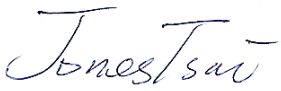
FCC RF Test Report

APPLICANT	: Xplore Technologies Corp.
EQUIPMENT	: Wireless Modules
BRAND NAME	: Xplore Technologies
MODEL NAME	: EM7355
FCC ID	: Q2GEM7355B
STANDARD	: 47 CFR Part 2, 22(H), 24(E), 27
CLASSIFICATION	: PCS Licensed Transmitter (PCB)

This is a partial report which is included the radiated test items. The product was received on Feb. 02, 2015 and completely tested on Mar. 05, 2015. We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA / EIA-603-C-2004 and the testing has shown the tested sample to be in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC., the test report shall not be reproduced except in full.

Reviewed by: Joseph Lin / Supervisor



Approved by: Jones Tsai / Manager

SPORTON INTERNATIONAL INC.
No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C.

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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FG520236B	Rev. 01	Initial issue of report	Mar. 27, 2015

SUMMARY OF TEST RESULT

Report Section	FCC Rule	IC Rule	Description	Limit	Result	Remark
3.4	§2.1053 §22.917(a) §24.238(a) §27.53(c)(2) §27.53(f) §27.53(g) §27.53(h)	RSS-GEN(4.9) RSS-132 (5.5) RSS-133 (6.5.1) RSS-130(4.6) RSS-139 (6.5)	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 13) (Band 17) (Band 25)	< $43+10\log_{10}(P[Watts])$	PASS	Under limit 15.82 dB at 1560.000 MHz

1 General Description

1.1 Applicant

Xplore Technologies Corp.
14000 Summit Road Suite 900, Austin, Texas, 78728 USA

1.2 Manufacturer

Sierra Wireless Inc.
13811, Wireless Way, Richmond, British Columbia, Canada

1.3 Product Feature of Equipment Under Test

Product Feature	
Equipment	Wireless Modules
Brand Name	Xplore Technologies
Model Name	EM7355
FCC ID	Q2GEM7355B
Integrated the Rugged Tablet PC	Brand Name : Xplore Technologies Corp Model Number : iX101B2
EUT supports Radios application	CDMA/EV-DO/GSM/EGPRS/WCDMA/HSPA/LTE
EUT Stage	Production Unit

1.4 Product Specification subjective to this standard

Product Specification subjective to this standard	
Tx Frequency	LTE Band 2 : 1850.7 MHz ~ 1909.3 MHz LTE Band 4 : 1710.7 MHz ~ 1754.3 MHz LTE Band 5 : 824.7 MHz ~ 848.3 MHz LTE Band 13 : 779.5 MHz ~ 784.5 MHz LTE Band 17 : 706.5 MHz ~ 713.5 MHz LTE Band 25 : 1850.7MHz ~ 1914.3 MHz
Rx Frequency	LTE Band 2 : 1930.7 MHz ~ 1989.3 MHz LTE Band 4 : 2110.7 MHz ~ 2154.3 MHz LTE Band 5 : 869.7 MHz ~ 893.3 MHz LTE Band 13 : 748.5 MHz ~ 753.5 MHz LTE Band 17 : 736.5 MHz ~ 743.5 MHz LTE Band 25 : 1930.7MHz ~ 1994.3 MHz
Bandwidth	LTE Band 2 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 4 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz LTE Band 5 : 1.4MHz / 3MHz / 5MHz / 10MHz LTE Band 13 : 5MHz / 10MHz LTE Band 17 : 5MHz / 10MHz LTE Band 25 : 1.4MHz / 3MHz / 5MHz / 10MHz / 15MHz / 20MHz
Maximum Output Power to Antenna	LTE Band 2 : 23.12 dBm LTE Band 4 : 22.98 dBm LTE Band 5 : 22.81 dBm LTE Band 13 : 22.83 dBm LTE Band 17 : 22.62 dBm LTE Band 25 : 23.09 dBm
Antenna Type	PIFA Antenna
Type of Modulation	QPSK / 16QAM

1.5 Modification of EUT

No modifications are made to the EUT during all test items.

1.6 Testing Location

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code : 1190) and the FCC designation No. TW1022 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC Test.

