

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

4 inch 3G TABLET
Model No.: ICE

FCC ID: 2ACI7-ICE

Prepared for : IMC INTERNATIONAL INC.
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Report Number : ATE20141088
Date of Test : Jun 18, 2014- July 11, 2014
Date of Report : July 11, 2014

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Test Report Certification

Applicant : IMC INTERNATIONAL INC.
Manufacturer : IMC INTERNATIONAL INC.
EUT Description : 4 inch 3G TABLET
(A) MODEL NO.: ICE
(B) Trade Name.: /
(C) POWER SUPPLY: DC 3.7V (Powered by battery) or AC 120V/60Hz
(Powered by adapter)

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 : Jun 18, 2014-July 11, 2014

Prepared by : Tim Zhang
(Tim.zhang, Engineer)

Approved & Authorized Signer : Sean Liu
(Sean Liu, Manager)

1. GENERAL INFORMATION

1.1. Description of Device (EUT)

| | | |
|-------------------------|---|---|
| EUT | : | 4 inch 3G TABLET |
| Model Number | : | ICE |
| Bluetooth version | : | Bluetooth V4.0 LE |
| Frequency Range | : | 2402MHz-2480MHz |
| Number of Channels | : | 40 |
| Type of Antenna | : | Integral Antenna |
| Antenna gain | : | 1.0dBi |
| Power Supply | : | DC 3.7V (Powered by Battery) AC 120V/60Hz (Powered by Adapter) |
| Adapter | : | Model:UBP-A806-051000 Input: AC 100-240VAC 50/60Hz Output: 5.0V 1.0A |
| Modulation mode | : | GFSK |
| 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 | : | Jun 18, 2014 |
| Date of Test | : | Jun 18, 2014-July 11, 2014 |

1.2.Carrier Frequency of Channels

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channe 1 | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|----------|-----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

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 (9kHz-30MHz) | = 3.08dB, k=2 |
| Radiated emission expanded uncertainty (30MHz-1000MHz) | = 4.42dB, k=2 |
| Radiated emission expanded uncertainty (Above 1GHz) | = 4.06dB, k=2 |

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 | BBHA9170 | 9170-359 | 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: **BLE Transmitting mode**

Low Channel: 2402MHz

Middle Channel: 2440MHz

High Channel: 2480MHz

3.2.Configuration and peripherals

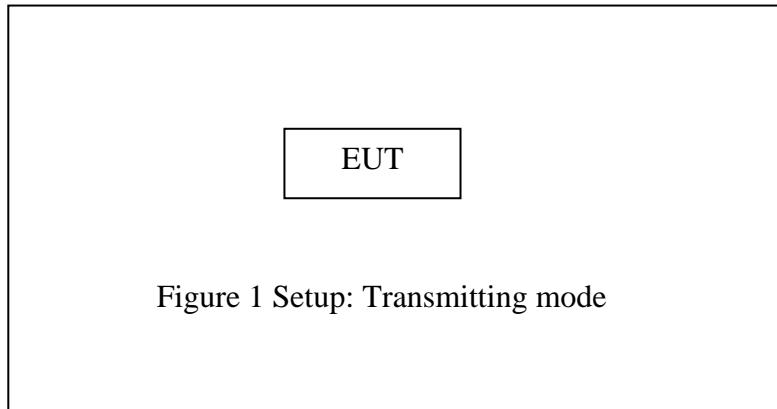


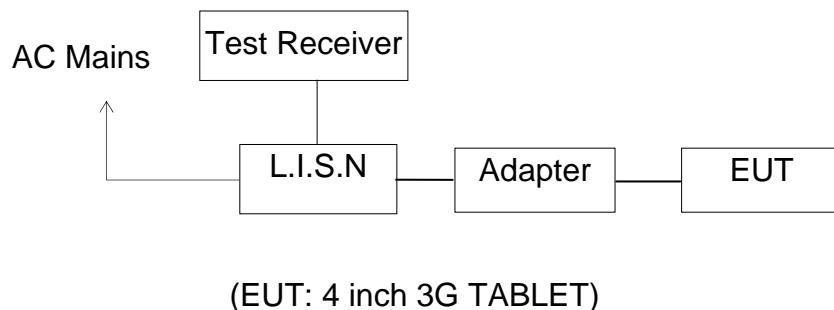
Figure 1 Setup: Transmitting mode

4. TEST PROCEDURES AND RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------------------|----------------------------------|-----------|
| Section 15.207 | Power Line Conducted Emission | Compliant |
| 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 15.203 | Antenna Requirement | Compliant |

5. POWER LINE CONDUCTED MEASUREMENT

5.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

5.2. Power Line Conducted Emission Measurement Limits

| 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 |

NOTE1: The lower limit shall apply at the transition frequencies.
NOTE2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

5.3. Configuration of EUT on Measurement

The following equipments are installed on Power Line Conducted Emission Measurement to meet the commission requirement and operating regulations in a manner, which tends to maximize its emission characteristics in a 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 test mode and measure it.

5.5. 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.

5.6.Power Line Conducted Emission Measurement Results

PASS.

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

| Test mode : Charging&BT communicating | | | | | | | |
|---|---------------------|--------------|---------------------|--------------|----------|------|-----|
| MEASUREMENT RESULT: "IMC-BT4-V02_fin" | | | | | | | |
| 2014-6-27 9:09 | | | | | | | |
| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
| 0.150000 | 57.10 | 10.5 | 66 | 8.9 | QP | L1 | GND |
| 0.215783 | 57.30 | 10.7 | 63 | 5.7 | QP | L1 | GND |
| 0.287719 | 48.80 | 10.8 | 61 | 11.8 | QP | L1 | GND |
| MEASUREMENT RESULT: "IMC-BT4-V02_fin2" | | | | | | | |
| 2014-6-27 9:09 | | | | | | | |
| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
| 0.150000 | 43.50 | 10.5 | 56 | 12.5 | AV | L1 | GND |
| 0.215783 | 46.10 | 10.7 | 53 | 6.9 | AV | L1 | GND |
| 0.287719 | 39.60 | 10.8 | 51 | 11.0 | AV | L1 | GND |
| MEASUREMENT RESULT: "IMC-BT4-V01_fin" | | | | | | | |
| 2014-6-27 9:06 | | | | | | | |
| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
| 0.150000 | 57.00 | 10.5 | 66 | 9.0 | QP | N | GND |
| 0.215783 | 57.30 | 10.7 | 63 | 5.7 | QP | N | GND |
| 0.287145 | 48.90 | 10.8 | 61 | 11.7 | QP | N | GND |
| MEASUREMENT RESULT: "IMC-BT4-V01_fin2" | | | | | | | |
| 2014-6-27 9:06 | | | | | | | |
| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
| 0.215783 | 45.00 | 10.7 | 53 | 8.0 | AV | N | GND |
| 0.359158 | 37.20 | 10.9 | 49 | 11.5 | AV | N | GND |
| 0.503420 | 33.60 | 11.0 | 46 | 12.4 | AV | N | GND |

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

The spectral diagrams are attached as below.

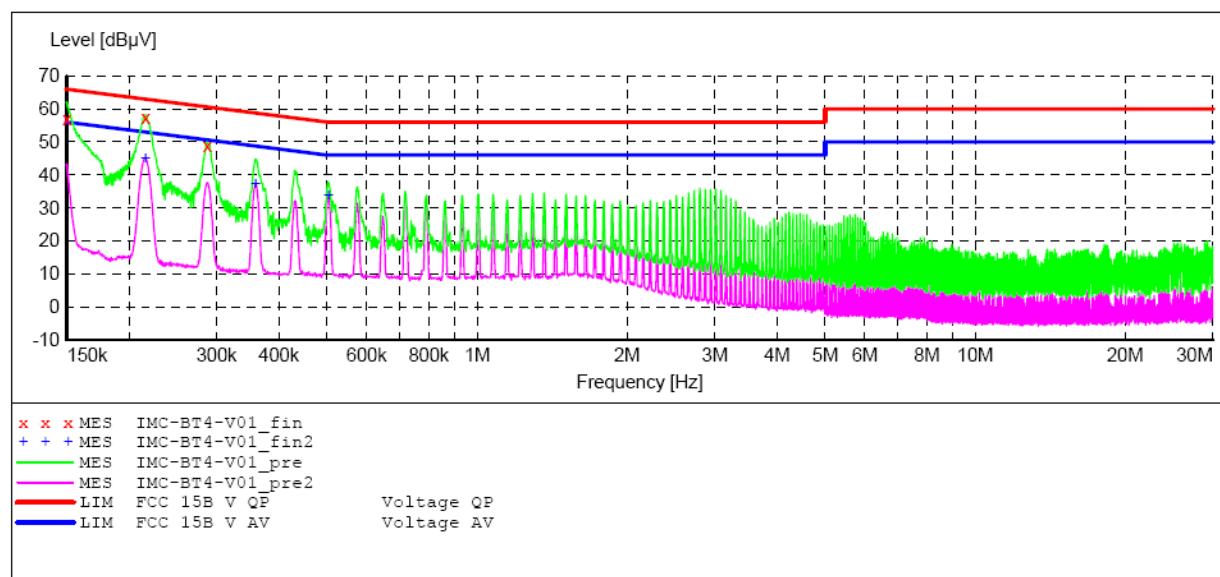
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: 4"3G TABLET M/N:ICE
 Manufacturer: IMC
 Operating Condition: BT4.0/Charging
 Test Site: 1#Shielding Room
 Operator: ALEN
 Test Specification: N 120V/60Hz
 Comment: Report No:ATE20141088
 Start of Test: 2014-6-27 / 9:05:01

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 LISN(ESH3-Z5)
 Average

**MEASUREMENT RESULT: "IMC-BT4-V01_fin"**

2014-6-27 9:06

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.150000 | 57.00 | 10.5 | 66 | 9.0 | QP | N | GND |
| 0.215783 | 57.30 | 10.7 | 63 | 5.7 | QP | N | GND |
| 0.287145 | 48.90 | 10.8 | 61 | 11.7 | QP | N | GND |

MEASUREMENT RESULT: "IMC-BT4-V01_fin2"

2014-6-27 9:06

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.215783 | 45.00 | 10.7 | 53 | 8.0 | AV | N | GND |
| 0.359158 | 37.20 | 10.9 | 49 | 11.5 | AV | N | GND |
| 0.503420 | 33.60 | 11.0 | 46 | 12.4 | AV | N | GND |

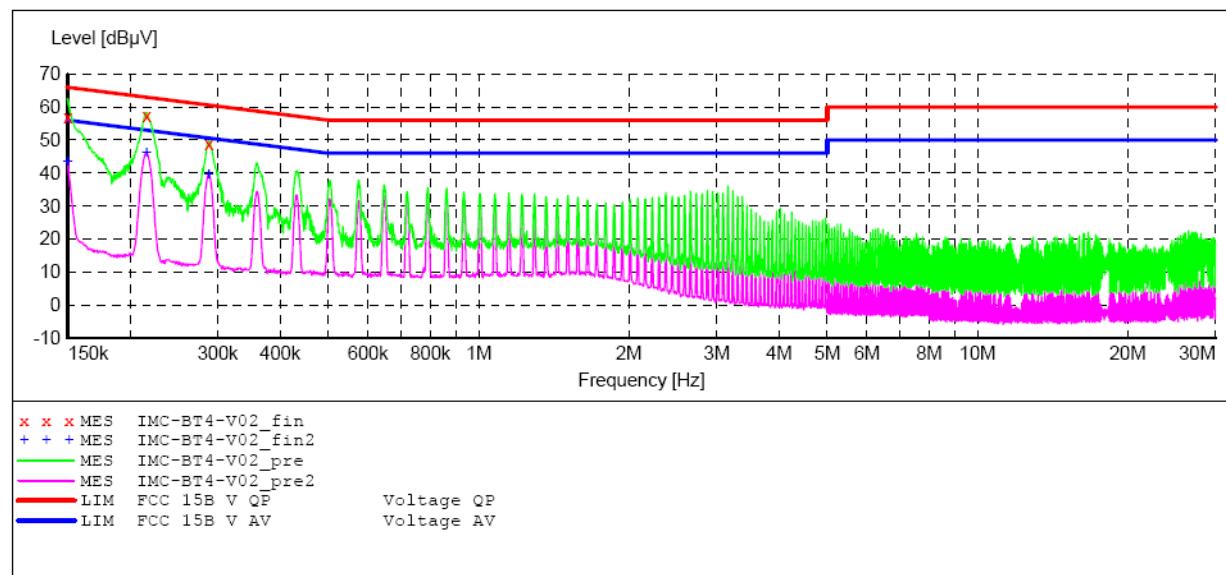
ACCURATE TECHNOLOGY CO., LTD

CONDUCTED EMISSION STANDARD FCC PART 15B

EUT: 4"3G TABLET M/N:ICE
 Manufacturer: IMC
 Operating Condition: BT4.0/Charging
 Test Site: 1#Shielding Room
 Operator: Alen
 Test Specification: L 120V/60Hz
 Comment: Report No:ATE20141088
 Start of Test: 2014-6-27 / 9:07:21

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 LISN(ESH3-Z5)
 Average



MEASUREMENT RESULT: "IMC-BT4-V02_fin"

2014-6-27 9:09

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.150000 | 57.10 | 10.5 | 66 | 8.9 | QP | L1 | GND |
| 0.215783 | 57.30 | 10.7 | 63 | 5.7 | QP | L1 | GND |
| 0.287719 | 48.80 | 10.8 | 61 | 11.8 | QP | L1 | GND |

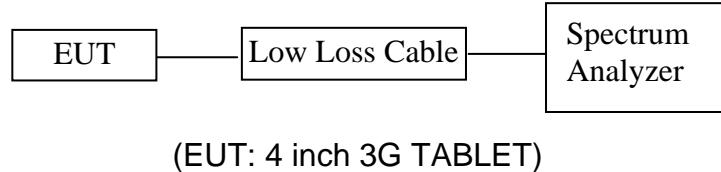
MEASUREMENT RESULT: "IMC-BT4-V02_fin2"

2014-6-27 9:09

| Frequency MHz | Level dB μ V | Transd dB | Limit dB μ V | Margin dB | Detector | Line | PE |
|------------------|---------------------|--------------|---------------------|--------------|----------|------|-----|
| 0.150000 | 43.50 | 10.5 | 56 | 12.5 | AV | L1 | GND |
| 0.215783 | 46.10 | 10.7 | 53 | 6.9 | AV | L1 | GND |
| 0.287719 | 39.60 | 10.8 | 51 | 11.0 | AV | L1 | GND |

6. 6DB BANDWIDTH MEASUREMENT

6.1. Block Diagram of Test Setup



6.2. 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.

