
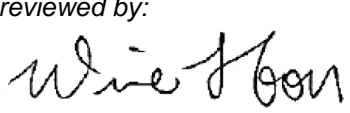


| | | | | | |
|---|---|--|---|--|---|
| Prüfbericht-Nr.: <i>Test report No.:</i> | 50064192 001 | Auftrags-Nr.: <i>Order No.:</i> | 164075914 | Seite 1 von 26 <i>Page 1 of 26</i> | |
| Kunden-Referenz-Nr.: <i>Client reference No.:</i> | N/A | Auftragsdatum: <i>Order date.:</i> | 13.10.2016 | | |
| Auftraggeber: <i>Client:</i> | Binatone Electronics International Ltd. Floor 23A, 9 Des Voeux Road West, Sheung Wan, Hong Kong | | | | |
| Prüfgegenstand: <i>Test item:</i> | 5" Video Baby Monitor (Parent Unit) | | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | COMFORT50PU (Trade Mark: motorola) | | | | |
| Auftrags-Inhalt: <i>Order content:</i> | FCC and IC approval | | | | |
| Prüfgrundlage: <i>Test specification:</i> | CFR47 FCC Part 15: Subpart C Section 15.247 RSS-247 Issue 1 May 2015 CFR47 FCC Part 15: Subpart C Section 15.207 RSS-Gen Issue 4 November 2014 CFR47 FCC Part 15: Subpart C Section 15.209 ICES-003 Issue 6 January 2016 CFR47 FCC Part 15: Subpart B Section 15.107 RSS-102 Issue 5 March 2015 CFR47 FCC Part 15: Subpart B Section 15.109 CFR47 FCC Part 2: Section 2.1091 | | | | |
| Wareneingangsdatum: <i>Date of receipt:</i> | 28.09.2016 | Please refer to photo documents | | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A000409587 017 | | | | |
| Prüfzeitraum: <i>Testing period:</i> | 28.09.2016 - 09.12.2016 | | | | |
| Ort der Prüfung: <i>Place of testing:</i> | Audix Technology (Shenzhen) Co., Ltd. | | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shenzhen) Co., Ltd. | | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | | |
| geprüft von / tested by: | | kontrolliert von / reviewed by: | | | |
|  29.12.2016 Ryan Yang / Senior Project Engineer | |  29.12.2016 Winnie Hou / Technical Certifier | | | |
| Datum <i>Date</i> | Name/Stellung <i>Name/Position</i> | Unterschrift <i>Signature</i> | Datum <i>Date</i> | Name/Stellung <i>Name/Position</i> | Unterschrift <i>Signature</i> |
| Sonstiges / Other: | | | | | |
| FCC ID: VLJ-RM50PU | | | | | |
| IC: 4522A-RM50PU HVIN: COMFORT50PU | | | | | |
| Zustand des Prüfgegenstandes bei Anlieferung: <i>Condition of the test item at delivery:</i> | | | Prüfmuster vollständig und unbeschädigt <i>Test item complete and undamaged:</i> | | |
| * Legende: 1 = sehr gut 2 = gut 3 = befriedigend 4 = ausreichend 5 = mangelhaft P(ass) = entspricht o.g. Prüfgrundlage(n) F(ail) = entspricht nicht o.g. Prüfgrundlage(n) N/A = nicht anwendbar N/T = nicht getestet Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor P(ass) = passed a.m. test specifications(s) F(ail) = failed a.m. test specifications(s) N/A = not applicable N/T = not tested | | | | | |
| 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. <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

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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 A: Photographs of the Test Set-up

Appendix B: Test Results of General 2.4GHz Wireless of Conducted Testing

Appendix C: Test Results of General 2.4GHz Wireless of Radiated Testing

2 Test Sites

2.1 Test Facilities

Audix Technology (Shenzhen) Co., Ltd.

No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, 518057 China

FCC Registration No.: 90454

Test site Industry Canada No.: 5183A-1

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

Audix Technology (Shenzhen) Co., Ltd.

| Radio Spectrum Test | | | | |
|---------------------------------------|---------------------|------------------|-------------------|-------------------|
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| Spectrum | Agilent | N9030A | MY51380221 | 14.10.2017 |
| Conducted Emission on AC Mains | | | | |
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| Test Receiver | R&S | ESCI | 100842 | 23.04.2017 |
| L.I.S.N.#1 | R&S | ESH2-Z5 | 100429 | 17.10.2017 |
| L.I.S.N.#2 | Kyoritsu | K NW-403D | 8-1750-2 | 23.04.2017 |
| Terminator | Hubersuhner | 50Ω | No.1 | 04.05.2017 |
| Terminator | Hubersuhner | 50Ω | No.2 | 04.05.2017 |
| RF Cable | MIYAZAKI | 3D-2W | No.1 | 23.04.2017 |
| Coaxial Switch | Anritsu | MP59B | 6200766906 | 22.04.2017 |
| Spurious Emission, Below 1GHz | | | | |
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| EMI Spectrum | Agilent | E4407B | MY41440292 | 23.04.2017 |
| Test Receiver | R&S | ESVS10 | 834468/011 | 23.04.2017 |
| Amplifier | HP | 8447D | 2648A04738 | 23.04.2017 |
| Loop Antenna | Chase | HLA6120 | 1062 | 24.09.2017 |
| Tri-log-Broadband Antenna | SCHWARZBECK | VULB 9168 | 9168-710 | 19.07.2017 |
| RF Cable | MIYAZAKI | CFD400NL-LW | No.3 | 25.09.2017 |
| Coaxial Switch | Anritsu | MP59B | 6201397222 | 22.04.2017 |
| Attenuator | EMCI | EMCI-N-6-06 | AT-N0639 | 25.09.2017 |
| Spurious Emission, Above 1GHz | | | | |
| Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| 3#Chamber | AUDIX | N/A | N/A | 20.05.2017 |
| Spectrum Analyzer | Agilent | E4446A | US44300459 | 23.04.2017 |
| Horn Antenna | ETS | 3115 | 9510-4877 | 14.10.2017 |
| Amplifier | Agilent | 8449B | 3008A02495 | 23.04.2017 |
| RF Cable | Hubersuhner | SUCOFLEX106 | 505238/6 | 23.04.2017 |

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 | Uncertainty | Remark |
|--------------------------------------|-------------|------------|
| Radiated Emission test in 3m chamber | ±2.8 dB | Below 1GHz |
| Radiated Emission test in 3m chamber | ±5.8 dB | Above 1GHz |
| Conducted Spurious emission test | ±2.0 dB | |
| Output power test | ±0.8 dB | |
| Power density test | ±2.0 dB | |
| Bandwidth | ±83 KHz | |
| Temperature | ±3% | |
| humidity | ±0.6°C | |

2.6 Location of Original Data

The original copies of all test data taken during actual testing were attached at Appendix A & 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 Audix Technology (Shenzhen) Co., Ltd. Test facility located at No. 6, Ke Feng Road, Block 52, Shenzhen Science & Industry Park, Nantou, Shenzhen, Guangdong, 518057 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 5" Video Baby Monitor (Parent Unit) device, it supports general 2.4GHz wireless technology.

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

3.2 Ratings and System Details

Table 2: Technical Specification of EUT

| General Information of EUT | Value |
|---|---|
| Kind of Equipment | 5" Video Baby Monitor (Parent Unit) |
| Type Designation | COMFORT50PU (Trade Mark: motorola) |
| FCC ID | VLJ-RM50PU |
| IC | 4522A-RM50PU |
| HVIN | COMFORT50PU |
| Operating Temperature Range | 5 °C ~ +45 °C |
| Operating Voltage | DC 5.0V 1000mA input via AC/DC adapter DC 3.8V 2020mAh via rechargeable Li-ion battery |
| Testing Voltage | AC 120V, 60Hz |
| AC/DC Adapter | Model: BLJ06W050100P1-U Input: AC 100-240V~50/60Hz, 0.2A Output: DC 5.0V~1000mA |
| Li-ion Battery | Model:BL253 DC 3.8V 2020mAh Li-ion battery |
| Technical Specification of General 2.4GHz Wireless | |
| Operating Frequency | 2415.375 - 2471.625 MHz |
| Type of Modulation | GFSK |
| Channel Number | 21 physical channels |
| Antenna Type | Integral Antenna |
| Antenna Gain | 0 dBi |

Table 3: RF Channel and Frequency of General 2.4GHz Wireless

| RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) | RF Channel | Frequency (MHz) |
|------------|-----------------|------------|-----------------|------------|-----------------|
| 01 | 2415.375 | 08 | 2435.625 | 15 | 2454.750 |
| 02 | 2418.750 | 09 | 2437.875 | 16 | 2458.125 |
| 03 | 2423.250 | 10 | 2440.125 | 17 | 2460.375 |
| 04 | 2426.625 | 11 | 2443.500 | 18 | 2462.625 |
| 05 | 2428.875 | 12 | 2445.750 | 19 | 2466.000 |
| 06 | 2431.125 | 13 | 2449.125 | 20 | 2468.250 |
| 07 | 2433.375 | 14 | 2451.375 | 21 | 2471.625 |

3.3 Independent Operation Modes

The basic operation modes are:

- A. On, General 2.4GHz wireless transmitting
 - 1. Low channel
 - 2. Middle channel
 - 3. High channel
- B. On, General 2.4GHz wireless on hopping channel
- C. On, Charging mode
- D. Off

3.4 Noise Generating and Noise Suppressing Parts

Refer to Circuit Diagram for further details.

3.5 Submitted Documents

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

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 and ANSI C63.4: 2014.

According to clause 3.1, all tests were performed on model Comfort50PU in this report.

4.3 Special Accessories and Auxiliary Equipment

Table 4: List of Accessories and Auxiliary Equipment

| Description | Manufacturer | Model | S/N | Rating |
|-----------------------------------|------------------------|-----------------|-----|--------|
| Laptop | DELL | Laititude E6420 | N/A | N/A |
| 5" Video Baby Monitor (Baby Unit) | Alford Industries Ltd. | Comfort50BU | N/A | N/A |

4.4 Countermeasures to Achieve EMC Compliance

Additional countermeasures to the submitted test sample(s) for Radiated Spurious Emission were employed to achieve compliance.

4.5 Test Setup Diagram

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

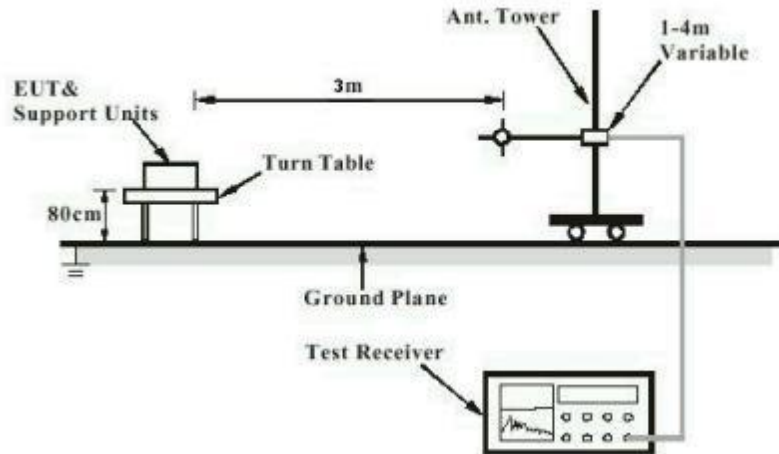


Diagram of Measurement Configuration for Radiation Test (Above 1GHz)

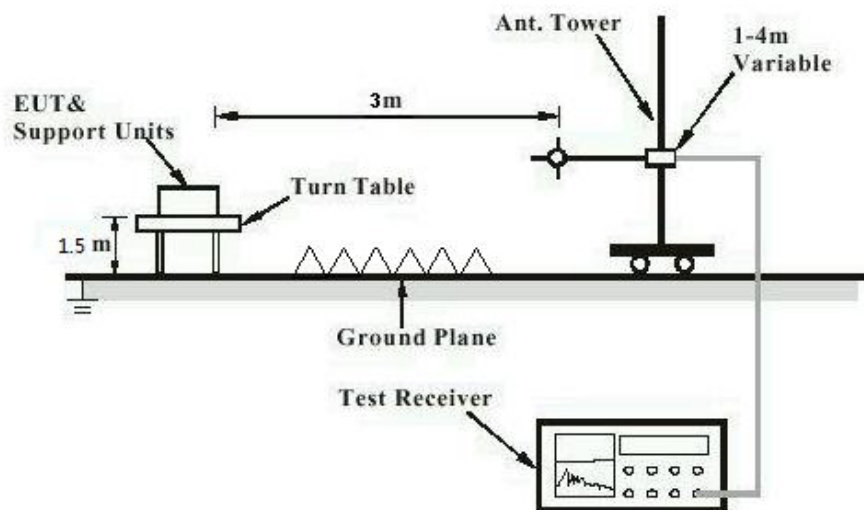


Diagram of Measurement Configuration for Mains Conduction Measurement

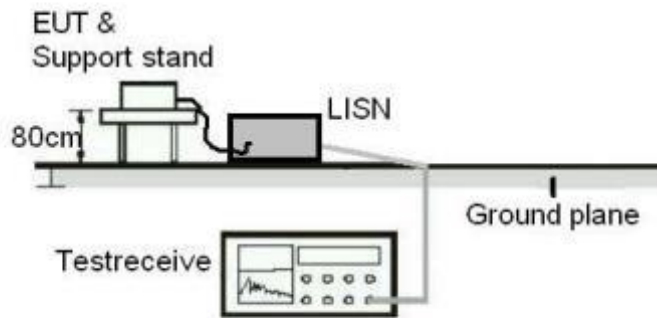
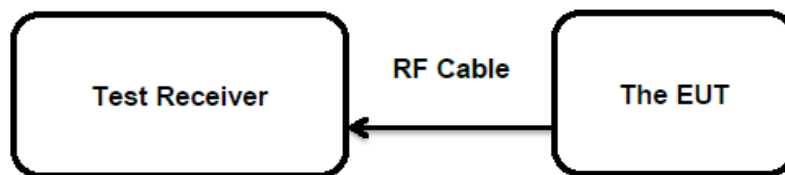


Diagram of Measurement Configuration for Conducted Transmitter Measurement



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

According to the manufacturer declared, the EUT has an internal antenna, the directional gain of antenna is 0 dBi, 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)
RSS-247 Clause 5.4(2)

Basic standard : ANSI C63.10: 2013

Limits : 0.125 Watts

Kind of test site : Shielded Room

Test Setup

Date of testing : 17.11.2016

Input voltage : AC 120V, 60Hz

Operation mode : A

Test channel : Low / Middle / High

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 5: Test Result of Maximum Peak Conducted Output Power

| Test EUT | Frequency (MHz) | Measured Power | | Limit (W) |
|-------------------------------|-----------------|----------------|---------|-----------|
| | | (dBm) | (W) | |
| Parent unit | 2415.375 | 18.672 | 0.07365 | < 0.125 |
| | 2443.500 | 17.874 | 0.06129 | |
| | 2471.625 | 16.772 | 0.04756 | |
| Maximum Measured Value | | 18.672 | 0.07365 | |

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

For the measurement records, refer to the appendix B.

