

APPLICATION CERTIFICATION FCC Part 15C
On Behalf of
IMC INTERNATIONAL INC.

5.5inch 3G TABLET
Model No.: FORCE XT55SP

FCC ID: 2ACI7-XT55SP

Prepared for : IMC INTERNATIONAL INC.
Address : 28E Jingang, Xixiang, Bao an District Shenzhen,
Guangdong Province,China

Prepared by : ACCURATE TECHNOLOGY CO., LTD
Address : F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

Tel: (0755) 26503290
Fax: (0755) 26503396

Report Number : ATE20141092
Date of Test : June 18-July 07,2014
Date of Report : July 07,2014

TABLE OF CONTENTS

Description	Page
Test Report Certification	
1. GENERAL INFORMATION	5
1.1. Description of Device (EUT).....	5
1.2. Carrier Frequency of Channels	5
1.3. Special Accessory and Auxiliary Equipment	6
1.4. Description of Test Facility	6
1.5. Measurement Uncertainty	7
2. MEASURING DEVICE AND TEST EQUIPMENT	8
3. OPERATION OF EUT DURING TESTING	9
3.1. Operating Mode.....	9
3.2. Configuration and peripherals	9
4. TEST PROCEDURES AND RESULTS	10
5. 6DB BANDWIDTH MEASUREMENT	11
5.1. Block Diagram of Test Setup.....	11
5.2. The Requirement For Section 15.247(a)(2).....	11
5.3. EUT Configuration on Measurement	11
5.4. Operating Condition of EUT	11
5.5. Test Procedure	11
5.6. Test Result	12
6. MAXIMUM OUTPUT POWER.....	19
6.1. Block Diagram of Test Setup.....	19
6.2. The Requirement For Section 15.247(b)(3).....	19
6.3. EUT Configuration on Measurement	19
6.4. Operating Condition of EUT	19
6.5. Test Procedure	19
6.6. Test Result	20
7. POWER SPECTRAL DENSITY MEASUREMENT.....	27
7.1. Block Diagram of Test Setup.....	27
7.2. The Requirement For Section 15.247(e).....	27
7.3. EUT Configuration on Measurement	27
7.4. Operating Condition of EUT	27
7.5. Test Procedure	27
7.6. Test Result	28
8. BAND EDGE COMPLIANCE TEST	35
8.1. Block Diagram of Test Setup.....	35
8.2. The Requirement For Section 15.247(d)	35
8.3. EUT Configuration on Measurement	35
8.4. Operating Condition of EUT	35
8.5. Test Procedure	35
8.6. Test Result	36
9. RADIATED SPURIOUS EMISSION TEST	57
9.1. Block Diagram of Test Setup.....	57
9.2. The Limit For Section 15.247(d)	57
9.3. Restricted bands of operation	58
9.4. Configuration of EUT on Measurement	58

9.5.	Operating Condition of EUT	58
9.6.	Test Procedure	59
9.7.	The Field Strength of Radiation Emission Measurement Results	59
10.	CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST.....	86
10.1.	Block Diagram of Test Setup.....	86
10.2.	The Requirement For Section 15.247(d)	86
10.3.	EUT Configuration on Measurement	86
10.4.	Operating Condition of EUT	86
10.5.	Test Procedure	87
10.6.	Test Result	87
11.	AC POWER LINE CONDUCTED EMISSION FOR FCC PART 15 SECTION 15.207(A) ..	94
11.1.	Block Diagram of Test Setup.....	94
11.2.	The Emission Limit	94
11.3.	Configuration of EUT on Measurement	95
11.4.	Operating Condition of EUT	95
11.5.	Test Procedure	95
11.6.	Power Line Conducted Emission Measurement Results	95
12.	ANTENNA REQUIREMENT.....	98
12.1.	The Requirement	98
12.2.	Antenna Construction	98

Test Report Certification

Applicant : IMC INTERNATIONAL INC.
 Manufacturer : IMC INTERNATIONAL INC.
 EUT Description : 5.5inch 3G TABLET
 (A) MODEL NO.: FORCE XT55SP
 (B) SERIAL NO.: N/A
 (C) POWER SUPPLY: DC 5V (Power by Adapter)&DC 3.7V (Battery)

Measurement Procedure Used:

FCC Rules and Regulations Part 15 Subpart C Section 15.247
ANSI C63.4: 2009

The EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 for compliance to FCC 47CFR 15.247 requirements

The device described above is tested by ACCURATE TECHNOLOGY CO. LTD to determine the maximum emission levels emanating from the device. The maximum emission levels are compared to the FCC Part 15 Subpart C Section 15.247 limits. The measurement results are contained in this test report and ACCURATE TECHNOLOGY CO. LTD is assumed full responsibility for the accuracy and completeness of these measurements. Also, this report shows that the Equipment Under Test (EUT) is to be technically compliant with the FCC requirements.

This report applies to above tested sample only. This report shall not be reproduced in part without written approval of ACCURATE TECHNOLOGY CO. LTD.

Date of Test :

June 18-July 07,2014

Prepared by :



(Engineer)

Approved & Authorized Signer :



(Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

EUT	: 5.5inch 3G TABLET
Model Number	: FORCE XT55SP
Frequency Range	: GSM 850: 824.2-848.8 MHz 124 Channels GSM 1900 : 1850.2-1909.8 MHz 299 Channels FDD V: 826.4-846.6 MHz 277 Channels FDD II : 1852.4-1907.6 MHz 102 Channels 802.11b/g/n (20MHz): 2412-2462MHz 11 Channels 802.11n (40MHz): 2422-2452MHz 7 Channels Bluetooth 4.0 LE: 2402-2480MHz 40 Channels Bluetooth 2.1: 2402-2480MHz 79 Channels
Modulation	: GSM GPRS: GMSK FDD: QPSK WLAN: CCK,OFDM BT:GFSK,Π/4-DQPSK, 8DPSK
Antenna Gain	: 0.5dBi(BT&WLAN) 1.5dBi(GSM & FDD)
Power Supply Adapter	: DC 5V (USB Port) &DC 3.7V (Battery) Model number: UBP-A806-051000 Input: AC 100-240V; 50/60Hz Output: DC 5V/1000mA USB line: Non-shielded, Non-detachable, 1.5m
Applicant	: IMC INTERNATIONAL INC.
Address	: 28E Jingang, Xixiang, Bao an District Shenzhen,Guangdong Province,China
Manufacturer	: IMC INTERNATIONAL INC.
Address	: 28E Jingang, Xixiang, Bao an District Shenzhen,Guangdong Province,China
Date of sample received	: June 18,2014
Date of Test	: June 18-July 07,2014

1.2. Carrier Frequency of Channels

802.11b, 802.11g, 802.11n (20MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
01	2412	07	2442
02	2417	08	2447
03	2422	09	2452
04	2427	10	2457
05	2432	11	2462
06	2437	---	---

802.11n (40MHz)

Channel	Frequency(MHz)	Channel	Frequency(MHz)
---	---	07	2442
---	---	08	2447
03	2422	09	2452
04	2427	---	---
05	2432	---	---
06	2437	---	---

1.3.Special Accessory and Auxiliary Equipment

n.a.

1.4. Description of Test Facility

EMC Lab

: Accredited by TUV Rheinland Shenzhen

Listed by FCC

The Registration Number is 752051

Listed by Industry Canada

The Registration Number is 5077A-2

Accredited by China National Accreditation Committee
for Laboratories

The Certificate Registration Number is L3193

Name of Firm

: ACCURATE TECHNOLOGY CO. LTD

Site Location

: F1, Bldg. A, Changyuan New Material Port, Keyuan Rd.
Science & Industry Park, Nanshan, Shenzhen, Guangdong
P.R. China

1.5.Measurement Uncertainty

Conducted Emission Expanded Uncertainty = 2.23dB, k=2

Radiated emission expanded uncertainty = 3.08dB, k=2
(9kHz-30MHz)

Radiated emission expanded uncertainty = 4.42dB, k=2
(30MHz-1000MHz)

Radiated emission expanded uncertainty = 4.06dB, k=2
(Above 1GHz)

2. MEASURING DEVICE AND TEST EQUIPMENT

Table 1: List of Test and Measurement Equipment

Kind of equipment	Manufacturer	Type	S/N	Calibrated dates	Calibrated until
EMI Test Receiver	Rohde&Schwarz	ESCS30	100307	Jan. 11, 2014	Jan. 10, 2015
EMI Test Receiver	Rohde&Schwarz	ESPI3	101526/003	Jan. 11, 2014	Jan. 10, 2015
Spectrum Analyzer	Agilent	E7405A	MY45115511	Jan. 11, 2014	Jan. 10, 2015
Pre-Amplifier	Rohde&Schwarz	CBLU118354 0-01	3791	Jan. 11, 2014	Jan. 10, 2015
Loop Antenna	Schwarzbeck	FMZB1516	1516131	Jan. 15, 2014	Jan. 14, 2015
Bilog Antenna	Schwarzbeck	VULB9163	9163-323	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-655	Jan. 15, 2014	Jan. 14, 2015
Horn Antenna	Schwarzbeck	BBHA9120D	9120D-1067	Jan. 15, 2014	Jan. 14, 2015
LISN	Rohde&Schwarz	ESH3-Z5	100305	Jan. 11, 2014	Jan. 10, 2015
LISN	Schwarzbeck	NSLK8126	8126431	Jan. 11, 2014	Jan. 10, 2015
Highpass Filter	Wainwright Instruments	WHKX3.6/18 G-10SS	N/A	Jan. 11, 2014	Jan. 10, 2015
Band Reject Filter	Wainwright Instruments	WRCG2400/2 485-2375/2510 -60/11SS	N/A	Jan. 11, 2014	Jan. 10, 2015

3. OPERATION OF EUT DURING TESTING

3.1. Operating Mode

The mode is used: **1.802.11b Transmitting mode**

Low Channel: 2412MHz
 Middle Channel: 2437MHz
 High Channel: 2462MHz

2.802.11g Transmitting mode

Low Channel: 2412MHz
 Middle Channel: 2437MHz
 High Channel: 2462MHz

3.802.11n (20MHz) Transmitting mode

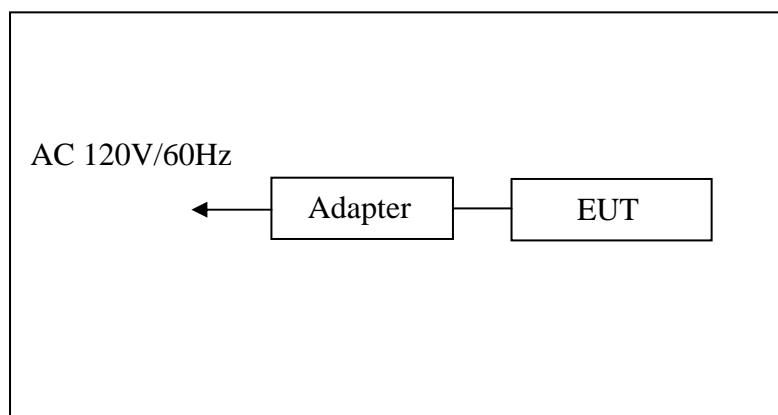
Low Channel: 2412MHz
 Middle Channel: 2437MHz
 High Channel: 2462MHz

4.802.11n (40MHz) Transmitting mode

Low Channel: 2422MHz
 Middle Channel: 2437MHz
 High Channel: 2452MHz

5. Charging

3.2. Configuration and peripherals



4. TEST PROCEDURES AND RESULTS

FCC Rules	Description of Test	Result
Section 15.247(a)(2)	6dB Bandwidth Test	Compliant
Section 15.247(e)	Power Spectral Density Test	Compliant
Section 15.247(b)(3)	Maximum Peak Output Power Test	Compliant
Section 15.247(d)	Band Edge Compliance Test	Compliant
Section 15.247(d) Section 15.209	Radiated Spurious Emission Test	Compliant
Section 15.247(d)	Conducted Spurious Emission Test	Compliant
Section 15.207	AC Power Line Conducted Emission Test	Compliant
Section 15.203	Antenna Requirement	Compliant

5. 6DB BANDWIDTH MEASUREMENT

5.1. Block Diagram of Test Setup



5.2. The Requirement For Section 15.247(a)(2)

Section 15.247(a)(2): Systems using digital modulation techniques may operate in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz.

5.3. EUT Configuration on Measurement

The equipment are installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

5.4. Operating Condition of EUT

5.4.1. Setup the EUT and simulator as shown as Section 5.1.

5.4.2. Turn on the power of all equipment.

5.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

5.5. Test Procedure

1. Set resolution bandwidth (RBW) = 100 kHz.
2. Set the video bandwidth (VBW) $\geq 3 \times$ RBW.
3. Detector = Peak.
4. Trace mode = max hold.
5. Sweep = auto couple.
6. Allow the trace to stabilize.
7. Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.6. Test Result

The test was performed with 802.11b			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	10.16	> 0.5MHz
Middle	2437	10.20	> 0.5MHz
High	2462	10.16	> 0.5MHz

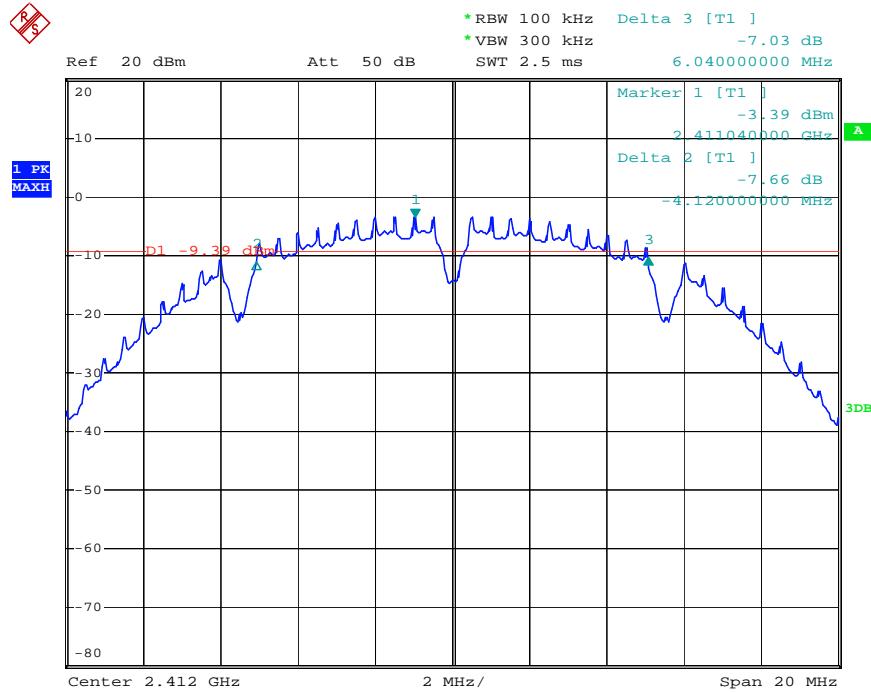
The test was performed with 802.11g			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	16.60	> 0.5MHz
Middle	2437	16.64	> 0.5MHz
High	2462	16.60	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 20 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2412	17.72	> 0.5MHz
Middle	2437	17.76	> 0.5MHz
High	2462	17.68	> 0.5MHz

The test was performed with 802.11n (Bandwidth: 40 MHz)			
Channel	Frequency (MHz)	6dB Bandwidth (MHz)	Limit (MHz)
Low	2422	36.40	> 0.5MHz
Middle	2437	36.56	> 0.5MHz
High	2452	36.48	> 0.5MHz

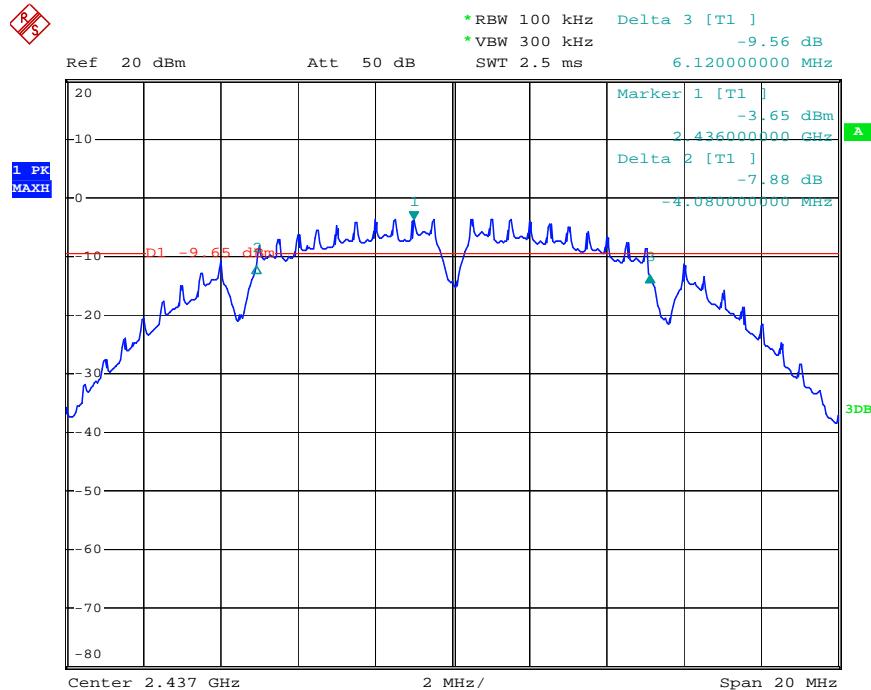
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



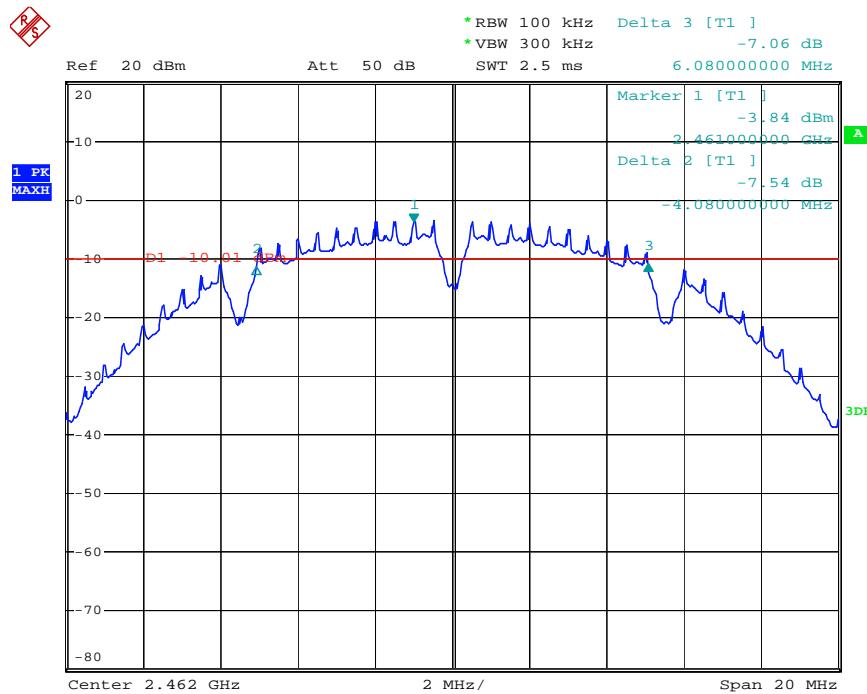
Date: 1.JUL.2014 10:14:27

802.11b Channel Middle 2437MHz



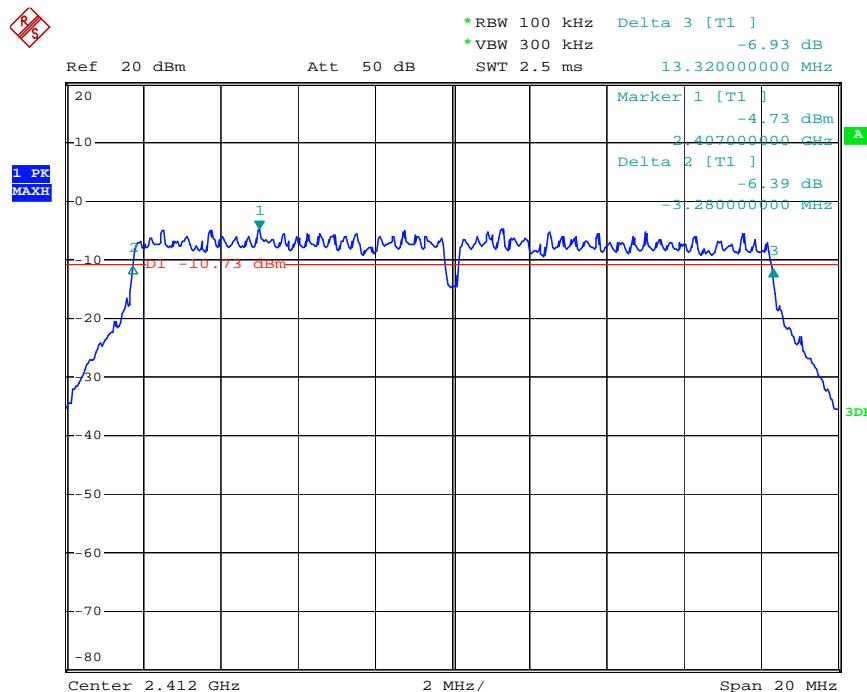
Date: 1.JUL.2014 10:26:26

802.11b Channel High 2462MHz



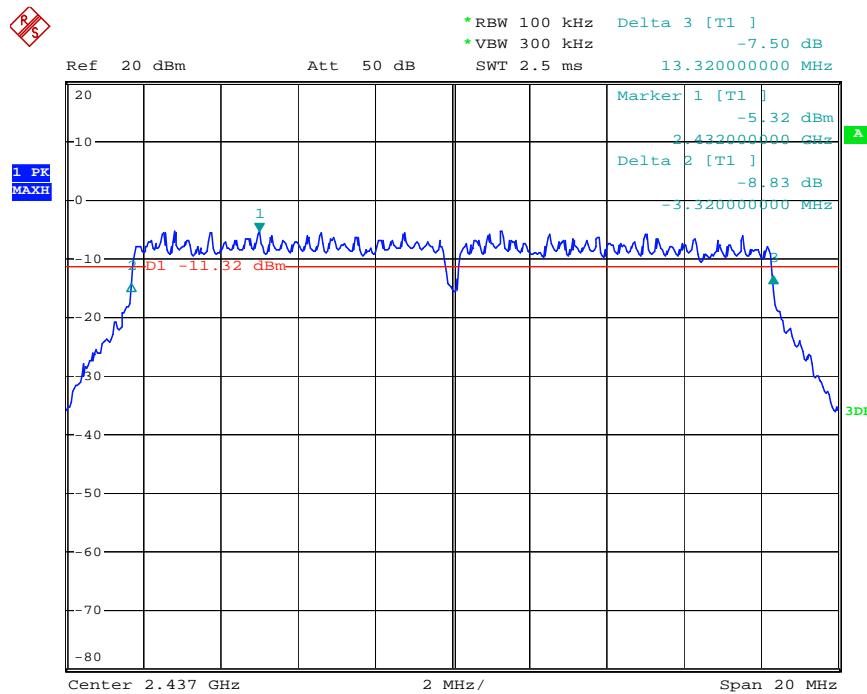
Date: 1.JUL.2014 10:33:26

802.11g Channel Low 2412MHz



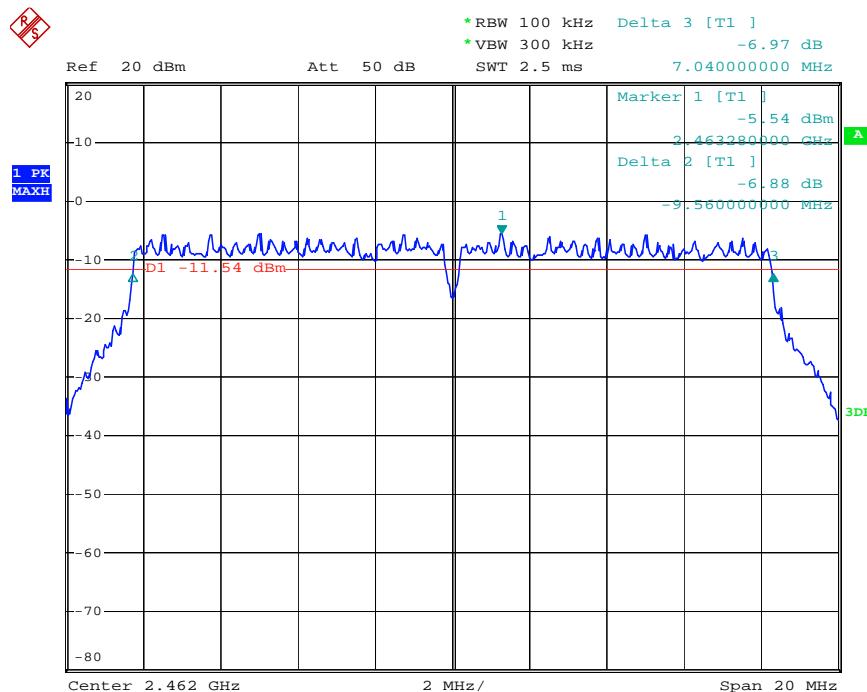
Date: 1.JUL.2014 10:41:54

802.11g Channel Middle 2437MHz



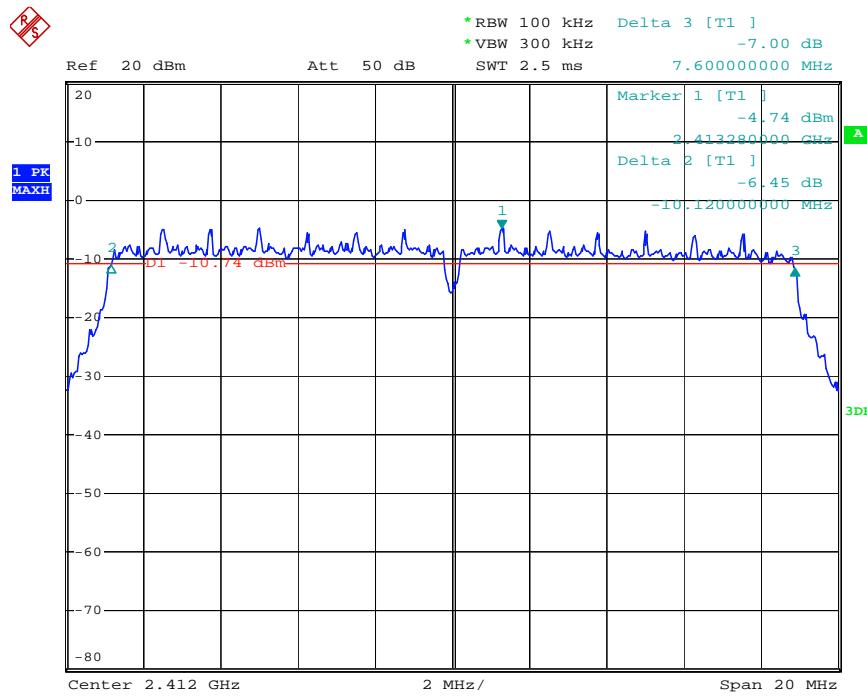
Date: 1.JUL.2014 10:39:03

802.11g Channel High 2462MHz



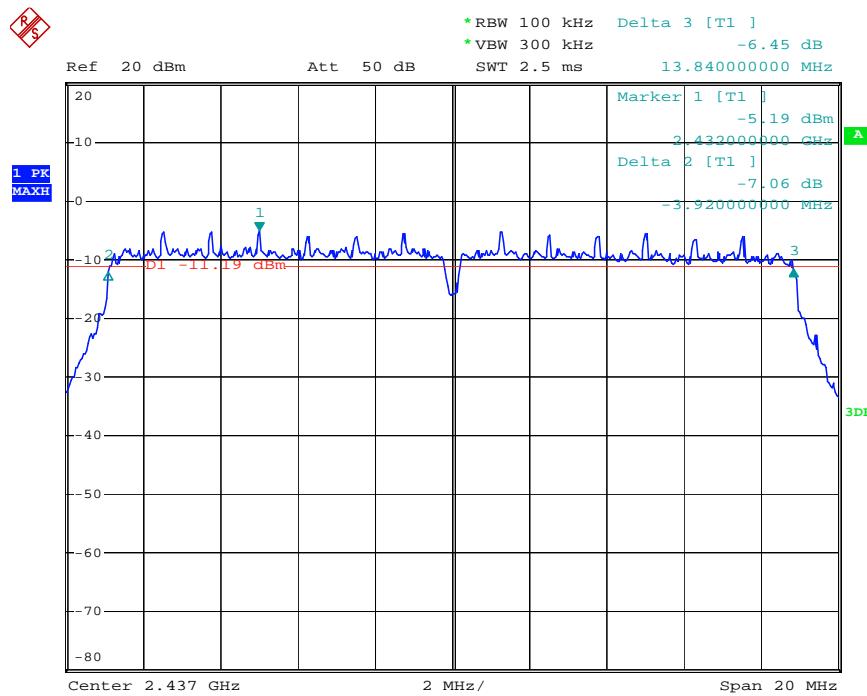
Date: 1.JUL.2014 10:37:14

802.11n Channel Low 2412MHz (20MHz)



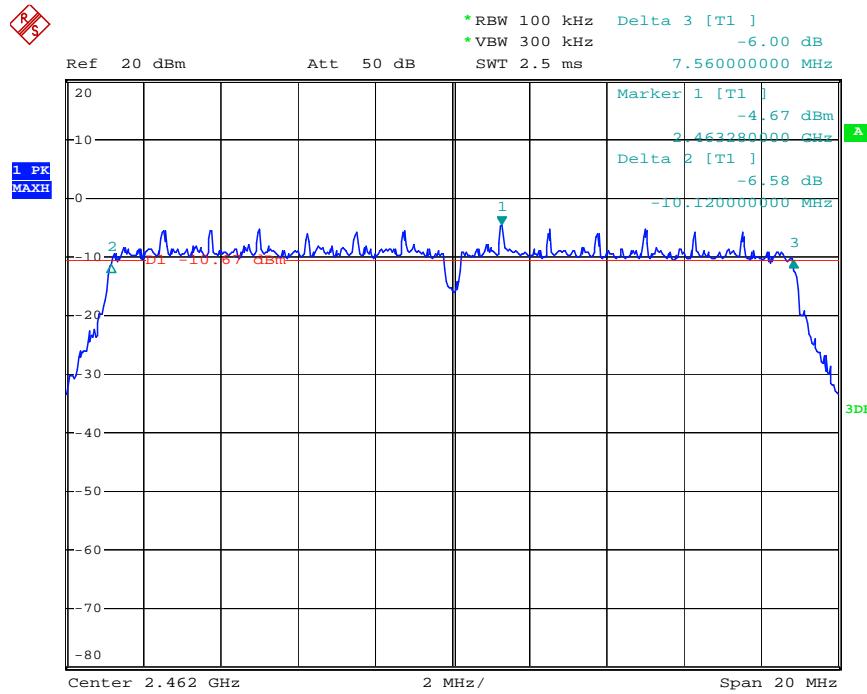
Date: 1.JUL.2014 10:44:22

802.11n Channel Middle 2437MHz(20MHz)



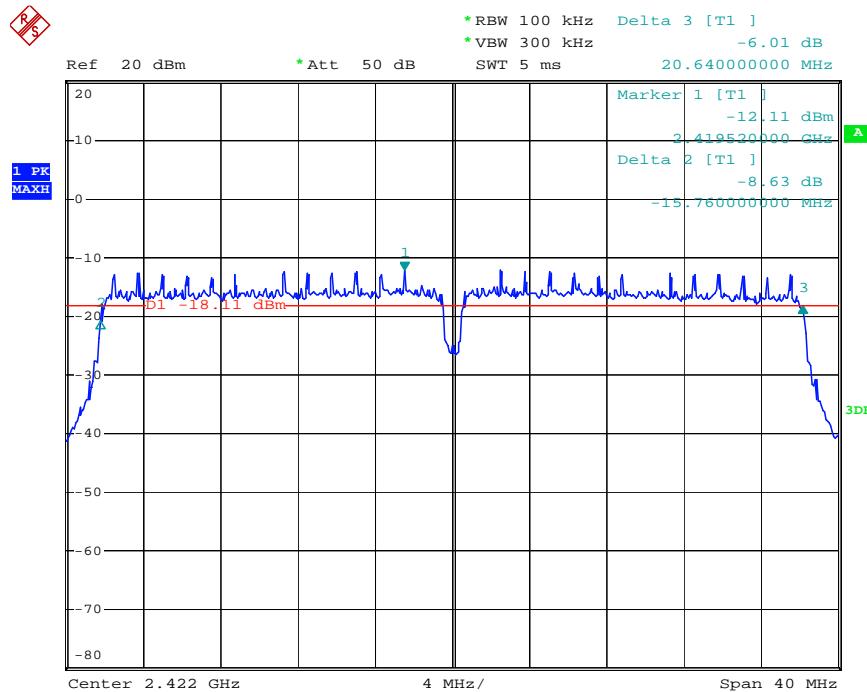
Date: 1.JUL.2014 10:47:12

802.11n Channel High 2462MHz(20MHz)



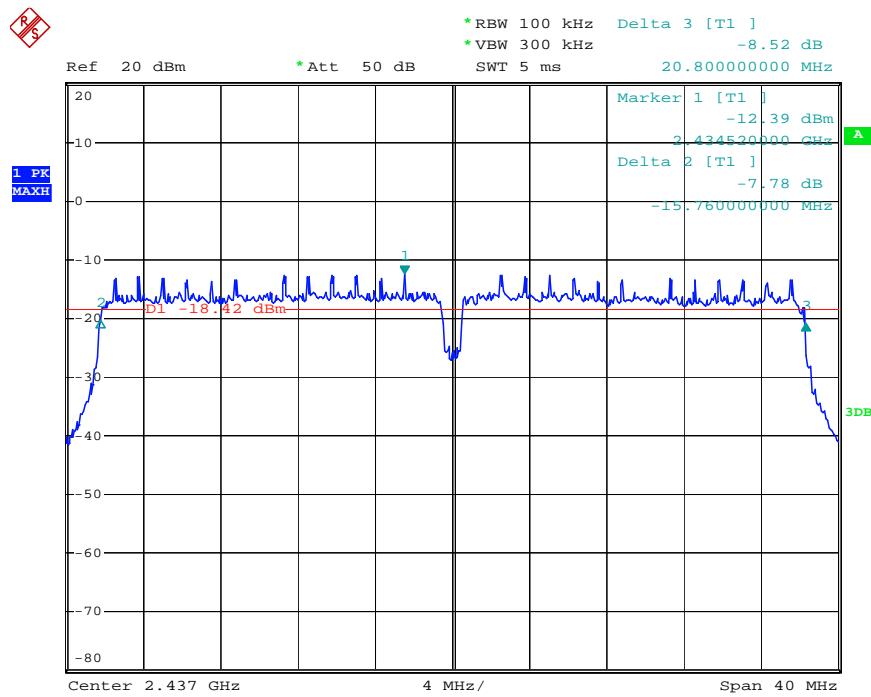
Date: 1.JUL.2014 10:50:10

802.11n Channel Low 2422MHz (40MHz)



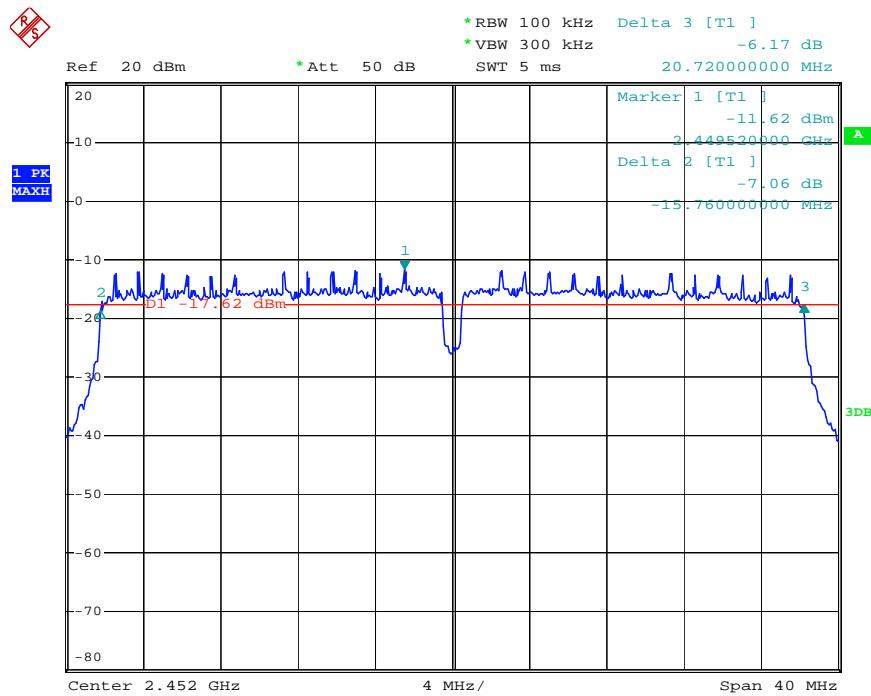
Date: 1.JUL.2014 10:56:20

802.11n Channel Middle 2437MHz(40MHz)



Date: 1.JUL.2014 10:58:10

802.11n Channel High 2452MHz(40MHz)



Date: 1.JUL.2014 11:01:18

6. MAXIMUM OUTPUT POWER

6.1. Block Diagram of Test Setup



6.2. The Requirement For Section 15.247(b)(3)

Section 15.247(b)(3): For systems using digital modulation in the 902-928MHz, 2400-2483.5MHz, and 5725-5850MHz bands: 1 Watt.