6.3. 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.

6.4. Operating Condition of EUT

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

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 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

6.5. Test Procedure

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

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

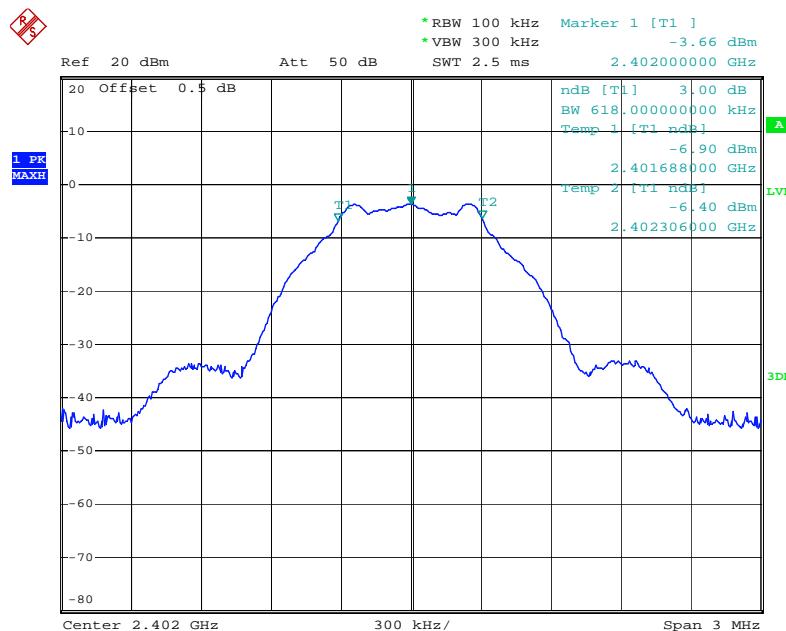
6.5.3. The 6dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6dB.

6.6. Test Result

| Channel | Frequency (MHz) | 6 dB Bandwith (MHz) | Minimum Limit(MHz) | PASS/FAIL |
|---------|-----------------|---------------------|--------------------|-----------|
| 0 | 2402 | 0.618 | 0.5 | PASS |
| 19 | 2440 | 0.618 | 0.5 | PASS |
| 39 | 2480 | 0.618 | 0.5 | PASS |

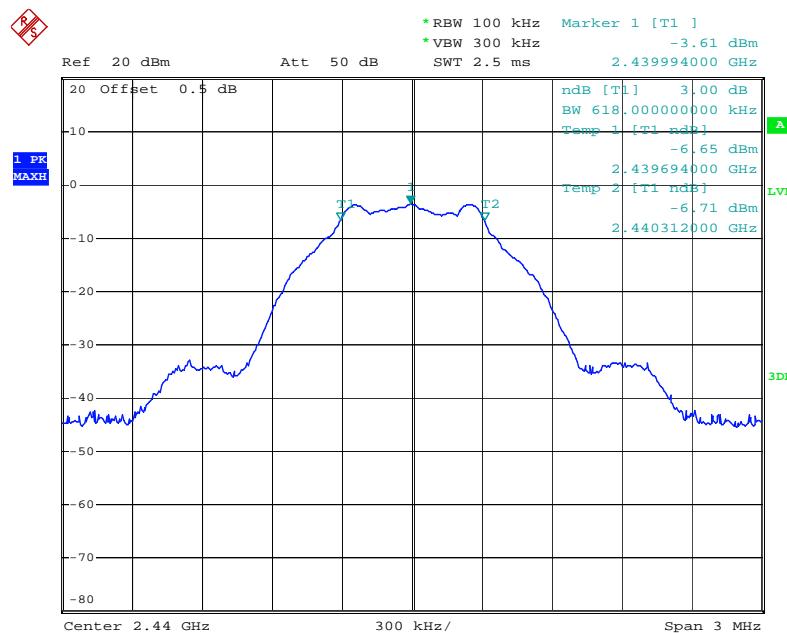
The spectrum analyzer plots are attached as below.

channel 0



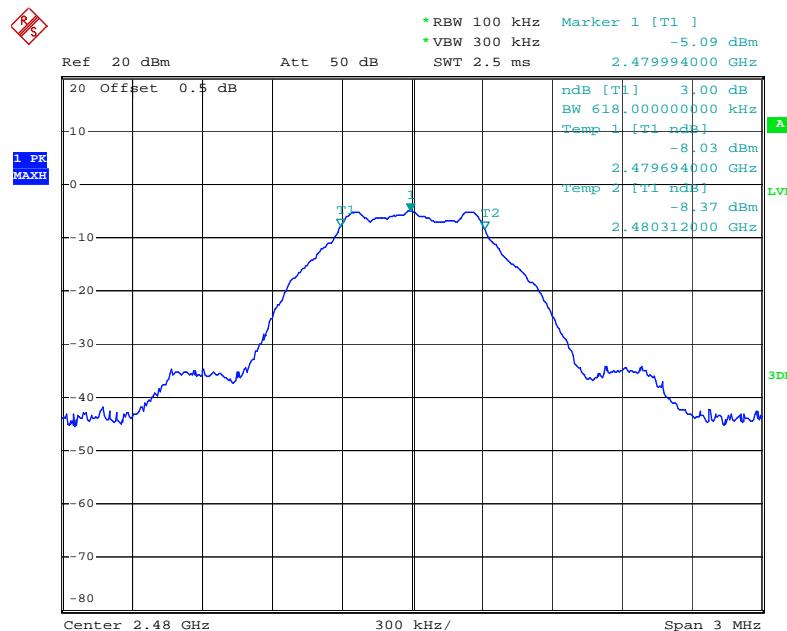
Date: 30.JUN.2014 14:20:31

channel 19



Date: 30.JUN.2014 14:20:01

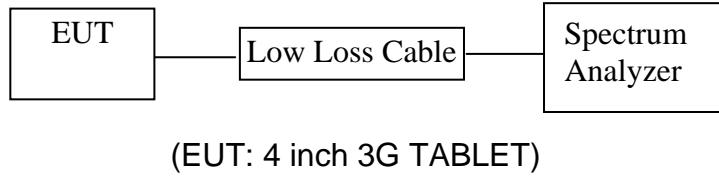
channel 39



Date: 30.JUN.2014 14:19:28

7. MAXIMUM PEAK OUTPUT POWER

7.1. Block Diagram of Test Setup



(EUT: 4 inch 3G TABLET)

7.2. 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.

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 6.1.

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 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

7.5. Test Procedure

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

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

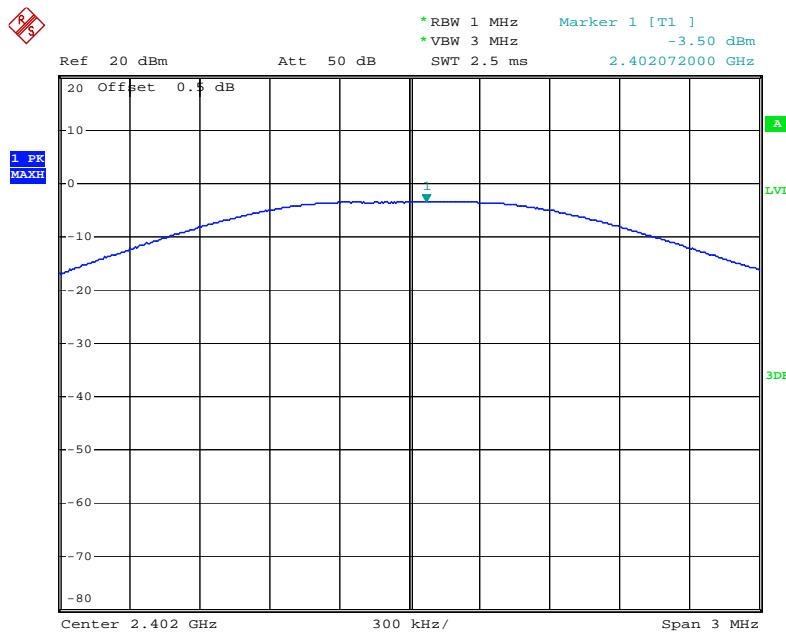
- a) Set the RBW \geq DTS bandwidth.
- b) Set VBW $\geq 3 \times$ RBW.
- c) Set span $\geq 3 \times$ RBW
- d) Sweep time = auto couple.
- e) Detector = peak.
- f) Trace mode = max hold.
- g) Allow trace to fully stabilize.
- h) Use peak marker function to determine the peak amplitude level.

7.6. Test Result

| Channel | Frequency (MHz) | Peak Power Output (dBm) | Peak Power Limit (dBm) | Pass / Fail |
|---------|-----------------|-------------------------|------------------------|-------------|
| 0 | 2402 | -3.50 | 30 | PASS |
| 19 | 2440 | -2.09 | 30 | PASS |
| 39 | 2480 | -3.92 | 30 | PASS |

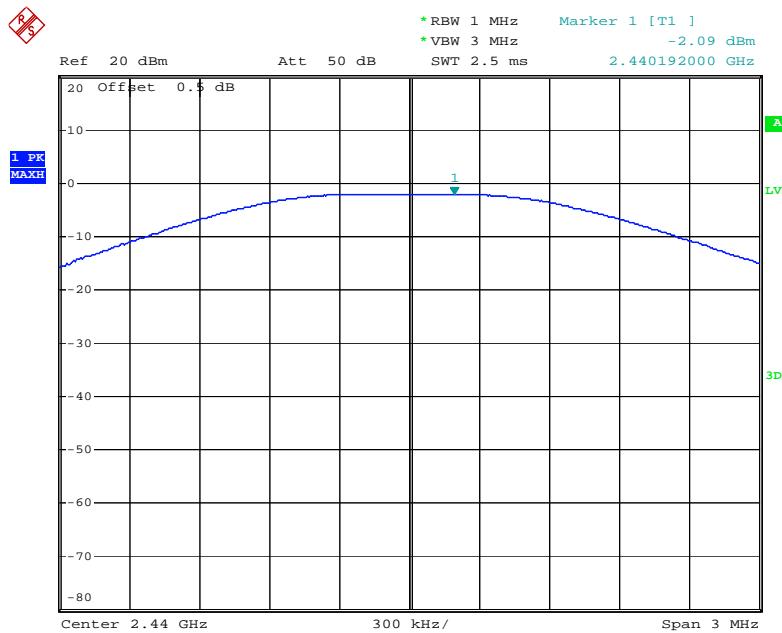
The spectrum analyzer plots are attached as below.

channel 0



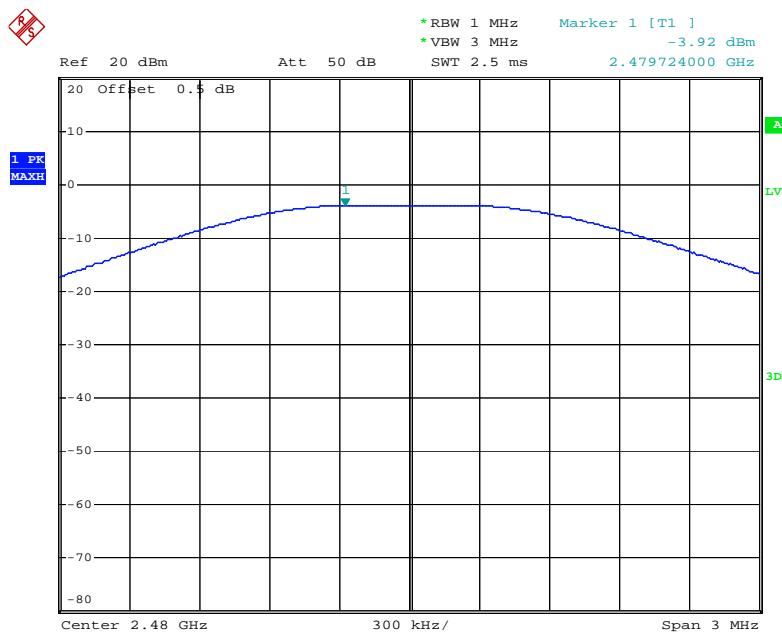
Date: 30.JUN.2014 14:16:39

channel 19



Date: 30.JUN.2014 14:17:33

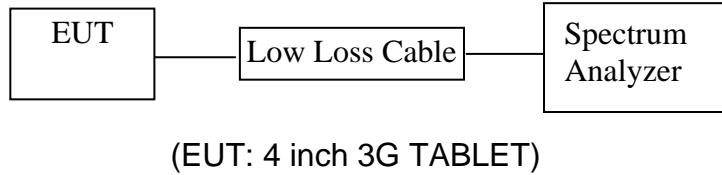
channel 39



Date: 30.JUN.2014 14:18:07

8. POWER SPECTRAL DENSITY MEASUREMENT

8.1. Block Diagram of Test Setup



8.2. 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.