Test Site	SPORTON INTERNATIONAL INC.	
Test Site Location	No. 52, Hwa Ya 1st Rd., Hwa Ya Technology Park, Kwei-Shan District, Tao Yuan City, Taiwan, R.O.C. TEL: +886-3-327-3456 FAX: +886-3-328-4978	
Test Site No.	**Sporton Site No.**	
	TH02-HY	03CH07-HY

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 2, 22(H), 24(E), 27
- ANSI / TIA / EIA-603-C-2004
- FCC KDB 971168 D01 Power Meas. License Digital Systems v02r02
- FCC KDB 412172 D01 Determining ERP and EIRP v01

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.

2 Test Configuration of Equipment Under Test

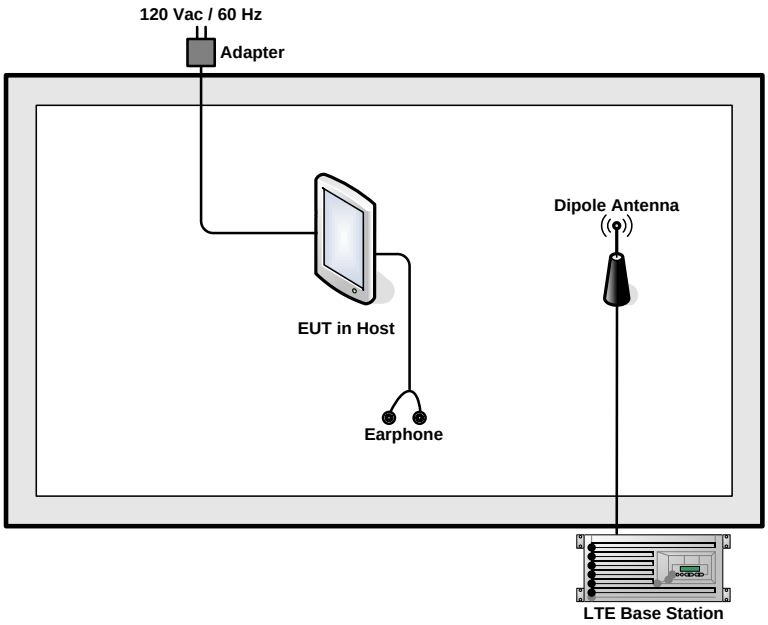
2.1 Test Mode

Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v02r02 with maximum output power.

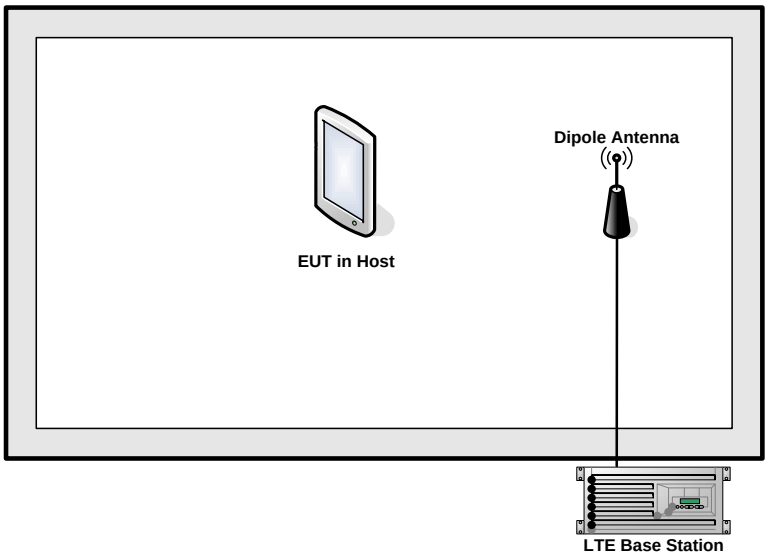
Test Items	Band	Bandwidth (MHz)						Modulation		RB #			Test Channel		
		1.4	3	5	10	15	20	QPSK	16QAM	1	Half	Full	L	M	H
Max. Output Power	2	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	4	v	v	v	v	v	v	v	v	v	v	v	v	v	v
	5	v	v	v	v	-	-	v	v	v	v	v	v	v	v
	13	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	17	-	-	v	v	-	-	v	v	v	v	v	v	v	v
	25	v	v	v	v	v	v	v	v	v	v	v	v	v	v
Radiated Spurious Emission	2	v	v	v	v	v	v	v		v			v	v	v
	4	v	v	v	v	v	v	v		v			v	v	v
	5	v	v	v	v	-	-	v		v			v	v	v
	13	-	-	v	v	-	-	v		v			v	v	v
	17	-	-	v	v	-	-	v		v			v	v	v
	25	v	v	v	v	v	v	v		v					v
Note	1. The mark "v" means that this configuration is chosen for testing 2. The mark "-" means that this bandwidth is not supported. 3. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst case emissions are reported.														

