



|  |  |   |                             |  |
|--|--|---|-----------------------------|--|
| <b>Prüfbericht-Nr.:</b><br><i>Test report No.:</i>   | <b>50052935 002</b>  | <b>Auftrags-Nr.:</b><br><i>Order No.:</i>   | <b>164069063</b>            | Seite 1 von 31<br>Page 1 of 31               |
| <b>Kunden-Referenz-Nr.:</b><br><i>Client reference No.:</i>  | N/A  | <b>Auftragsdatum:</b><br><i>Order date.:</i>  | <b>14.07.2016</b>           |  |
| <b>Auftraggeber:</b><br><i>Client:</i>   | <b>ContextMedia LLC</b><br>330 N. Wabash Ave STE 2500, Chicago, Illinois United States.  |   |                             |  |
| <b>Prüfgegenstand:</b><br><i>Test item:</i>  | Wallboard 32" Tablet   |   |                             |  |
| <b>Bezeichnung / Typ-Nr.:</b><br><i>Identification / Type No.:</i>   | P-WAL-106-ELC-XX (XX equals to 00, 01, 02, 03...99)<br>(ContextMedia Health)   |   |                             |  |
| <b>Auftrags-Inhalt:</b><br><i>Order content:</i>   | FCC and IC approval  |   |                             |  |
| <b>Prüfgrundlage:</b><br><i>Test specification:</i>  | CFR47 FCC Part 15: Subpart C Section 15.247<br>CFR47 FCC Part 15: Subpart C Section 15.207<br>CFR47 FCC Part 15: Subpart C Section 15.209<br>RSS-247 Issue 1 May 2015<br>RSS-Gen Issue 4 November 2014 |   |                             |  |
| <b>Wareneingangsdatum:</b><br><i>Date of receipt:</i>  | 21.07.2016   | Please refer to photo documents   |                             |  |
| <b>Prüfmuster-Nr.:</b><br><i>Test sample No.:</i>  | A000395547-002   |   |                             |  |
| <b>Prüfzeitraum:</b><br><i>Testing period:</i>   | 27.07.2016 - 11.08.2016  |   |                             |  |
| <b>Ort der Prüfung:</b><br><i>Place of testing:</i>  | Accurate Technology Co., Ltd.  |   |                             |  |
| <b>Prüflaboratorium:</b><br><i>Testing laboratory:</i>   | TÜV Rheinland (Shenzhen)<br>Co., Ltd.  |   |                             |  |
| <b>Prüfergebnis*:</b><br><i>Test result*:</i>  | Pass   |   |                             |  |
| <b>geprüft von / tested by:</b>  |  | <b>kontrolliert von / reviewed by:</b>  |                             |  |
| <br>09.08.2016 Andy Yan / Project Manager   |  | <br>09.08.2016 Owen Tian / Technical Certifier |                             |  |
| <b>Datum</b><br><i>Date</i>  | <b>Name/Stellung</b><br><i>Name/Position</i>   | <b>Unterschrift</b><br><i>Signature</i>   | <b>Datum</b><br><i>Date</i> | <b>Name/Stellung</b><br><i>Name/Position</i> |
|  |  |   |                             | <b>Unterschrift</b><br><i>Signature</i>      |
| <b>Sonstiges / Other:</b>  |  |   |                             |  |
| FCC ID: 2A16X-PWALELC<br>IC: 21722-PWALELC HVIN: P-WAL-106-ELC-01, P-WAL-106-ELC-02, P-WAL-106-ELC-03<br>All the Identification no. are identical in the hardware and electronic aspects with each other.<br>All the HVIN no. are identical in the hardware and electronic aspects with each other, the difference is only color appearance.   |  |   |                             |  |
| <b>Zustand des Prüfgegenstandes bei Anlieferung:</b><br><i>Condition of the test item at delivery:</i>   |  | <b>Prüfmuster vollständig und unbeschädigt</b><br><i>Test item complete and undamaged:</i>  |                             |  |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft<br>P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet<br>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor<br>P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested                        |  |   |                             |  |
| <b>Dieser Prüfbericht bezieht sich nur auf das o.g. Prüfmuster und darf ohne Genehmigung der Prüfstelle nicht auszugsweise vervielfältigt werden. Dieser Bericht berechtigt nicht zur Verwendung eines Prüfzeichens.</b><br><i>This test report only relates to the a. m. test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any test mark.</i> |  |   |                             |  |

## ***Test Summary***

**5.1.1 ANTENNA REQUIREMENT***RESULT: Pass***5.1.2 MAXIMUM PEAK CONDUCTED OUTPUT POWER***RESULT: Pass***5.1.3 CONDUCTED POWER SPECTRAL DENSITY***RESULT: Pass***5.1.4 6dB BANDWIDTH***RESULT: Pass***5.1.5 99% BANDWIDTH***RESULT: Pass***5.1.6 CONDUCTED SPURIOUS EMISSIONS MEASURED IN 100 KHz BANDWIDTH***RESULT: Pass***5.1.7 RADIATED SPURIOUS EMISSION***RESULT: Pass***5.1.8 20dB BANDWIDTH***RESULT: Pass***5.1.9 CARRIER FREQUENCY SEPARATION***RESULT: Pass***5.1.10 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.11 TIME OF OCCUPANCY***RESULT: Pass***5.1.12 CONDUCTED EMISSION ON AC MAINS***RESULT: Pass*

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# 1 General Remarks

## 1.1 Complementary Materials

All attachments are integral parts of this test report. This applies especially to the following appendix:

Appendix B: Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

Appendix C: Test Results of Bluetooth 4.1 (Dual mode) of AC Conducted and Radiated Emission

# 2 Test Sites

## 2.1 Test Facilities

**Accurate Technology Co., Ltd.**

F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China

FCC Registration No.: 752051

Test site Industry Canada No.: 5077A-2

The tests at the test sites have been conducted under the supervision of a TÜV engineer.

## 2.2 List of Test and Measurement Instruments

**Table 1: List of Test and Measurement Equipment**

**Accurate Technology Co., Ltd.**

| <b>Radio Spectrum Test</b>            |                      |                  |                   |                   |
|---------------------------------------|----------------------|------------------|-------------------|-------------------|
| <b>Equipment</b>                      | <b>Manufacturer</b>  | <b>Model No.</b> | <b>Serial No.</b> | <b>Cal. Until</b> |
| Spectrum Analyzer                     | R&S                  | ESPI3            | 100396/003        | 09.01.2017        |
| <b>Spurious Emission</b>              |                      |                  |                   |                   |
| <b>Equipment</b>                      | <b>Manufacturer</b>  | <b>Model No.</b> | <b>Serial No.</b> | <b>Cal. Until</b> |
| Spectrum Analyzer                     | R&S                  | FSV40            | 101495            | 09.01.2017        |
| Test Receiver                         | R&S                  | ESCS30           | 100307            | 09.01.2017        |
| Bilog Antenna                         | Schwarzbeck          | VULB9163         | 9163-323          | 14.01.2017        |
| Loop Antenna                          | Schwarzbeck          | FMZB1516         | 1516131           | 14.01.2017        |
| Horn Antenna                          | Schwarzbeck          | BBHA9120D        | 9120D-655         | 14.01.2017        |
| Horn Antenna                          | Schwarzbeck          | BBHA9170         | 9170-359          | 14.01.2017        |
| RF Switching Unit+PreAMP              | Compliance Direction | RSU-M2           | 38322             | 09.01.2017        |
| Pre-Amplifier                         | R&S                  | CBLU11835 40-01  | 3791              | 09.01.2017        |
| 50 Coaxial Switch                     | Anritsu Corp         | MP59B            | 6200506474        | 09.01.2017        |
| RF Coaxial Cable                      | SUHNER               | N-3m             | No.8              | 09.01.2017        |
| RF Coaxial Cable                      | RESENBERGER          | N-3.5m           | No.9              | 09.01.2017        |
| RF Coaxial Cable                      | SUHNER               | N-6m             | No.10             | 09.01.2017        |
| RF Coaxial Cable                      | RESENBERGER          | N-12m            | No.11             | 09.01.2017        |
| 50_ Coaxial Switch                    | Anritsu Corp         | MP59B            | 6200283933        | 09.01.2017        |
| <b>Conducted Emission on AC Mains</b> |                      |                  |                   |                   |
| <b>Equipment</b>                      | <b>Manufacturer</b>  | <b>Model No.</b> | <b>Serial No.</b> | <b>Cal. Until</b> |
| Test Receiver                         | R&S                  | ESCS30           | 100307            | 09.01.2017        |
| L.I.S.N.                              | R&S                  | NLSK8126         | 8126431           | 09.01.2017        |
| 50Ω Coaxial Switch                    | Anritsu              | MP59B            | 6200283933        | 09.01.2017        |

## 2.3 Traceability

All measurement equipment calibrations are traceable to NIM (National Institute of Metrology) or where calibration is performed in other countries, to equivalent nationally recognized standards organizations.

## 2.4 Calibration

Equipment requiring calibration is calibrated periodically by the manufacturer or according to manufacturer's specifications. Additionally all equipment is verified for proper performance on a regular basis using in house standards or comparisons.

## 2.5 Measurement Uncertainty

The estimated combined standard uncertainty for radiated emissions and conducted emissions measurements as below table

| Item                              |                         | Extended Uncertainty |
|-----------------------------------|-------------------------|----------------------|
| Conducted Emission                |                         | ± 3.0 dB             |
| Radiated Emission (9kHz-30MHz)    | Field strength (dBµV/m) | U=3.08dB, k=2, σ=95% |
| Radiated Emission (30-1000MHz)    | Field strength (dBµV/m) | U=4.42dB, k=2, σ=95% |
| Radiated Emission (above 1000MHz) | Field strength (dBµV/m) | U=4.06dB, k=2, σ=95% |
| Occupied Channel Bandwidth        |                         | ±5.0 %               |
| RF Output Power, Conducted        |                         | ±1.5 dB              |
| Power Spectral Density, Conducted |                         | ±3.0 dB              |
| Unwanted Emission, Conducted      |                         | ±3.0 dB              |
| Duty Cycle                        |                         | ±5.0 %               |

## 2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix B & C of this report and delivered to the applicant. A copy has been retained in the TÜV Rheinland (Shenzhen) file for certification follow-up purposes.

## 2.7 Status of Facility Used for Testing

The Accurate Technology Co., Ltd. Test facility located at F1, Bldg. A, Changyuan New Material Port Keyuan Rd., Science & Industry Park, Nanshan Shenzhen, 518057, P.R. China is listed on the US Federal Communications Commission list of facilities approved to perform measurements.

### 3 General Product Information

#### 3.1 Product Function and Intended Use

The EUT is a Wallboard 32" Tablet which supports Bluetooth (dual mode) and Wi-Fi 802.11 a/b/g/n/ac wireless technology. This report is only for Bluetooth function of DTS and DSS. Other functions with different technologies are reported in the related reports.

According to the declaration of the applicant, the electrical circuit design, PCB layout and components used are identical for all models, only the model No. and appearance are different.

For details refer to the User Manual, Technical Description and Circuit Diagram.

#### 3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| Technical Specification     | Value   |
|-----------------------------|---|
| Kind of Equipment           | Wallboard 32" Tablet  |
| Type Designation            | P-WAL-106-ELC-XX (XX equals to 00, 01, 02, 03...99)                               |
| Trade Mark                  | ContextMedia Health   |
| FCC ID                      | 2A16X-PWALELC   |
| IC                          | 21722-PWALELC   |
| HVIN                        | P-WAL-106-ELC-01, P-WAL-106-ELC-02, P-WAL-106-ELC-03                              |
| Operating Frequency         | 2402 - 2480 MHz   |
| Operating Temperature Range | 0 °C ~ +40 °C   |
| Operating Voltage           | DC 12 V from AC/DC Adapter  |
| Testing Voltage             | DC 12 V from AC/DC Adapter with input 120V/60Hz                                   |
| AC/DC Adapter               | Model: FJ-SW1205000<br>Input: AC 100-240V~50/60Hz 1.5A<br>Output: DC 12.0V~5000mA |
| Type of Modulation          | GFSK, $\pi/4$ DQPSK, 8DPSK  |
| Channel Number              | BDR & EDR mode:79 channels; Low Energy mode:40 channels                           |
| Channel Separation          | BDR & EDR mode:1MHz; Low Energy mode:2MHz   |
| Wireless Technology         | Bluetooth 4.0 (Dual mode)   |
| Antenna Type                | Integral Antenna  |
| Max. Antenna Gain           | 2.00 dBi  |

**Table 3: RF Channel and Frequency of Bluetooth**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 00         | 2402.00         | 20         | 2422.00         | 40         | 2442.00         | 60         | 2462.00         |
| 01         | 2403.00         | 21         | 2423.00         | 41         | 2443.00         | 61         | 2463.00         |
| 02         | 2404.00         | 22         | 2424.00         | 42         | 2444.00         | 62         | 2464.00         |
| 03         | 2405.00         | 23         | 2425.00         | 43         | 2445.00         | 63         | 2465.00         |
| 04         | 2406.00         | 24         | 2426.00         | 44         | 2446.00         | 64         | 2466.00         |
| 05         | 2407.00         | 25         | 2427.00         | 45         | 2447.00         | 65         | 2467.00         |
| 06         | 2408.00         | 26         | 2428.00         | 46         | 2448.00         | 66         | 2468.00         |
| 07         | 2409.00         | 27         | 2429.00         | 47         | 2449.00         | 67         | 2469.00         |
| 08         | 2410.00         | 28         | 2430.00         | 48         | 2450.00         | 68         | 2470.00         |
| 09         | 2411.00         | 29         | 2431.00         | 49         | 2451.00         | 69         | 2471.00         |
| 10         | 2412.00         | 30         | 2432.00         | 50         | 2452.00         | 70         | 2472.00         |
| 11         | 2413.00         | 31         | 2433.00         | 51         | 2453.00         | 71         | 2473.00         |
| 12         | 2414.00         | 32         | 2434.00         | 52         | 2454.00         | 72         | 2474.00         |
| 13         | 2415.00         | 33         | 2435.00         | 53         | 2455.00         | 73         | 2475.00         |
| 14         | 2416.00         | 34         | 2436.00         | 54         | 2456.00         | 74         | 2476.00         |
| 15         | 2417.00         | 35         | 2437.00         | 55         | 2457.00         | 75         | 2477.00         |
| 16         | 2418.00         | 36         | 2438.00         | 56         | 2458.00         | 76         | 2478.00         |
| 17         | 2419.00         | 37         | 2439.00         | 57         | 2459.00         | 77         | 2479.00         |
| 18         | 2420.00         | 38         | 2440.00         | 58         | 2460.00         | <b>78</b>  | <b>2480.00</b>  |
| 19         | 2421.00         | <b>39</b>  | <b>2441.00</b>  | 59         | 2461.00         | --         | --              |

**Table 4: RF Channel and Frequency of Bluetooth Low Energy**

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
| 00         | 2402.00         | 10         | 2422.00         | 20         | 2442.00         | 30         | 2462.00         |
| 01         | 2404.00         | 11         | 2424.00         | 21         | 2444.00         | 31         | 2464.00         |
| 02         | 2406.00         | 12         | 2426.00         | 22         | 2446.00         | 32         | 2466.00         |
| 03         | 2408.00         | 13         | 2428.00         | 23         | 2448.00         | 33         | 2468.00         |
| 04         | 2410.00         | 14         | 2430.00         | 24         | 2450.00         | 34         | 2470.00         |
| 05         | 2412.00         | 15         | 2432.00         | 25         | 2452.00         | 35         | 2472.00         |
| 06         | 2414.00         | 16         | 2434.00         | 26         | 2454.00         | 36         | 2474.00         |
| 07         | 2416.00         | 17         | 2436.00         | 27         | 2456.00         | 37         | 2476.00         |
| 08         | 2418.00         | 18         | 2438.00         | 28         | 2458.00         | 38         | 2478.00         |
| 09         | 2420.00         | <b>19</b>  | <b>2440.00</b>  | 29         | 2460.00         | <b>39</b>  | <b>2480.00</b>  |



**Table 5: Frequency Hopping Information**

| Technical Specification  | Description  |
|--------------------------|--|
| Hopping Range            | Hereby we declare that the frequency range of this device is: 2402-2480MHz. This is according the Bluetooth Core Specification V2.1 + EDR for devices which will be operated in the USA. This was checked during the Bluetooth Qualification tests (Test Case: TRM/CA/04-E).   |
| Hopping Sequence         | Example of a 79 hopping sequence in data mode:<br><br>33,04,21,44,23,42,53,46,55,48,40,59,72,29,76,31,08,73,07,75,09,45,60,39,58,13,47,11,77,52,35,50,65,54,67,56,69,62,71,64, 7,25,27,66,57,70,74,61,78,63,10,41,05,43,15,44,64,68,02,70,06,01,51,03,55,05,03,66,53,49,36,47,   |
| Receiver input bandwidth | <p>The input bandwidth of the receiver is 1MHz. In every connection one Bluetooth device is the master and the other one is the slave. The master determines the hopping sequence. The slave follows this sequence. Both devices shift between RX and TX time slot according to the clock of the master.</p> <p>Additionally the type of connection is set up at the beginning of the connection. The master adapts its hopping frequency and its TX/RX timing according to the packet type of the connection. Also the slave of the connection will use these settings.</p> <p>Repeating of a packer has no influence on the hopping sequence. The hopping sequence generated by the master of the connection will be followed in any case.</p> <p>That means a repeated packet will not be send on the same frequency, it is send on the next frequency of the hopping sequence.</p> |

### 3.3 Independent Operation Modes

The basic operation modes are:

- A. On
  - 1. Bluetooth transmitting mode (BDR & EDR mode)
    - a) Low Channel
    - b) Middle Channel
    - c) High Channel
  - 2. Bluetooth transmitting mode (Low Energy mode)
    - a) Low Channel
    - b) Middle Channel
    - c) High Channel
- B. On, Transmitting on Hopping channel
- C. On, Bluetooth connecting mode

### 3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

### 3.5 Submitted Documents

- |                         |                                  |
|-------------------------|----------------------------------|
| - Application Form      | - FCC/IC Label and Location Info |
| - Block Diagram         | - Photo Document                 |
| - Schematics            | - User Manual                    |
| - Technical Description |                                  |

## 4 Test Set-up and Operation Modes

### 4.1 Principle of Configuration Selection

**Radio Spectrum:** The equipment under test (EUT) was configured at its highest power output in order to measure its highest possible radiation and conducted level. The test modes were adapted accordingly in reference to the instructions for use.

**Emission:** The equipment under test (EUT) was configured to measure its highest possible radiation level. The test modes were adapted accordingly in reference to the instructions for use.

### 4.2 Test Operation and Test Software

Test operation refers to test setup in chapter 5. All testing were performed according to the procedures in ANSI C63.10: 2013.

### 4.3 Special Accessories and Auxiliary Equipment

Table 6: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model              | S/N        | Rating  |
|-------------|--------------|--------------------|------------|---|
| Adapter 1   | FUJIA        | FJ-SW1205000       | N/A        | Input: 100-240V~, 50/60Hz, 1.5A<br>Output: DC 12.0V, 5.0A |
| Adapter 2   | Mass Power   | NBS65A120500B<br>3 | N/A        | Input: 100-240V~, 50/60Hz, 1.5A<br>Output: DC 12.0V, 5.0A |
| Notebook PC | Lenovo       | ThinkPad X240      | N/A        | N/A   |
| Printer     | HP           | HP laserjet 1015   | CNFG030424 | N/A   |

### 4.4 Countermeasures to Achieve EMC Compliance

The test sample which has been tested contained the noise suppression parts as described in the Technical Construction File (TCF).

No additional measures were employed to achieve compliance.

## 4.5 Test Setup Diagram

Diagram of Measurement Configuration for Radiation Test (Below 1GHz)

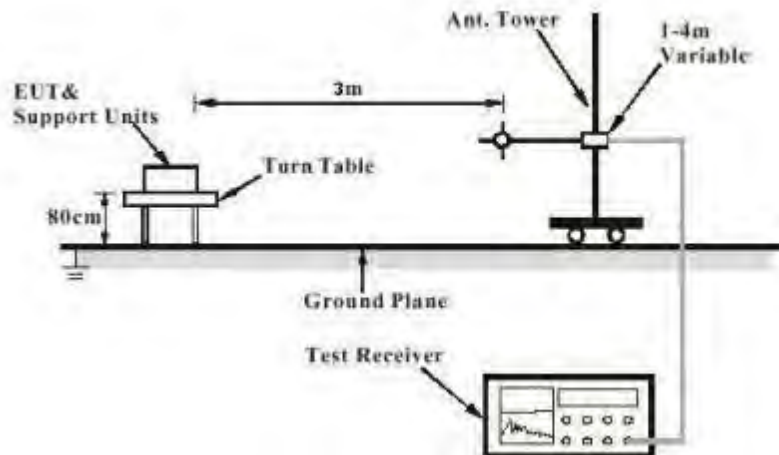
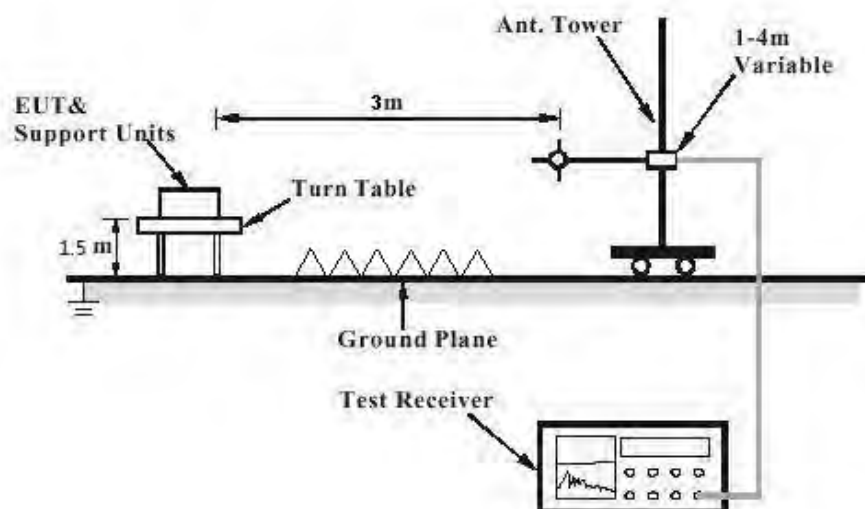
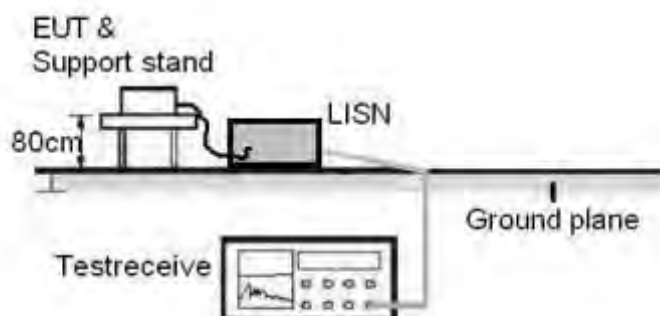


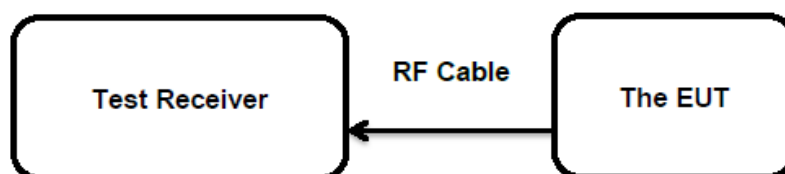
Diagram of Measurement Configuration for Radiation Test (Above 1GHz)



### Diagram of Measurement Configuration for Mains Conduction Measurement



### Diagram of Measurement Configuration for Conducted Transmitter Measurement



## 5 Test Results

### 5.1 Transmitter Requirement & Test Suites

#### 5.1.1 Antenna Requirement

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(b)(4) and Part 15.203  
RSS-Gen Clause 8.3

According to the manufacturer declared, the EUT has an integral antenna, the directional gain of antenna is 2.0dBi, and the antenna connector is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Therefore the EUT is considered sufficient to comply with the provision.

Refer to EUT Photo for further details.

## 5.1.2 Maximum Peak Conducted Output Power

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(b)(1)&(3)  
RSS-247 Clause 5.4(2)&(4)

Basic standard : ANSI C63.10: 2013

Limits : FHSS < 0.125 Watts, DSSS < 1.0 Watts

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 27.07.2016 ~ 29.07.2016

Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz

Operation mode : A.1, A.2

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

**Table 7: Test Result of Maximum Peak Conducted Output Power**

| Test Mode              | Channel Frequency (MHz) | Measured Peak Output Power |         | Limit (W) |
|------------------------|-------------------------|----------------------------|---------|-----------|
|                        |                         | (dBm)                      | (W)     |           |
| BDR                    | 2402                    | 5.07                       | 0.00321 | < 0.125   |
|                        | 2441                    | 8.25                       | 0.00668 |           |
|                        | 2480                    | 6.17                       | 0.00414 |           |
| EDR                    | 2402                    | 3.64                       | 0.00231 | < 0.125   |
|                        | 2441                    | 7.29                       | 0.00536 |           |
|                        | 2480                    | 4.99                       | 0.00316 |           |
| Low Energy             | 2402                    | -1.35                      | 0.00073 | < 1.0     |
|                        | 2440                    | 2.30                       | 0.00170 |           |
|                        | 2480                    | 1.54                       | 0.00143 |           |
| Maximum Measured Value |                         | 8.25                       | 0.00668 | /         |

Note: The cable loss 2.0 dB is taken into account in results.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix B.

### 5.1.3 Conducted Power Spectral Density

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(e)  
RSS-247 Clause 5.2(2)

Basic standard : ANSI C63.10: 2013

Limits : 8 dBm/3kHz

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 27.07.2016

Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz

Operation mode : A.2

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

**Table 8: Test Result of Power Spectral Density, Low Energy**

| Test Mode                     | Test Channel (MHz) | Power Spectrum Density(dBm/3kHz) | Limit (dBm/3kHz) |
|-------------------------------|--------------------|----------------------------------|------------------|
| Low Energy                    | 2402               | -15.63                           | < 8.0            |
|                               | 2440               | -11.97                           |                  |
|                               | 2480               | -12.66                           |                  |
| <b>Maximum Measured Value</b> |                    | -11.97                           |                  |

Note: The cable loss 2.0 dB is taken into account in results.

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix B.



### 5.1.4 6dB Bandwidth

**RESULT:****Pass****Test Specification**

Test standard : FCC Part 15.247(a)(2)  
RSS-247 Clause 5.2(1)  
Basic standard : ANSI C63.10: 2013  
Limits : More than 500 KHz  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 27.07.2016  
Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz  
Operation mode : A.2  
Test channel : Low / Middle / High  
Ambient temperature : 25 °C  
Relative humidity : 56 %  
Atmospheric pressure : 101 kPa

**Table 9: Test Result of 6dB Bandwidth, Low Energy**

| Test Mode              | Test Channel (MHz) | -6dB Bandwidth (kHz) | Limit (kHz) |
|------------------------|--------------------|----------------------|-------------|
| Low Energy             | 2402               | 738.10               | > 500       |
|                        | 2440               | 738.10               |             |
|                        | 2480               | 738.10               |             |
| Minimum Measured Value |                    | 738.10               |             |

For the measurement records, refer to the appendix B.

### 5.1.5 99% Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : RSS-Gen Clause 6.6  
 Basic standard : ANSI C63.10: 2013  
 Kind of test site : Shielded Room

**Test Setup**

Date of testing : 27.07.2016 ~ 29.07.2016  
 Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz  
 Operation mode : A.1, A.2  
 Test channel : Low / Middle / High  
 Ambient temperature : 25 °C  
 Relative humidity : 56 %  
 Atmospheric pressure : 101 kPa

**Table 10: Test Result of 99% Bandwidth**

| Test Mode              | Channel Frequency (MHz) | 99% Bandwidth (kHz) | Limit (kHz) |
|------------------------|-------------------------|---------------------|-------------|
| BDR                    | 2402                    | 994.2               | /           |
|                        | 2441                    | 998.6               |             |
|                        | 2480                    | 998.6               |             |
| EDR                    | 2402                    | 1228.7              | /           |
|                        | 2441                    | 1228.7              |             |
|                        | 2480                    | 1228.7              |             |
| Low Energy             | 2402                    | 1081.0              | /           |
|                        | 2440                    | 1085.4              |             |
|                        | 2480                    | 1085.4              |             |
| Maximum Measured Value |                         | 1228.7              | /           |

For the measurement records, refer to the appendix B.

**5.1.6 Conducted Spurious Emissions Measured in 100 kHz Bandwidth****RESULT:****Pass****Test Specification**

|                   |   |
|-------------------|---|
| Test standard     | : FCC Part 15.247(d)<br>RSS-247 Clause 5.5  |
| Basic standard    | : ANSI C63.10: 2013   |
| Limits            | : 20dB (below that in the 100kHz bandwidth within the band that contains the highest level of the desired power); |
| Kind of test site | : Shielded Room   |

**Test Setup**

|                      |   |
|----------------------|---|
| Date of testing      | : 27.07.2016 ~ 29.07.2016                         |
| Input voltage        | : DC 12 V from AC/DC Adapter with input 120V/60Hz |
| Operation mode       | : A.1, A.2  |
| Test channel         | : Low / Middle / High                             |
| Ambient temperature  | : 25 °C   |
| Relative humidity    | : 56 %  |
| Atmospheric pressure | : 101 kPa   |

Test results of 100kHz Bandwidth of Frequency Band Edge by Conducted method refer to following test plot, and compliance is achieved as well.

For the measurement records, refer to the appendix B.

### 5.1.7 Radiated Spurious Emission

**RESULT:****Pass****Test Specification**

|                   |   |
|-------------------|---|
| Test standard     | : FCC Part 15.247(d) & FCC Part 15.205<br>RSS-247 Clause 3.3            |
| Basic standard    | : ANSI C63.10: 2013   |
| Limits            | : Refer to 15.209(a) of FCC part 15.247(d)<br>RSS-Gen Table 4 & Table 5 |
| Kind of test site | : 3m Semi-anechoic Chamber  |

**Test Setup**

|                      |   |
|----------------------|---|
| Date of testing      | : 03.08.2016 ~ 11.08.2016                         |
| Input voltage        | : DC 12 V from AC/DC Adapter with input 120V/60Hz |
| Operation mode       | : A.1, A.2  |
| Test channel         | : Low / Middle / High                             |
| Ambient temperature  | : 23 °C   |
| Relative humidity    | : 48 %  |
| Atmospheric pressure | : 101 kPa   |

**Remark:**

During the pretest the EUT was rotated through three orthogonal axes to determine the attitude that maximizes the emissions. After that the EUT was manually handled to find the orientation that has the maximum emission, which is the orientation shown in the test set-up photos.

Pre-test the EUT in continuous transmitting with different data packet. Compliance test in continuous transmitting mode with BDR mode (DH5) as the worst case was found.

