	33.00	-12.58

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)
20850	2509.280	V	17.77	6.36	6.12	17.53	33.00	-15.47
	2511.920	H	19.76	6.37	6.13	19.52	33.00	-13.48
21100	2541.440	V	16.47	6.41	6.21	16.27	33.00	-16.73
	2528.600	H	19.61	6.39	6.17	19.39	33.00	-13.61
21350	2555.120	V	17.14	6.43	6.24	16.95	33.00	-16.05
	2554.280	H	20.05	6.43	6.24	*19.86	33.00	-13.14

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 RADIATED EMISSION MEASUREMENT

LIMITS

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least $43 + 10 \log_{10}(P)$ dB. The limit of emission equal to -13 dBm

So the limit of emission is the same absolute specified line.

Limits	EQUIVALENT FIELD STRENGTH AT 3m (dBuV/m) (NOTE)
-13	82.22

NOTE: The following formula is used to convert the equipment radiated power to field strength.

$$E = [1000000 \sqrt{(30P)}] / 3 \text{ uV/m, where P is Watts}$$

TEST PROCEDURES

1. The EUT was placed on the top of a rotating table 0.8 meters above the ground. The table was rotated 360 degrees to determine the position of the highest radiation.
2. The EUT was set 3 meters away from the receiving antenna, which was mounted on antenna tower and its position at 0.8 m above the ground.
3. For each suspected emission, the EUT was arranged to its worst case and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading and recorded the value.
4. Repeat step 1 ~ 3 for horizontal polarization.

NOTE: The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

**TEST RESULTS****Below 1GHz****LTE Band 17 / CHANNEL BANDWIDTH: 5MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
127.9700	-72.67	1.33	-1.56	-75.56	-13.00	-62.56	V
230.7900	-84.44	1.8	5.4	-80.84	-13.00	-67.84	V
329.7300	-83.21	2.16	5.71	-79.66	-13.00	-66.66	V
402.4800	-73.62	2.41	5.97	-70.06	-13.00	-57.06	V
482.9900	-74.8	2.65	5.58	-71.87	-13.00	-58.87	V
600.3600	-75.65	2.9	6.4	-72.15	-13.00	-59.15	V
126.0300	-68.75	1.32	-1.69	-71.76	-13.00	-58.76	H
191.0200	-75.26	1.62	3.89	-72.99	-13.00	-59.99	H
407.3300	-73.58	2.43	5.93	-70.08	-13.00	-57.08	H
488.8100	-74.79	2.66	5.74	-71.71	-13.00	-58.71	H
600.3600	-70.39	2.9	6.4	-66.89	-13.00	-53.89	H
621.7000	-75.21	2.95	6.13	-72.03	-13.00	-59.03	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
128.9400	-73.63	1.34	-1.5	-76.47	-13.00	-63.47	V
216.2400	-84.45	1.74	5.36	-80.83	-13.00	-67.83	V
344.2800	-83.07	2.19	5.8	-79.46	-13.00	-66.46	V
423.8200	-76.17	2.47	5.8	-72.84	-13.00	-59.84	V
540.2200	-79.58	2.78	6.26	-76.10	-13.00	-63.10	V
646.9200	-79.29	3.02	6.23	-76.08	-13.00	-63.08	V
80.4400	-72.97	1.05	-0.09	-74.11	-13.00	-61.11	H
191.0200	-75.28	1.62	3.89	-73.01	-13.00	-60.01	H
353.0100	-76.19	2.24	5.77	-72.66	-13.00	-59.66	H
427.7000	-74.7	2.48	5.8	-71.38	-13.00	-58.38	H
486.8700	-73.93	2.66	5.69	-70.90	-13.00	-57.90	H
600.3600	-70.49	2.9	6.4	-66.99	-13.00	-53.99	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
128.9400	-73.78	1.34	-1.5	-76.62	-13.00	-63.62	V
216.2400	-82.34	1.74	5.36	-78.72	-13.00	-65.72	V
401.5100	-73.77	2.4	5.98	-70.19	-13.00	-57.19	V
500.4500	-73.65	2.7	5.9	-70.45	-13.00	-57.45	V
565.4400	-80.11	2.86	6.04	-76.93	-13.00	-63.93	V
600.3600	-75.97	2.9	6.4	-72.47	-13.00	-59.47	V
47.4600	-63.95	0.78	-6.58	-71.31	-13.00	-58.31	H
159.9800	-71.14	1.48	1.43	-71.19	-13.00	-58.19	H
307.4200	-78.63	2.12	5.75	-75.00	-13.00	-62.00	H
461.6500	-74.95	2.6	5.86	-71.69	-13.00	-58.69	H
492.6900	-75.23	2.68	5.82	-72.09	-13.00	-59.09	H
600.3600	-69.72	2.9	6.4	-66.22	-13.00	-53.22	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 17 / CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** March 26, 2015**Temperature:** 22°C **Tested by:** David Shu**Humidity:** 57% 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)
86.2600	-76.76	1.08	0.62	-77.22	-13.00	-64.22	V
171.6200	-74.51	1.57	2.69	-73.39	-13.00	-60.39	V
268.6200	-85.15	1.97	5.17	-81.95	-13.00	-68.95	V
397.6300	-77.53	2.37	5.99	-73.91	-13.00	-60.91	V
444.1900	-75.32	2.56	5.81	-72.07	-13.00	-59.07	V
486.8700	-76.56	2.66	5.69	-73.53	-13.00	-60.53	V
172.5900	-71.53	1.58	2.8	-70.31	-13.00	-57.31	H
216.2400	-78.3	1.74	5.36	-74.68	-13.00	-61.68	H
353.9800	-75.82	2.25	5.76	-72.31	-13.00	-59.31	H
402.4800	-72.58	2.41	5.97	-69.02	-13.00	-56.02	H
468.4400	-69.34	2.62	5.8	-66.16	-13.00	-53.16	H
600.3600	-72.02	2.9	6.4	-68.52	-13.00	-55.52	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
174.5300	-74.93	1.59	3	-73.52	-13.00	-60.52	V
198.7800	-82.83	1.63	3.05	-81.41	-13.00	-68.41	V
350.1000	-83.78	2.23	5.8	-80.21	-13.00	-67.21	V
388.9000	-77.7	2.32	6	-74.02	-13.00	-61.02	V
477.1700	-74.9	2.63	5.61	-71.92	-13.00	-58.92	V
600.3600	-80.69	2.9	6.4	-77.19	-13.00	-64.19	V
57.1600	-62.56	0.86	-2.8	-66.22	-13.00	-53.22	H
173.5600	-71.72	1.58	2.9	-70.40	-13.00	-57.40	H
326.8200	-80.59	2.17	5.71	-77.05	-13.00	-64.05	H
416.0600	-72.56	2.46	5.85	-69.17	-13.00	-56.17	H
461.6500	-69.34	2.6	5.86	-66.08	-13.00	-53.08	H
600.3600	-70.48	2.9	6.4	-66.98	-13.00	-53.98	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
171.6200	-74.11	1.57	2.69	-72.99	-13.00	-59.99	V
250.1900	-84.18	1.84	5.68	-80.34	-13.00	-67.34	V
358.8300	-82.22	2.27	5.71	-78.78	-13.00	-65.78	V
439.3400	-75.12	2.53	5.9	-71.75	-13.00	-58.75	V
473.2900	-74.13	2.62	5.7	-71.05	-13.00	-58.05	V
600.3600	-79.27	2.9	6.4	-75.77	-13.00	-62.77	V
57.1600	-63.2	0.86	-2.8	-66.86	-13.00	-53.86	H
171.6200	-71.15	1.57	2.69	-70.03	-13.00	-57.03	H
263.7700	-80.1	1.93	5.41	-76.62	-13.00	-63.62	H
356.8900	-76.71	2.26	5.73	-73.24	-13.00	-60.24	H
462.6200	-68.22	2.61	5.85	-64.98	-13.00	-51.98	H
600.3600	-72.1	2.9	6.4	-68.60	-13.00	-55.60	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 17 / CHANNEL BANDWIDTH: 5MHz / 16QAM**