6.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

6.4. Operating Condition of EUT

6.4.1. Setup the EUT and simulator as shown as Section 6.1.

6.4.2. Turn on the power of all equipment.

6.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

6.5. Test Procedure

6.5.1. The EUT was tested according to DTS test procedure of Jun 05, 2014 KDB558074 D01 DTS Meas Guidance v03r02 for compliance to FCC 47CFR 15.247 requirements.

6.5.2. The transmitter output was connected to the spectrum analyzer through a low loss cable.

6.5.3. Set RBW of spectrum analyzer to 1-5% of the OBW, not to exceed 1 MHz and $VBW \geq 3 \times RBW$.

6.5.4. Measurement the maximum Average output power.

6.6. Test Result

The test was performed with 802.11b				
Channel	Frequency (MHz)	Average Output Power(dBm)	Average Output Power(mW)	Limits dBm / W
Low	2412	9.22	8.36	30 dBm / 1 W
Middle	2437	9.07	8.07	30 dBm / 1 W
High	2462	9.74	9.42	30 dBm / 1 W

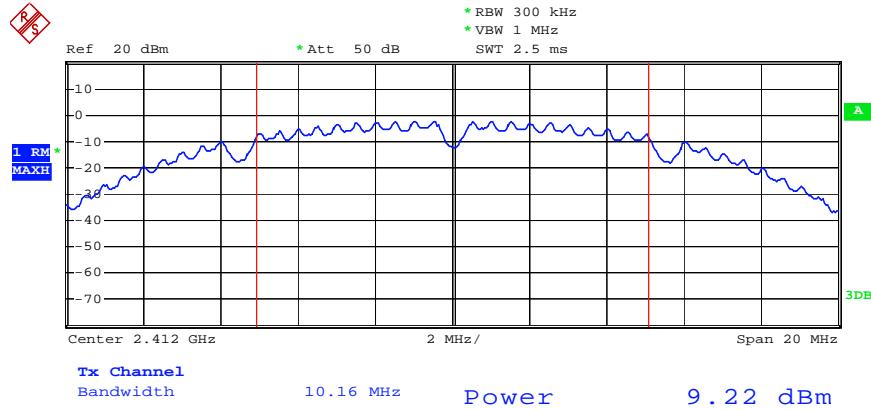
The test was performed with 802.11g				
Channel	Frequency (MHz)	Average Output Power(dBm)	Average Output Power(mW)	Limits dBm / W
Low	2412	7.80	6.03	30 dBm / 1 W
Middle	2437	7.58	5.73	30 dBm / 1 W
High	2462	7.67	5.85	30 dBm / 1 W

The test was performed with 802.11n (20MHz)				
Channel	Frequency (MHz)	Average Output Power(dBm)	Average Output Power(mW)	Limits dBm / W
Low	2412	6.65	4.62	30 dBm / 1 W
Middle	2437	6.10	4.07	30 dBm / 1 W
High	2462	6.19	4.16	30 dBm / 1 W

The test was performed with 802.11n (40MHz)				
Channel	Frequency (MHz)	Average Output Power(dBm)	Average Output Power(mW)	Limits dBm / W
Low	2422	5.29	3.38	30 dBm / 1 W
Middle	2437	5.41	3.48	30 dBm / 1 W
High	2452	5.23	3.33	30 dBm / 1 W

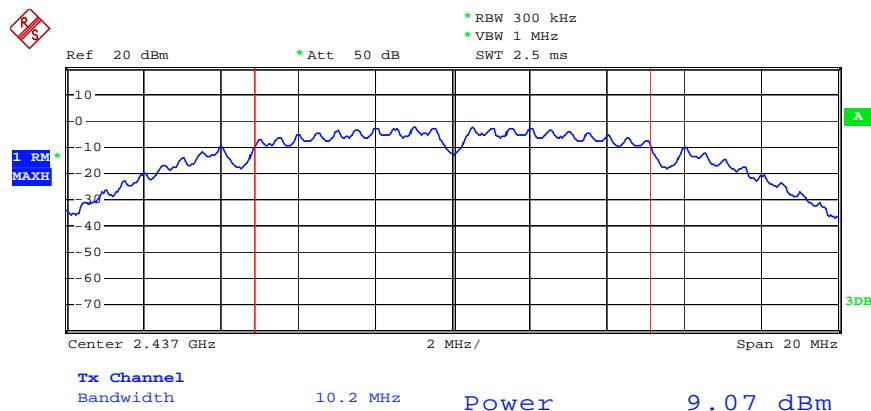
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



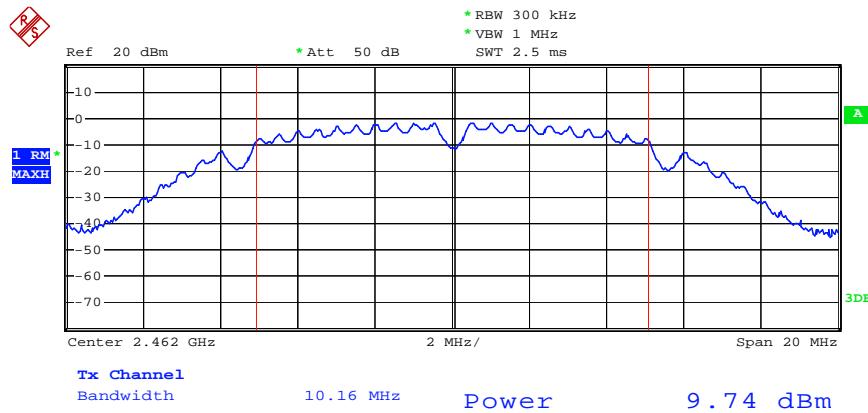
Date: 1.JUL.2014 13:45:43

802.11b Channel Middle 2437MHz



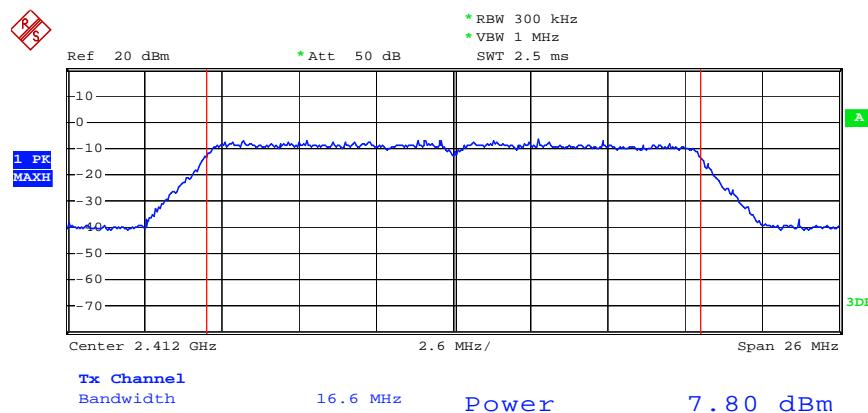
Date: 1.JUL.2014 13:47:55

802.11b Channel High 2462MHz



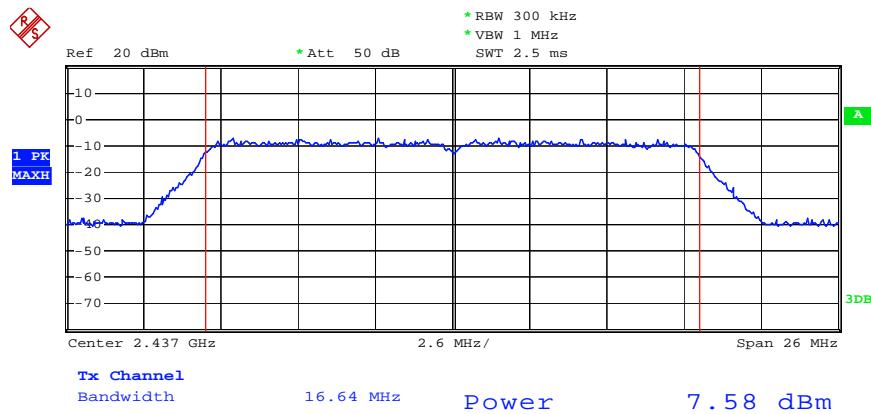
Date: 1.JUL.2014 13:46:58

802.11g Channel Low 2412MHz



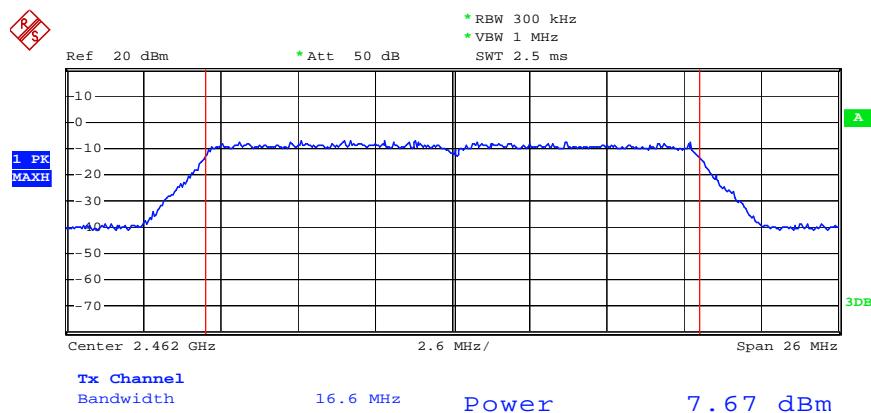
Date: 1.JUL.2014 11:35:54

802.11g Channel Middle 2437MHz



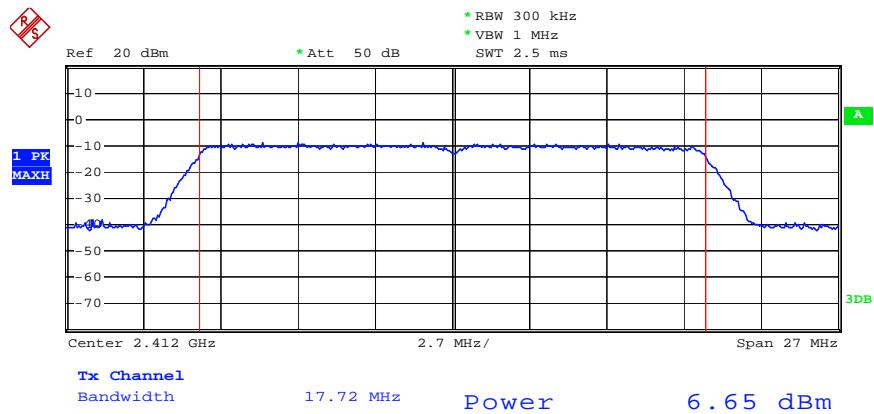
Date: 1.JUL.2014 11:37:24

802.11g Channel High 2462MHz



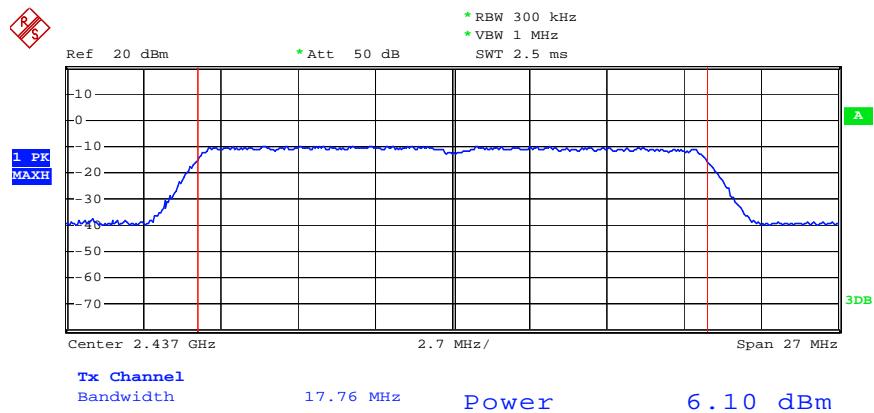
Date: 1.JUL.2014 11:35:02

802.11n Channel Low 2412MHz (20MHz)



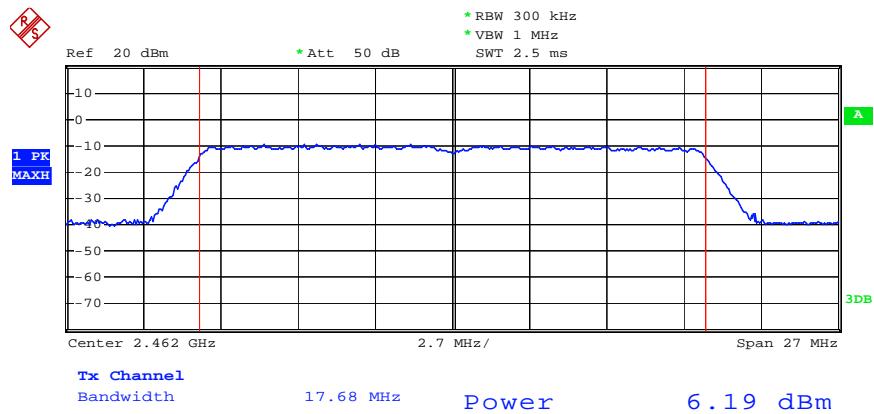
Date: 1.JUL.2014 11:26:37

802.11n Channel Middle 2437MHz (20MHz)



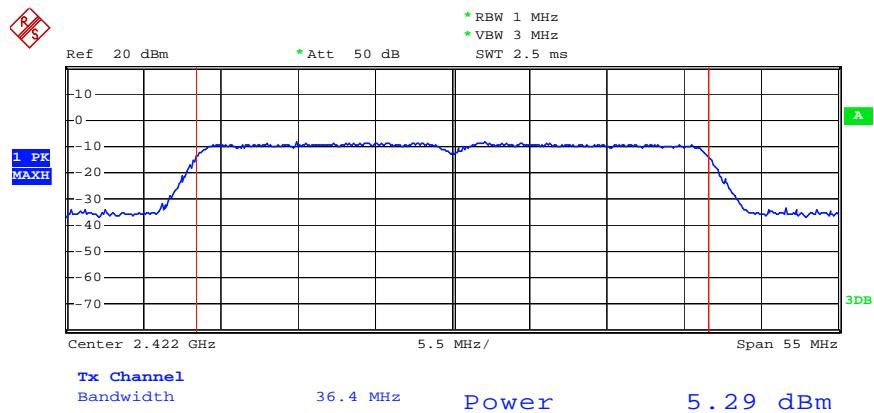
Date: 1.JUL.2014 11:23:43

802.11n Channel High 2462MHz (20MHz)



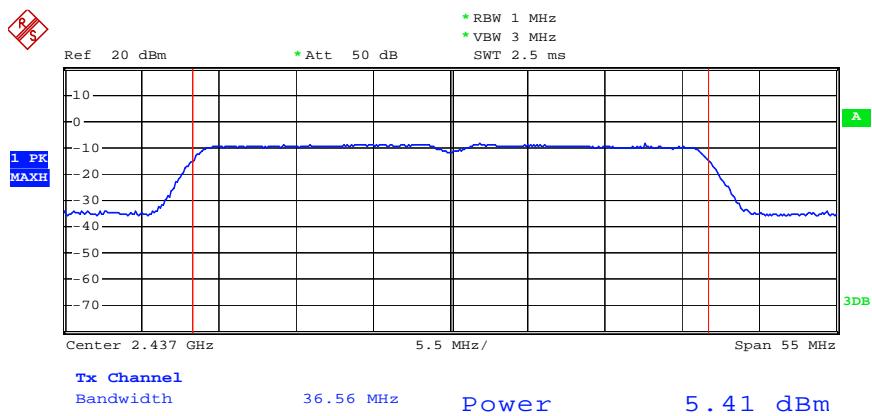
Date: 1.JUL.2014 11:28:24

802.11n Channel Low 2422MHz (40MHz)



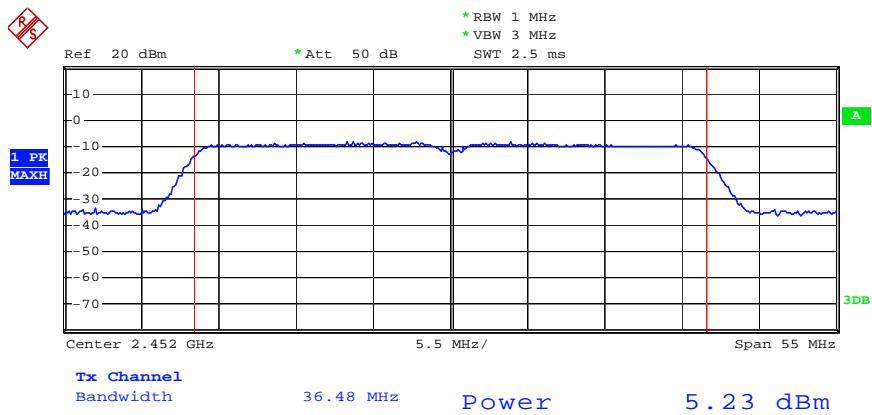
Date: 1.JUL.2014 11:17:09

802.11n Channel Middle 2437MHz (40MHz)



Date: 1.JUL.2014 11:15:47

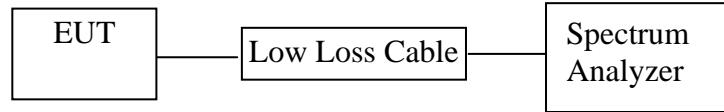
802.11n Channel High 2452MHz (40MHz)



Date: 1.JUL.2014 11:14:55

7. POWER SPECTRAL DENSITY MEASUREMENT

7.1. Block Diagram of Test Setup



7.2. The Requirement For Section 15.247(e)

Section 15.247(e): For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission.

7.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

7.4. Operating Condition of EUT

7.4.1. Setup the EUT and simulator as shown as Section 7.1.

7.4.2. Turn on the power of all equipment.

7.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

7.5. Test Procedure

7.5.1. The transmitter output was connected to the spectrum analyzer through a low loss cable.

7.5.2. Measurement Procedure PKPSD:

This procedure must be used if maximum peak conducted output power was used to demonstrate compliance to the fundamental output power limit, and is optional if the maximum (average) conducted output power was used to demonstrate compliance.

1. Set analyzer center frequency to DTS channel center frequency.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.

4. Set the VBW $\geq 3 \times$ RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

7.5.3. Measurement the maximum power spectral density.

7.6. Test Result

The test was performed with 802.11b			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-17.60	8 dBm
Middle	2437	-18.70	8 dBm
High	2462	-18.27	8 dBm

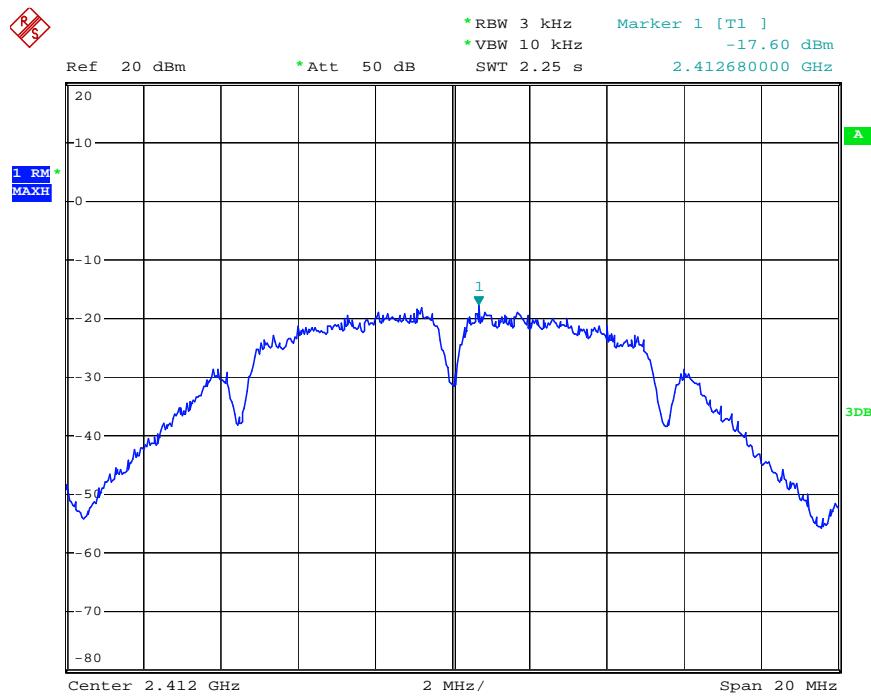
The test was performed with 802.11g			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-26.29	8 dBm
Middle	2437	-24.60	8 dBm
High	2462	-25.98	8 dBm

The test was performed with 802.11n (20MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2412	-24.90	8 dBm
Middle	2437	-24.33	8 dBm
High	2462	-25.90	8 dBm

The test was performed with 802.11n (40MHz)			
Channel	Frequency (MHz)	Power Spectral Density (dBm)	Limits (dBm)
Low	2422	-31.31	8 dBm
Middle	2437	-33.02	8 dBm
High	2452	-31.22	8 dBm

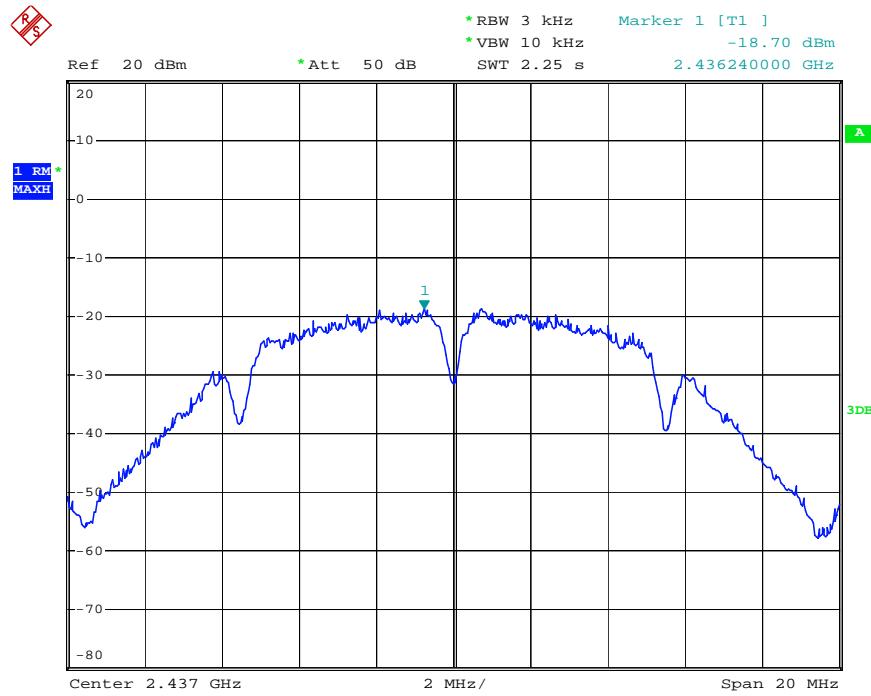
The spectrum analyzer plots are attached as below.

802.11b Channel Low 2412MHz



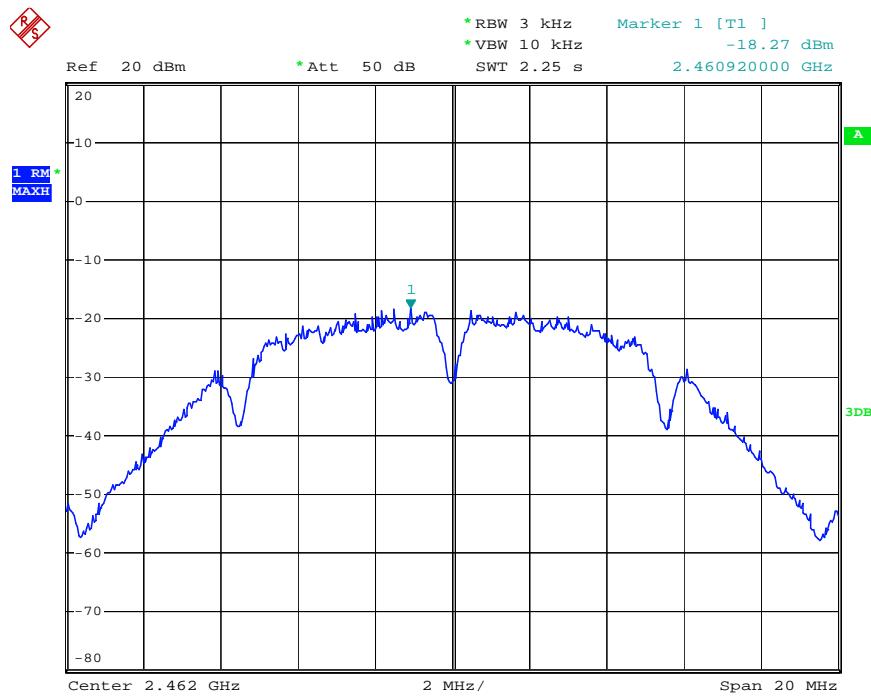
Date: 1.JUL.2014 13:50:06

802.11b Channel Middle 2437MHz



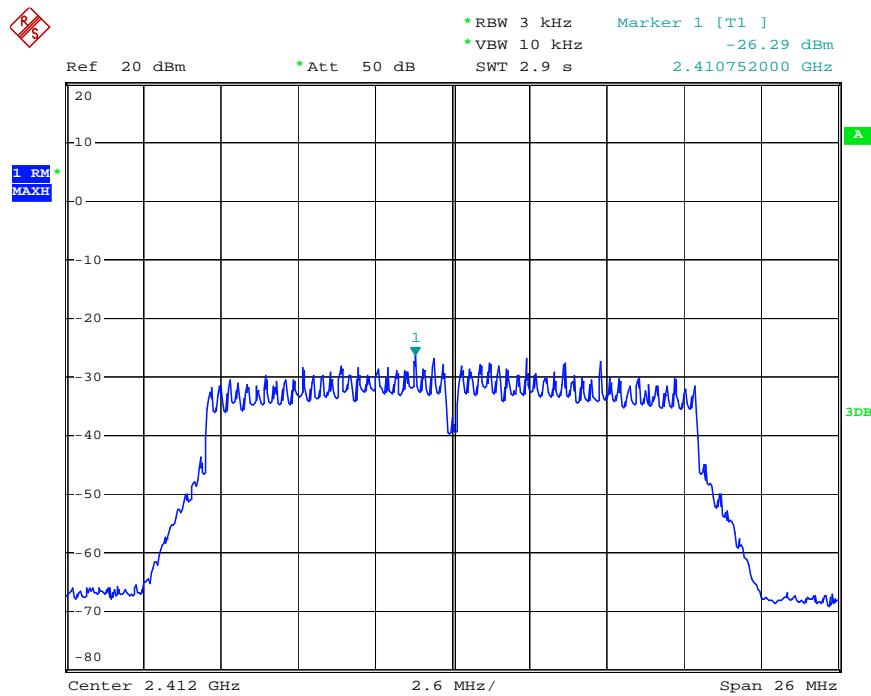
Date: 1.JUL.2014 13:50:35

802.11b Channel High 2462MHz



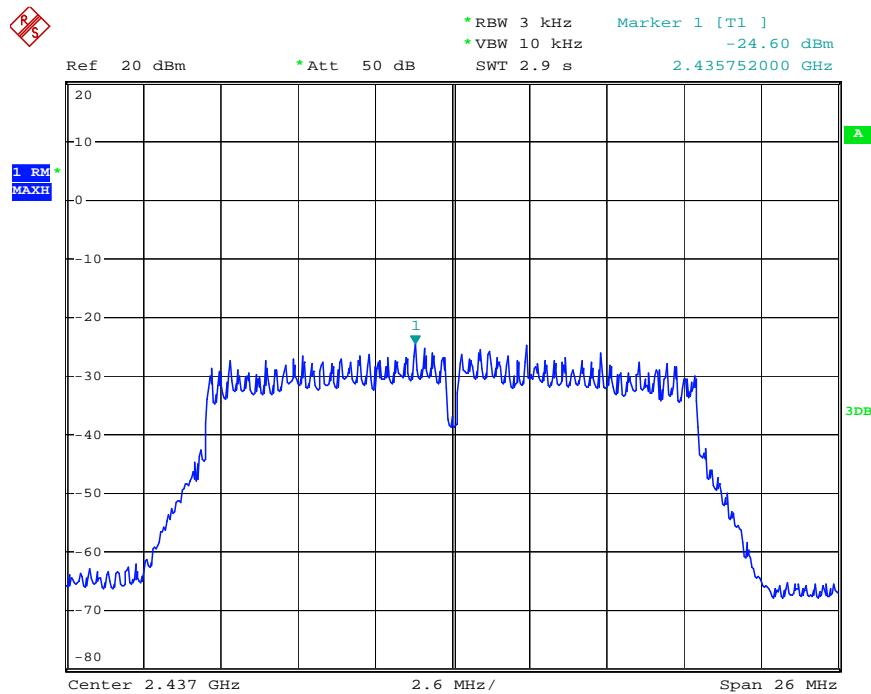
Date: 1.JUL.2014 13:51:03

802.11g Channel Low 2412MHz



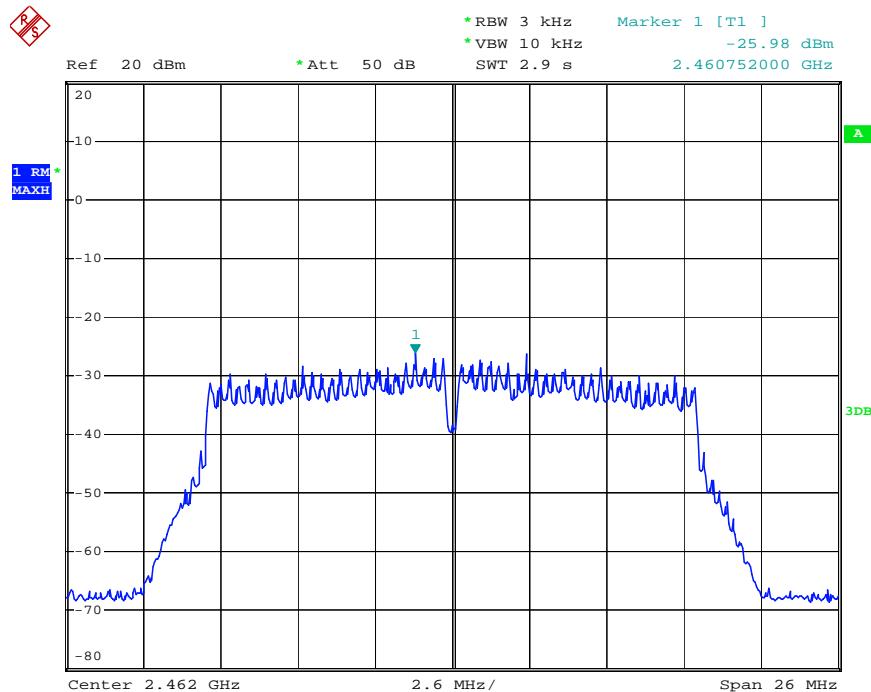
Date: 1.JUL.2014 13:54:18

802.11g Channel Middle 2437MHz



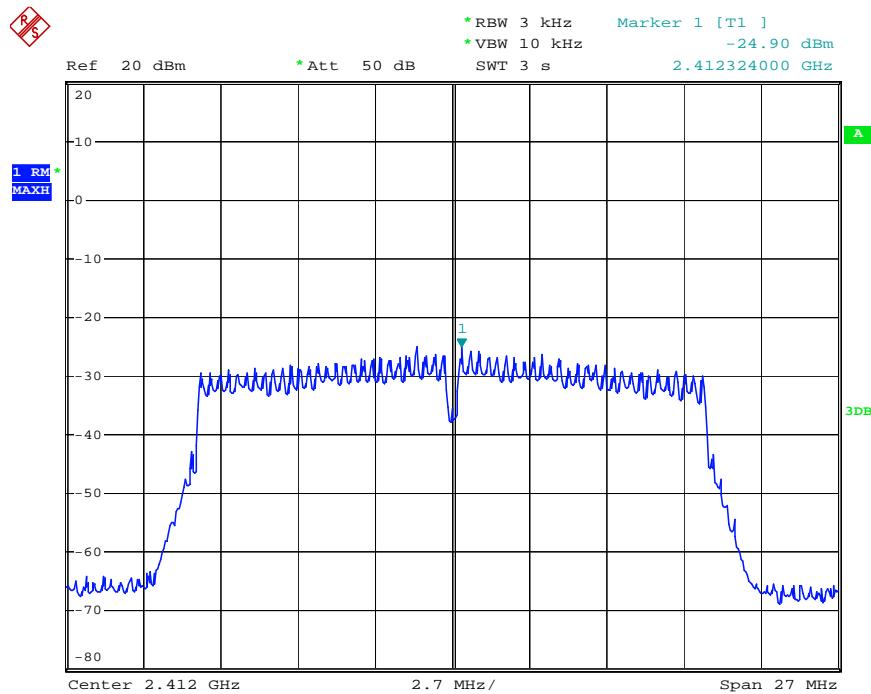
Date: 1.JUL.2014 13:53:38

802.11g Channel High 2462MHz



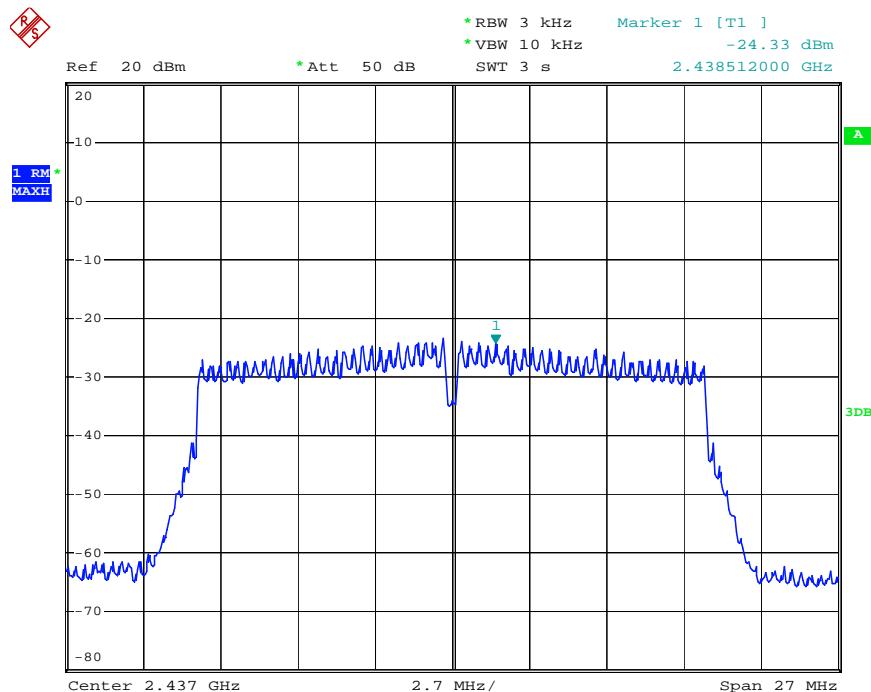
Date: 1.JUL.2014 13:53:04

802.11n Channel Low 2412MHz (20MHz)



