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TEST REPORT

Report Number: 101078559LEX-009

Project Number: G101078559

Report Issue Date: 6/14/2013

Product Name: MC7750

Integrated into the iX101T1 Rugged Tablet

FCCID: Q2GMC7750

Standards: Title 47 CFR Part 27

Radio Under Test: LTE Band 13

Tested by: Intertek Testing Services NA, Inc. 731 Enterprise Drive Lexington, KY 40510 Client: Xplore Technologies 14000 Summit Dr. Austin, TX 78728

Report prepared by

Bryan Taylor, Team Leader

Report reviewed by

Jason Centers, Senior Project Engineer













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Report Number: 101078559LEX-009 Issued: 6/14/2013

TABLE OF CONTENTS

1	Introduction and Conclusion	
2	Test Summary	
3	Description of Equipment Under Test	4
	Conducted Output Power	
5	Occupied Bandwidth	Error! Bookmark not defined
6	Conducted Spurious Emissions at Antenna Terminals	Error! Bookmark not defined
7	Radiated Output Power	Error! Bookmark not defined
8	Radiated Spurious Emissions (Transmitter)	6
9	Frequency Stability	Error! Bookmark not defined
10	Measurement Uncertainty	10
11	Revision History	

1 Introduction and Conclusion

The tests indicated in section 2 were performed on the product constructed as described in section 3. The remaining test sections are the verbatim text from the actual data sheets used during the investigation. These test sections include the test name, the specified test method, a list of the actual test equipment used, documentation photos, results and raw data. No additions, deviations, or exclusions have been made from the standard(s) unless specifically noted.

Based on the results of our investigation, we have concluded the product tested complied with the requirements of the standard(s) indicated. The results obtained in this test report pertain only to the item(s) tested.

The INTERTEK-Lexington is located at 731 Enterprise Drive, Lexington Kentucky, 40510. The radiated emission test site is a 10-meter semi-anechoic chamber. The chamber meets the characteristics of CISPR 16-1 and ANSI C63.4. For measurements, a remotely controlled flush-mount metal-top turntable is used to rotate the EUT a full 360 degrees. A remote controlled non-conductive antenna mast is used to scan the antenna height from one to four meters. The test site is listed with the FCC under registration number 485103. The test site is listed with Industry Canada under site number IC 2042M-1.

2 Test Summary

Page	Test full name	FCC Reference	Result
6	Radiated Spurious Emissions (Transmitter)	§27.53(c) and §27.53 (f)	Pass

EMC Report for Xplore Technologies on the MC7750 FCCID:Q2GMC7750

3 Description of Equipment Under Test

Equipment Under Test						
Manufacturer	Xplore Technologies					
Model Number	iX101T1					
Serial Number	Test Sample #2					
FCC Identifier	Q2GMC7750					
Receive Date	3/20/2013					
Test Start Date	4/17/2013					
Test End Date	4/26/2013					
Device Received Condition	Good					
Test Sample Type	Production					
Frequency Band	777MHz - 787MHz					
Modulation Type	QPSK and 16QAM					
Transmission Control	Base Station Simulator					
Maximum Output Power (Conducted)	QPSK: 23.75dBm 16QAM: 22.27dBm					
Test Channels	782MHz					
Emission Designators	QPSK: 8M94G7D 16QAM: 8M91D7W					
Antenna Type	Internal PCB					
Antenna Gain (Provided by Manufacturer)	0.6dBi					
Operating Voltage	115VAC/60Hz (Via AC / DC Power Adapter)					

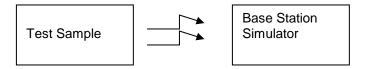
Description of Equipment Under Test
The iX101T1 is a wireless module being integrated into the Xplore Technologies iX101T1 Rugged Tablet

Operating modes of the EUT:

No.	Descriptions of EUT Exercising
1	Transmitting an LTE signal using either 16-QAM or QPSK modulation
2	