Operation Mode: Tx / Low channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
159.0100	-74.31	1.48	1.36	-74.43	-13.00	-61.43	V
216.2400	-81.56	1.74	5.36	-77.94	-13.00	-64.94	V
334.5800	-83.08	2.16	5.75	-79.49	-13.00	-66.49	V
403.4500	-75.14	2.41	5.96	-71.59	-13.00	-58.59	V
482.0200	-77.21	2.64	5.55	-74.30	-13.00	-61.30	V
600.3600	-75.64	2.9	6.4	-72.14	-13.00	-59.14	V
128.9400	-68.05	1.34	-1.5	-70.89	-13.00	-57.89	H
191.0200	-74.76	1.62	3.89	-72.49	-13.00	-59.49	H
391.8100	-76.71	2.32	6	-73.03	-13.00	-60.03	H
404.4200	-74.48	2.42	5.95	-70.95	-13.00	-57.95	H
486.8700	-74.28	2.66	5.69	-71.25	-13.00	-58.25	H
600.3600	-74.47	2.9	6.4	-70.97	-13.00	-57.97	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
128.9400	-74.46	1.34	-1.5	-77.30	-13.00	-64.30	V
158.0400	-74.26	1.47	1.29	-74.44	-13.00	-61.44	V
268.6200	-84.05	1.97	5.17	-80.85	-13.00	-67.85	V
402.4800	-75.45	2.41	5.97	-71.89	-13.00	-58.89	V
486.8700	-77.31	2.66	5.69	-74.28	-13.00	-61.28	V
600.3600	-75.98	2.9	6.4	-72.48	-13.00	-59.48	V
128.9400	-68.39	1.34	-1.5	-71.23	-13.00	-58.23	H
236.6100	-78.04	1.81	5.37	-74.48	-13.00	-61.48	H
369.5000	-77.93	2.3	5.8	-74.43	-13.00	-61.43	H
416.0600	-73.94	2.46	5.85	-70.55	-13.00	-57.55	H
484.9300	-74.95	2.65	5.63	-71.97	-13.00	-58.97	H
600.3600	-73.03	2.9	6.4	-69.53	-13.00	-56.53	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
127.9700	-73.49	1.33	-1.56	-76.38	-13.00	-63.38	V
156.1000	-73.4	1.46	1.15	-73.71	-13.00	-60.71	V
342.3400	-81.48	2.18	5.8	-77.86	-13.00	-64.86	V
403.4500	-75.15	2.41	5.96	-71.60	-13.00	-58.60	V
482.0200	-77.13	2.64	5.55	-74.22	-13.00	-61.22	V
600.3600	-75.69	2.9	6.4	-72.19	-13.00	-59.19	V
127.0000	-67.95	1.32	-1.63	-70.90	-13.00	-57.90	H
191.0200	-75.35	1.62	3.89	-73.08	-13.00	-60.08	H
265.7100	-79.33	1.95	5.32	-75.96	-13.00	-62.96	H
404.4200	-73.31	2.42	5.95	-69.78	-13.00	-56.78	H
475.2300	-75	2.63	5.65	-71.98	-13.00	-58.98	H
600.3600	-71.08	2.9	6.4	-67.58	-13.00	-54.58	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.