8.3. 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.

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 2402-2480. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

8.5. Test Procedure

8.5.1. 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.

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

8.5.3. 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 to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
4. Set the VBW $\geq 3 \times \text{RBW}$.
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.

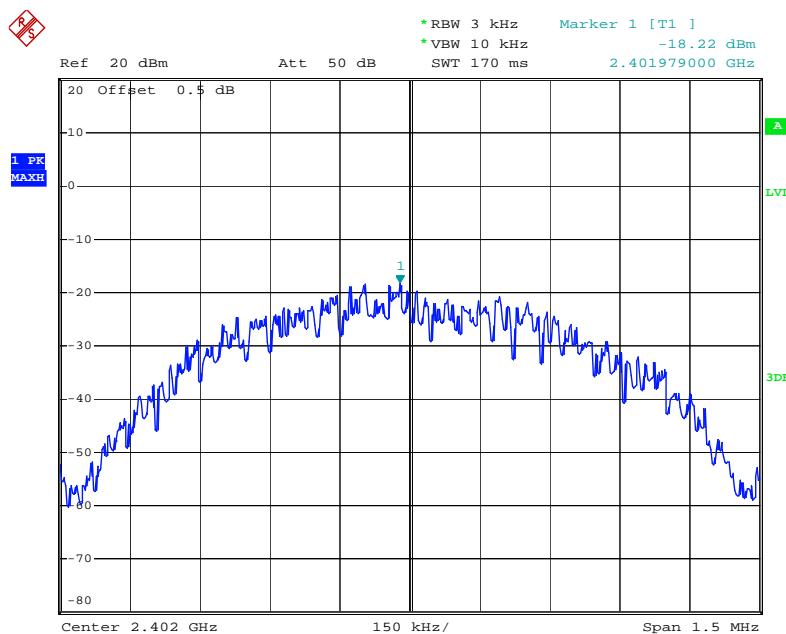
8.5.4. Measurement the maximum power spectral density.

8.6. Test Result

| CHANNEL NUMBER | FREQUENCY (MHz) | PSD (dBm/3KHz) | LIMIT (dBm/3KHz) | PASS/FAIL |
|----------------|-----------------|----------------|------------------|-----------|
| 0 | 2402 | -18.22 | 8 | PASS |
| 19 | 2440 | -18.26 | 8 | PASS |
| 39 | 2480 | -19.65 | 8 | PASS |

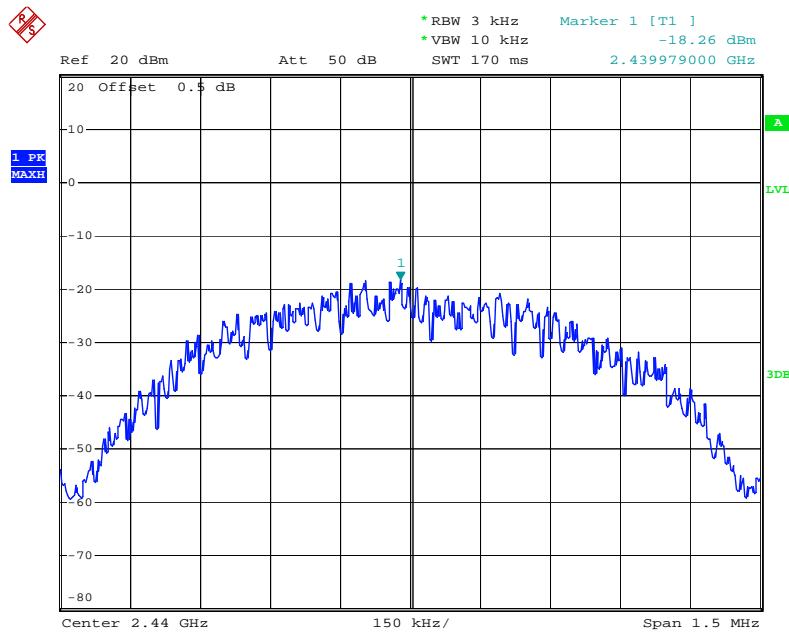
The spectrum analyzer plots are attached as below.

channel 0



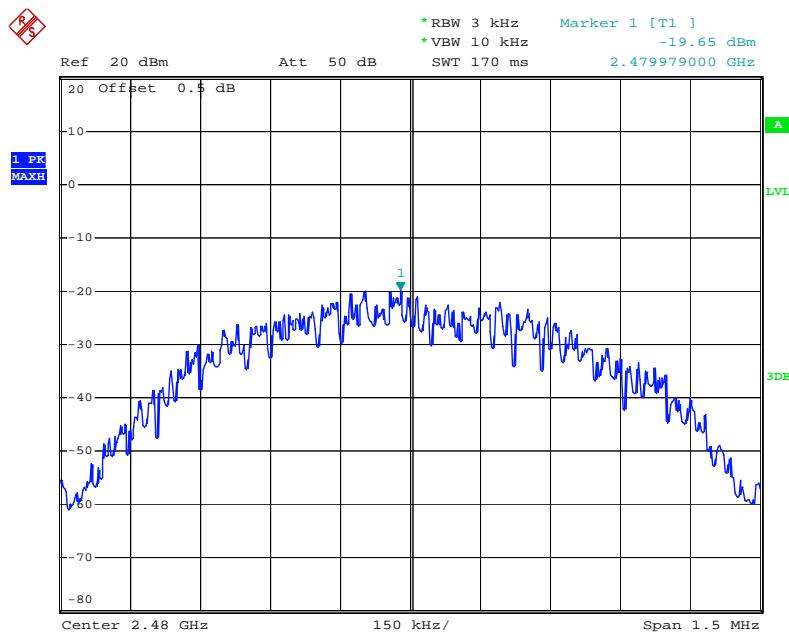
Date: 30.JUN.2014 14:21:12

channel 19



Date: 30.JUN.2014 14:21:40

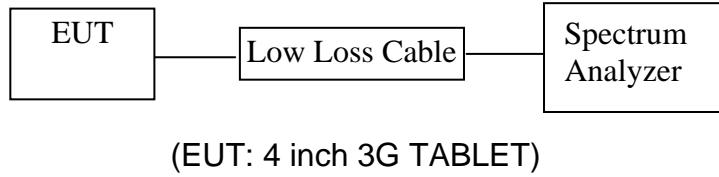
channel 39



Date: 30.JUN.2014 14:22:00

9. BAND EDGE COMPLIANCE TEST

9.1. Block Diagram of Test Setup



9.2. 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).

9.3. 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.

9.4. Operating Condition of EUT

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

9.4.2. Turn on the power of all equipment.

9.4.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2480MHz TX frequency to transmit.

9.5. Test Procedure

Conducted Band Edge:

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

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

Radiate Band Edge:

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

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

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

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

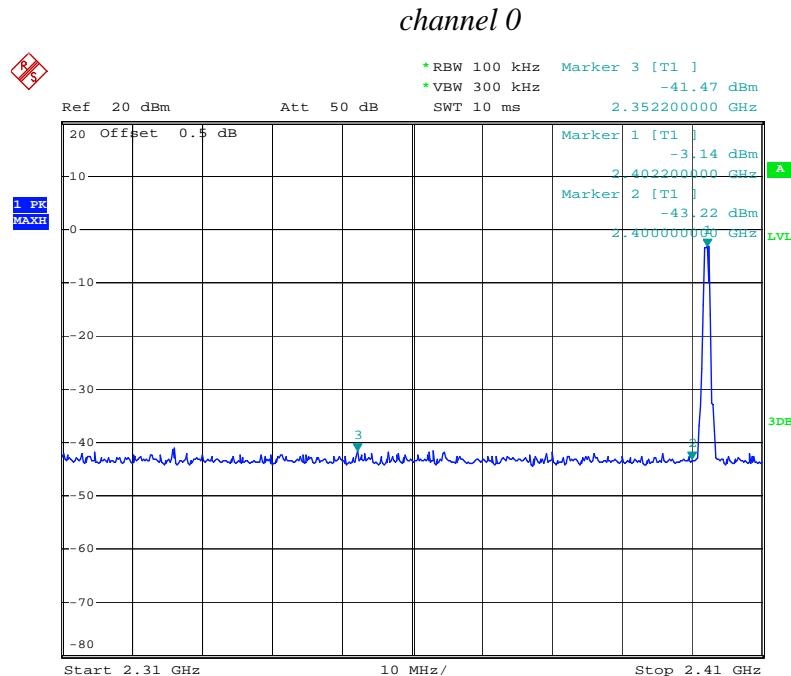
RBW=1MHz, VBW=3MHz

9.5.7. The band edges was measured and recorded.

9.6. Test Result

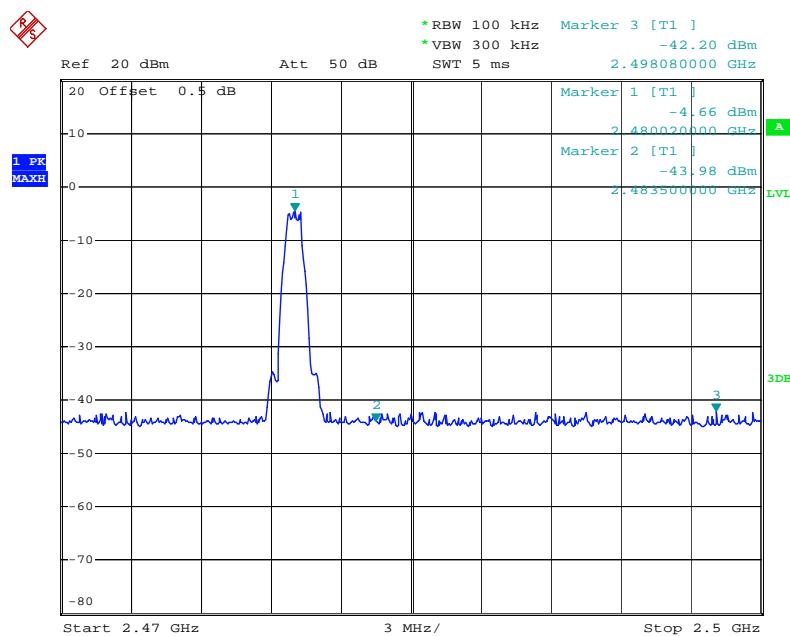
Pass

| Channel | Frequency | Delta peak to band emission | Limit(dBc) |
|---------|------------|-----------------------------|------------|
| 0 | 2352.20MHz | 38.33 | 20 |
| 39 | 2498.08MHz | 37.54 | 20 |



Date: 30.JUN.2014 14:25:38

channel 39



Date: 30.JUN.2014 14:23:08

Radiated Band Edge Result



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Job No.: alen #4581

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/53/57

EUT: 4" 3G Tablet

Engineer Signature:

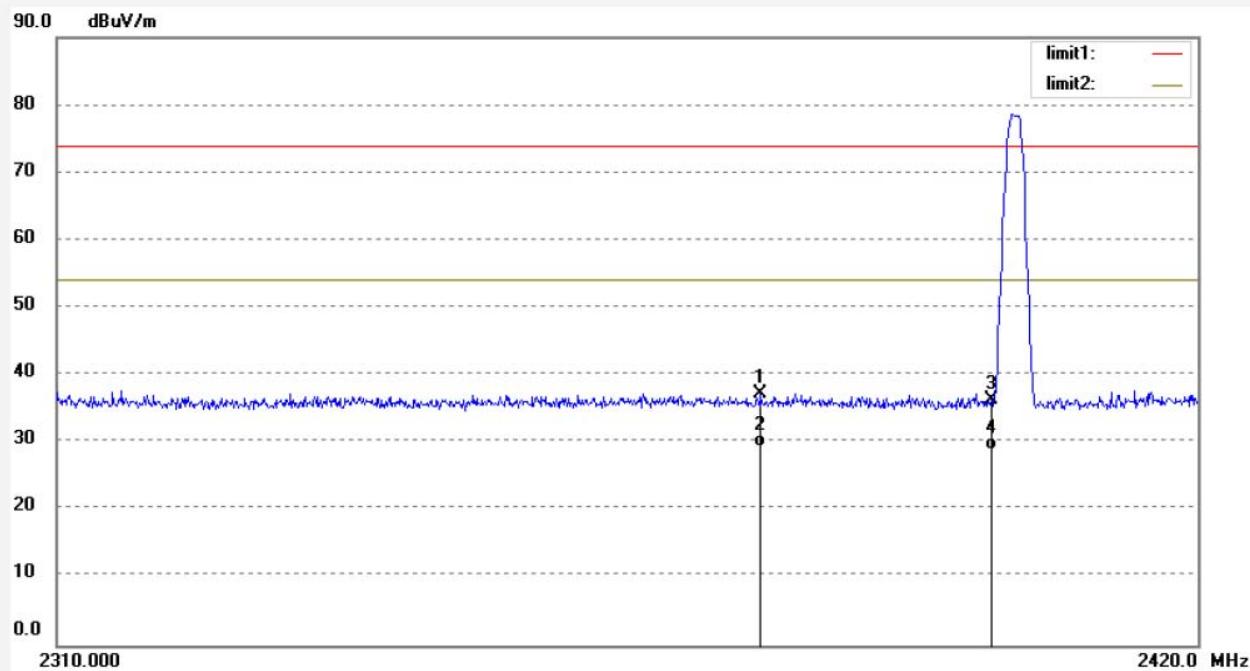
Mode: TX 2402MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2377.320 | 44.08 | -6.82 | 37.26 | 74.00 | -36.74 | peak | | | |
| 2 | 2377.320 | 36.12 | -6.82 | 29.30 | 54.00 | -24.70 | AVG | | | |
| 3 | 2399.760 | 43.05 | -6.76 | 36.29 | 74.00 | -37.71 | peak | | | |
| 4 | 2399.760 | 35.78 | -6.76 | 29.02 | 54.00 | -24.98 | AVG | | | |