3.1 System setup including cable interconnection details, support equipment and simplified block diagram

3.2 EUT Block Diagram:



Block Diagram for Radiated Tests

3.3 Cables:

Cables							
Description	Longth	Shielding	Ferrites	Connection			
Description	Length Shielding Ferrites	From	То				
120 / 240Vac Power Cable	1m	No	No	120 / 240Vac Wall Supply	Xplore Tablet		
Cat5e Ethernet Cable	1m	No	No	Netgear Ethernet / Wi-Fi Router	Xplore Tablet		
HDMI Mini Cable	1m	Yes	No	Xplore Tablet	Unterminated		
HDMI Cable	1m	Yes	No	Xplore Tablet	Unterminated		
Micro USB Cable	1m	Yes	No	Xplore Tablet	Unterminated		
USB Cable	1m	Yes	No	USB Mouse	Xplore Tablet		

3.4 Support Equipment:

Support Equipment							
Description Manufacturer Model Number Serial Number							
Wireless Router	Netgear	WNDR3700v4	311315801CC9				

4 Radiated Spurious Emissions (Transmitter)

4.1 Test Limits

§27.53(c)(2) and §27.53 (f)

- (c) For operations in the 746-758 MHz band and the 776-788 MHz band, the power of any emission outside the licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On any frequency outside the 746-758 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (2) On any frequency outside the 776-788 MHz band, the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least 43 + 10 log (P) dB;
- (3) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (4) On all frequencies between 763-775 MHz and 793-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (5) Compliance with the provisions of paragraphs (c)(1) and (c)(2) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed;
- (6) Compliance with the provisions of paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
- (d) For operations in the 758-763 MHz and 788-793 MHz bands, the power of any emission outside the licensee's frequency bands of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, in accordance with the following:
- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 76 + 10 log (P) dB in a 6.25 kHz band segment, for base and fixed stations;
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than 65 + 10 log (P) dB in a 6.25 kHz band segment, for mobile and portable stations;
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least 43 + 10 log (P) dB;
- (4) Compliance with the provisions of paragraphs (d)(1) and (d)(2) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment;
- (5) Compliance with the provisions of paragraph (d)(3) of this section is based on the use of measurement instrumentation employing a resolution bandwidth of 100 kHz or greater. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed.
- (f) For operations in the 746-763 MHz, 775-793 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. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

4.2 Test Procedure

The EUT was placed on a non-conductive turntable. The measurement antenna was placed at a distance of 3 meters from the EUT. The EUT was forced to transmit at its maximum output power setting. During the tests, the antenna height and EUT azimuth were varied in order to identify the maximum level of emissions from the EUT.

The frequency range up to tenth harmonic was investigated in order to identify the spurious emission. Once the spurious emissions were identified, the power of the emission was determined using the substitution method described in TIA-603-C. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and at the spurious emissions frequency.

4.3 Test Equipment Used:

4.5 Test Equipment Osed.								
Description	Serial Number	Manufacturer	Model	Cal. Date	Cal. Due			
EMI Test Receiver	10887490.26	Rohde & Schwarz	ESI26	9/15/2012	9/14/2013			
Preamplifier	987410	Miteq	AFS44- 00102000-30- 10P-44	9/4/2012	9/4/2013			
Preamplifier	SF456200904	Mini-Circuits	ZX60-3018G-S+	9/4/2012	9/4/2013			
Biconnilog Antenna	00051864	ETS	3142C	12/14/2012	12/14/2013			
Bilog Antenna	2362	ETS	3142B	12/26/2012	12/26/2013			
Horn Antenna	6556	ETS	3115	8/7/2012	8/7/2013			
Horn Antenna	1096	Antenna Research	DRG-118/A	9/13/2012	9/13/2013			
System Controller	121701-1	Sunol Sciences	SC99V	Time of Use	Time of Use			
High Pass Filter	3986-01 DC0408	Microwave Circuits, Inc.	H3G020G2	Time of Use	Time of Use			
Base Station	1065295	Rohde & Schwarz	CMW500	6/14/2012	6/14/2013			

4.4 Results:

All radiated spurious emissions were attenuated below the transmitting power (P) by a factor of at least 43 + 10 log(P) dB which is equivalent to -13dBm. Additionally, the spurious emissions located in the 1559 – 1610MHz band were below the wideband emission limit (-40dBm/MHz). Each operational mode was investigated the worst case data was reported below. Emissions not reported were below the measurement noise floor. The test sample was evaluated on three orthogonal axes since it was a hand held device and could be used in any orientation.