5.1.3 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 : 17.11.2016
 Input voltage : AC 120V, 60Hz
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 25 °C
 Relative humidity : 56 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 6: Test Result of 99% Bandwidth

| Test EUT | Frequency (MHz) | 99% Bandwidth (MHz) | Limit (kHz) |
|-------------------------------|-----------------|---------------------|-------------|
| Parent unit | 2415.375 | 1.702 | / |
| | 2443.500 | 1.706 | |
| | 2471.625 | 1.701 | |
| Maximum Measured Value | | 1.706 | |

For the measurement records, refer to the appendix B.

5.1.4 Conducted Spurious Emissions Measured in 100 kHz Bandwidth

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

| | |
|-------------------|--|
| Test standard | : FCC Part 15.247(d) 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); In addition, radiated emissions which fall in the restricted bands, must also comply with the radiated emission limits specified in 15.209(a) |
| Kind of test site | : Shielded Room |

Test Setup

| | |
|----------------------|-----------------------|
| Date of testing | : 17.11.2016 |
| Input voltage | : AC 120V, 60Hz |
| Operation mode | : A |
| Test channel | : Low / Middle / High |
| Ambient temperature | : 25 °C |
| Relative humidity | : 56 % |
| Atmospheric pressure | : 101 kPa |

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix B.

5.1.5 Radiated Spurious Emission

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

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

Test Setup

| | |
|----------------------|-----------------------|
| Date of testing | : Refer to results |
| Input voltage | : AC 120V, 60Hz |
| Operation mode | : A |
| Test channel | : Low / Middle / High |
| Ambient temperature | : 25 °C |
| Relative humidity | : 56 % |
| Atmospheric pressure | : 101 kPa |

Remark:

Testing was carried out within frequency range 9kHz to the tenth harmonics. Only the worst case spurious emissions configuration of the each mode were reported.

For the measurement records, refer to the appendix C.

5.1.6 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 : 17.11.2016
 Input voltage : AC 120V, 60Hz
 Operation mode : A
 Test channel : Low / Middle / High
 Ambient temperature : 25 °C
 Relative humidity : 56 %
 Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 7: Test Result of 20dB Bandwidth

| Test EUT | Frequency (MHz) | 20dB Bandwidth (kHz) | 2/3 of 20dB Bandwidth (kHz) | Limit (MHz) |
|-------------------------------|-----------------|----------------------|-----------------------------|-------------|
| Parent unit | 2415.375 | 1675.00 | 1116.667 | / |
| | 2443.500 | 1659.00 | 1106.000 | |
| | 2471.625 | 1673.00 | 1115.333 | |
| Maximum Measured Value | | 1675.00 | 1116.667 | / |

For the measurement records, refer to the appendix B.

5.1.7 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 | : 09.12.2016 |
| Input voltage | : AC 120V, 60Hz |
| Operation mode | : B |
| Test channel | : Low / Middle / High |
| Ambient temperature | : 25 °C |
| Relative humidity | : 56 % |
| Atmospheric pressure | : 101 kPa |

For details refer to following test result.

Table 8: Test Result of Carrier Frequency Separation

| Test EUT | Test Channel | Frequency (MHz) | Measured Channel Separation (KHz) | Limit (kHz) |
|-------------|-------------------|-----------------|-----------------------------------|--|
| Parent unit | Low Channel | 2415.375 | 3380.0 | $\geq 25\text{kHz}$ or $2/3$ of 20dB bandwidth |
| | Adjacency Channel | 2418.750 | | |
| | Middle Channel | 2443.500 | 2280.0 | |
| | Adjacency Channel | 2445.750 | | |
| | High Channel | 2471.625 | 2280.0 | |
| | Adjacency Channel | 2468.250 | | |

Note: The limit is maximum $2/3$ of the 20 dB bandwidth: 1116.667 KHz.

For the measurement records, refer to the appendix B.

5.1.8 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 : ≥ 15 non-overlapping channels

Kind of test site : Shielded Room

Test Setup

Date of testing : 17.11.2016

Input voltage : AC 120V, 60Hz

Operation mode : B

Ambient temperature : 25 °C

Relative humidity : 56 %

Atmospheric pressure : 101 kPa

For details refer to following test result.

Table 9: Test Result of Number of Hopping Frequency

| Test EUT | Frequency Range | Measured Quantity of Hopping Channel | Limit |
|-------------|----------------------------|--------------------------------------|-----------|
| Parent unit | 2415.375 - 2471.625 MHz | 21 | ≥ 15 |

For the measurement records, refer to the appendix B.

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

| | |
|-------------------|---|
| Test standard | : FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Clause 8.8 & ICES-003 |
| Basic standard | : ANSI C63.10: 2013 & ANSI C63.4: 2014 |
| Frequency range | : 0.15 – 30MHz |
| Limits | : FCC Part 15.207(a) & FCC Part 15.107(a) RSS-Gen Table 3 & ICES-003 Table 2 |
| Kind of test site | : Shielded Room |

Test Setup

| | |
|----------------------|--------------------|
| Date of testing | : Refer to results |
| Input voltage | : AC 120V, 60Hz |
| Operation mode | : A, C |
| Earthing | : Not connected |
| Ambient temperature | : 24 °C |
| Relative humidity | : 53 % |
| Atmospheric pressure | : 101 kPa |

For the measurement records, refer to the appendix C.

5.1.11 Radiated Emission**RESULT:****Pass****Test Specification**

| | |
|-------------------|--|
| Test standard | : FCC Part 15.109(a) ICES-003 |
| Basic standard | : ANSI C63.4: 2014 |
| Frequency range | : 30 - 6000MHz |
| Classification | : Class B |
| Limits | : FCC Part 15.109(a) ICES-003 Table 5 & Table 7 |
| Kind of test site | : 3m Semi-anechoic Chamber |

Test Setup

| | |
|----------------------|--------------------|
| Date of testing | : Refer to results |
| Input voltage | : AC 120V, 60Hz |
| Operation mode | : C |
| Earthing | : Not connected |
| Ambient temperature | : 24 °C |
| Relative humidity | : 48 % |
| 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: Section 2.1091
CFR47 FCC Part 1: Section 1.1310
FCC KDB Publication 447498 v06
FCC KDB Publication 865664 D02 v01r02
OET Bulletin 65 (Edition 97-01)
RSS-102 Issue 5 March 2015

➤ FCC requirements

FCC requirement: Systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess limit for maximum permissible exposure. In accordance with 47 CFR FCC Part 2 Subpart J, section 2.1091 this device has been defined as a mobile device whereby a distance of 20cm normally can be maintained between the user and the device.

MPE Calculation Method according to OET Bulletin 65

Power Density: $S_{(mW/cm^2)} = PG/4\pi R^2$ or $EIRP/4\pi R^2$

Where:

S = power density (mW/cm²)

P = power input to the antenna (mW)

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna (cm)

The nominal conducted output power specified:

2.4GHz FHSS: 19.00 dBm (Tolerance: ± 2 dB)

From the peak RF output power, the minimum mobile separation distance, d=20 cm, as well as the antenna gain (Max. 0.0 dBi for 2.4GHz FHSS), the RF power density can be calculated as below:

For 2.4GHz FHSS: $S_{(mW/cm^2)} = PG/4\pi R^2 = 0.025$ mW/cm²

Limits for Maximum Permissible Exposure (MPE) according to FCC Part 1.1310:

1.0 mW/cm²

➤ **IC requirements:** The EUT shall comply with the requirement of RSS-102 section 2.5.2.

Exemption from Routine Evaluation Limits – RF Exposure Evaluation

RF exposure evaluation is required if the separation distance between the user and/or bystander and the device's radiating element is greater than 20 cm, except when the device operates as follows:

at or above 300 MHz and below 6 GHz and the source-based, time-averaged maximum e.i.r.p. of the device is equal to or less than $1.31 \times 10^{-2} f^{0.6834}$ W (adjusted for tune-up tolerance), where f is in MHz;

- RF exposure evaluation exempted power for 2.4GHz FHSS: 2.679 W

The nominal conducted output power specified:

2.4GHz FHSS: 19.00 dBm (Tolerance: ± 2 dB)

Antenna Gain: 0.0 dBi for 2.4GHz FHSS

The Max. e.i.r.p. for 2.4GHz FHSS = 21.00 dBm \approx 0.126 W is less than the RF exposure evaluation exempted power. So RF exposure evaluation is not required.

“RF Radiation Exposure Statement Caution: This Transmitter must be installed to provide a separation distance of at least 20 cm from all persons.”

7 Photographs of the Test Set-Up

For photographs of the test set-up, refer to the appendix A.

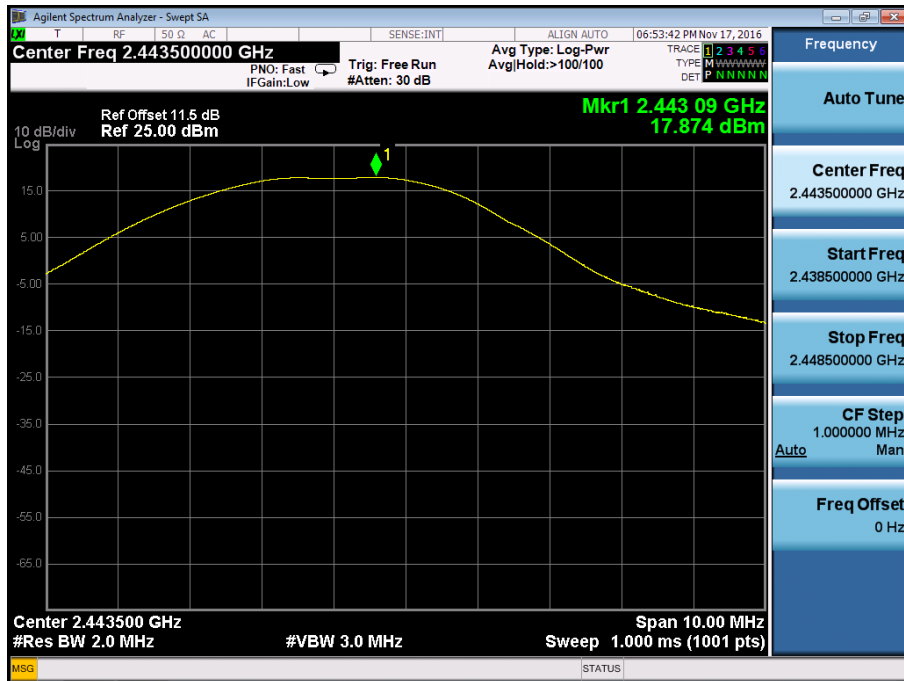
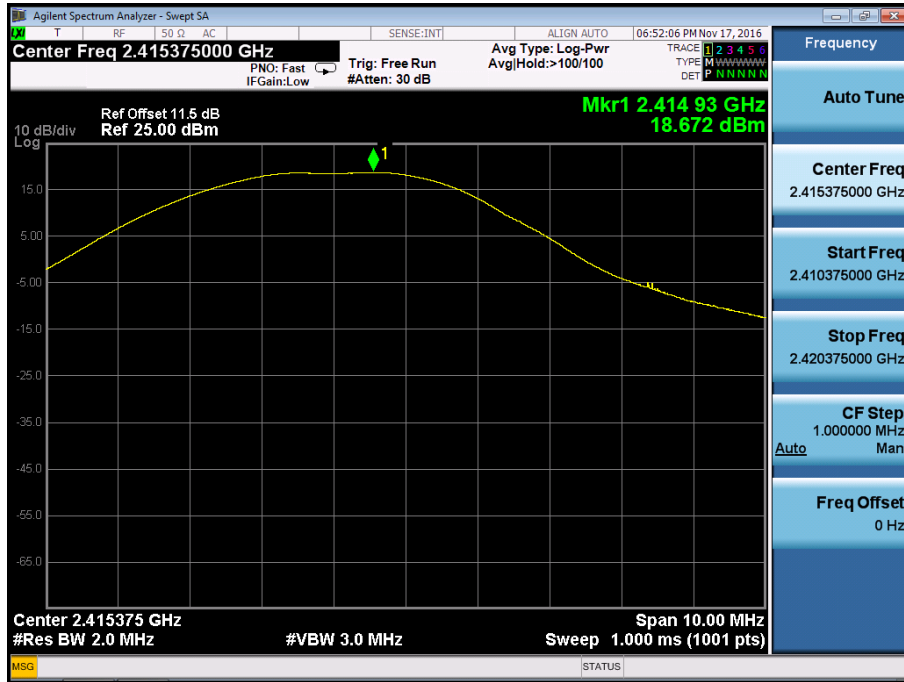
8 List of Tables