Job No.: alen #4580

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/52/30

EUT: 4" 3G Tablet

Engineer Signature:

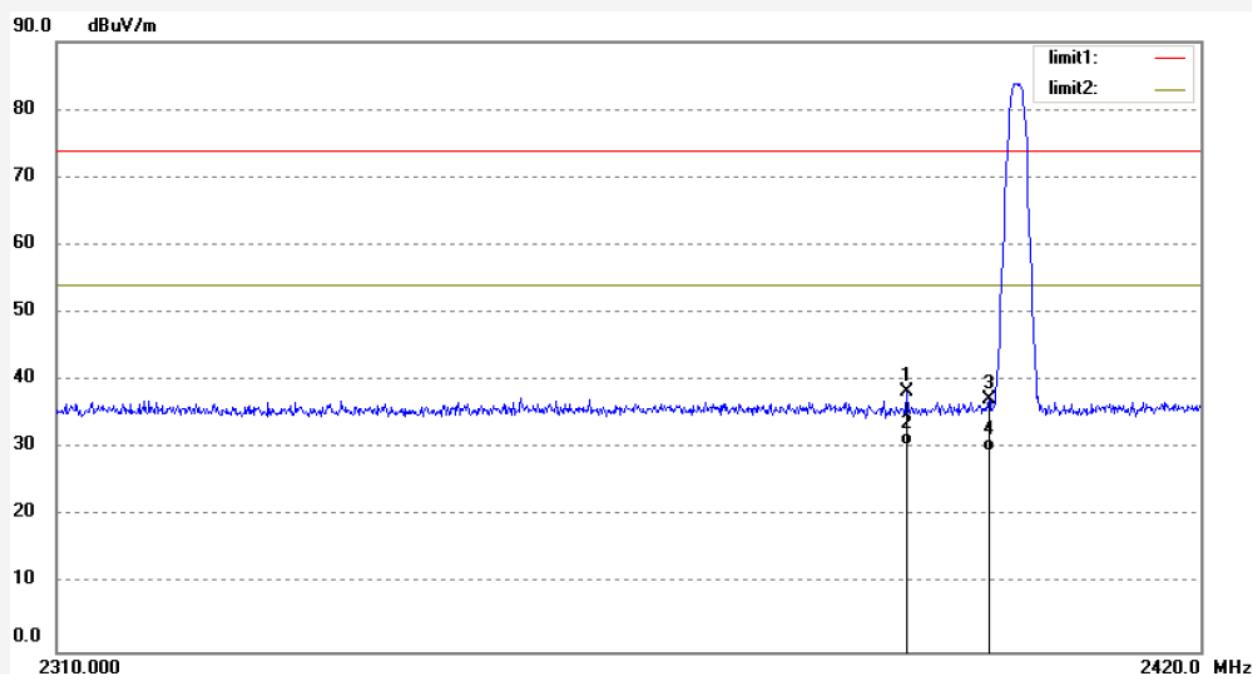
Mode: TX 2402MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2391.290 | 45.15 | -6.77 | 38.38 | 74.00 | -35.62 | peak | | | |
| 2 | 2391.290 | 37.23 | -6.77 | 30.46 | 54.00 | -23.54 | AVG | | | |
| 3 | 2399.320 | 43.97 | -6.76 | 37.21 | 74.00 | -36.79 | peak | | | |
| 4 | 2399.320 | 36.35 | -6.76 | 29.59 | 54.00 | -24.41 | AVG | | | |

Site: 1# Chamber

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Job No.: alen #4578

Polarization: Horizontal

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/50/06

EUT: 4" 3G Tablet

Engineer Signature:

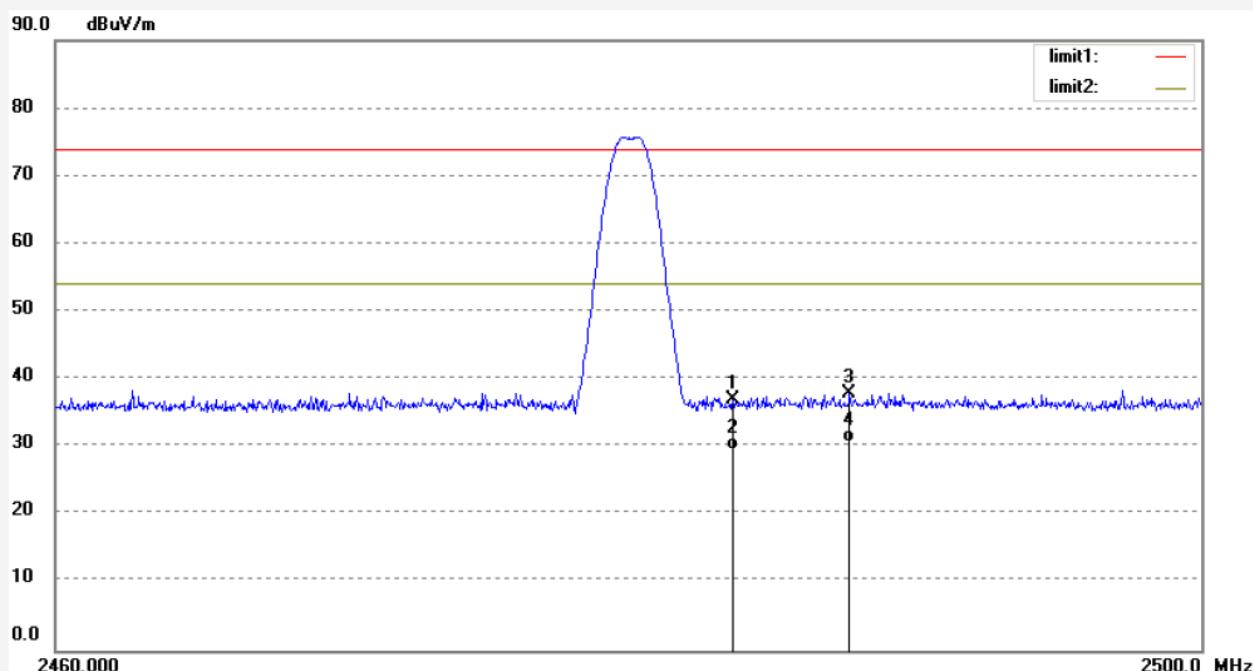
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.600 | 43.54 | -6.54 | 37.00 | 74.00 | -37.00 | peak | | | |
| 2 | 2483.600 | 36.12 | -6.54 | 29.58 | 54.00 | -24.42 | AVG | | | |
| 3 | 2487.680 | 44.47 | -6.52 | 37.95 | 74.00 | -36.05 | peak | | | |
| 4 | 2487.680 | 37.23 | -6.52 | 30.71 | 54.00 | -23.29 | AVG | | | |

Job No.: alen #4579

Polarization: Vertical

Standard: FCC PK

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/51/19

EUT: 4" 3G Tablet

Engineer Signature:

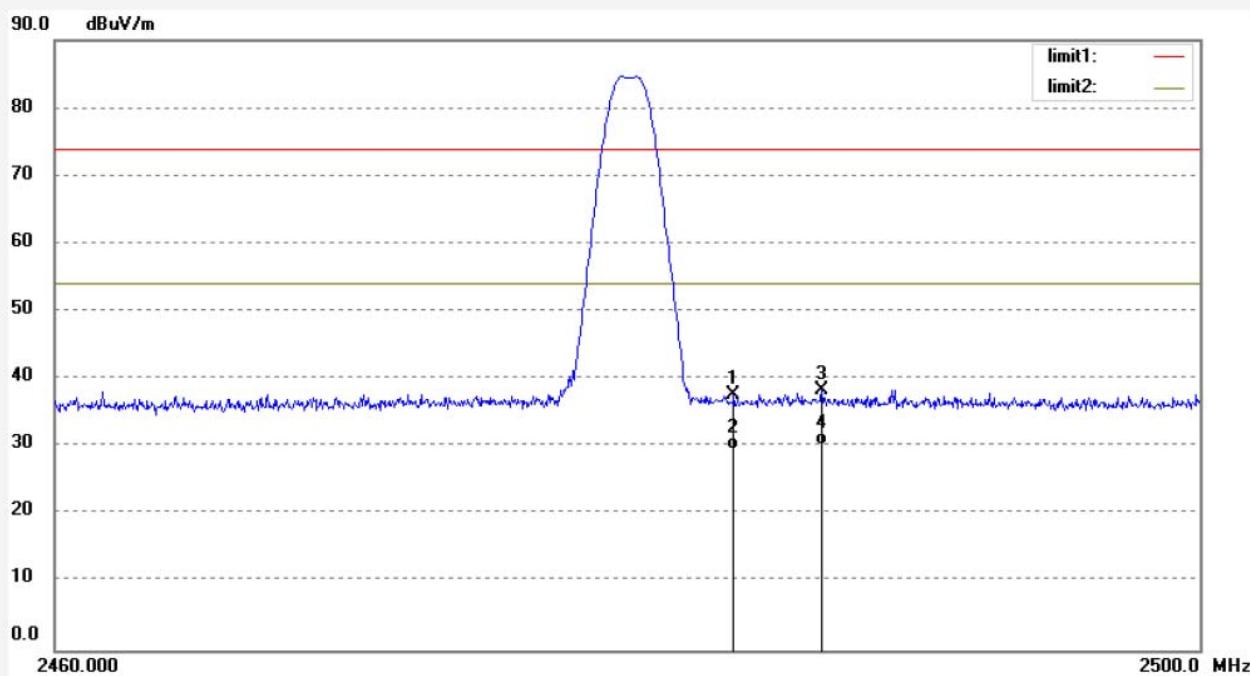
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2483.680 | 44.15 | -6.54 | 37.61 | 74.00 | -36.39 | peak | | | |
| 2 | 2483.680 | 36.23 | -6.54 | 29.69 | 54.00 | -24.31 | AVG | | | |
| 3 | 2486.760 | 44.80 | -6.53 | 38.27 | 74.00 | -35.73 | peak | | | |
| 4 | 2486.760 | 36.86 | -6.53 | 30.33 | 54.00 | -23.67 | AVG | | | |

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:

Result = Reading + Corrected Factor

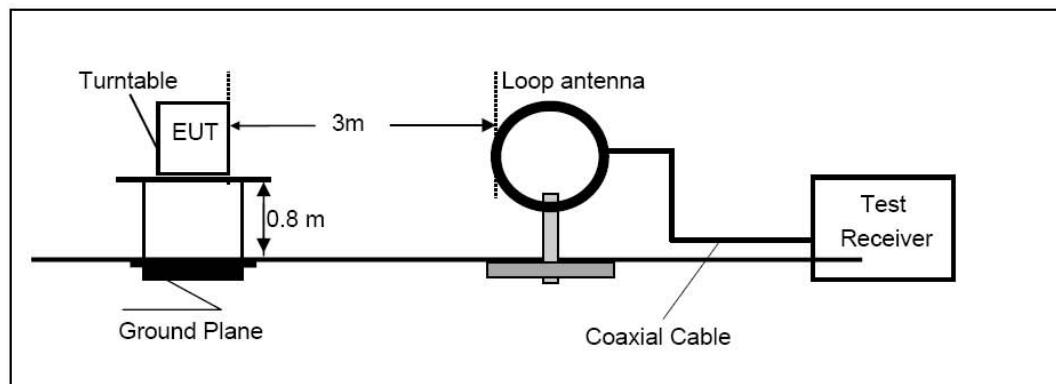
3. Display the measurement of peak values.