Worst Case Spurious Measurements for §27.53(c)(2)
Radiated Spurious Emissions Measurement

Test Engineer: Bryan Taylor Test Date: 4/19/2013

Temp. / Humidity / 22.5C / 51.6% / 990.3mBar Pressure: Bandwidth Settings: RBW = VBW = 1MHz

Spurious emissions not reported here were below the measurement noise floor.

Spurious Frequency (MHz)	Notes:			Α	В	С	D	Е	F
Band/Channel Frequency QlBm Generator Cable Loss Tx Antenna Calin (dBm) Level (dBm) Level (dBm) (dBm) Level (dBm) Leve									Radiated
Band/Channel		•			_				Spurious
1564		•		_					Emission
1564	Band/Channel					,			Level (dBm)
2346									-40.38
2346									-40.99
STOPPORT									-36.89
State									-34.24
A									-50.57
ABB AND ASSETS OF A STATE OF A ST									-60.15
ABB									-50.81
QPSK 4692 V -67.47 -50.93 5.96 9.00 -13 -47 5474 H -72.21 -53.06 6.69 8.37 -13 -51 6256 H -69.94 -47.17 7.01 9.13 -13 -45 6256 H -69.94 -47.17 7.01 9.13 -13 -45 7038 H -72.34 -42.13 7.77 9.61 -13 -40 7038 H -72.34 -42.13 7.77 9.61 -13 -40 7038 H -72.34 -42.13 7.77 9.61 -13 -40 7820 H -72.94 -41.72 7.77 9.34 -13 -44 7820 V -73.42 -42.94 7.77 9.34 -13 -40 1564 H -79.51 -40.86 2.75 3.15 -13 -40 2346 D -80.16									-49.43
S474									-50.08
S474	QPSK								-47.89
6256 H 69.94 -47.17 7.01 9.13 -13 -45 6256 V -71.46 -49.32 7.01 9.13 -13 -47 7038 H 77.24 -42.13 7.77 9.61 -13 -40 7038 V -73.11 -45.24 7.77 9.61 -13 -40 7820 H 77.299 -41.72 7.77 9.61 -13 -40 7820 H 77.99 -41.72 7.77 9.34 -13 -40 7820 V -73.42 -42.94 7.77 9.34 -13 -40 7820 V -79.51 -40.86 2.75 3.15 -13 -40 7820 V -79.21 -33.74 3.61 2.85 -13 -35 73.44									-51.38
6256 V 71.46 49.32 7.01 9.13 -13 -47 7038 H 72.34 -42.13 7.77 9.61 -13 -40 7038 V 73.11 45.24 7.77 9.61 -13 -40 7820 H 72.99 -41.72 7.77 9.34 -13 -40 7820 V 73.42 -42.94 7.77 9.34 -13 -40 1564 H 79.51 -40.86 2.75 3.15 -13 -40 1564 V 80.16 41.39 2.75 3.15 -13 -40 2346 H 78.02 -34.54 3.61 2.85 -13 -35 2346 V 79.21 -33.74 3.61 2.85 -13 -35 3128 H 65.46 -52.91 4.33 7.19 -13 -50 3310 H 67.11 -53.08 5.07 6.98 -13 -51 3310 V 66.89 -51.5 5.07 6.98 -13 -40 4692 V 66.49 -49.95 5.96 9.00 -13 -46 5474 H 71.47 -52.32 6.69 8.37 -13 -50 6256 H 70.68 47.91 7.01 9.13 -13 -45 6256 V 73.44 -45.57 7.77 9.61 -13 -43 7038 H 71.67 -41.46 7.77 9.61 -13 -43 7038 H 71.67 -41.46 7.77 9.61 -13 -43 7038 H 71.67 -41.46 7.77 9.61 -13 -43 7038 V 73.44 -45.57 7.77 9.61 -13 -43 7038 V 73.44 -45.57 7.77 9.61 -13 -43 7038 H 71.67 -41.46 7.77 9.61 -13 -43 7038 H 77.68 -43.44 -45.57 7.77 9.61 -13 -43 7038 H 77.68 -43.44 -45.57 7.77 9.61 -13 -43 7038 H 77.67 -41.46 7.77 9.61 -13 -33 7038 V 73.44 -45.57 7.77 9.61 -13 -33 7038 V 73.44 -45.57 7.77 9.61 -13 -33 7038 H 77.67 -41.46 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -33 7038 -44 -44.44 -45.57 7.77 9.61 -13 -36									-51.06