Testing was carried out within frequency range 9kHz to the tenth harmonics.

For the measurement records, refer to the appendix C.

### 5.1.8 20dB Bandwidth

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(a)(1)  
RSS-247 Clause 5.1(1)

Basic standard : ANSI C63.10: 2013

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 29.07.2016

Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz

Operation mode : A.1

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

**Table 11: Test Result of 20dB Bandwidth**

| Test Mode                     | Channel Frequency (MHz) | 20dB Bandwidth (kHz) | 2/3 of 20dB Bandwidth (kHz) | Limit (MHz)                              |
|-------------------------------|-------------------------|----------------------|-----------------------------|--|
| BDR                           | 2402                    | 1037.7               | 691.8                       | Within the Frequency band 2400~2483.5MHz |
|                               | 2441                    | 1037.6               | 691.7                       |  |
|                               | 2480                    | 1037.6               | 691.7                       |  |
| EDR                           | 2402                    | 1328.5               | 885.7                       |  |
|                               | 2441                    | 1328.5               | 885.7                       |  |
|                               | 2480                    | 1328.5               | 885.7                       |  |
| <b>Maximum Measured Value</b> |                         | 1328.5               | 885.7                       |  |

For the measurement records, refer to the appendix B.

### 5.1.9 Carrier Frequency Separation

**RESULT:**
**Pass**
**Test Specification**

Test standard : FCC Part 15.247(a)(1)  
RSS-247 Clause 5.1(2)

Basic standard : ANSI C63.10: 2013

Limits :  $\geq 25\text{kHz}$  or  $2/3$  of 20dB bandwidth, whichever is greater

Kind of test site : Shielded Room

**Test Setup**

Date of testing : 29.07.2016

Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz

Operation mode : B

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

**Table 12: Test Result of Carrier Frequency Separation**

| Channel           | Channel Frequency (MHz) | Measured Channel Separation (KHz) | Limit (kHz)                      | Result |
|-------------------|-------------------------|-----------------------------------|----------------------------------|--------|
| Low Channel       | 2402                    | 1002.9                            | ≥ 25kHz or 2/3 of 20dB bandwidth | Pass   |
| Adjacency Channel | 2403                    |                                   |                                  |        |
| Middle Channel    | 2441                    | 1002.9                            |                                  | Pass   |
| Adjacency Channel | 2442                    |                                   |                                  |        |
| High Channel      | 2480                    | 1002.9                            |                                  | Pass   |
| Adjacency Channel | 2479                    |                                   |                                  |        |

Note:

The limit is maximum  $2/3$  of the 20 dB bandwidth: 885.7 KHz.

For the measurement records, refer to the appendix B.

**5.1.10 Number of Hopping Frequency****RESULT:****Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
RSS-247 Clause 5.1(4)  
Basic standard : ANSI C63.10: 2013  
Limits :  $\geq 15$  non-overlapping channels  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 29.07.2016  
Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz  
Operation mode : B  
Ambient temperature : 25 °C  
Relative humidity : 56 %  
Atmospheric pressure : 101 kPa

**Table 13: Test Result of Number of Hopping Frequency**

| Frequency Range  | Measured Quantity of Hopping Channel | Limit     | Result |
|------------------|--------------------------------------|-----------|--------|
| 2402 to 2480 MHz | 79                                   | $\geq 15$ | Pass   |

For the measurement records, refer to the appendix B.

**5.1.11 Time of Occupancy****RESULT:****Pass****Test Specification**

Test standard : FCC part 15.247(a)(1)(iii)  
RSS-247 Clause 5.1(4)  
Basic standard : ANSI C63.10: 2013  
Limits : < 0.4s  
Kind of test site : Shielded Room

**Test Setup**

Date of testing : 29.07.2016  
Input voltage : DC 12 V from AC/DC Adapter with input 120V/60Hz  
Operation mode : B  
Test channel : Low / Middle / High  
Ambient temperature : 25 °C  
Relative humidity : 56 %  
Atmospheric pressure : 101 kPa



**Table 14: Test Result of Time of Occupancy**

| Test Mode              | Test Channel | Data Packet | Pulse width (ms) | Measured Dwell time(s) | Limit (s) |
|------------------------|--------------|-------------|------------------|------------------------|-----------|
| BDR mode               | 2402         | DH1         | 0.442            | 0.141                  | < 0.4s    |
|                        |              | DH3         | 1.703            | 0.272                  |           |
|                        |              | DH5         | 2.986            | 0.319                  |           |
|                        | 2441         | DH1         | 0.442            | 0.141                  |           |
|                        |              | DH3         | 1.688            | 0.270                  |           |
|                        |              | DH5         | 2.964            | 0.316                  |           |
|                        | 2480         | DH1         | 0.442            | 0.141                  |           |
|                        |              | DH3         | 1.688            | 0.270                  |           |
|                        |              | DH5         | 2.964            | 0.316                  |           |
| EDR mode               | 2402         | 3DH1        | 0.442            | 0.141                  |           |
|                        |              | 3DH3        | 1.703            | 0.272                  |           |
|                        |              | 3DH5        | 2.986            | 0.319                  |           |
|                        | 2441         | 3DH1        | 0.442            | 0.141                  |           |
|                        |              | 3DH3        | 1.703            | 0.272                  |           |
|                        |              | 3DH5        | 2.986            | 0.319                  |           |
|                        | 2480         | 3DH1        | 0.442            | 0.141                  |           |
|                        |              | 3DH3        | 1.688            | 0.270                  |           |
|                        |              | 3DH5        | 2.986            | 0.319                  |           |
| Maximum Measured Value |              |             | 2.986            | 0.319                  |           |

Note:

Dwell time = Pulse width x (Hopping rate / Number of channels) x Period

Period = 0.4 x 79 (channel) = 31.6 seconds

This testing was carried out on all operation modes, but only the worst case was presented in this report.

For the measurement records, refer to the appendix B.

**5.1.12 Conducted Emission on AC Mains****RESULT:****Pass****Test Specification**

|                   |  |
|-------------------|--|
| Test standard     | : FCC Part 15.207(a)<br>RSS-Gen Clause 8.8 |
| Basic standard    | : ANSI C63.10: 2013                        |
| Frequency range   | : 0.15 – 30MHz                             |
| Limits            | : FCC Part 15.207(a)<br>RSS-Gen Table 3    |
| Kind of test site | : Shielded Room                            |

**Test Setup**

|                      |   |
|----------------------|---|
| Date of testing      | : 10.08.2016                                      |
| Input voltage        | : DC 12 V from AC/DC Adapter with input 120V/60Hz |
| Operation mode       | : C   |
| Earthing             | : Not connected                                   |
| Ambient temperature  | : 25 °C   |
| Relative humidity    | : 56 %  |
| Atmospheric pressure | : 101 kPa   |

For the measurement records, refer to the appendix C.

## 6 Safety Human Exposure

### 6.1 Radio Frequency Exposure Compliance

#### 6.1.1 Electromagnetic Fields

**RESULT:**

**Pass**

**Test Specification**

Test standard : CFR47 FCC Part 2.1093  
RSS-102 Issue 5 March 2015

**Measurement Record:**

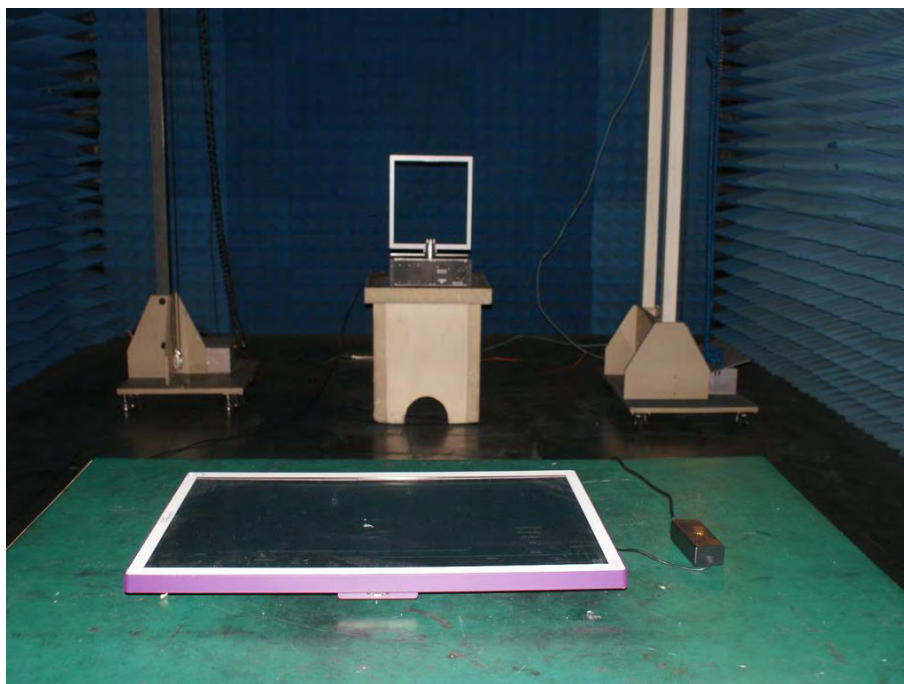
For the measurement records, refer to the sar report with report no.: 50052935 005

## 7 Photographs of the Test Set-Up

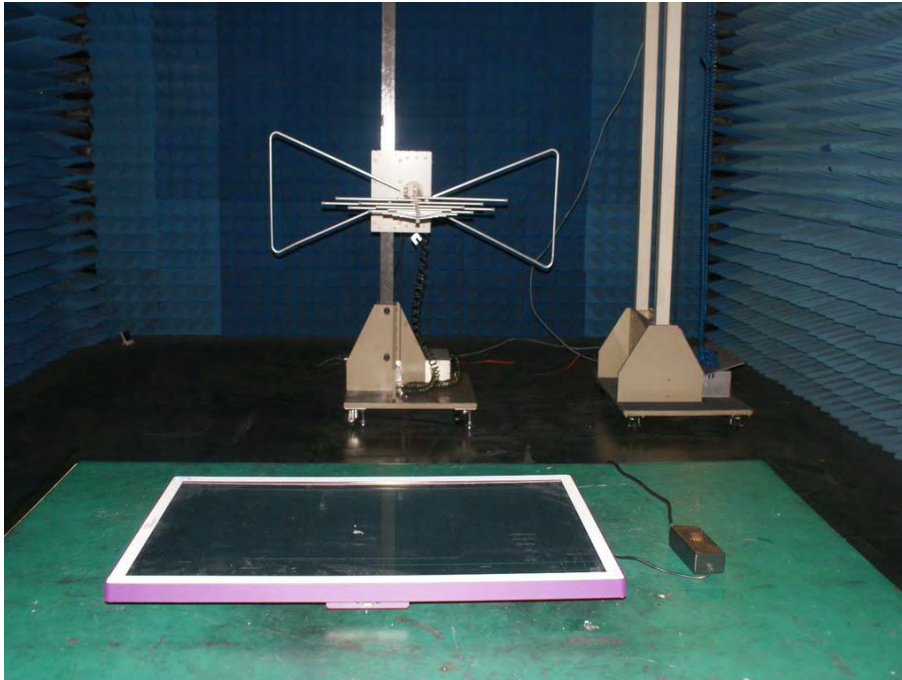
**Photograph 1: Set-up for Radio Spectrum Test**



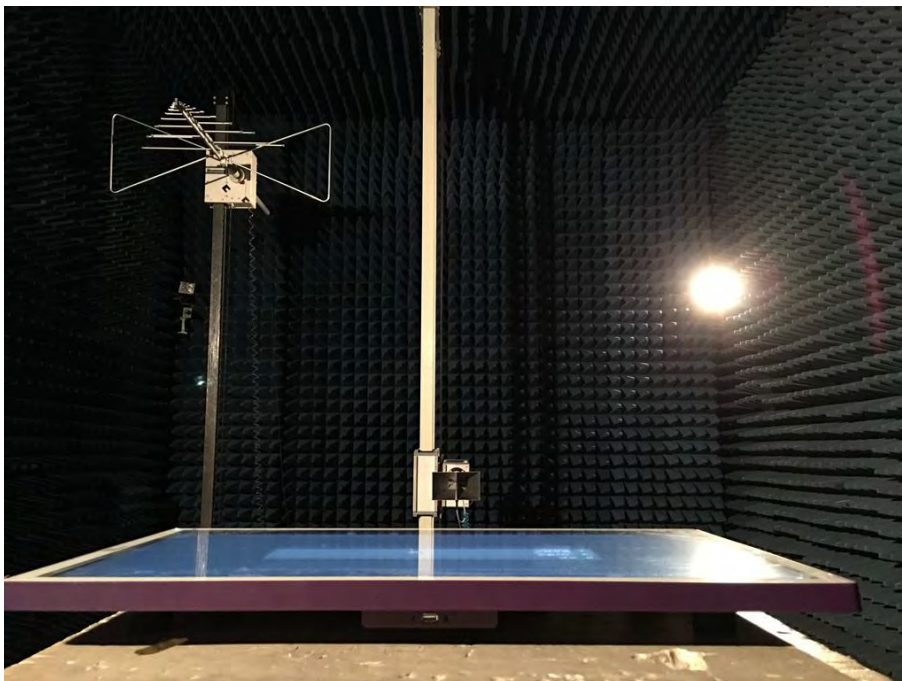
**Photograph 2: Set-up for Radiated Spurious Emission (9kHz ~ 30MHz)**



**Photograph 3: Set-up for Radiated Spurious Emission (30MHz~1GHz)**

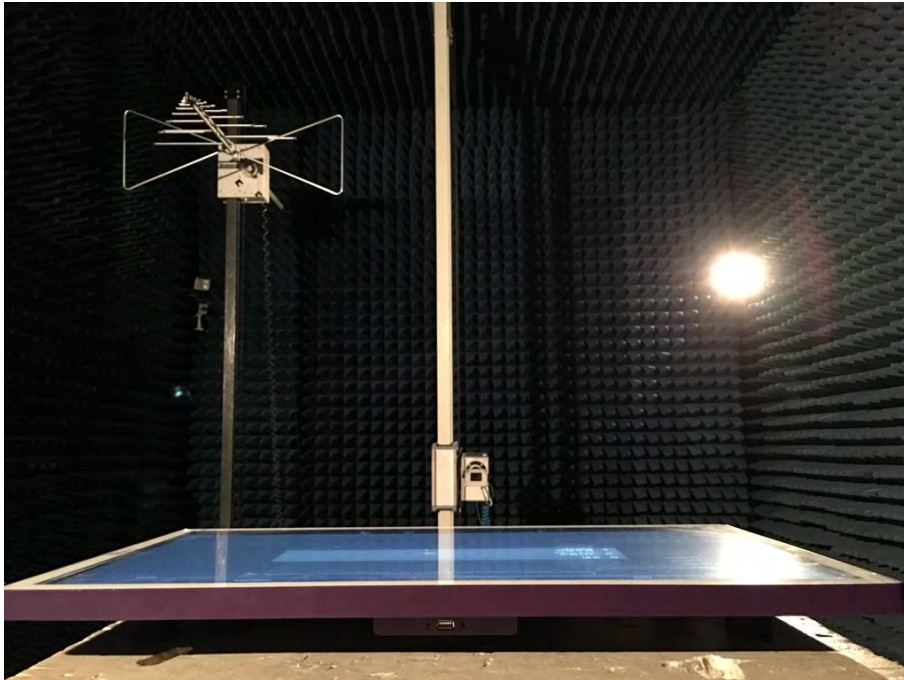


**Photograph 4: Set-up for Radiated Spurious Emission (1GHz ~ 18GHz)**





**Photograph 5: Set-up for Radiated Spurious Emission (18GHz ~ 26GHz)**



**Photograph 6: Set-up for Conducted Emission on AC Mains**



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## Appendix B

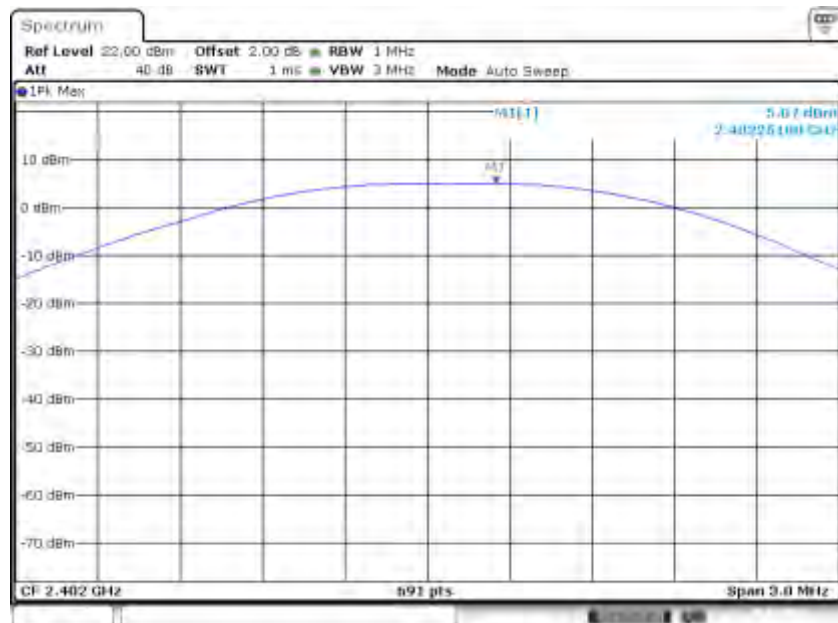
### Test Results of Bluetooth 4.1 (Dual mode) of Conducted Testing

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## Appendix B.1: Test Plots of Maximum Peak Conducted Output Power