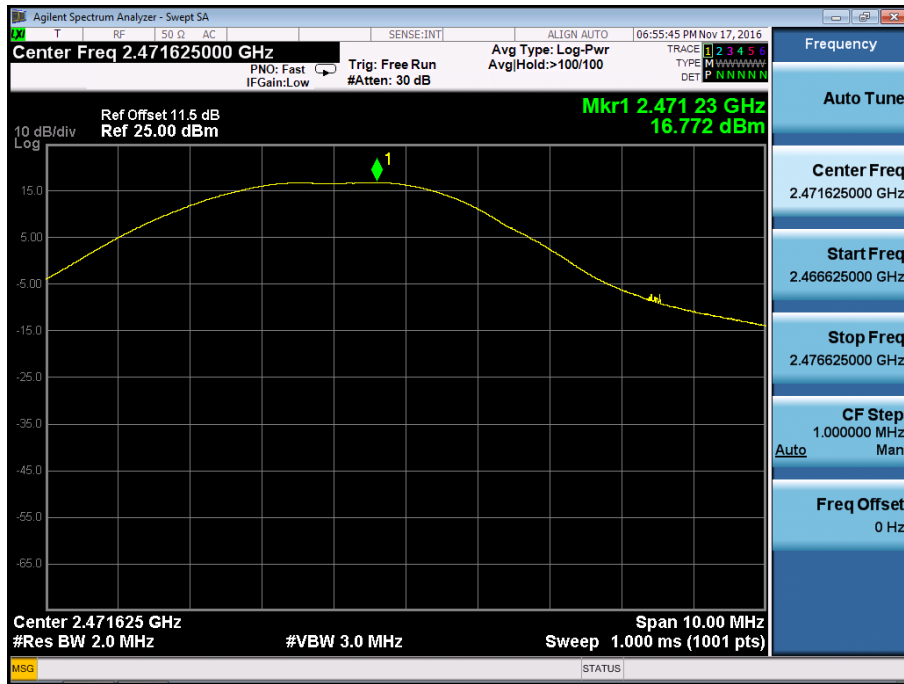
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Appendix B: Test Results of Conducted Testing

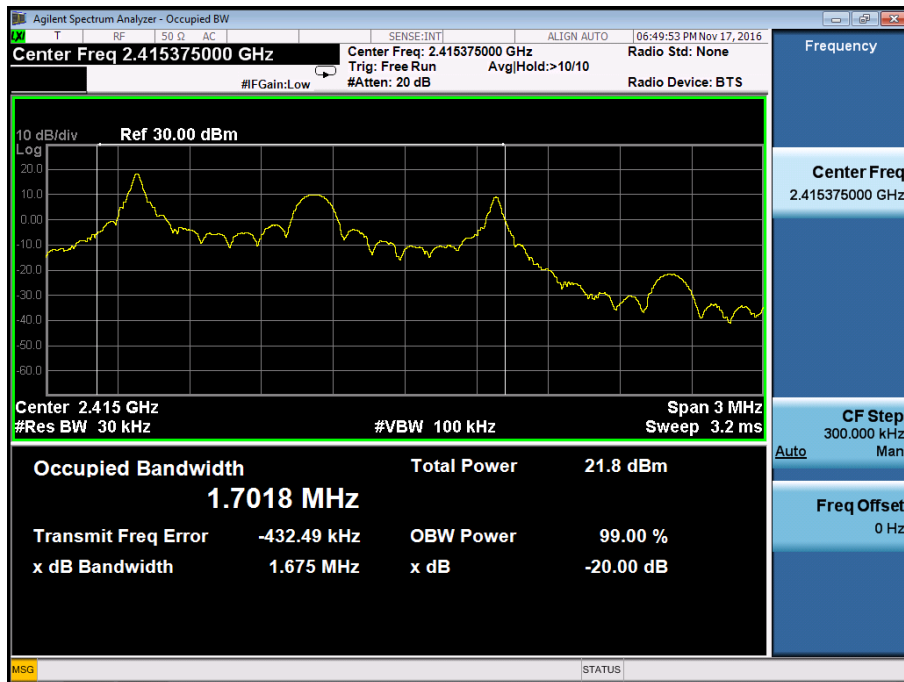
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|--|-----------|
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| <i>High Channel.....</i> | <i>14</i> |

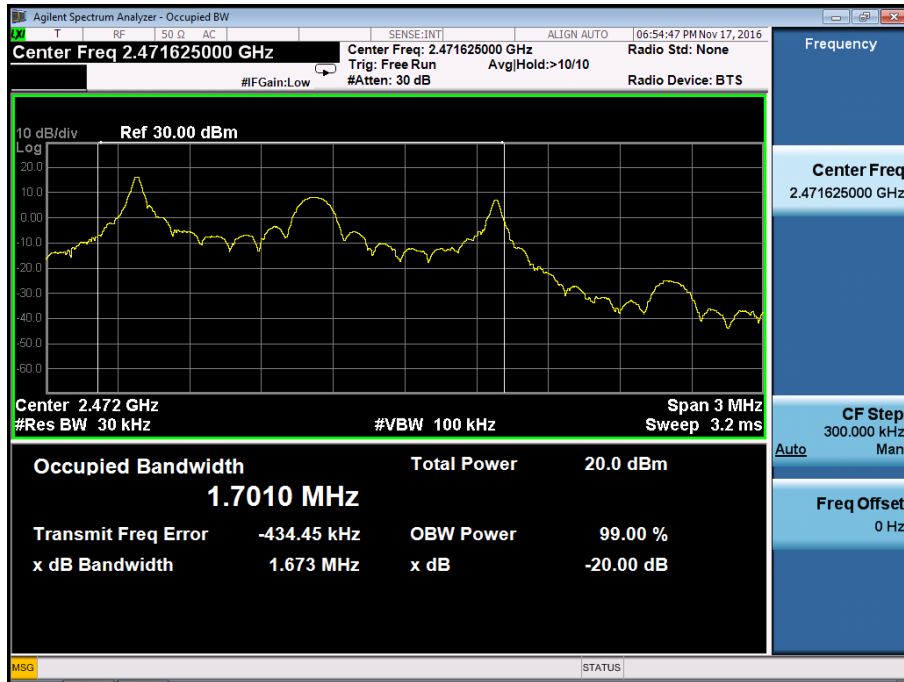
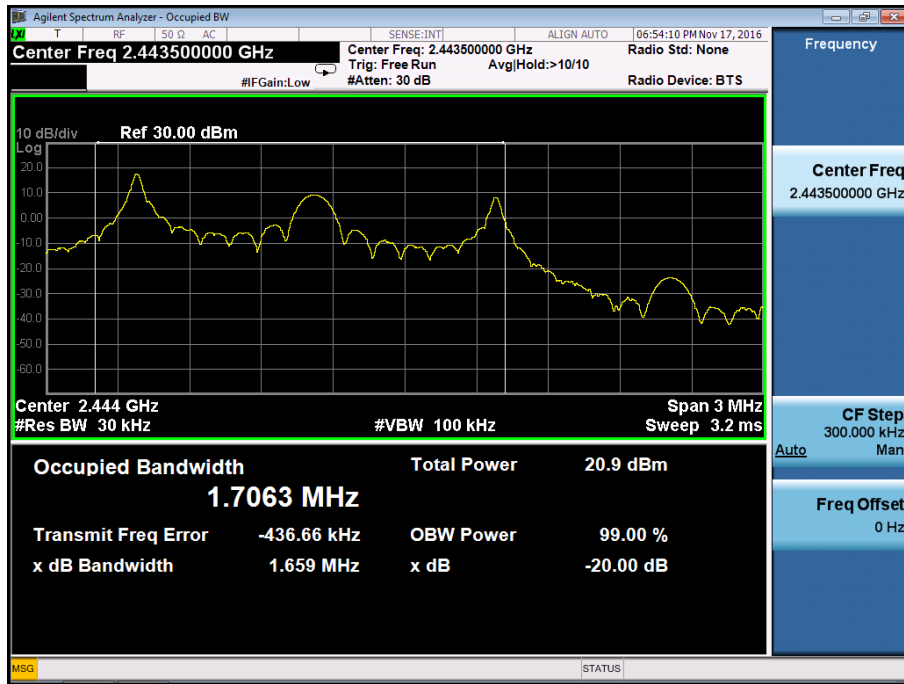
Appendix B.1: Maximum Peak Conducted Output Power





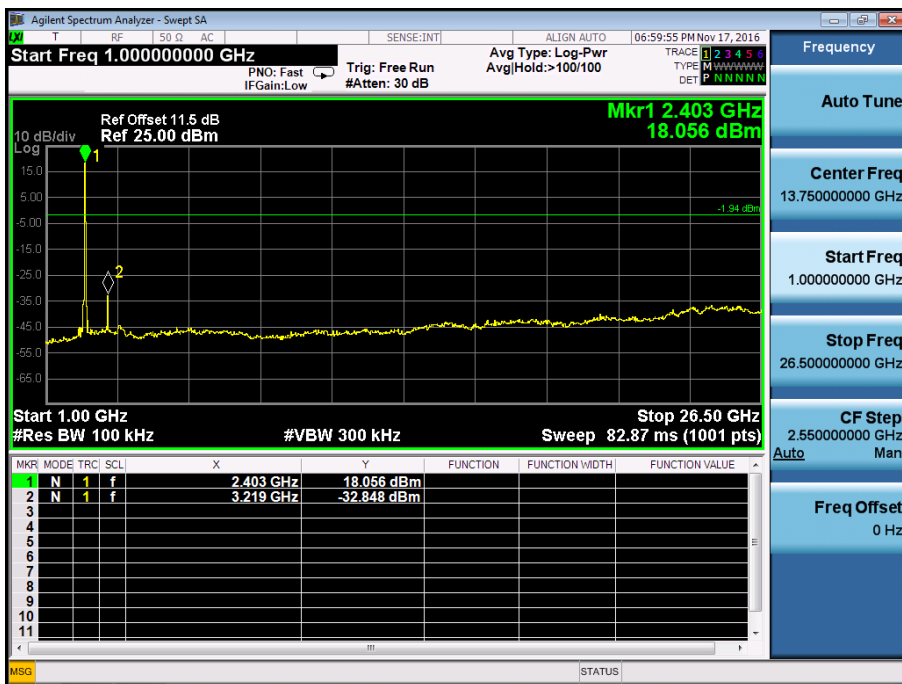
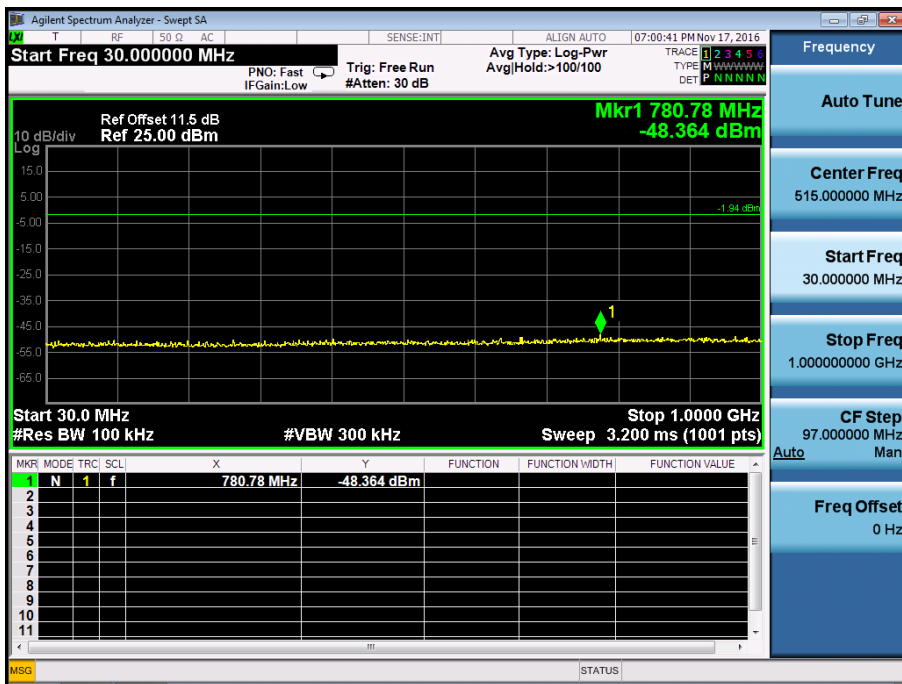
Appendix B.2: 20dB Bandwidth & 99% Bandwidth