7038									-45.06
T038									-47.21
7820 H -72.99 -41.72 7.77 9.34 -13 -40 7820 V -73.42 -42.94 7.77 9.34 -13 -41 1564 H H -79.51 -40.86 2.75 3.15 -13 -44 1564 V -80.16 -41.39 2.75 3.15 -13 -40 2346 H -78.02 -34.54 3.61 2.85 -13 -35 2346 V -79.21 -33.74 3.61 2.85 -13 -34 3128 H -65.46 -52.91 4.33 7.19 -13 -50 3128 V -70.82 -66.59 4.33 7.19 -13 -63 3128 V -70.82 -66.59 4.33 7.19 -13 -63 3910 H -67.11 -53.08 5.07 6.98 -13 -49 2PSK 4692 H -73.59 -54.57 5.96 9.00 -13 -46 5474 H -71.47 -52.32 6.69 8.37 -13 -50 5474 V -69.78 -52.2 6.69 8.37 -13 -50 6256 H -70.68 -47.91 7.01 9.13 -13 -45 6256 V -71.42 -49.28 7.01 9.13 -13 -45 6256 V -73.44 -45.57 7.77 9.61 -13 -43 7038 H -71.67 -41.46 7.77 9.34 -13 -40 7820 V -73.62 -43.14 7.77 9.34 -13 -40 7820 W -73.62 -43.14 7.77 9.34 -13 -40 1564 W -80.21 -41.44 2.75 3.15 -13 -40 1564 W -80.21 -50.24 5.07 6.98 -13 -39 3128 W -69.48 -65.25 4.33 7.19 -13 -60 33128 W -69.48 -65.25 6.69 8.37 -13 -60 33128 W -69.48 -65.25 6.69 8.3									-40.29
T820									-43.40
1564									-40.15 -41.37
1564									-41.37
Company									-40.46
Company									-35.30
3128 H -65.46 -52.91 4.33 7.19 -13 -50 3128 V -70.82 -66.59 4.33 7.19 -13 -50 3910 H -67.11 -53.08 5.07 6.98 -13 -43 3910 V -66.89 -51.5 5.07 6.98 -13 -49 LTE Band 13, RB 25, 4692 H -73.59 -54.57 5.96 9.00 -13 -51 5474 H -71.47 -52.32 6.69 8.37 -13 -50 6256 H -70.68 -47.91 7.01 9.13 -13 -43 6256 V -71.42 -49.28 7.01 9.13 -13 -43 6256 V -71.42 -49.28 7.01 9.13 -13 -43 6256 V -73.44 -45.57 7.77 9.61 -13 -43 6256 H -73.15 -41.88 7.77 9.34 -13 -40 6256 H -80.04 -41.39 2.75 3.15 -13 -41 6256 V -80.04 -41.39 2.75 3.15 -13 -40 6256 H -70.68 -43.14 7.77 9.34 -13 -40 6256 H -70.68 -43.14 7.77 9.34 -13 -40 6256 H -73.45 -41.88 7.77 9.34 -13 -40 6256 H -73.45 -41.87 7.77 9.61 -13 -43 6256 H -73.45 -41.88 7.77 9.34 -13 -40 6256 H -73.45 -41.88 7.77 9.34 -13 -40 6256 H -73.45 -41.89 2.75 3.15 -13 -41 62346 H -80.04 -41.39 2.75 3.15 -13 -40 62346 H -79.08 -35.6 3.61 2.85 -13 -33 62346 H -79.08 -35.6 3.61 2.85 -13 -36 6236 H -64.89 -52.34 4.33 7.19 -13 -49 62346 H -79.08 -35.6 3.61 2.85 -13 -36 6236 H -78.43 -32.96 3.61 2.85 -13 -36 6256 H -70.46 -51.37 5.07 6.98 -13 -49 6256 H -70.46 -51.37 5.07 6.98 -13 -49 6256 H -70.46 -47.69 7.01 9.13 -13 -46 6256 H -70.46 -47.69 7.01 9.13 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -46									-34.50
State									-50.05