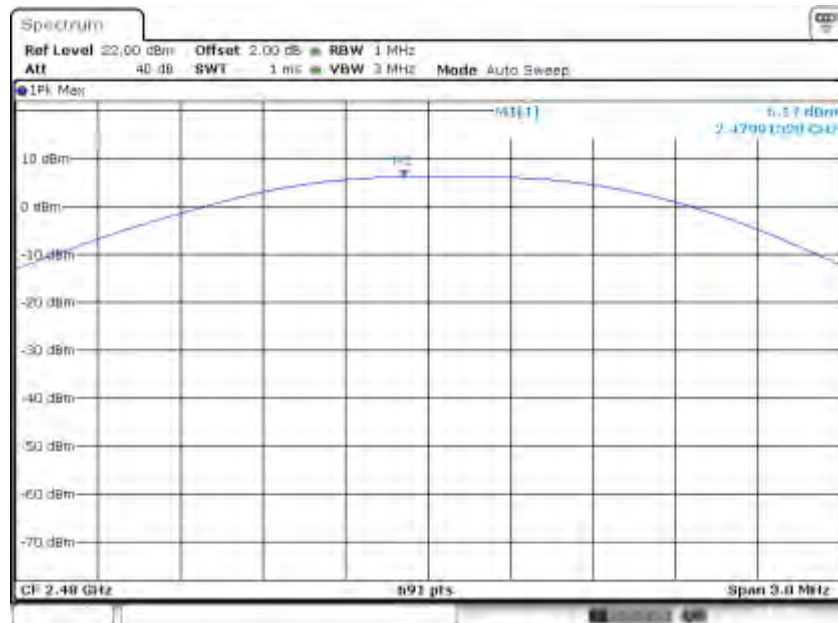
BDR Mode, DH1



Date: 29.JUL.2016 20:22:00

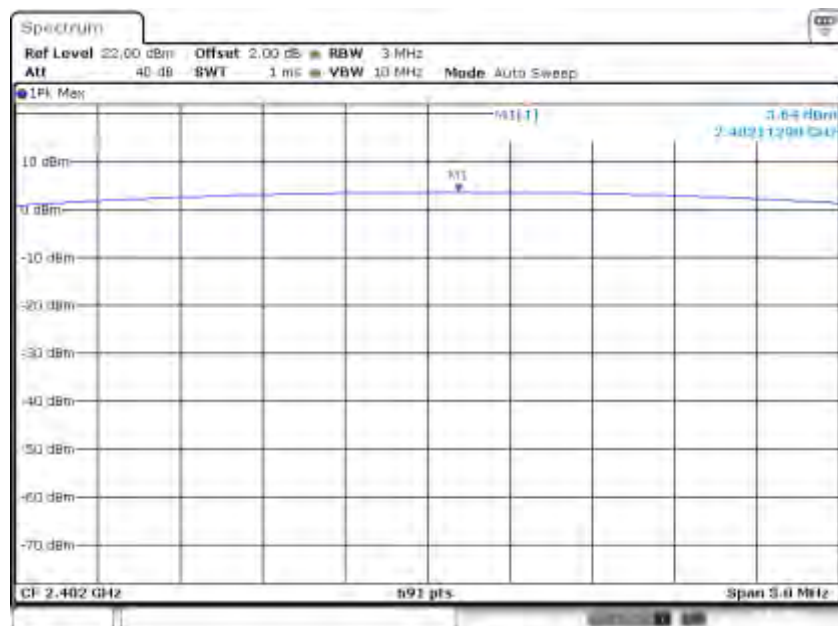


Date: 29.JUL.2016 20:22:38

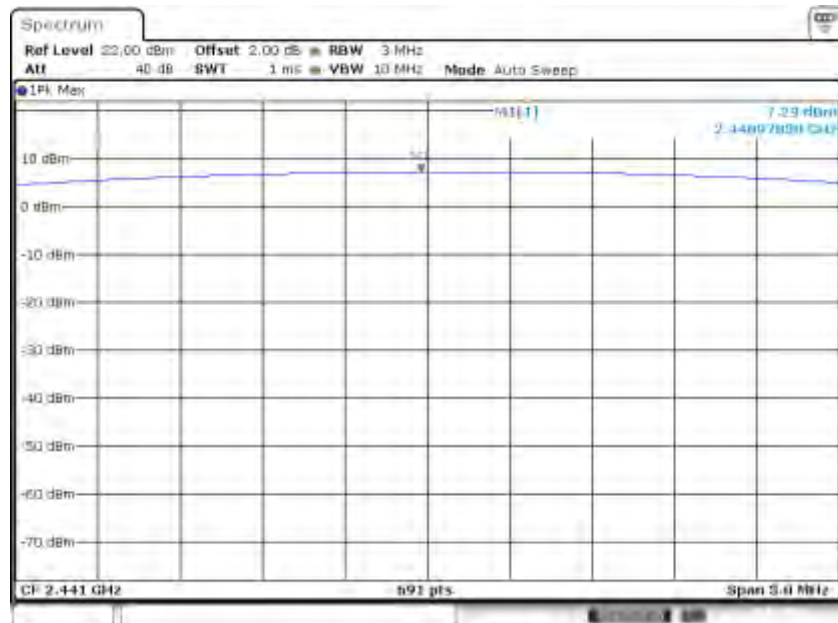


Date: 29.JUL.2016 20:23:20

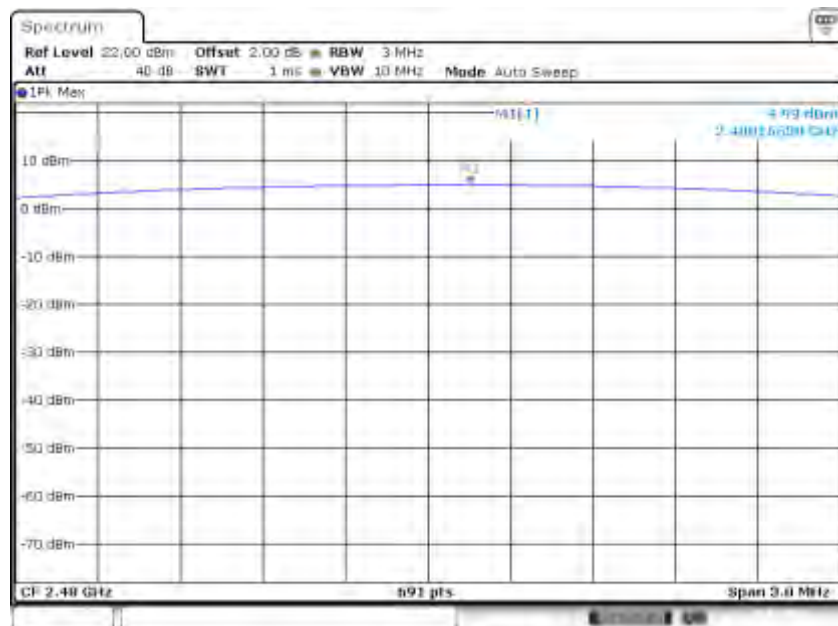
## EDR Mode, 3DH1



Date: 29.JUL.2016 20:24:52

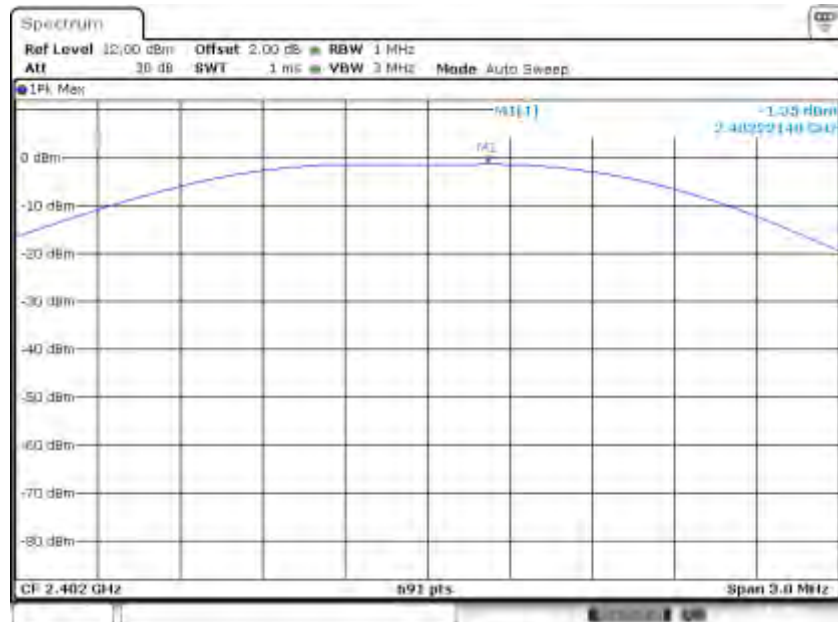


Date: 29.JUL.2016 20:24:22



Date: 29.JUL.2016 20:23:51

## Low Energy Mode



Date: 27.JUL.2016 16:25:04



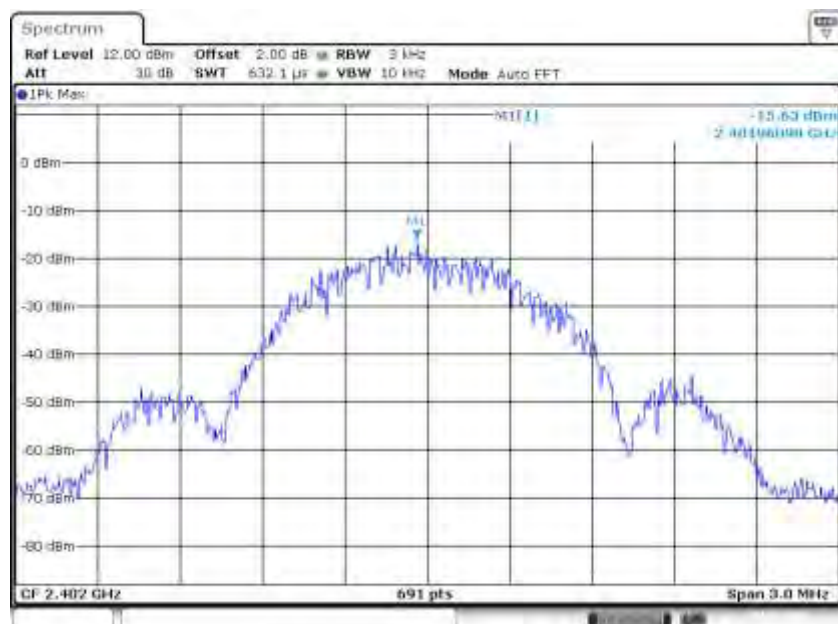
Date: 27.JUL.2016 16:25:48



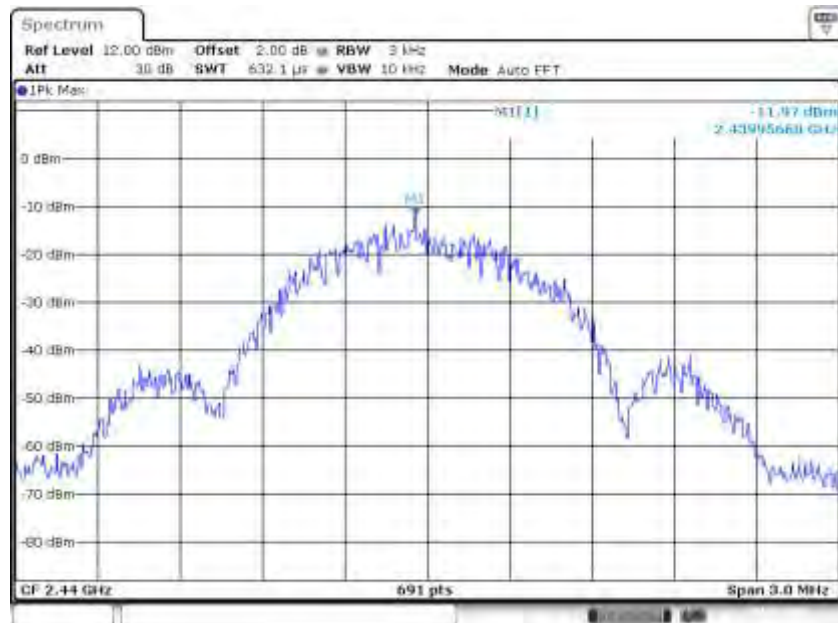
Date: 27.JUL.2016 16:26:37

## Appendix B.2: Test Plots of Conducted Power Spectral Density

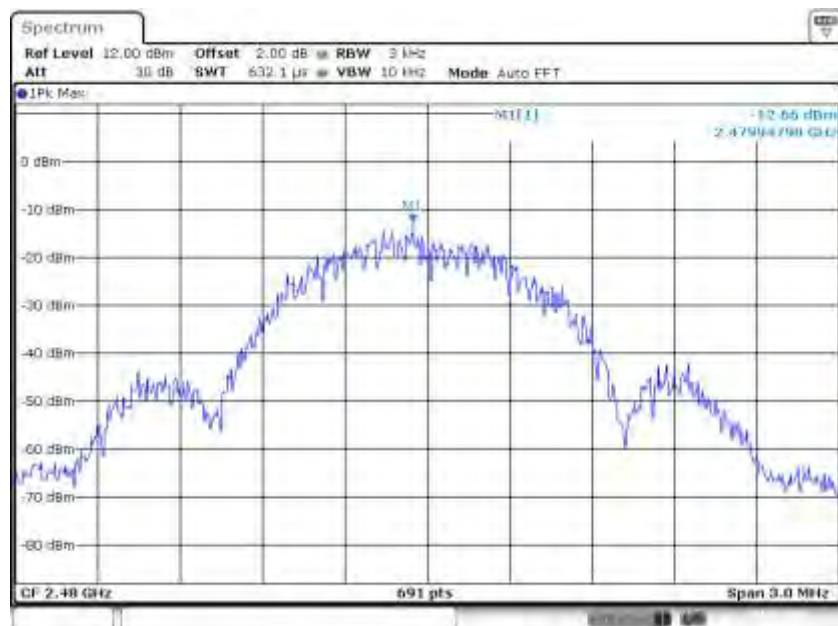
### Low Energy Mode



Date: 27.JUL.2016 16:28:33



Date: 27.JUL.2016 16:28:04



Date: 27.JUL.2016 16:27:22



## Appendix B.3: Test Plots of 6dB Bandwidth

### Low Energy Mode



Date: 27.JUL.2016 16:08:26



Date: 27.JUL.2016 16:09:53



## Appendix B.4: Test Plots of 99% Bandwidth

### BDR Mode, DH1







Date: 29.JUL.2016 20:19:59



Date: 29.JUL.2016 20:19:21

## EDR Mode, 3DH1



Date: 29.JUL.2016 20:16:37

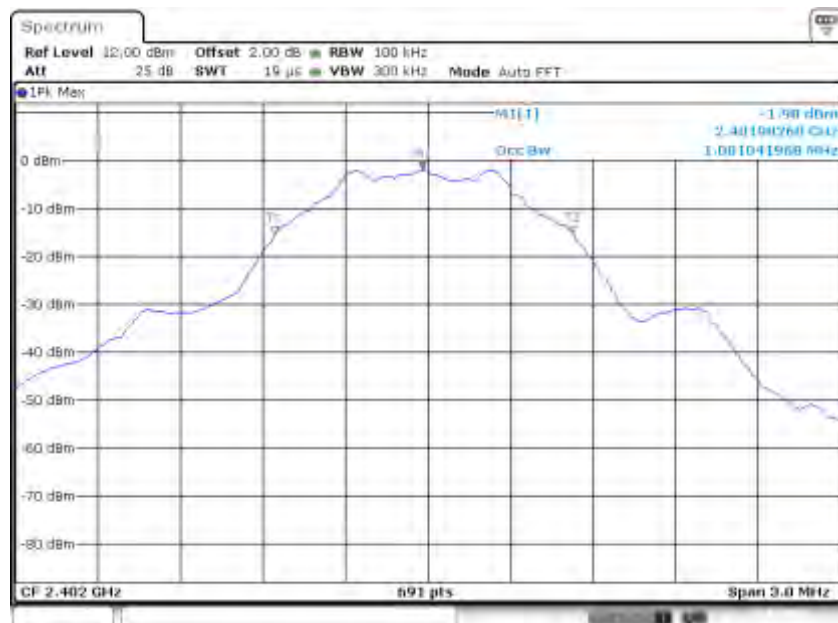


Date: 29.JUL.2016 20:17:12



Date: 29.JUL.2016 20:17:43

## Low Energy Mode



Date: 27.JUL.2016 16:13:55



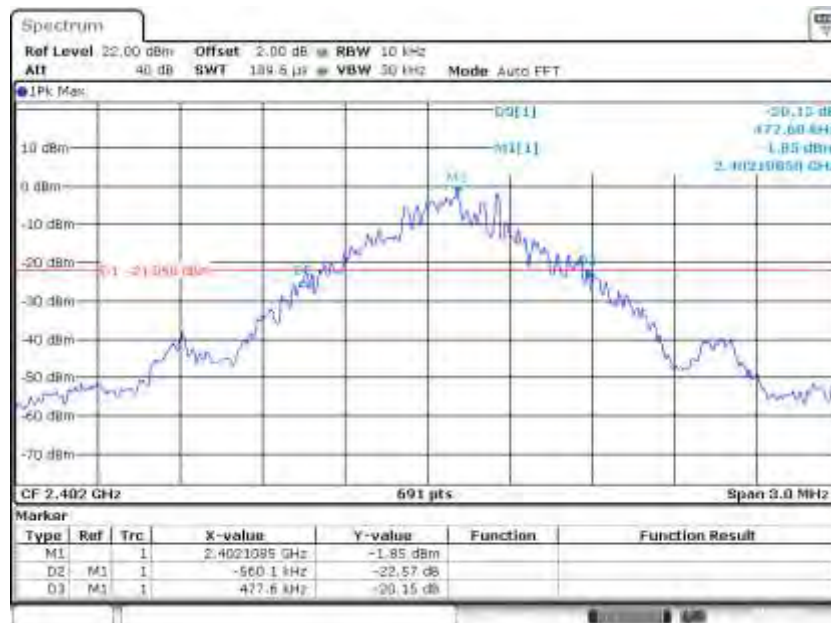
Date: 27.JUL.2016 16:13:15



Date: 27.JUL.2016 16:12:29

## Appendix B.5: Test Plots of 20dB Bandwidth

### BDR Mode, DH1

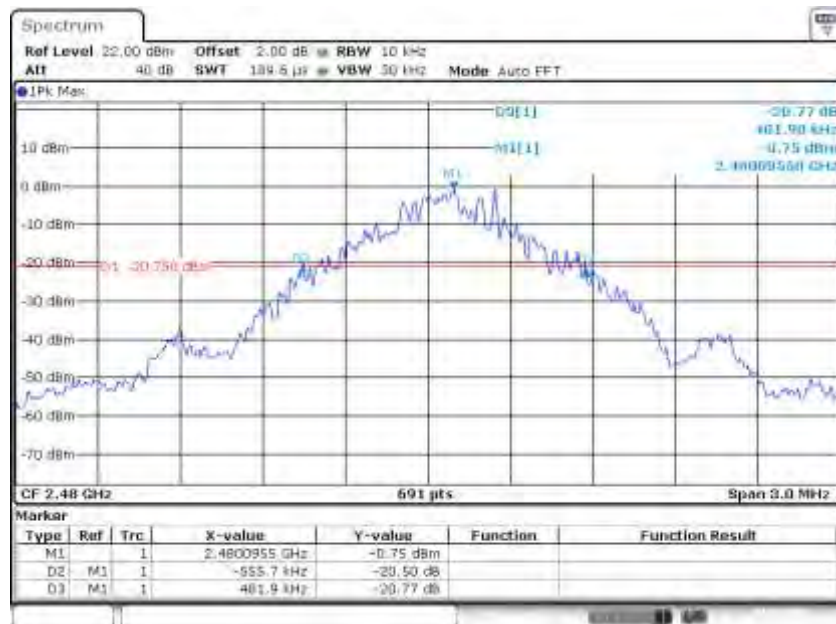


Date: 29.JUL.2016 20:06:44



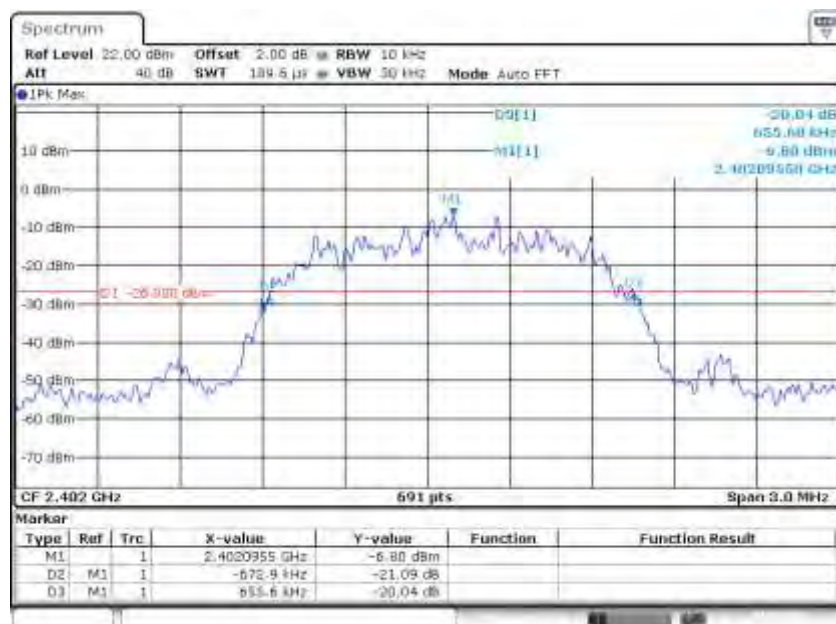
Date: 29.JUL.2016 20:08:52





Date: 29.JUL.2016 20:10:24

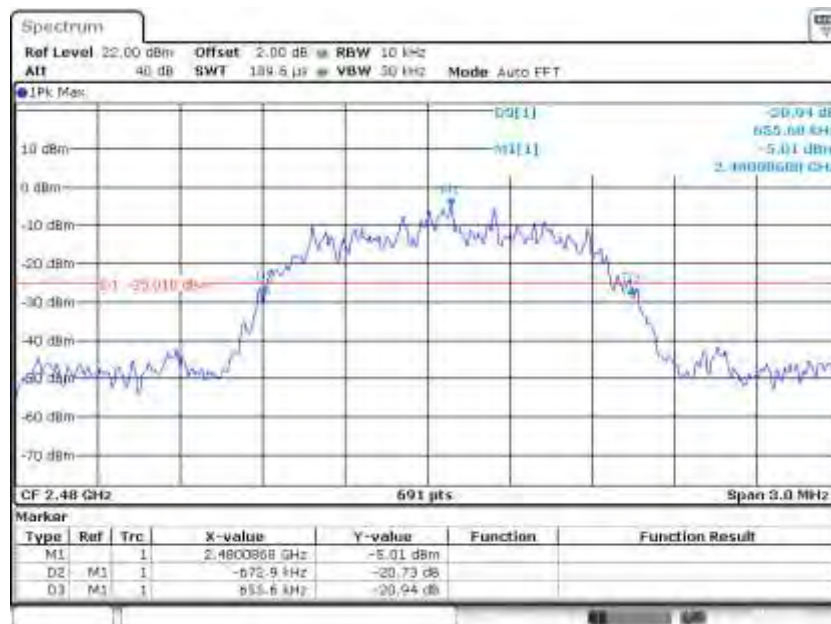
### EDR Mode, 3DH1



Date: 29.JUL.2016 20:15:49



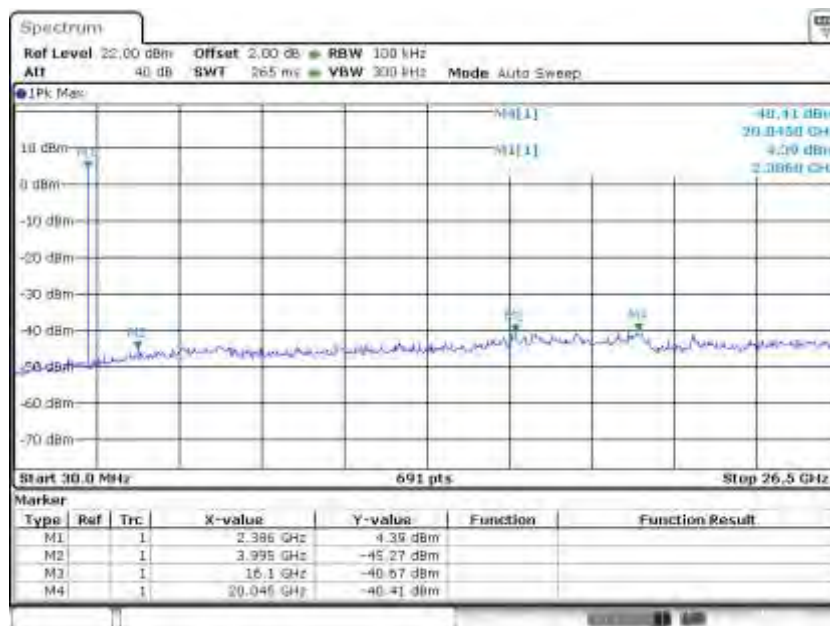
Date: 29.JUL.2016 20:14:01



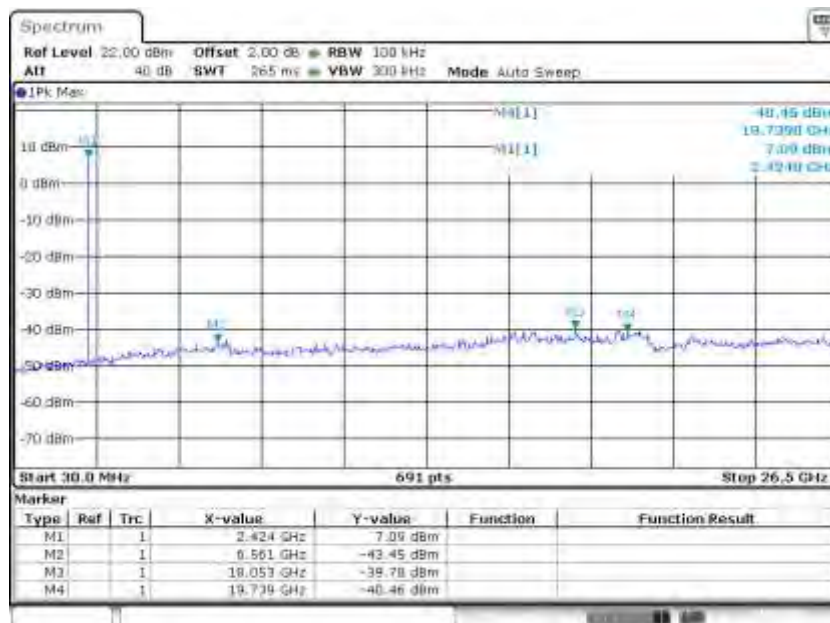
Date: 29.JUL.2016 20:12:15

## Appendix B.6: Test Plots of Conducted Spurious Emissions Measured in 100 kHz Bandwidth

BDR Mode, DH1

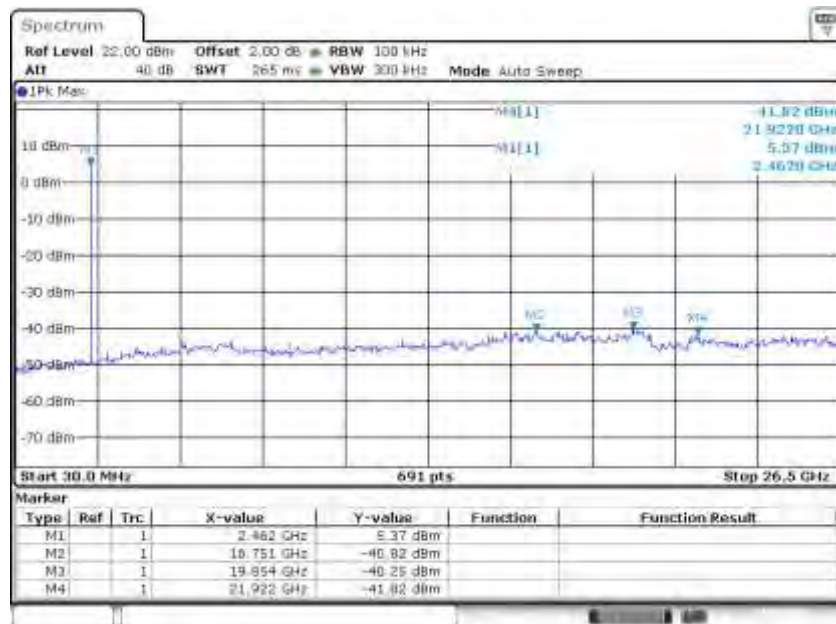


Date: 29.JUL.2016 20:31:31



Date: 29.JUL.2016 20:32:38



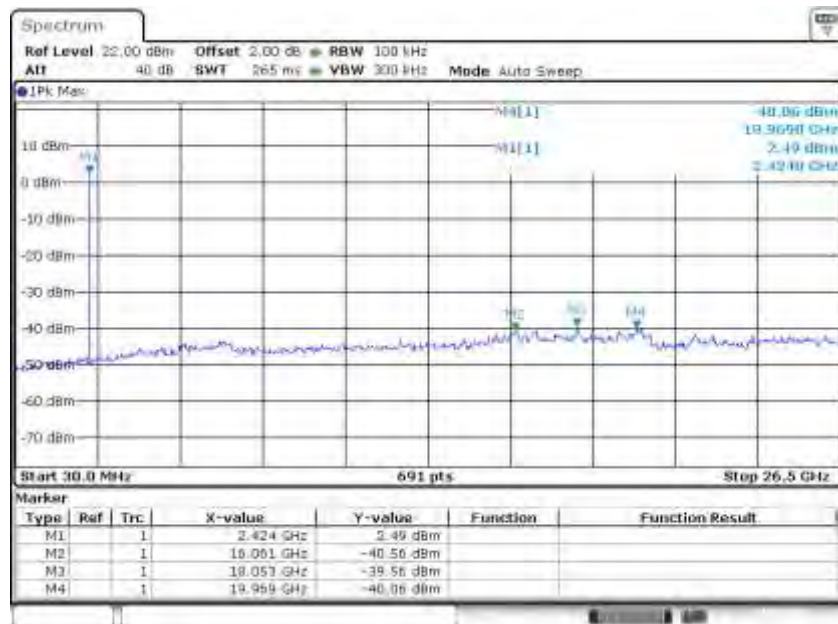


Date: 29.JUL.2016 20:33:42

## EDR Mode, 3DH1



Date: 29.JUL.2016 20:38:01



Date: 29.JUL.2016 20:36:32



Date: 29.JUL.2016 20:35:30

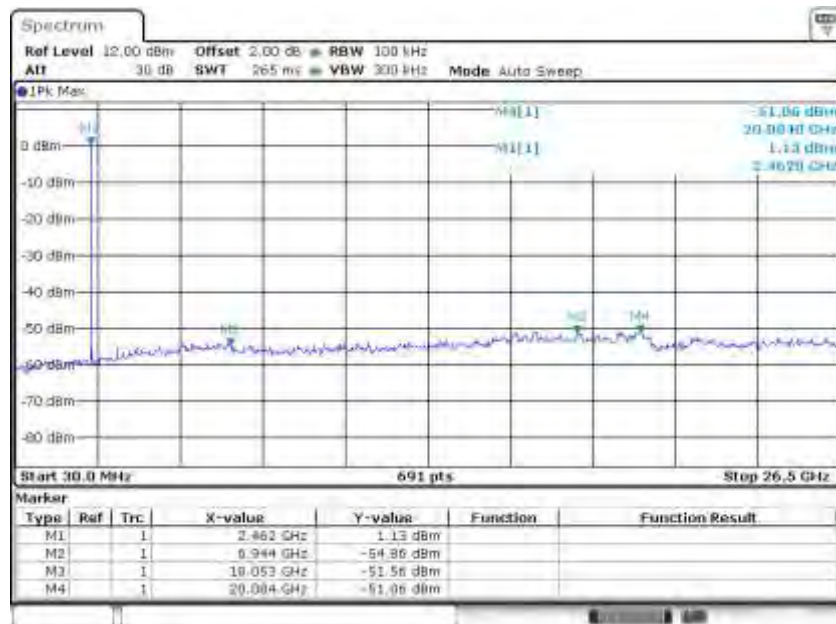
## Low Energy Mode



Date: 27.JUL.2016 16:23:36

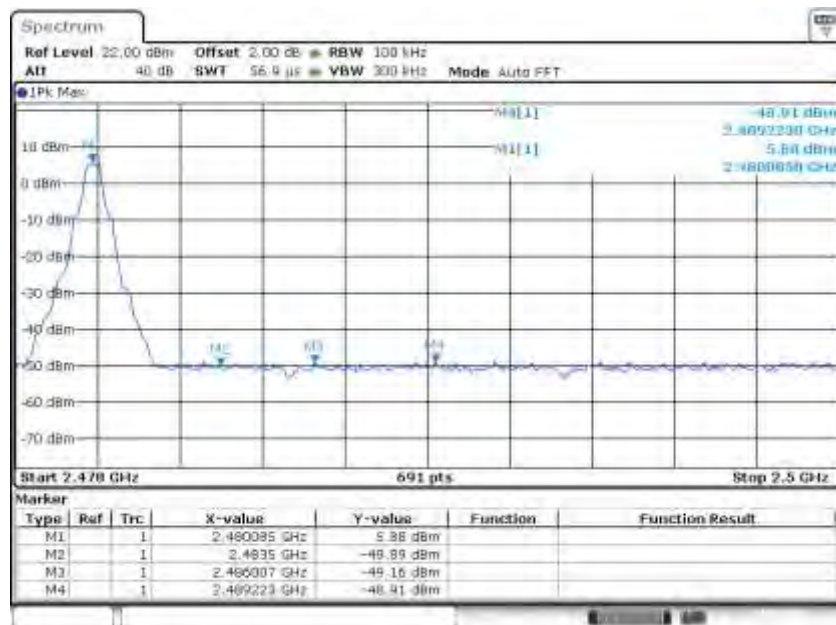


Date: 27.JUL.2016 16:22:09



Date: 27.JUL.2016 16:20:48