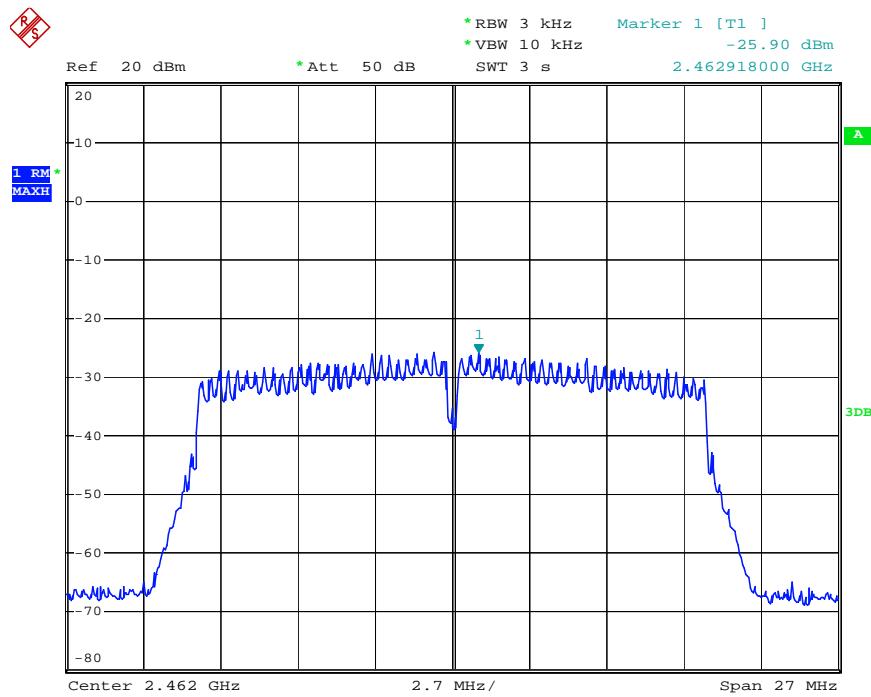
Date: 1.JUL.2014 13:55:00

802.11n Channel Middle 2437MHz (20MHz)



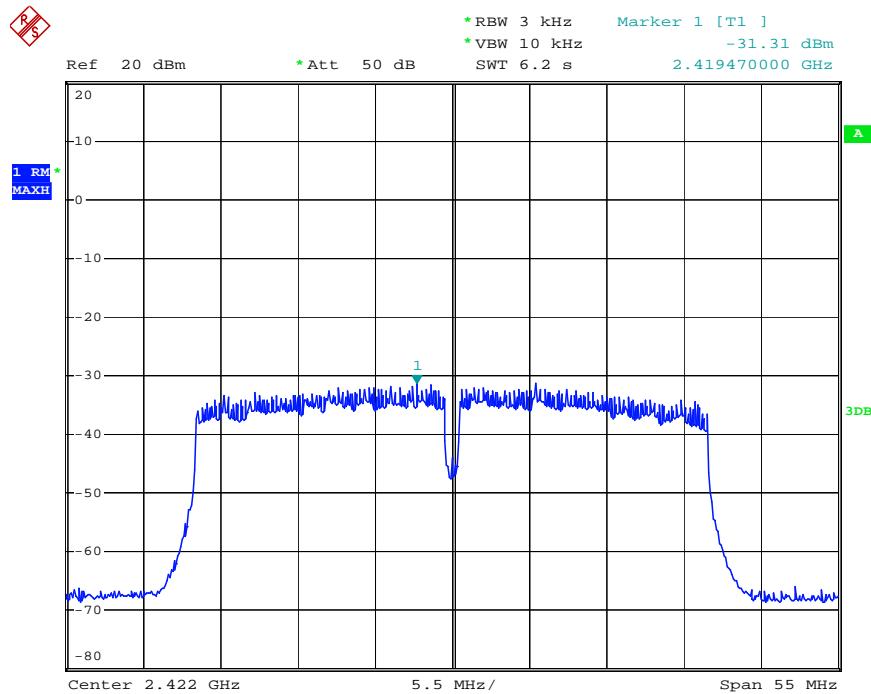
Date: 1.JUL.2014 13:57:22

802.11n Channel High 2462MHz(20MHz)



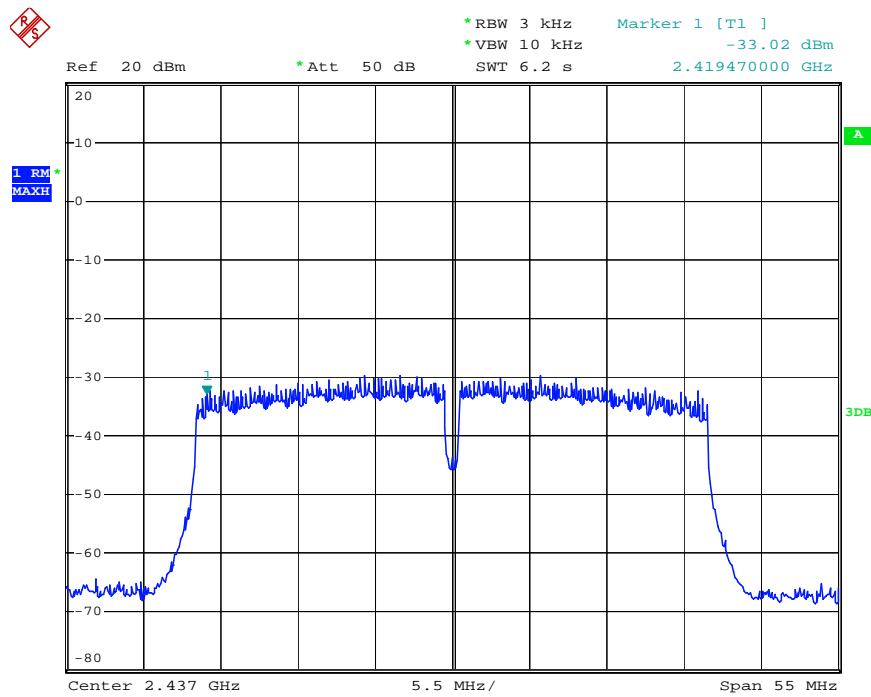
Date: 1.JUL.2014 13:57:45

802.11n Channel Low 2422MHz (40MHz)



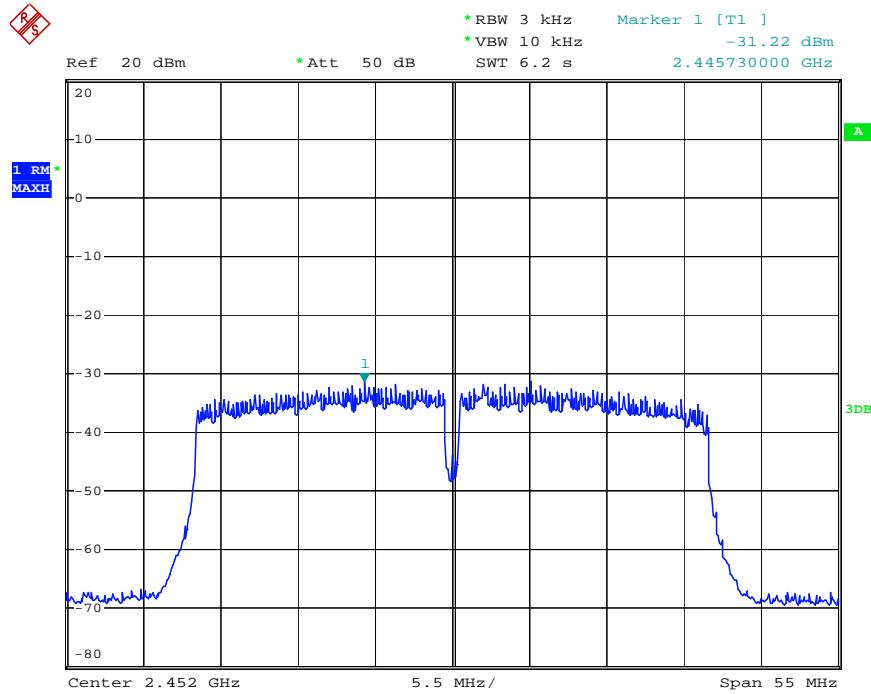
Date: 1.JUL.2014 13:58:31

802.11n Channel Middle 2437MHz(40MHz)



Date: 1.JUL.2014 13:59:15

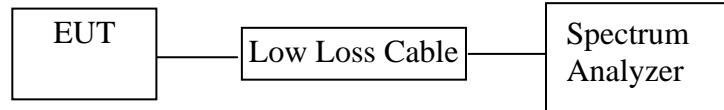
802.11n Channel High 2452MHz(40MHz)



Date: 1.JUL.2014 13:59:41

8. BAND EDGE COMPLIANCE TEST

8.1. Block Diagram of Test Setup



8.2. The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

8.3. EUT Configuration on Measurement

The equipment are installed on the emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

8.4. Operating Condition of EUT

8.4.1. Setup the EUT and simulator as shown as Section 8.1.

8.4.2. Turn on the power of all equipment.

8.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz MHz. We select 2412MHz, 2462MHz and 2422MHz, 2452MHz TX frequency to transmit.

8.5. Test Procedure

Conducted Band Edge:

8.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.

8.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz.

Radiate Band Edge:

8.5.3. The EUT is placed on a turntable, which is 0.8m above the ground plane and worked at highest radiated power.

8.5.4. The turntable was rotated for 360 degrees to determine the position of maximum emission level.

8.5.5. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emission.

8.5.6. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission:

Set RBW (1 MHz), VBW (3MHz) for Peak detector, RBW (1 MHz), VBW (10Hz) for AV detector.

8.5.7. The band edges were measured and recorded.

8.6. Test Result

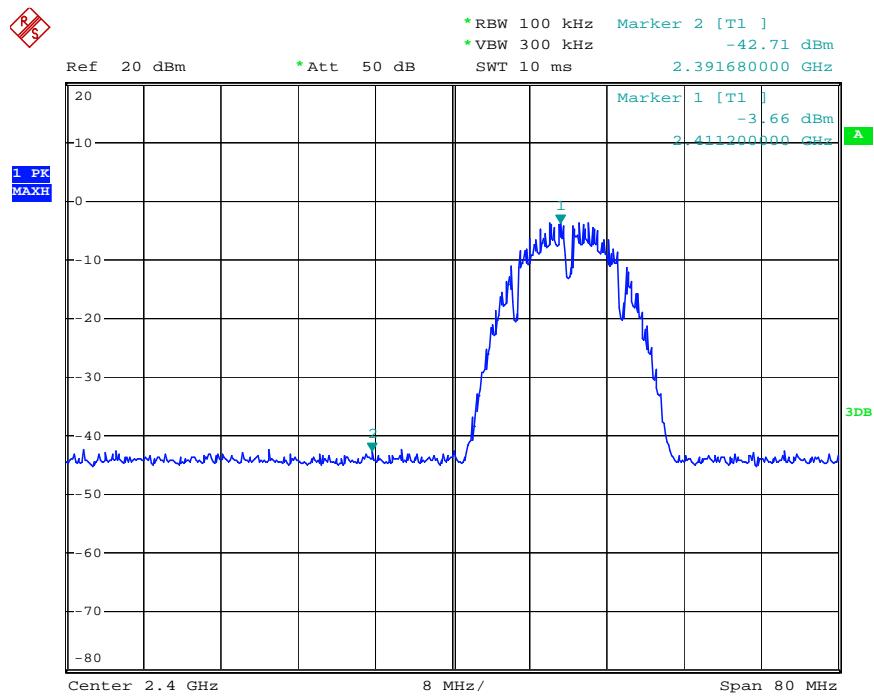
The test was performed with 802.11b			
<th>Frequency (MHz)</th> <th>Result of Band Edge (dBc)</th> <th>Limit of Band Edge (dBc)</th>	Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	39.05	> 20dBc	
2462	38.49	> 20dBc	

The test was performed with 802.11g			
<th>Frequency (MHz)</th> <th>Result of Band Edge (dBc)</th> <th>Limit of Band Edge (dBc)</th>	Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	36.34	> 20dBc	
2462	38.26	> 20dBc	

The test was performed with 802.11n (20MHz)			
<th>Frequency (MHz)</th> <th>Result of Band Edge (dBc)</th> <th>Limit of Band Edge (dBc)</th>	Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2412	34.73	> 20dBc	
2462	36.92	> 20dBc	

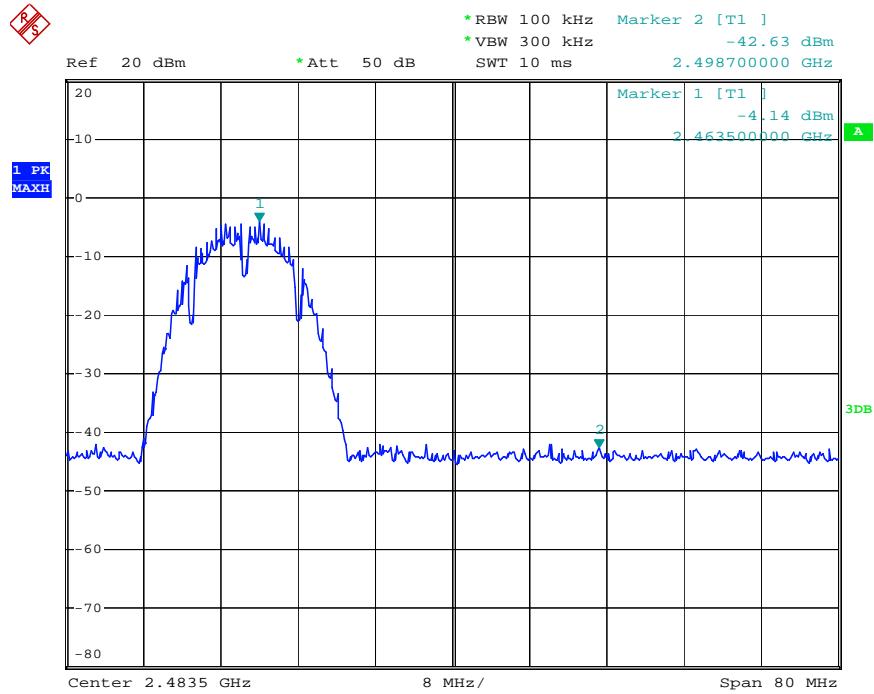
The test was performed with 802.11n (40MHz)			
<th>Frequency (MHz)</th> <th>Result of Band Edge (dBc)</th> <th>Limit of Band Edge (dBc)</th>	Frequency (MHz)	Result of Band Edge (dBc)	Limit of Band Edge (dBc)
2422	32.75	> 20dBc	
2452	34.60	> 20dBc	

802.11b Channel Low 2412MHz



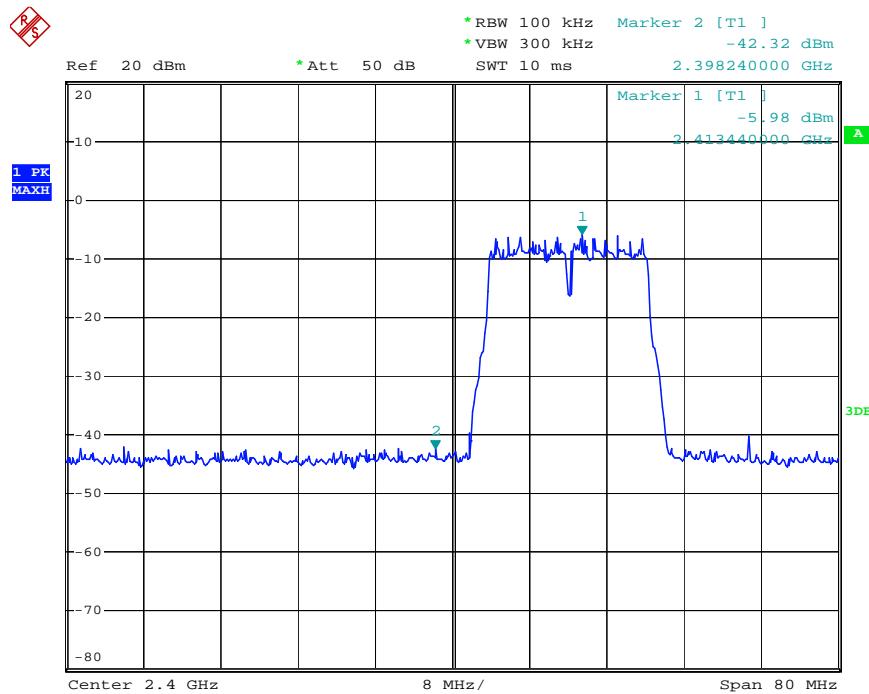
Date: 2.JUL.2014 17:10:58

802.11b Channel High 2462MHz



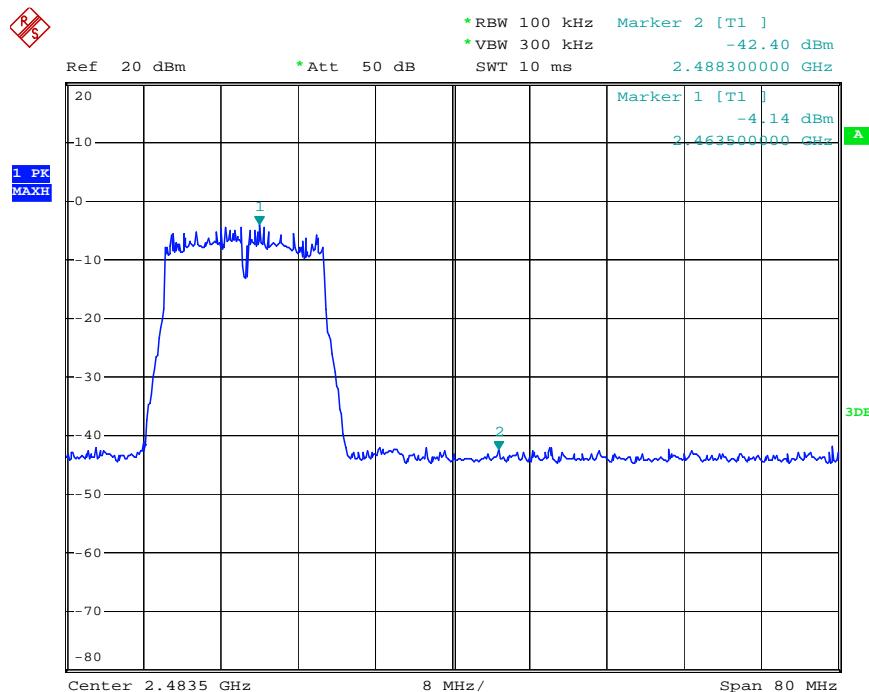
Date: 2.JUL.2014 17:02:14

802.11g Channel Low 2412MHz



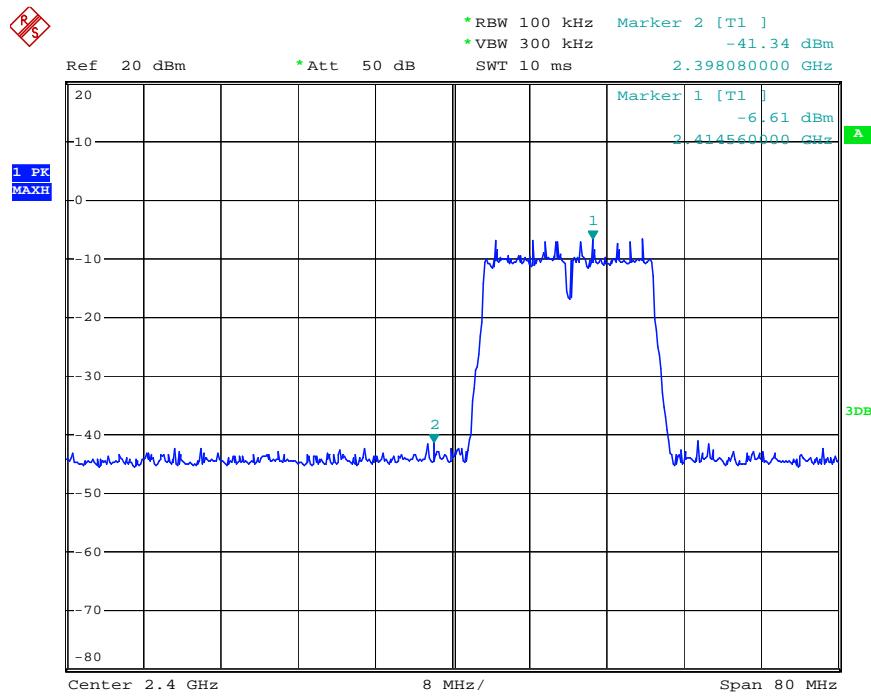
Date: 2.JUL.2014 17:03:48

802.11g Channel High 2462MHz



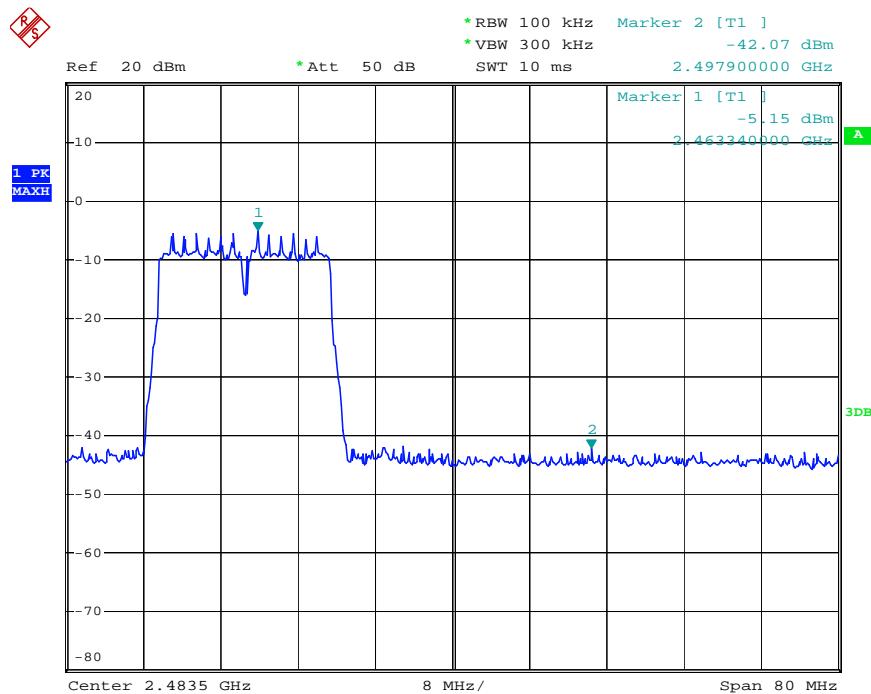
Date: 2.JUL.2014 17:03:01

802.11n Channel Low 2412MHz (20MHz)



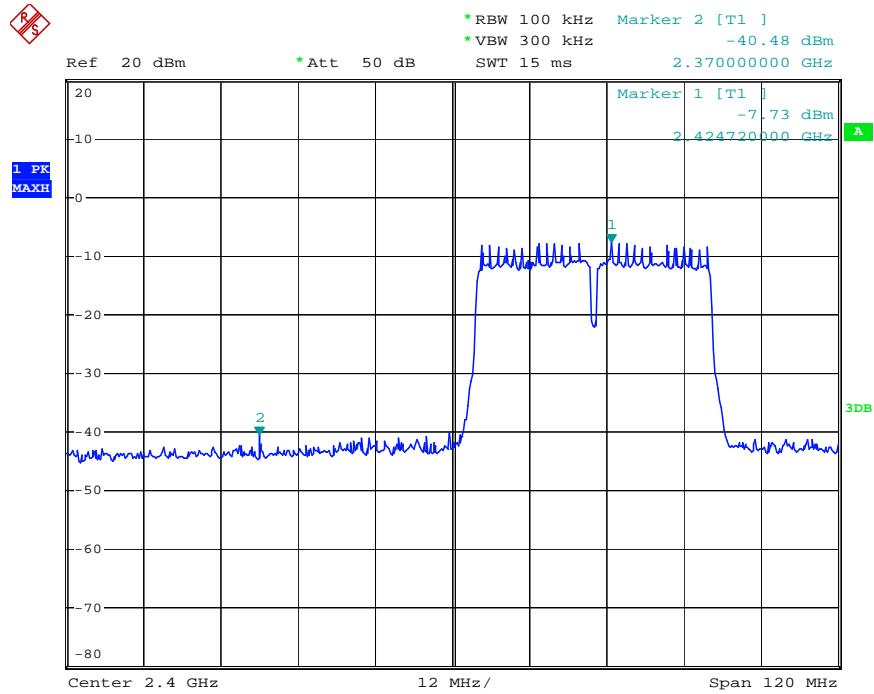
Date: 2.JUL.2014 17:04:31

802.11n Channel High 2462MHz (20MHz)



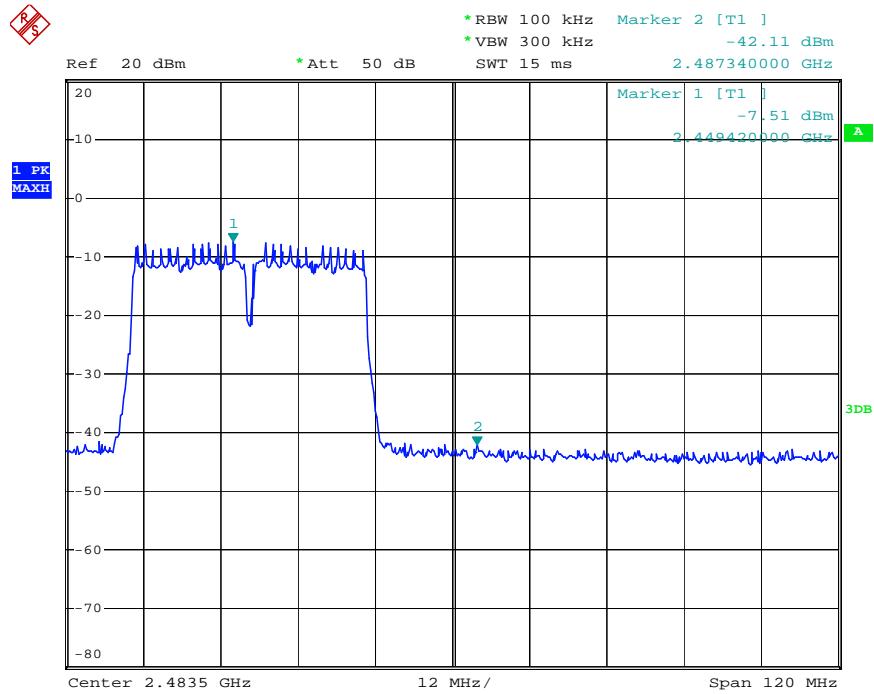
Date: 2.JUL.2014 17:05:23

802.11n Channel Low 2422MHz (40MHz)



Date: 2.JUL.2014 17:07:07

802.11n Channel High 2452MHz (40MHz)



Date: 2.JUL.2014 17:07:55

Radiated Band Edge Result

Note:

1. Emissions attenuated more than 20 dB below the permissible value are not reported.
2. The field strength is calculated by adding the antenna factor, high pass filter loss(if used) and cable loss, and subtracting the amplifier gain(if any)from the measured reading. The basic equation calculation is as follows:

$$\text{Result} = \text{Reading} + \text{Corrected Factor}$$
3. Display the measurement of peak values.



ACCURATE TECHNOLOGY CO., LTD.