**LTE Band 17 / CHANNEL BANDWIDTH: 10MHz / 16QAM**

Operation Mode: Tx / Low channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
129.9100	-75.03	1.34	-1.41	-77.78	-13.00	-64.78	V
158.0400	-74.39	1.47	1.29	-74.57	-13.00	-61.57	V
295.7800	-84.41	2.07	5.52	-80.96	-13.00	-67.96	V
405.3900	-75.44	2.42	5.94	-71.92	-13.00	-58.92	V
485.9000	-76.93	2.65	5.66	-73.92	-13.00	-60.92	V
620.7300	-79.79	2.94	6.12	-76.61	-13.00	-63.61	V
159.9800	-73.33	1.48	1.43	-73.38	-13.00	-60.38	H
191.0200	-75.89	1.62	3.89	-73.62	-13.00	-60.62	H
264.7400	-79.94	1.94	5.36	-76.52	-13.00	-63.52	H
402.4800	-73.53	2.41	5.97	-69.97	-13.00	-56.97	H
483.9600	-75.76	2.65	5.6	-72.81	-13.00	-59.81	H
600.3600	-70.62	2.9	6.4	-67.12	-13.00	-54.12	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
160.9500	-74.02	1.49	1.5	-74.01	-13.00	-61.01	V
216.2400	-82.82	1.74	5.36	-79.20	-13.00	-66.20	V
354.9500	-79.54	2.25	5.75	-76.04	-13.00	-63.04	V
399.5700	-75.37	2.39	5.98	-71.78	-13.00	-58.78	V
540.2200	-77.99	2.78	6.26	-74.51	-13.00	-61.51	V
600.3600	-76.19	2.9	6.4	-72.69	-13.00	-59.69	V
128.9400	-68.73	1.34	-1.5	-71.57	-13.00	-58.57	H
216.2400	-76.71	1.74	5.36	-73.09	-13.00	-60.09	H
306.4500	-79.64	2.12	5.73	-76.03	-13.00	-63.03	H
414.1200	-72.8	2.45	5.87	-69.38	-13.00	-56.38	H
485.9000	-74.07	2.65	5.66	-71.06	-13.00	-58.06	H
600.3600	-71.36	2.9	6.4	-67.86	-13.00	-54.86	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
159.0100	-72.66	1.48	1.36	-72.78	-13.00	-59.78	V
303.5400	-83.93	2.11	5.67	-80.37	-13.00	-67.37	V
366.5900	-80.23	2.29	5.77	-76.75	-13.00	-63.75	V
402.4800	-75.04	2.41	5.97	-71.48	-13.00	-58.48	V
600.3600	-78.57	2.9	6.4	-75.07	-13.00	-62.07	V
647.8900	-78.86	3.02	6.25	-75.63	-13.00	-62.63	V
130.8800	-68.23	1.35	-1.3	-70.88	-13.00	-57.88	H
216.2400	-77.84	1.74	5.36	-74.22	-13.00	-61.22	H
367.5600	-78.55	2.29	5.78	-75.06	-13.00	-62.06	H
415.0900	-73.99	2.45	5.86	-70.58	-13.00	-57.58	H
495.6000	-75.91	2.69	5.85	-72.75	-13.00	-59.75	H
600.3600	-70.51	2.9	6.4	-67.01	-13.00	-54.01	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 7 / CHANNEL BANDWIDTH: 5MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
127.9700	-76.39	1.33	-1.56	-79.28	-13.00	-66.28	V
204.6000	-84.25	1.65	4.2	-81.70	-13.00	-68.70	V
474.2600	-75.78	2.63	5.68	-72.73	-13.00	-59.73	V
680.8700	-81.29	3.09	6.5	-77.88	-13.00	-64.88	V
794.3600	-79.48	3.33	6.35	-76.46	-13.00	-63.46	V
885.5400	-78.07	3.48	6.7	-74.85	-13.00	-61.85	V
126.0300	-72.27	1.32	-1.69	-75.28	-13.00	-62.28	H
228.8500	-79.17	1.79	5.38	-75.58	-13.00	-62.58	H
415.0900	-77	2.45	5.86	-73.59	-13.00	-60.59	H
473.2900	-70.96	2.62	5.7	-67.88	-13.00	-54.88	H
708.0300	-77.27	3.14	6.31	-74.10	-13.00	-61.10	H
874.8700	-75.37	3.45	6.6	-72.22	-13.00	-59.22	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
159.9800	-76.5	1.48	1.43	-76.55	-13.00	-63.55	V
200.7200	-83.17	1.63	3.19	-81.61	-13.00	-68.61	V
478.1400	-75.33	2.63	5.59	-72.37	-13.00	-59.37	V
594.5400	-82.23	2.89	6.29	-78.83	-13.00	-65.83	V
749.7400	-76.88	3.2	6.1	-73.98	-13.00	-60.98	V
838.9800	-78.8	3.41	6.39	-75.82	-13.00	-62.82	V
114.3900	-73.84	1.24	-1.88	-76.96	-13.00	-63.96	H
244.3700	-79.4	1.82	5.47	-75.75	-13.00	-62.75	H
444.1900	-69.79	2.56	5.81	-66.54	-13.00	-53.54	H
635.2800	-76.5	2.99	6.17	-73.32	-13.00	-60.32	H
749.7400	-74.15	3.2	6.1	-71.25	-13.00	-58.25	H
925.3100	-73.21	3.59	6.5	-70.30	-13.00	-57.30	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 ackground noise floor.