## BDR Mode, Band Edge



Date: 29.JUL.2016 20:28:58



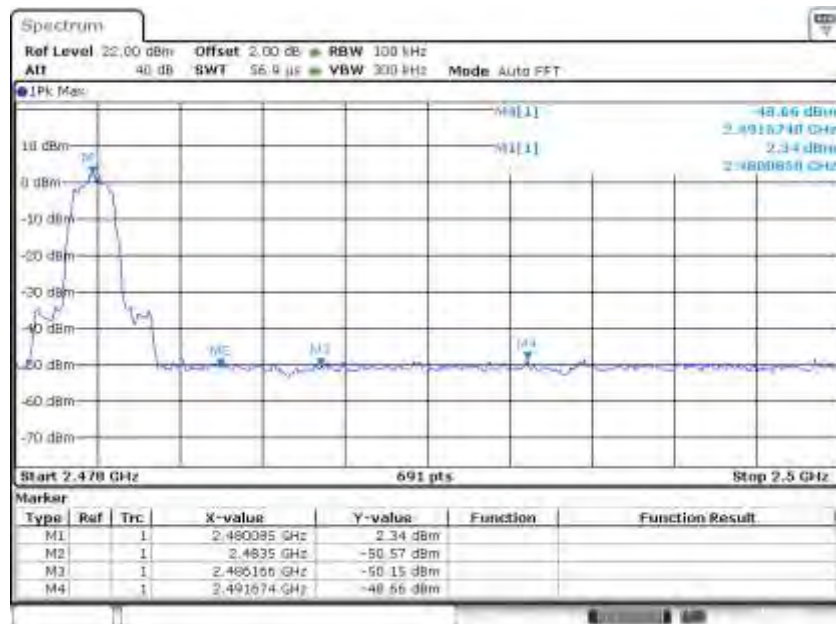
Date: 29.JUL.2016 20:30:05

## EDR Mode, Band Edge



Date: 29.JUL.2016 20:26:51





Date: 29.JUL.2016 20:28:07

### Low Energy Mode, Band Edge



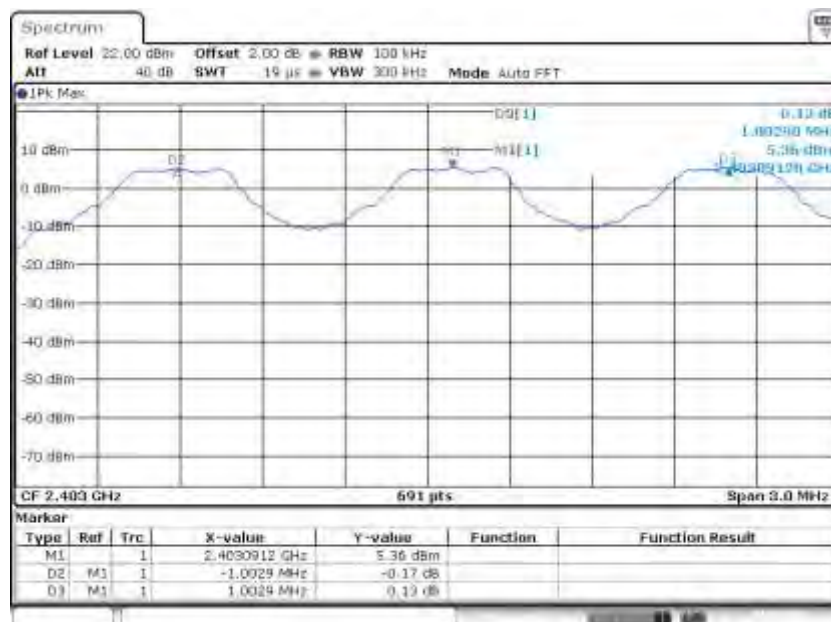
Date: 27.JUL.2016 16:16:34



Date: 27.JUL.2016 16:18:48

## Appendix B.7: Test Plots of Carrier Frequency Separation

### Hopping Mode



Date: 29.JUL.2016 20:02:02



Date: 29.JUL.2016 20:00:50

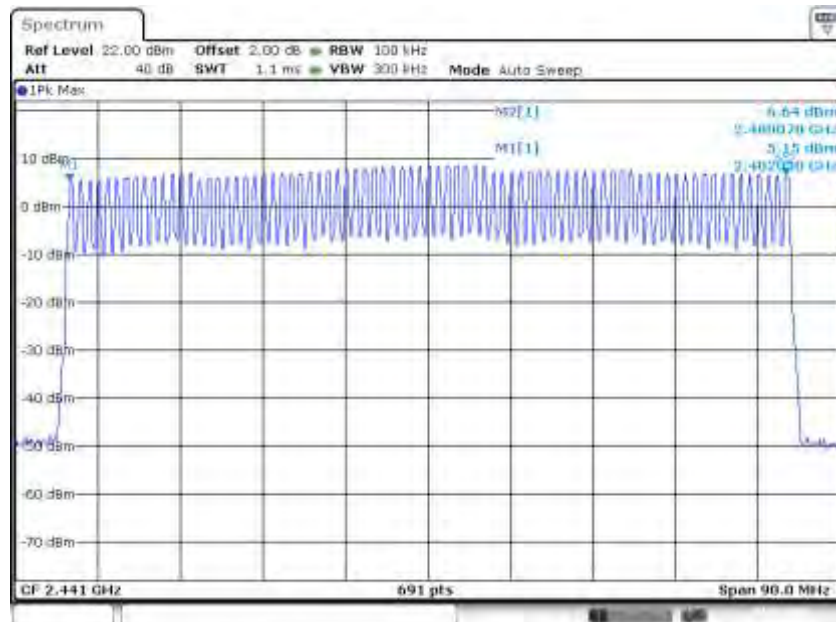


Date: 29.JUL.2016 20:02:58



## Appendix B.8: Test Plots of Number of Hopping Frequency

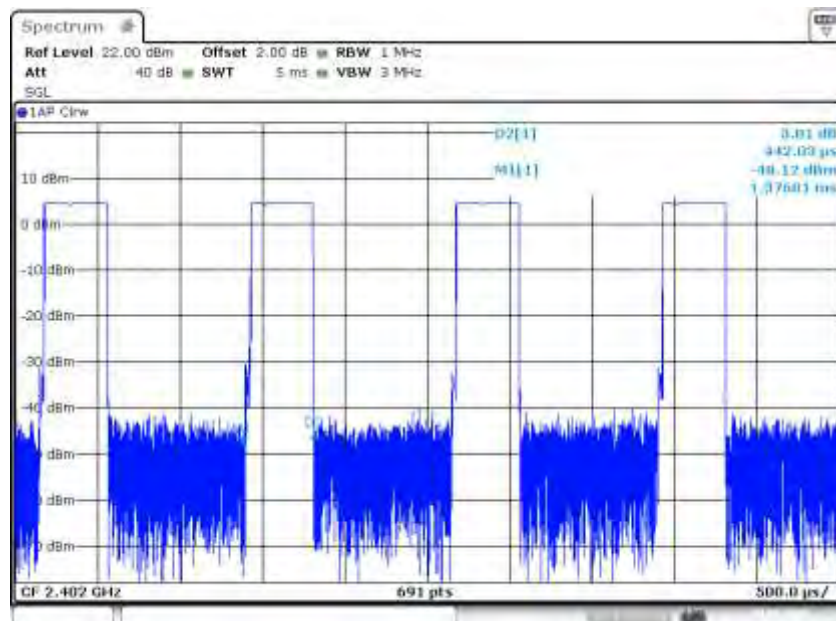
### Hopping Mode



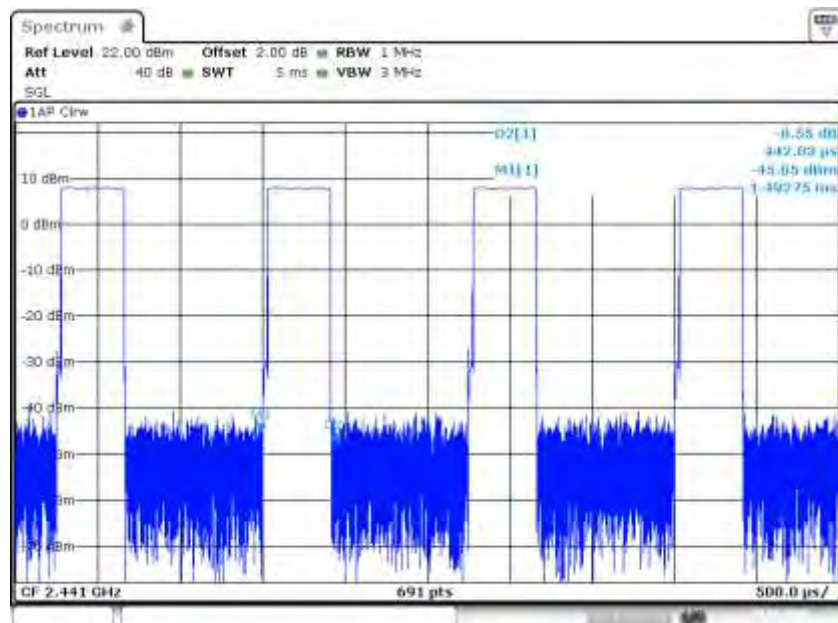
Date: 29.JUL.2016 19:59:13

## Appendix B.9: Test Plots of Time of Occupancy

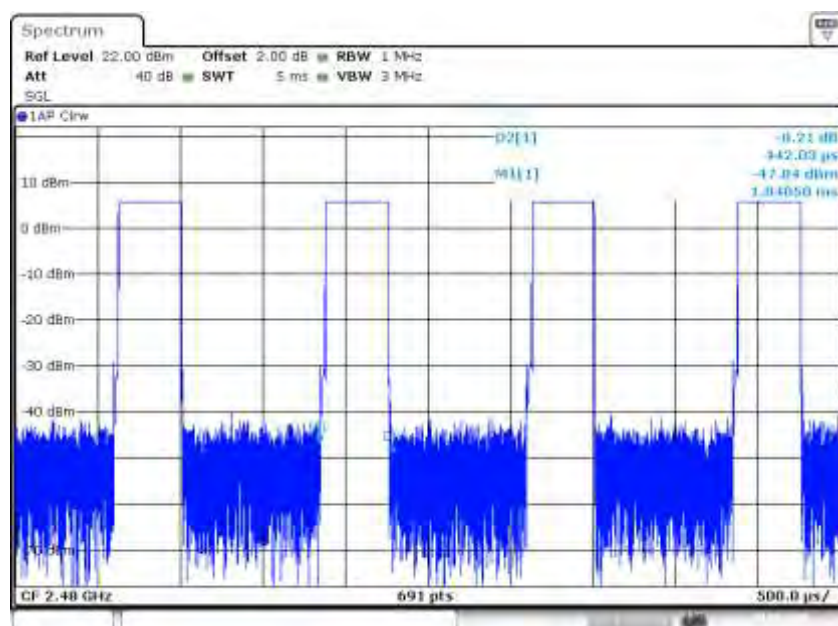
### BDR Mode, DH1



Date: 29.JUL.2016 20:58:23

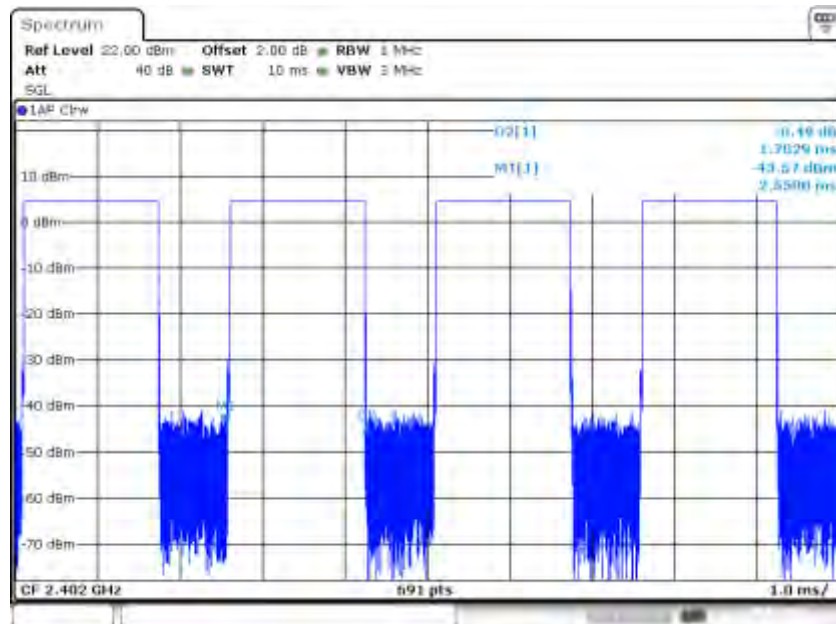


Date: 29.JUL.2016 20:57:38

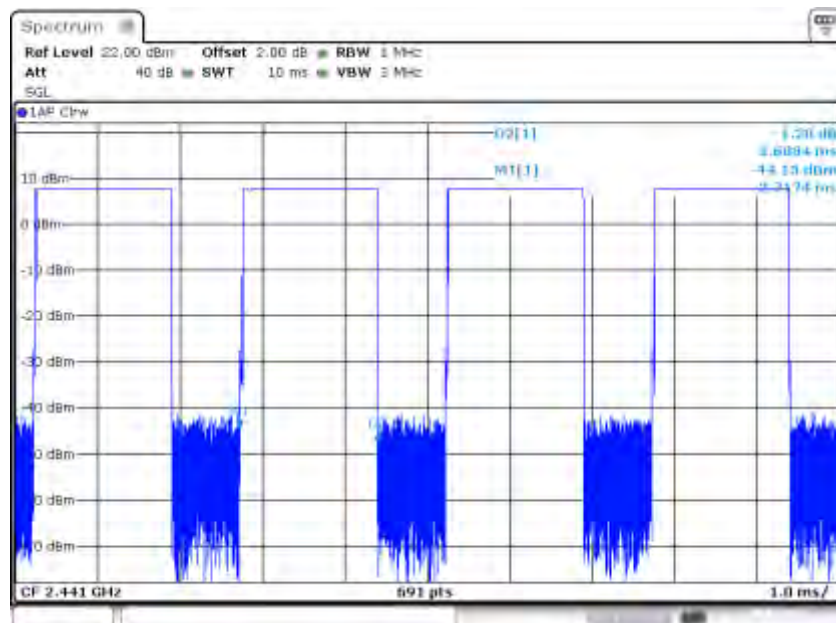


Date: 29.JUL.2016 20:57:00

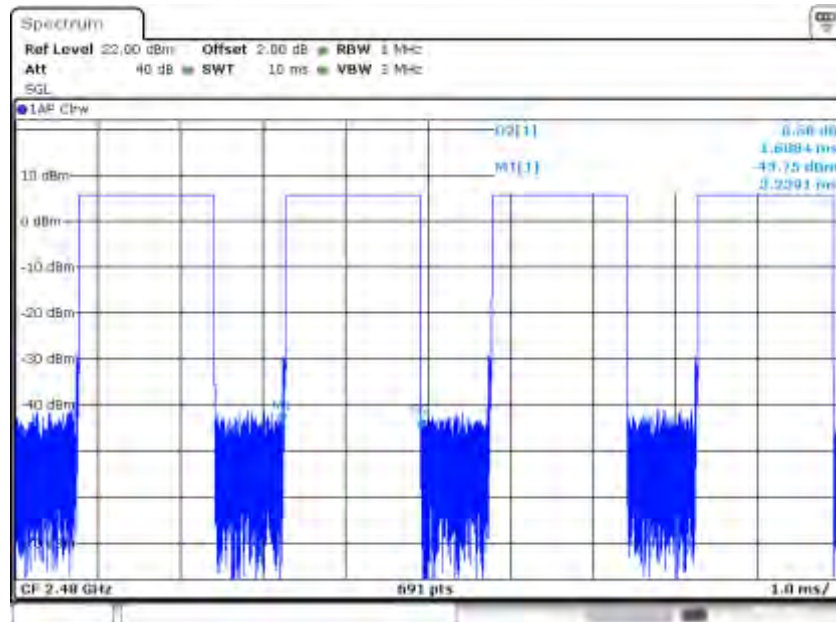
## BDR Mode, DH3



Date: 29.JUL.2016 20:54:36

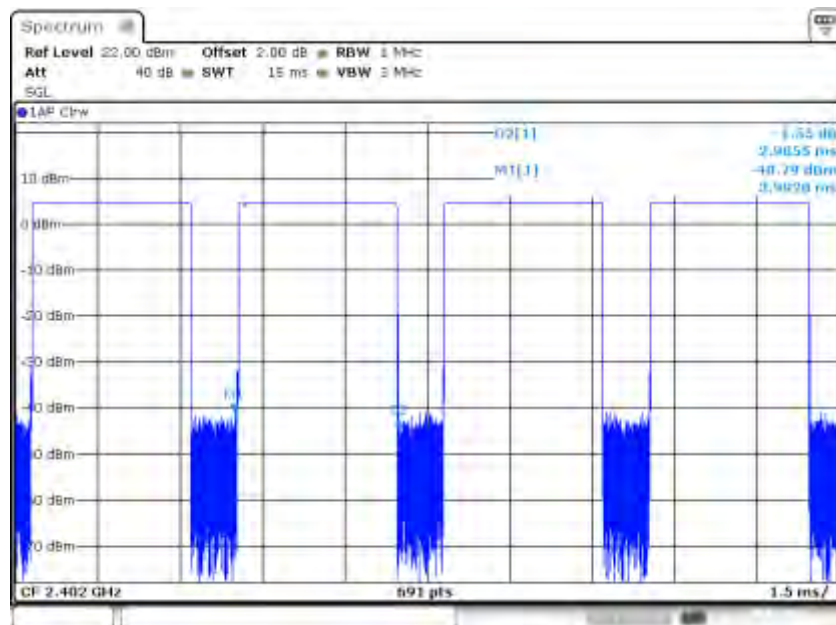


Date: 29.JUL.2016 20:55:26



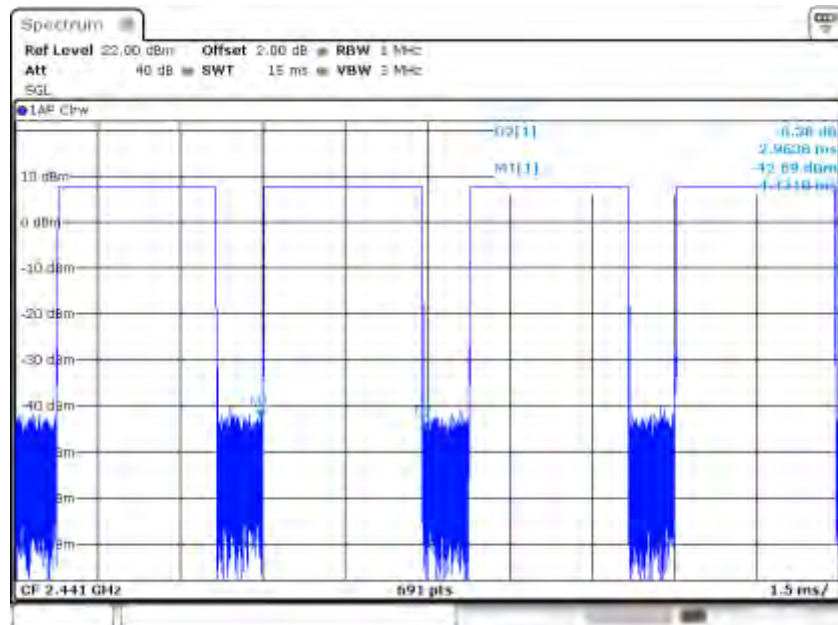
Date: 29.JUL.2016 20:56:05

## BDR Mode, DH5

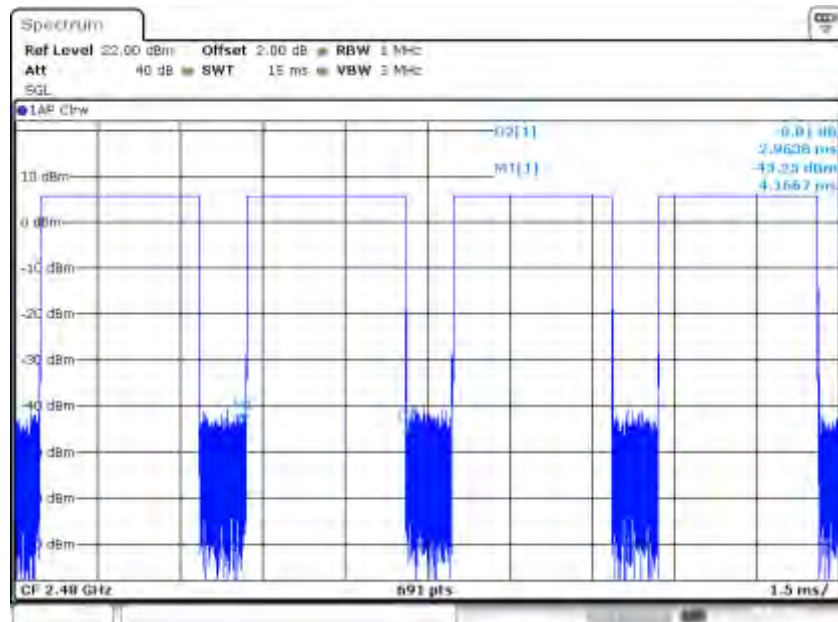


Date: 29.JUL.2016 20:53:26



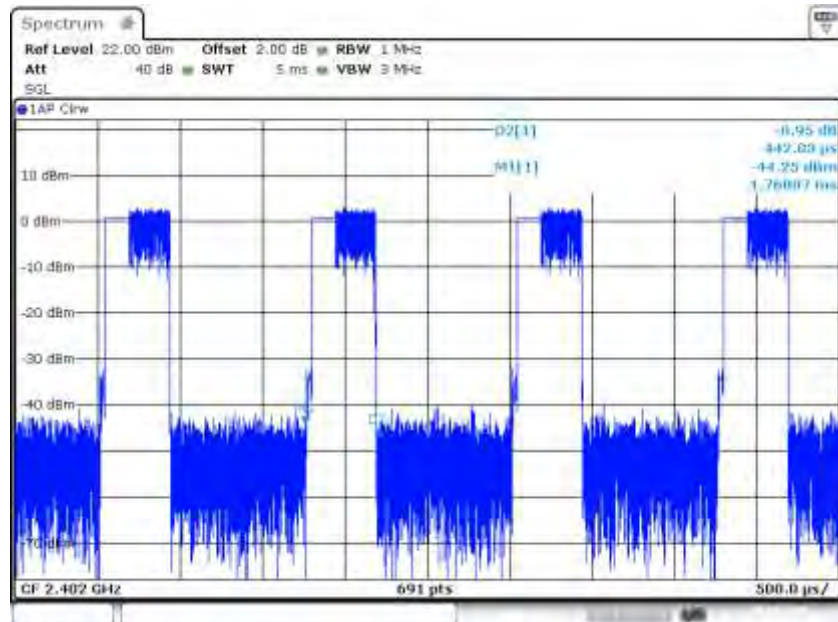


Date: 29.JUL.2016 20:52:51

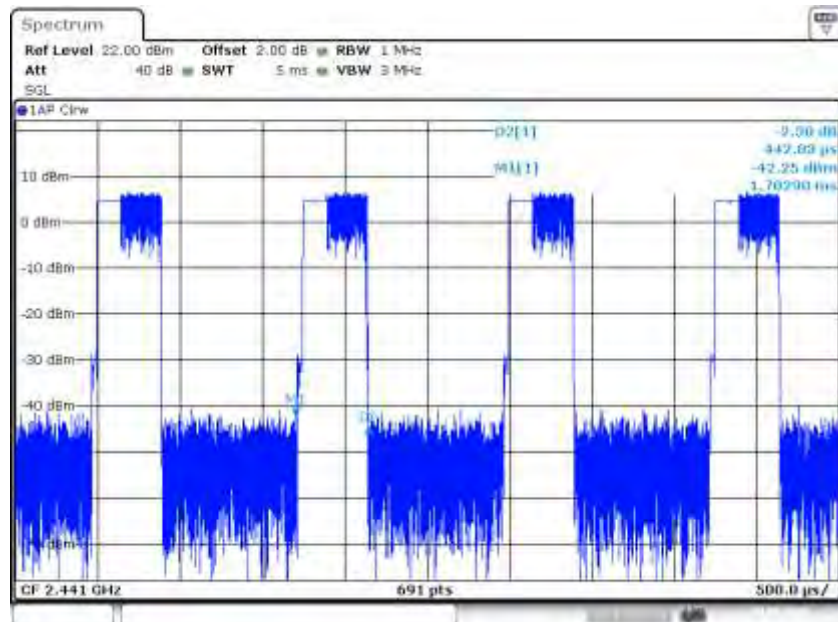


Date: 29.JUL.2016 20:51:46

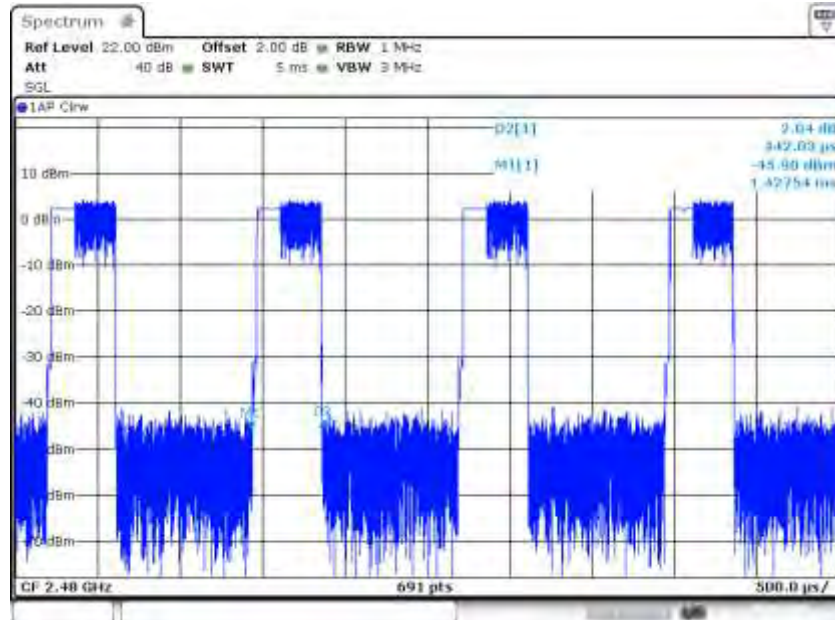
## EDR Mode, 3DH1



Date: 29.JUL.2016 20:46:18

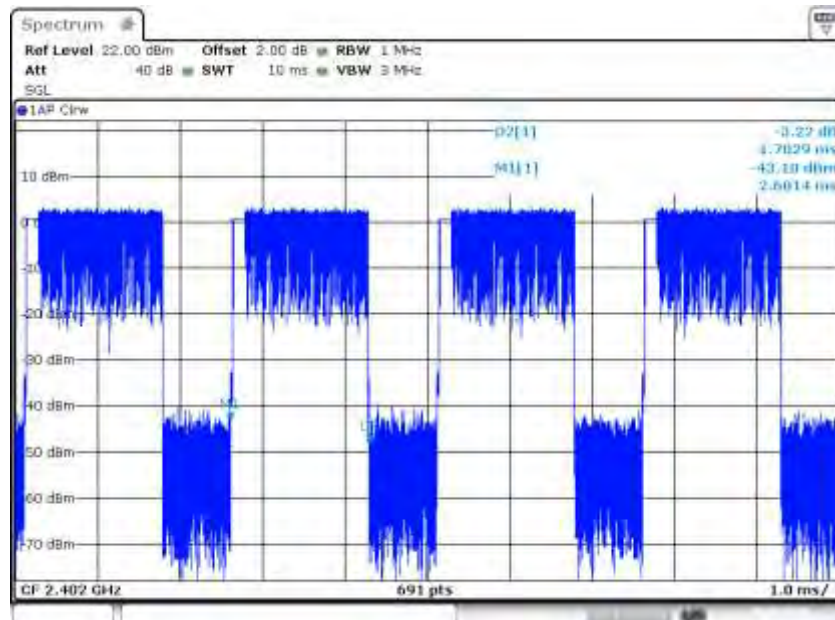


Date: 29.JUL.2016 20:45:29

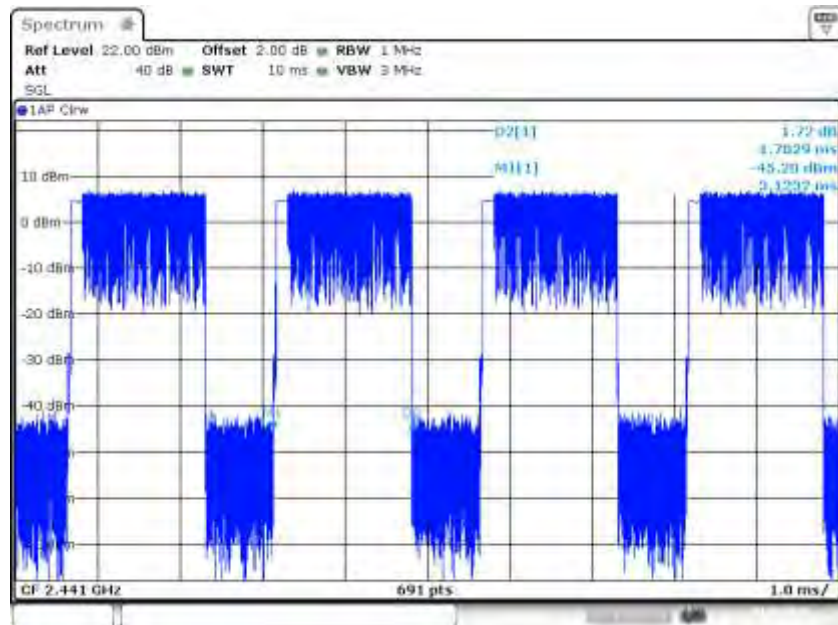


Date: 29.JUL.2016 20:46:58

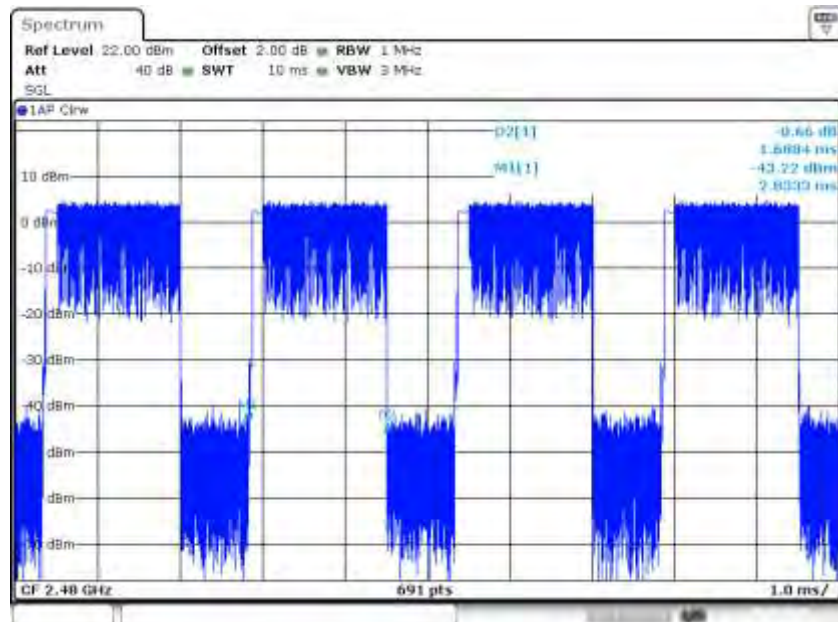
### EDR Mode, 3DH3



Date: 29.JUL.2016 20:48:58



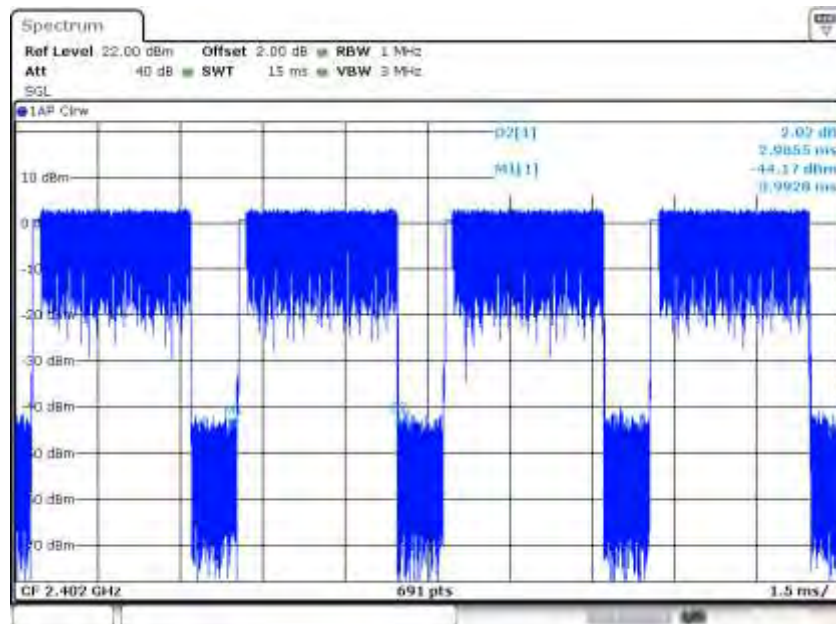
Date: 29.JUL.2016 20:48:19



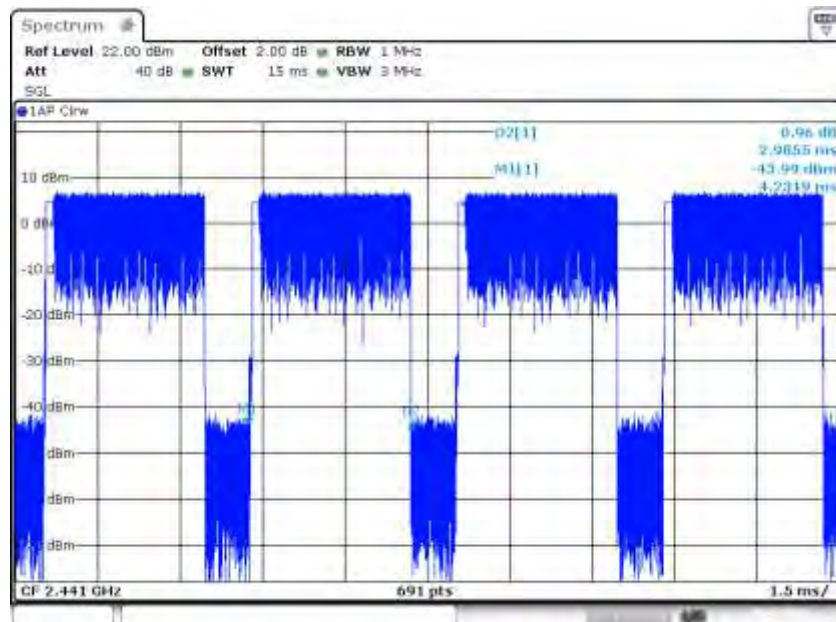
Date: 29.JUL.2016 20:47:40



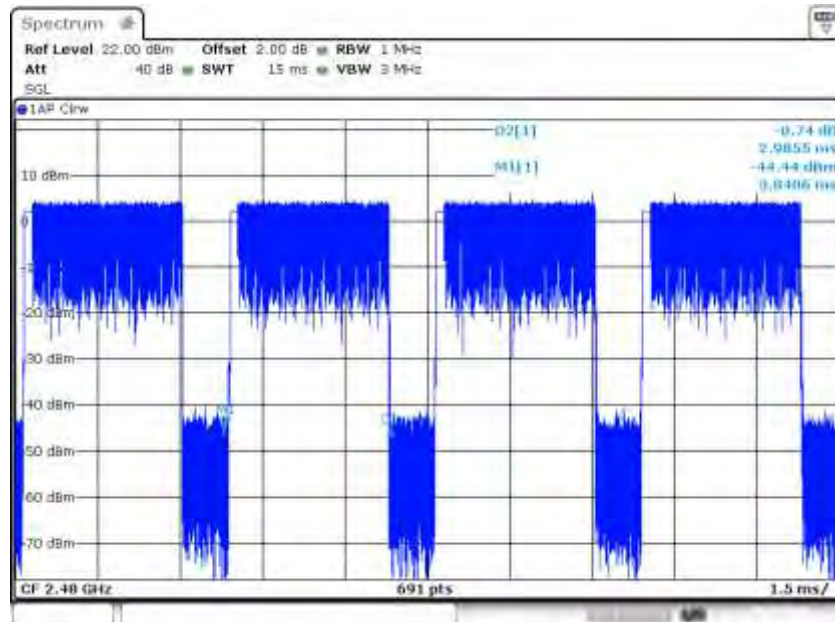
## EDR Mode, 3DH5



Date: 29.JUL.2016 20:49:47



Date: 29.JUL.2016 20:50:19



Date: 29.JUL.2016 20:50:56

## Appendix C

### Test Results of Bluetooth 4.1 (Dual mode) of Conducted and Radiated Emission Testing

|  |    |
|--|----|
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Note: The measurements with active loop antenna were greater than 20dB below the limit, so Radiated Spurious Emissions (9kHz – 30MHz) tests were applied on BDR mode only.