2.2 Connection Diagram of Test System

<EUT in host with Accessory>



<EUT in host without Accessory>



2.3 Support Unit used in test configuration and system

Item	Equipment	Trade Name	Model No.	FCC ID	Data Cable	Power Cord
1.	System Simulator	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
2.	iPod Earphone	Apple	N/A	Verification	Unshielded, 1.0 m	N/A

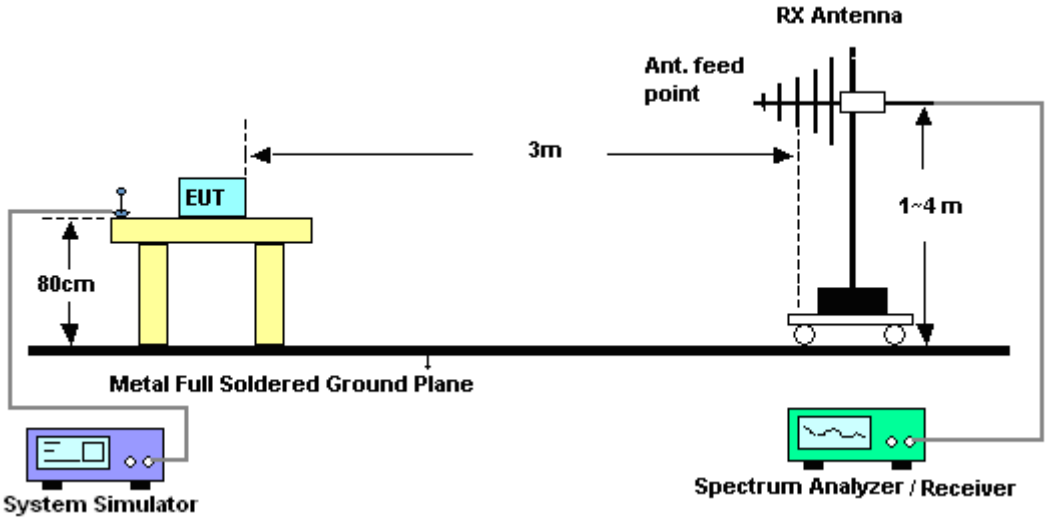
3 Radiated Test Items

3.1 Measuring Instruments

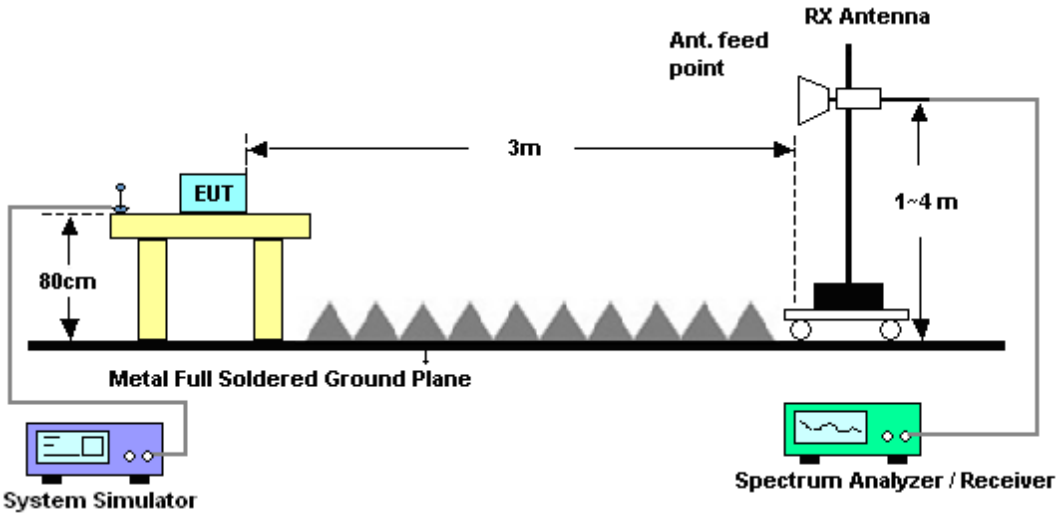
See list of measuring instruments of this test report.