Operation Mode: Tx / High channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
169.6800	-78.11	1.56	2.48	-77.19	-13.00	-64.19	V
328.7600	-85.22	2.16	5.71	-81.67	-13.00	-68.67	V
482.9900	-74.08	2.65	5.58	-71.15	-13.00	-58.15	V
622.6700	-81.3	2.95	6.14	-78.11	-13.00	-65.11	V
749.7400	-78.07	3.2	6.1	-75.17	-13.00	-62.17	V
815.7000	-79.44	3.37	6.2	-76.61	-13.00	-63.61	V
171.6200	-75.49	1.57	2.69	-74.37	-13.00	-61.37	H
247.2800	-81.33	1.83	5.57	-77.59	-13.00	-64.59	H
445.1600	-70.33	2.56	5.8	-67.09	-13.00	-54.09	H
609.0900	-77.43	2.94	6.31	-74.06	-13.00	-61.06	H
749.7400	-75.14	3.2	6.1	-72.24	-13.00	-59.24	H
808.9100	-76.36	3.34	6.27	-73.43	-13.00	-60.43	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 7 / CHANNEL BANDWIDTH: 10MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
171.6200	-77.23	1.57	2.69	-76.11	-13.00	-63.11	V
266.6800	-85.78	1.96	5.27	-82.47	-13.00	-69.47	V
398.6000	-77.88	2.38	5.98	-74.28	-13.00	-61.28	V
481.0500	-74.8	2.64	5.52	-71.92	-13.00	-58.92	V
647.8900	-81.34	3.02	6.25	-78.11	-13.00	-65.11	V
749.7400	-78.26	3.2	6.1	-75.36	-13.00	-62.36	V
126.0300	-72.64	1.32	-1.69	-75.65	-13.00	-62.65	H
241.4600	-80.22	1.81	5.36	-76.67	-13.00	-63.67	H
449.0400	-71.24	2.59	5.72	-68.11	-13.00	-55.11	H
583.8700	-77.82	2.89	6.08	-74.63	-13.00	-61.63	H
749.7400	-75.13	3.2	6.1	-72.23	-13.00	-59.23	H
900.0900	-75.17	3.52	6.61	-72.08	-13.00	-59.08	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
170.6500	-77.27	1.57	2.59	-76.25	-13.00	-63.25	V
314.2100	-85.27	2.15	5.74	-81.68	-13.00	-68.68	V
480.0800	-75.26	2.64	5.54	-72.36	-13.00	-59.36	V
622.6700	-80.46	2.95	6.14	-77.27	-13.00	-64.27	V
749.7400	-78.25	3.2	6.1	-75.35	-13.00	-62.35	V
807.9400	-78.78	3.34	6.3	-75.82	-13.00	-62.82	V
117.3000	-73.58	1.26	-1.99	-76.83	-13.00	-63.83	H
245.3400	-79.74	1.82	5.5	-76.06	-13.00	-63.06	H
409.2700	-77.33	2.44	5.91	-73.86	-13.00	-60.86	H
469.4100	-68.17	2.62	5.79	-65.00	-13.00	-52.00	H
657.5900	-77.55	3.05	6.3	-74.30	-13.00	-61.30	H
749.7400	-74.01	3.2	6.1	-71.11	-13.00	-58.11	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
127.0000	-75.54	1.32	-1.63	-78.49	-13.00	-65.49	V
172.5900	-78.19	1.58	2.8	-76.97	-13.00	-63.97	V
362.7100	-84.27	2.28	5.73	-80.82	-13.00	-67.82	V
477.1700	-74.92	2.63	5.61	-71.94	-13.00	-58.94	V
575.1400	-83.02	2.88	6.06	-79.84	-13.00	-66.84	V
749.7400	-77.87	3.2	6.1	-74.97	-13.00	-61.97	V
126.0300	-71.09	1.32	-1.69	-74.10	-13.00	-61.10	H
243.4000	-79.86	1.82	5.43	-76.25	-13.00	-63.25	H
441.2800	-70.38	2.54	5.87	-67.05	-13.00	-54.05	H
471.3500	-71.63	2.62	5.74	-68.51	-13.00	-55.51	H
630.4300	-76.99	2.98	6.19	-73.78	-13.00	-60.78	H
828.3100	-75.22	3.39	6.28	-72.33	-13.00	-59.33	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 7 / CHANNEL BANDWIDTH: 20MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
42.6100	-61.44	0.74	-10.34	-72.52	-13.00	-59.52	V
169.6800	-78.08	1.56	2.48	-77.16	-13.00	-64.16	V
331.6700	-84.92	2.16	5.72	-81.36	-13.00	-68.36	V
440.3100	-75.56	2.53	5.89	-72.20	-13.00	-59.20	V
481.0500	-75.52	2.64	5.52	-72.64	-13.00	-59.64	V
635.2800	-80.84	2.99	6.17	-77.66	-13.00	-64.66	V
126.0300	-70.39	1.32	-1.69	-73.40	-13.00	-60.40	H
241.4600	-80.32	1.81	5.36	-76.77	-13.00	-63.77	H
444.1900	-70.71	2.56	5.81	-67.46	-13.00	-54.46	H
577.0800	-78.24	2.88	6.04	-75.08	-13.00	-62.08	H
749.7400	-75.48	3.2	6.1	-72.58	-13.00	-59.58	H
882.6300	-75.25	3.47	6.7	-72.02	-13.00	-59.02	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.