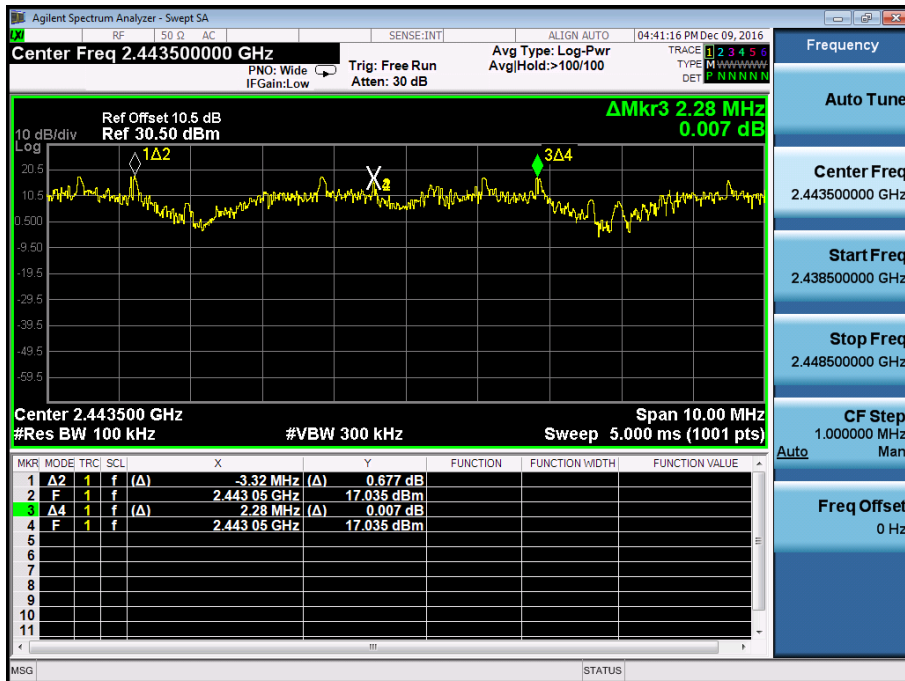


Appendix B.3: Conducted Spurious Emissions Measured in 100 kHz Bandwidth

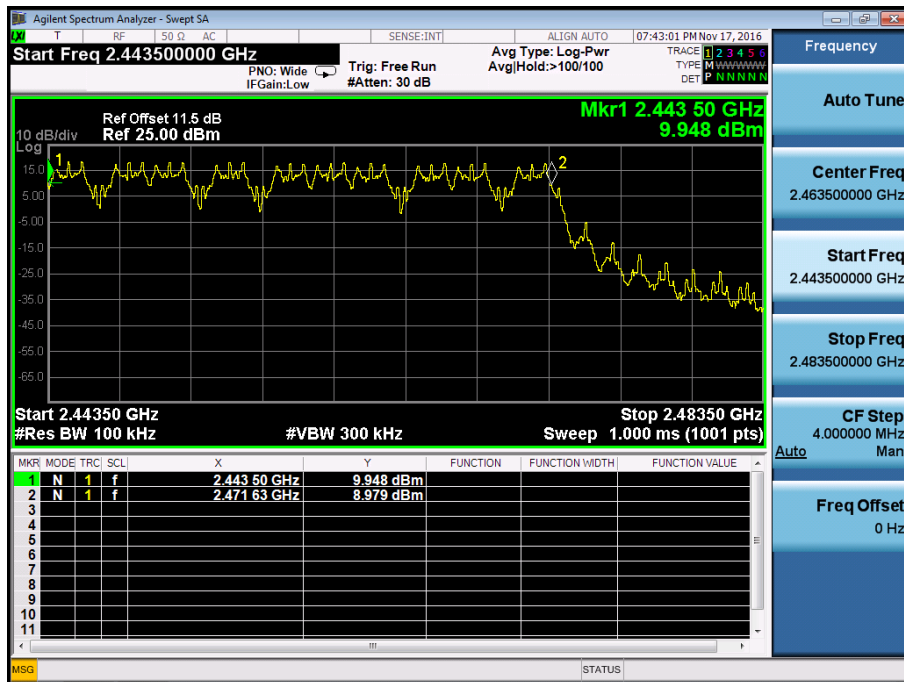
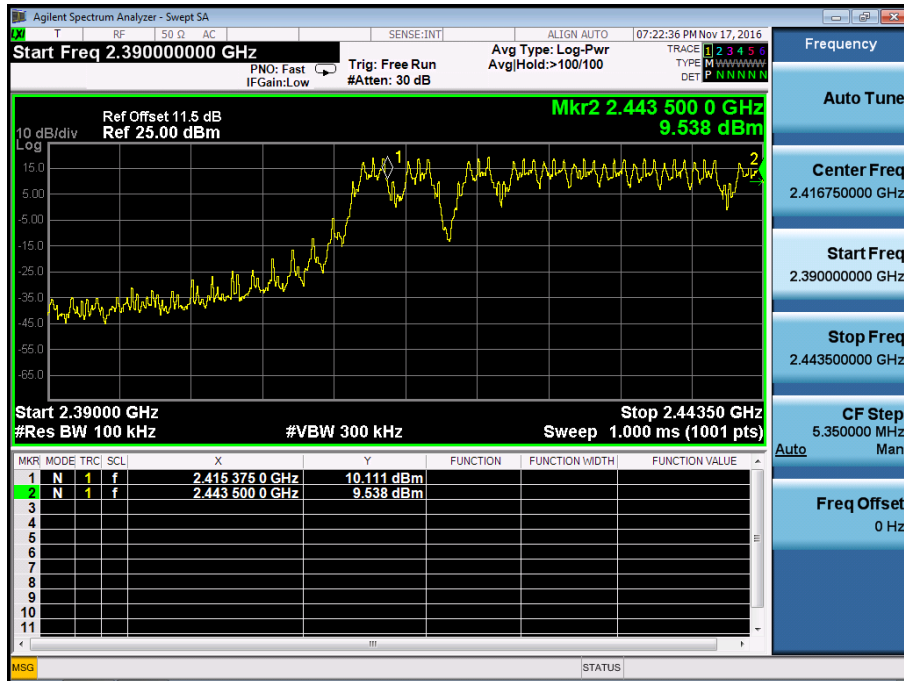
Low Channel



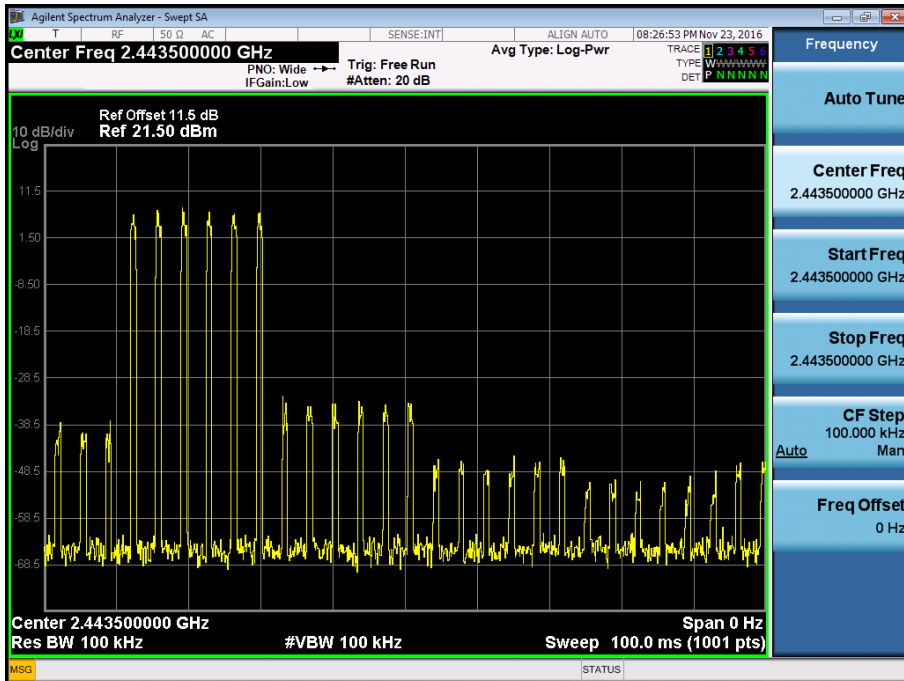
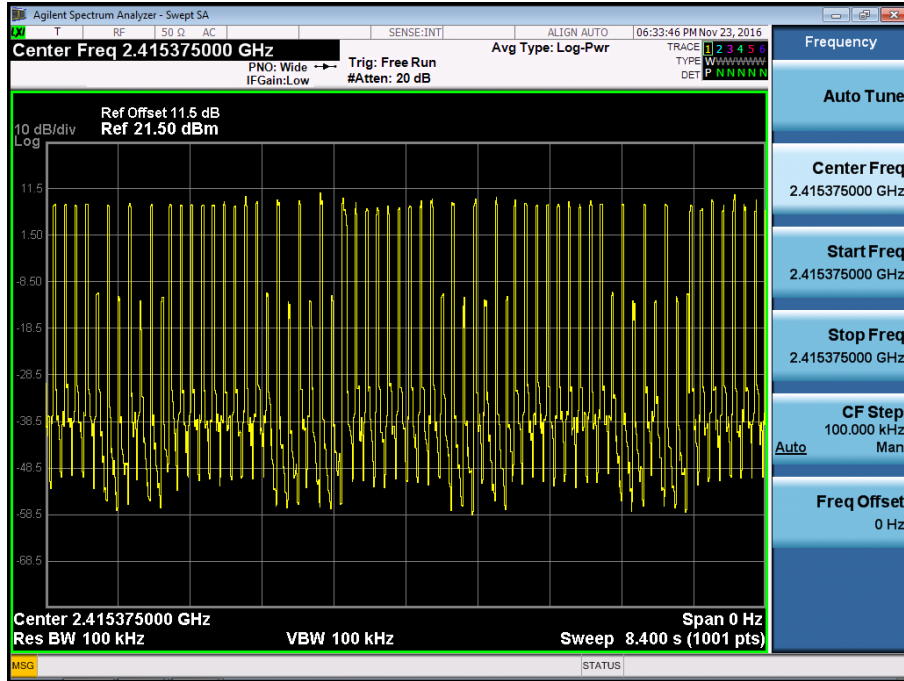
Appendix B.4: Carrier Frequency Separation



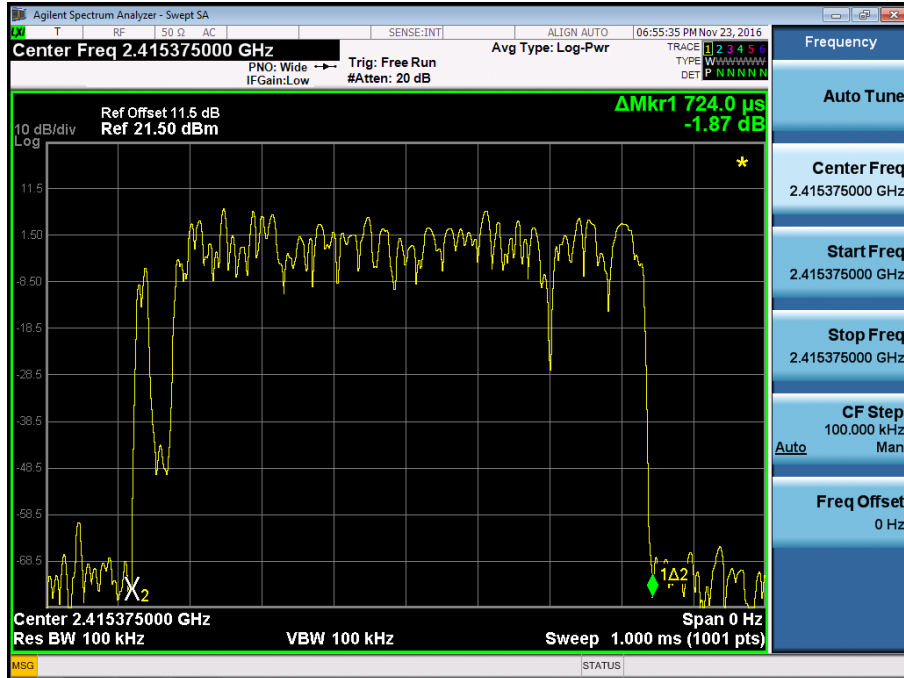
Appendix B.5: Number of Hopping Frequency