3.2 Test Setup

3.2.1 For radiated test from 30MHz to 1GHz



3.2.2 For radiated test above 1GHz



3.3 Test Result of Radiated Test

Please refer to Appendix B.

3.4 Radiated Spurious Emission

3.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA / EIA-603-C-2004. The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least 43 + 10 log (P) dB.

For LTE Band 13,17

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to −70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and −80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

3.4.2 Test Procedures

1. The testing follows FCC KDB 971168 v02r02 Section 5.8 and ANSI / TIA-603-C-2004 Section 2.2.12.
2. The EUT was placed on a rotatable wooden table with 0.8 meter above ground.
3. The EUT was set 3 meters from the receiving antenna, which was mounted on the antenna tower.
4. The table was rotated 360 degrees to determine the position of the highest spurious emission.
5. The height of the receiving antenna is varied between one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. A horn antenna was substituted in place of the EUT and was driven by a signal generator.
8. Tune the output power of signal generator to the same emission level with EUT maximum spurious emission.
9. Taking the record of output power at antenna port.
10. Repeat step 7 to step 8 for another polarization.
11. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
    The limit line is derived from 43 + 10log(P)dB below the transmitter power P(Watts)
    = P(W)- [43 + 10log(P)] (dB)
    = [30 + 10log(P)] (dBm) - [43 + 10log(P)] (dB)
    = -13dBm.
12. EIRP (dBm) = S.G. Power – Tx Cable Loss + Tx Antenna Gain
13. ERP (dBm) = EIRP - 2.15

4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Spectrum Analyzer	Rohde & Schwarz	FSP40	100055	9kHz~40GHz	Jun. 09, 2014	Feb. 24, 2015	Jun. 08, 2015	Conducted (TH02-HY)
Signal Analyzer	Rohde & Schwarz	FSV 30	100895	9kH z~ 30GHz	Apr. 11, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Apr. 10, 2015	Radiation (03CH07-HY)
Bilog Antenna	Schaffner	CBL6111C	2726	30MHz ~ 1GHz	Sep. 27, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Sep. 26, 2015	Radiation (03CH07-HY)
Double Ridge Horn Antenna	ESCO	3117	75962	1GHz~18GHz	Aug. 19, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Aug. 18, 2015	Radiation (03CH07-HY)
Preamplifier	COM-POWER	PA-103A	161241	10 MHz ~ 1000MHz	Mar. 17, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Mar. 16, 2015	Radiation (03CH07-HY)
Preamplifier	Agilent	8449B	3008A02362	1 GHz~26.5 GHz	Oct. 21, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Oct. 20, 2015	Radiation (03CH07-HY)
Turn Table	ChainTek	ChainTek 3000	N/A	0 ~ 360 degree	N/A	Mar. 04, 2015 ~ Mar. 05, 2015	N/A	Radiation (03CH07-HY)
Antenna Mast	ChainTek	M-400-0	114/8000604/L	N/A	N/A	Mar. 04, 2015 ~ Mar. 05, 2015	N/A	Radiation (03CH07-HY)
SHF-EHF Horn Antenna	SCHWARZBECK	BBHA 9170	BBHA9170251	18GHz~40GHz	Oct. 02, 2014	Mar. 04, 2015 ~ Mar. 05, 2015	Oct. 01, 2015	Radiation (03CH07-HY)

5 Uncertainty of Evaluation

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**2.54**

Uncertainty of Radiated Emission Measurement (1 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% (U = 2Uc(y))	**4.72**

Appendix A. Test Results of Conducted Test

Conducted Output Power(Average power)