Operation Mode: Tx / Middle channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
127.9700	-76.11	1.33	-1.56	-79.00	-13.00	-66.00	V
244.3700	-85.17	1.82	5.47	-81.52	-13.00	-68.52	V
446.1300	-78.37	2.57	5.78	-75.16	-13.00	-62.16	V
549.9200	-83.04	2.81	6.18	-79.67	-13.00	-66.67	V
749.7400	-77.87	3.2	6.1	-74.97	-13.00	-61.97	V
860.3200	-79.96	3.43	6.41	-76.98	-13.00	-63.98	V
171.6200	-70.63	1.57	2.69	-69.51	-13.00	-56.51	H
250.1900	-78.83	1.84	5.68	-74.99	-13.00	-61.99	H
446.1300	-68.98	2.57	5.78	-65.77	-13.00	-52.77	H
600.3600	-72.5	2.9	6.4	-69.00	-13.00	-56.00	H
749.7400	-73.63	3.2	6.1	-70.73	-13.00	-57.73	H
800.1800	-72.36	3.33	6.52	-69.17	-13.00	-56.17	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 / High channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
127.0000	-74.99	1.32	-1.63	-77.94	-13.00	-64.94	V
208.4800	-85.04	1.67	5.2	-81.51	-13.00	-68.51	V
439.3400	-78.11	2.53	5.9	-74.74	-13.00	-61.74	V
485.9000	-76.53	2.65	5.66	-73.52	-13.00	-60.52	V
695.4200	-81.15	3.12	6.44	-77.83	-13.00	-64.83	V
749.7400	-77.65	3.2	6.1	-74.75	-13.00	-61.75	V
173.5600	-72.41	1.58	2.9	-71.09	-13.00	-58.09	H
249.2200	-81.56	1.84	5.65	-77.75	-13.00	-64.75	H
473.2900	-75.65	2.62	5.7	-72.57	-13.00	-59.57	H
628.4900	-77.15	2.97	6.18	-73.94	-13.00	-60.94	H
736.1600	-76.69	3.2	6.23	-73.66	-13.00	-60.66	H
810.8500	-75.67	3.34	6.2	-72.81	-13.00	-59.81	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 7 / CHANNEL BANDWIDTH: 5MHz / 16QAM**

Operation Mode: Tx / Low channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
171.6200	-78.99	1.57	2.69	-77.87	-13.00	-64.87	V
321.0000	-84.37	2.18	5.7	-80.85	-13.00	-67.85	V
472.3200	-77.29	2.62	5.72	-74.19	-13.00	-61.19	V
563.5000	-81.47	2.85	6.02	-78.30	-13.00	-65.30	V
770.1100	-79.17	3.27	6.38	-76.06	-13.00	-63.06	V
861.2900	-78.73	3.43	6.42	-75.74	-13.00	-62.74	V
126.0300	-72.48	1.32	-1.69	-75.49	-13.00	-62.49	H
229.8200	-80.77	1.8	5.39	-77.18	-13.00	-64.18	H
462.6200	-70.75	2.61	5.85	-67.51	-13.00	-54.51	H
496.5700	-78.34	2.69	5.86	-75.17	-13.00	-62.17	H
641.1000	-77.1	3.01	6.12	-73.99	-13.00	-60.99	H
865.1700	-75.42	3.44	6.46	-72.40	-13.00	-59.40	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
170.6500	-77.57	1.57	2.59	-76.55	-13.00	-63.55	V
250.1900	-86.09	1.84	5.68	-82.25	-13.00	-69.25	V
441.2800	-75.27	2.54	5.87	-71.94	-13.00	-58.94	V
562.5300	-81.16	2.85	6.01	-78.00	-13.00	-65.00	V
749.7400	-77.87	3.2	6.1	-74.97	-13.00	-61.97	V
874.8700	-79.06	3.45	6.6	-75.91	-13.00	-62.91	V
126.0300	-71.26	1.32	-1.69	-74.27	-13.00	-61.27	H
216.2400	-79.91	1.74	5.36	-76.29	-13.00	-63.29	H
372.4100	-79.85	2.3	5.85	-76.30	-13.00	-63.30	H
462.6200	-71.13	2.61	5.85	-67.89	-13.00	-54.89	H
642.0700	-77.12	3.01	6.14	-73.99	-13.00	-60.99	H
782.7200	-76.03	3.31	6.14	-73.20	-13.00	-60.20	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 ackground noise floor.



Operation Mode: Tx / High channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
170.6500	-77.56	1.57	2.59	-76.54	-13.00	-63.54	V
308.3900	-84.35	2.13	5.77	-80.71	-13.00	-67.71	V
473.2900	-73.56	2.62	5.7	-70.48	-13.00	-57.48	V
553.8000	-80.71	2.82	6.13	-77.40	-13.00	-64.40	V
689.6000	-81.3	3.13	6.5	-77.93	-13.00	-64.93	V
749.7400	-77.59	3.2	6.1	-74.69	-13.00	-61.69	V
126.0300	-71.89	1.32	-1.69	-74.90	-13.00	-61.90	H
265.7100	-79.63	1.95	5.32	-76.26	-13.00	-63.26	H
474.2600	-71.7	2.63	5.68	-68.65	-13.00	-55.65	H
598.4200	-77.43	2.9	6.37	-73.96	-13.00	-60.96	H
770.1100	-75.86	3.27	6.38	-72.75	-13.00	-59.75	H
873.9000	-74.43	3.45	6.58	-71.30	-13.00	-58.30	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.