10. RADIATED SPURIOUS EMISSION TEST

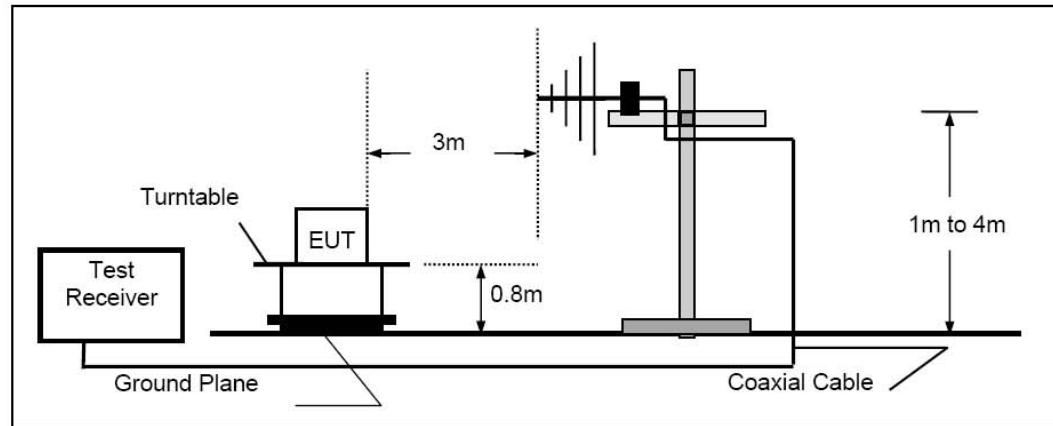
10.1. Block Diagram of Test Setup

Radiated Emission Test Set-Up

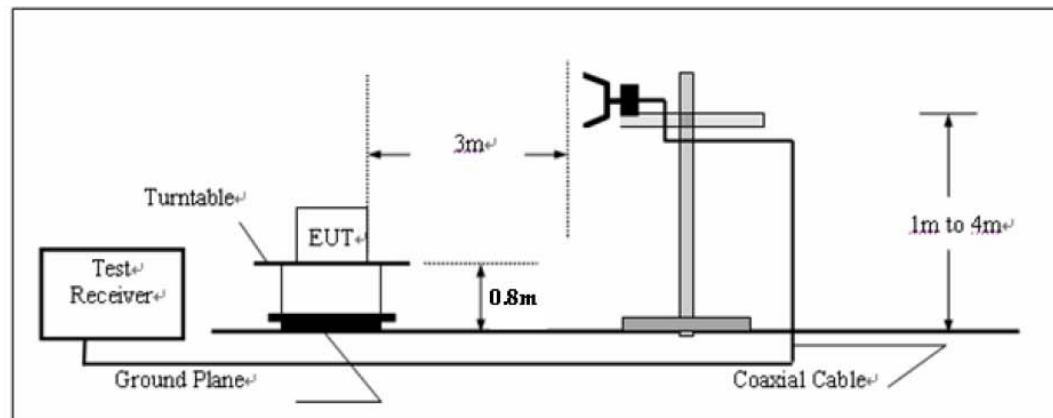
Frequency range 9KHz – 30MHz



Frequency range 30MHz – 1000MHz



Frequency range above 1GHz-25GHz



10.2.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).

10.3.Restricted bands of operation

10.3.1.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.

10.4. Configuration of EUT on Measurement

The equipment is 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.

10.5. Operating Condition of EUT

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

10.5.2. Turn on the power of all equipment.

10.5.3. Let the EUT work in TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

10.6. 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 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

A Quasi-peak measurement was then made for that frequency point for below 1GHz test. PK and AV for above 1GHz emission test.

1. The resolution bandwidth and video bandwidth of test receiver/spectrum analyzer is 120kHz for Quasi-peak detection at frequency below 1GHz.
2. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth is 3MHz for Peak detection at frequency above 1GHz.
3. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and video bandwidth for average detection(AV) at below at frequency above 1GHz.

During the radiated emission test, the spectrum analyzer was set with the following configurations:

| Frequency Band (MHz) | Function | Resolution Bandwidth | Video Bandwidth |
|----------------------|----------|----------------------|-----------------|
| 30 to 1000 | Peak | 100 kHz | 100 kHz |
| Above 1000 | Peak | 1 MHz | 1 MHz |
| | Average | 1 MHz | 10 Hz |

10.7. The Field Strength of Radiation Emission Measurement Results

PASS.

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

2. The EUT is tested radiation emission at Low, Middle, High channel in three axes. The worst emissions are reported in all channels. The fundamental radiated emissions were reduced by Band Reject Filter in the attached plots.

3. The radiation emissions from 18-25GHz are not reported, because the test values lower than the limits of 20dB.

Below 1GHz



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Job No.: alen #4610

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/28/

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

Time: 9/03/26

EUT: 4" 3G Tablet

Engineer Signature:

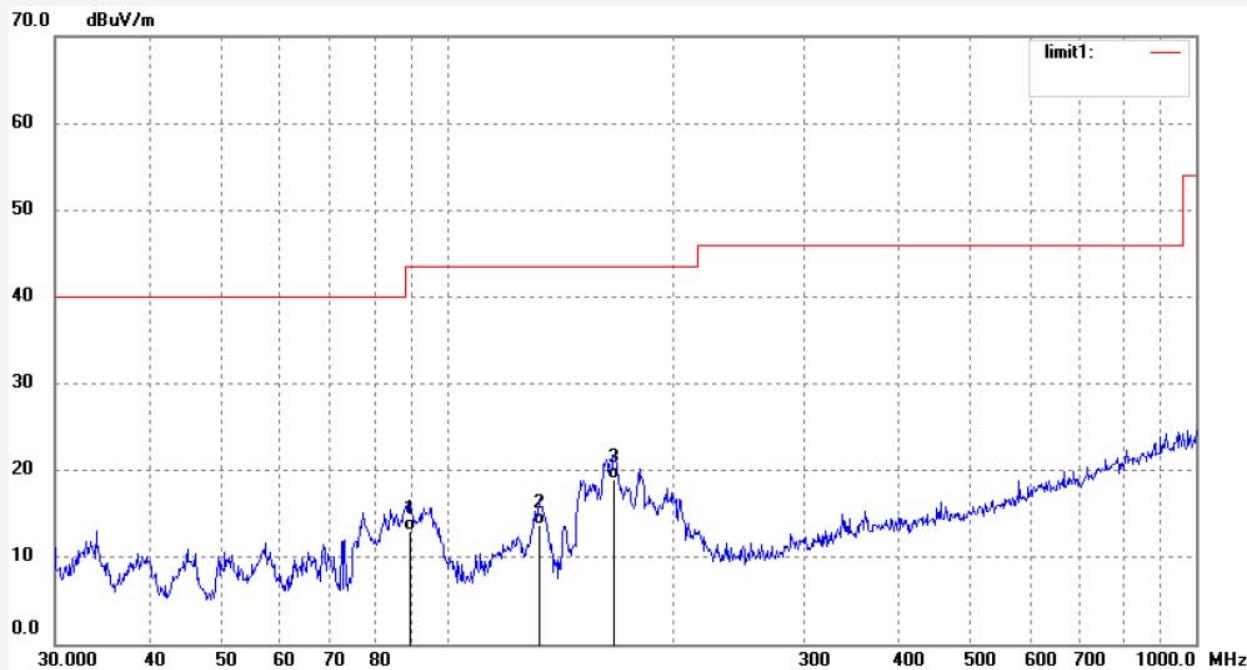
Mode: TX 2402MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 89.2762 | 34.74 | -21.67 | 13.07 | 43.50 | -30.43 | QP | | | |
| 2 | 132.6850 | 36.87 | -23.15 | 13.72 | 43.50 | -29.78 | QP | | | |
| 3 | 167.2366 | 41.05 | -22.09 | 18.96 | 43.50 | -24.54 | QP | | | |

Job No.: alen #4611

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/28/

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

Time: 9/04/42

EUT: 4" 3G Tablet

Engineer Signature:

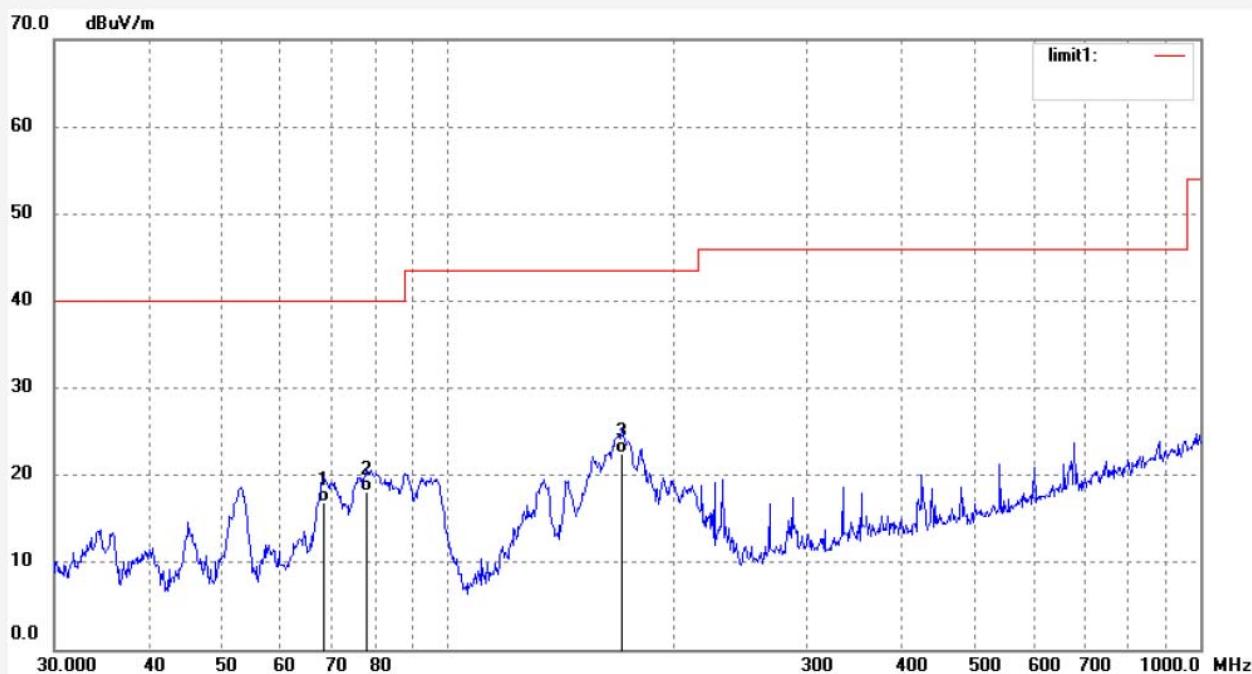
Mode: TX 2402MHz

Distance: 3m

Model: ICE

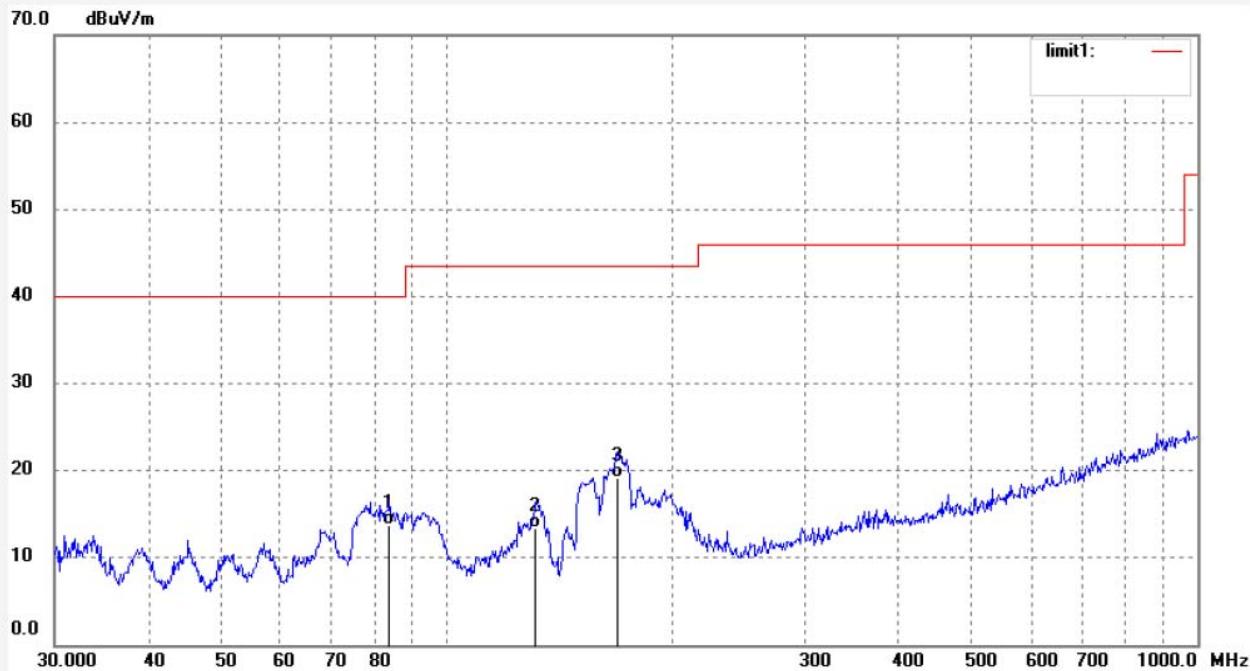
Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 68.3907 | 38.23 | -21.30 | 16.93 | 40.00 | -23.07 | QP | | | |
| 2 | 78.1389 | 39.56 | -21.47 | 18.09 | 40.00 | -21.91 | QP | | | |
| 3 | 170.1947 | 44.36 | -21.81 | 22.55 | 43.50 | -20.95 | QP | | | |

| | |
|-----------------------------------|----------------------------|
| Job No.: alen #4609 | Polarization: Horizontal |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test | Date: 14/06/28/ |
| Temp.(C)/Hum.(%) 25 C / 55 % | Time: 9/02/35 |
| EUT: 4" 3G Tablet | Engineer Signature: |
| Mode: TX 2440MHz | Distance: 3m |
| Model: ICE | |
| Manufacturer: IMC | |
| Note: Report No:ATE20141088 | |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 83.8156 | 35.21 | -21.51 | 13.70 | 40.00 | -26.30 | QP | | | |
| 2 | 131.2965 | 36.49 | -23.09 | 13.40 | 43.50 | -30.10 | QP | | | |
| 3 | 168.4138 | 41.18 | -21.96 | 19.22 | 43.50 | -24.28 | QP | | | |