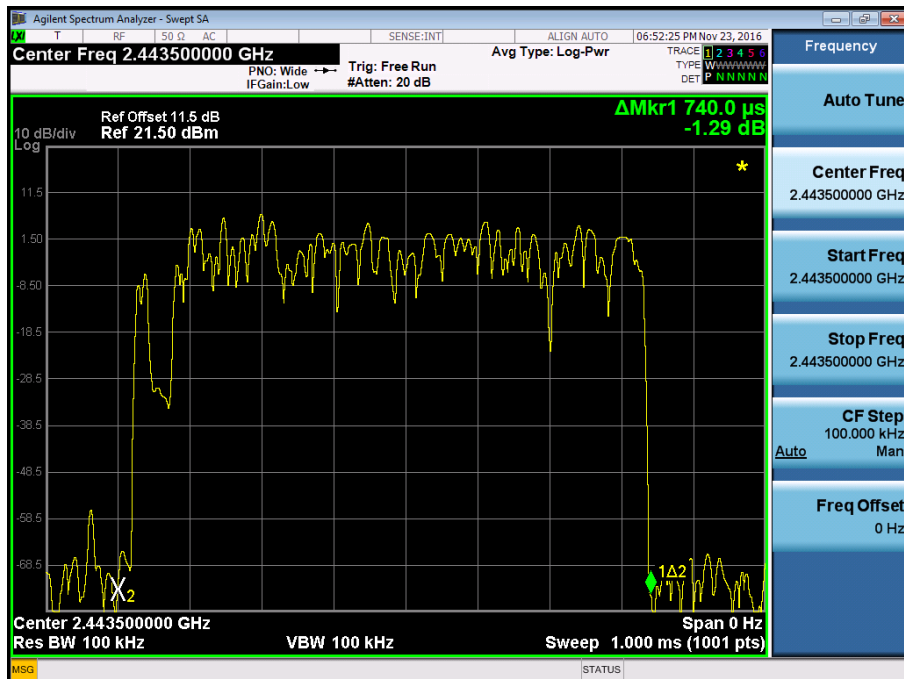
Appendix B.6: Time of Occupancy



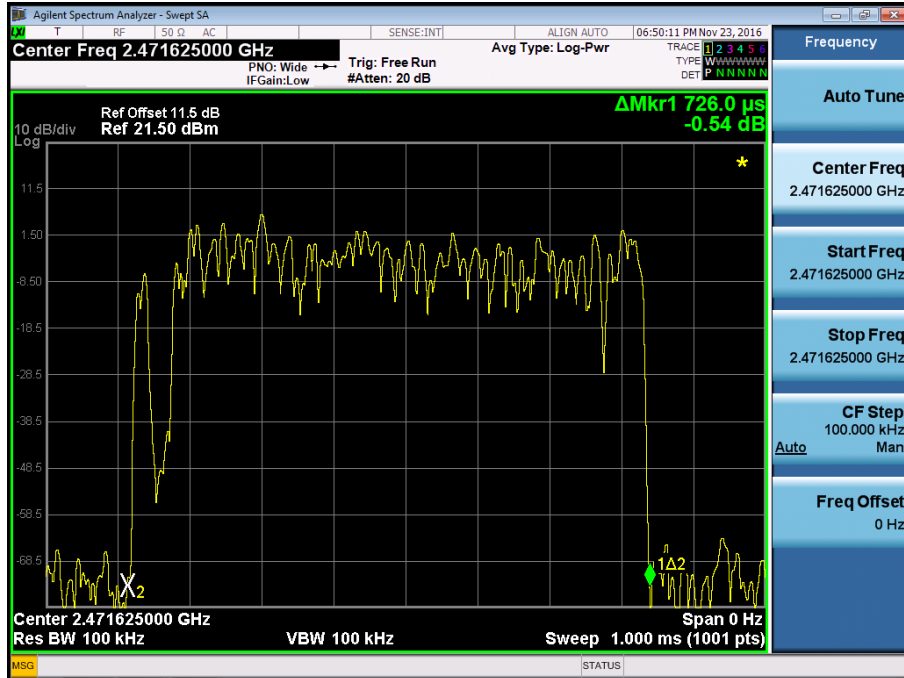
Low Channel



Middle Channel



High Channel



Appendix C: Test Results of Radiated Testing

| | |
|---|-----------|
| APPENDIX C: TEST RESULTS OF RADIATED TESTING | 1 |
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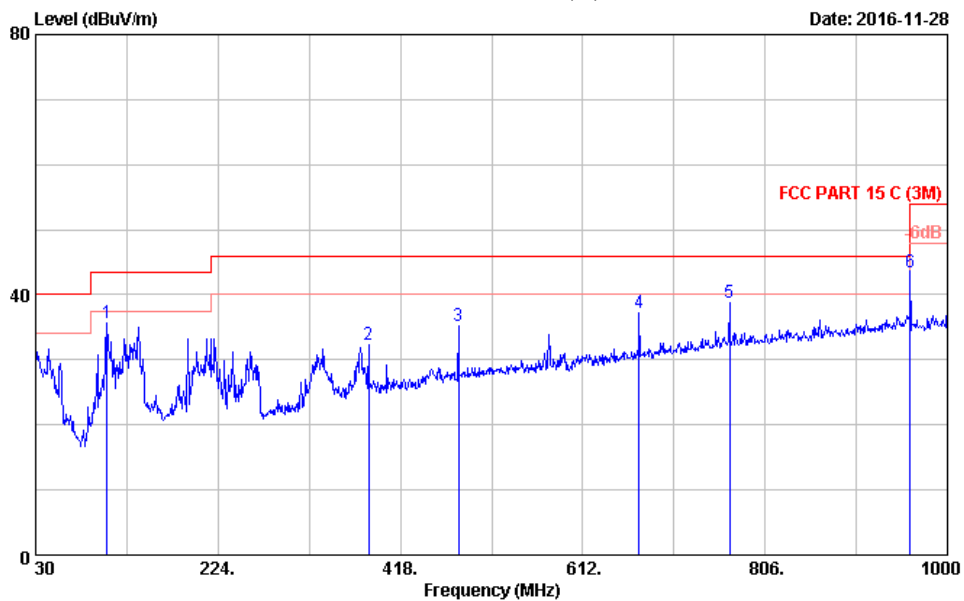
Note: Testing was carried out within frequency range 9kHz to the tenth harmonics. The measurement results below 30MHz and above 18GHz were greater than 20dB below the limit, so only the radiated spurious emissions from 30MHz to 18GHz were reported.

Appendix C.1: Test Results of Radiated Spurious Emissions 30MHz - 1GHz, Low Channel



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Postcode:518057

Data: 1 File: E:\2016 Test Data\TUV20161125-rf.EM6 (12) Date: 2016-11-28



Site no. : 3m Chamber Data no. : 1
Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
EUT : Baby Monitor M/N:Roomie 50
Power rating : DC 5V From adapter Input AC 120V/60Hz
Test Mode : GFSK 2415.375MHz TX mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 105.660 | 16.21 | 1.13 | 46.60 | 35.73 | 43.50 | 7.77 | QP |
| 2 | 384.050 | 21.84 | 2.37 | 35.91 | 32.37 | 46.00 | 13.63 | QP |
| 3 | 480.080 | 23.67 | 2.69 | 37.09 | 35.31 | 46.00 | 10.69 | QP |
| 4 | 672.140 | 26.61 | 3.41 | 35.72 | 37.24 | 46.00 | 8.76 | QP |
| 5 | 768.170 | 28.16 | 3.84 | 35.00 | 38.67 | 46.00 | 7.33 | QP |
| 6 | 960.000 | 30.01 | 4.49 | 9.00 | 43.50 | 46.00 | 2.50 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

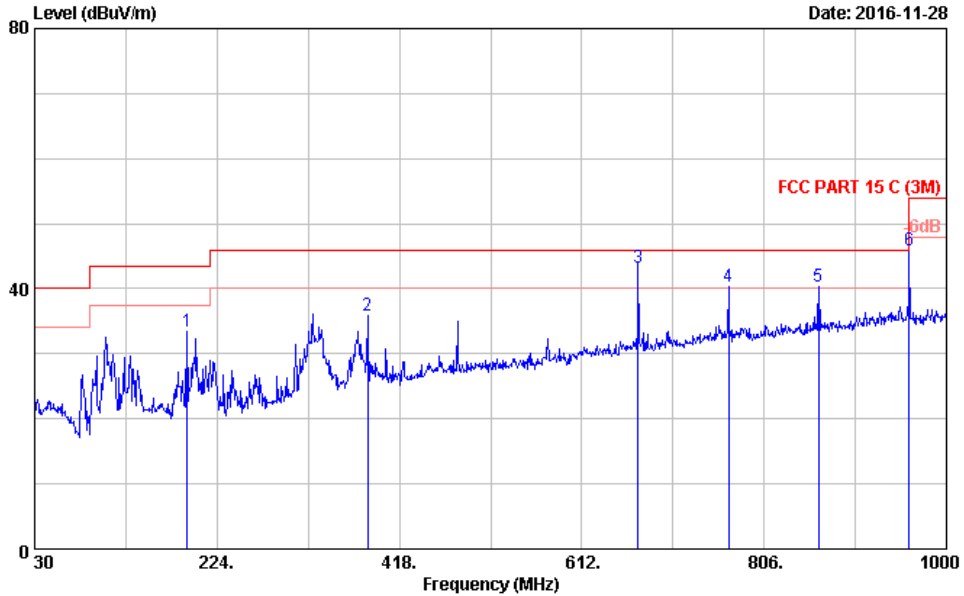


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Postcode:518057

Data: 2

File: E:\2016 Test Data\TUV\20161125-rf.EM6 (12)

Date: 2016-11-28



Site no. : 3m Chamber Data no. : 2
 Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
 EUT : Baby Monitor M/N:Roomie 50
 Power rating : DC 5V From adapter Input AC 120V/60Hz
 Test Mode : GFSK 2415.375MHz TX mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 191.990 | 17.04 | 1.01 | 43.27 | 33.47 | 43.50 | 10.03 | QP |
| 2 | 384.050 | 21.84 | 2.37 | 39.51 | 35.97 | 46.00 | 10.03 | QP |
| 3 | 672.010 | 26.61 | 3.41 | 13.10 | 43.12 | 46.00 | 2.88 | QP |
| 4 | 768.170 | 28.16 | 3.84 | 36.57 | 40.24 | 46.00 | 5.76 | QP |
| 5 | 864.200 | 28.87 | 4.21 | 35.24 | 40.28 | 46.00 | 5.72 | QP |
| 6 | 960.000 | 30.01 | 4.49 | 11.40 | 45.90 | 46.00 | 0.10 | QP |

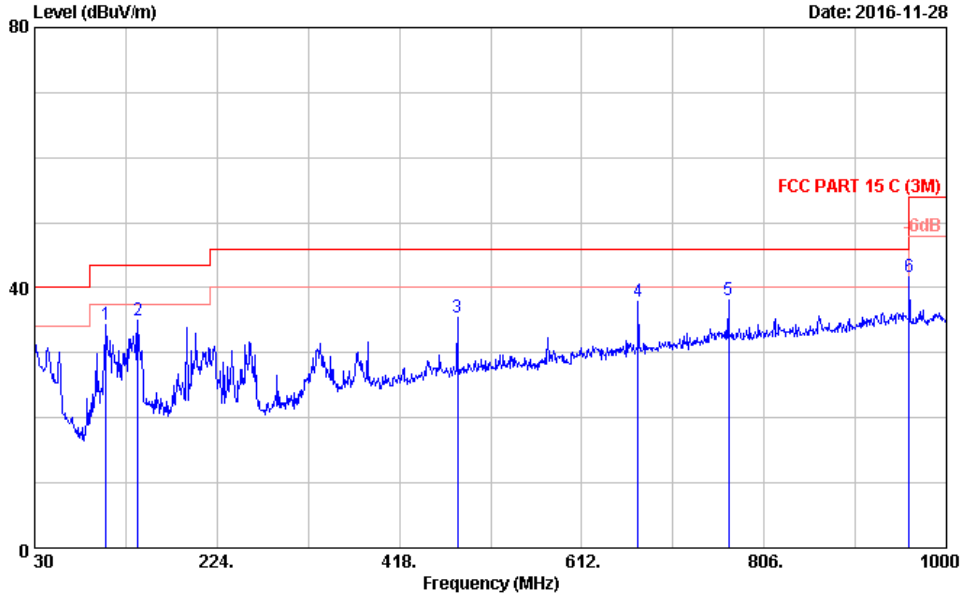
Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

30MHz - 1GHz, Middle Channel



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Data: 3 File: E:\2016 Test Data\TUV20161125-rf.EM6 (12) Date: 2016-11-28



Site no. : 3m Chamber Data no. : 3
Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
EUT : Baby Monitor M/N:Roomie 50
Power rating : DC 5V From adapter Input AC 120V/60Hz
Test Mode : GFSK 2443.5MHz TX mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 105.660 | 16.21 | 1.13 | 45.25 | 34.38 | 43.50 | 9.12 | QP |
| 2 | 139.610 | 19.28 | 1.08 | 42.76 | 35.05 | 43.50 | 8.45 | QP |
| 3 | 480.080 | 23.67 | 2.69 | 37.10 | 35.32 | 46.00 | 10.68 | QP |
| 4 | 672.140 | 26.61 | 3.41 | 36.31 | 37.83 | 46.00 | 8.17 | QP |
| 5 | 768.170 | 28.16 | 3.84 | 34.42 | 38.09 | 46.00 | 7.91 | QP |
| 6 | 960.230 | 30.01 | 4.49 | 34.77 | 41.58 | 54.00 | 12.42 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

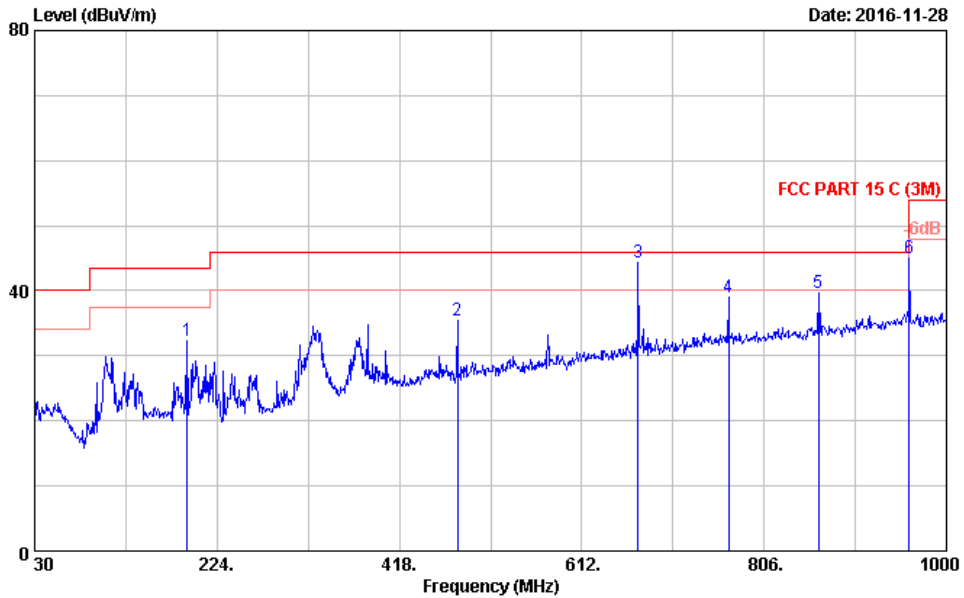


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Postcode:518057

Data: 4

File: E:\2016 Test Data\TUV\20161125-rf.EM6 (12)