**LTE Band 7 / CHANNEL BANDWIDTH: 10MHz / 16QAM**

Operation Mode: Tx / Low channel **Test Date:** March 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
47.4600	-71.59	0.78	-6.58	-78.95	-13.00	-65.95	V
172.5900	-77.73	1.58	2.8	-76.51	-13.00	-63.51	V
311.3000	-86.04	2.14	5.76	-82.42	-13.00	-69.42	V
478.1400	-75.63	2.63	5.59	-72.67	-13.00	-59.67	V
576.1100	-82.24	2.88	6.05	-79.07	-13.00	-66.07	V
773.0200	-79.74	3.28	6.29	-76.73	-13.00	-63.73	V
126.0300	-71.39	1.32	-1.69	-74.40	-13.00	-61.40	H
245.3400	-78.85	1.82	5.5	-75.17	-13.00	-62.17	H
417.0300	-76.93	2.46	5.84	-73.55	-13.00	-60.55	H
462.6200	-69.9	2.61	5.85	-66.66	-13.00	-53.66	H
549.9200	-77.74	2.81	6.18	-74.37	-13.00	-61.37	H
692.5100	-76.33	3.12	6.47	-72.98	-13.00	-59.98	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
167.7400	-77.22	1.55	2.26	-76.51	-13.00	-63.51	V
270.5600	-85.11	1.98	5.11	-81.98	-13.00	-68.98	V
481.0500	-75.68	2.64	5.52	-72.80	-13.00	-59.80	V
642.0700	-81.46	3.01	6.14	-78.33	-13.00	-65.33	V
785.6300	-79.16	3.32	6.17	-76.31	-13.00	-63.31	V
924.3400	-78.48	3.59	6.51	-75.56	-13.00	-62.56	V
116.3300	-73.25	1.25	-1.95	-76.45	-13.00	-63.45	H
191.0200	-77.07	1.62	3.89	-74.80	-13.00	-61.80	H
462.6200	-69.13	2.61	5.85	-65.89	-13.00	-52.89	H
585.8100	-76.31	2.89	6.11	-73.09	-13.00	-60.09	H
749.7400	-73.43	3.2	6.1	-70.53	-13.00	-57.53	H
913.6700	-73.4	3.57	6.6	-70.37	-13.00	-57.37	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
168.7100	-77.49	1.55	2.37	-76.67	-13.00	-63.67	V
244.3700	-85.74	1.82	5.47	-82.09	-13.00	-69.09	V
475.2300	-75.14	2.63	5.65	-72.12	-13.00	-59.12	V
633.3400	-81.5	2.99	6.18	-78.31	-13.00	-65.31	V
749.7400	-76.28	3.2	6.1	-73.38	-13.00	-60.38	V
774.9600	-78.61	3.29	6.24	-75.66	-13.00	-62.66	V
128.9400	-70.83	1.34	-1.5	-73.67	-13.00	-60.67	H
244.3700	-77.89	1.82	5.47	-74.24	-13.00	-61.24	H
444.1900	-70.38	2.56	5.81	-67.13	-13.00	-54.13	H
577.0800	-78.43	2.88	6.04	-75.27	-13.00	-62.27	H
657.5900	-77.52	3.05	6.3	-74.27	-13.00	-61.27	H
793.3900	-74.73	3.33	6.33	-71.73	-13.00	-58.73	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 7 / CHANNEL BANDWIDTH: 20MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 26, 2015**Temperature:** 22°C **Tested by:** David Shu**Humidity:** 57% 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)
171.6200	-78.74	1.57	2.69	-77.62	-13.00	-64.62	V
346.2200	-85.48	2.21	5.8	-81.89	-13.00	-68.89	V
480.0800	-75	2.64	5.54	-72.10	-13.00	-59.10	V
663.4100	-80.45	3.06	6.3	-77.21	-13.00	-64.21	V
749.7400	-77.59	3.2	6.1	-74.69	-13.00	-61.69	V
762.3500	-78.87	3.23	6.32	-75.78	-13.00	-62.78	V
57.1600	-69.09	0.86	-2.8	-72.75	-13.00	-59.75	H
245.3400	-78.52	1.82	5.5	-74.84	-13.00	-61.84	H
466.5000	-67.95	2.61	5.82	-64.74	-13.00	-51.74	H
640.1300	-77.45	3.01	6.13	-74.33	-13.00	-61.33	H
749.7400	-75.24	3.2	6.1	-72.34	-13.00	-59.34	H
826.3700	-74.99	3.39	6.26	-72.12	-13.00	-59.12	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
43.5800	-60.52	0.75	-9.59	-70.86	-13.00	-57.86	V
171.6200	-73.72	1.57	2.69	-72.60	-13.00	-59.60	V
323.9100	-84.04	2.17	5.7	-80.51	-13.00	-67.51	V
481.0500	-73.21	2.64	5.52	-70.33	-13.00	-57.33	V
749.7400	-74	3.2	6.1	-71.10	-13.00	-58.10	V
910.7600	-73.31	3.57	6.6	-70.28	-13.00	-57.28	V
126.0300	-72.16	1.32	-1.69	-75.17	-13.00	-62.17	H
171.6200	-73.54	1.57	2.69	-72.42	-13.00	-59.42	H
367.5600	-79.47	2.29	5.78	-75.98	-13.00	-62.98	H
462.6200	-69.9	2.61	5.85	-66.66	-13.00	-53.66	H
646.9200	-75.58	3.02	6.23	-72.37	-13.00	-59.37	H
749.7400	-73.77	3.2	6.1	-70.87	-13.00	-57.87	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 26, 2015
Temperature: 22°C **Tested by:** David Shu
Humidity: 57% 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)
172.5900	-78.41	1.58	2.8	-77.19	-13.00	-64.19	V
243.4000	-86.24	1.82	5.43	-82.63	-13.00	-69.63	V
474.2600	-75.19	2.63	5.68	-72.14	-13.00	-59.14	V
576.1100	-82.39	2.88	6.05	-79.22	-13.00	-66.22	V
749.7400	-79.39	3.2	6.1	-76.49	-13.00	-63.49	V
852.5600	-79.75	3.41	6.4	-76.76	-13.00	-63.76	V
173.5600	-75.23	1.58	2.9	-73.91	-13.00	-60.91	H
360.7700	-77.91	2.27	5.71	-74.47	-13.00	-61.47	H
450.9800	-70	2.59	5.74	-66.85	-13.00	-53.85	H
573.2000	-77.66	2.88	6.08	-74.46	-13.00	-61.46	H
654.6800	-77.93	3.04	6.3	-74.67	-13.00	-61.67	H
814.7300	-74.07	3.36	6.2	-71.23	-13.00	-58.23	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 17 / CHANNEL BANDWIDTH: 5MHz / QPSK**