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	23.06	22.99	22.79
1.4	1	2		22.88	23.00	22.76
1.4	1	5		22.88	22.97	22.77
1.4	3	0		23.04	22.96	22.75
1.4	3	1		22.99	22.95	22.76
1.4	3	2		22.95	23.01	22.73
1.4	6	0		22.05	22.09	21.89
1.4	1	0	16-QAM	22.11	22.08	21.94
1.4	1	2		21.88	22.07	21.87
1.4	1	5		21.88	21.93	21.89
1.4	3	0		22.15	22.04	21.93
1.4	3	1		21.88	22.02	21.88
1.4	3	2		21.87	22.12	21.87
1.4	6	0		20.96	21.11	20.94
3	1	0	QPSK	23.08	22.98	22.78
3	1	7		22.89	22.98	22.77
3	1	14		23.08	22.92	22.77
3	8	0		22.09	22.03	21.97
3	8	4		21.95	22.03	21.82
3	8	7		21.86	22.04	21.86
3	15	0		21.97	22.02	21.93
3	1	0	16-QAM	22.00	21.97	21.82
3	1	7		21.86	22.05	21.80
3	1	14		21.97	22.02	21.80
3	8	0		20.99	20.98	20.69
3	8	4		20.81	20.93	20.76
3	8	7		20.82	20.94	20.86
3	15	0		20.93	20.92	20.80

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.98	22.96	22.72
5	1	12		22.86	23.00	22.84
5	1	24		22.99	22.94	22.82
5	12	0		21.94	22.04	21.90
5	12	6		21.84	21.99	21.80
5	12	11		21.94	21.98	21.97
5	25	0		21.71	21.83	21.68
5	1	0	16-QAM	21.96	21.93	21.75
5	1	12		21.88	21.98	21.90
5	1	24		21.91	22.00	21.95
5	12	0		21.10	21.17	20.89
5	12	6		20.92	21.01	20.81
5	12	11		21.02	21.11	20.90
5	25	0		20.79	20.78	20.75
10	1	0	QPSK	23.07	22.94	22.70
10	1	24		22.91	23.01	22.79
10	1	49		22.95	22.91	22.74
10	25	0		21.95	22.03	21.70
10	25	12		22.02	21.87	21.60
10	25	24		21.95	21.94	21.67
10	50	0		21.74	21.61	21.56
10	1	0	16-QAM	22.03	22.03	21.76
10	1	24		21.97	22.10	21.78
10	1	49		21.96	22.02	21.89
10	25	0		21.03	20.87	20.67
10	25	12		21.21	20.82	20.73
10	25	24		20.89	20.72	20.75
10	50	0		20.77	20.81	20.54

LTE Band 2 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	23.05	22.84	22.74
15	1	37		23.06	22.96	22.76
15	1	74		22.96	22.85	22.83
15	36	0		22.04	21.81	21.54
15	36	18		21.83	21.88	21.64
15	36	37		21.85	21.72	21.56
15	75	0		21.77	21.78	21.52
15	1	0	16-QAM	22.00	21.97	21.68
15	1	37		22.12	21.94	21.75
15	1	74		22.07	22.04	21.86
15	36	0		21.04	20.77	20.56
15	36	18		20.88	20.69	20.62
15	36	37		20.77	20.81	20.57
15	75	0		20.73	20.69	20.60
20	1	0	QPSK	**23.12**	23.02	22.87
20	1	49		23.07	22.94	22.61
20	1	99		23.00	22.76	22.62
20	50	0		21.99	21.77	21.50
20	50	24		21.83	21.76	21.48
20	50	49		21.72	21.68	21.46
20	100	0		21.86	21.85	21.51
20	1	0	16-QAM	22.08	22.14	21.76
20	1	49		22.07	22.01	21.80
20	1	99		22.09	21.92	21.85
20	50	0		20.96	20.76	20.52
20	50	24		20.77	20.72	20.32
20	50	49		20.72	20.69	20.54
20	100	0		20.81	20.70	20.51