TEE Band 13, RB 25, AG92 H -67.11 -53.08 5.07 6.98 -13 -51 3910 V -66.89 -51.5 5.07 6.98 -13 -49 4692 H -73.59 -54.57 5.96 9.00 -13 -51 5474 H -71.47 -52.32 6.69 8.37 -13 -50 6256 H -70.68 -47.91 7.01 9.13 -13 -44 78.20 V -73.44 -45.57 7.77 9.61 -13 -43 7820 H -73.15 -41.88 7.77 9.61 -13 -40 78.20 V -73.62 -43.14 7.77 9.34 -13 -41 78.20 V -73.62 -43.14 7.77 9.34 -13 -40 78.20 V -73.62 -43.34 7.79 9.34 -13 -40 78.20 V -73.62 -43.34 7.19 -13 -40 78.20 V -73.62 -43.34 7.19 -13 -40 78.20 V -73.62 7.78.43 7.19 -13 -40 78.20 7.79 7.79 7.79 7.79 7.79 7.79 7.79 7.7									-63.73
TEB Band 13, RB 25, QPSK A 692			-						-51.16
LTE Band 13, RB 25, QPSK 4692									-49.58
QPSK 4692 V -66.49 -49.95 5.96 9.00 -13 -46 5474 H -71.47 -52.32 6.69 8.37 -13 -50 5474 V -69.78 -52.2 6.69 8.37 -13 -50 6256 H -70.68 -47.91 7.01 9.13 -13 -45 6256 H -70.68 -47.91 7.01 9.13 -13 -45 7038 H -71.67 -41.46 7.77 9.61 -13 -39 7038 V -73.44 -45.57 7.77 9.61 -13 -39 7038 V -73.44 -45.57 7.77 9.61 -13 -49 7038 V -73.44 -45.57 7.77 9.61 -13 -49 7820 H -73.15 -41.88 7.77 9.34 -13 -41 1564 H -80.04 <	LTE Band 13 RB 25		-						-51.53
5474 H -71.47 -52.32 6.69 8.37 -13 -50 5474 V -69.78 -52.2 6.69 8.37 -13 -50 6256 H -70.68 -47.91 7.01 9.13 -13 -45 6256 V -71.42 -49.28 7.01 9.13 -13 -45 7038 H -71.67 -41.46 7.77 9.61 -13 -39 7038 V -73.44 -45.57 7.77 9.61 -13 -39 7820 H -73.15 -41.88 7.77 9.34 -13 -41 1564 H -80.04 -41.39									-46.91
S474	α. σ. τ								-50.64
6256 H -70.68 -47.91 7.01 9.13 -13 -45 6256 V -71.42 -49.28 7.01 9.13 -13 -45 7038 H -71.67 -41.46 7.77 9.61 -13 -39 7038 V -73.44 -45.57 7.77 9.61 -13 -43 7820 H -73.15 -41.88 7.77 9.34 -13 -40 7820 V -73.62 -43.14 7.77 9.34 -13 -40 7820 V -73.62 -43.14 7.77 9.34 -13 -40 1564 H -80.04 -41.39 2.75 3.15 -13 -40 1564 V -80.21 -41.44 2.75 3.15 -13 -41 2346 H -79.08 -35.6 3.61 2.85 -13 -36 2346 V -78.43 -32.96 3.61 2.85 -13 -33 3128 H -64.89 -52.34 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -49 3128 V -69.48 -52.34 5.07 6.98 -13 -48 3910 H -64.27 -50.24 5.07 6.98 -13 -48 3910 V -66.76 -51.37 5.07 6.98 -13 -48 3910 V -67.15 -50.61 5.96 9.00 -13 -50 5474 H -71.88 -52.73 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -56 6256 V -70.59 -48.45 7.01 9.13 -13 -46									-50.52
Company			H						-45.80
7038 H -71.67 -41.46 7.77 9.61 -13 -39 7038 V -73.44 -45.57 7.77 9.61 -13 -43 7820 H -73.15 -41.88 7.77 9.34 -13 -40 7820 V -73.62 -43.14 7.77 9.34 -13 -41 1564 H -80.04 -41.39 2.75 3.15 -13 -40 1564 V -80.21 -41.44 2.75 3.15 -13 -41 2346 H -79.08 -35.6 3.61 2.85 -13 -36 2346 V -78.43 -32.96 3.61 2.85 -13 -36 2346 V -78.43 -32.96 3.61 2.85 -13 -36 3128 H -64.89 -52.34 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -49 3128 V -69.48 -65.25 5.25 4.33 7.19 -13 -48 3910 V -66.76 -51.37 5.07 6.98 -13 -48 3910 V -66.76 -51.37 5.07 6.98 -13 -48 4692 V -67.15 -50.61 5.96 9.00 -13 -50 5474 H -71.88 -52.73 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -51 6256 H -70.46 -47.69 7.01 9.13 -13 -46									-47.17