Job No.: alen #4608

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/28/

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

Time: 9/00/05

EUT: 4" 3G Tablet

Engineer Signature:

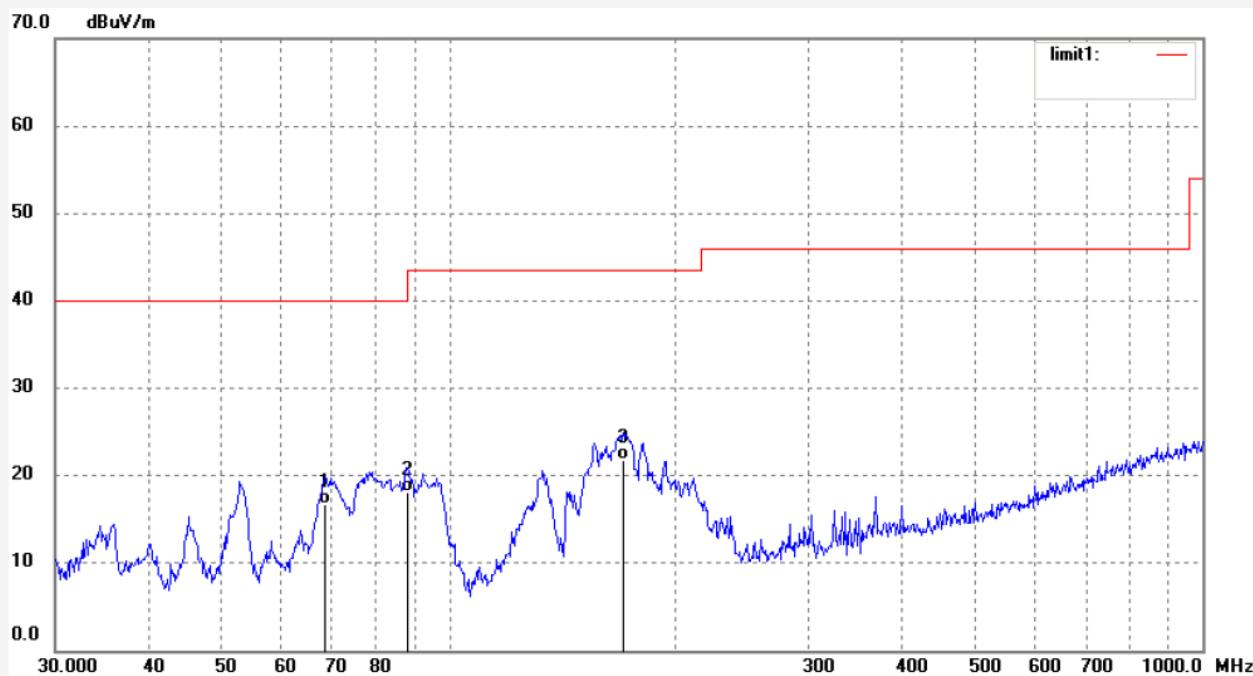
Mode: TX 2440MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 68.3906 | 38.10 | -21.30 | 16.80 | 40.00 | -23.20 | QP | | | |
| 2 | 88.0327 | 39.71 | -21.64 | 18.07 | 43.50 | -25.43 | QP | | | |
| 3 | 170.1947 | 43.68 | -21.81 | 21.87 | 43.50 | -21.63 | QP | | | |

Job No.: alen #4606

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/28/

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

Time: 8/57/35

EUT: 4" 3G Tablet

Engineer Signature:

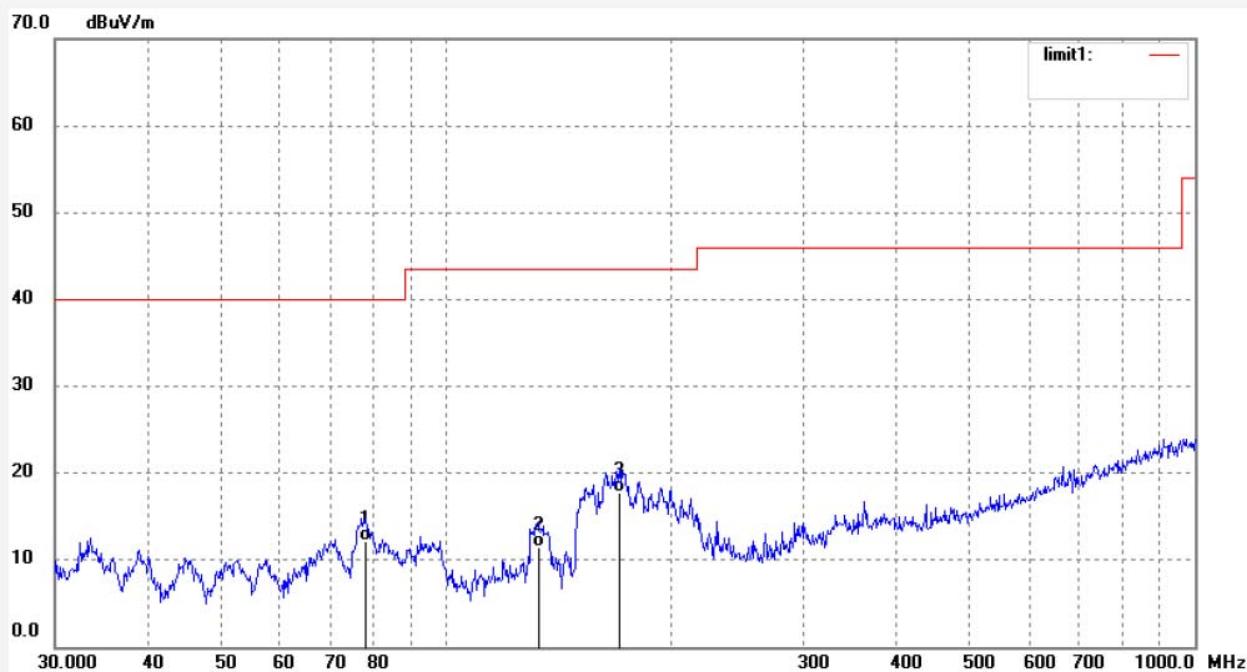
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 78.1389 | 33.56 | -21.47 | 12.09 | 40.00 | -27.91 | QP | | | |
| 2 | 132.6850 | 34.56 | -23.15 | 11.41 | 43.50 | -32.09 | QP | | | |
| 3 | 170.1947 | 39.54 | -21.81 | 17.73 | 43.50 | -25.77 | QP | | | |

Job No.: alen #4607

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/28/

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

Time: 8/58/25

EUT: 4" 3G Tablet

Engineer Signature:

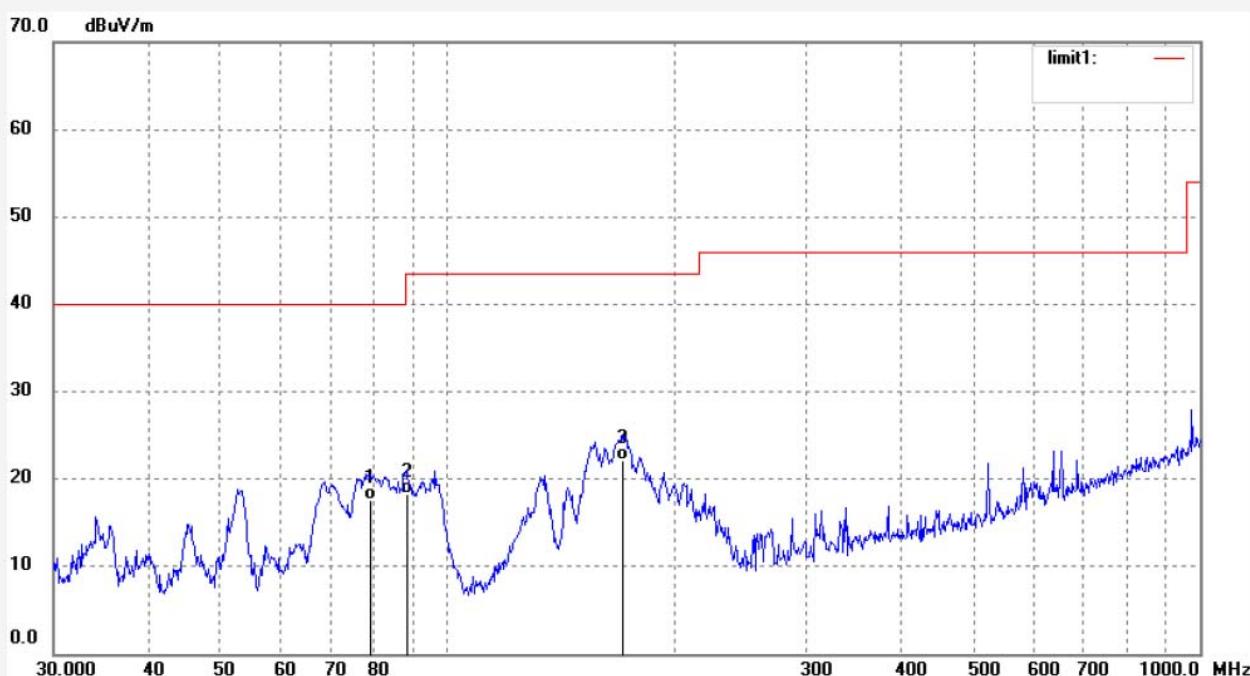
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 78.9651 | 38.96 | -21.43 | 17.53 | 40.00 | -22.47 | QP | | | |
| 2 | 88.3421 | 39.86 | -21.65 | 18.21 | 43.50 | -25.29 | QP | | | |
| 3 | 170.7923 | 44.01 | -21.88 | 22.13 | 43.50 | -21.37 | QP | | | |

Above 1GHz



ACCURATE TECHNOLOGY CO., LTD.

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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: alen #4573

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/43/38

EUT: 4" 3G Tablet

Engineer Signature:

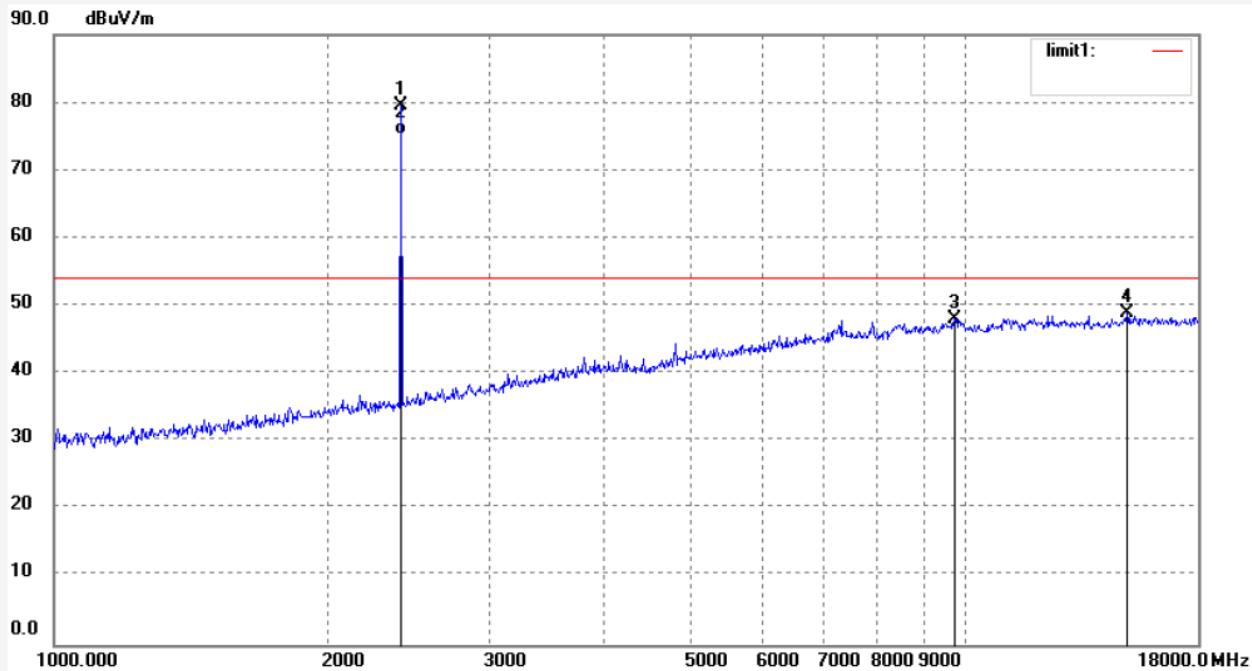
Mode: TX 2402MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2400.753 | 86.40 | -6.76 | 79.64 | 54.00 | 25.64 | peak | | | |
| 2 | 2400.753 | 82.01 | -6.76 | 75.25 | 54.00 | 21.25 | AVG | | | |
| 3 | 9725.221 | 43.11 | 5.03 | 48.14 | 54.00 | -5.86 | peak | | | |
| 4 | 15046.851 | 37.07 | 11.82 | 48.89 | 54.00 | -5.11 | peak | | | |