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.91	22.98	22.94
1.4	1	2		23.02	22.83	22.94
1.4	1	5		22.81	22.97	22.89
1.4	3	0		22.86	22.92	23.00
1.4	3	1		22.79	22.93	22.92
1.4	3	2		22.89	22.83	22.98
1.4	6	0		22.11	22.23	22.25
1.4	1	0	16-QAM	21.85	22.12	22.20
1.4	1	2		21.91	21.99	22.10
1.4	1	5		21.85	22.26	22.14
1.4	3	0		21.93	21.98	22.30
1.4	3	1		22.16	21.99	22.24
1.4	3	2		21.94	22.20	22.06
1.4	6	0		21.35	21.23	21.16
3	1	0	QPSK	22.84	22.99	22.94
3	1	7		23.03	22.89	23.00
3	1	14		22.95	22.98	23.01
3	8	0		22.06	22.14	22.26
3	8	4		22.05	21.93	22.25
3	8	7		21.80	22.14	22.02
3	15	0		22.18	22.16	22.20
3	1	0	16-QAM	21.91	22.14	22.12
3	1	7		22.05	21.95	22.20
3	1	14		21.88	22.19	22.04
3	8	0		20.90	21.09	21.23
3	8	4		20.97	20.86	21.11
3	8	7		20.91	21.21	21.03
3	15	0		21.09	21.11	21.19

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.95	23.02	23.02
5	1	12		23.03	22.90	22.99
5	1	24		22.94	23.01	23.00
5	12	0		21.96	22.04	22.18
5	12	6		21.86	22.01	22.14
5	12	11		21.89	22.18	22.04
5	25	0		21.96	22.10	22.17
5	1	0	16-QAM	21.82	22.04	22.08
5	1	12		21.90	22.08	22.07
5	1	24		21.86	22.16	22.09
5	12	0		20.99	21.13	21.31
5	12	6		21.08	20.88	21.22
5	12	11		21.04	21.24	21.21
5	25	0		20.93	21.14	21.10
10	1	0	QPSK	22.92	23.06	23.06
10	1	24		23.07	22.93	22.97
10	1	49		22.88	23.05	23.03
10	25	0		21.81	21.98	22.05
10	25	12		21.82	21.80	21.95
10	25	24		21.71	22.13	21.99
10	50	0		21.86	21.79	21.92
10	1	0	16-QAM	21.95	22.08	22.06
10	1	24		22.15	21.89	22.05
10	1	49		21.87	22.02	22.11
10	25	0		20.89	21.04	21.04
10	25	12		21.09	20.78	20.96
10	25	24		20.76	21.02	21.04
10	50	0		21.09	20.90	20.86

LTE Band 25 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.95	22.96	23.03
15	1	37		23.03	22.84	22.95
15	1	74		22.90	22.99	22.96
15	36	0		21.81	21.79	21.95
15	36	18		21.82	21.80	21.84
15	36	37		21.74	22.07	21.94
15	75	0		21.93	21.84	21.77
15	1	0	16-QAM	22.02	22.06	22.15
15	1	37		22.13	22.07	22.07
15	1	74		21.91	21.98	22.09
15	36	0		20.83	21.00	20.89
15	36	18		20.85	20.79	20.89
15	36	37		20.67	20.93	20.89
15	75	0		20.84	20.90	20.85
20	1	0	QPSK	23.05	**23.09**	22.87
20	1	49		23.06	22.99	22.93
20	1	99		22.96	23.04	23.08
20	50	0		21.70	21.92	21.81
20	50	24		21.75	21.72	21.70
20	50	49		21.70	21.86	21.74
20	100	0		21.87	21.89	21.80
20	1	0	16-QAM	22.07	22.12	21.93
20	1	49		22.11	21.90	21.97
20	1	99		22.01	22.01	22.12
20	50	0		20.69	20.77	20.73
20	50	24		20.84	20.76	20.73
20	50	49		20.77	20.92	20.76
20	100	0		21.09	20.91	20.85

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.68	22.96	22.85
1.4	1	2		22.70	22.94	22.88
1.4	1	5		22.62	22.95	22.96
1.4	3	0		22.67	22.95	22.83
1.4	3	1		22.64	22.94	22.87
1.4	3	2		22.59	22.86	22.92
1.4	6	0		21.72	22.01	21.86
1.4	1	0	16-QAM	21.73	22.07	22.00
1.4	1	2		21.64	21.98	22.00
1.4	1	5		21.66	22.01	21.95
1.4	3	0		21.66	22.06	21.95
1.4	3	1		21.68	21.98	21.84
1.4	3	2		21.71	22.01	21.85
1.4	6	0		20.67	21.02	20.85
3	1	0	QPSK	22.82	22.92	22.79
3	1	7		22.62	22.84	22.85
3	1	14		22.62	22.90	22.86
3	8	0		21.77	22.06	21.84
3	8	4		21.63	21.84	21.80
3	8	7		21.66	21.92	21.85
3	15	0		21.73	22.01	21.82
3	1	0	16-QAM	21.86	21.98	21.80
3	1	7		21.67	22.00	21.83
3	1	14		21.63	21.95	21.86
3	8	0		20.66	21.07	20.81
3	8	4		20.60	20.79	20.71
3	8	7		20.66	20.88	20.77
3	15	0		20.60	21.04	20.78