## Appendix C.1: Test Plots of Radiated Spurious Emission

### BDR mode, 9KHz - 30MHz

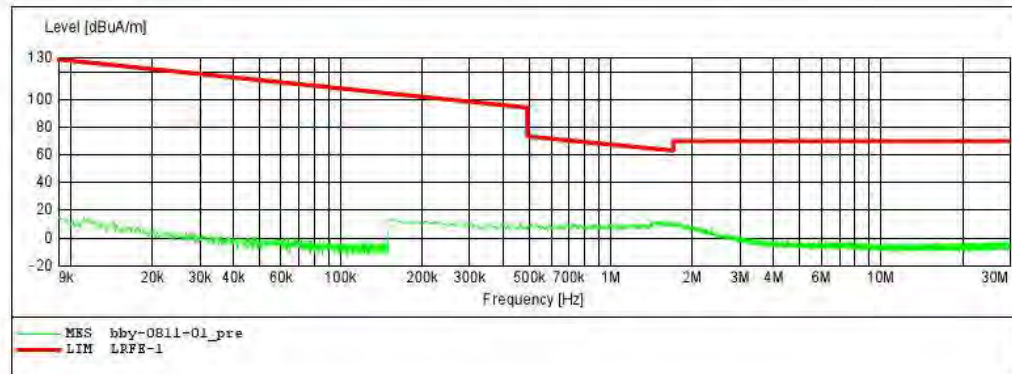
**ACCURATE TECHNOLOGY CO., LTD**

#### **FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
Manufacturer: ContextMedia LLC  
Operating Condition: TX 2402MHz (Bluetooth)  
Test Site: 2# Chamber  
Operator: PEI  
Test Specification: AC 120V/60Hz  
Comment: X  
Start of Test: 2016-8-11 /

#### **SCAN TABLE: "LFRE Fin"**

| Short Description: |           |          | _SUB STD VTERM2 1.70 |            |           |            |
|--------------------|-----------|----------|----------------------|------------|-----------|------------|
| Start              | Stop      | Step     | Detector             | Meas. Time | IF Bandw. | Transducer |
| 9.0 kHz            | 150.0 kHz | 100.0 Hz | QuasiPeak            | 1.0 s      | 200 Hz    | 1516M      |
| 150.0 kHz          | 30.0 MHz  | 5.0 kHz  | QuasiPeak            | 1.0 s      | 9 kHz     | 1516M      |



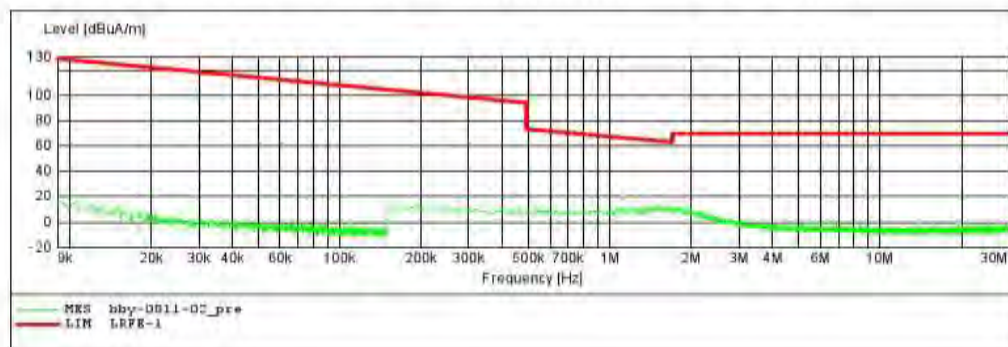
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
 Manufacturer: ContextMedia LLC  
 Operating Condition: TX 2402MHz (Bluetooth)  
 Test Site: 2# Chamber  
 Operator: PEI  
 Test Specification: AC 120V/60Hz  
 Comment: Y  
 Start of Test: 2016-8-11 /

**SCAN TABLE: "LFRE Fin"**

| Start     | Stop      | Step     | Detector  | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|------------|
| 9.0 kHz   | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s      | 200 Hz    | 1516M      |
| 150.0 kHz | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s      | 9 kHz     | 1516M      |



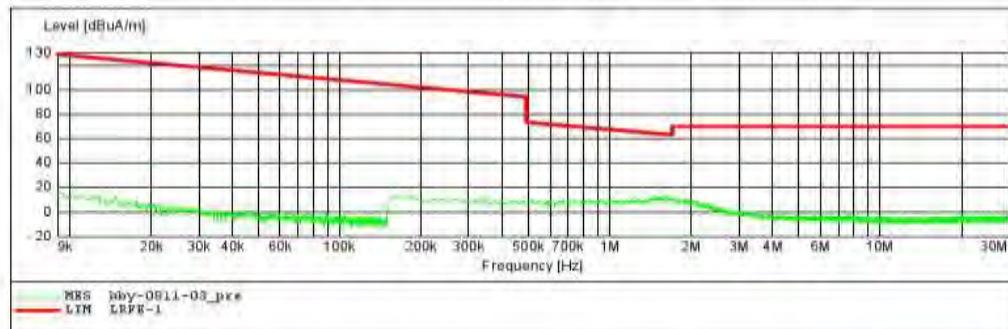
**ACCURATE TECHNOLOGY CO.,LTD**

**FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
 Manufacturer: ContextMedia LLC  
 Operating Condition: TX 2402MHz (Bluetooth)  
 Test Site: 2# Chamber  
 Operator: PEI  
 Test Specification: AC 120V/60Hz  
 Comment: Z  
 Start of Test: 2016-8-11 /

**SCAN TABLE: "LFRE Fin"**

| Start     | Stop      | Step     | Detector  | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|------------|
| 9.0 kHz   | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s      | 200 Hz    | 1516M      |
| 150.0 kHz | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s      | 9 kHz     | 1516M      |





BDR mode, 30MHz - 1GHz



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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2376

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

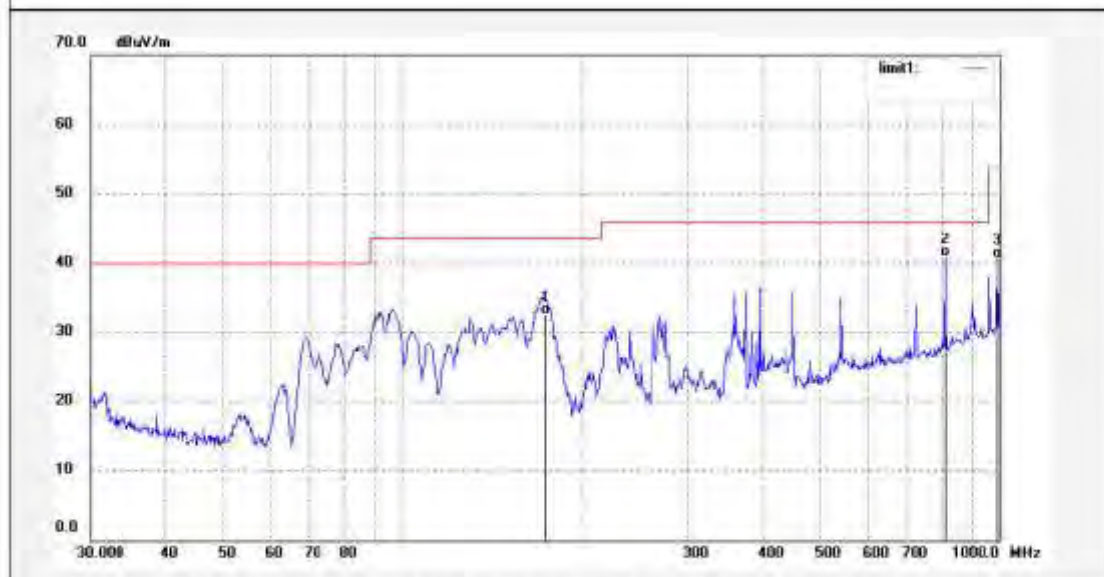
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 173.2050    | 46.15            | -13.65      | 32.50           | 43.50          | -11.00      | QP       |             |               |        |
| 2   | 810.2653    | 40.64            | 0.19        | 40.83           | 46.00          | -5.17       | QP       |             |               |        |
| 3   | 993.0113    | 38.04            | 2.73        | 40.77           | 54.00          | -13.23      | QP       |             |               |        |



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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2377

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%) 23 C / 48 %

EUT: ContextMedia Health

Model: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

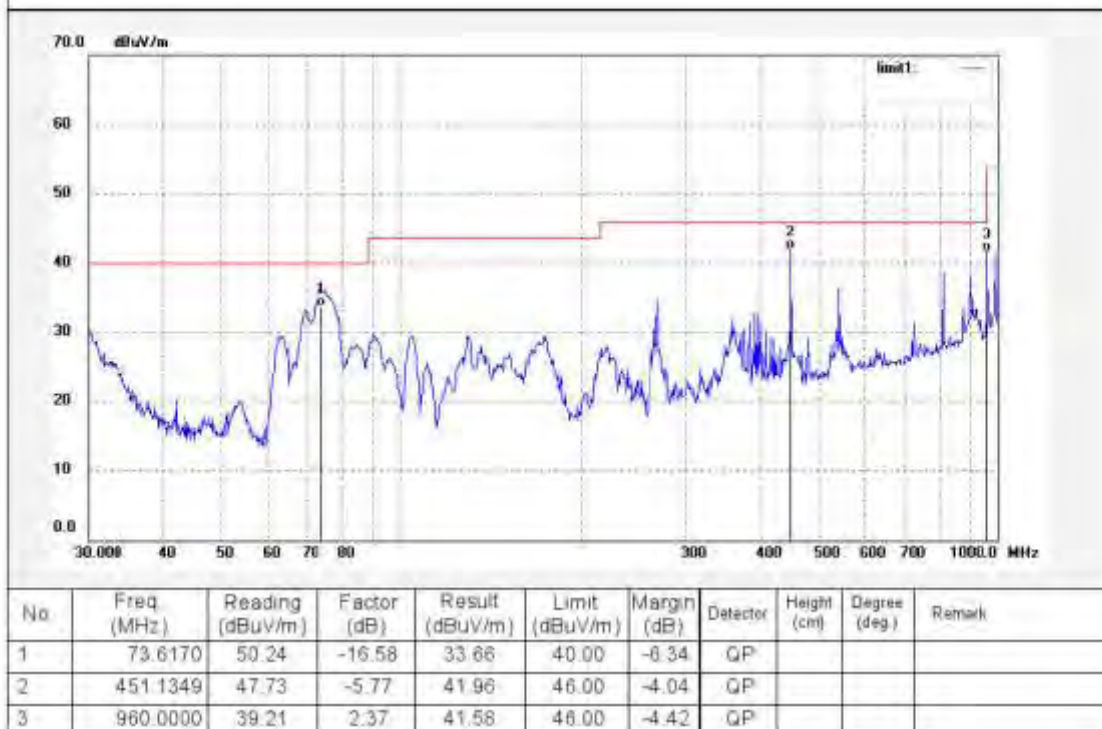
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2378

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2441MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

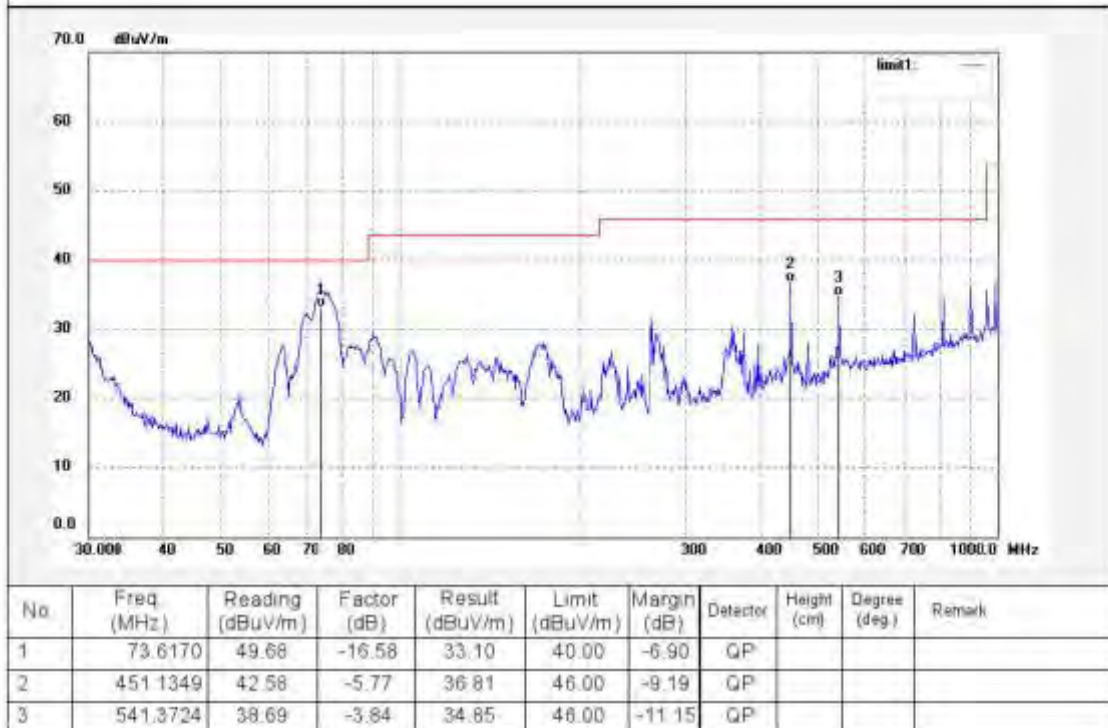
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth







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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2379

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2441MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

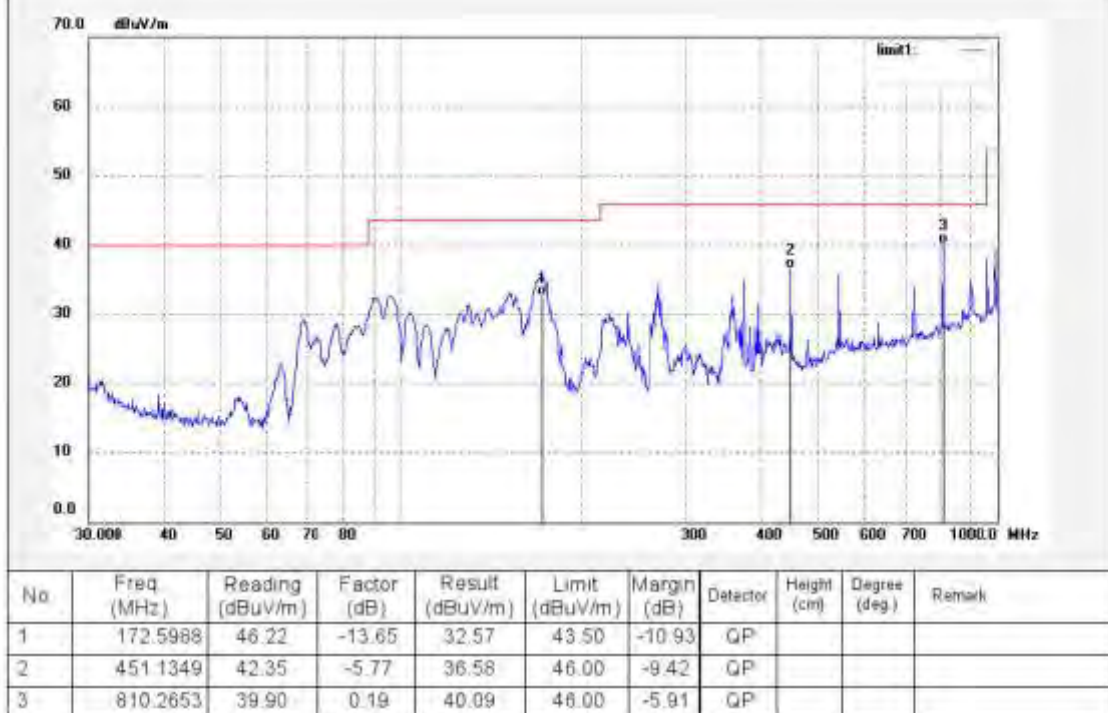
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2380

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

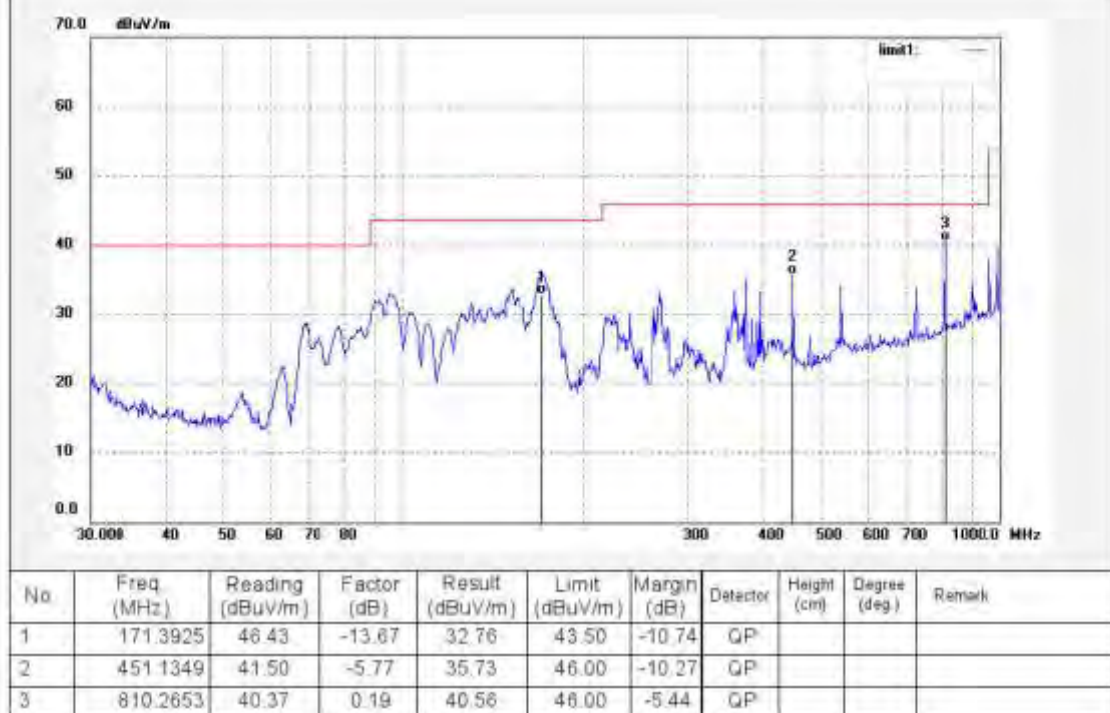
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2381

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

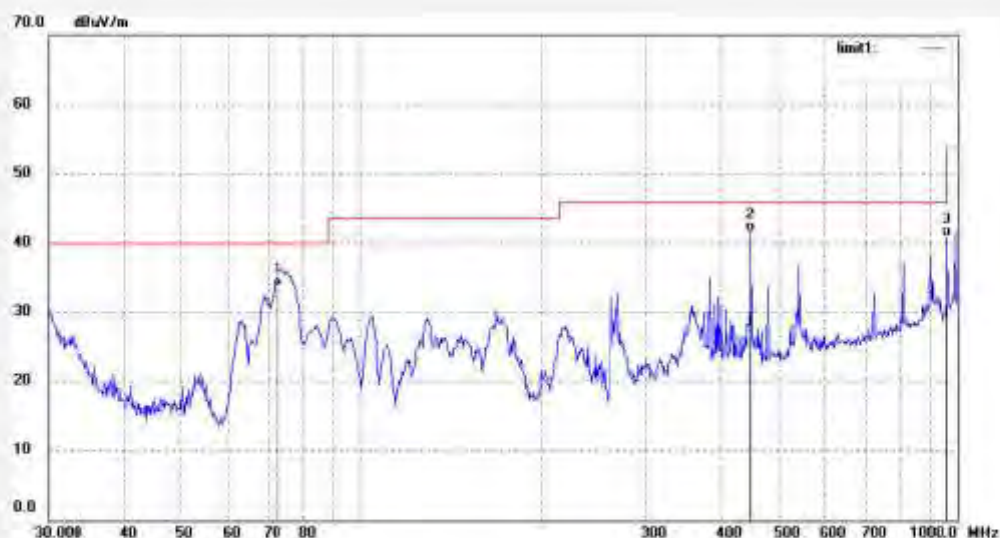
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 72.5916    | 50.08            | -16.44      | 33.64           | 40.00          | -6.36       | QP       |             |               |        |
| 2   | 451.1349   | 47.33            | -5.77       | 41.56           | 46.00          | -4.44       | QP       |             |               |        |
| 3   | 960.0000   | 38.46            | 2.37        | 40.83           | 46.00          | -5.17       | QP       |             |               |        |

BDR mode, 1GHz - 18GHz



ACCURATE TECHNOLOGY CO., LTD.

F1.Bldg A Changyuan New Material Port Keyuan Rd.  
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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2222

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Model: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

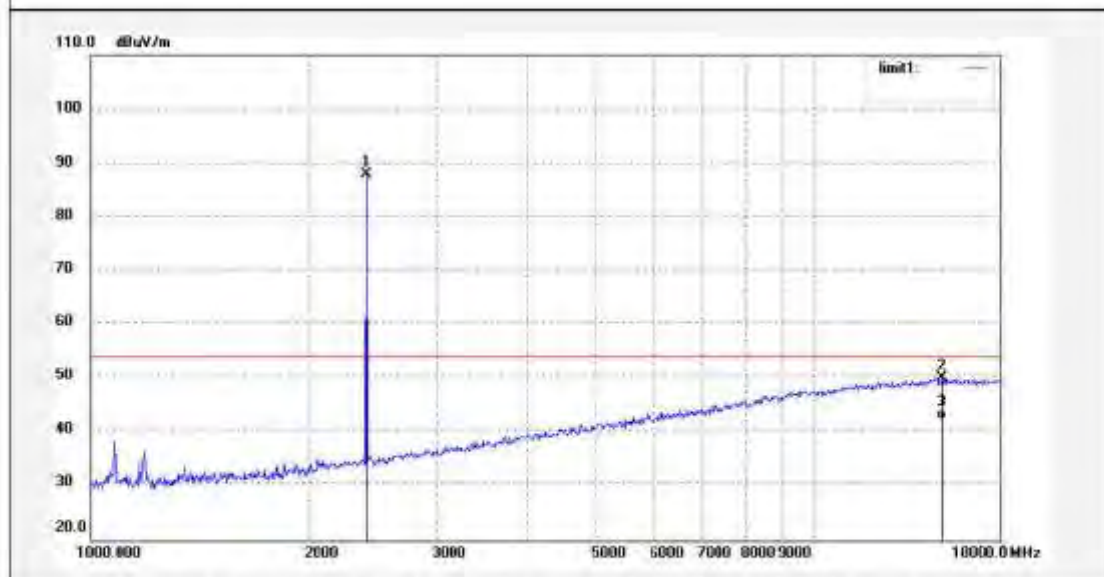
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2402.000   | 95.28            | -7.46       | 87.82           | /              | /           | peak     |             |               |        |
| 2   | 15003.422  | 8.97             | 41.09       | 50.06           | 74.00          | -23.94      | peak     |             |               |        |
| 3   | 15003.422  | 1.26             | 41.09       | 42.35           | 54.00          | -11.65      | AVG      |             |               |        |





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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2223

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

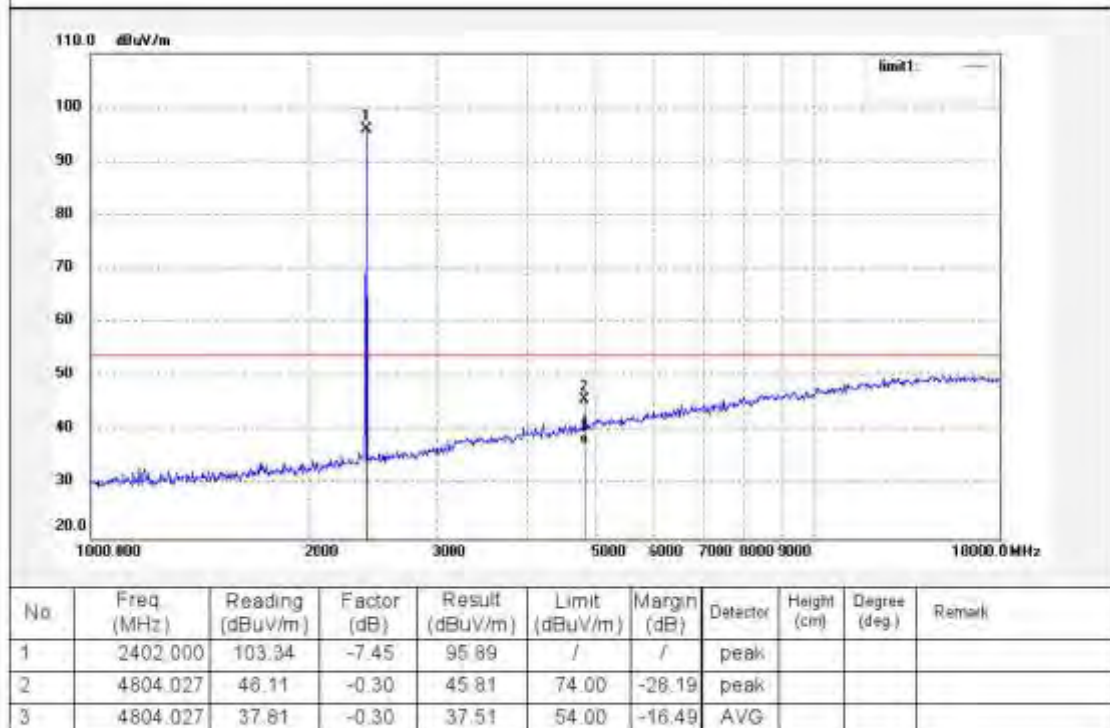
Date: 18/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2226

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2441MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

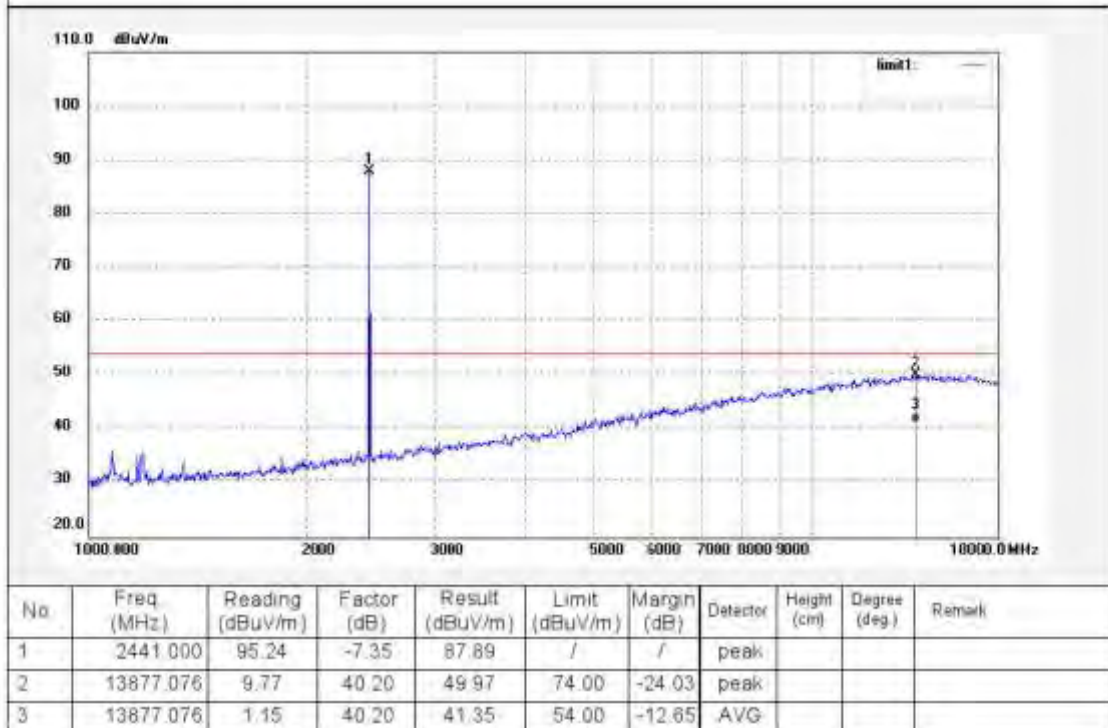
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2227

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2441MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

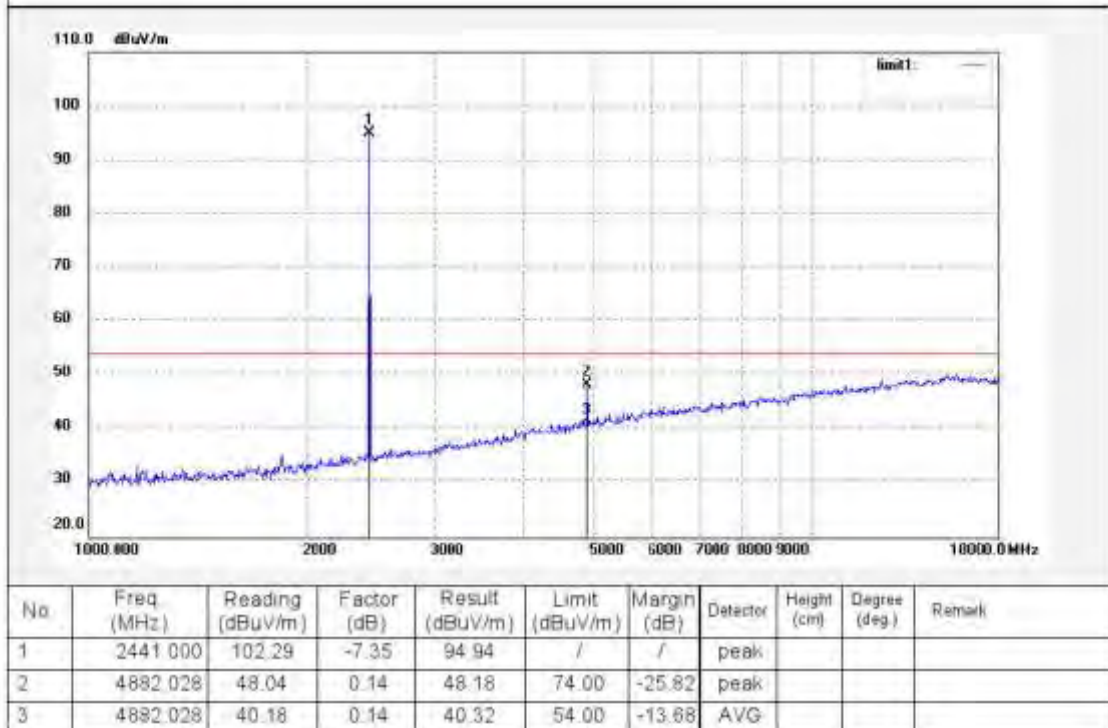
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth







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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2228

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

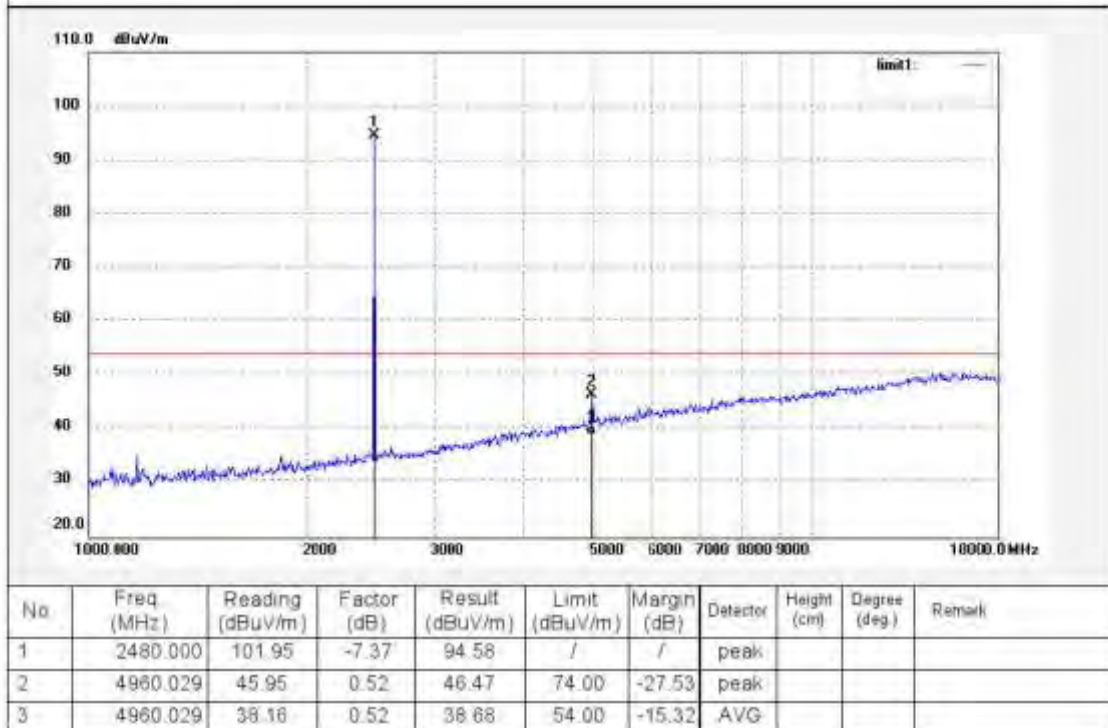
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2229