Operation Mode: Tx / Low channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2827.000	-50.02	6.9	6.95	-49.97	-13.00	-36.97	V
4493.000	-51.54	8.89	9.79	-50.64	-13.00	-37.64	V
N/A							
2820.000	-44.89	6.88	6.93	-44.84	-13.00	-31.84	H
4584.000	-50.82	9.09	9.93	-49.98	-13.00	-36.98	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2848.000	-51.45	6.97	7	-51.42	-13.00	-38.42	V
5116.000	-51.88	9.47	10.65	-50.70	-13.00	-37.70	V
N/A							
2848.000	-44.88	6.97	7	-44.85	-13.00	-31.85	H
4773.000	-50.35	9.27	10.24	-49.38	-13.00	-36.38	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 / High channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2855.000	-45.11	7	7.02	-45.09	-13.00	-32.09	V
5109.000	-51.53	9.46	10.64	-50.35	-13.00	-37.35	V
N/A							
2855.000	-40.4	7	7.02	-40.38	-13.00	-27.38	H
5382.000	-50.43	9.79	10.75	-49.47	-13.00	-36.47	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 17 / CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
2834.000	-51.51	6.93	6.97	-51.47	-13.00	-38.47	V
5529.000	-51.54	10.01	10.81	-50.74	-13.00	-37.74	V
N/A							
2848.000	-46.57	6.97	7	-46.54	-13.00	-33.54	H
4675.000	-50.51	9.13	10.08	-49.56	-13.00	-36.56	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 / Middle channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2841.000	-49.78	6.95	6.99	-49.74	-13.00	-36.74	V
4990.000	-51.66	9.39	10.58	-50.47	-13.00	-37.47	V
N/A							
2848.000	-44.62	6.97	7	-44.59	-13.00	-31.59	H
5130.000	-50.93	9.48	10.65	-49.76	-13.00	-36.76	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2841.000	-50.07	6.95	6.99	-50.03	-13.00	-37.03	V
4367.000	-51.49	8.63	9.69	-50.43	-13.00	-37.43	V
N/A							
2841.000	-44.88	6.95	6.99	-44.84	-13.00	-31.84	H
5039.000	-50.85	9.43	10.62	-49.66	-13.00	-36.66	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 17 / CHANNEL BANDWIDTH: 5MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
2820.000	-50.79	6.88	6.93	-50.74	-13.00	-37.74	V
4766.000	-51.06	9.26	10.23	-50.09	-13.00	-37.09	V
N/A							
2820.000	-44.51	6.88	6.93	-44.46	-13.00	-31.46	H
4430.000	-50.89	8.72	9.74	-49.87	-13.00	-36.87	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:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2848.000	-51.09	6.97	7	-51.06	-13.00	-38.06	V
5179.000	-52.12	9.54	10.67	-50.99	-13.00	-37.99	V
N/A							
2841.000	-45.04	6.95	6.99	-45.00	-13.00	-32.00	H
4297.000	-50.56	8.6	9.64	-49.52	-13.00	-36.52	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.