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.71	22.97	22.92
5	1	12		22.85	22.93	22.83
5	1	24		22.68	22.94	22.83
5	12	0		21.75	22.03	21.91
5	12	6		21.87	21.95	21.87
5	12	11		21.68	21.95	21.75
5	25	0		21.60	21.92	21.71
5	1	0	16-QAM	21.85	21.93	21.92
5	1	12		21.78	22.00	21.90
5	1	24		21.69	22.00	21.85
5	12	0		20.80	21.11	20.84
5	12	6		20.86	20.95	20.75
5	12	11		20.81	20.87	20.84
5	25	0		20.78	20.88	20.61
10	1	0	QPSK	22.74	22.97	22.91
10	1	24		22.77	22.96	22.85
10	1	49		22.73	22.90	22.94
10	25	0		21.70	21.98	21.76
10	25	12		21.74	21.86	21.73
10	25	24		21.71	21.79	21.69
10	50	0		21.38	21.81	21.56
10	1	0	16-QAM	21.73	22.14	21.98
10	1	24		21.83	21.85	21.90
10	1	49		21.64	21.98	21.82
10	25	0		20.79	20.84	20.76
10	25	12		20.71	20.79	20.77
10	25	24		20.78	20.71	20.76
10	50	0		20.53	20.77	20.62

LTE Band 4 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
15	1	0	QPSK	22.79	22.90	22.85
15	1	37		22.84	22.84	22.94
15	1	74		22.56	22.89	22.66
15	36	0		21.51	21.82	21.60
15	36	18		21.71	21.75	21.72
15	36	37		21.51	21.60	21.63
15	75	0		21.54	21.78	21.60
15	1	0	16-QAM	21.80	21.96	21.87
15	1	37		21.76	21.98	21.92
15	1	74		21.70	21.94	21.76
15	36	0		20.60	20.81	20.69
15	36	18		20.63	20.74	20.62
15	36	37		20.61	20.73	20.60
15	75	0		20.52	20.70	20.60
20	1	0	QPSK	22.90	22.95	**22.98**
20	1	49		22.76	22.86	22.96
20	1	99		22.66	22.82	22.94
20	50	0		21.61	21.62	21.66
20	50	24		21.41	21.61	21.61
20	50	49		21.57	21.47	21.65
20	100	0		21.49	21.69	21.75
20	1	0	16-QAM	21.82	21.98	21.97
20	1	49		21.84	22.01	21.94
20	1	99		21.73	21.97	21.99
20	50	0		20.61	20.69	20.63
20	50	24		20.59	20.48	20.53
20	50	49		20.54	20.60	20.58
20	100	0		20.50	20.74	20.62

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
1.4	1	0	QPSK	22.58	22.76	22.66
1.4	1	2		22.66	22.59	22.63
1.4	1	5		22.74	22.64	22.65
1.4	3	0		22.57	22.75	22.68
1.4	3	1		22.68	22.65	22.67
1.4	3	2		22.57	22.49	22.61
1.4	6	0		21.67	21.72	21.77
1.4	1	0	16-QAM	21.58	21.68	21.56
1.4	1	2		21.54	21.55	21.59
1.4	1	5		21.60	21.62	21.58
1.4	3	0		21.72	21.82	21.59
1.4	3	1		21.63	21.63	21.54
1.4	3	2		21.62	21.51	21.61
1.4	6	0		20.68	20.82	20.64
3	1	0	QPSK	22.56	22.64	22.63
3	1	7		22.66	22.53	22.62
3	1	14		22.61	22.63	22.55
3	8	0		21.62	21.75	21.69
3	8	4		21.67	21.70	21.68
3	8	7		21.66	21.64	21.76
3	15	0		21.53	21.82	21.72
3	1	0	16-QAM	21.57	21.77	21.63
3	1	7		21.58	21.67	21.64
3	1	14		21.69	21.60	21.54
3	8	0		20.56	20.71	20.73
3	8	4		20.48	20.59	20.64
3	8	7		20.52	20.49	20.63
3	15	0		20.61	20.82	20.58