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

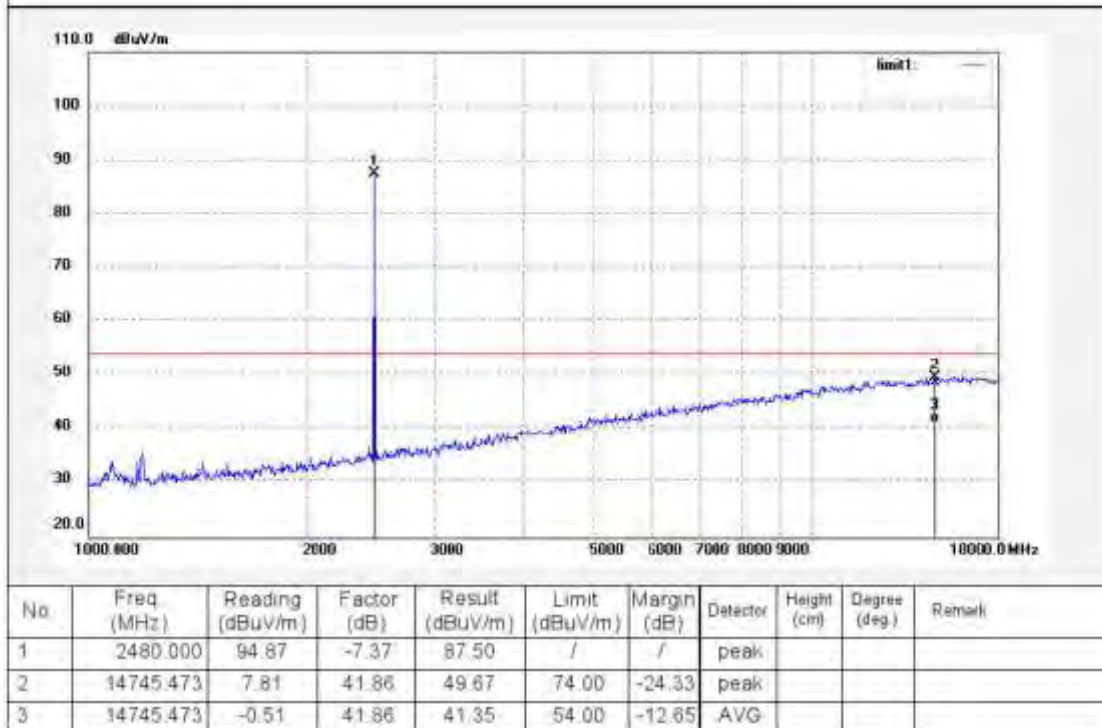
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



BDR mode, 18GHz - 26.5GHz



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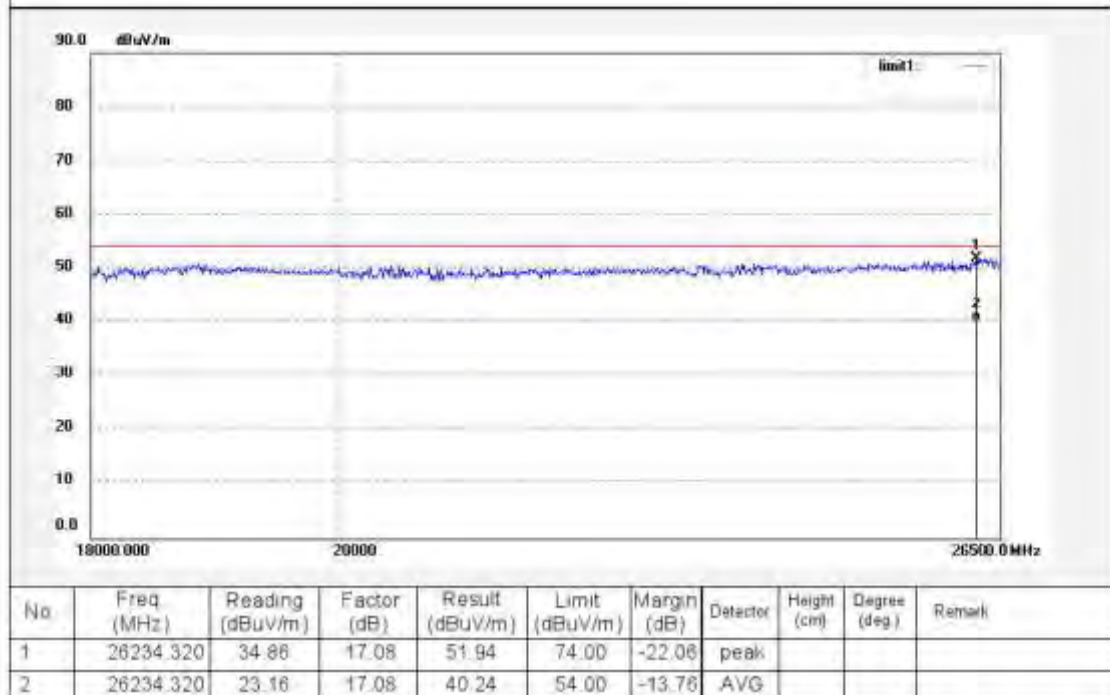
Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #1                   | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2402MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth





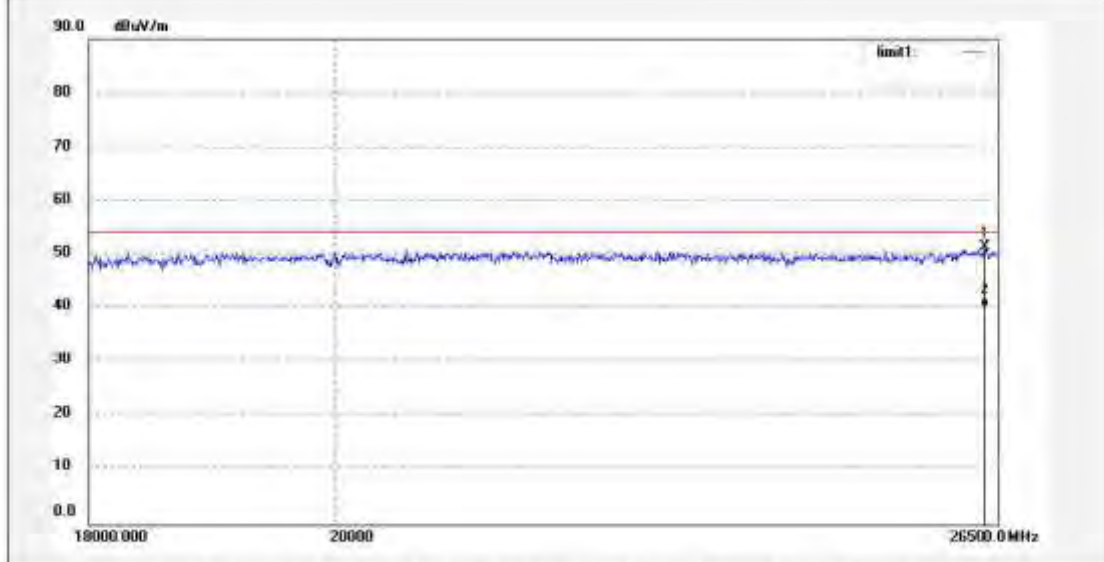
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Site: 2# Chamber  
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Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #2                   | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2402MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26356.609   | 34.93            | 16.50       | 51.43           | 74.00          | -22.57      | peak     |             |               |        |
| 2   | 26356.609   | 23.58            | 16.50       | 40.08           | 54.00          | -13.92      | AVG      |             |               |        |



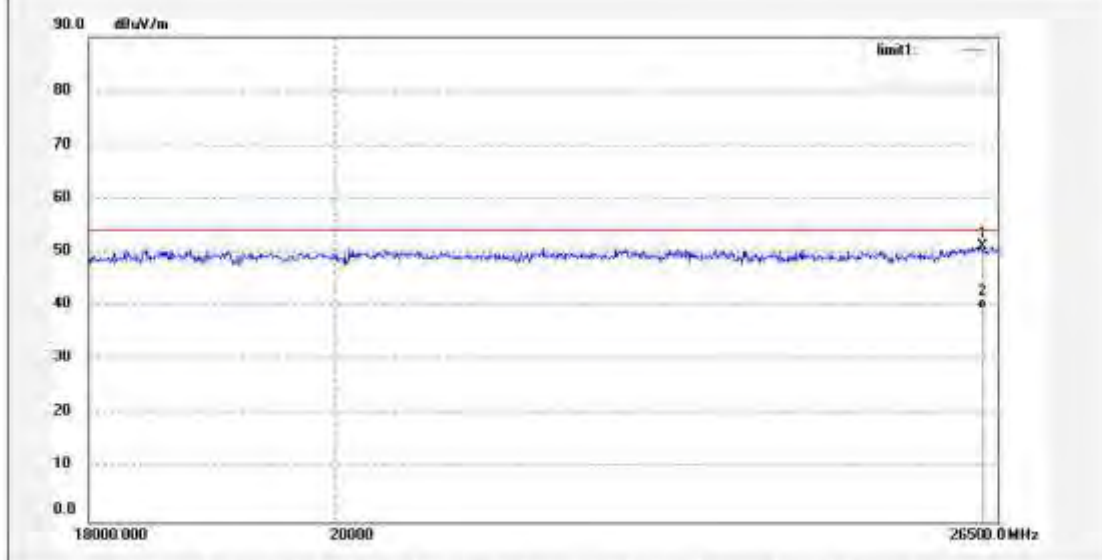
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Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #3                   | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2441MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26336.188   | 34.58            | 16.50       | 51.08           | 74.00          | -22.92      | peak     |             |               |        |
| 2   | 26336.188   | 22.96            | 16.50       | 39.46           | 54.00          | -14.54      | AVG      |             |               |        |





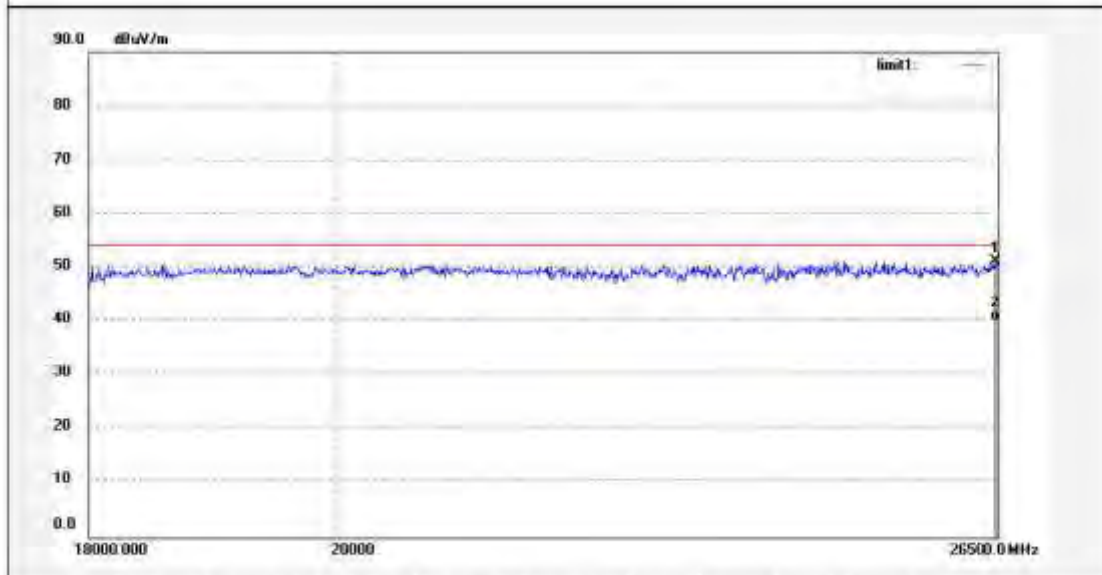
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|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #4                   | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2441MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26479.468   | 34.17            | 16.91       | 51.08           | 74.00          | -22.92      | peak     |             |               |        |
| 2   | 26479.468   | 23.24            | 16.91       | 40.15           | 54.00          | -13.85      | AVG      |             |               |        |



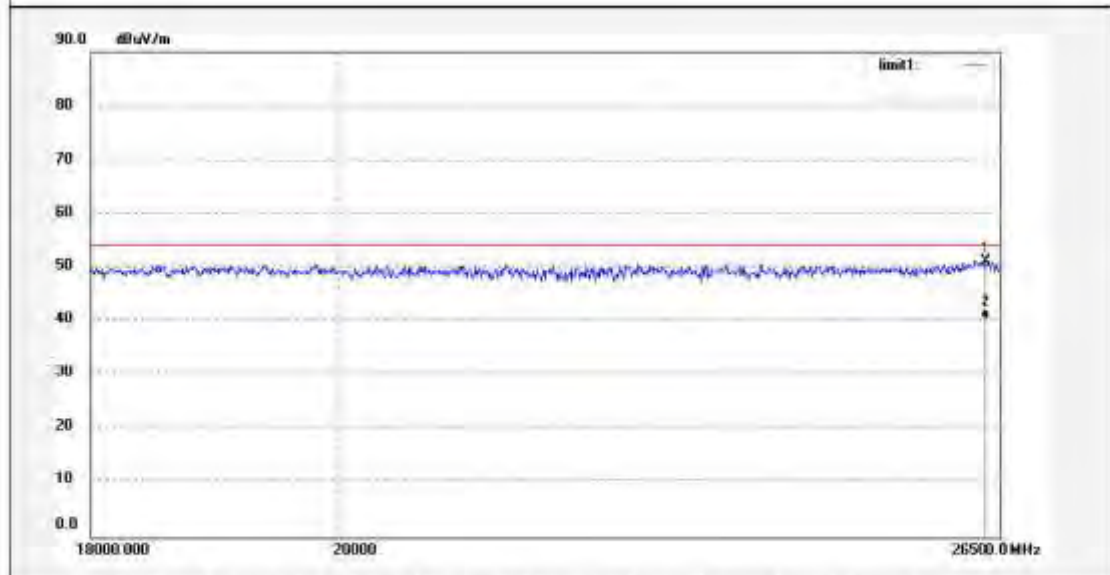
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Site: 2# Chamber  
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Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #5                   | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2480MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26346.396  | 34.20            | 17.00       | 51.20           | 74.00          | -22.80      | peak     |             |               |        |
| 2   | 26346.396  | 23.35            | 17.00       | 40.35           | 54.00          | -13.65      | AVG      |             |               |        |





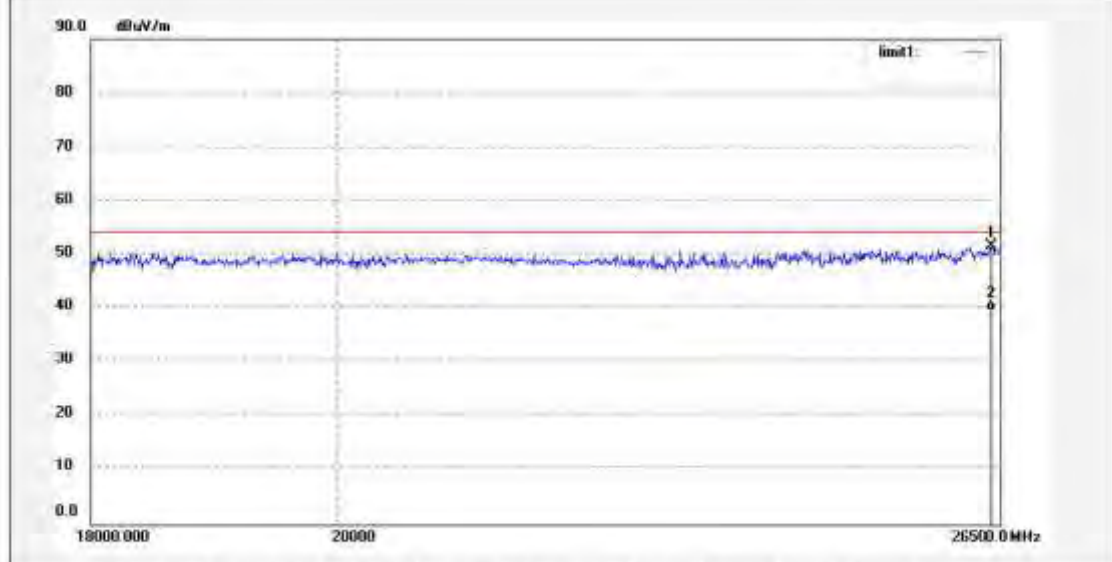
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Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #6                   | Polarization: Horizontal   |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2480MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26407.731   | 35.06            | 16.50       | 51.56           | 74.00          | -22.44      | peak     |             |               |        |
| 2   | 26407.731   | 23.08            | 16.50       | 39.58           | 54.00          | -14.42      | AVG      |             |               |        |

## Low Energy mode, 9KHz - 30MHz

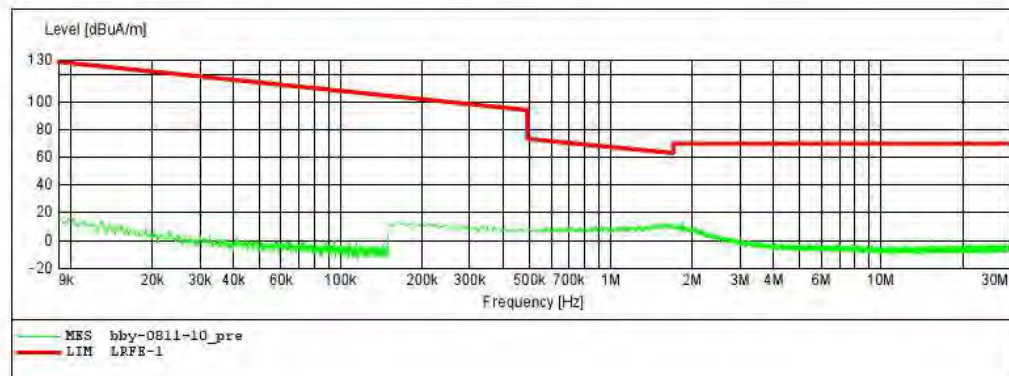
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
 Manufacturer: ContextMedia LLC  
 Operating Condition: TX 2402MHz (Bluetooth 4.0)  
 Test Site: C# Chamber  
 Operator: PEI  
 Test Specification: AC 120V/60Hz  
 Comment: X  
 Start of Test: 2016-8-11 /

### SCAN TABLE: "LFRE Fin"

| Short Description: |           |          | SUB       | STD   | VTERM2 | 1.70   |            |  |
|--------------------|-----------|----------|-----------|-------|--------|--------|------------|--|
| Start              | Stop      | Step     | Detector  | Meas. | IF     | Bandw. | Transducer |  |
| Frequency          | Frequency | Width    |           | Time  |        |        |            |  |
| 9.0 kHz            | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s | 200 Hz | 1516M  |            |  |
| 150.0 kHz          | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s | 9 kHz  | 1516M  |            |  |



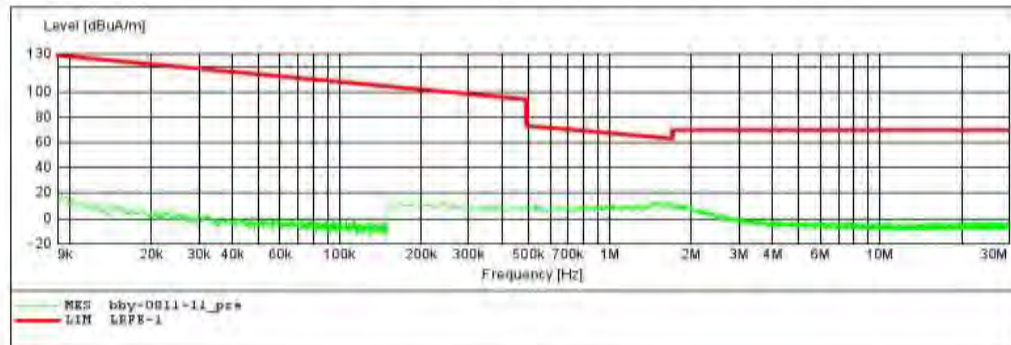
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
 Manufacturer: ContextMedia LLC  
 Operating Condition: TX 2402MHz (Bluetooth 4.0)  
 Test Site: 2# Chamber  
 Operator: PEI  
 Test Specification: AC 120V/60Hz  
 Comment: Y  
 Start of Test: 2016-8-11 /

**SCAN TABLE: "LFRE Fin"**

| Start     | Stop      | Step     | Detector  | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|------------|
| 9.0 kHz   | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s      | 200 Hz    | 1516M      |
| 150.0 kHz | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s      | 9 kHz     | 1516M      |



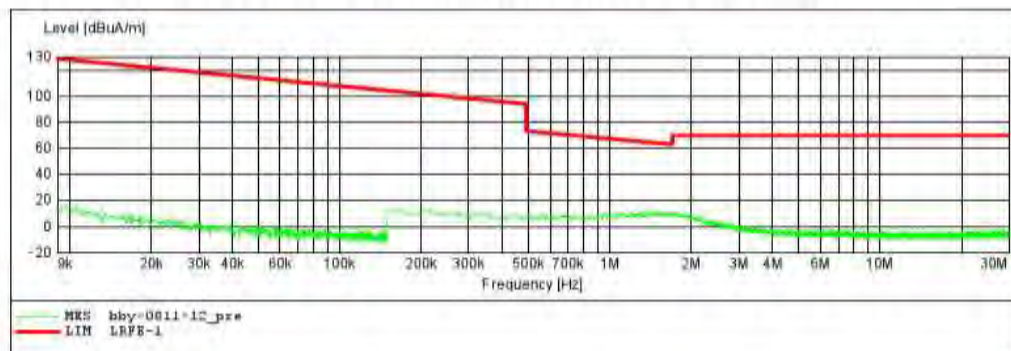
**ACCURATE TECHNOLOGY CO., LTD**

**FCC Class B 3M Radiated**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
 Manufacturer: ContextMedia LLC  
 Operating Condition: TX 2402MHz (Bluetooth 4.0)  
 Test Site: 2# Chamber  
 Operator: PEI  
 Test Specification: AC 120V/60Hz  
 Comment: Z  
 Start of Test: 2016-8-11 /

**SCAN TABLE: "LFRE Fin"**

| Start     | Stop      | Step     | Detector  | Meas. Time | IF Bandw. | Transducer |
|-----------|-----------|----------|-----------|------------|-----------|------------|
| 9.0 kHz   | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s      | 200 Hz    | 1516M      |
| 150.0 kHz | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s      | 9 kHz     | 1516M      |



Low Energy mode, 30MHz - 1GHz



**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2370

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

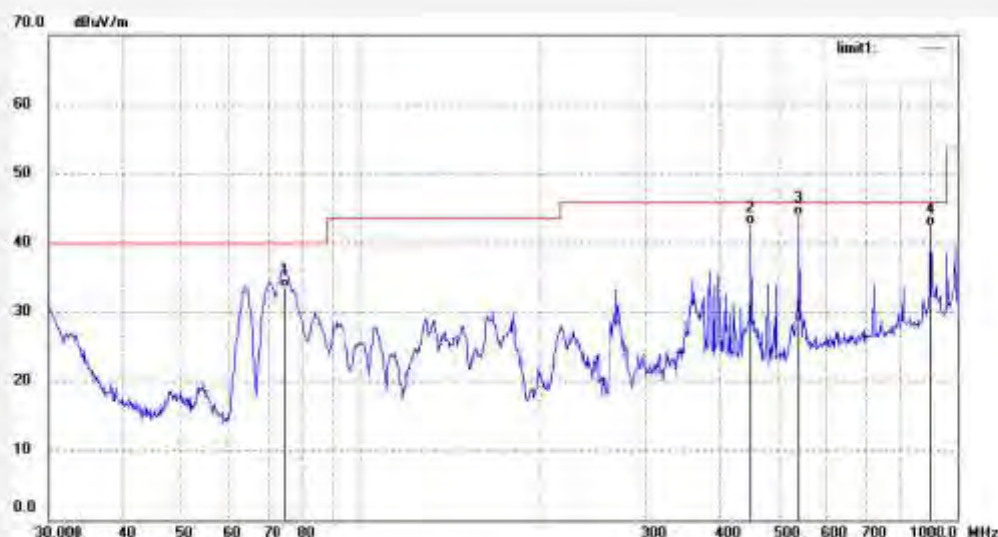
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 74.9191    | 50.23            | -16.75      | 33.48           | 40.00          | -6.52       | QP       |             |               |        |
| 2   | 450.0318   | 48.44            | -5.78       | 42.66           | 46.00          | -3.34       | QP       |             |               |        |
| 3   | 540.0289   | 47.86            | -3.87       | 43.99           | 46.00          | -2.01       | QP       |             |               |        |
| 4   | 900.0812   | 41.24            | -1.28       | 42.52           | 46.00          | -3.48       | QP       |             |               |        |





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Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2371

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

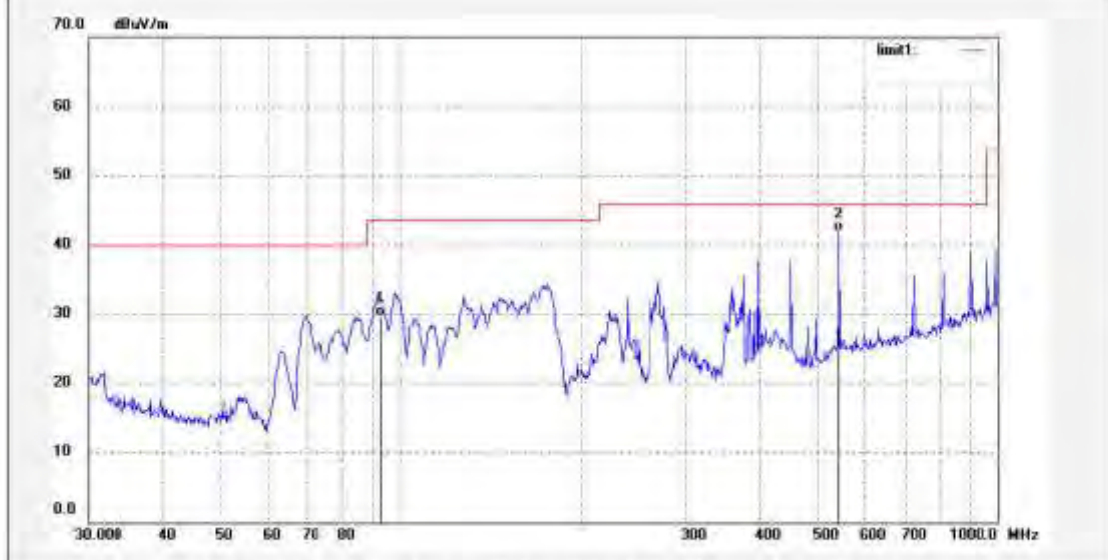
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 92.1388     | 44.54            | -14.96      | 29.58           | 43.50          | -13.92      | QP       |             |               |        |
| 2   | 540.0230    | 45.75            | -3.87       | 41.88           | 46.00          | -4.12       | QP       |             |               |        |



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Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2372

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2440MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

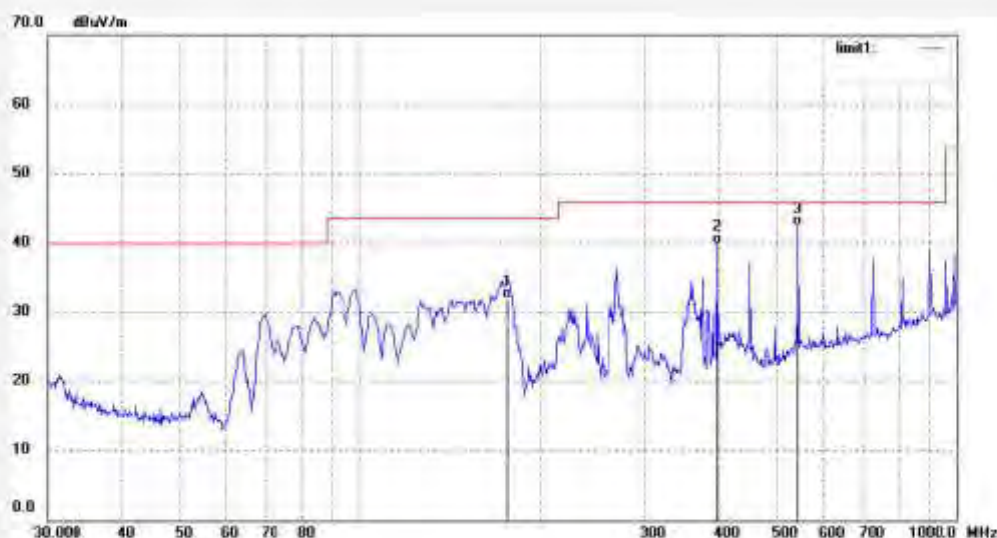
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 176.8878    | 45.51            | -13.57      | 31.94           | 43.50          | -11.56      | QP       |             |               |        |
| 2   | 396.2414    | 46.85            | -6.97       | 39.88           | 46.00          | -6.12       | QP       |             |               |        |
| 3   | 540.0242    | 46.31            | -3.87       | 42.44           | 46.00          | -3.56       | QP       |             |               |        |





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2373

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2440MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

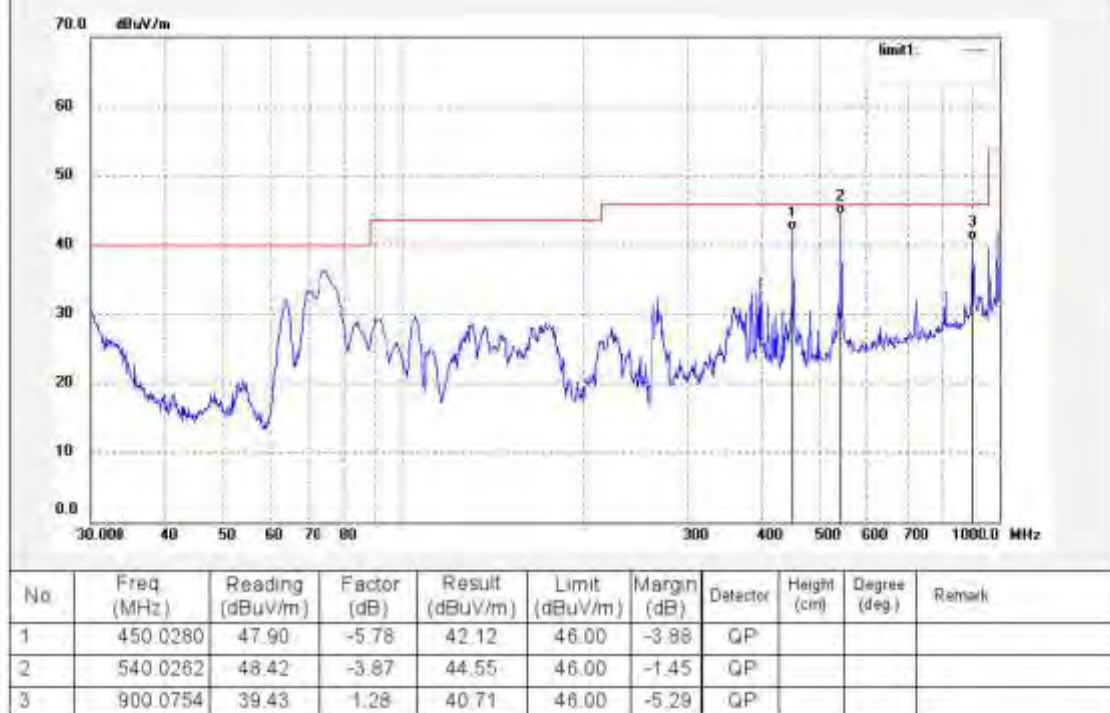
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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Fax: +86-0755-26503396