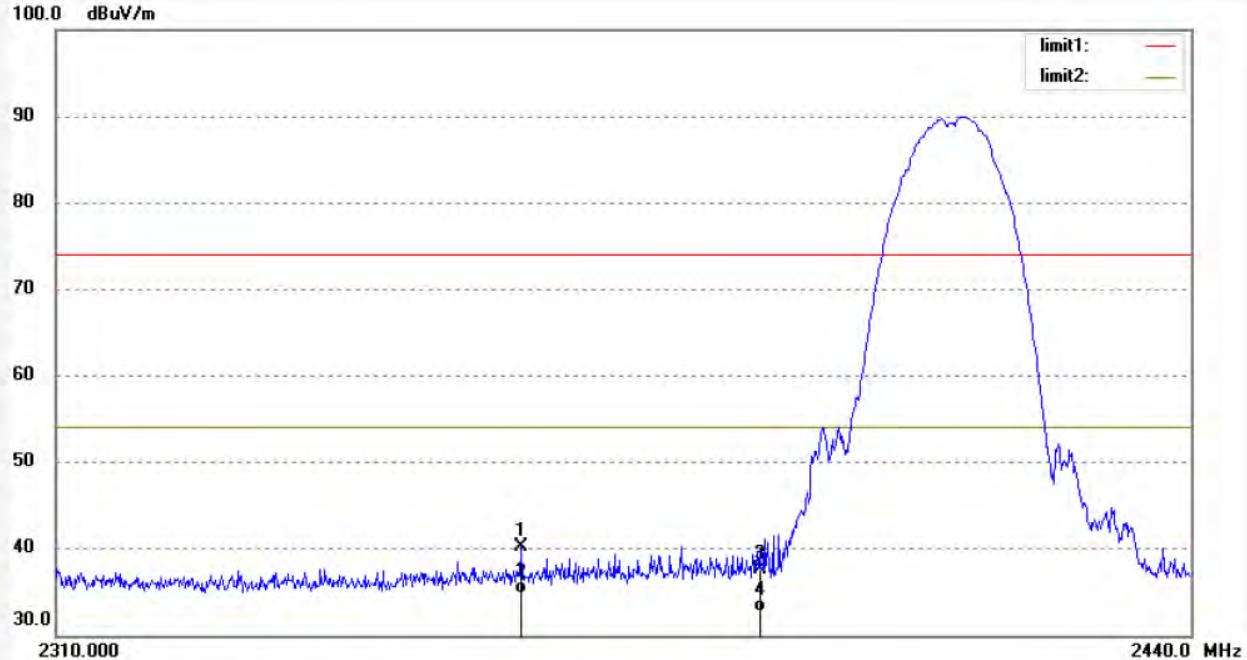
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.:	RICKY #1839	Polarization:	Horizontal
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/06/26
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	8/33/06
EUT:	5.5inch 3G TABLET	Engineer Signature:	
Mode:	TX 2412MHz(802.11b)	Distance:	3m
Model:	Force XT55SP		
Manufacturer:	IMC		
Note:	Report No:ATE20141092		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2362.520	48.08	-7.76	40.32	74.00	-33.68	peak			
2	2362.520	42.52	-7.76	34.76	54.00	-19.24	AVG			
3	2390.000	45.25	-7.57	37.68	74.00	-36.32	peak			
4	2390.000	40.21	-7.57	32.64	54.00	-21.36	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1840

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/37/01

EUT: 5.5inch 3G TABLET

Engineer Signature:

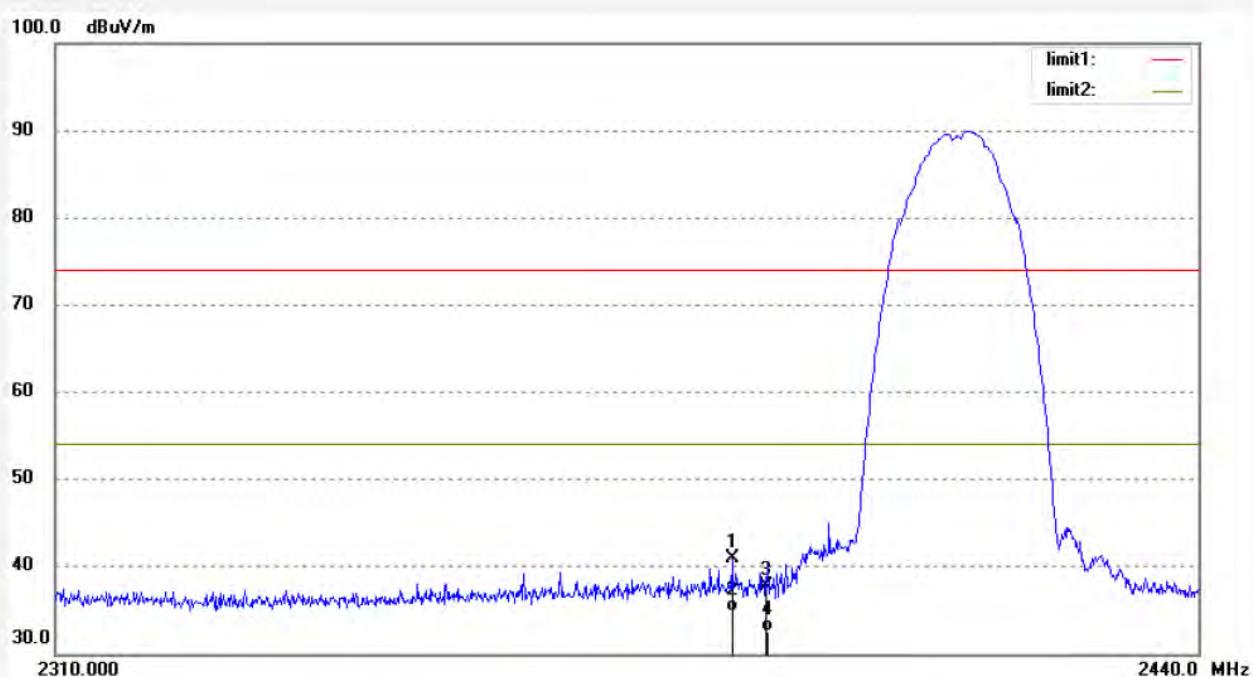
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2386.180	48.47	-7.61	40.86	74.00	-33.14	peak			
2	2386.180	42.49	-7.61	34.88	54.00	-19.12	AVG			
3	2390.000	45.41	-7.57	37.84	74.00	-36.16	peak			
4	2390.000	40.11	-7.57	32.54	54.00	-21.46	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1841

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/41/59

EUT: 5.5inch 3G TABLET

Engineer Signature:

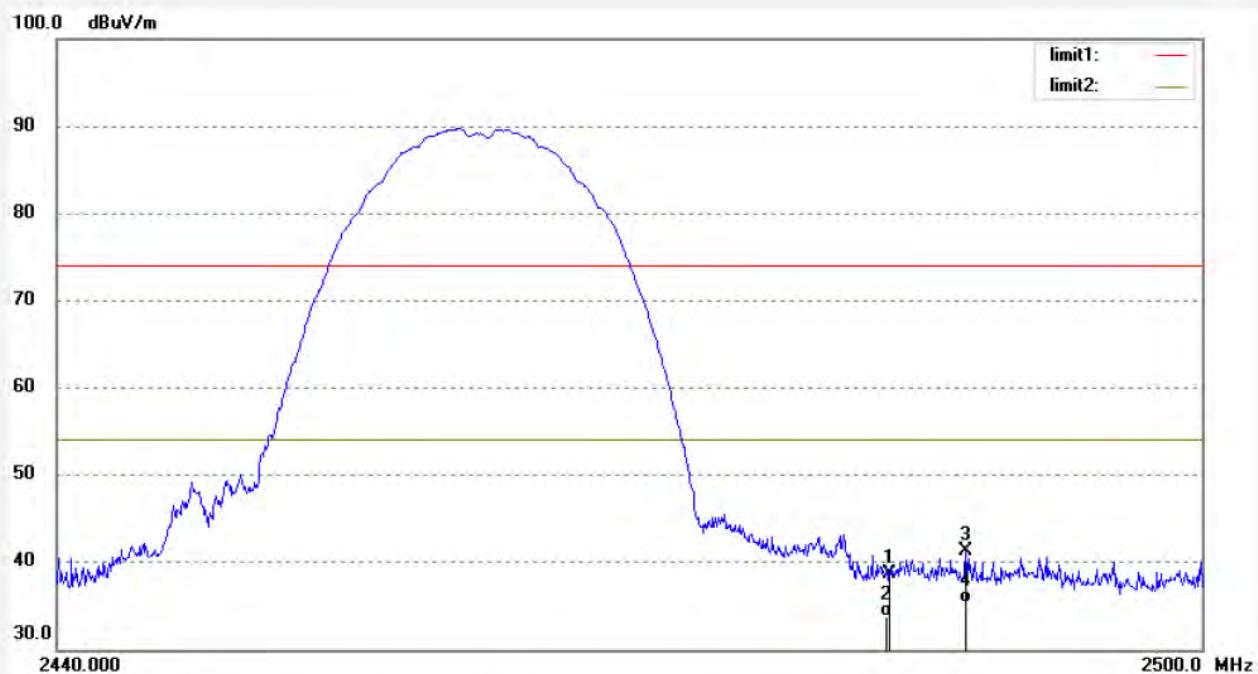
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	46.03	-7.38	38.65	74.00	-35.35	peak			
2	2483.500	41.22	-7.38	33.84	54.00	-20.16	AVG			
3	2487.580	48.70	-7.38	41.32	74.00	-32.68	peak			
4	2487.580	42.67	-7.38	35.29	54.00	-18.71	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1842

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/46/35

EUT: 5.5inch 3G TABLET

Engineer Signature:

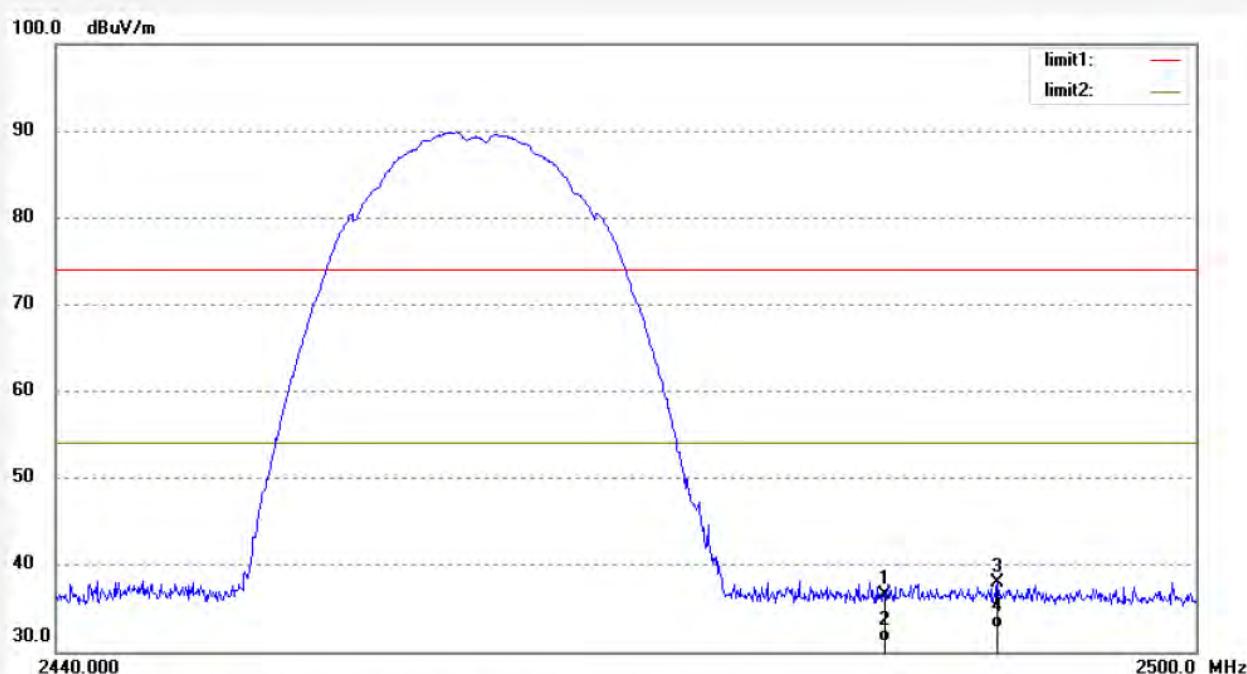
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



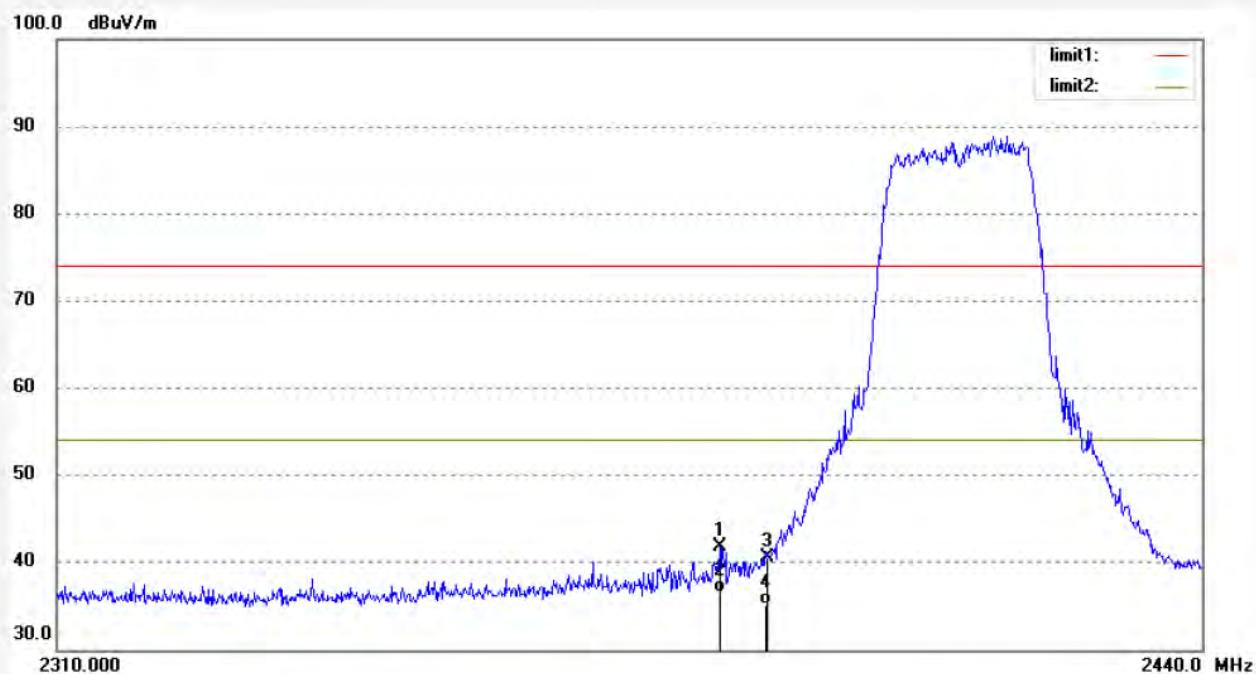
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	43.90	-7.38	36.52	74.00	-37.48	peak			
2	2483.500	38.55	-7.38	31.17	54.00	-22.83	AVG			
3	2489.500	45.30	-7.39	37.91	74.00	-36.09	peak			
4	2489.500	40.13	-7.39	32.74	54.00	-21.26	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.:	RICKY #1845	Polarization:	Vertical
Standard:	FCC PK	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/06/26/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	8/58/20
EUT:	5.5inch 3G TABLET	Engineer Signature:	
Mode:	TX 2412MHz(802.11g)	Distance:	3m
Model:	Force XT55SP		
Manufacturer:	IMC		
Note:	Report No:ATE20141092		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2384.490	49.35	-7.61	41.74	74.00	-32.26	peak			
2	2384.490	44.22	-7.61	36.61	54.00	-17.39	AVG			
3	2390.000	48.17	-7.57	40.60	74.00	-33.40	peak			
4	2390.000	42.78	-7.57	35.21	54.00	-18.79	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1846

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/01/02

EUT: 5.5inch 3G TABLET

Engineer Signature:

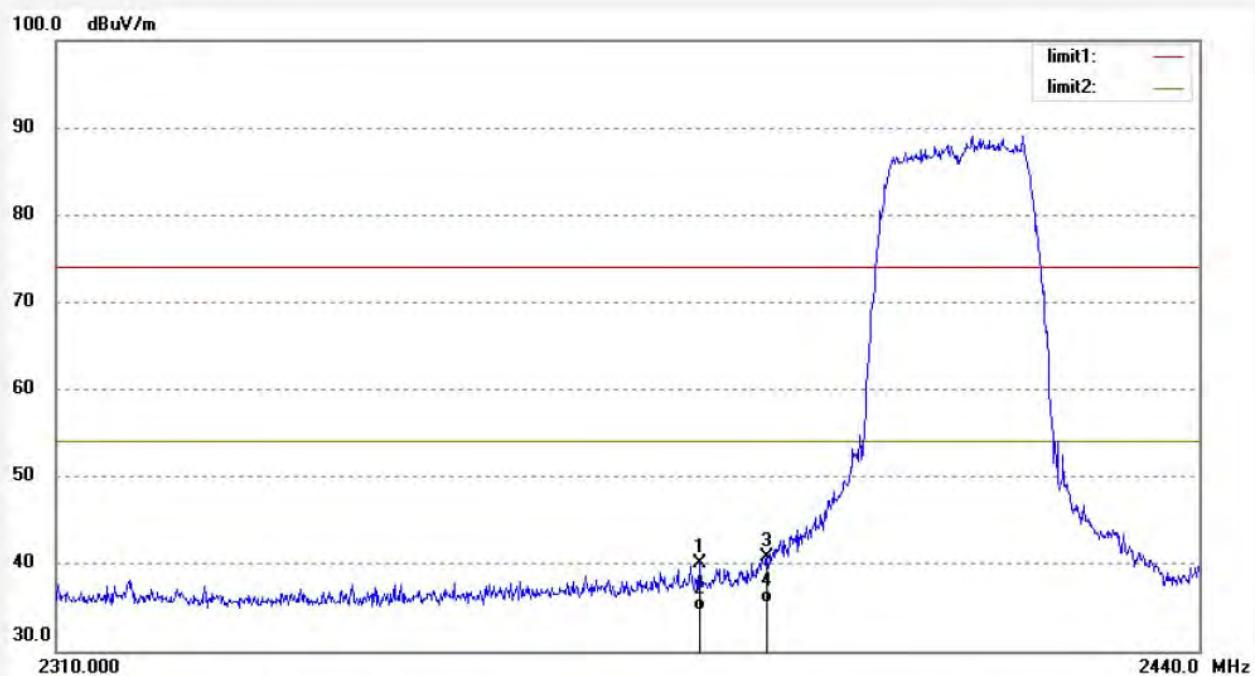
Mode: TX 2412MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2382.410	47.78	-7.63	40.15	74.00	-33.85	peak			
2	2382.410	42.33	-7.63	34.70	54.00	-19.30	AVG			
3	2390.000	48.25	-7.57	40.68	74.00	-33.32	peak			
4	2390.000	43.10	-7.57	35.53	54.00	-18.47	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1844

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/54/42

EUT: 5.5inch 3G TABLET

Engineer Signature:

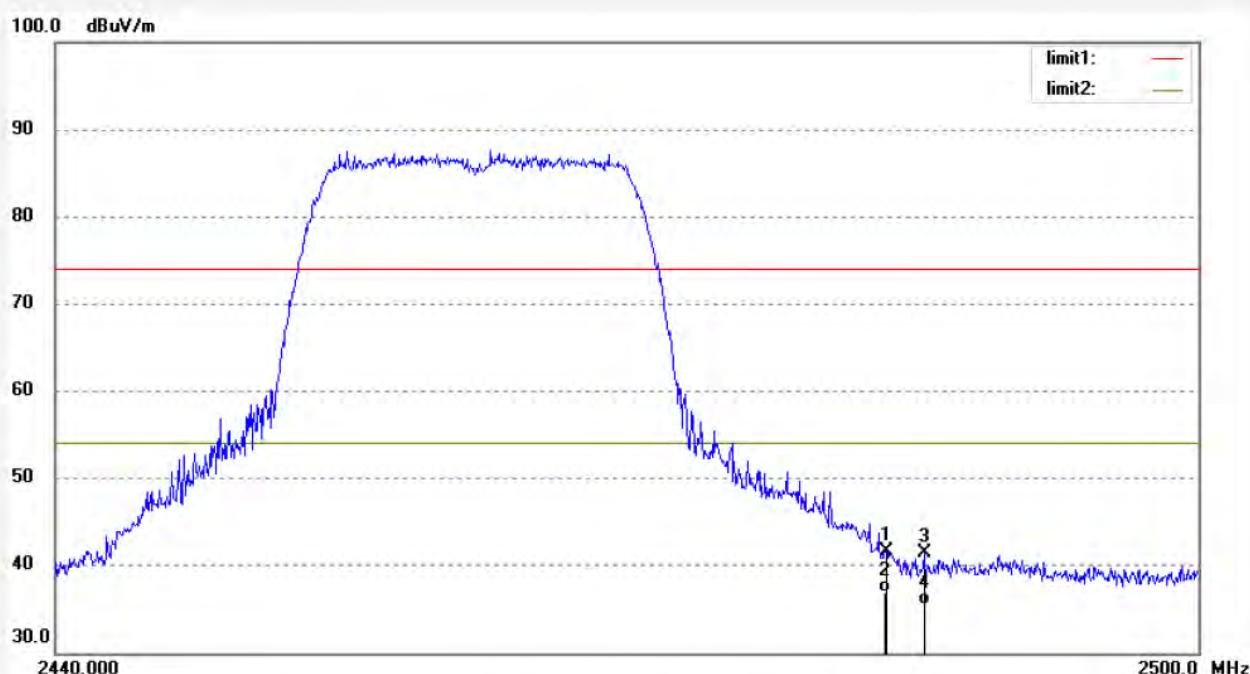
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	49.05	-7.38	41.67	74.00	-32.33	peak			
2	2483.500	44.27	-7.38	36.89	54.00	-17.11	AVG			
3	2485.480	48.83	-7.39	41.44	74.00	-32.56	peak			
4	2485.480	42.92	-7.39	35.53	54.00	-18.47	AVG			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1843

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 8/51/48

EUT: 5.5inch 3G TABLET

Engineer Signature:

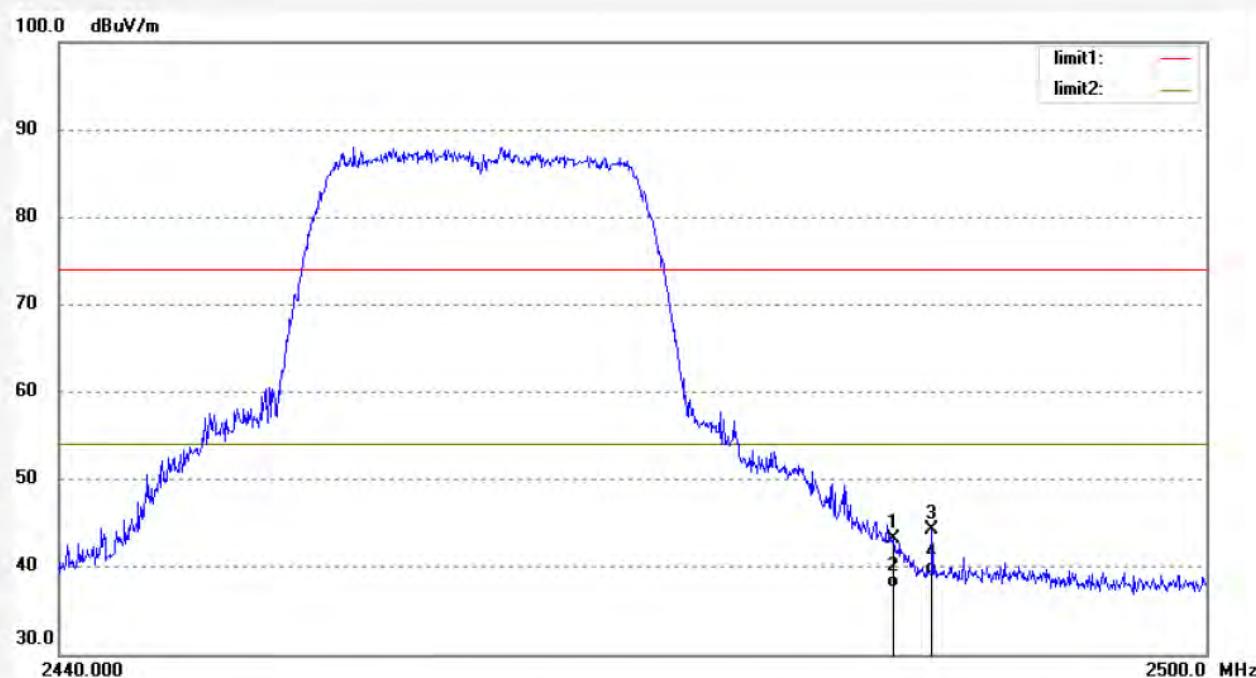
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	50.66	-7.38	43.28	74.00	-30.72	peak			
2	2483.500	44.98	-7.38	37.60	54.00	-16.40	AVG			
3	2485.540	51.58	-7.39	44.19	74.00	-29.81	peak			
4	2485.540	46.59	-7.39	39.20	54.00	-14.80	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1847

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/06/58

EUT: 5.5inch 3G TABLET

Engineer Signature:

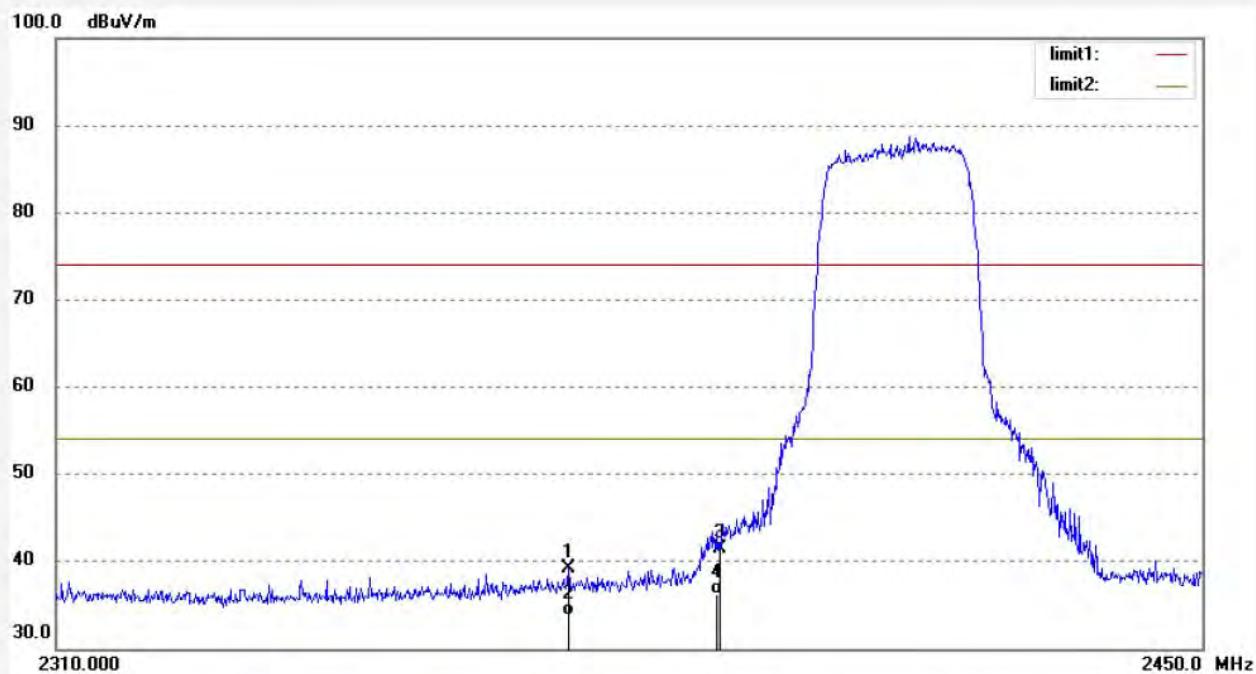
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2371.600	46.81	-7.69	39.12	74.00	-34.88	peak			
2	2371.600	41.38	-7.69	33.69	54.00	-20.31	AVG			
3	2390.000	49.07	-7.57	41.50	74.00	-32.50	peak			
4	2390.000	43.81	-7.57	36.24	54.00	-17.76	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1848

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/10/20

EUT: 5.5inch 3G TABLET

Engineer Signature:

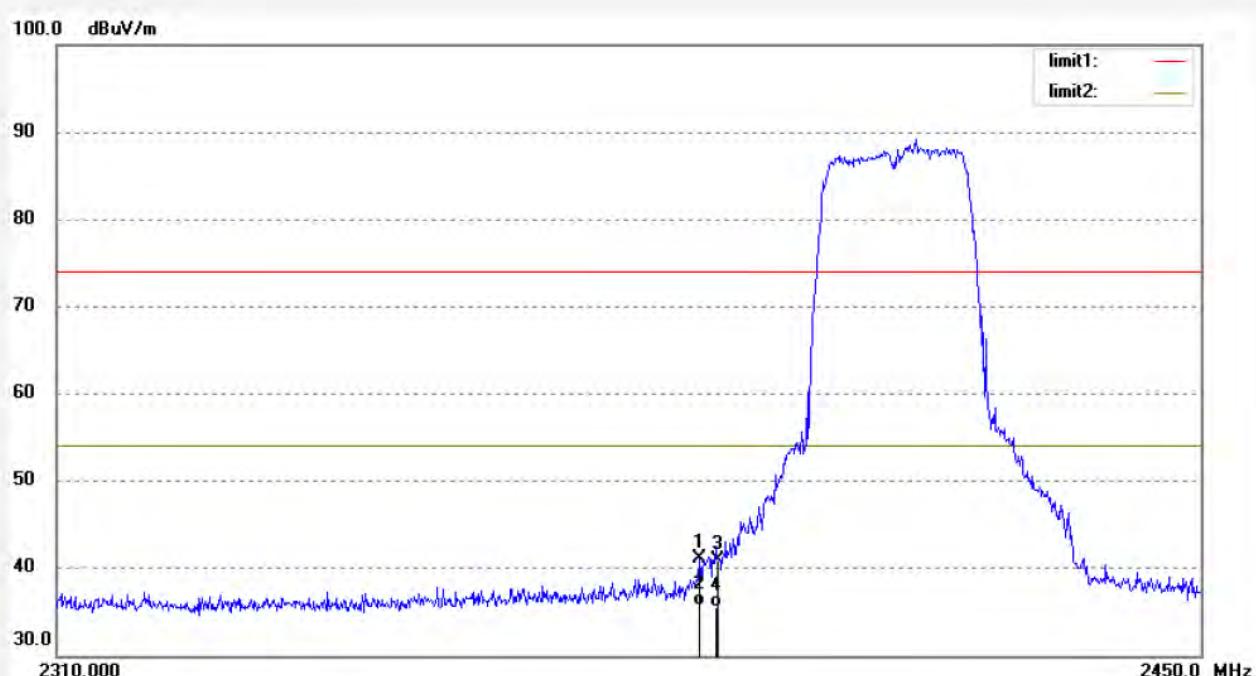
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2387.700	48.68	-7.58	41.10	74.00	-32.90	peak			
2	2387.700	43.19	-7.58	35.61	54.00	-18.39	AVG			
3	2390.000	48.43	-7.57	40.86	74.00	-33.14	peak			
4	2390.000	43.09	-7.57	35.52	54.00	-18.48	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1849

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/14/27

EUT: 5.5inch 3G TABLET

Engineer Signature:

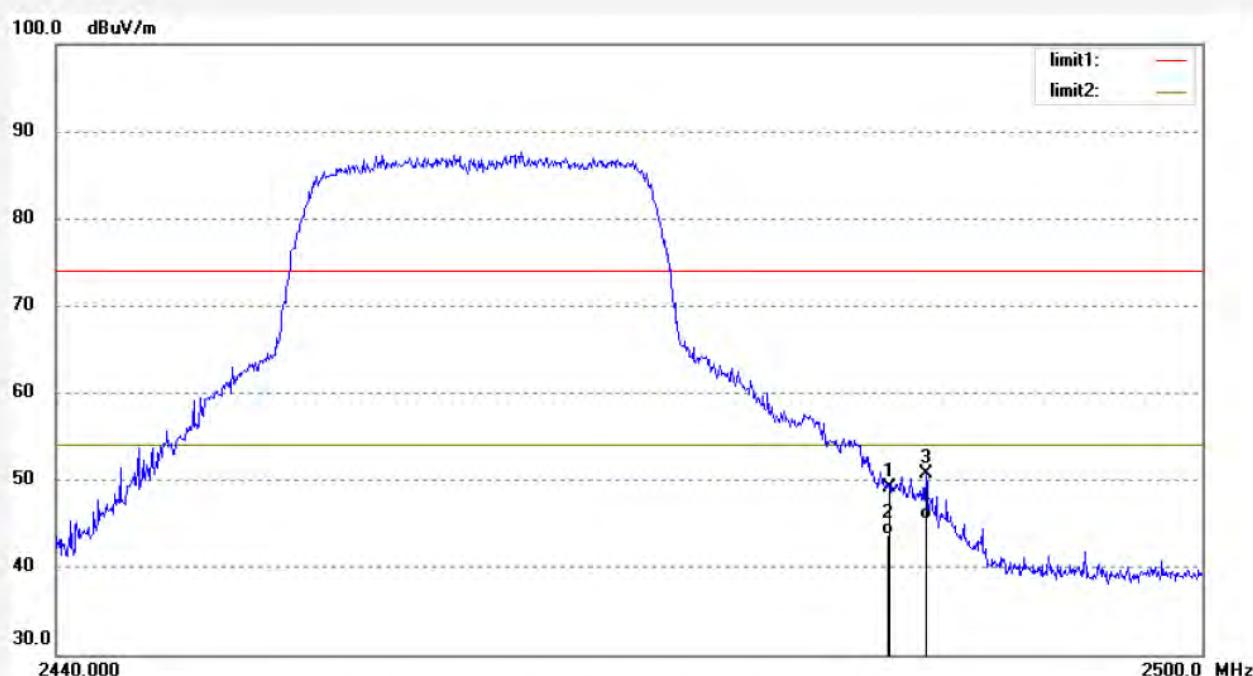
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	56.58	-7.38	49.20	74.00	-24.80	peak			
2	2483.500	51.14	-7.38	43.76	54.00	-10.24	Avg			
3	2485.420	58.16	-7.39	50.77	74.00	-23.23	peak			
4	2485.420	52.95	-7.39	45.56	54.00	-8.44	Avg			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1850

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/16/48

EUT: 5.5inch 3G TABLET

Engineer Signature:

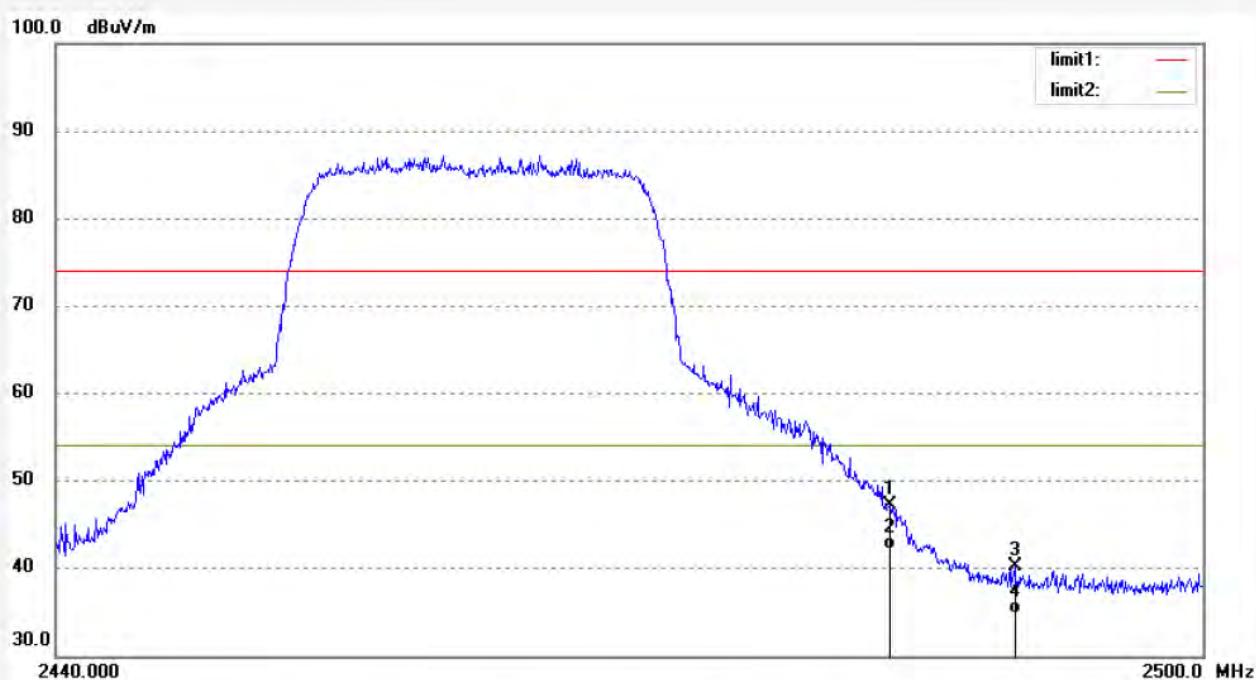
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	54.64	-7.38	47.26	74.00	-26.74	peak			
2	2483.500	49.61	-7.38	42.23	54.00	-11.77	AVG			
3	2490.100	47.69	-7.39	40.30	74.00	-33.70	peak			
4	2490.100	42.13	-7.39	34.74	54.00	-19.26	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1853