LTE Band 5 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.62	22.68	22.50
5	1	12		22.71	22.59	22.77
5	1	24		22.55	22.60	22.65
5	12	0		21.73	21.75	21.68
5	12	6		21.70	21.80	21.67
5	12	11		21.72	21.69	21.68
5	25	0		21.54	21.71	21.66
5	1	0	16-QAM	21.71	21.71	21.54
5	1	12		21.65	21.65	21.73
5	1	24		21.58	21.58	21.60
5	12	0		20.64	20.75	20.75
5	12	6		20.70	20.79	20.80
5	12	11		20.65	20.67	20.64
5	25	0		20.55	20.73	20.63
10	1	0	QPSK	22.78	**22.81**	22.77
10	1	24		22.59	22.70	22.58
10	1	49		22.51	22.73	22.67
10	25	0		21.76	21.77	21.71
10	25	12		21.70	21.73	21.68
10	25	24		21.66	21.62	21.67
10	50	0		21.66	21.71	21.53
10	1	0	16-QAM	21.51	21.75	21.75
10	1	24		21.59	21.80	21.79
10	1	49		21.56	21.67	21.61
10	25	0		20.69	20.78	20.58
10	25	12		20.63	20.71	20.62
10	25	24		20.41	20.56	20.57
10	50	0		20.51	20.67	20.55

LTE Band 13 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.23	22.23	22.20
5	1	12		22.14	22.55	22.07
5	1	24		22.37	22.40	22.02
5	12	0		21.15	21.46	21.09
5	12	6		21.20	21.63	21.17
5	12	11		21.23	21.58	21.03
5	25	0		21.17	21.42	21.03
5	1	0	16-QAM	21.09	21.26	21.25
5	1	12		21.14	21.63	21.15
5	1	24		21.43	21.45	21.02
5	12	0		20.12	20.60	20.18
5	12	6		20.19	20.56	20.20
5	12	11		20.39	20.54	20.16
5	25	0		20.10	20.46	20.02
10	1	0	QPSK		**22.83**	
10	1	24			22.74	
10	1	49			22.75	
10	25	0			21.80	
10	25	12			21.72	
10	25	24			21.76	
10	50	0			21.63	
10	1	0	16-QAM		21.61	
10	1	24			21.99	
10	1	49			21.81	
10	25	0			20.60	
10	25	12			20.77	
10	25	24			20.69	
10	50	0			20.64	

LTE Band 17 Maximum Average Power [dBm]						
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest
5	1	0	QPSK	22.49	22.60	22.58
5	1	12		22.43	22.42	22.57
5	1	24		22.40	22.09	22.40
5	12	0		21.41	21.56	21.69
5	12	6		21.62	21.56	21.70
5	12	11		21.67	21.41	21.60
5	25	0		21.46	21.34	21.65
5	1	0	16-QAM	21.53	21.54	21.56
5	1	12		21.45	21.52	21.48
5	1	24		21.51	21.14	21.44
5	12	0		20.45	20.63	20.77
5	12	6		20.60	20.57	20.82
5	12	11		20.65	20.48	20.68
5	25	0		20.43	20.40	20.65
10	1	0	QPSK	22.45	22.46	**22.62**
10	1	24		22.43	22.43	22.61
10	1	49		22.17	22.00	22.01
10	25	0		21.55	21.53	21.72
10	25	12		21.53	21.52	21.73
10	25	24		21.51	21.36	21.36
10	50	0		21.39	21.27	21.56
10	1	0	16-QAM	21.48	21.48	21.63
10	1	24		21.47	21.47	21.61
10	1	49		21.32	21.05	21.08
10	25	0		20.38	20.52	20.74
10	25	12		20.58	20.61	20.76
10	25	24		20.58	20.40	20.41
10	50	0		20.43	20.37	20.57

Appendix B. Test Results of Radiated Test