7820 H -73.15 -41.88 7.77 9.34 -13 -40 7820 V -73.62 -43.14 7.77 9.34 -13 -41 1564 H -80.04 -41.39 2.75 3.15 -13 -40 1564 V -80.21 -41.44 2.75 3.15 -13 -40 2346 H -79.08 -35.6 3.61 2.85 -13 -36 2346 V -78.43 -32.96 3.61 2.85 -13 -33 3128 H -64.89 -52.34 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -62 3910 H -64.27 -50.24 5.07 6.98 -13 -48 3910 V -66.76 -51.37 5.07 6.98 -13 -49 4692 H -72.14 -53.12			Н		-41.46		9.61	-13	-39.62
7820 V -73.62 -43.14 7.77 9.34 -13 -41 1564 H -80.04 -41.39 2.75 3.15 -13 -40 1564 V -80.21 -41.44 2.75 3.15 -13 -41 2346 H -79.08 -35.6 3.61 2.85 -13 -36 2346 V -78.43 -32.96 3.61 2.85 -13 -36 3128 H -64.89 -52.34 4.33 7.19 -13 -49 3128 V -69.48 -65.25 4.33 7.19 -13 -62 3910 H -64.27 -50.24 5.07 6.98 -13 -48 3910 V -66.76 -51.37 5.07 6.98 -13 -49 4692 H -72.14 -53.12 5.96 9.00 -13 -50 5474 H -71.88 -52.73		7038	V	-73.44	-45.57	7.77	9.61	-13	-43.73
1564		7820	Н	-73.15	-41.88	7.77	9.34	-13	-40.31
1564		7820	V	-73.62	-43.14	7.77	9.34	-13	-41.57
LTE Band 13, RB 1, QPSK QPSK 2346		1564	Н	-80.04	-41.39	2.75	3.15	-13	-40.99
Color		1564		-80.21	-41.44	2.75	3.15	-13	-41.04
A STATE STAT									-36.36
A STATE Band 13, RB 1, QPSK 3128									-33.72
A SPAN STATE									-49.48
A STATE STAT									-62.39
LTE Band 13, RB 1, QPSK 4692 H -72.14 -53.12 5.96 9.00 -13 -50 QPSK 4692 V -67.15 -50.61 5.96 9.00 -13 -47 4692 V -70.11 -52.53 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -45 6256 V -70.59 -48.45 7.01 9.13 -13 -46									-48.32
QPSK 4692 V -67.15 -50.61 5.96 9.00 -13 -47 5474 H -71.88 -52.73 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -45 6256 V -70.59 -48.45 7.01 9.13 -13 -46									-49.45
5474 H -71.88 -52.73 6.69 8.37 -13 -51 5474 V -70.11 -52.53 6.69 8.37 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -45 6256 V -70.59 -48.45 7.01 9.13 -13 -46	' '								-50.08
5474 V -70.11 -52.53 6.69 8.37 -13 -50 6256 H -70.46 -47.69 7.01 9.13 -13 -45 6256 V -70.59 -48.45 7.01 9.13 -13 -46	QPSK								-47.57
6256 H -70.46 -47.69 7.01 9.13 -13 -45 6256 V -70.59 -48.45 7.01 9.13 -13 -46									-51.05
6256 V -70.59 -48.45 7.01 9.13 -13 -46									-50.85 -45.58
									-46.34
ר- ו כו- ו מ.ט ו יו.ט ו -+י.ט ו שמ.ט ו ו שמ.ט ו יוט שמ.ט ו יוט שמ.ט ו יוט שמ.ט ו									-46.34
									-40.85
									-38.84
									-40.51
		1020	· · ·	, , 2.00	12.00	,	0.07	10	F=B-C+D