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/27/50

EUT: 5.5inch 3G TABLET

Engineer Signature:

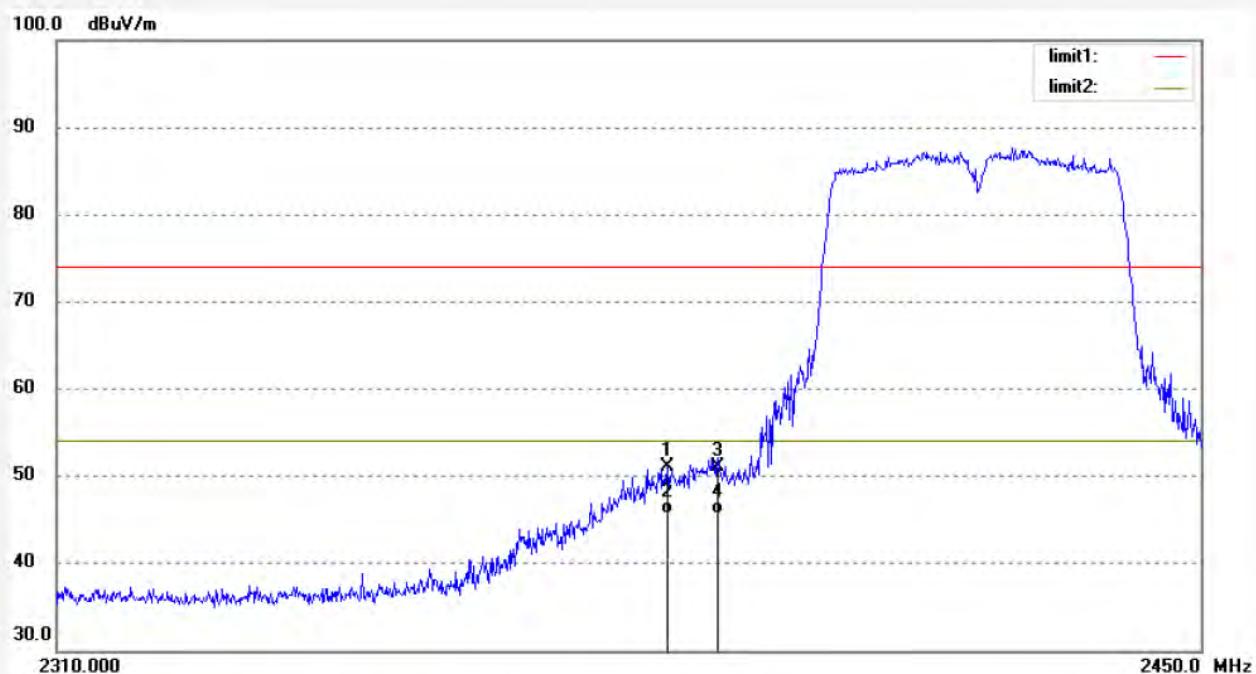
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No.:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2383.780	58.70	-7.61	51.09	74.00	-22.91	peak			
2	2383.780	53.21	-7.61	45.60	54.00	-8.40	AVG			
3	2390.000	58.72	-7.57	51.15	74.00	-22.85	peak			
4	2390.000	53.29	-7.57	45.72	54.00	-8.28	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1854

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/29/36

EUT: 5.5inch 3G TABLET

Engineer Signature:

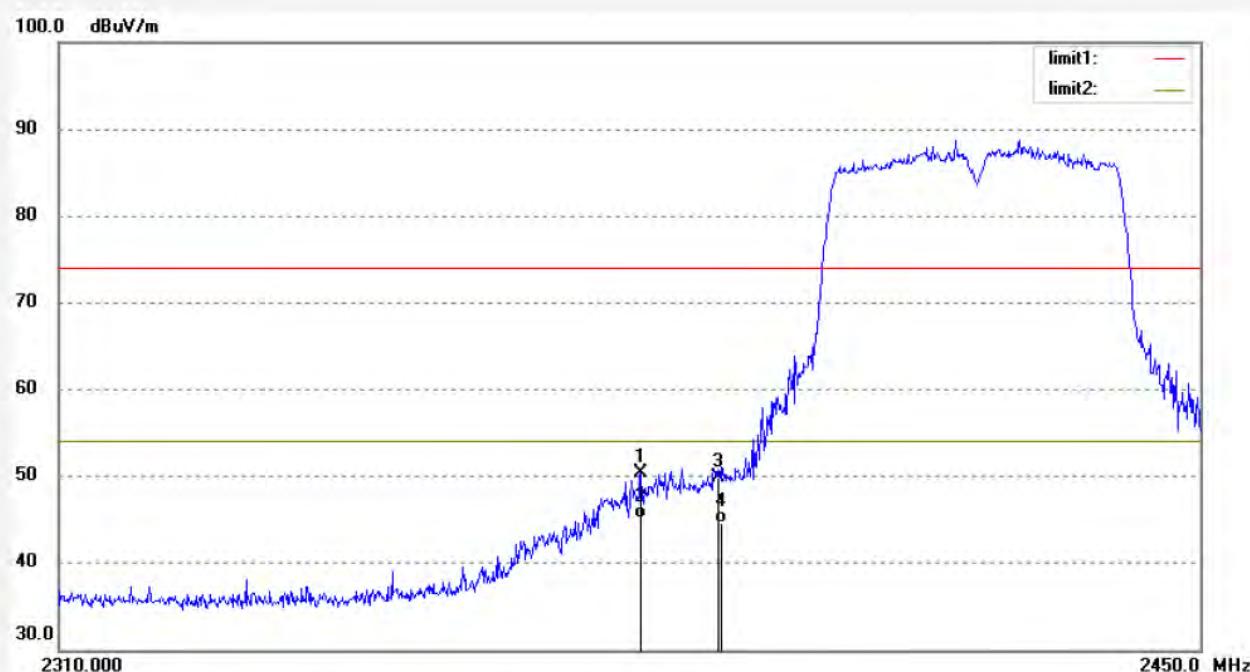
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No.:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2380.420	58.00	-7.64	50.36	74.00	-23.64	peak			
2	2380.420	52.81	-7.64	45.17	54.00	-8.83	AVG			
3	2390.000	57.35	-7.57	49.78	74.00	-24.22	peak			
4	2390.000	52.10	-7.57	44.53	54.00	-9.47	AVG			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1852

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/26

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/24/21

EUT: 5.5inch 3G TABLET

Engineer Signature:

Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No.:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	51.46	-7.38	44.08	74.00	-29.92	peak			
2	2483.500	45.37	-7.38	37.99	54.00	-16.01	AVG			
3	2491.180	52.34	-7.38	44.96	74.00	-29.04	peak			
4	2491.180	46.32	-7.38	38.94	54.00	-15.06	AVG			


ACCURATE TECHNOLOGY CO., LTD.

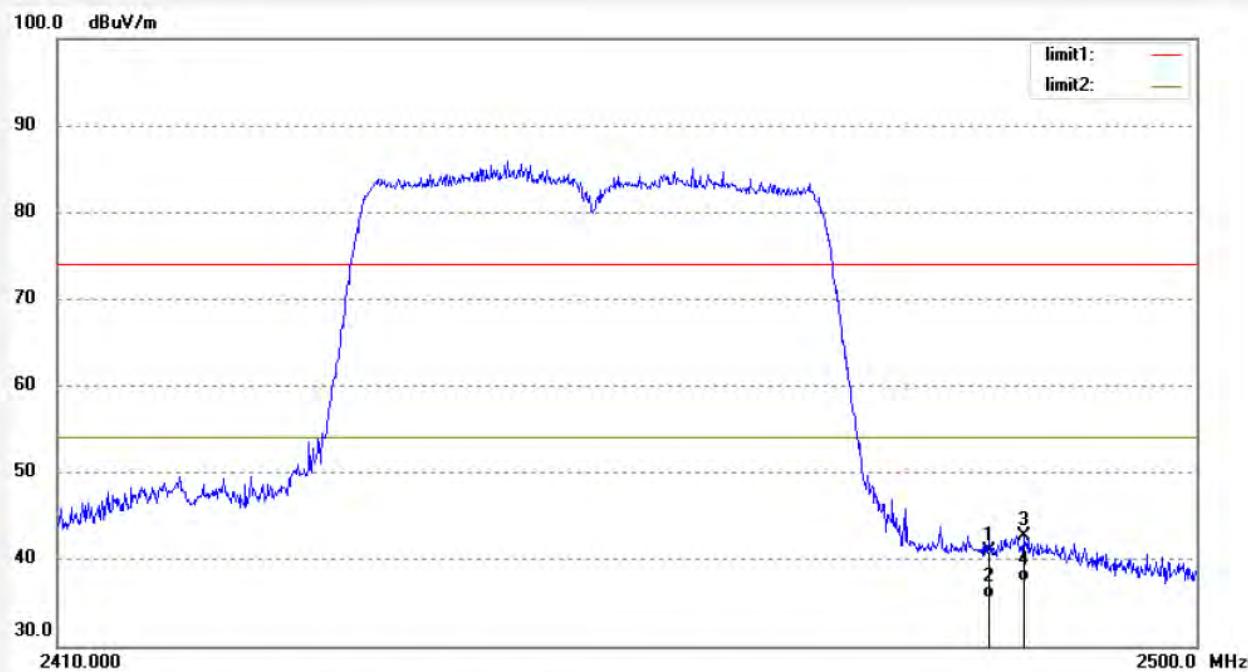
F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1851	Polarization: Horizontal
Standard: FCC PK	Power Source: AC 120V/60Hz
Test item: Radiation Test	Date: 14/06/26/
Temp.(C)/Hum.(%) 25 C / 55 %	Time: 9/21/58
EUT: 5.5inch 3G TABLET	Engineer Signature:
Mode: TX 2452MHz(802.11n40)	Distance: 3m
Model: Force XT55SP	
Manufacturer: IMC	
Note: Report No.:ATE20141092	

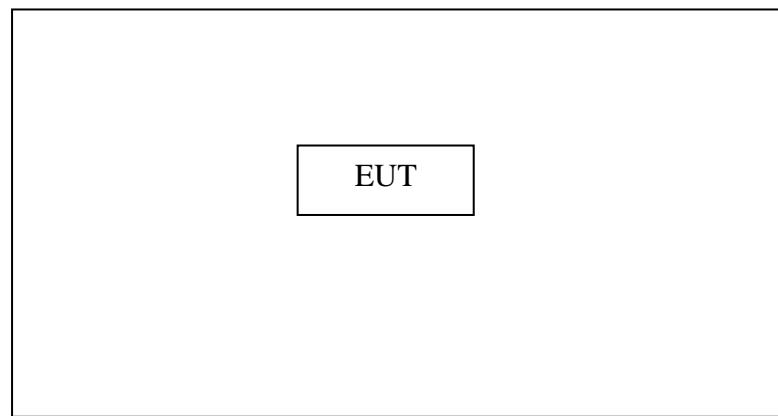


No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	2483.500	48.33	-7.38	40.95	74.00	-33.05	peak			
2	2483.500	42.97	-7.38	35.59	54.00	-18.41	AVG			
3	2486.140	50.11	-7.39	42.72	74.00	-31.28	peak			
4	2486.140	44.87	-7.39	37.48	54.00	-16.52	AVG			

9. RADIATED SPURIOUS EMISSION TEST

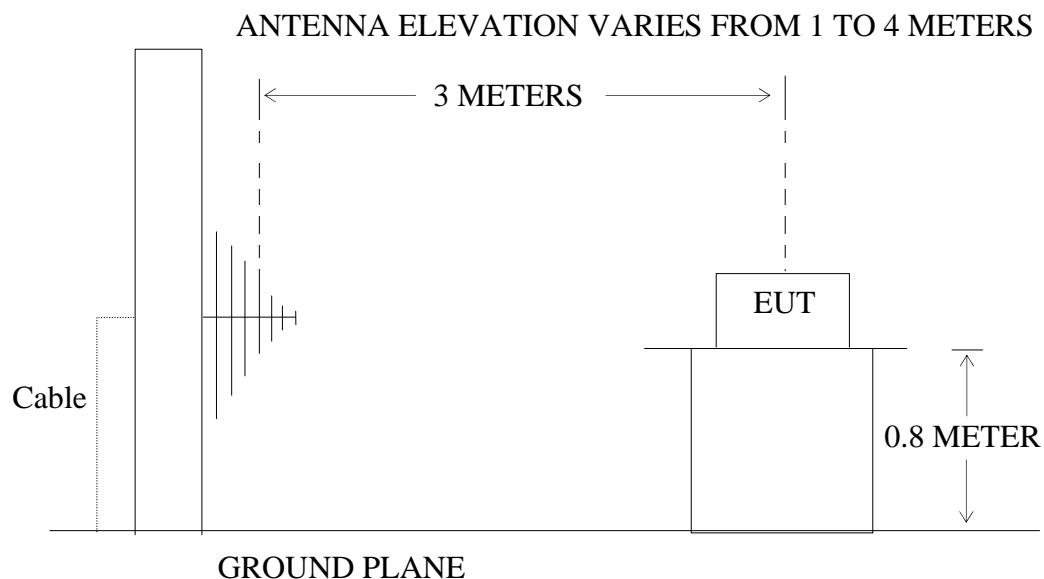
9.1. Block Diagram of Test Setup

9.1.1. Block diagram of connection between the EUT and peripherals



Setup: Transmitting mode

9.1.2. Semi-Anechoic Chamber Test Setup Diagram



9.2. The Limit For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the

transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

9.3.Restricted bands of operation

9.3.1.FCC Part 15.205 Restricted bands of operation

- (a) Except as shown in paragraph (d) of this section, Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.090-0.110	16.42-16.423	399.9-410	4.5-5.15
¹ 0.495-0.505	16.69475-16.69525	608-614	5.35-5.46
2.1735-2.1905	16.80425-16.80475	960-1240	7.25-7.75
4.125-4.128	25.5-25.67	1300-1427	8.025-8.5
4.17725-4.17775	37.5-38.25	1435-1626.5	9.0-9.2
4.20725-4.20775	73-74.6	1645.5-1646.5	9.3-9.5
6.215-6.218	74.8-75.2	1660-1710	10.6-12.7
6.26775-6.26825	108-121.94	1718.8-1722.2	13.25-13.4
6.31175-6.31225	123-138	2200-2300	14.47-14.5
8.291-8.294	149.9-150.05	2310-2390	15.35-16.2
8.362-8.366	156.52475-156.52525	2483.5-2500	17.7-21.4
8.37625-8.38675	156.7-156.9	2690-2900	22.01-23.12
8.41425-8.41475	162.0125-167.17	3260-3267	23.6-24.0
12.29-12.293	167.72-173.2	3332-3339	31.2-31.8
12.51975-12.52025	240-285	3345.8-3358	36.43-36.5
12.57675-12.57725	322-335.4	3600-4400	(²)
13.36-13.41			

¹Until February 1, 1999, this restricted band shall be 0.490-0.510

²Above 38.6

- (b) Except as provided in paragraphs (d) and (e), the field strength of emission appearing within these frequency bands shall not exceed the limits shown in Section 15.209. At frequencies equal to or less than 1000MHz, Compliance with the limits in Section 15.209 shall be demonstrated using measurement instrumentation employing a CISPR quasi-peak detector. Above 1000MHz, compliance with the emission limits in Section 15.209 shall be demonstrated based on the average value of the measured emissions. The provisions in Section 15.35 apply to these measurements.

9.4.Configuration of EUT on Measurement

The equipment are installed on Radiated Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

9.5.Operating Condition of EUT

9.5.1. Setup the EUT and simulator as shown as Section 9.1.

9.5.2. Turn on the power of all equipment.

9.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

9.6. Test Procedure

The EUT and its simulators are placed on a turntable, which is 0.8 meter high above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. EUT is set 3.0 meters away from the receiving antenna, which is mounted on an antenna tower. The antenna can be moved up and down between 1.0 meter and 4 meters to find out the maximum emission level. Broadband antenna (calibrated bilog antenna) is used as receiving antenna. Both horizontal and vertical polarizations of the antenna are set on measurement. In order to find the maximum emission levels, all of the interface cables must be manipulated according to ANSI C63.4: 2009 on radiated emission measurement. The EUT was tested in 3 orthogonal planes.

The worst-case data rate for this channel to be 1Mbps for 802.11b mode and 6Mbps for 802.11g mode and 150Mbps for 802.11n mode, based on previous with 802.11 WLAN product design architectures.

The final measurement in band 9-90 kHz, 110-490 kHz and above 1000MHz is performed with Average detector. Except those frequency bands mention above, the final measurement for frequencies below 1000MHz is performed with Quasi Peak detector. When average radiated emissions measurements are specified there is also a limit on the peak emissions level which is 20 dB above the applicable maximum permitted average emission limit

RBW (120 kHz), VBW (300 kHz) for QP detector below 1GHz

RBW (1 MHz), VBW (3MHz) for Peak detector above 1GHz

RBW (1 MHz), VBW (10Hz) for AV detector above 1GHz (duty cycle ≥ 98 percent)

If the peak-detected amplitude can be shown to comply with the average limit, then it is not necessary to perform a separate average measurement.

9.7. The Field Strength of Radiation Emission Measurement Results

Note: 1. Emissions attenuated more than 20 dB below the permissible value are not reported.

2. The average measurement was not performed when peak measured data under the limit of average detection.
3. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.
4. The EUT is tested radiation emission at each test mode(802.11 b/g/n) in three axes. The worst emissions are reported in all test mode and channels.
5. The 18-25GHz emissions are not reported, because the levels are too low against the limit.

Below 1G

**ACCURATE TECHNOLOGY CO., LTD.**F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1815

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/25

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14:28:25

EUT: 5.5inch 3G TABLET

Engineer Signature:

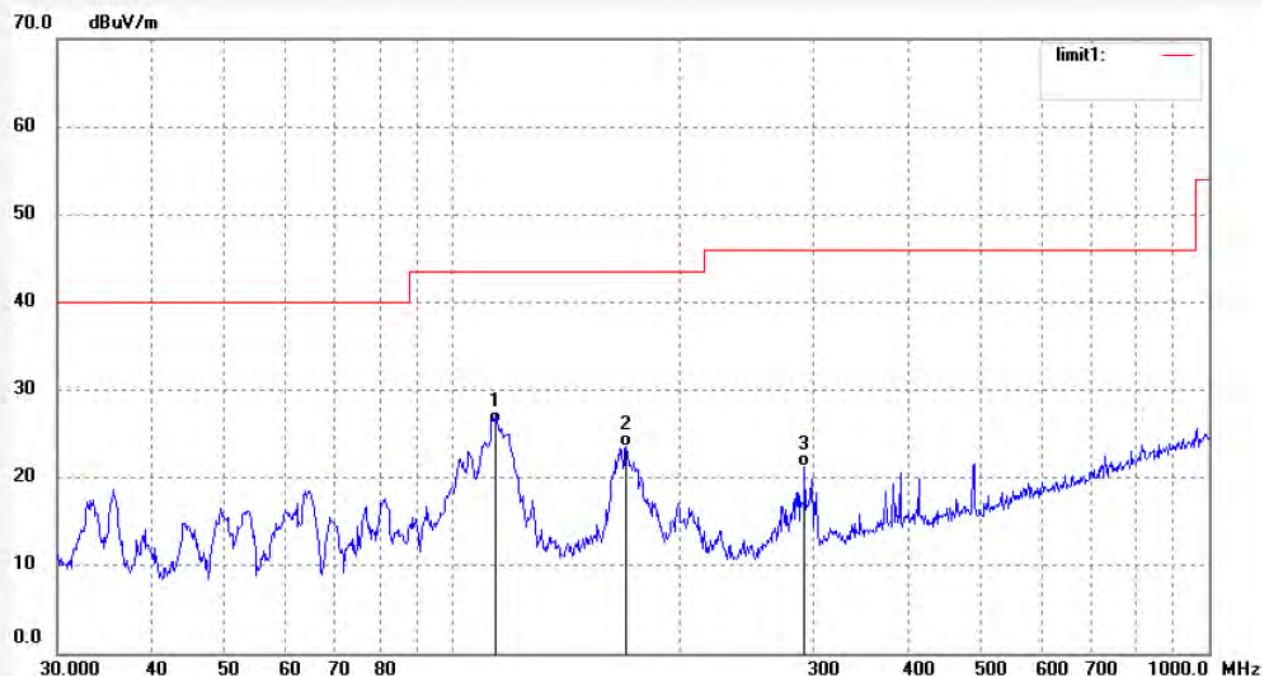
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	114.1138	48.45	-22.31	26.14	43.50	-17.36	QP			
2	169.5990	45.35	-21.84	23.51	43.50	-19.99	QP			
3	292.0583	39.30	-18.03	21.27	46.00	-24.73	QP			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1816

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 2014/06/25

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 14:29:33

EUT: 5.5inch 3G TABLET

Engineer Signature:

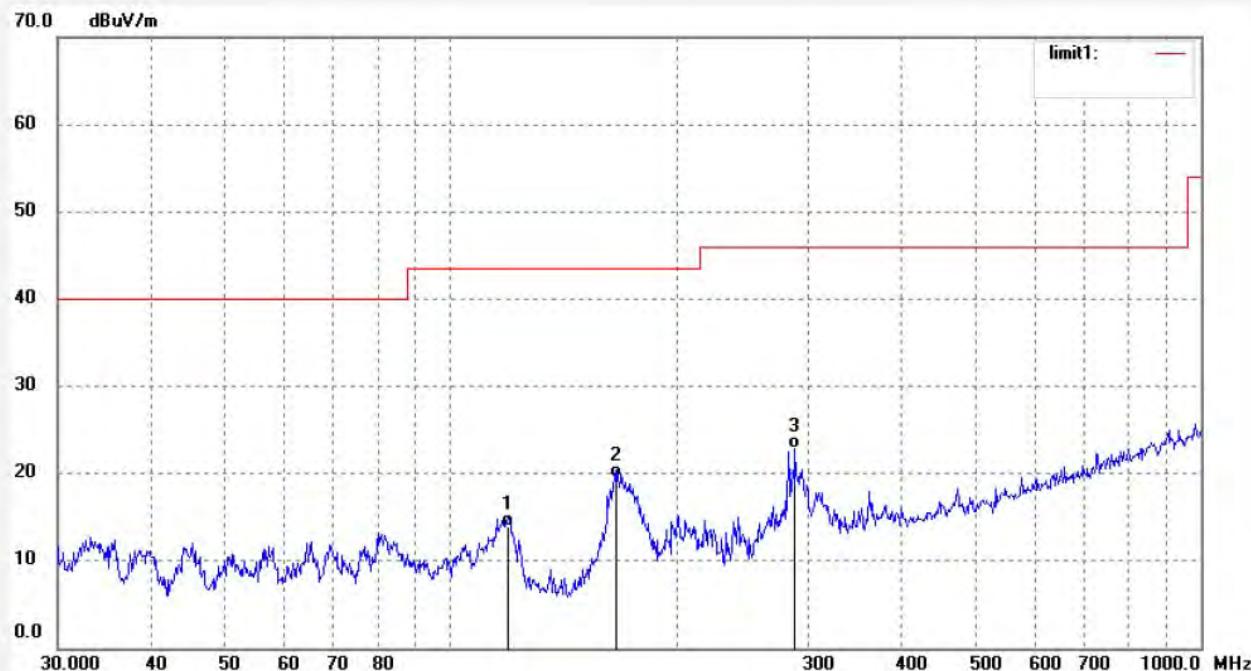
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	119.4361	36.41	-22.50	13.91	43.50	-29.59	QP			
2	166.0680	41.67	-22.21	19.46	43.50	-24.04	QP			
3	287.9904	40.93	-18.12	22.81	46.00	-23.19	QP			

Above 1G

**ACCURATE TECHNOLOGY CO., LTD.**

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1913

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/15/19

EUT: 5.5inch 3G TABLET

Engineer Signature:

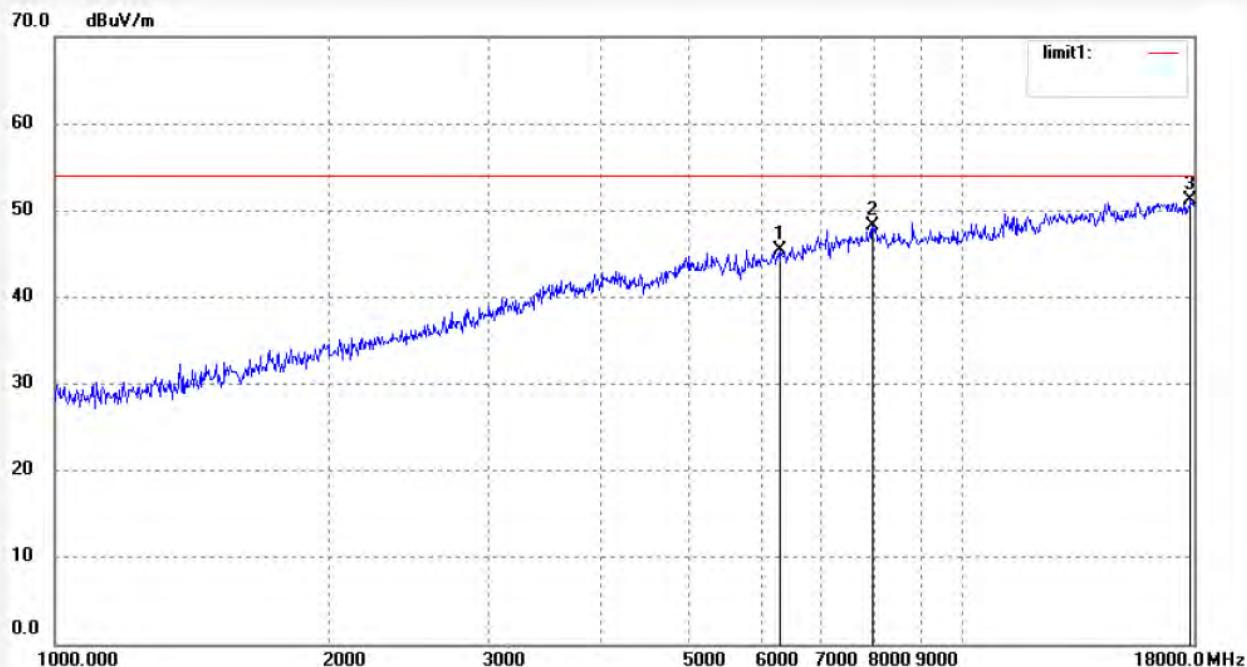
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6303.889	41.45	4.03	45.48	54.00	-8.52	peak			
2	7966.832	40.14	8.03	48.17	54.00	-5.83	peak			
3	17844.595	-0.36	51.48	51.12	54.00	-2.88	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1912

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/13/45

EUT: 5.5inch 3G TABLET

Engineer Signature:

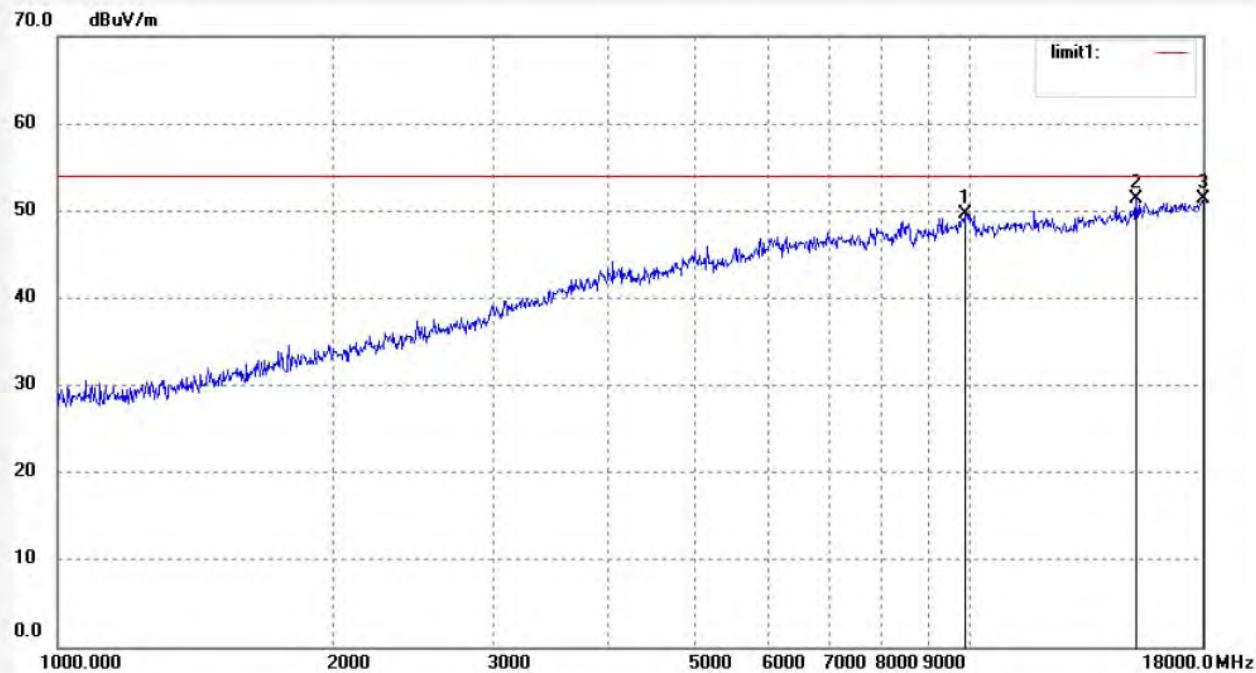
Mode: TX 2412MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	9895.349	38.56	10.98	49.54	54.00	-4.46	peak			
2	15221.824	2.37	48.95	51.32	54.00	-2.68	peak			
3	18000.000	-4.26	55.70	51.44	54.00	-2.56	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1911

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/12/33

EUT: 5.5inch 3G TABLET

Engineer Signature:

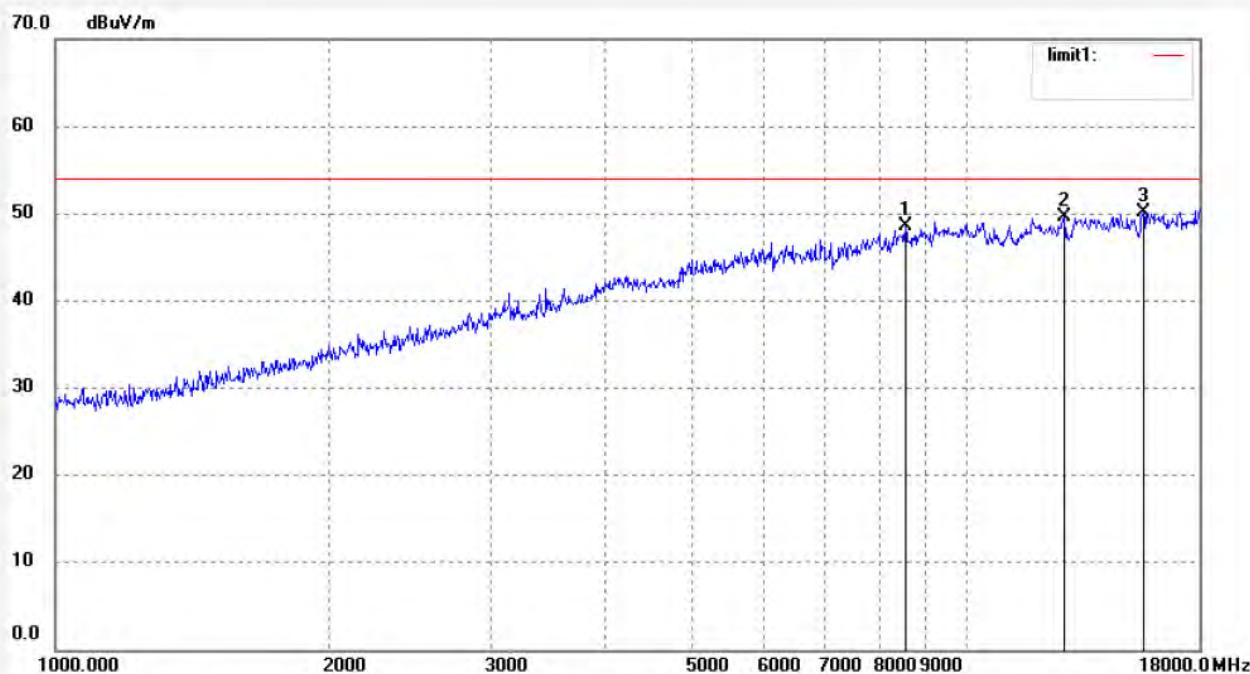
Mode: TX 2437MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8563.819	39.76	8.76	48.52	54.00	-5.48	peak			
2	12798.243	3.77	45.88	49.65	54.00	-4.35	peak			
3	15622.990	1.65	48.53	50.18	54.00	-3.82	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1910

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/11/55

EUT: 5.5inch 3G TABLET

Engineer Signature:

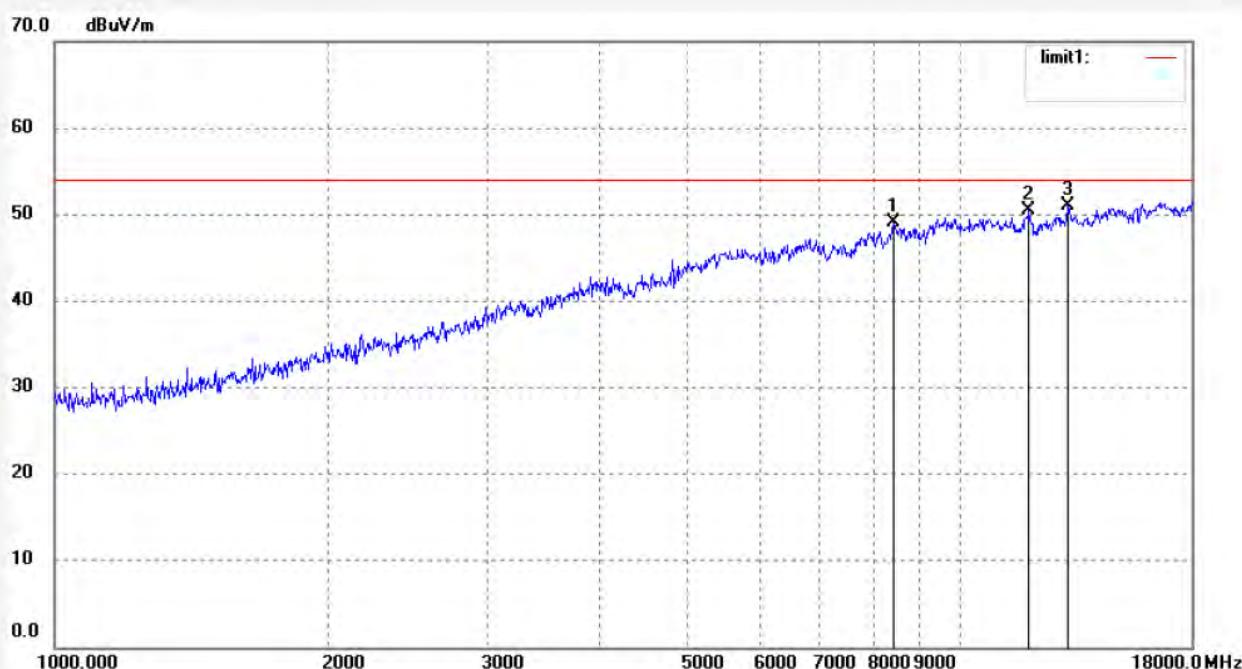
Mode: TX 2437MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8440.946	40.04	8.98	49.02	54.00	-4.98	peak			
2	11906.073	37.93	12.58	50.51	54.00	-3.49	peak			
3	13135.536	4.64	46.40	51.04	54.00	-2.96	peak			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1909

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/10/32

EUT: 5.5inch 3G TABLET

Engineer Signature:

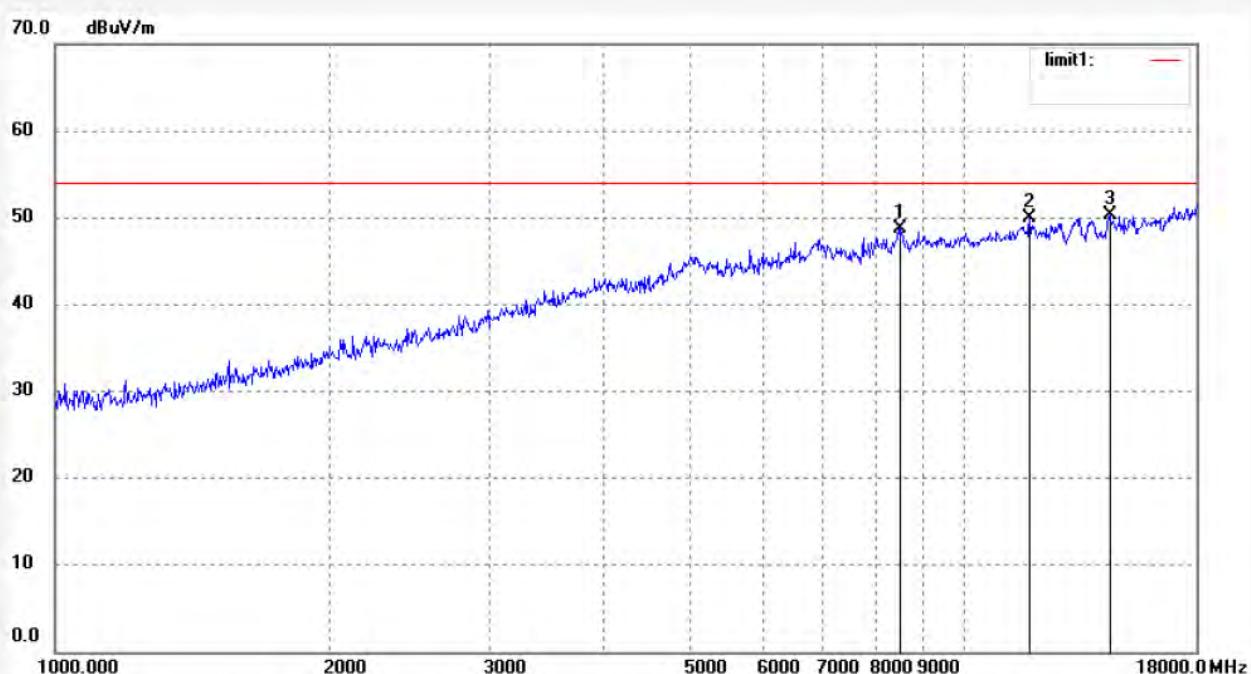
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8514.456	39.95	8.87	48.82	54.00	-5.18	peak			
2	11803.280	36.57	13.33	49.90	54.00	-4.10	peak			
3	14450.131	0.15	50.19	50.34	54.00	-3.66	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1908

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/09/41

EUT: 5.5inch 3G TABLET

Engineer Signature:

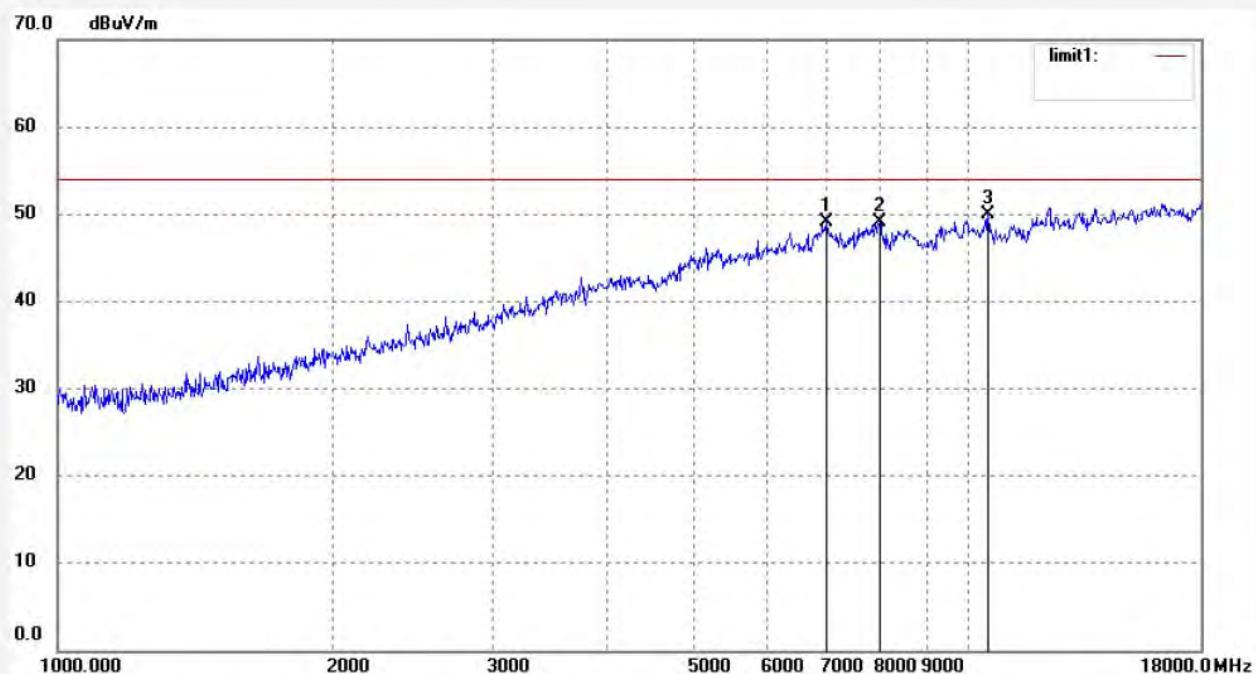
Mode: TX 2462MHz(802.11b)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



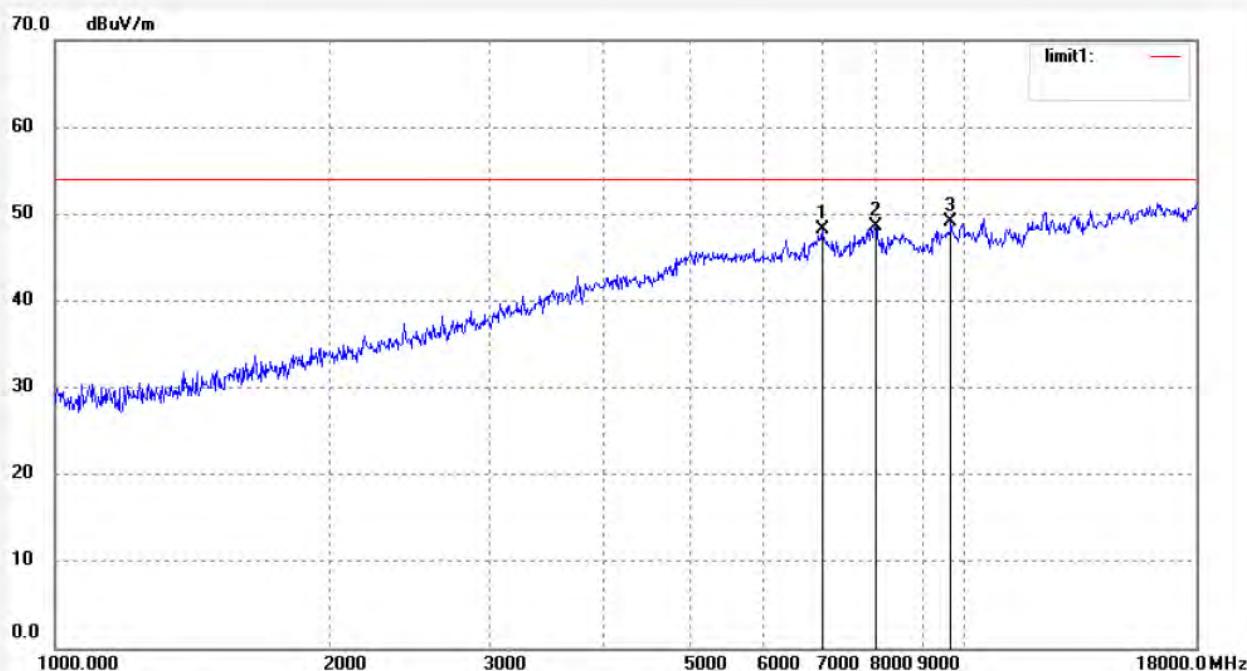
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6974.983	43.62	5.55	49.17	54.00	-4.83	peak			
2	7989.892	40.84	8.22	49.06	54.00	-4.94	peak			
3	10514.577	40.13	9.87	50.00	54.00	-4.00	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.:	RICKY #1902	Polarization:	Vertical
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V/60Hz
Test item:	Radiation Test	Date:	14/06/27/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	10/02/25
EUT:	5.5inch 3G TABLET	Engineer Signature:	
Mode:	TX 2412MHz(802.11g)	Distance:	3m
Model:	Force XT55SP		
Manufacturer:	IMC		
Note:	Report No:ATE20141092		



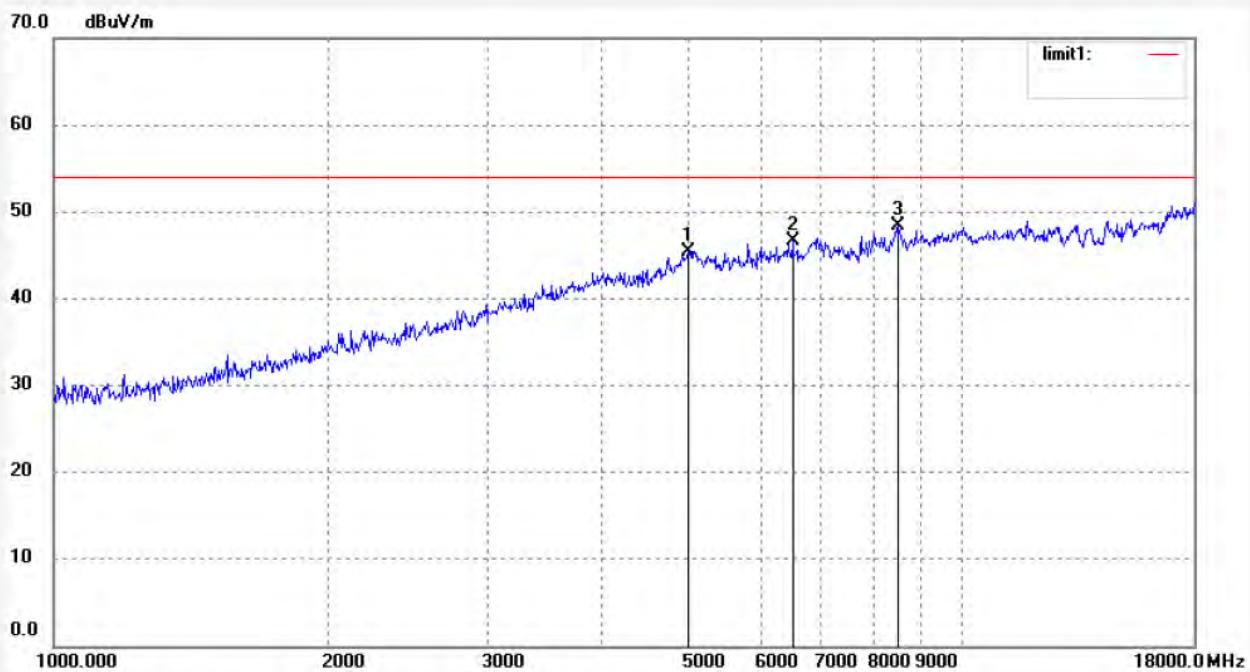
No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6974.983	42.62	5.55	48.17	54.00	-5.83	peak			
2	7989.892	40.34	8.22	48.56	54.00	-5.44	peak			
3	9669.164	38.38	10.67	49.05	54.00	-4.95	peak			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.:	RICKY #1903	Polarization:	Horizontal
Standard:	FCC Class B 3M Radiated	Power Source:	AC 120V//60Hz
Test item:	Radiation Test	Date:	14/06/27/
Temp.(C)/Hum.(%)	25 C / 55 %	Time:	10/03/34
EUT:	5.5inch 3G TABLET	Engineer Signature:	
Mode:	TX 2412MHz(802.11g)	Distance:	3m
Model:	Force XT55SP		
Manufacturer:	IMC		
Note:	Report No:ATE20141092		



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5002.496	43.99	1.49	45.48	54.00	-8.52	peak			
2	6507.536	42.14	4.45	46.59	54.00	-7.41	peak			
3	8514.456	39.45	8.87	48.32	54.00	-5.68	peak			



ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1904

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/04/51

EUT: 5.5inch 3G TABLET

Engineer Signature:

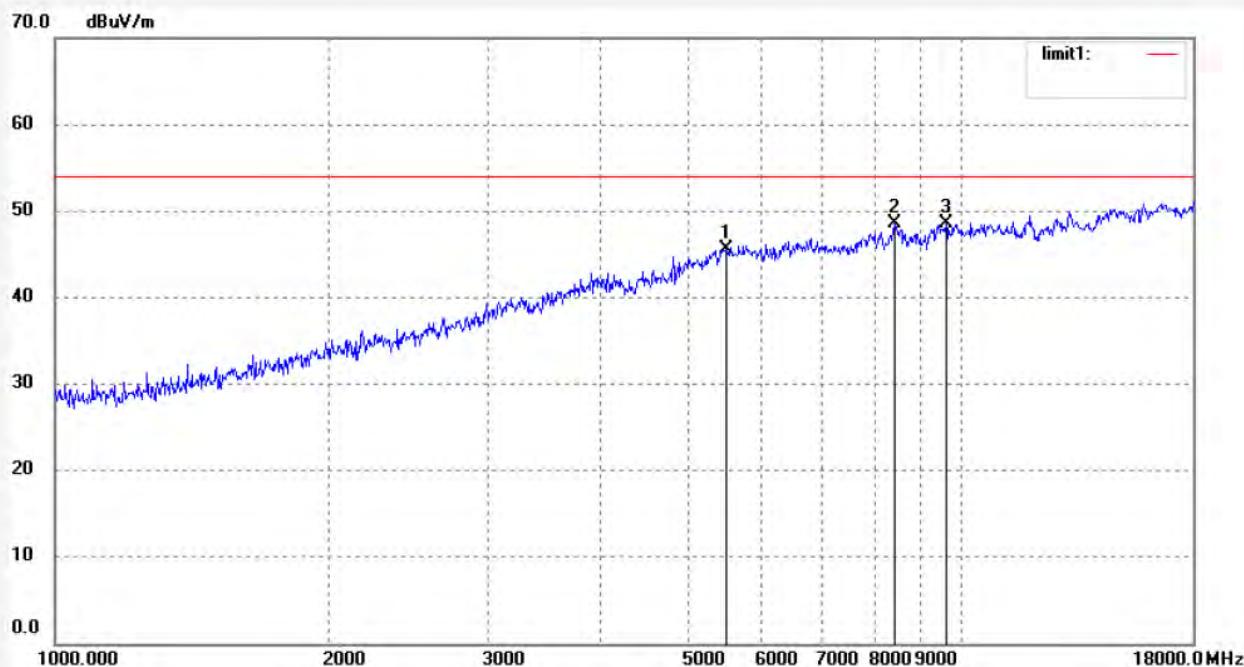
Mode: TX 2437MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5503.143	43.40	2.16	45.56	54.00	-8.44	peak			
2	8440.946	39.54	8.98	48.52	54.00	-5.48	peak			
3	9613.430	37.98	10.59	48.57	54.00	-5.43	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1905

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/06/33

EUT: 5.5inch 3G TABLET

Engineer Signature:

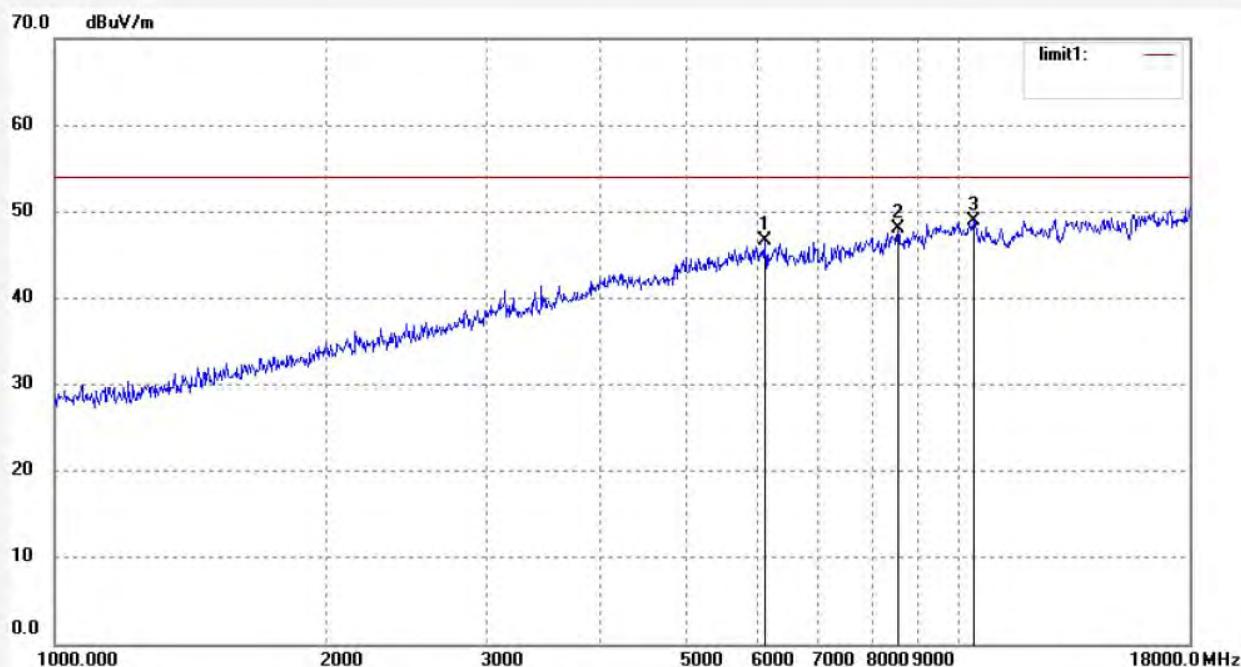
Mode: TX 2437MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6106.616	43.09	3.54	46.63	54.00	-7.37	peak			
2	8563.819	39.26	8.76	48.02	54.00	-5.98	peak			
3	10393.713	38.81	10.17	48.98	54.00	-5.02	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1906

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/07/37

EUT: 5.5inch 3G TABLET

Engineer Signature:

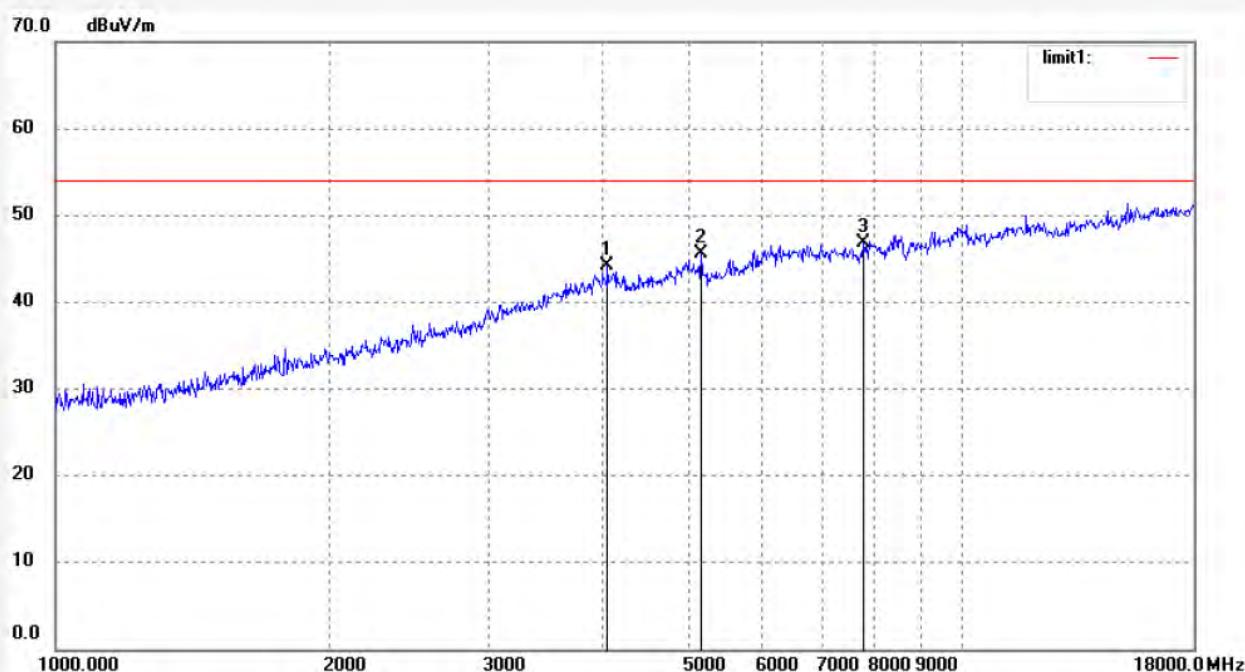
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4062.629	45.44	-1.17	44.27	54.00	-9.73	peak			
2	5149.197	44.06	1.45	45.51	54.00	-8.49	peak			
3	7784.729	40.25	6.54	46.79	54.00	-7.21	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1907

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/08/14

EUT: 5.5inch 3G TABLET

Engineer Signature:

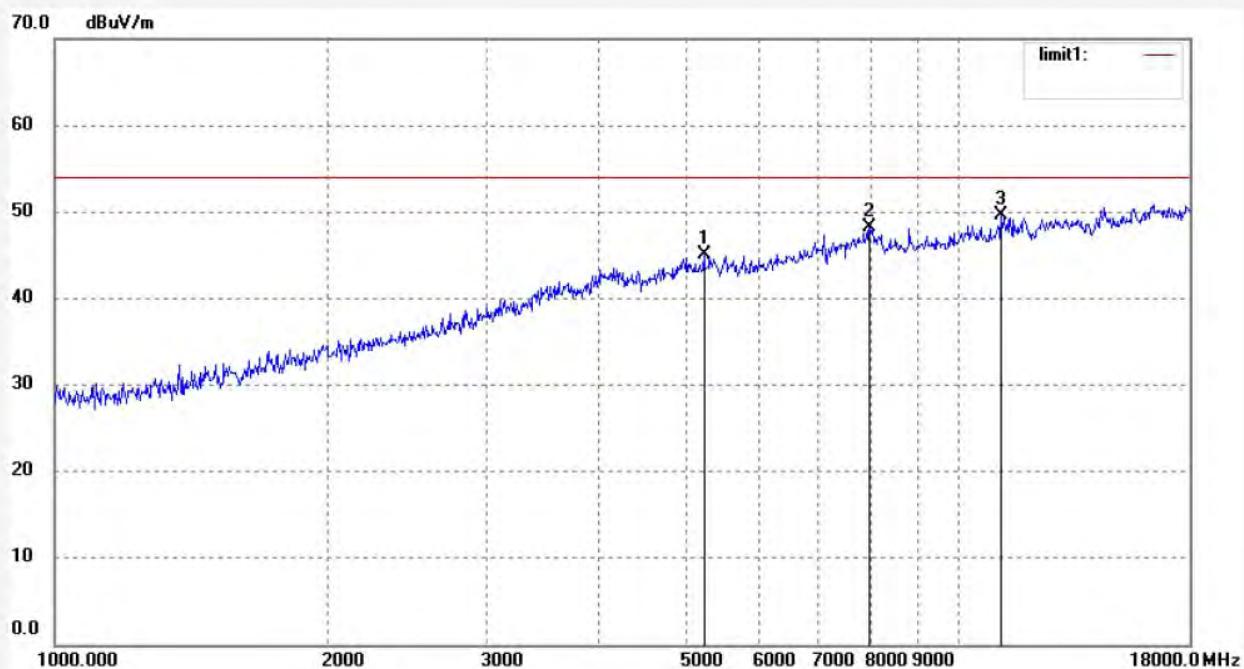
Mode: TX 2462MHz(802.11g)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5224.153	43.39	1.68	45.07	54.00	-8.93	peak			
2	7966.832	40.14	8.03	48.17	54.00	-5.83	peak			
3	11140.310	38.80	10.86	49.66	54.00	-4.34	peak			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1896

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/54/25

EUT: 5.5inch 3G TABLET

Engineer Signature:

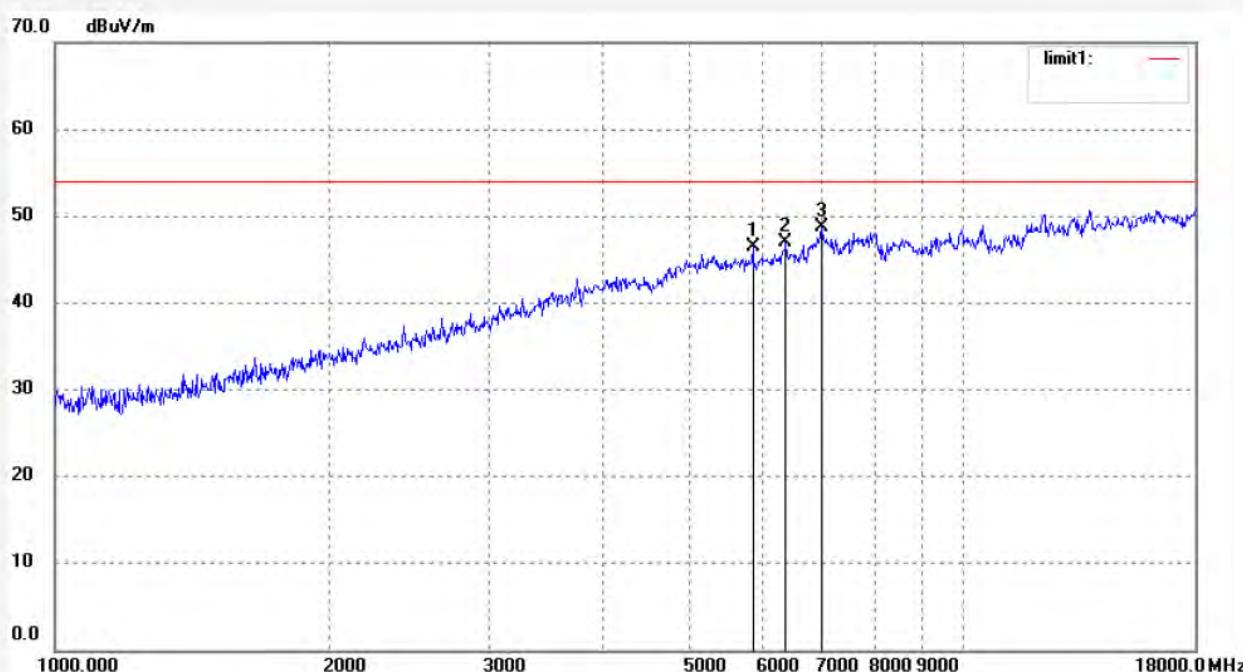
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5864.443	43.46	3.00	46.46	54.00	-7.54	peak			
2	6377.195	42.59	4.36	46.95	54.00	-7.05	peak			
3	6974.983	43.12	5.55	48.67	54.00	-5.33	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1897

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/56/29

EUT: 5.5inch 3G TABLET

Engineer Signature:

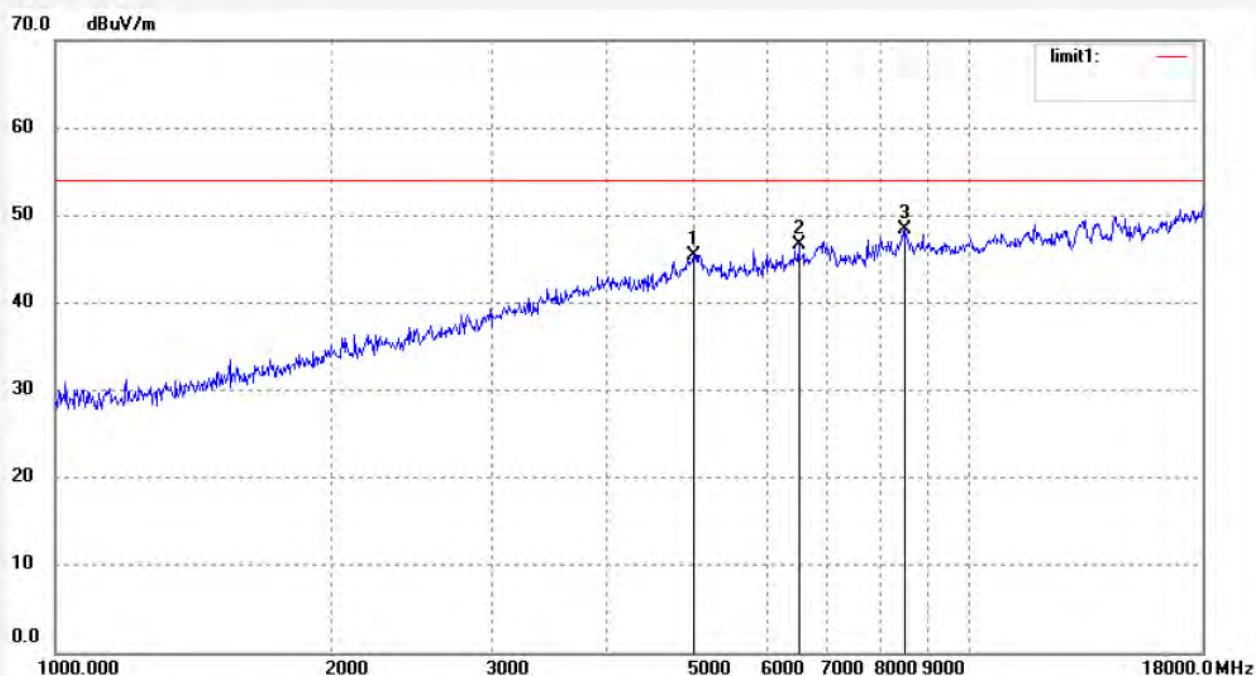
Mode: TX 2412MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5002.496	43.99	1.49	45.48	54.00	-8.52	peak			
2	6507.536	42.14	4.45	46.59	54.00	-7.41	peak			
3	8514.456	39.45	8.87	48.32	54.00	-5.68	peak			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg.A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1898

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/57/19

EUT: 5.5inch 3G TABLET

Engineer Signature:

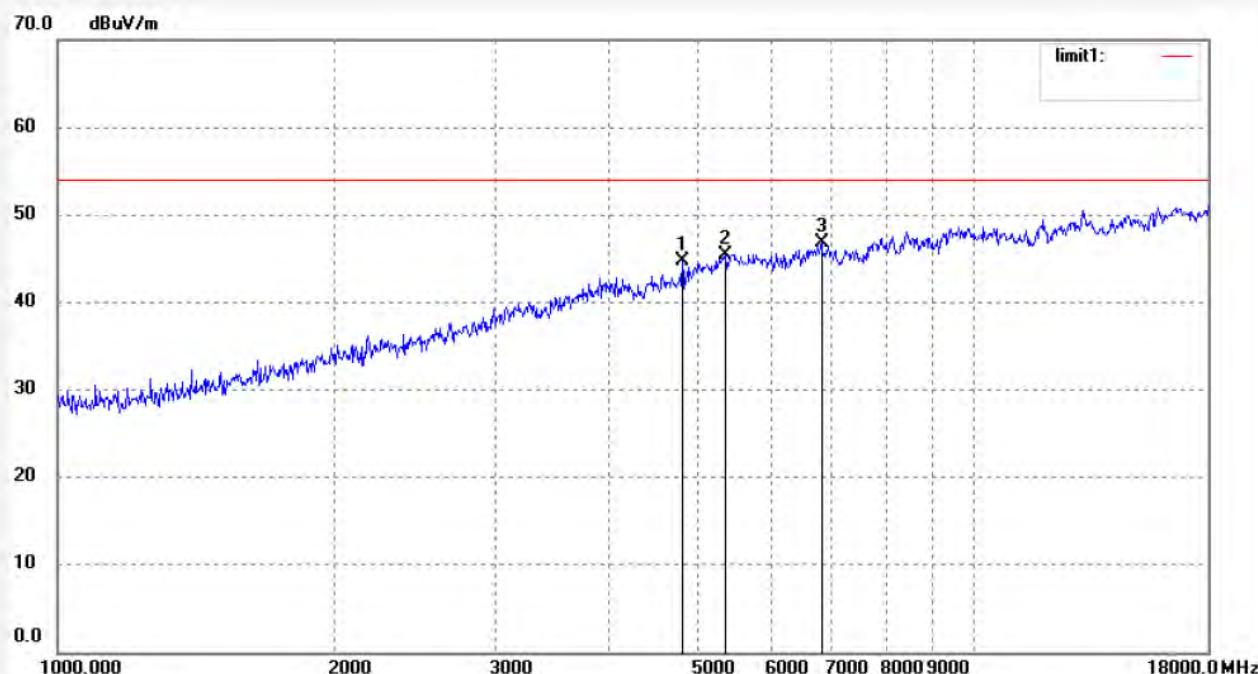
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.110	44.50	0.25	44.75	54.00	-9.25	peak			
2	5361.833	43.76	1.73	45.49	54.00	-8.51	peak			
3	6815.551	41.48	5.25	46.73	54.00	-7.27	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1899

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/58/28

EUT: 5.5inch 3G TABLET

Engineer Signature:

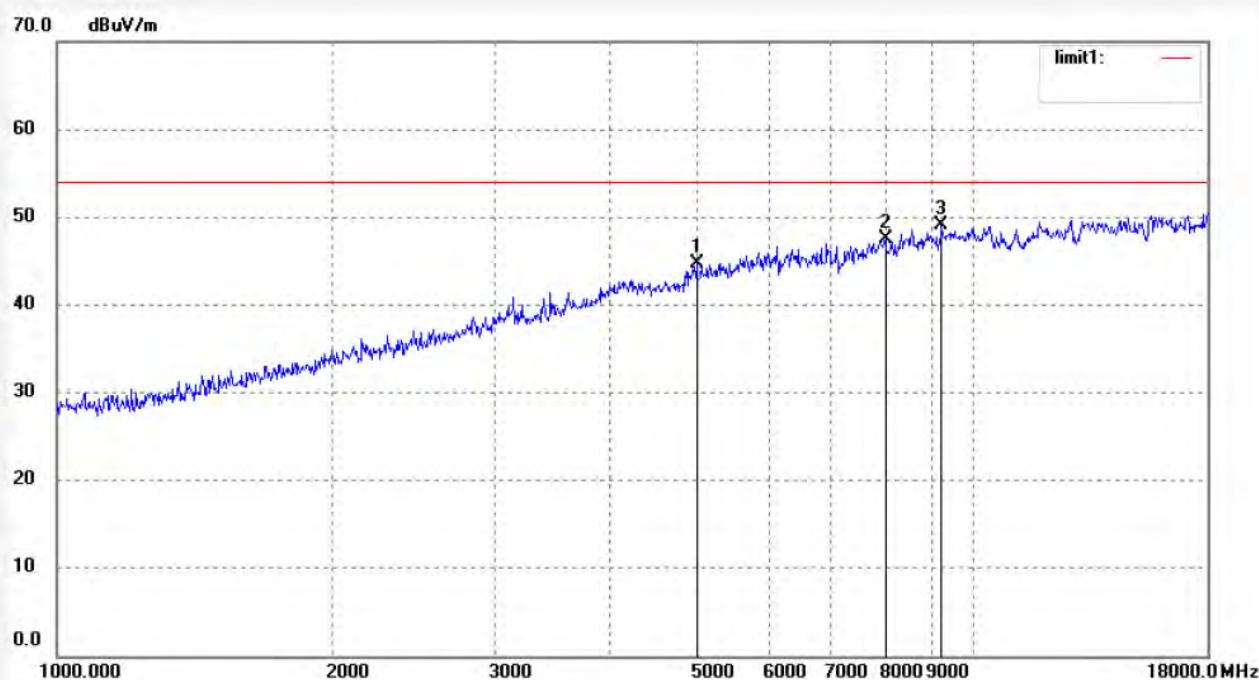
Mode: TX 2437MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4988.058	43.31	1.45	44.76	54.00	-9.24	peak			
2	8013.020	39.24	8.33	47.57	54.00	-6.43	peak			
3	9232.186	39.57	9.44	49.01	54.00	-4.99	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1900

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/59/37

EUT: 5.5inch 3G TABLET

Engineer Signature:

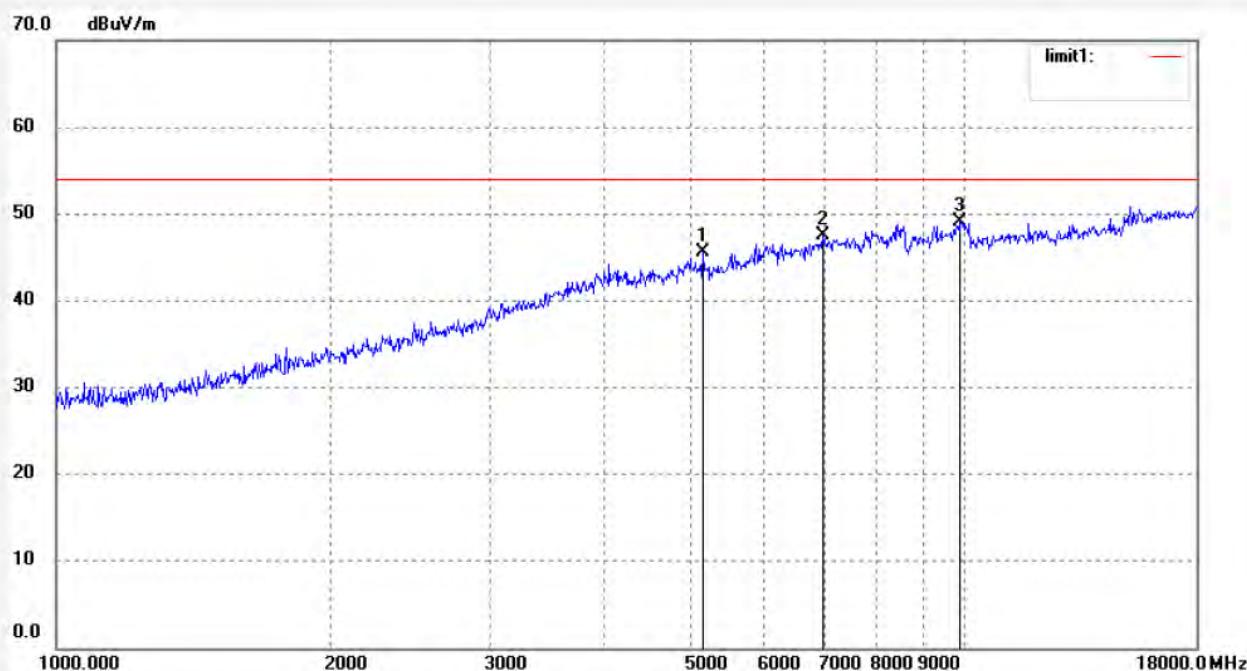
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5149.197	44.06	1.45	45.51	54.00	-8.49	peak			
2	6974.983	42.04	5.55	47.59	54.00	-6.41	peak			
3	9895.349	38.06	10.98	49.04	54.00	-4.96	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1901

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 10/01/11

EUT: 5.5inch 3G TABLET

Engineer Signature:

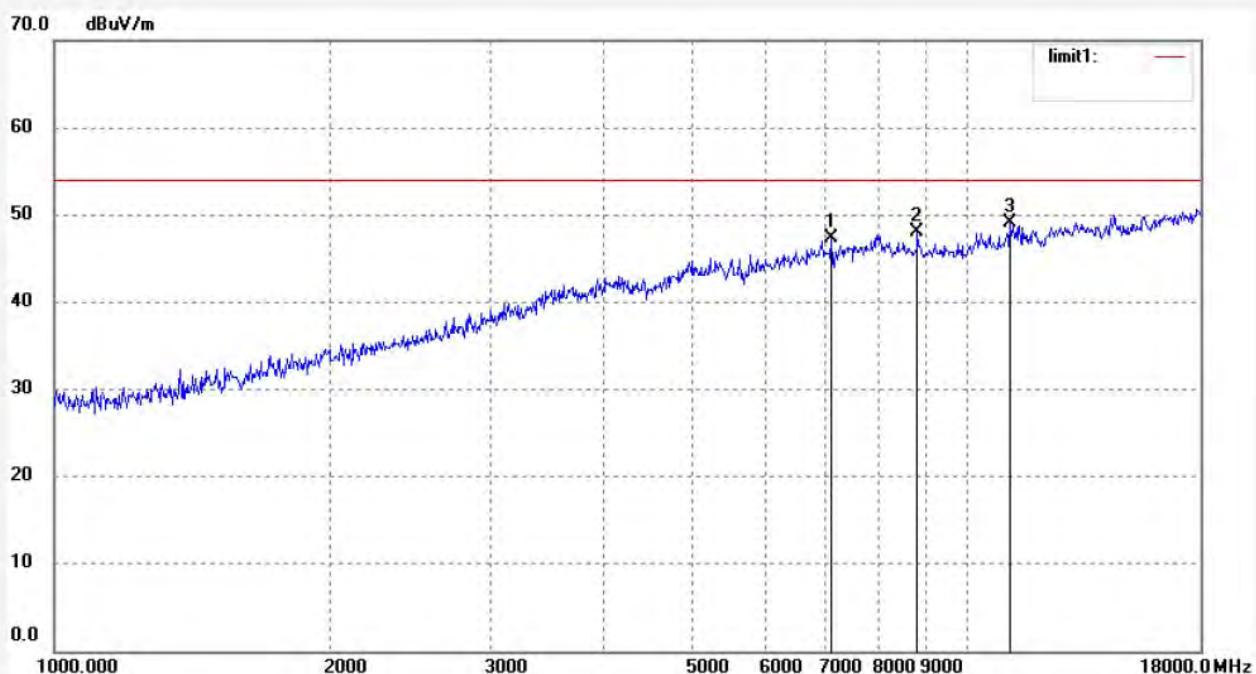
Mode: TX 2462MHz(802.11n20)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	7096.999	42.28	4.99	47.27	54.00	-6.73	peak			
2	8814.957	39.30	8.75	48.05	54.00	-5.95	peak			
3	11140.310	38.30	10.86	49.16	54.00	-4.84	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1890

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/46/15

EUT: 5.5inch 3G TABLET

Engineer Signature:

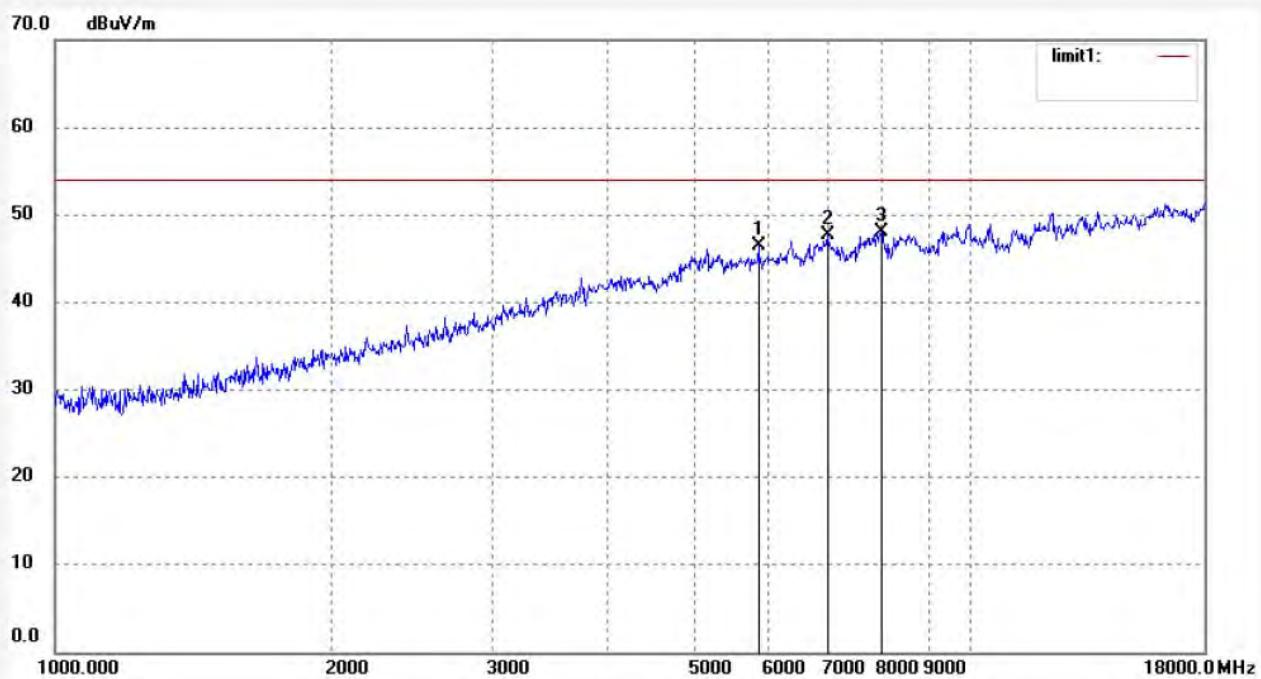
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5864.443	43.46	3.00	46.46	54.00	-7.54	peak			
2	6974.983	42.12	5.55	47.67	54.00	-6.33	peak			
3	7989.892	39.84	8.22	48.06	54.00	-5.94	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1891

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/47/48

EUT: 5.5inch 3G TABLET

Engineer Signature:

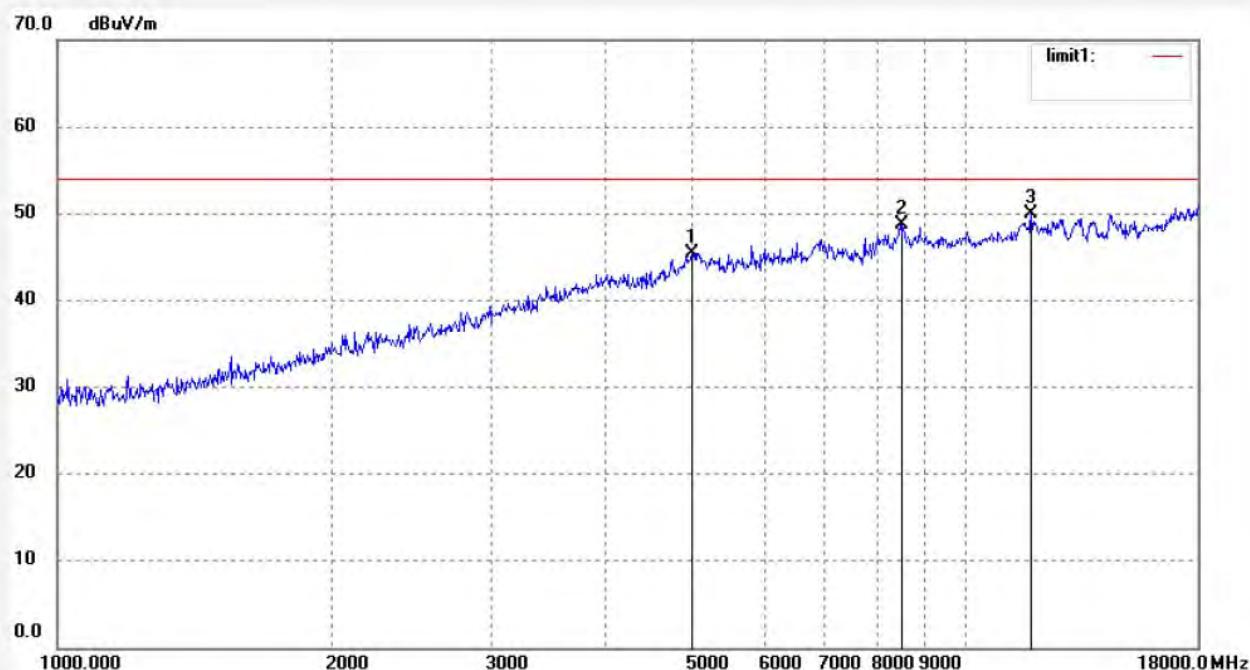
Mode: TX 2422MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5002.496	43.99	1.49	45.48	54.00	-8.52	peak			
2	8514.456	39.95	8.87	48.82	54.00	-5.18	peak			
3	11803.280	36.57	13.33	49.90	54.00	-4.10	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1892

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27/

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/48/51

EUT: 5.5inch 3G TABLET

Engineer Signature:

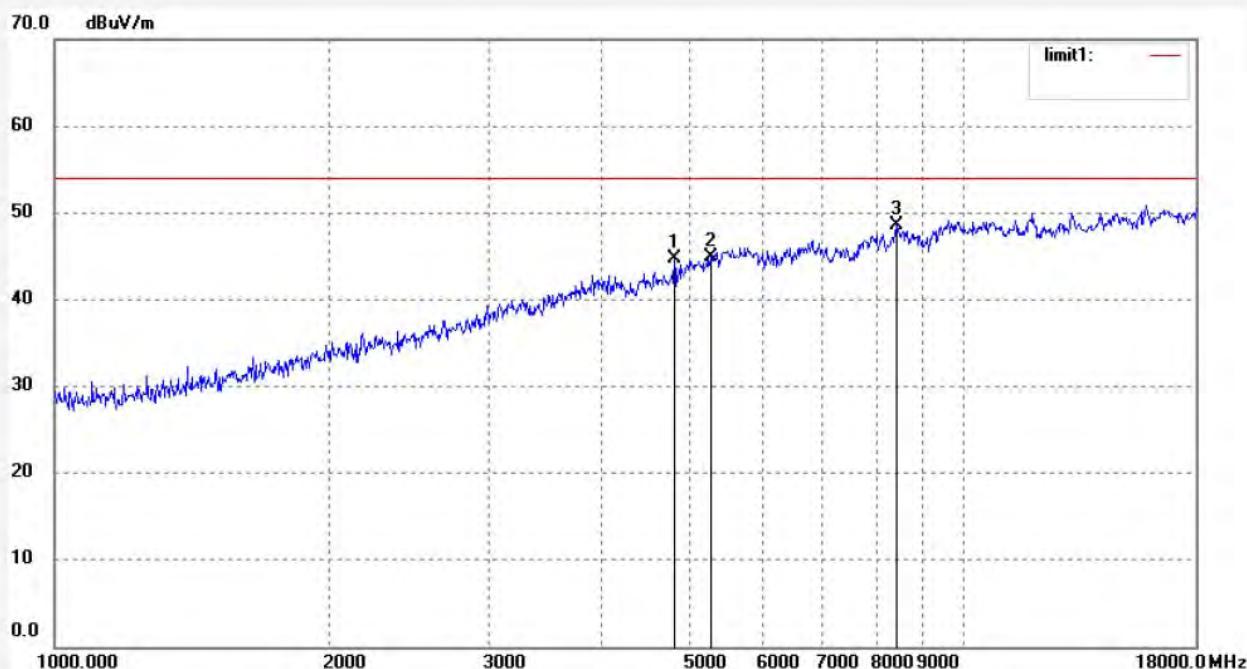
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	4804.110	44.50	0.25	44.75	54.00	-9.25	peak			
2	5269.649	43.20	1.76	44.96	54.00	-9.04	peak			
3	8440.946	39.54	8.98	48.52	54.00	-5.48	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

 Site: 1# Chamber
 Tel:+86-0755-26503290
 Fax:+86-0755-26503396

Job No.: RICKY #1893

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/49/57

EUT: 5.5inch 3G TABLET

Engineer Signature:

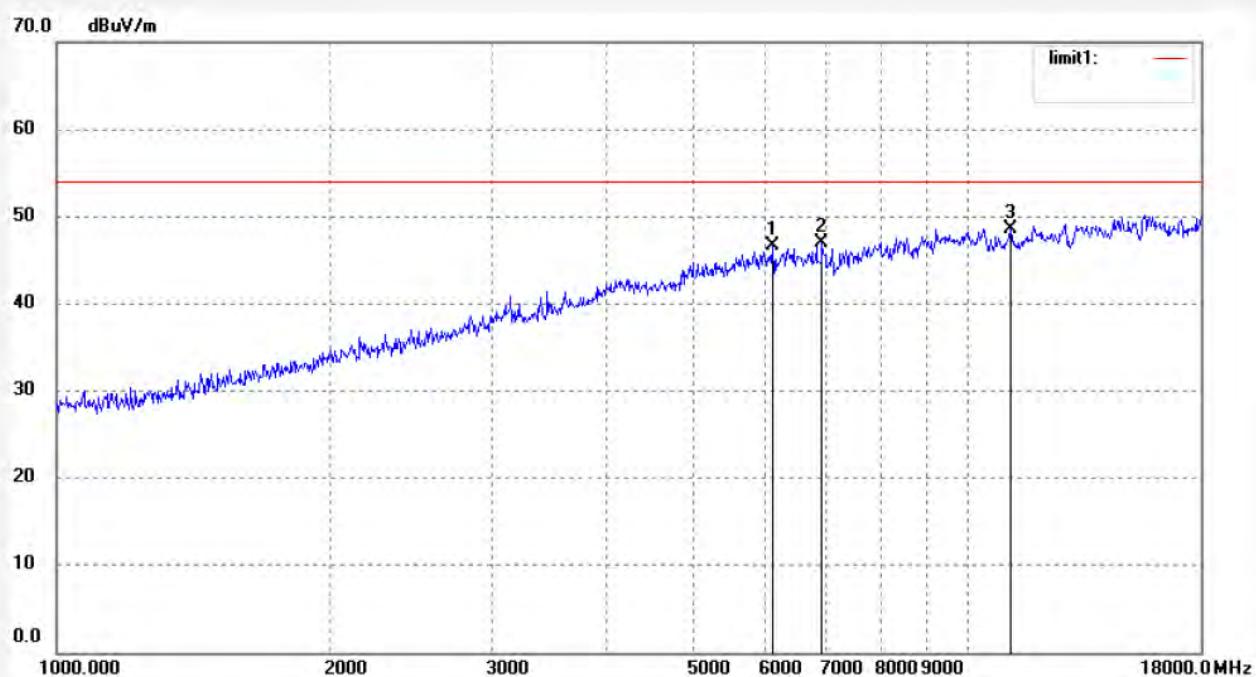
Mode: TX 2437MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	6106.616	43.09	3.54	46.63	54.00	-7.37	peak			
2	6914.763	41.47	5.44	46.91	54.00	-7.09	peak			
3	11140.310	37.65	10.86	48.51	54.00	-5.49	peak			


ACCURATE TECHNOLOGY CO., LTD.

 F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
 Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

Tel:+86-0755-26503290

Fax:+86-0755-26503396

Job No.: RICKY #1894

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/51/33

EUT: 5.5inch 3G TABLET

Engineer Signature:

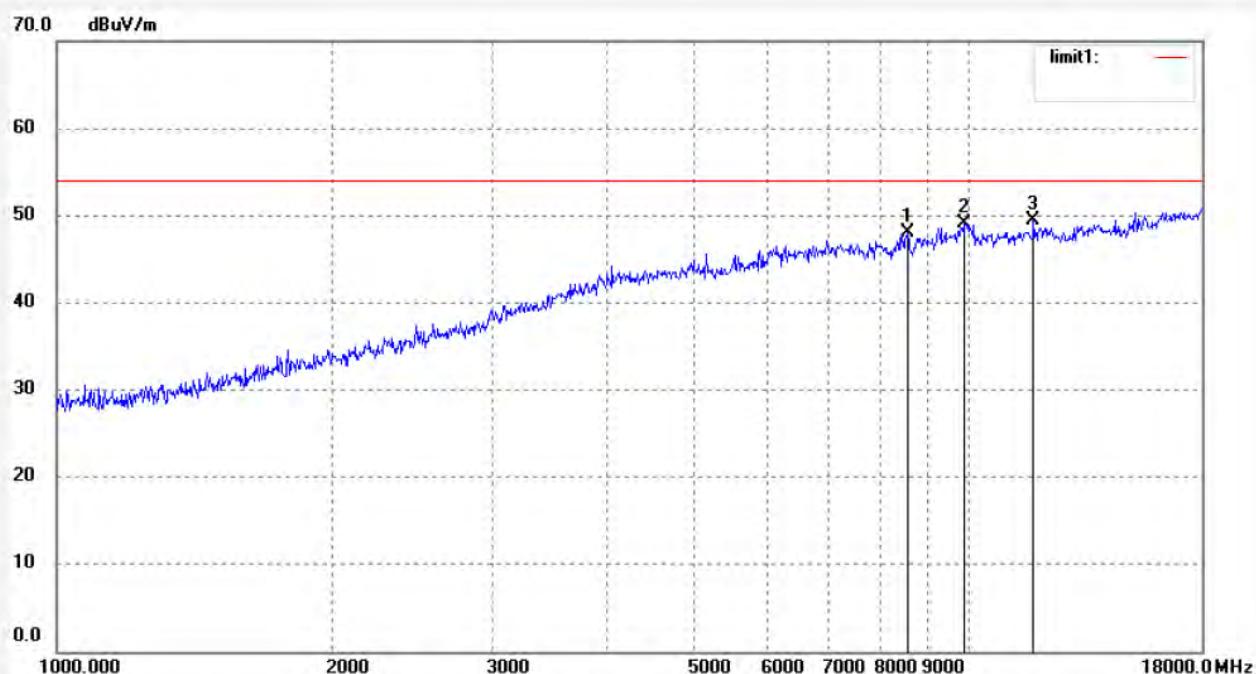
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	8563.819	39.29	8.76	48.05	54.00	-5.95	peak			
2	9895.349	38.06	10.98	49.04	54.00	-4.96	peak			
3	11769.214	36.29	13.14	49.43	54.00	-4.57	peak			


ACCURATE TECHNOLOGY CO., LTD.

F1,Bldg,A,Changyuan New Material Port Keyuan Rd,
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber
Tel:+86-0755-26503290
Fax:+86-0755-26503396

Job No.: RICKY #1895

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/27

Temp.(C)/Hum.(%) 25 C / 55 %

Time: 9/53/25

EUT: 5.5inch 3G TABLET

Engineer Signature:

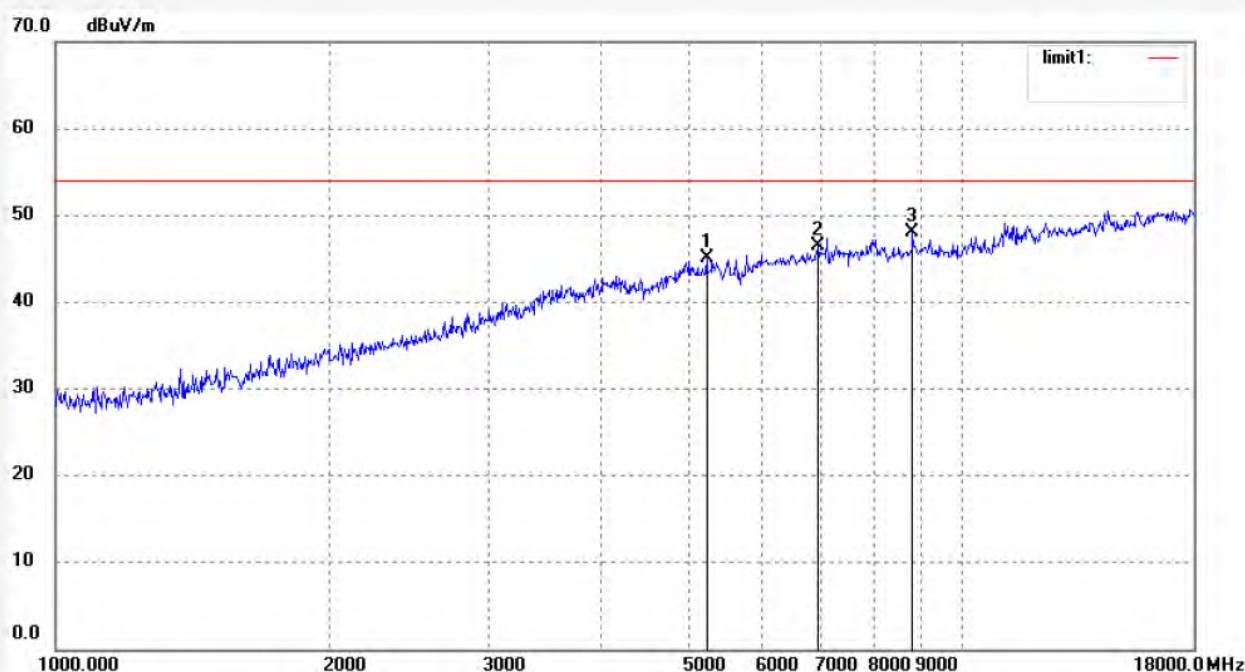
Mode: TX 2452MHz(802.11n40)

Distance: 3m

Model: Force XT55SP

Manufacturer: IMC

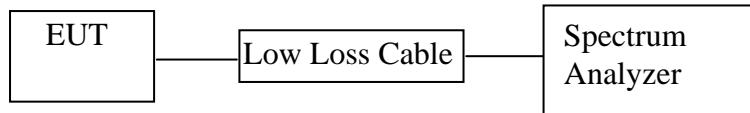
Note: Report No:ATE20141092



No.	Freq. (MHz)	Reading (dBuV/m)	Factor (dB)	Result (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Degree (deg.)	Remark
1	5224.153	43.39	1.68	45.07	54.00	-8.93	peak			
2	6934.778	41.05	5.48	46.53	54.00	-7.47	peak			
3	8814.957	39.30	8.75	48.05	54.00	-5.95	peak			

10.CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

10.1.Block Diagram of Test Setup



10.2.The Requirement For Section 15.247(d)

Section 15.247(d): In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in Section 15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in Section 15.205(a), must also comply with the radiated emission limits specified in Section 15.209(a).

10.3.EUT Configuration on Measurement

The equipment is installed on the emission measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

10.4.Operating Condition of EUT

10.4.1.Setup the EUT and simulator as shown as Section 10.1.

10.4.2.Turn on the power of all equipment.

10.4.3.Let the EUT work in TX modes measure it. The transmit frequency are 2412-2462 and 2422-2452MHz. We select 2412MHz, 2437MHz, 2462MHz and 2422MHz, 2437MHz, 2452MHz TX frequency to transmit.

10.5. Test Procedure

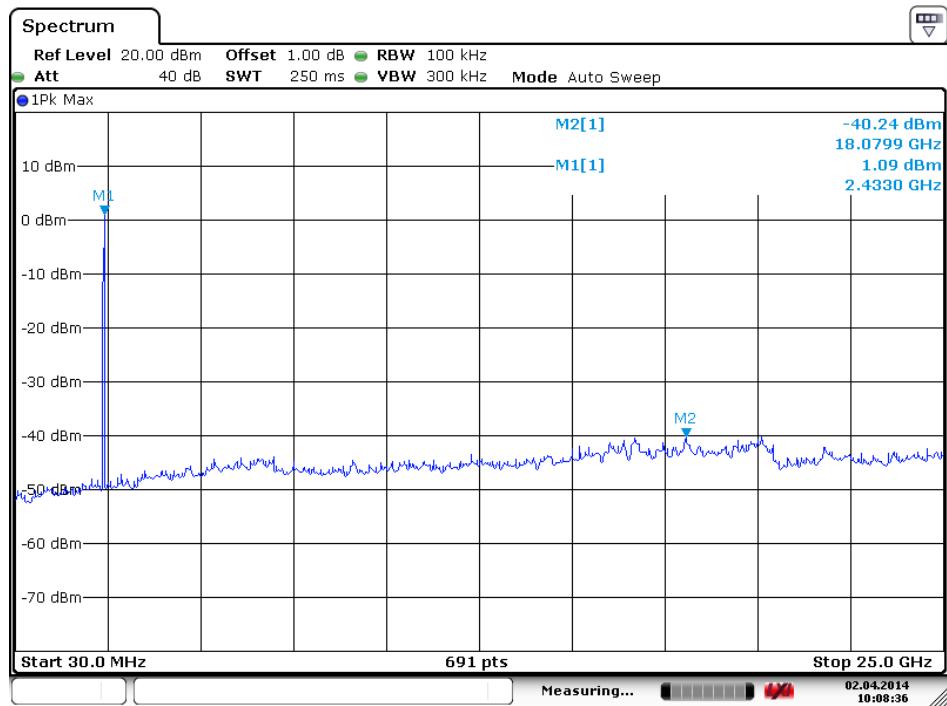
- 10.5.1. The transmitter output was connected to the spectrum analyzer via a low loss cable.
- 10.5.2. Set RBW of spectrum analyzer to 100kHz and VBW to 300kHz (below 1GHz).
- 10.5.3. Set RBW of spectrum analyzer to 1MHz and VBW to 3MHz (above 1GHz).
- 10.5.4. The Conducted Spurious Emission was measured and recorded.