Job No.: -phy #2374

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

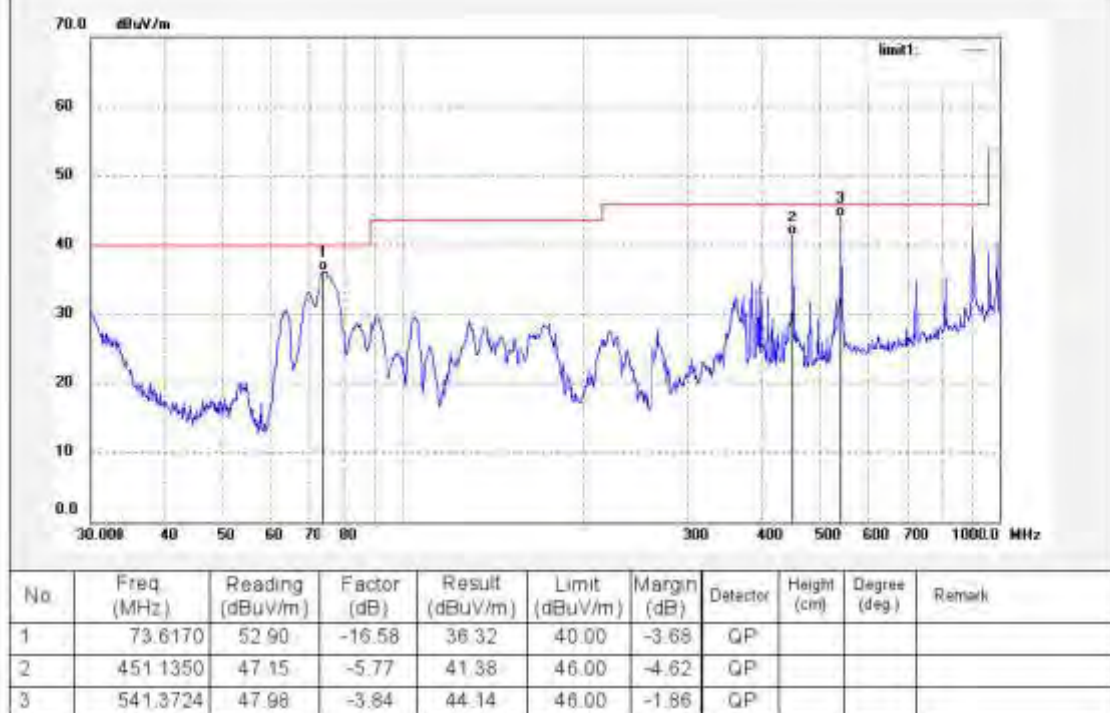
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2375

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

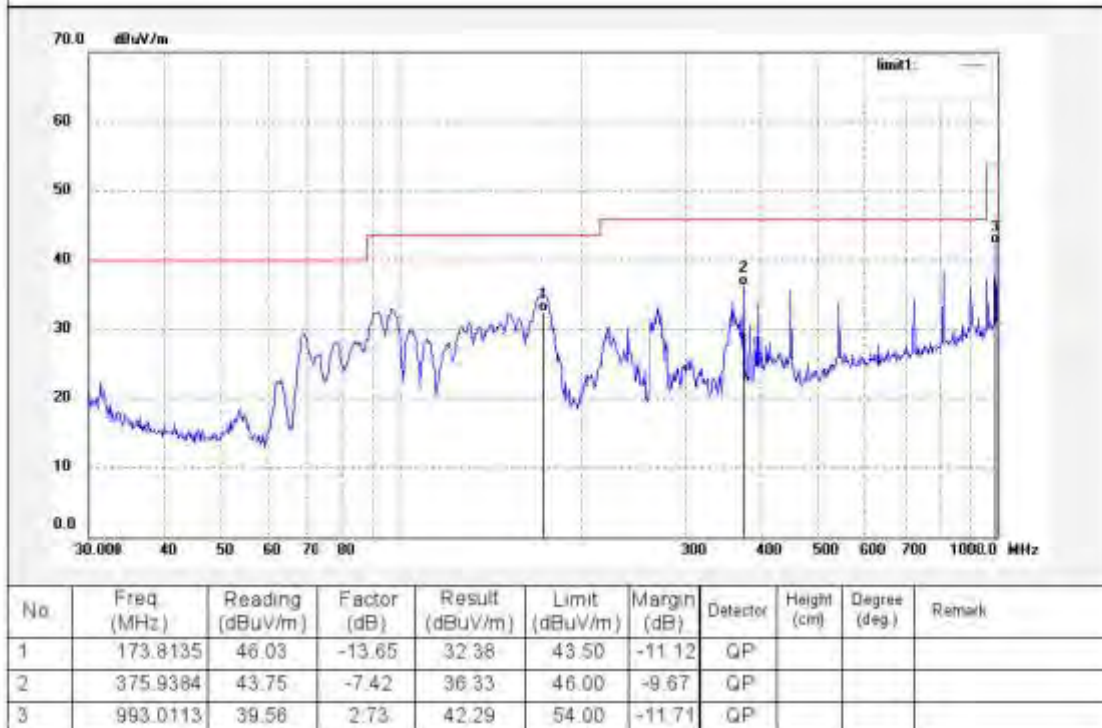
Date: 16/08/03/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



Low Energy mode, 1GHz - 18GHz



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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2232

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum(%) 23 C / 48 %

EUT: ContextMedia Health

Model: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

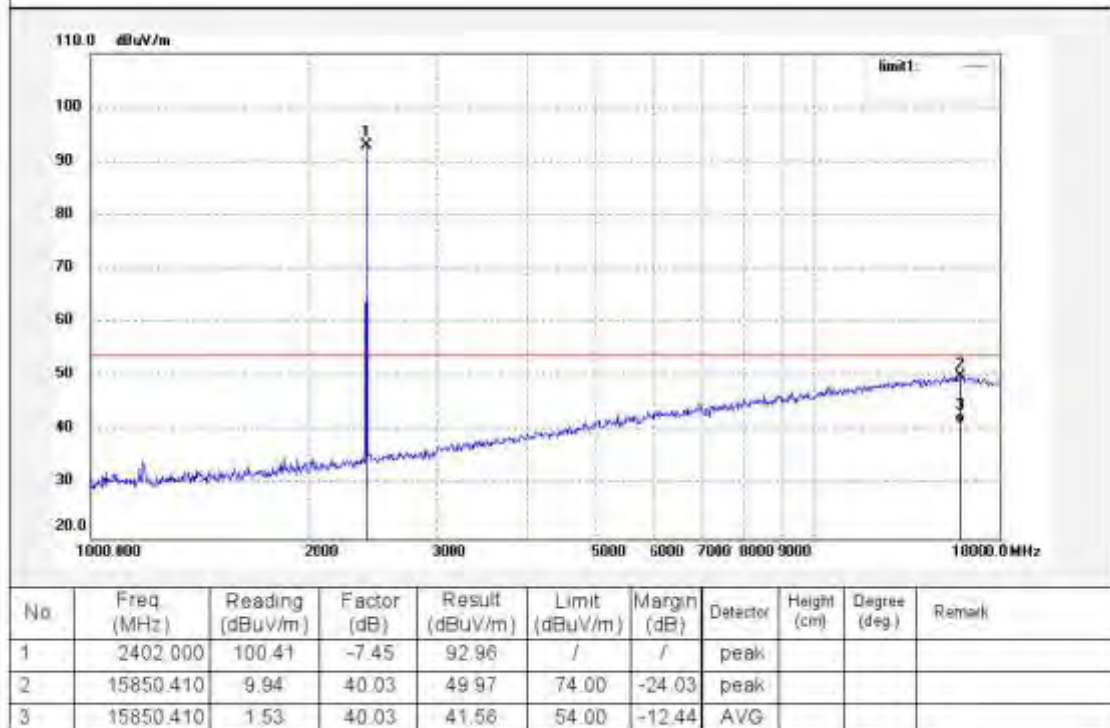
Date: 18/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0







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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2233

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

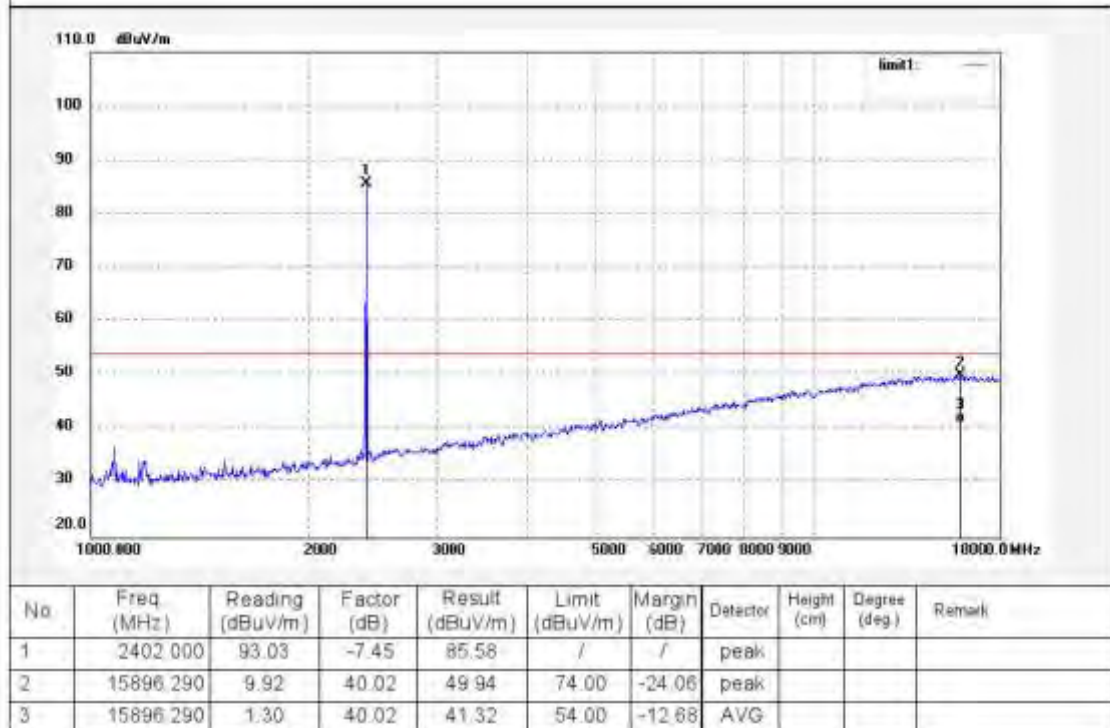
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2236

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C /48 %

EUT: ContextMedia Health

Mode: TX 2440MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

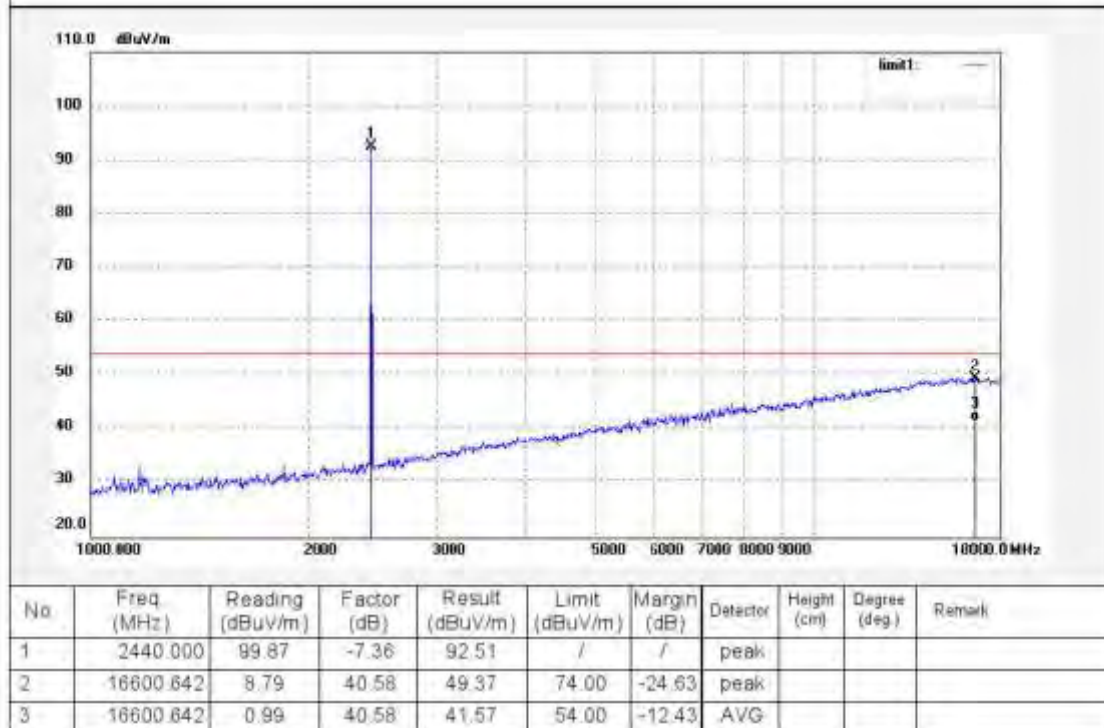
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0







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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2237

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum (%) 23 C /48 %

EUT: ContextMedia Health

Mode: TX 2440MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

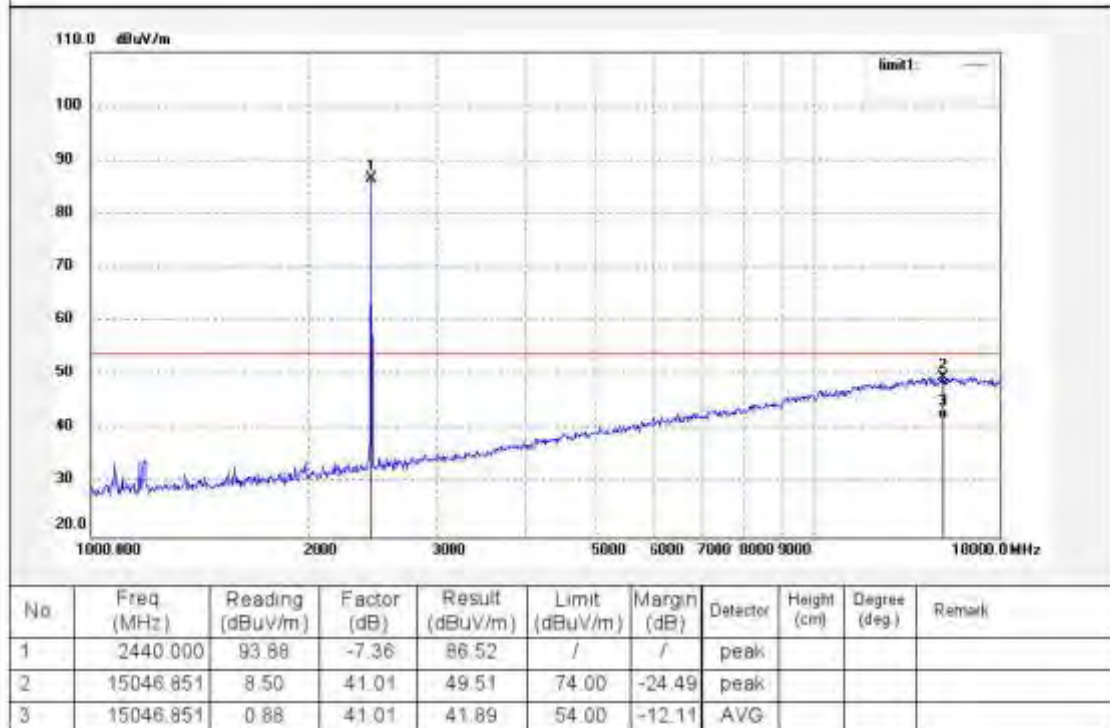
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2238

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

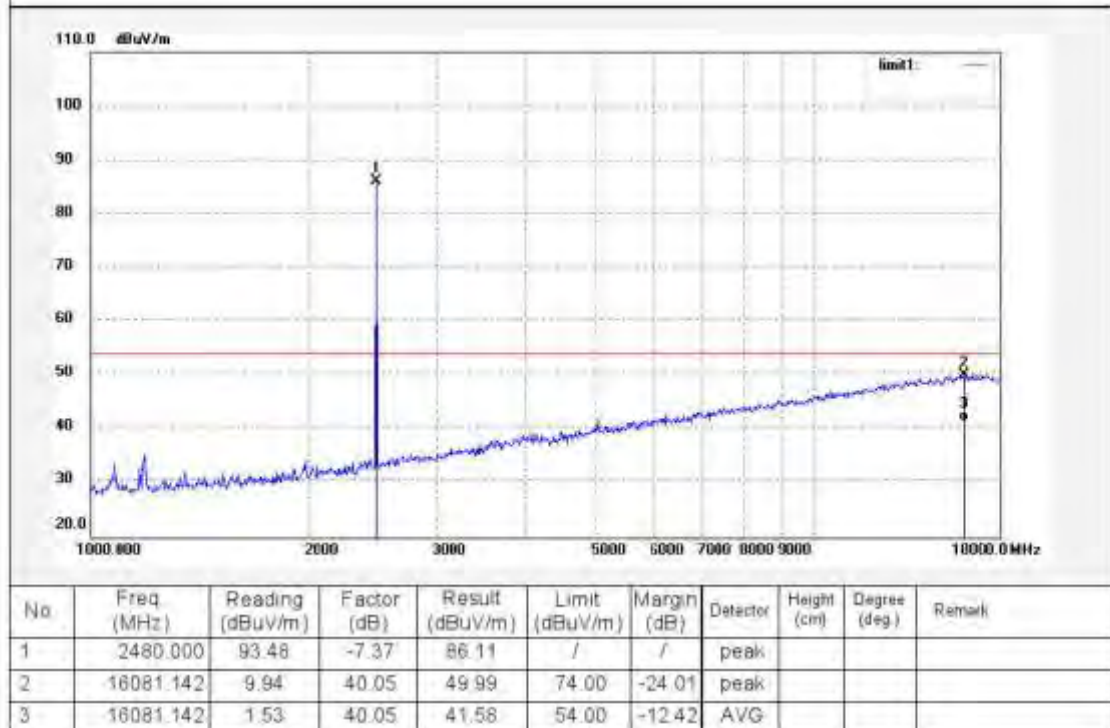
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2239

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.( C)/Hum.(%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

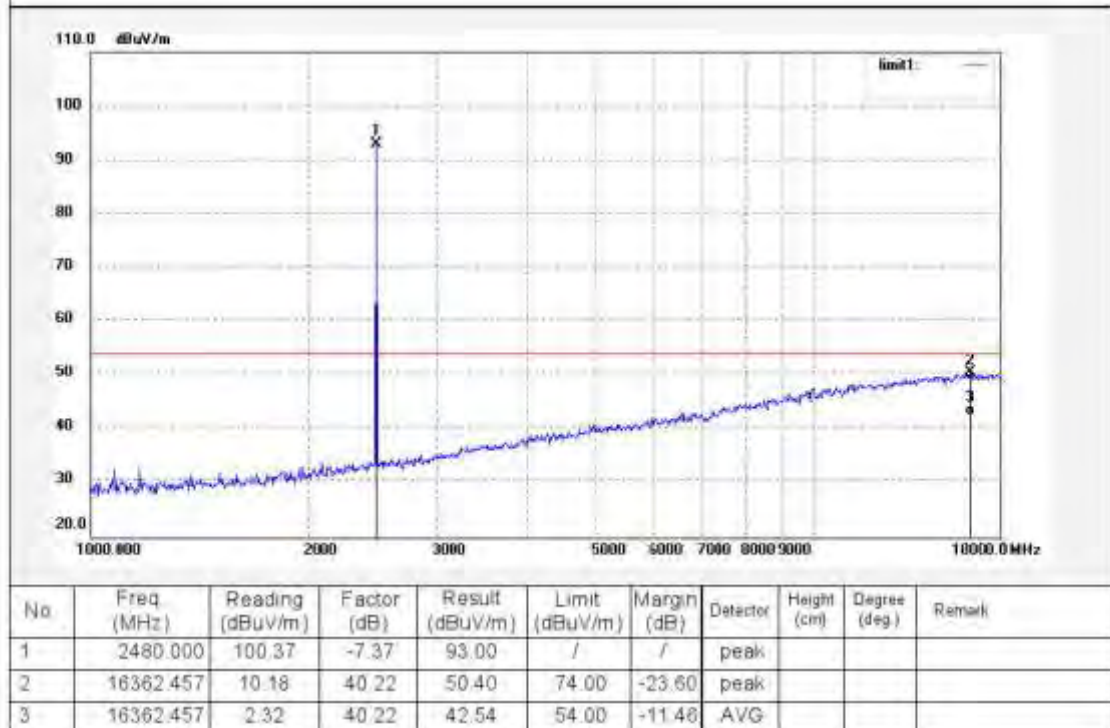
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



Low Energy mode, 18GHz - 26.5GHz



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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: BBY #7

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

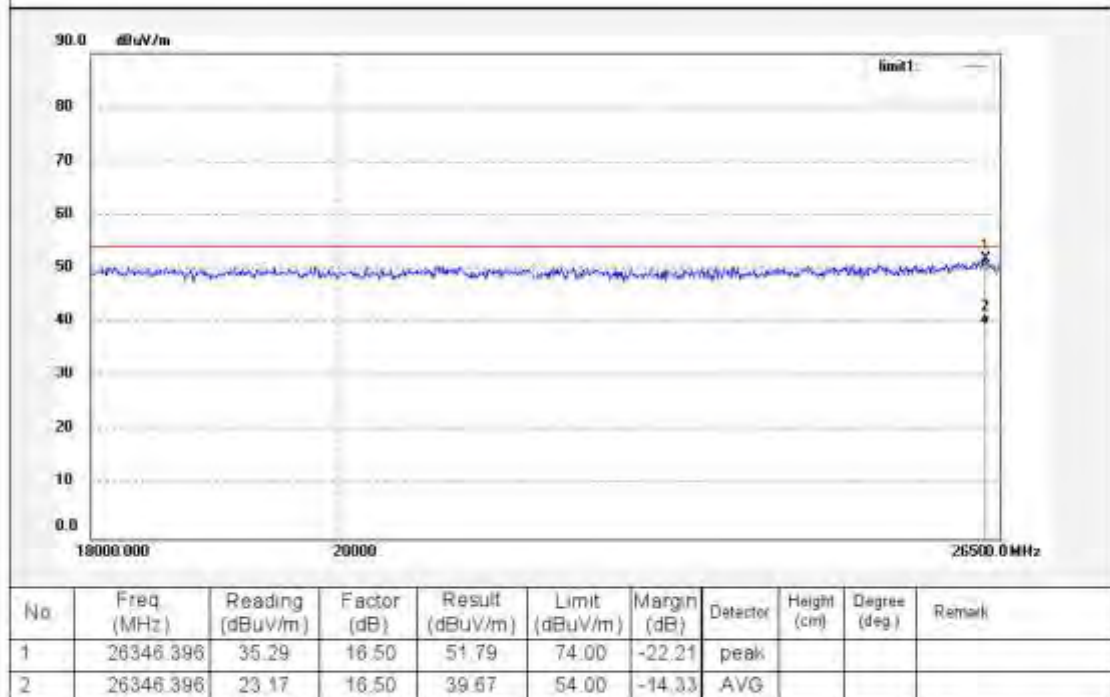
Date: 2016/08/12

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





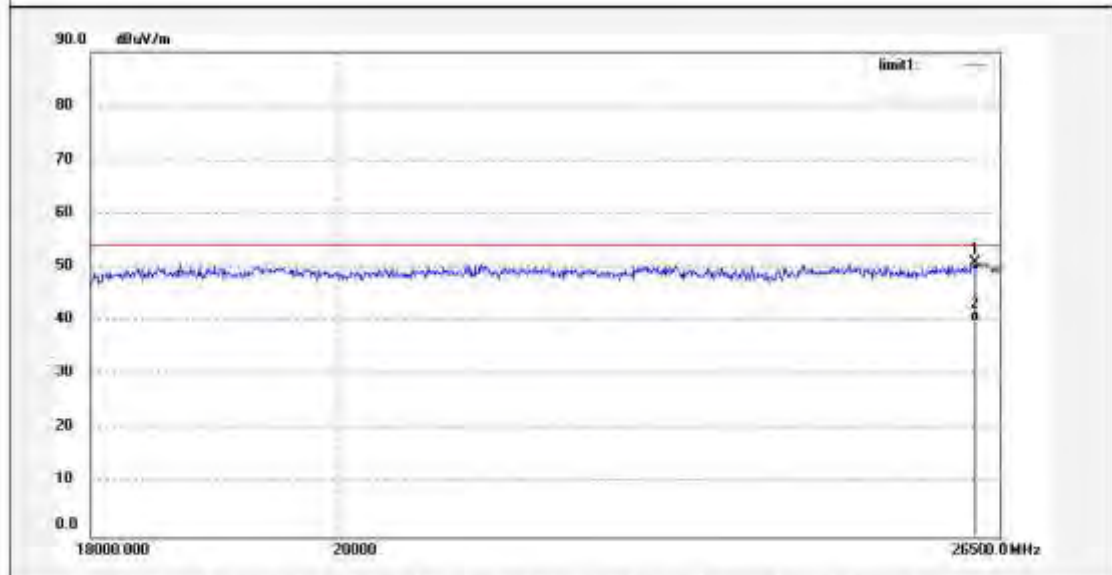
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F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #8                   | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2402MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26224.155  | 33.86            | 17.08       | 50.94           | 74.00          | -23.06      | peak     |             |               |        |
| 2   | 26224.155  | 22.84            | 17.08       | 39.92           | 54.00          | -14.08      | AVG      |             |               |        |





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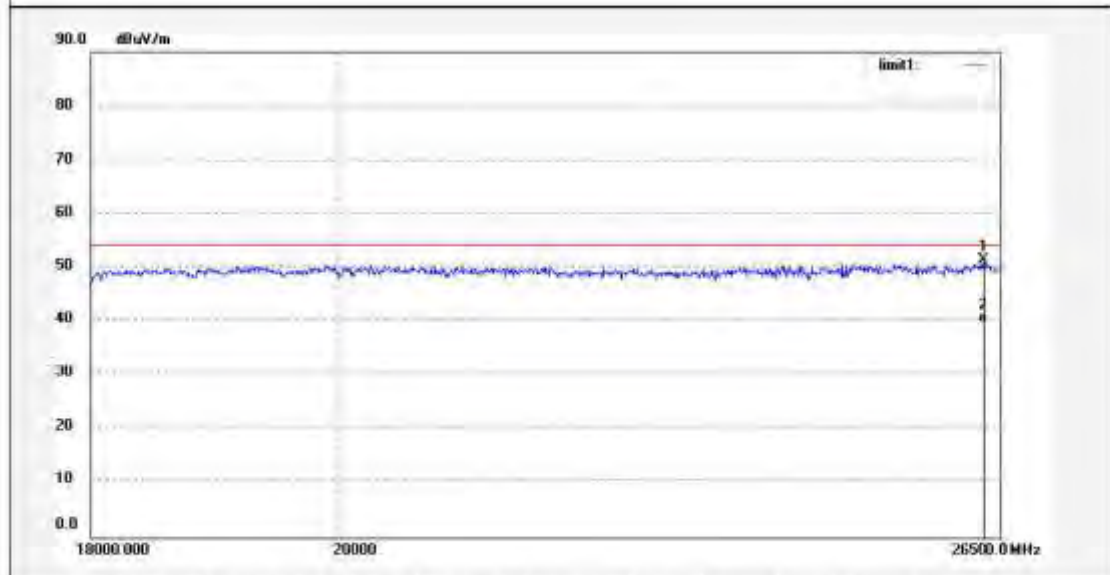
F1,Bldg.A,Changyuan New Material Port Keyuan Rd,  
Science & Industry Park,Nanshan Shenzhen,P.R.China

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #9                   | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2440MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |
| Note: Bluetooth 4.0               |                            |



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26315.783   | 34.40            | 17.02       | 51.42           | 74.00          | -22.58      | peak     |             |               |        |
| 2   | 26315.783   | 22.77            | 17.02       | 39.79           | 54.00          | -14.21      | AVG      |             |               |        |





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: BBY #10

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2440MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

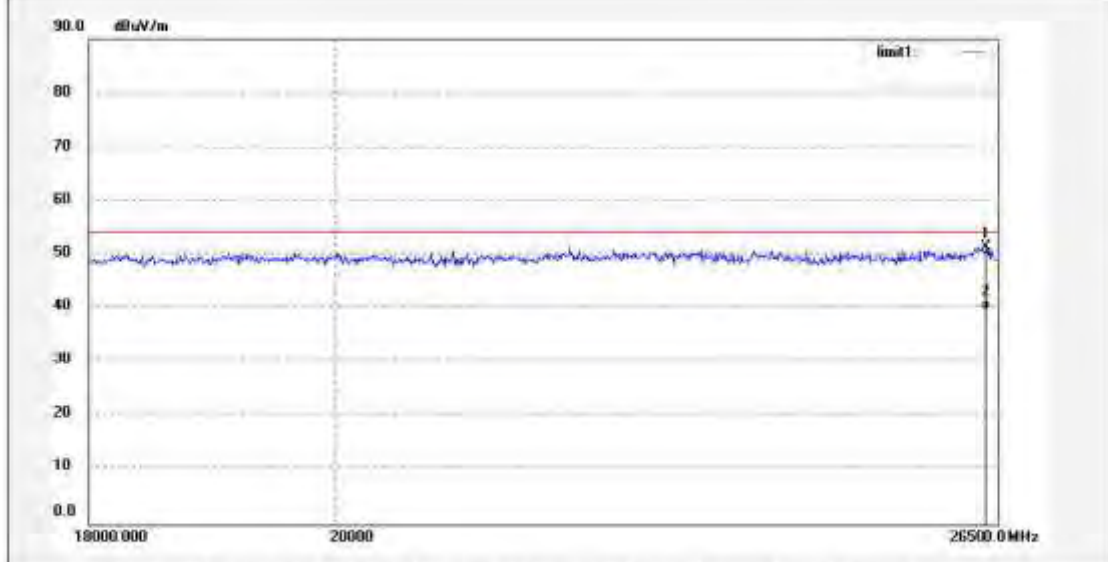
Date: 2016/08/12

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26377.046  | 34.84            | 16.50       | 51.34           | 74.00          | -22.66      | peak     |             |               |        |
| 2   | 26377.046  | 23.20            | 16.50       | 39.70           | 54.00          | -14.30      | AVG      |             |               |        |



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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: BBY #11