Date: 2016-11-28



Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
EUT : Baby Monitor M/N:Roomie 50
Power rating : DC 5V From adapter Input AC 120V/60Hz
Test Mode : GFSK 2443.5MHz TX mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 191.990 | 17.04 | 1.01 | 42.15 | 32.35 | 43.50 | 11.15 | QP |
| 2 | 480.080 | 23.67 | 2.69 | 37.12 | 35.34 | 46.00 | 10.66 | QP |
| 3 | 672.140 | 26.61 | 3.41 | 42.88 | 44.40 | 46.00 | 1.60 | QP |
| 4 | 768.170 | 28.16 | 3.84 | 35.32 | 38.99 | 46.00 | 7.01 | QP |
| 5 | 864.200 | 28.87 | 4.21 | 34.70 | 39.74 | 46.00 | 6.26 | QP |
| 6 | 960.230 | 30.01 | 4.49 | 38.11 | 44.92 | 54.00 | 9.08 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

30MHz - 1GHz, High Channel

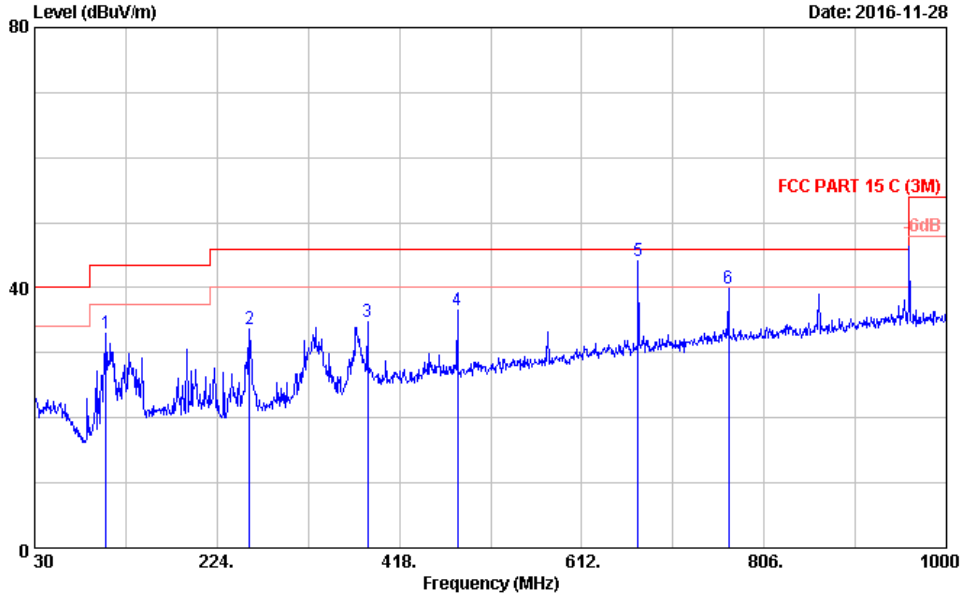


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Postcode: 518057

Data: 5

File: E:\2016 Test Data\TUV20161125-rf.EM6 (12)

Date: 2016-11-28



Site no. : 3m Chamber Data no. : 5
 Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15 C (3M)
 Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
 EUT : Baby Monitor M/N:Roomie 50
 Power rating : DC 5V From adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625MHz TX mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 105.660 | 16.21 | 1.13 | 43.76 | 32.89 | 43.50 | 10.61 | QP |
| 2 | 258.920 | 18.52 | 1.59 | 41.22 | 33.75 | 46.00 | 12.25 | QP |
| 3 | 384.050 | 21.84 | 2.37 | 38.28 | 34.74 | 46.00 | 11.26 | QP |
| 4 | 480.080 | 23.67 | 2.69 | 38.35 | 36.57 | 46.00 | 9.43 | QP |
| 5 | 672.140 | 26.61 | 3.41 | 42.61 | 44.13 | 46.00 | 1.87 | QP |
| 6 | 768.170 | 28.16 | 3.84 | 36.24 | 39.91 | 46.00 | 6.09 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
 2. The emission levels that are 20dB below the official limit are not reported.

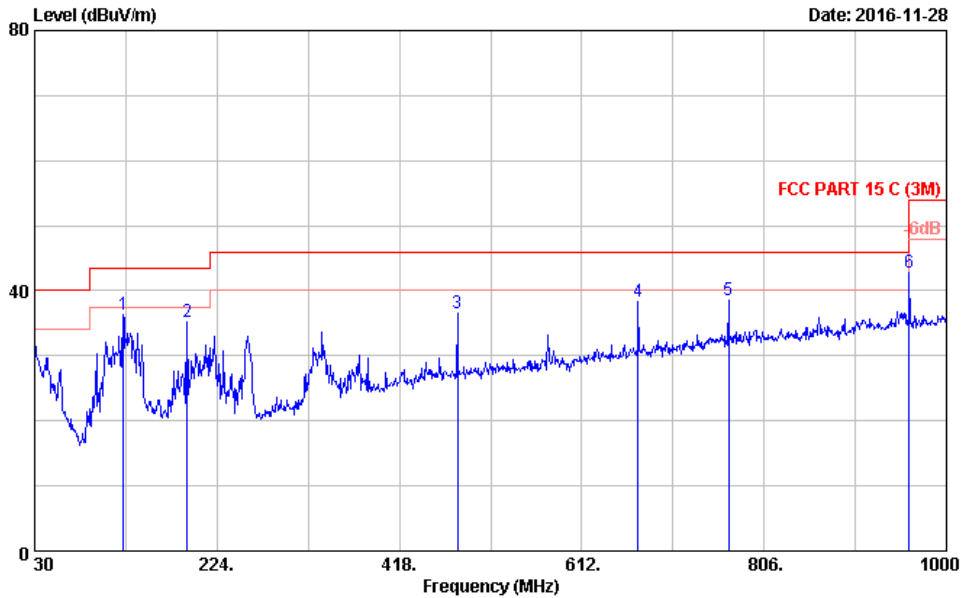


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Data: 6

File: E:\2016 Test Data\TUV\20161125-rf.EM6 (12)

Date: 2016-11-28



Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m ANT 2016 9168 710 Ant. pol. : VERTICAL
Limit : FCC PART 15 C (3M)
Env. / Ins. : 22.1°C/51.3% Engineer : Alvis-Wu
EUT : Baby Monitor M/N:Roomie 50
Power rating : DC 5V From adapter Input AC 120V/60Hz
Test Mode : GFSK 2471.625MHz TX mode

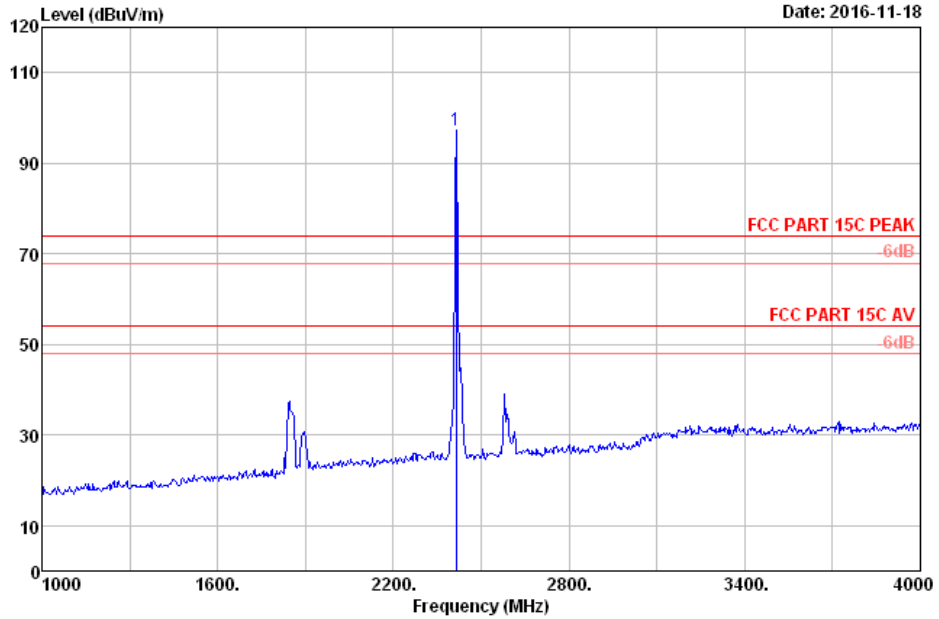
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-------------------------|-----------------|-------------|--------|
| 1 | 124.090 | 17.59 | 1.11 | 45.72 | 36.29 | 43.50 | 7.21 | QP |
| 2 | 191.990 | 17.04 | 1.01 | 45.07 | 35.27 | 43.50 | 8.23 | QP |
| 3 | 480.080 | 23.67 | 2.69 | 38.33 | 36.55 | 46.00 | 9.45 | QP |
| 4 | 672.140 | 26.61 | 3.41 | 36.90 | 38.42 | 46.00 | 7.58 | QP |
| 5 | 768.170 | 28.16 | 3.84 | 34.84 | 38.51 | 46.00 | 7.49 | QP |
| 6 | 960.230 | 30.01 | 4.49 | 35.97 | 42.78 | 54.00 | 11.22 | QP |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading.
2. The emission levels that are 20dB below the official limit are not reported.

1GHz - 18GHz, Low Channel



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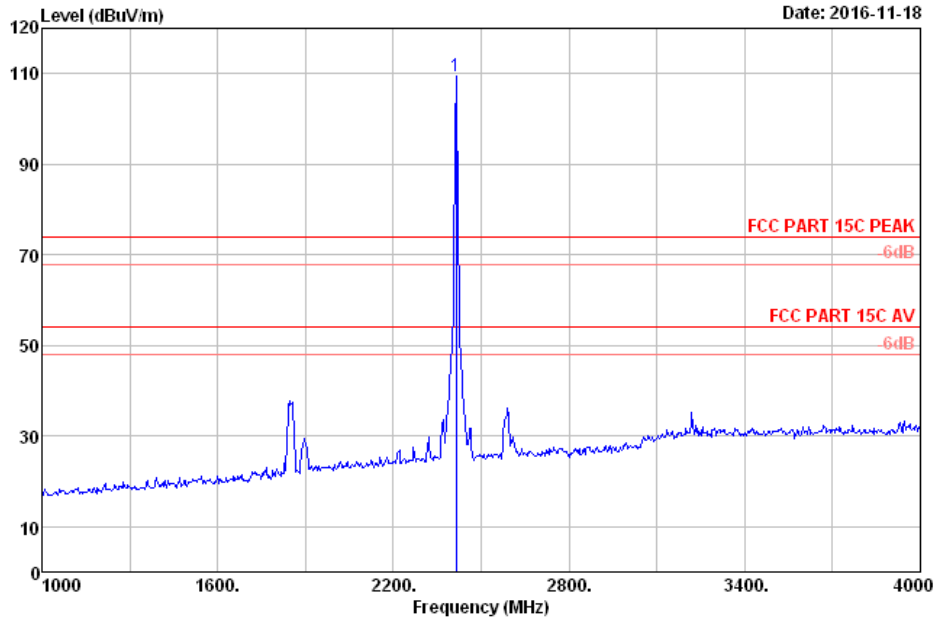
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Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2415.375MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2415.38 | 28.16 | 8.35 | 97.08 | 36.39 | 97.20 | 74.00 | -23.20 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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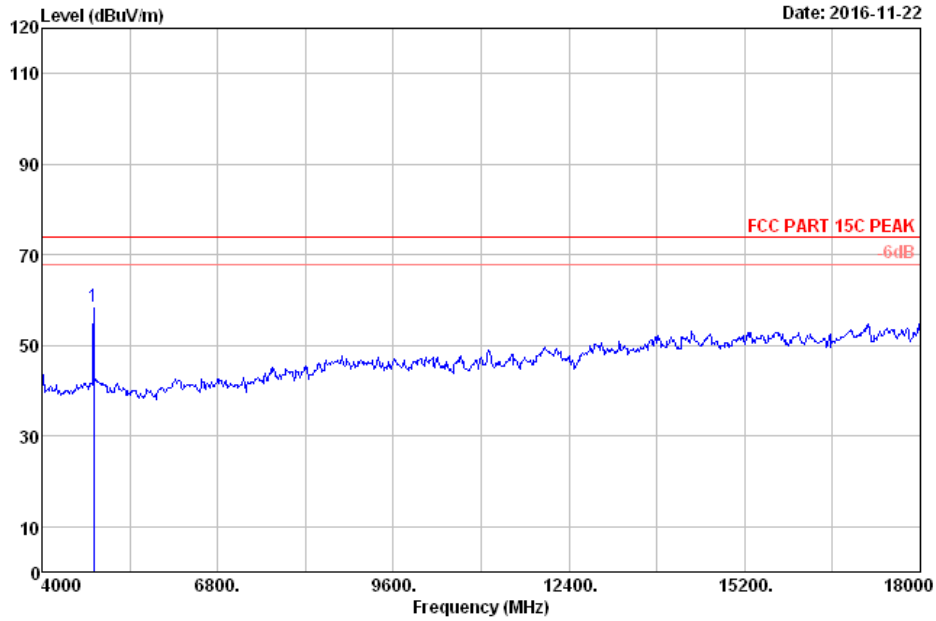
Site no. : 3m Chamber Data no. : 2
Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2415.375MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2415.38 | 28.16 | 8.35 | 109.24 | 36.39 | 109.36 | 74.00 | -35.36 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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Postcode:518057