Operation Mode: Tx / High channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2855.000	-45.5	7	7.02	-45.48	-13.00	-32.48	V
5039.000	-51.22	9.43	10.62	-50.03	-13.00	-37.03	V
N/A							
2855.000	-41.17	7	7.02	-41.15	-13.00	-28.15	H
4976.000	-50.86	9.37	10.56	-49.67	-13.00	-36.67	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 17 / CHANNEL BANDWIDTH: 10MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
2834.000	-50.34	6.93	6.97	-50.30	-13.00	-37.30	V
3891.000	-51.57	8.38	9.29	-50.66	-13.00	-37.66	V
N/A							
2834.000	-47.19	6.93	6.97	-47.15	-13.00	-34.15	H
4682.000	-50.55	9.13	10.09	-49.59	-13.00	-36.59	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2848.000	-51.39	6.97	7	-51.36	-13.00	-38.36	V
4262.000	-51.52	8.56	9.61	-50.47	-13.00	-37.47	V
N/A							
2841.000	-45.81	6.95	6.99	-45.77	-13.00	-32.77	H
4815.000	-50.97	9.31	10.3	-49.98	-13.00	-36.98	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
2855.000	-50.6	7	7.02	-50.58	-13.00	-37.58	V
5452.000	-51.41	9.88	10.78	-50.51	-13.00	-37.51	V
N/A							
2855.000	-44.58	7	7.02	-44.56	-13.00	-31.56	H
4500.000	-50.85	8.91	9.8	-49.96	-13.00	-36.96	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 7 / CHANNEL BANDWIDTH: 5MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5130.000	-40.24	9.48	10.65	-39.07	-13.00	-26.07	V
6985.000	-45.59	11.54	11.88	-45.25	-13.00	-32.25	V
N/A							
5137.000	-33.77	9.49	10.65	-32.61	-13.00	-19.61	H
7006.000	-44.95	11.56	11.91	-44.60	-13.00	-31.60	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5004.000	-37.31	9.41	10.6	-36.12	-13.00	-23.12	V
7286.000	-45.11	12.01	12.36	-44.76	-13.00	-31.76	V
N/A							
5004.000	-36.6	9.41	10.6	-35.41	-13.00	-22.41	H
7510.000	-39.81	12.25	12.71	-39.35	-13.00	-26.35	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5074.000	-30.06	9.44	10.63	-28.87	-13.00	-15.87	V
7608.000	-41.13	12.15	12.81	-40.47	-13.00	-27.47	V
N/A							
5074.000	-32.28	9.44	10.63	-31.09	-13.00	-18.09	H
7608.000	-39	12.15	12.81	-38.34	-13.00	-25.34	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 7 / CHANNEL BANDWIDTH: 10MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5018.000	-39.28	9.42	10.61	-38.09	-13.00	-25.09	V
6705.000	-47.2	11.3	11.55	-46.95	-13.00	-33.95	V
N/A							
5011.000	-38.89	9.41	10.6	-37.70	-13.00	-24.70	H
6964.000	-45.34	11.54	11.86	-45.02	-13.00	-32.02	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:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5067.000	-34.9	9.44	10.63	-33.71	-13.00	-20.71	V
6950.000	-46.03	11.54	11.84	-45.73	-13.00	-32.73	V
N/A							
5067.000	-35.94	9.44	10.63	-34.75	-13.00	-21.75	H
6985.000	-45.42	11.54	11.88	-45.08	-13.00	-32.08	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5130.000	-39.8	9.48	10.65	-38.63	-13.00	-25.63	V
7559.000	-43.17	12.18	12.76	-42.59	-13.00	-29.59	V
N/A							
5130.000	-36.41	9.48	10.65	-35.24	-13.00	-22.24	H
6992.000	-44.76	11.54	11.89	-44.41	-13.00	-31.41	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 7 / CHANNEL BANDWIDTH: 20MHz / QPSK****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5018.000	-40.55	9.42	10.61	-39.36	-13.00	-26.36	V
7188.000	-45.28	11.85	12.2	-44.93	-13.00	-31.93	V
N/A							
5004.000	-40.38	9.41	10.6	-39.19	-13.00	-26.19	H
7307.000	-42.91	12.04	12.39	-42.56	-13.00	-29.56	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 / Middle channel **Test Date:** March 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5074.000	-38.55	9.44	10.63	-37.36	-13.00	-24.36	V
6957.000	-45.81	11.54	11.85	-45.50	-13.00	-32.50	V
N/A							
5074.000	-39.06	9.44	10.63	-37.87	-13.00	-24.87	H
7174.000	-44.29	11.85	12.18	-43.96	-13.00	-30.96	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
4598.000	-51.25	9.13	9.96	-50.42	-13.00	-37.42	V
5109.000	-38.31	9.46	10.64	-37.13	-13.00	-24.13	V
N/A							
5109.000	-40.22	9.46	10.64	-39.04	-13.00	-26.04	H
7342.000	-43.43	12.06	12.45	-43.04	-13.00	-30.04	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 7 / CHANNEL BANDWIDTH: 5MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5137.000	-41.21	9.49	10.65	-40.05	-13.00	-27.05	V
7020.000	-45.78	11.6	11.93	-45.45	-13.00	-32.45	V
N/A							
5137.000	-35.25	9.49	10.65	-34.09	-13.00	-21.09	H
7328.000	-43.2	12.05	12.42	-42.83	-13.00	-29.83	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5004.000	-36.3	9.41	10.6	-35.11	-13.00	-22.11	V
6943.000	-46.23	11.53	11.83	-45.93	-13.00	-32.93	V
N/A							
5004.000	-34.73	9.41	10.6	-33.54	-13.00	-20.54	H
7503.000	-39.03	12.27	12.7	-38.60	-13.00	-25.60	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5074.000	-30.67	9.44	10.63	-29.48	-13.00	-16.48	V
7041.000	-45.5	11.66	11.97	-45.19	-13.00	-32.19	V
N/A							
5074.000	-31.9	9.44	10.63	-30.71	-13.00	-17.71	H
7601.000	-39.98	12.12	12.8	-39.30	-13.00	-26.30	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 7 / CHANNEL BANDWIDTH: 10MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5018.000	-37.64	9.42	10.61	-36.45	-13.00	-23.45	V
7454.000	-43.47	12.19	12.63	-43.03	-13.00	-30.03	V
N/A							
5011.000	-38.79	9.41	10.6	-37.60	-13.00	-24.60	H
7216.000	-44.12	11.88	12.25	-43.75	-13.00	-30.75	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5074.000	-35.48	9.44	10.63	-34.29	-13.00	-21.29	V
7020.000	-45.14	11.6	11.93	-44.81	-13.00	-31.81	V
N/A							
5074.000	-34.74	9.44	10.63	-33.55	-13.00	-20.55	H
6565.000	-46.7	11.16	11.38	-46.48	-13.00	-33.48	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5130.000	-40.74	9.48	10.65	-39.57	-13.00	-26.57	V
6810.000	-46.86	11.32	11.67	-46.51	-13.00	-33.51	V
N/A							
5130.000	-37.31	9.48	10.65	-36.14	-13.00	-23.14	H
6964.000	-44.71	11.54	11.86	-44.39	-13.00	-31.39	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 7 / CHANNEL BANDWIDTH: 20MHz / 16QAM****Operation Mode:** Tx / Low channel **Test Date:** March 30, 2015**Temperature:** 23°C **Tested by:** David Shu**Humidity:** 63% 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)
5018.000	-40.53	9.42	10.61	-39.34	-13.00	-26.34	V
6628.000	-47.31	11.25	11.45	-47.11	-13.00	-34.11	V
N/A							
5018.000	-41.1	9.42	10.61	-39.91	-13.00	-26.91	H
7559.000	-42.95	12.18	12.76	-42.37	-13.00	-29.37	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5081.000	-39.22	9.44	10.63	-38.03	-13.00	-25.03	V
7405.000	-43.84	12.1	12.55	-43.39	-13.00	-30.39	V
N/A							
5074.000	-39.35	9.44	10.63	-38.16	-13.00	-25.16	H
6971.000	-44.02	11.54	11.87	-43.69	-13.00	-30.69	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 30, 2015
Temperature: 23°C **Tested by:** David Shu
Humidity: 63% 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)
5109.000	-39.16	9.46	10.64	-37.98	-13.00	-24.98	V
7090.000	-45.81	11.81	12.04	-45.58	-13.00	-32.58	V
N/A							
5109.000	-39.36	9.46	10.64	-38.18	-13.00	-25.18	H
7027.000	-44.63	11.62	11.94	-44.31	-13.00	-31.31	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.