Standard: FCC Class B 3M Radiated

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

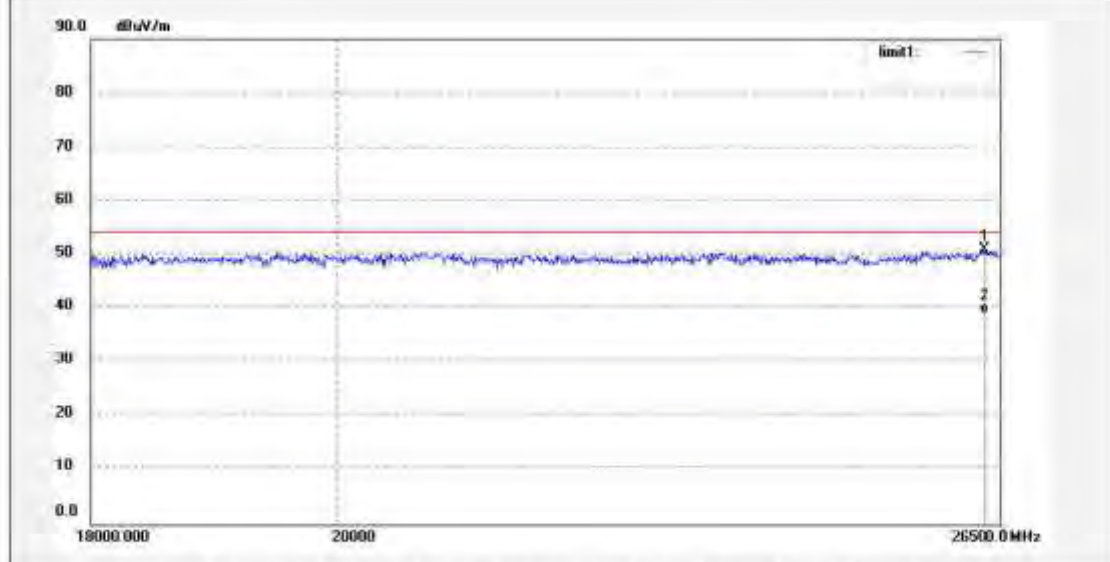
Date: 2016/08/12

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26336.188   | 34.35            | 16.50       | 50.85           | 74.00          | -23.15      | peak     |             |               |        |
| 2   | 26336.188   | 22.49            | 16.50       | 38.99           | 54.00          | -15.01      | AVG      |             |               |        |



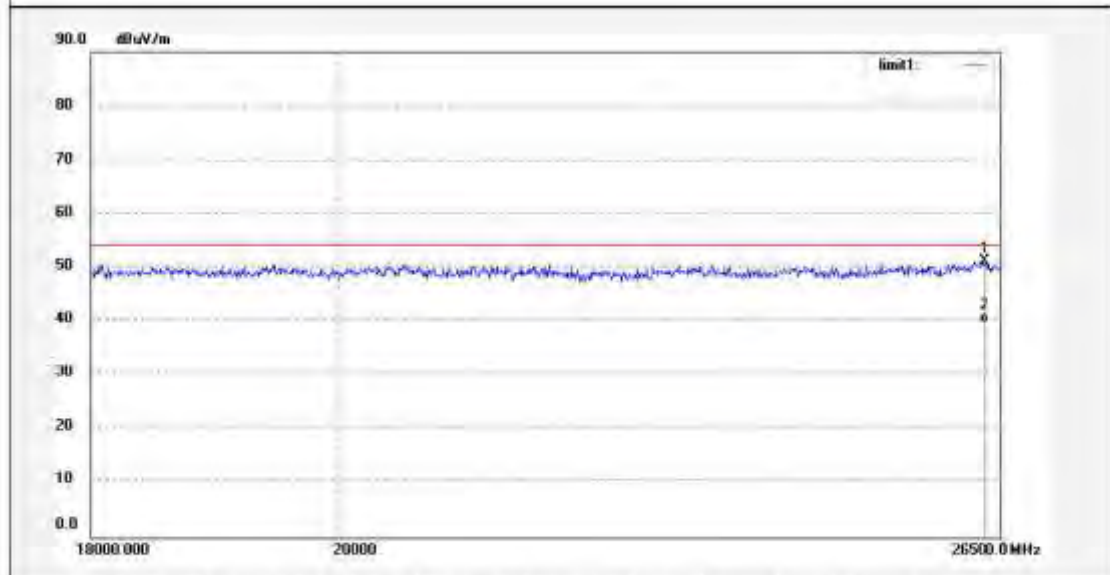
**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

|                                   |                            |
|-----------------------------------|----------------------------|
| Job No.: BBY #12                  | Polarization: Vertical     |
| Standard: FCC Class B 3M Radiated | Power Source: AC 120V/60Hz |
| Test item: Radiation Test         | Date: 2016/08/12           |
| Temp.: C/Hum (%): 23 C / 48 %     | Time:                      |
| EUT: ContextMedia Health          | Engineer Signature: PEI    |
| Mode: TX 2480MHz                  | Distance: 3m               |
| Model: P-WAL-106-ELC-01           |                            |
| Manufacturer: ContextMedia LLC    |                            |

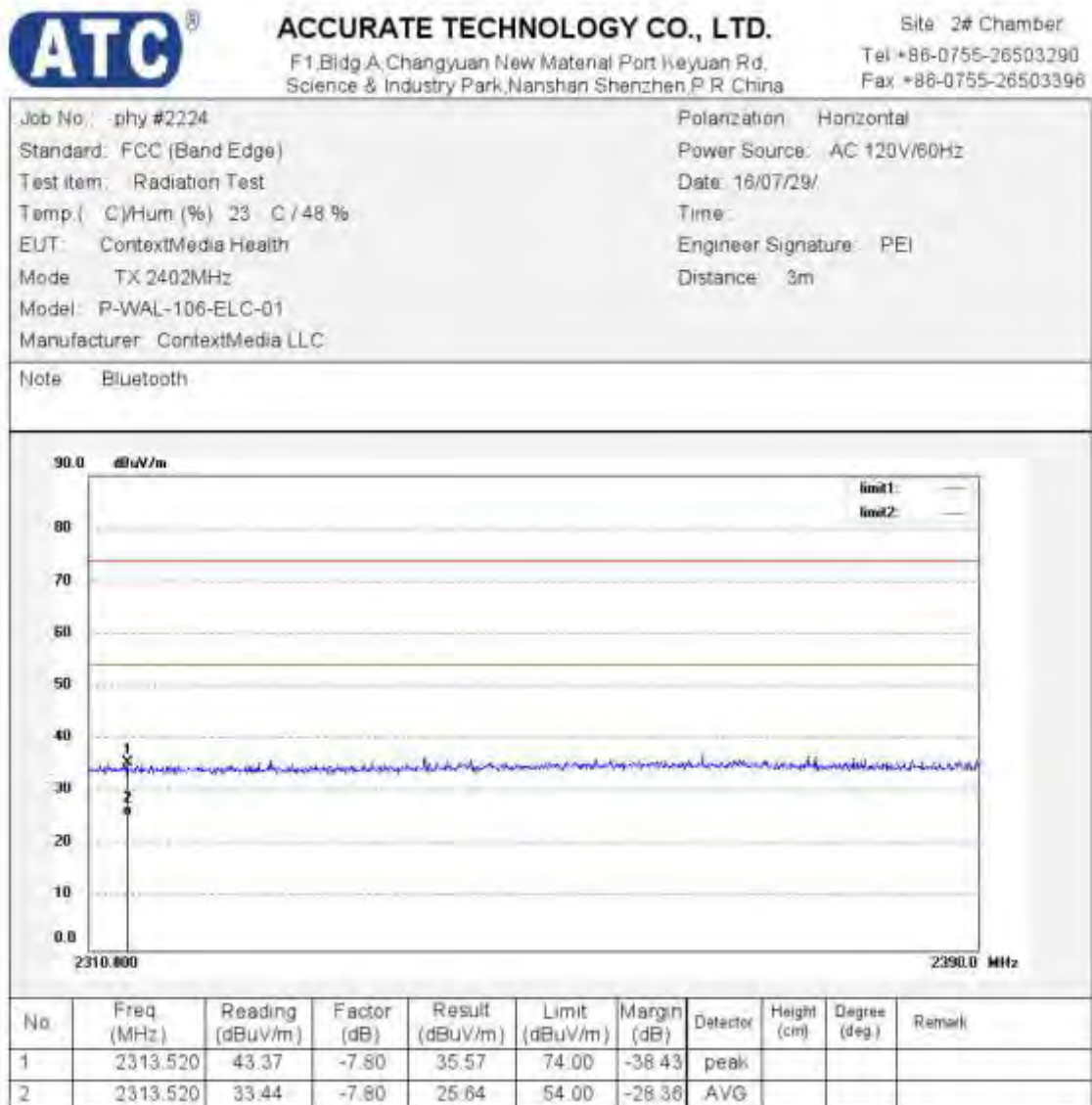
Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 26325.983  | 34.23            | 17.02       | 51.25           | 74.00          | -22.75      | peak     |             |               |        |
| 2   | 26325.983  | 22.68            | 17.02       | 39.70           | 54.00          | -14.30      | AVG      |             |               |        |

## Appendix C.2: Test Plots of Band Edge (Radiated)

BDR mode, Low Channel





**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2225

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

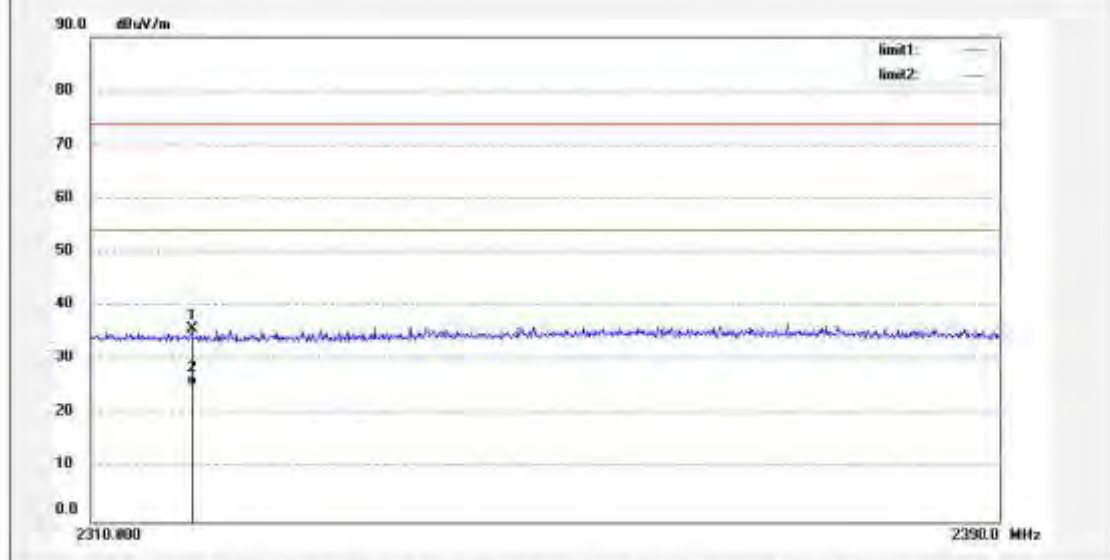
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



| No. | Freq. (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|-------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2318.880    | 43.61            | -7.81       | 35.80           | 74.00          | -38.20      | peak     |             |               |        |
| 2   | 2318.880    | 33.05            | -7.81       | 25.24           | 54.00          | -28.76      | AVG      |             |               |        |



**BDR mode, High Channel**



**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2230

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

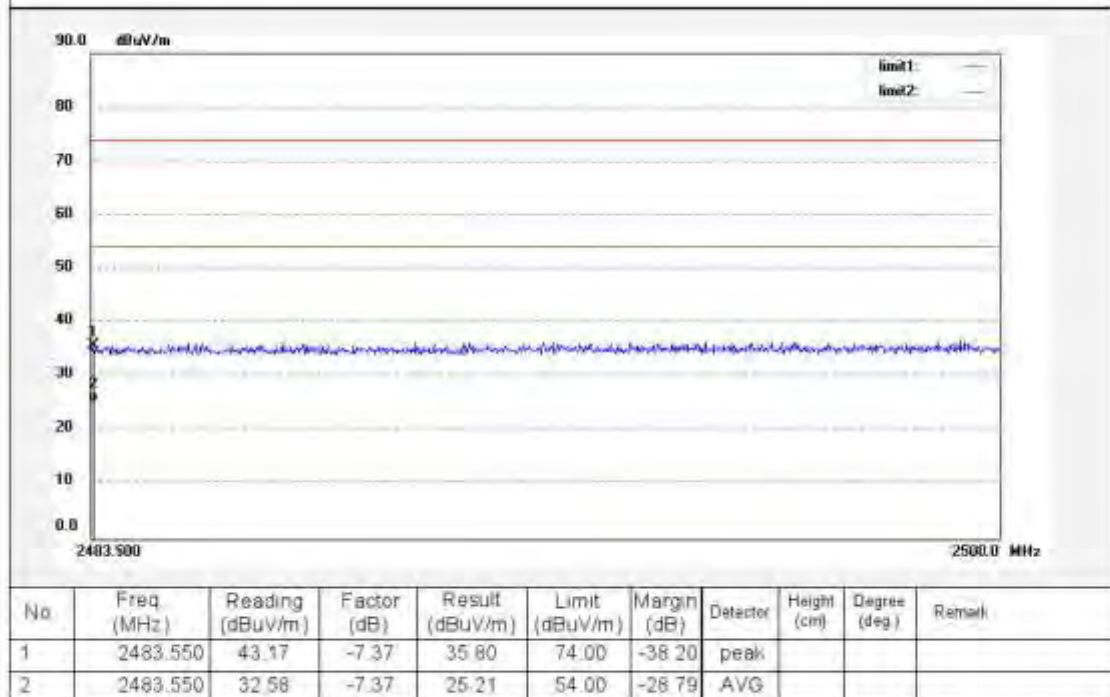
Date: 18/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth







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

Site: 2# Chamber  
Tel: +86-0755-26503290  
Fax: +86-0755-26503396

Job No.: -phy #2231

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.( C)/Hum (%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2483.517   | 43.60            | -7.37       | 36.23           | 74.00          | -37.77      | peak     |             |               |        |
| 2   | 2483.517   | 33.16            | -7.37       | 25.79           | 54.00          | -28.21      | AVG      |             |               |        |

Low Energy mode, Low Channel



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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2234

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%) 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

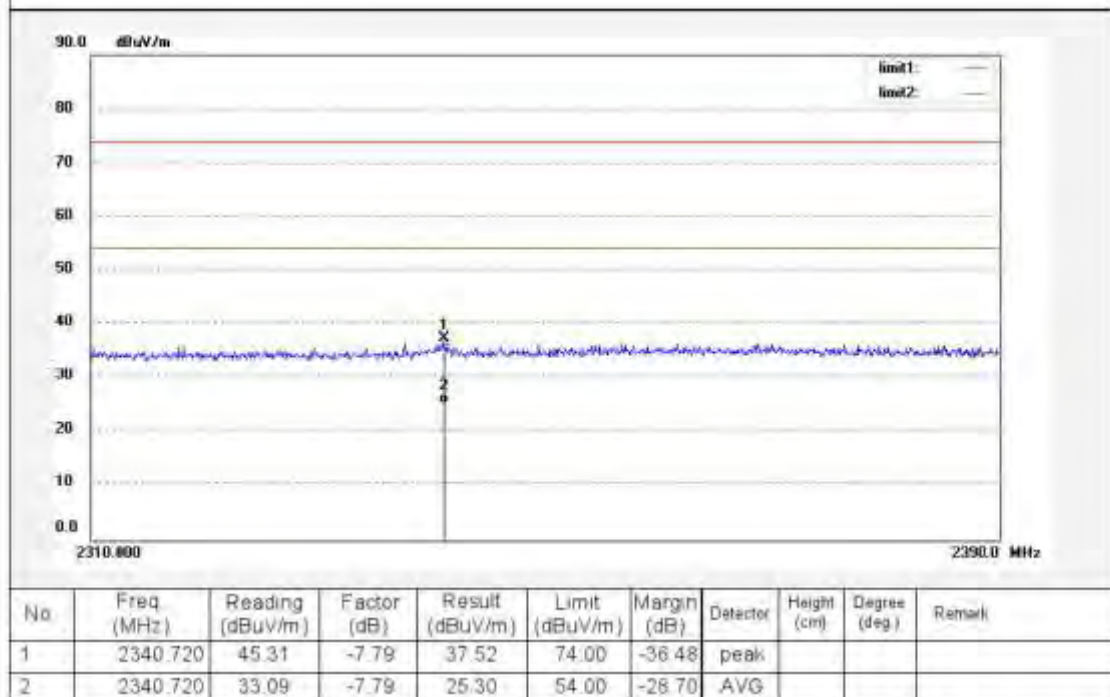
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





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Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2235

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2402MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

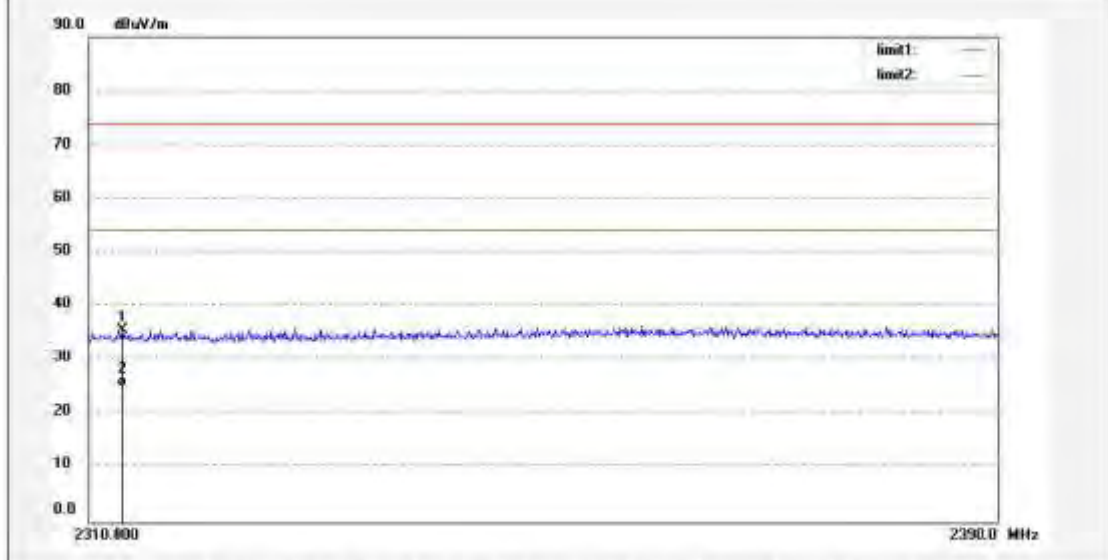
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2313.040   | 43.46            | -7.81       | 35.65           | 74.00          | -38.35      | peak     |             |               |        |
| 2   | 2313.040   | 32.85            | -7.81       | 25.04           | 54.00          | -28.96      | AVG      |             |               |        |

Low Energy mode, High Channel



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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2240

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Horizontal

Power Source: AC 120V/60Hz

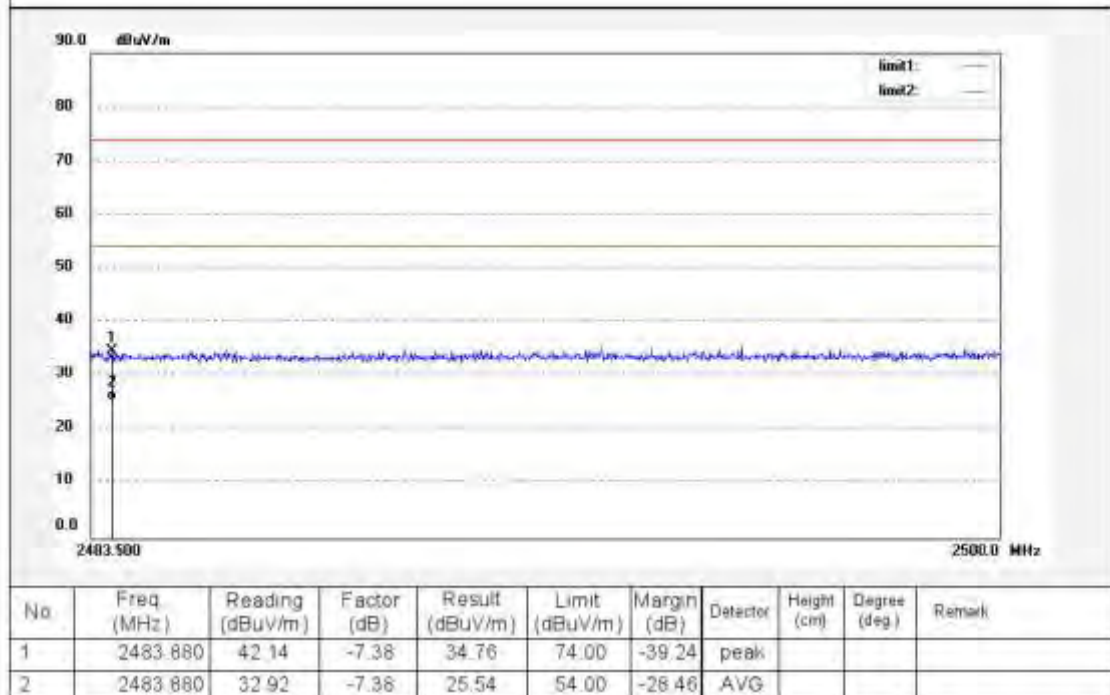
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0





**ACCURATE TECHNOLOGY CO., LTD.**

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

Site: 2# Chamber

Tel: +86-0755-26503290

Fax: +86-0755-26503396

Job No.: -phy #2241

Standard: FCC (Band Edge)

Test item: Radiation Test

Temp.: C/Hum (%): 23 C / 48 %

EUT: ContextMedia Health

Mode: TX 2480MHz

Model: P-WAL-106-ELC-01

Manufacturer: ContextMedia LLC

Polarization: Vertical

Power Source: AC 120V/60Hz

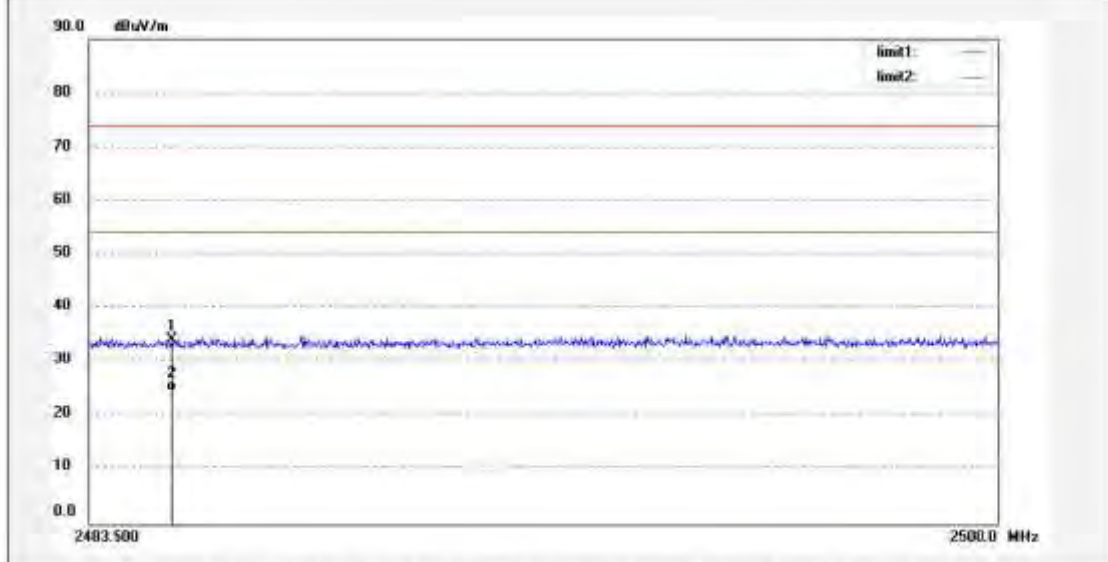
Date: 16/07/29/

Time:

Engineer Signature: PEI

Distance: 3m

Note: Bluetooth 4.0



| No. | Freq (MHz) | Reading (dBuV/m) | Factor (dB) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | Height (cm) | Degree (deg.) | Remark |
|-----|------------|------------------|-------------|-----------------|----------------|-------------|----------|-------------|---------------|--------|
| 1   | 2485.001   | 41.78            | -7.38       | 34.40           | 74.00          | -39.60      | peak     |             |               |        |
| 2   | 2485.001   | 31.95            | -7.38       | 24.57           | 54.00          | -29.43      | AVG      |             |               |        |



## Appendix C.3: Test Plots of Conducted Emission

### C Mode

ACCURATE TECHNOLOGY CO., LTD

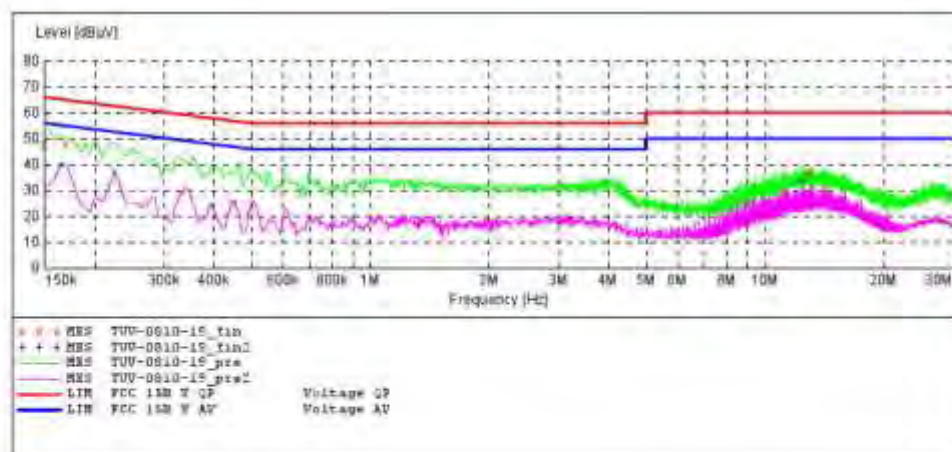
#### CONDUCTED EMISSION STANDARD FCC PART 15 B

EUT: ContextMedia Health M/N:T-WAL-106-ELC-01  
Manufacturer: ContextMedia LLC  
Operating Condition: On with Bluetooth  
Test Site: 1#Shielding Room  
Operator: LGWADE  
Test Specification: N 120V/60Hz  
Comment: Mains Port  
Start of Test: 8/10/2016 /

#### SCAN TABLE: "V 9K-30MHz fin"

Short Description: SUB STD VTERMZ 1.70

| Start Frequency | Stop Frequency | Step Width | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------------|----------------|------------|-----------|------------|-----------|---------------|
| 9.0 kHz         | 150.0 kHz      | 100.0 Hz   | QuasiPeak | 1.0 s      | 200 Hz    | NSLK8126 2008 |
| 150.0 kHz       | 30.0 MHz       | 5.0 kHz    | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
|                 |                |            | Average   |            |           |               |



#### MEASUREMENT RESULT: "TUV-0810-19\_fin"

8/10/2016

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.150000      | 47.40      | 10.5      | 66         | 18.6      | QP       | N    | GND |
| 0.170000      | 47.90      | 10.5      | 65         | 17.1      | QP       | N    | GND |
| 13.030000     | 36.50      | 11.3      | 60         | 23.5      | QP       | N    | GND |

#### MEASUREMENT RESULT: "TUV-0810-19\_fin2"

8/10/2016

| Frequency MHz | Level dBμV | Transd dB | Limit dBμV | Margin dB | Detector | Line | PE  |
|---------------|------------|-----------|------------|-----------|----------|------|-----|
| 0.165000      | 39.50      | 10.5      | 55         | 15.7      | AV       | N    | GND |
| 0.225000      | 36.70      | 10.6      | 53         | 16.3      | AV       | N    | GND |
| 12.355000     | 33.10      | 11.3      | 50         | 16.9      | AV       | N    | GND |



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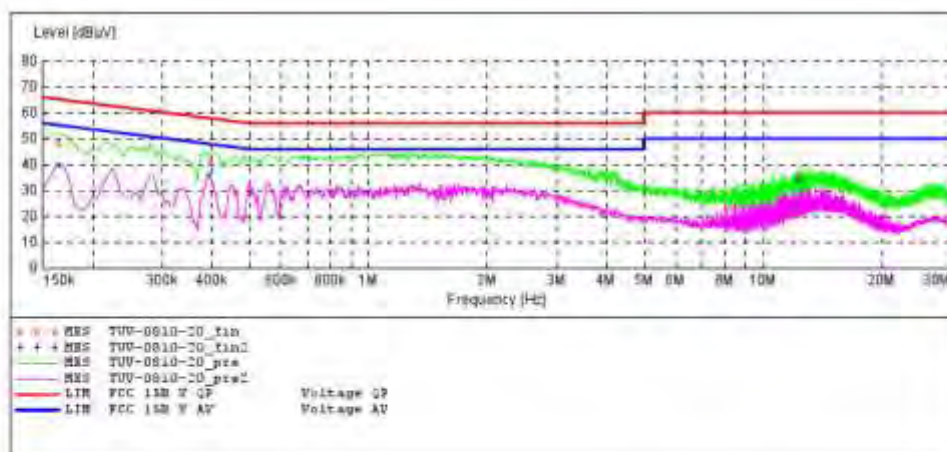
**CONDUCTED EMISSION STANDARD FCC PART 15 B**

EUT: ContextMedia Health M/N:P-WAL-106-ELC-01  
Manufacturer: ContextMedia LLC  
Operating Condition: On with Bluetooth  
Test Site: 1#Shielding Room  
Operator: LGWADE  
Test Specification: L 120V/60Hz  
Comment: Mains Port  
Start of Test: 8/10/2016 /

**SCAN TABLE: "V 9K-30MHz fin"**

Short Description: SUB STD VTERM2 1.70

| Start     | Stop      | Step     | Detector  | Meas. Time | IF Bandw. | Transducer    |
|-----------|-----------|----------|-----------|------------|-----------|---------------|
| Frequency | Frequency | Width    |           |            | Hz        |               |
| 9.0 kHz   | 150.0 kHz | 100.0 Hz | QuasiPeak | 1.0 s      | 200 Hz    | NSLK8126 2008 |
|           |           |          | Average   |            |           |               |
| 150.0 kHz | 30.0 MHz  | 5.0 kHz  | QuasiPeak | 1.0 s      | 9 kHz     | NSLK8126 2008 |
|           |           |          | Average   |            |           |               |



**MEASUREMENT RESULT: "TUV-0810-20\_fin"**

8/10/2016

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.165000         | 48.60         | 10.5         | 65            | 16.6         | QP       | L1   | GND |
| 0.400000         | 41.30         | 10.7         | 58            | 16.6         | QP       | L1   | GND |
| 12.355000        | 35.70         | 11.3         | 60            | 24.3         | QP       | L1   | GND |

**MEASUREMENT RESULT: "TUV-0810-20\_fin2"**

8/10/2016

| Frequency<br>MHz | Level<br>dBuV | Transd<br>dB | Limit<br>dBuV | Margin<br>dB | Detector | Line | PE  |
|------------------|---------------|--------------|---------------|--------------|----------|------|-----|
| 0.165000         | 39.30         | 10.5         | 55            | 15.9         | AV       | L1   | GND |
| 0.395000         | 35.50         | 10.7         | 48            | 12.5         | AV       | L1   | GND |
| 12.355000        | 32.60         | 11.3         | 50            | 17.4         | AV       | L1   | GND |