Date: 2016-11-22

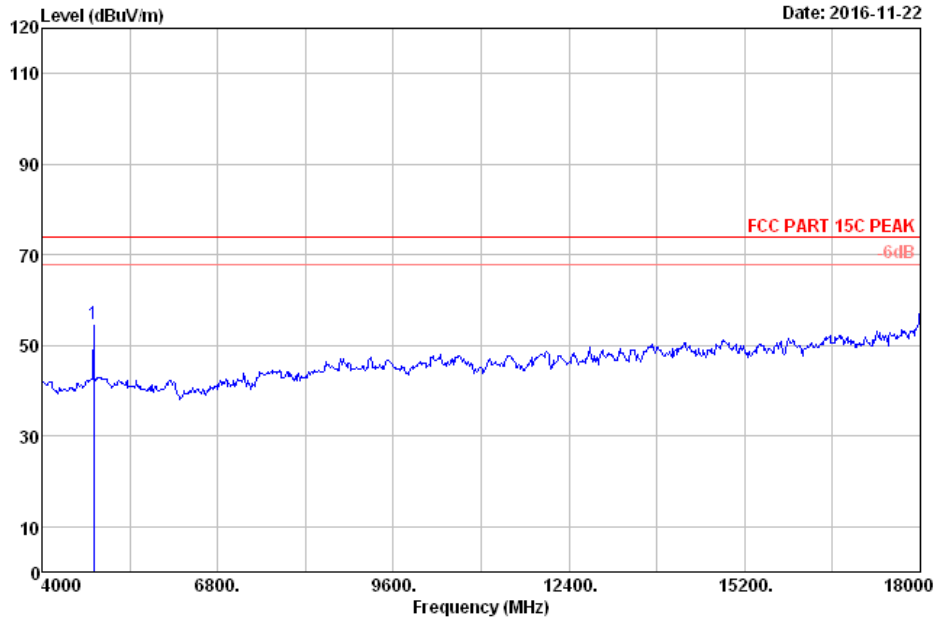
Site no. : 3m Chamber Data no. : 3
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2415.375MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4830.75 | 32.74 | 11.77 | 49.66 | 35.68 | 58.49 | 74.00 | 15.51 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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Site no. : 3m Chamber Data no. : 4
Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2415.375MHz Tx mode

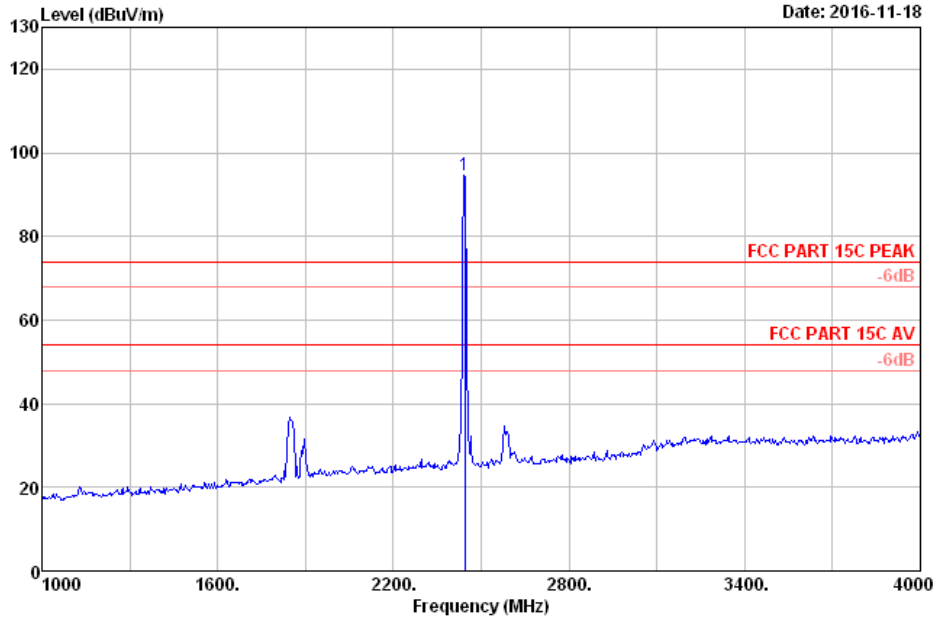
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4830.75 | 32.74 | 11.77 | 45.79 | 35.68 | 54.62 | 74.00 | 19.38 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

1GHz - 18GHz, Middle Channel



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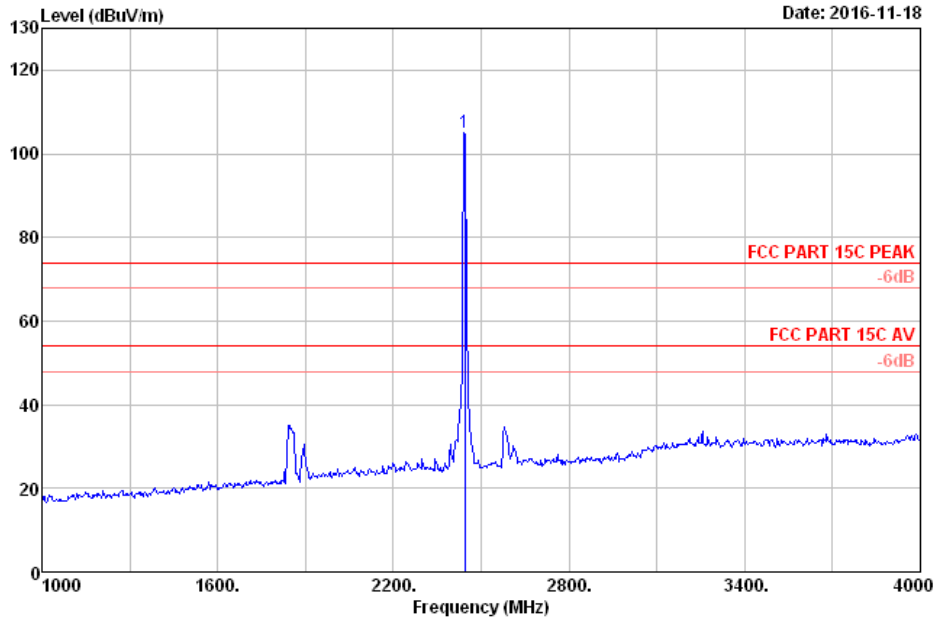
Site no. : 3m Chamber Data no. : 5
Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5W From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2443.5MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2443.50 | 28.21 | 8.38 | 94.59 | 36.38 | 94.80 | 74.00 | -20.80 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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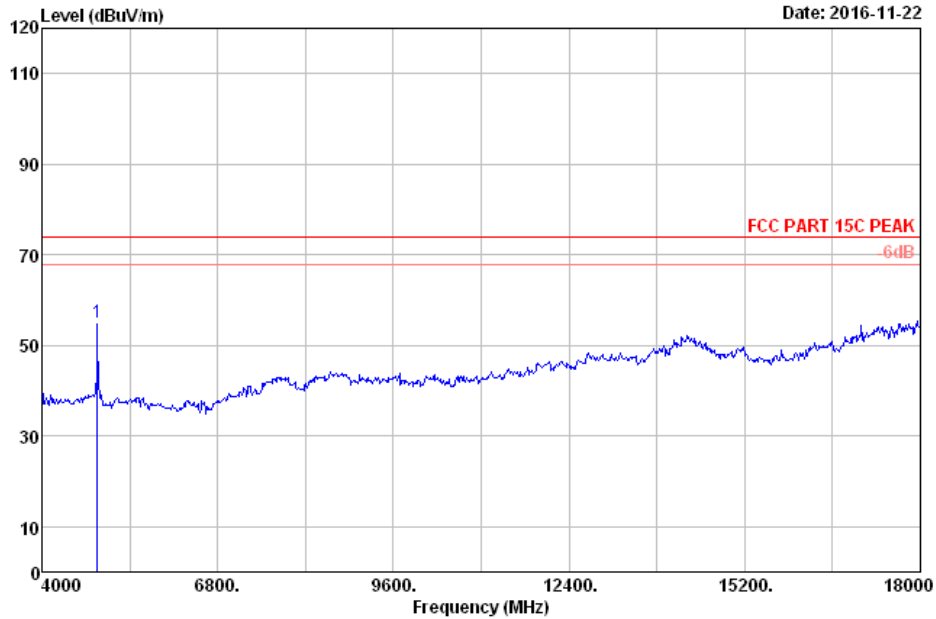
Site no. : 3m Chamber Data no. : 6
Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2443.5MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2443.50 | 28.21 | 8.38 | 104.83 | 36.38 | 105.04 | 74.00 | -31.04 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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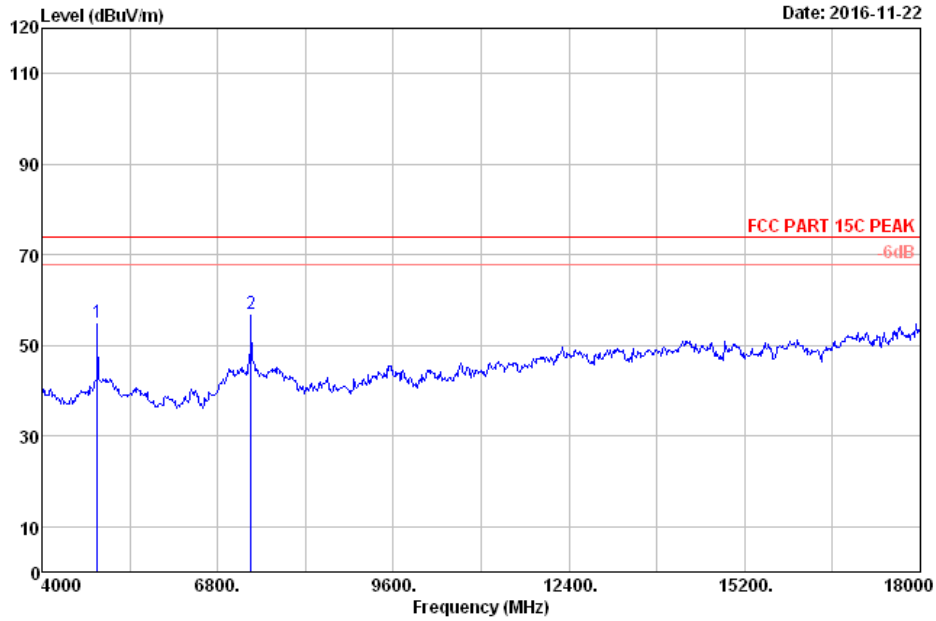
Site no. : 3m Chamber Data no. : 7
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2443.5MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4887.00 | 32.63 | 11.81 | 46.17 | 35.69 | 54.92 | 74.00 | 19.08 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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Site no. : 3m Chamber Data no. : 8
Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2443.5MHz Tx mode

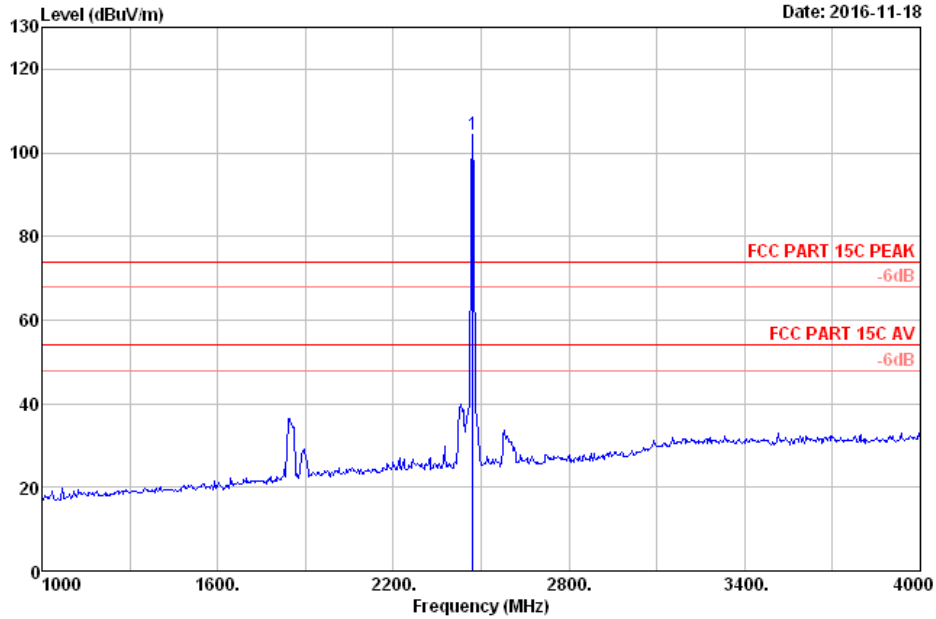
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4887.00 | 32.63 | 11.81 | 46.16 | 35.69 | 54.91 | 74.00 | 19.09 | Peak |
| 2 | 7330.50 | 35.93 | 12.55 | 43.98 | 35.57 | 56.89 | 74.00 | 17.11 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.