10.6. Test Result

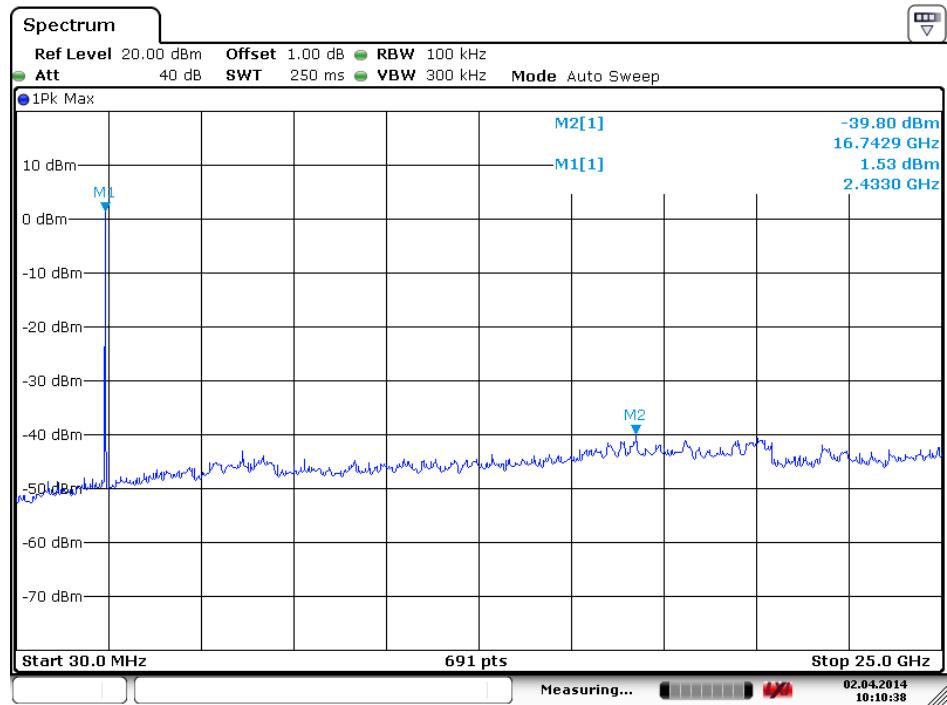
Pass.

The spectrum analyzer plots are attached as below.

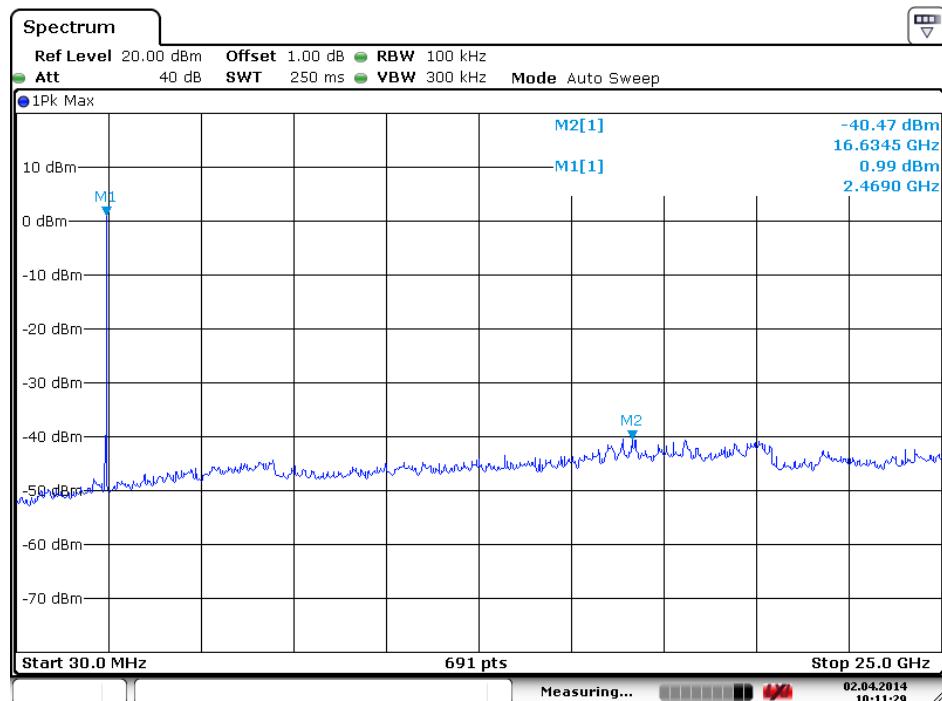
TX 802.11b Channel Low 2412MHz



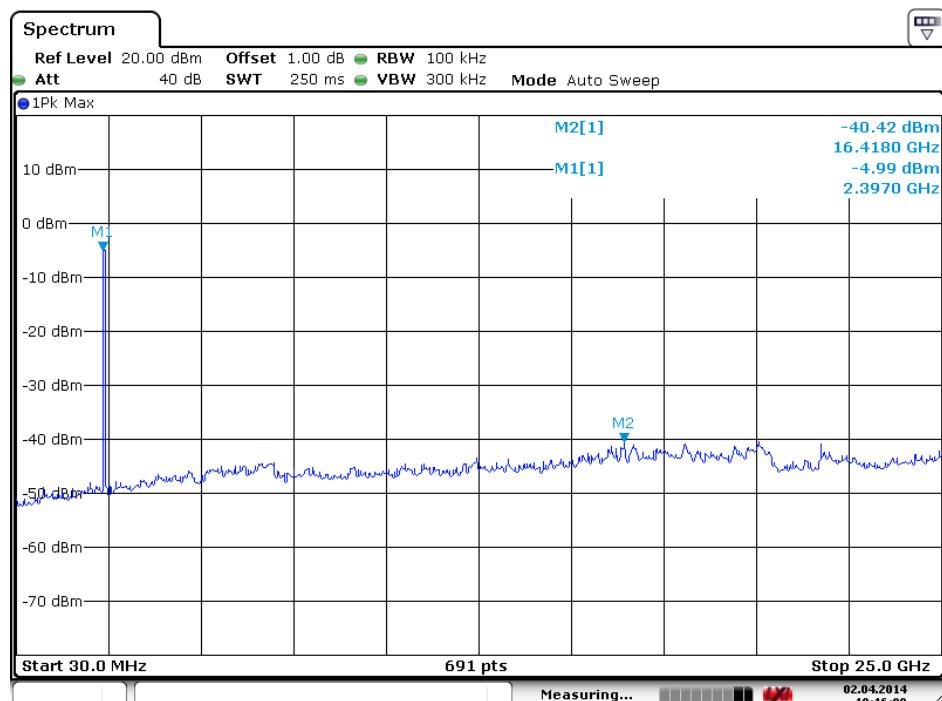
TX 802.11b Channel Middle 2437MHz



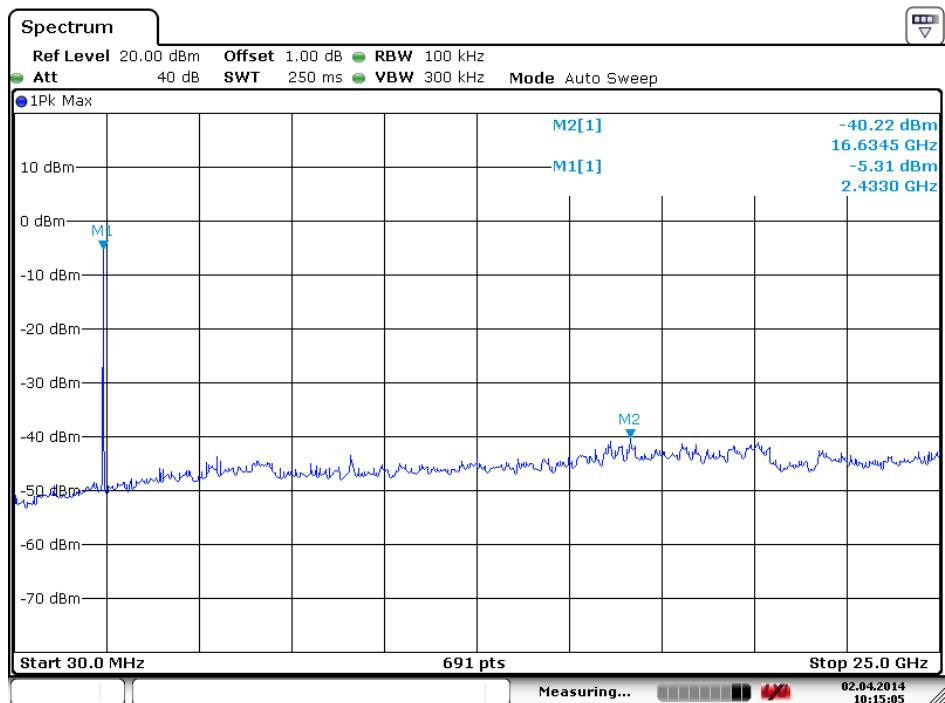
TX 802.11b Channel High 2462MHz



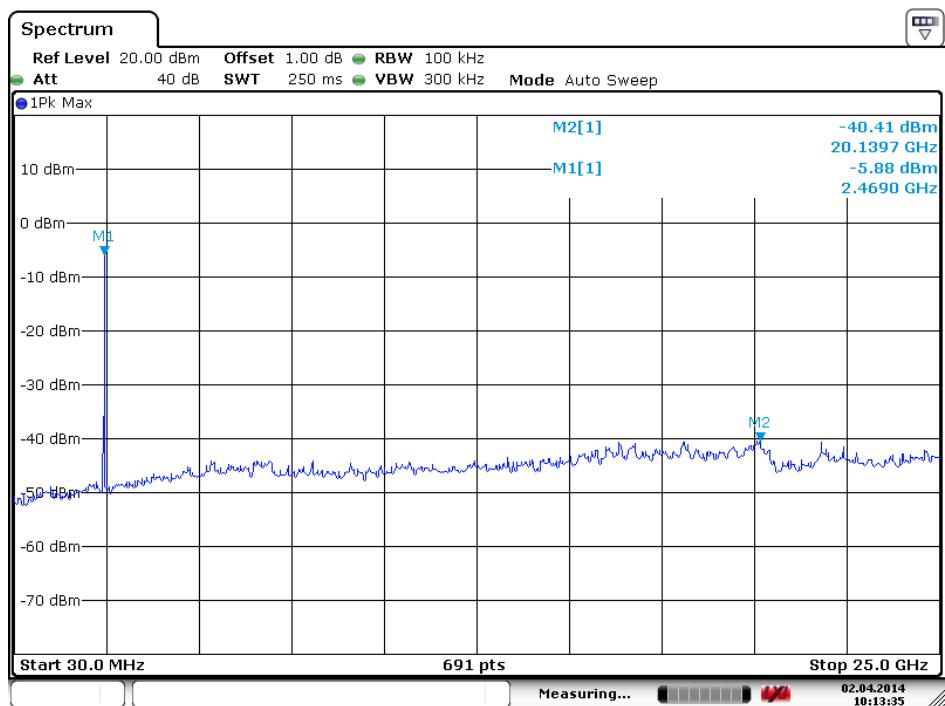
TX 802.11g Channel Low 2412MHz



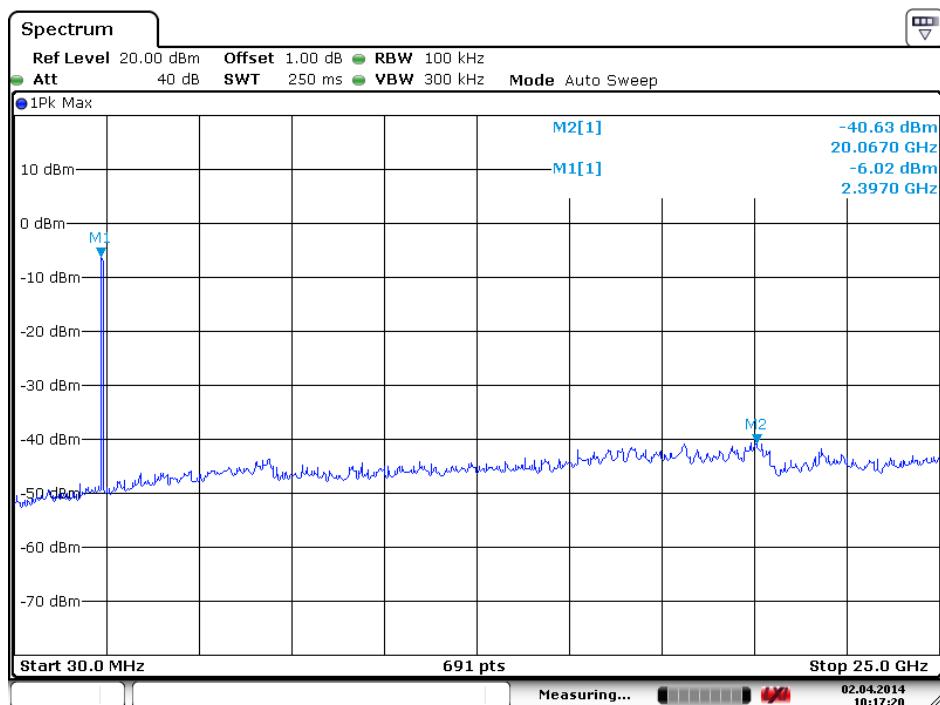
TX 802.11g Channel Middle 2437MHz



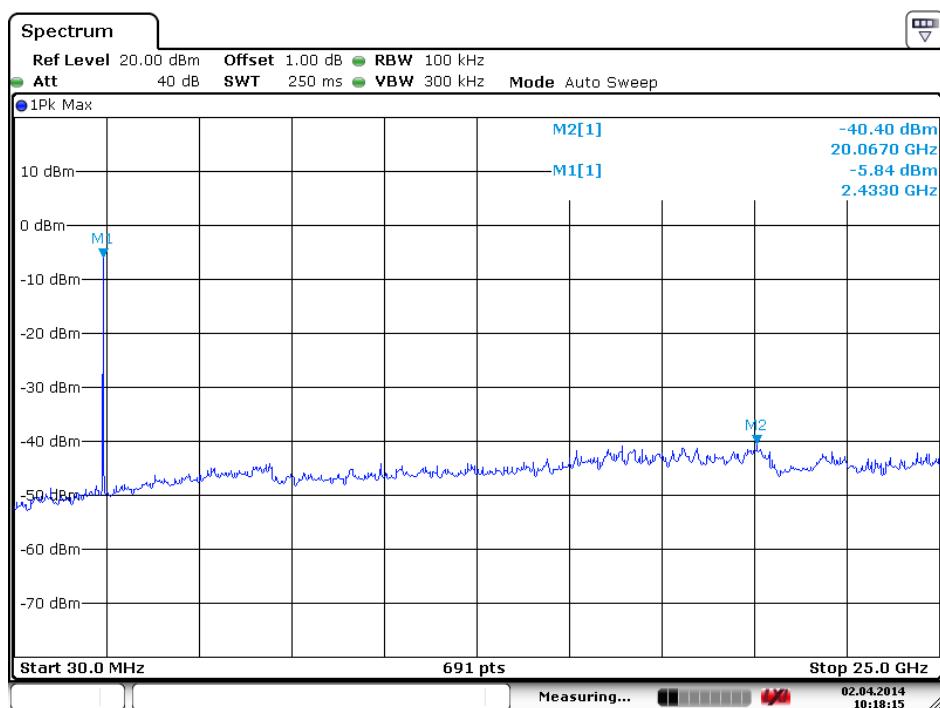
TX 802.11g Channel High 2462MHz



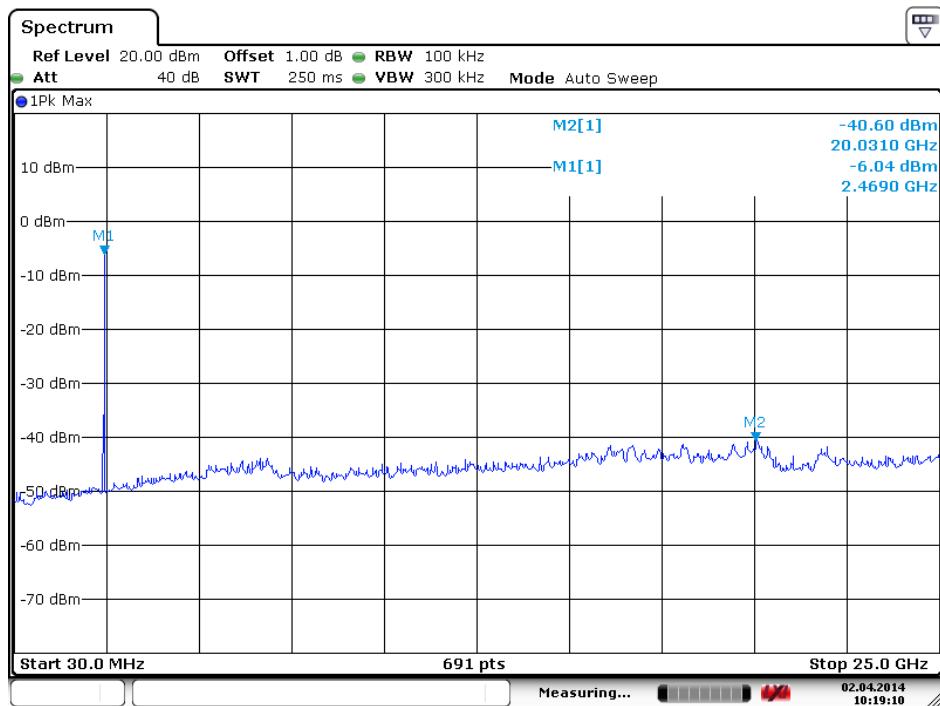
TX 802.11n Channel Low 2412MHz (20MHz)



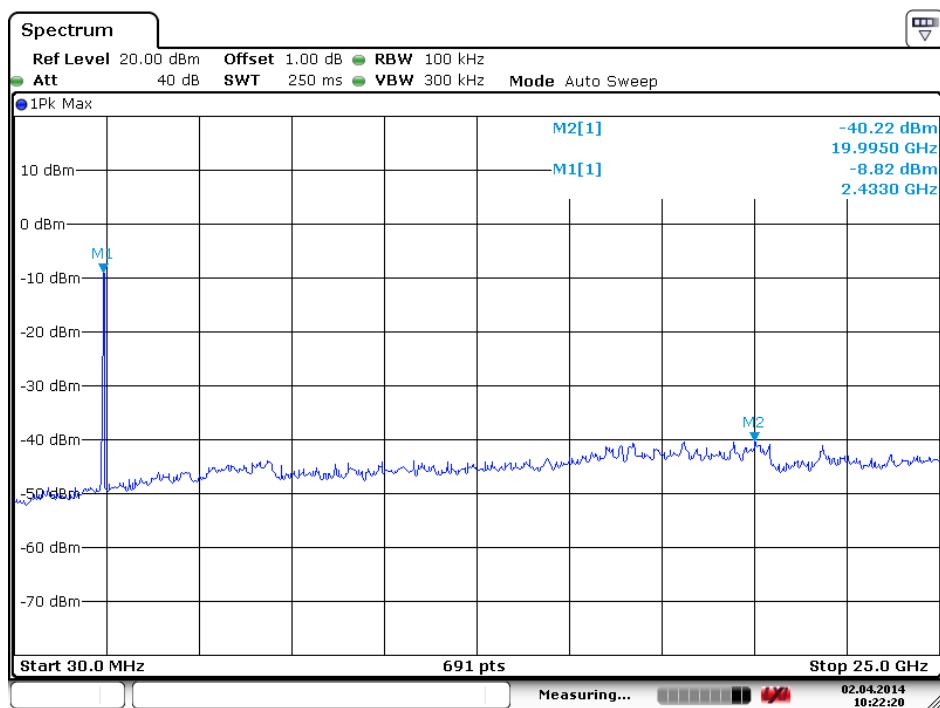
TX 802.11n Channel Middle 2437MHz (20MHz)



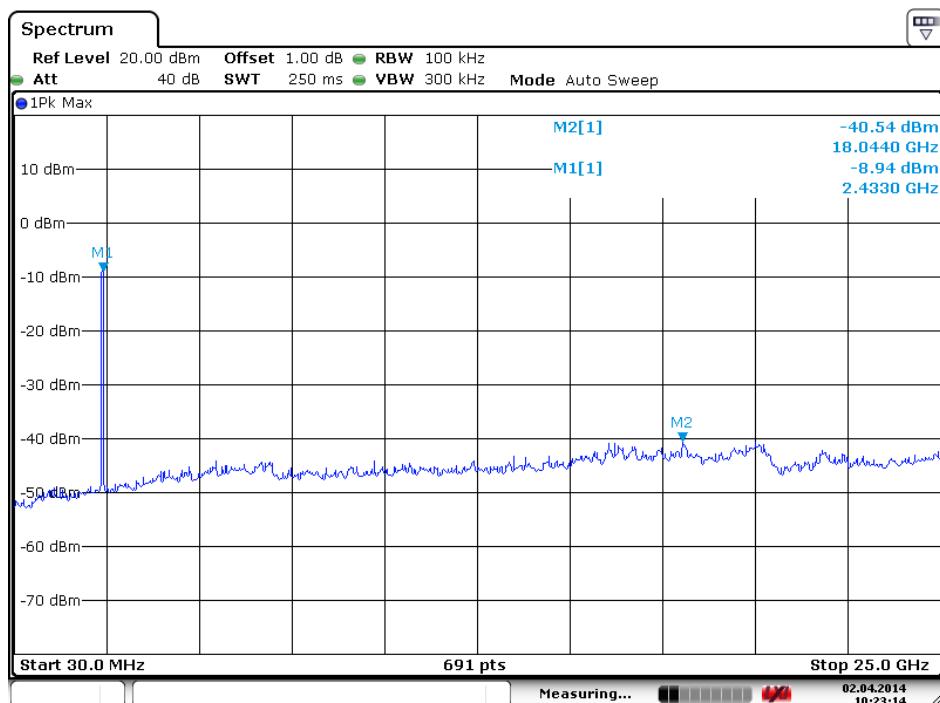
TX 802.11n Channel High 2462MHz (20MHz)



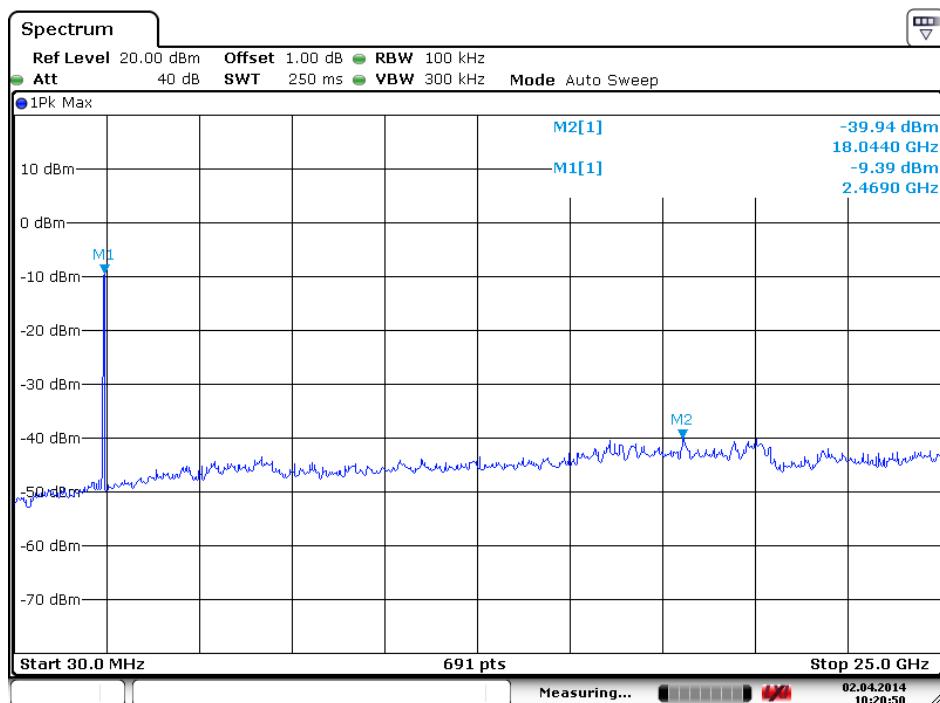
TX 802.11n Channel Low 2422MHz (40MHz)



TX 802.11n Channel Middle 2437MHz (40MHz)



TX 802.11n Channel High 2452MHz (40MHz)

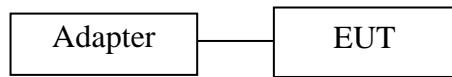


11.AC POWER LINE CONDUCTED EMISSION FOR FCC PART

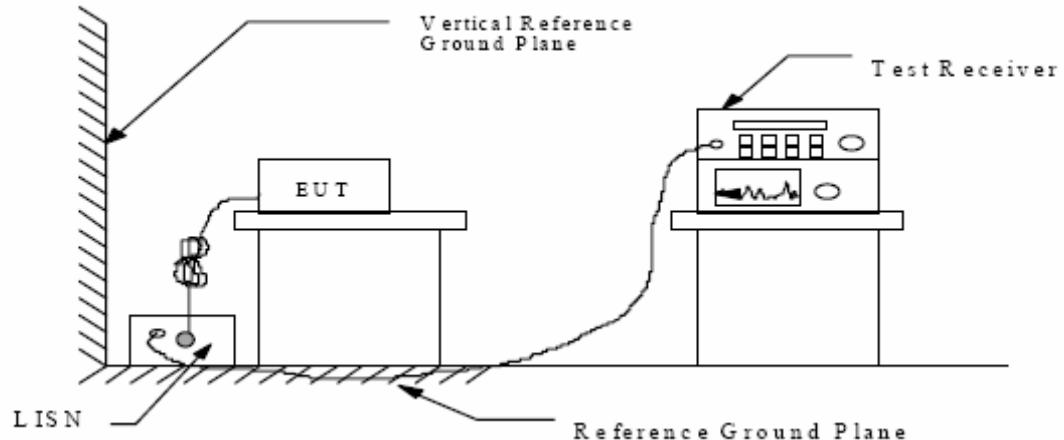
15 SECTION 15.207(A)

11.1.Block Diagram of Test Setup

11.1.1.Block diagram of connection between the EUT and simulators



11.1.2.Shielding Room Test Setup Diagram



11.2.The Emission Limit

11.2.1.Conducted Emission Measurement Limits According to Section 15.207(a)

Frequency (MHz)	Limit dB(μ V)	
	Quasi-peak Level	Average Level
0.15 - 0.50	66.0 – 56.0 *	56.0 – 46.0 *
0.50 - 5.00	56.0	46.0
5.00 - 30.00	60.0	50.0

* Decreases with the logarithm of the frequency.

11.3.Configuration of EUT on Measurement

The equipment are installed on the Conducted Emission Measurement to meet the commission requirements and operating regulations in a manner which tends to maximize its emission characteristics in normal application.

11.4.Operating Condition of EUT

11.4.1.Setup the EUT and simulator as shown as Section 11.1.

11.4.2.Turn on the power of all equipment.

11.4.3.Let the EUT work in (Charging) mode measure it.

11.5.Test Procedure

The EUT is put on the plane 0.8m high above the ground by insulating support and is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC lines are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to ANSI C63.4: 2009 on Conducted Emission Measurement.

The bandwidth of test receiver (R & S ESCS30) is set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

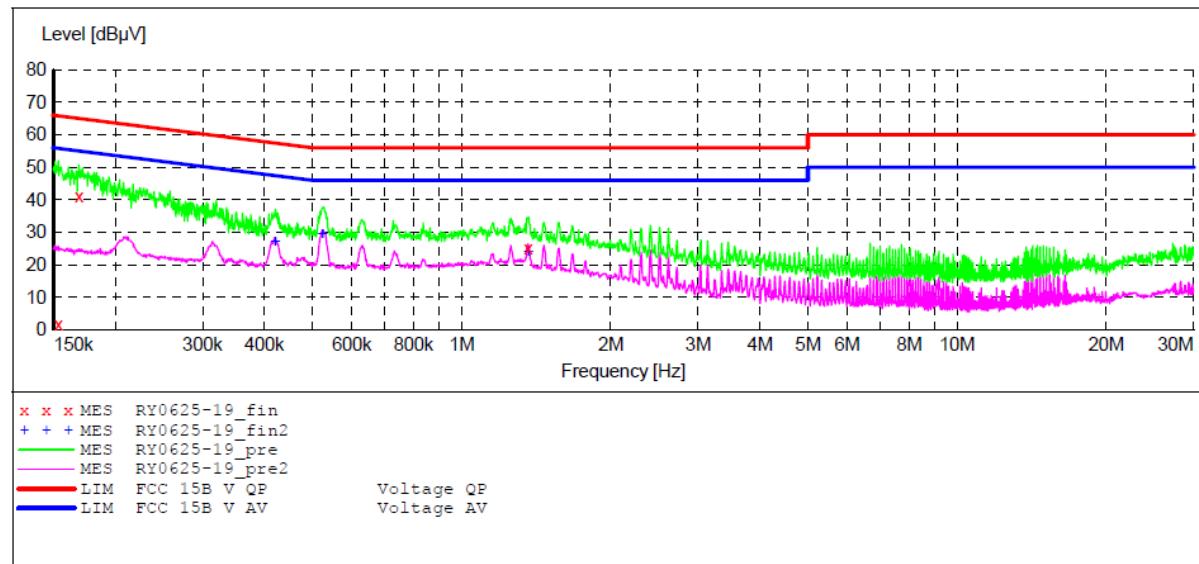
11.6.Power Line Conducted Emission Measurement Results

ACCURATE TECHNOLOGY CO., LTD**CONDUCTED EMISSION STANDARD FCC PART 15B**

EUT: 5.5inch 3G TABLET M/N:Force XT55SP
 Manufacturer: IMC
 Operating Condition: Wifi/Charging
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: L 120V/60Hz
 Comment:
 Report No:ATE20141092

SCAN TABLE: "V 150K-30MHz fin"

Short Description: _SUB_STD_VTERM2 1.70
 Start Stop Step Detector Meas. IF Transducer
 Frequency Frequency Width Time Bandw.
 150.0 kHz 30.0 MHz 4.5 kHz QuasiPeak 1.0 s 9 kHz NSLK8126 2008
 Average

**MEASUREMENT RESULT: "RY0625-19_fin"**

6/25/2014 4:16PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.153333	41.70	10.5	66	24.1	QP	L1	GND
	0.168767	41.20	10.5	65	23.8	QP	L1	GND
	1.364343	25.20	10.9	56	30.8	QP	L1	GND

MEASUREMENT RESULT: "RY0625-19_fin2"

6/25/2014 4:16PM	Frequency	Level	Transd	Limit	Margin	Detector	Line	PE
	MHz	dB μ V	dB	dB μ V	dB			
	0.419728	26.90	10.7	48	20.6	AV	L1	GND
	0.523944	29.20	10.7	46	16.8	AV	L1	GND
	1.361620	24.00	10.9	46	22.0	AV	L1	GND

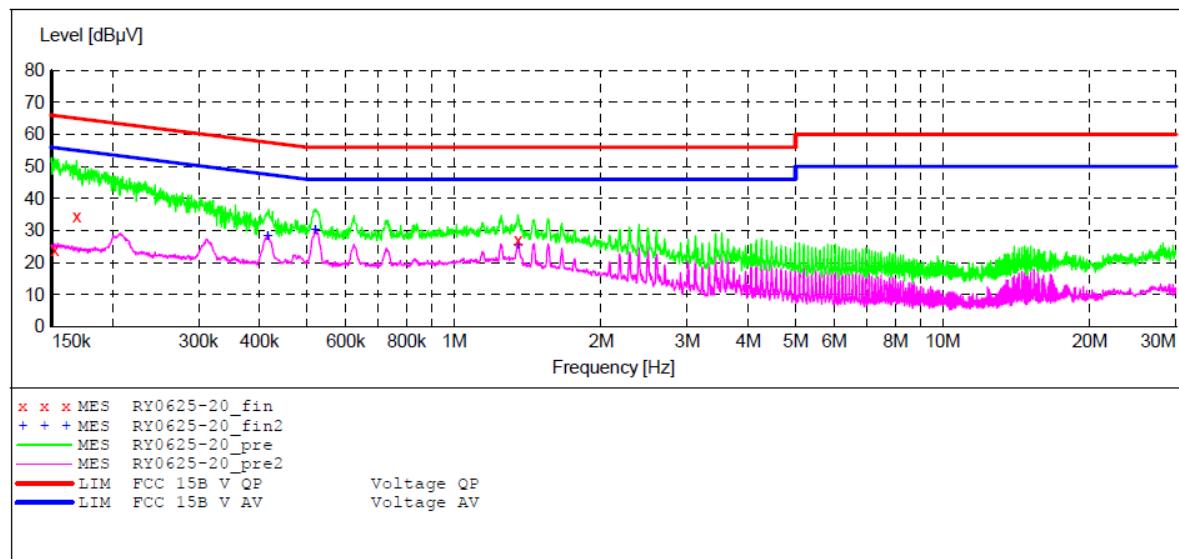
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: 5.5inch 3G TABLET M/N:Force XT55SP
 Manufacturer: IMC
 Operating Condition: Wifi/Charging
 Test Site: 1#Shielding Room
 Operator: Ricky
 Test Specification: N 120V/60Hz
 Comment: Report No.:ATE20141092

SCAN TABLE: "V 150K-30MHz fin"

Start Frequency	Stop Frequency	Step Width	Detector	Meas.	IF Time	Transducer Bandw.	Transducer
150.0 kHz	30.0 MHz	4.5 kHz	QuasiPeak	1.0 s	9 kHz	NSLK8126	2008 Average



MEASUREMENT RESULT: "RY0625-20_fin"

6/25/2014 4:19PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.152113	44.00	10.5	66	21.9	QP	N	GND
0.168767	39.40	10.5	65	25.6	QP	N	GND
1.350781	27.10	10.9	56	28.9	QP	N	GND

MEASUREMENT RESULT: "RY0625-20_fin2"

6/25/2014 4:19PM

Frequency MHz	Level dB μ V	Transd dB	Limit dB μ V	Margin dB	Detector	Line	PE
0.415556	28.40	10.7	48	19.1	AV	N	GND
0.519773	30.30	10.7	46	15.7	AV	N	GND
1.350781	25.40	10.9	46	20.6	AV	N	GND

12. ANTENNA REQUIREMENT

12.1. The Requirement

According to Section 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device.

12.2. Antenna Construction

Device is equipped with unique antenna, which isn't displaced by other antenna. Therefore, the equipment complies with the antenna requirement of Section 15.203.