Job No.: alen #4572

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/42/14

EUT: 4" 3G Tablet

Engineer Signature:

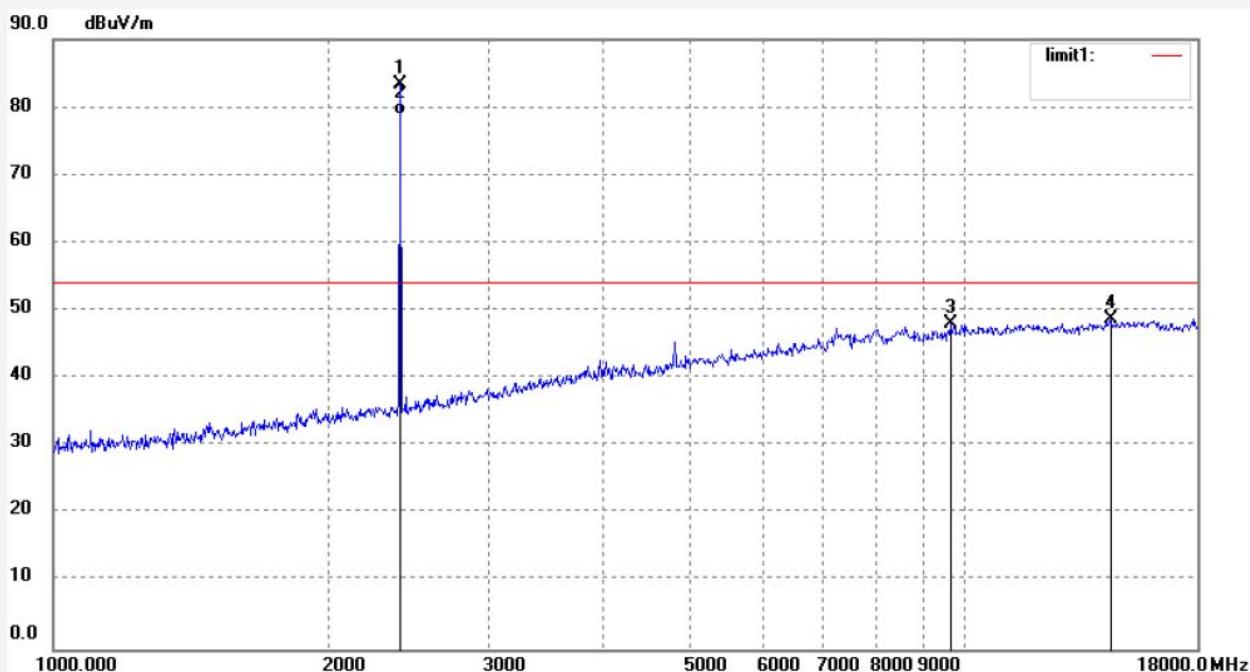
Mode: TX 2402MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2402.053 | 90.08 | -6.76 | 83.32 | | | peak | | | |
| 2 | 2402.053 | 85.63 | -6.76 | 78.87 | | | AVG | | | |
| 3 | 9641.257 | 43.04 | 4.95 | 47.99 | 54.00 | -6.01 | peak | | | |
| 4 | 14450.131 | 35.95 | 12.73 | 48.68 | 54.00 | -5.32 | peak | | | |

Job No.: alen #4574

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/45/04

EUT: 4" 3G Tablet

Engineer Signature:

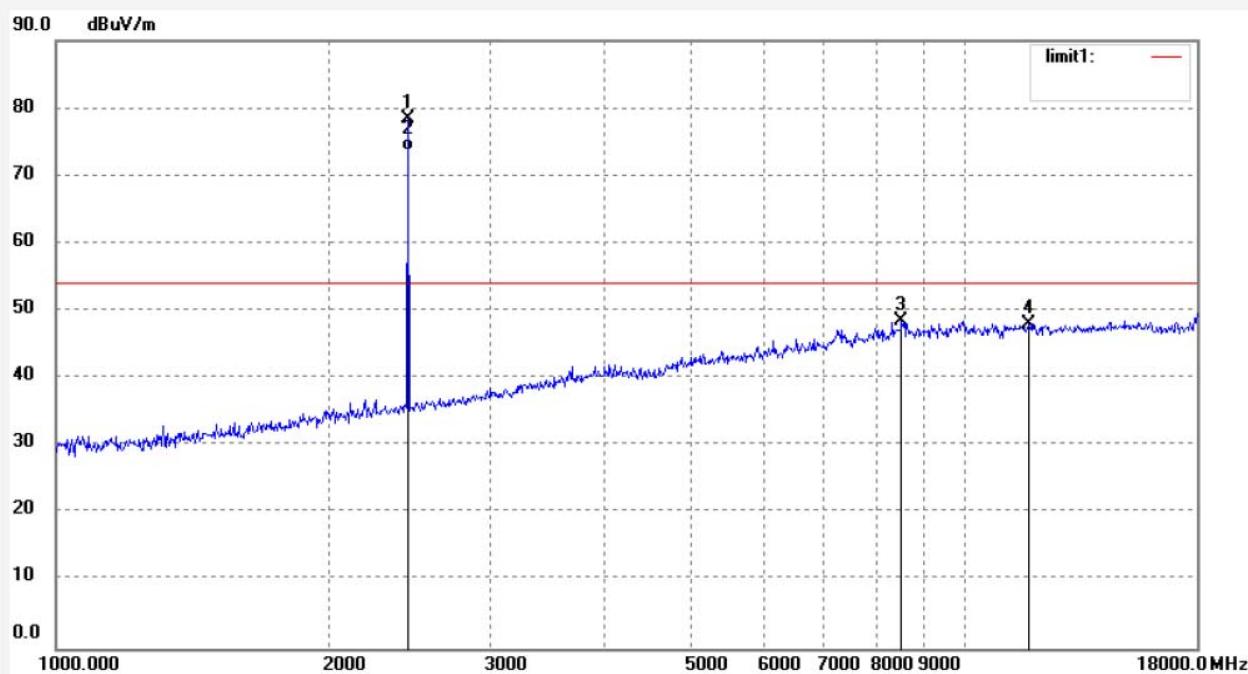
Mode: TX 2440MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2440.001 | 84.99 | -6.67 | 78.32 | | | peak | | | |
| 2 | 2440.001 | 80.32 | -6.67 | 73.65 | | | AVG | | | |
| 3 | 8514.456 | 45.46 | 3.01 | 48.47 | 54.00 | -5.53 | peak | | | |
| 4 | 11735.245 | 41.70 | 6.25 | 47.95 | 54.00 | -6.05 | peak | | | |

Job No.: alen #4575

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/46/34

EUT: 4" 3G Tablet

Engineer Signature:

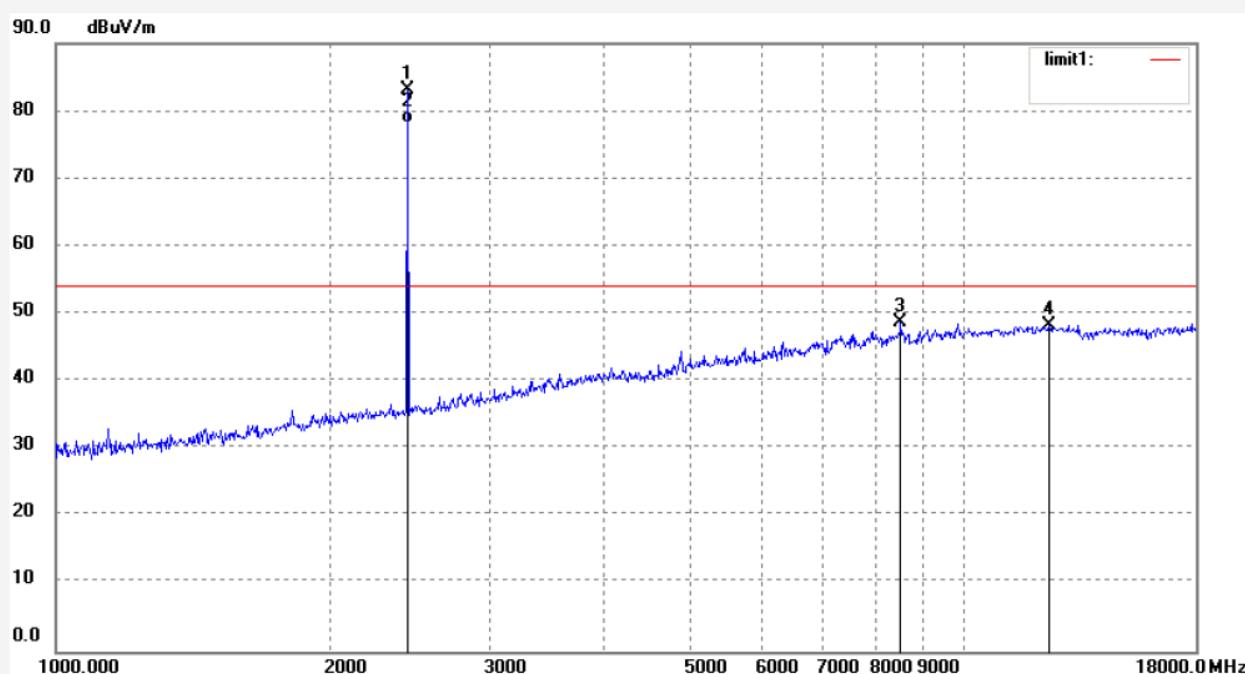
Mode: TX 2440MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2440.001 | 89.76 | -6.67 | 83.09 | | | peak | | | |
| 2 | 2440.001 | 84.89 | -6.67 | 78.22 | | | AVG | | | |
| 3 | 8514.456 | 45.65 | 3.01 | 48.66 | 54.00 | -5.34 | peak | | | |
| 4 | 12397.735 | 41.21 | 7.02 | 48.23 | 54.00 | -5.77 | peak | | | |

Site: 1# Chamber

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Fax:+86-0755-26503396

Job No.: alen #4577

Polarization: Horizontal

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/48/59

EUT: 4" 3G Tablet

Engineer Signature:

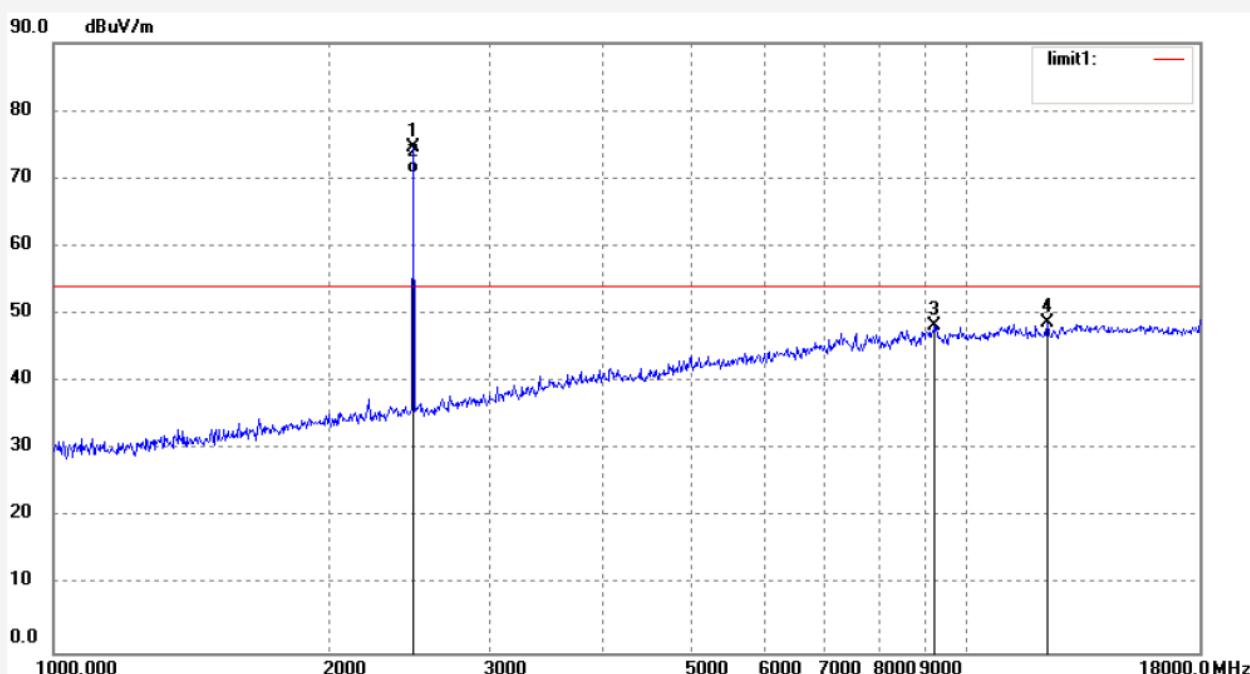
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2478.310 | 81.16 | -6.56 | 74.60 | 54.00 | 20.60 | peak | | | |
| 2 | 2478.310 | 77.35 | -6.56 | 70.79 | 54.00 | 16.79 | AVG | | | |
| 3 | 9232.186 | 44.27 | 4.09 | 48.36 | 54.00 | -5.64 | peak | | | |
| 4 | 12255.224 | 41.79 | 6.84 | 48.63 | 54.00 | -5.37 | peak | | | |