EMC Report for Xplore Technologies on the MC7750 FCCID:Q2GMC7750

Worst Case Spurious Measurements for §27.53(f)(1559MHz – 1610MHz Band)

Radiated Spurious Emissions Measurement

Test Engineer: Bryan Taylor

Test Date: 4/19/2013
Temp. / Humidity /
Pressure: 22.5C / 51.6% / 990.3mBar Bandwidth Settings: RBW = VBW = 1MHz

All spurious emissions in the 1559 - 1610MHz band were wideband.

			Α	В	С	D	E	F
	Spurious Frequency		Device Reading	Signal Generator	Cable Loss	Tx Antenna	Limit	Radiated Spurious Emission
Band/Channel	(MHz)	Polarity	(dBm)	Level (dBm)	(dB)	Gain (dBd)	(dBm/MHz)	Level (dBm)
LTE Band 13, RB:50,	1564	Н	-79.43	-40.78	2.75	3.15	-40	-40.38
QPSK	1564	V	-80.16	-41.39	2.75	3.15	-40	-40.99
LTE Band 13, RB 25,	1564	Н	-79.51	-40.86	2.75	3.15	-40	-40.46
QPSK	1564	V	-80.16	-41.39	2.75	3.15	-40	-40.99
LTE Band 13, RB 1,	1564	Н	-80.04	-41.39	2.75	3.15	-40	-40.99
QPSK	1564	V	-80.21	-41.44	2.75	3.15	-40	-41.04

F=B-C+D

EMC Report for Xplore Technologies on the MC7750 FCCID:Q2GMC7750

Intertek

Report Number: 101078559LEX-009 Issued: 6/14/2013

5 Measurement Uncertainty

The measured value related to the corresponding limit will be used to decide whether the equipment meets the requirements.

The measurement uncertainty figures were calculated and correspond to a coverage factor of k = 2, providing a confidence level of respectively 95.45 % in the case where the distributions characterizing the actual measurement uncertainties are normal (Gaussian).

Measurement uncertainty Table

Parameter	Uncertainty	Notes
Radiated emissions, 30 to 1000 MHz	<u>+</u> 3.9dB	
Radiated emissions, 1 to 18 GHz	<u>+</u> 4.2dB	
Radiated emissions, 18 to 40 GHz	<u>+</u> 4.3dB	
Power Port Conducted emissions, 150kHz to 30	<u>+</u> 2.8dB	
MHz		

Intertek

Report Number: 101078559LEX-009 Issued: 6/14/2013

6 Revision History

Revision	Date	Report Number	Notes
Level			
0	6/14/2013	101078559LEX-009	Original Issue