Job No.: alen #4576

Polarization: Vertical

Standard: FCC Class B 3M Radiated

Power Source: AC 120V/60Hz

Test item: Radiation Test

Date: 14/06/25/

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

Time: 11/47/42

EUT: 4" 3G Tablet

Engineer Signature:

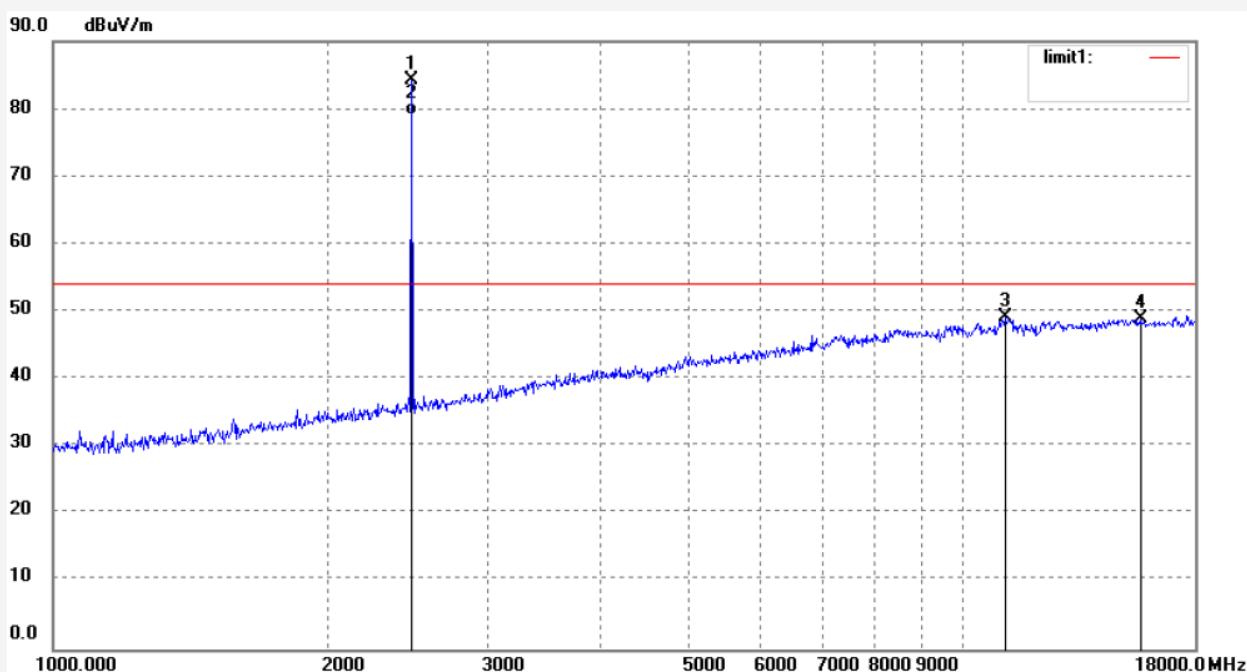
Mode: TX 2480MHz

Distance: 3m

Model: ICE

Manufacturer: IMC

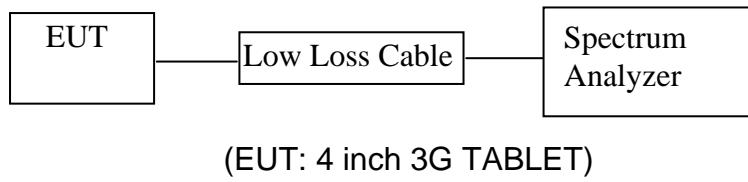
Note: Report No:ATE20141088



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1 | 2480.010 | 90.91 | -6.56 | 84.35 | | | peak | | | |
| 2 | 2480.010 | 85.68 | -6.56 | 79.12 | | | AVG | | | |
| 3 | 11140.310 | 43.55 | 5.65 | 49.20 | 54.00 | -4.80 | peak | | | |
| 4 | 15668.211 | 37.46 | 11.37 | 48.83 | 54.00 | -5.17 | peak | | | |

11. CONDUCTED SPURIOUS EMISSION COMPLIANCE TEST

11.1. Block Diagram of Test Setup



11.2. The Requirement of 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).

11.3. 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.

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 TX modes measure it. The transmit frequency are 2402-2480 MHz. We select 2402MHz, 2440MHz, and 2480MHz TX frequency to transmit.

11.5. Test Procedure

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

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

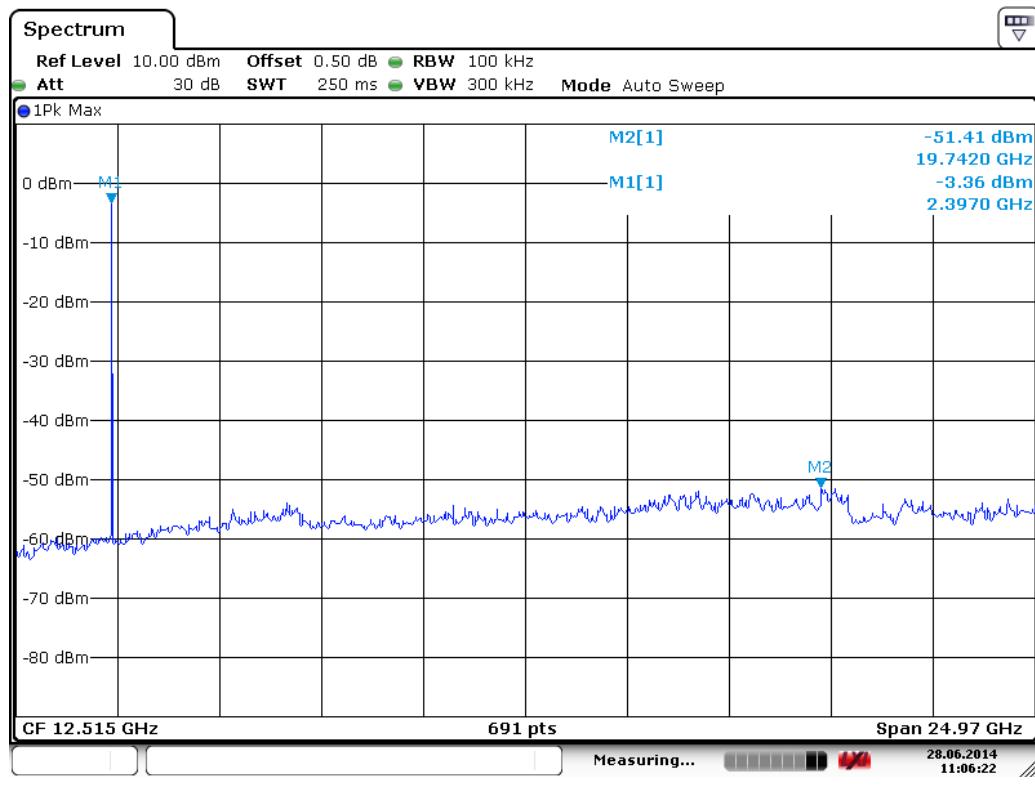
11.5.3. The Conducted Spurious Emission was measured and recorded.

11.6. Test Result

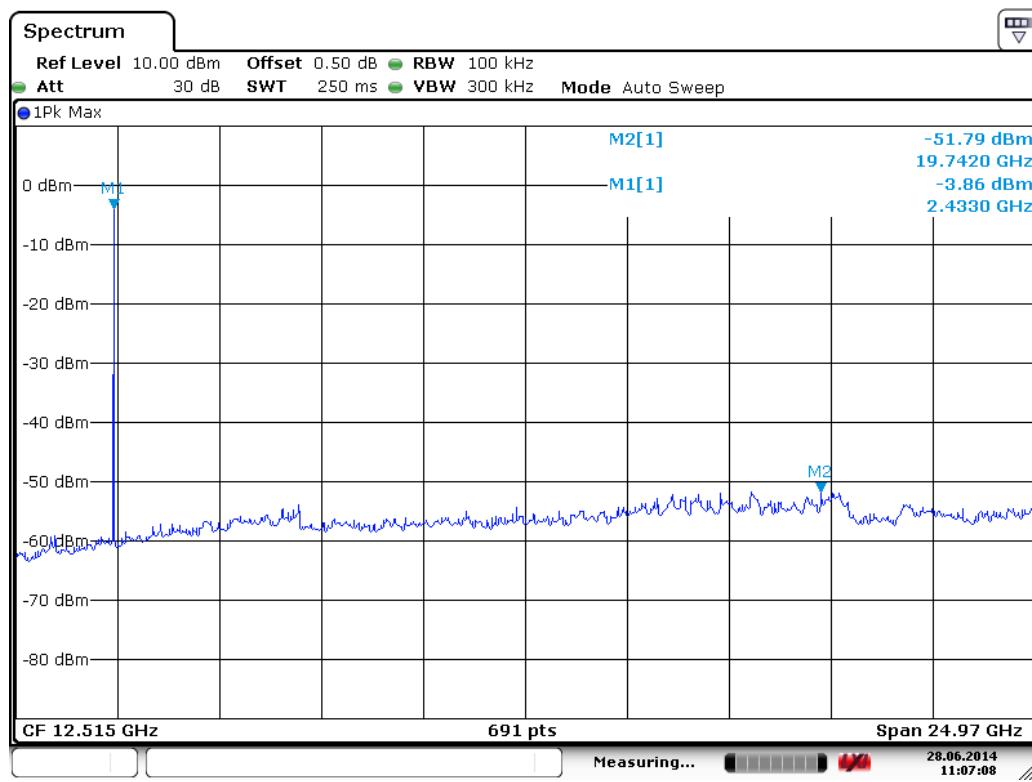
Pass.

The spectrum analyzer plots are attached as below.

BLE Channel Low 2402MHz

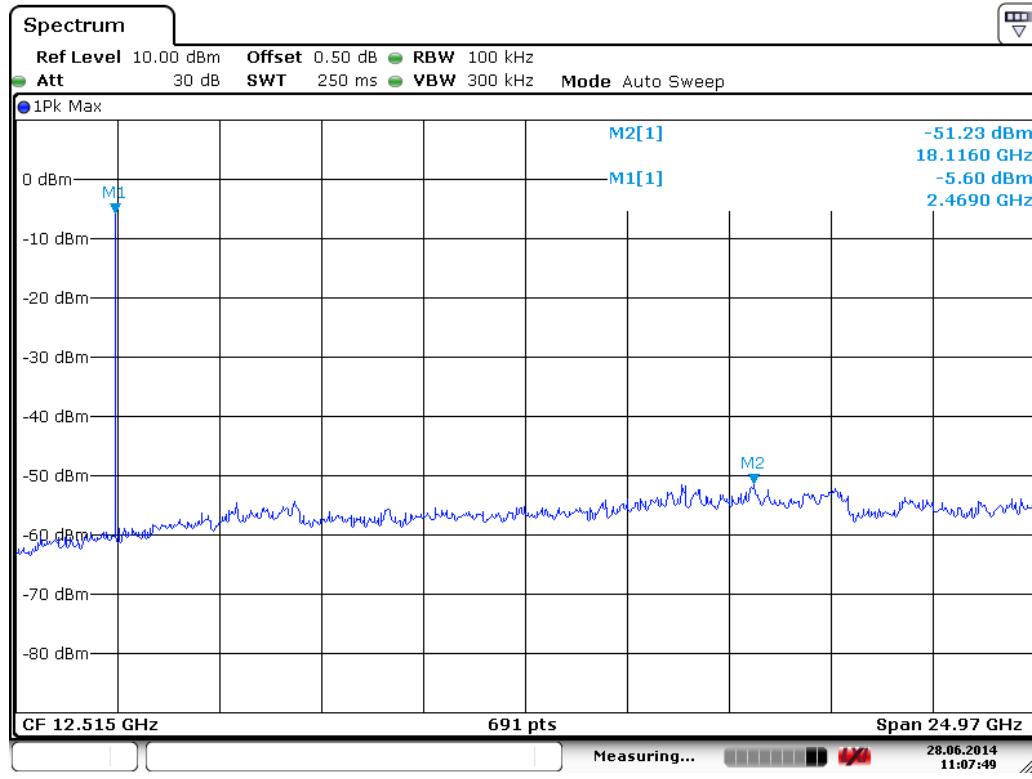


BLE Channel Middle 2440MHz



Date: 28.JUN.2014 11:07:08

BLE Channel High 2480MHz



Date: 28.JUN.2014 11:07:49

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.