1GHz - 18GHz, High Channel



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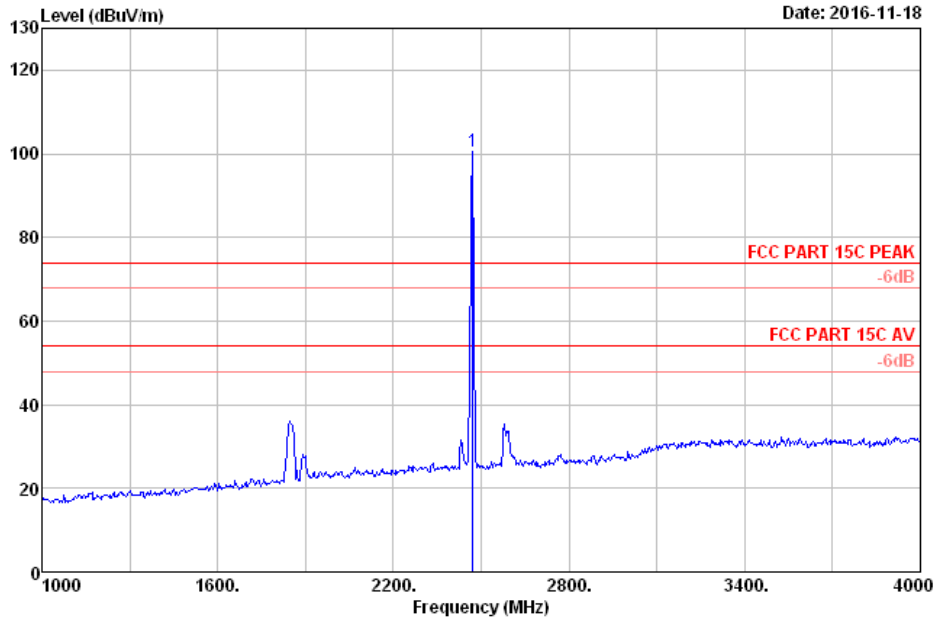
Site no. : 3m Chamber Data no. : 9
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5W From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625 MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2471.63 | 28.25 | 8.41 | 104.01 | 36.38 | 104.29 | 74.00 | -30.29 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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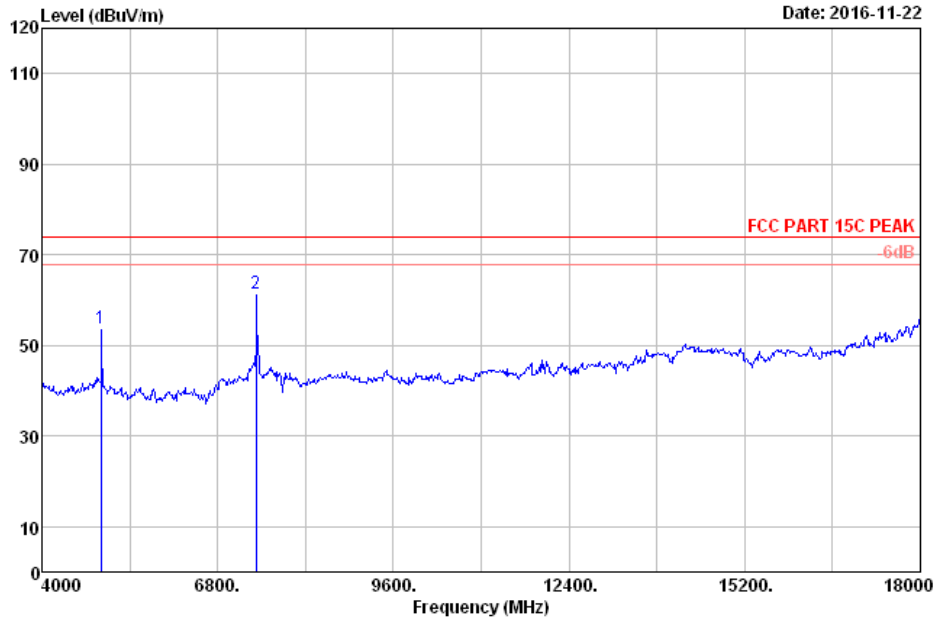
Site no. : 3m Chamber Data no. : 10
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625 MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2471.63 | 28.25 | 8.41 | 100.17 | 36.38 | 100.45 | 74.00 | -26.45 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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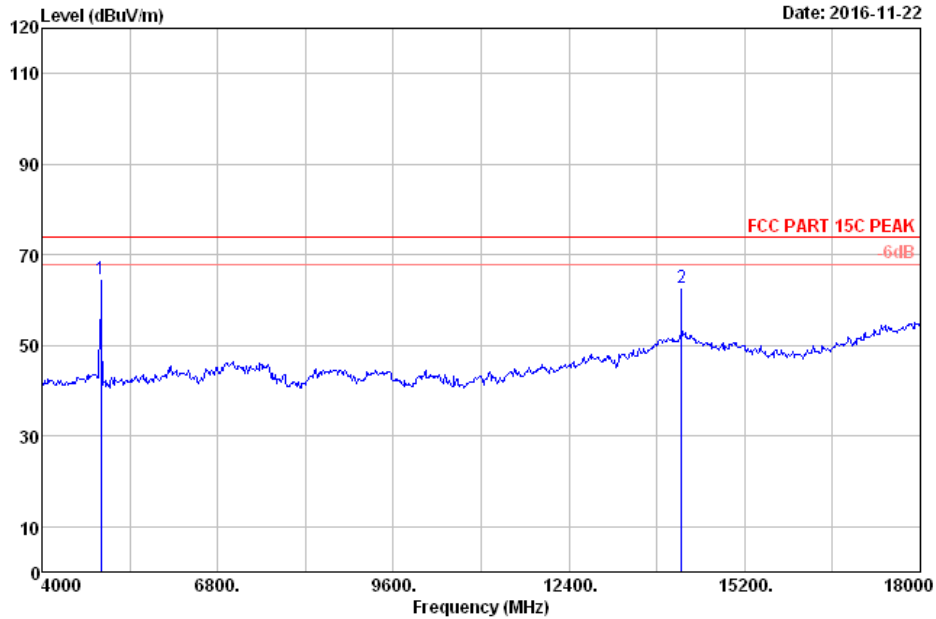
Site no. : 3m Chamber Data no. : 11
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4943.25 | 32.51 | 11.84 | 45.01 | 35.71 | 53.65 | 74.00 | 20.35 | Peak |
| 2 | 7414.88 | 35.97 | 12.62 | 48.36 | 35.59 | 61.36 | 74.00 | 12.64 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.



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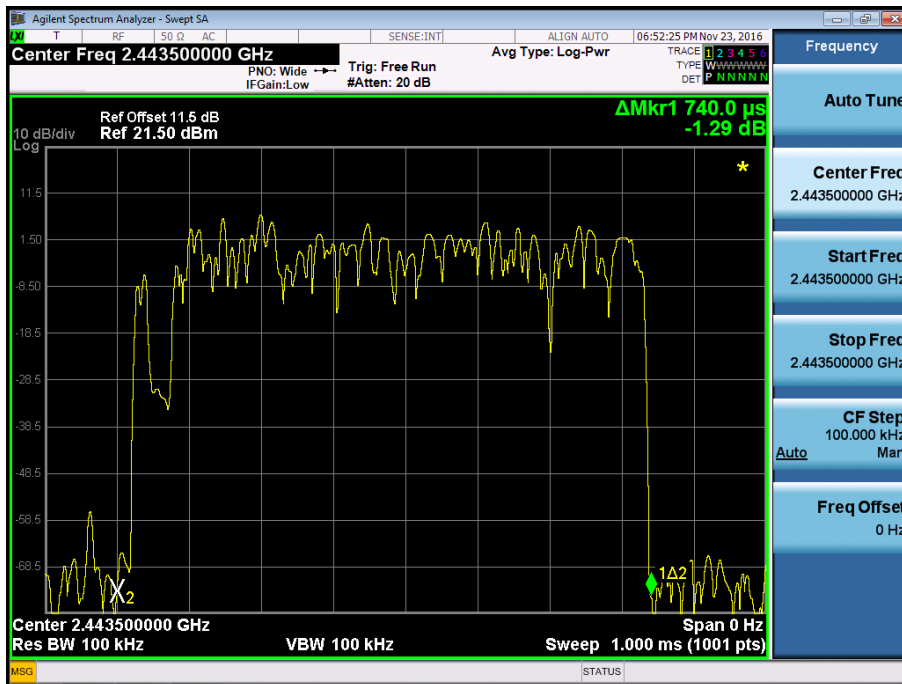
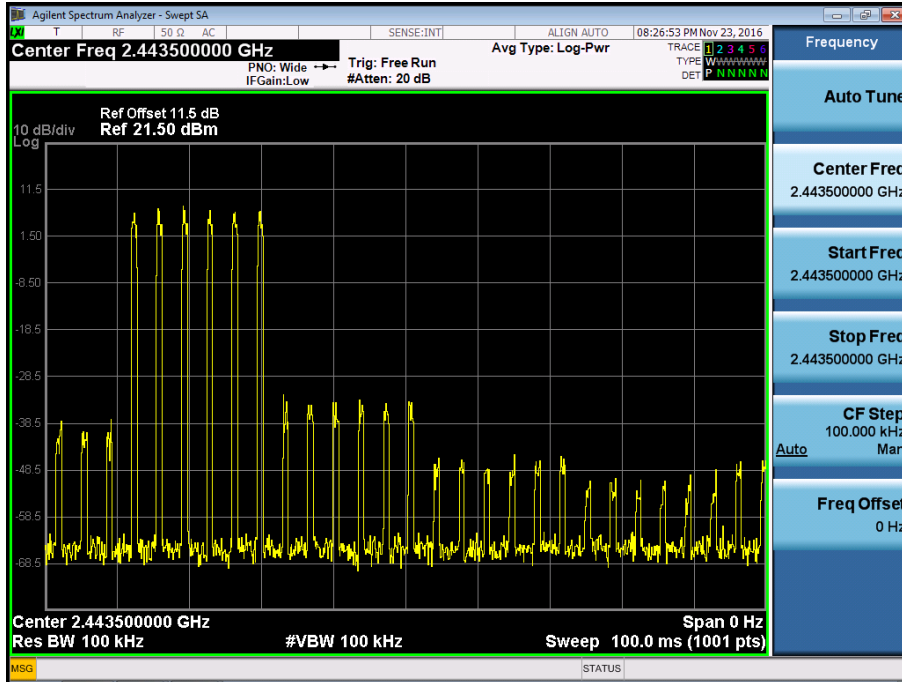


Site no. : 3m Chamber Data no. : 12
 Dis. / Ant. : 3m 2015 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBUV) | AMP factor (dB) | Emission Level (dBUV/m) | Limits (dBUV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 4943.25 | 33.91 | 11.84 | 54.63 | 35.71 | 64.67 | 74.00 | 9.33 | Peak |
| 2 | 14192.00 | 40.60 | 14.28 | 42.02 | 34.12 | 62.78 | 74.00 | 11.22 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

Duty Cycle

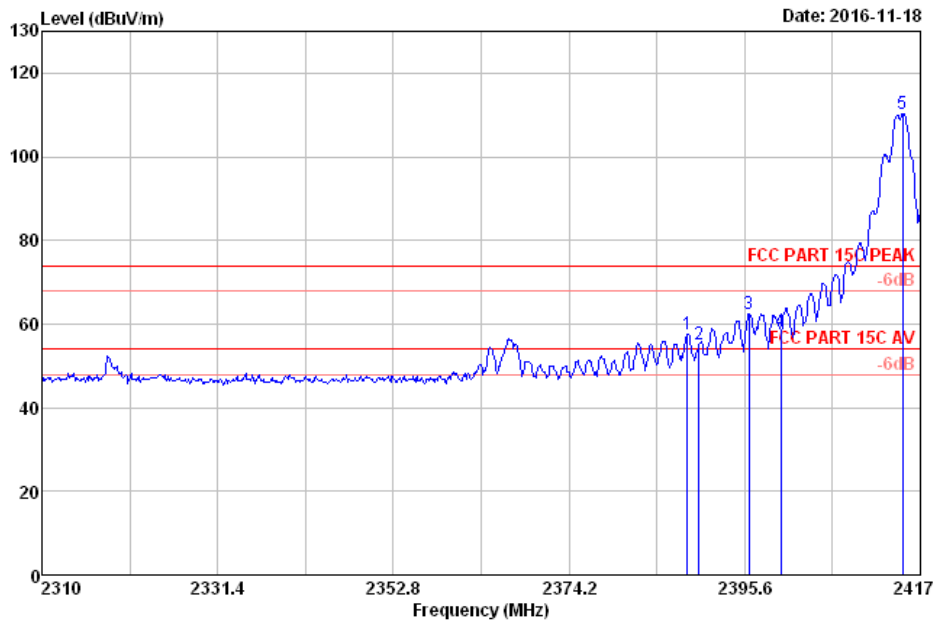


Duty Cycle Correction Factor = $20 \cdot \log(\text{dwell time}/T_{on}) = 20 \cdot \log(0.74\text{ms} \cdot 6/100\text{ms}) = -27.05 \text{ dB}$

Appendix C.2: Test Results of Radiated Emissions in Restricted Bands
Low channel



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Date: 2016-11-18

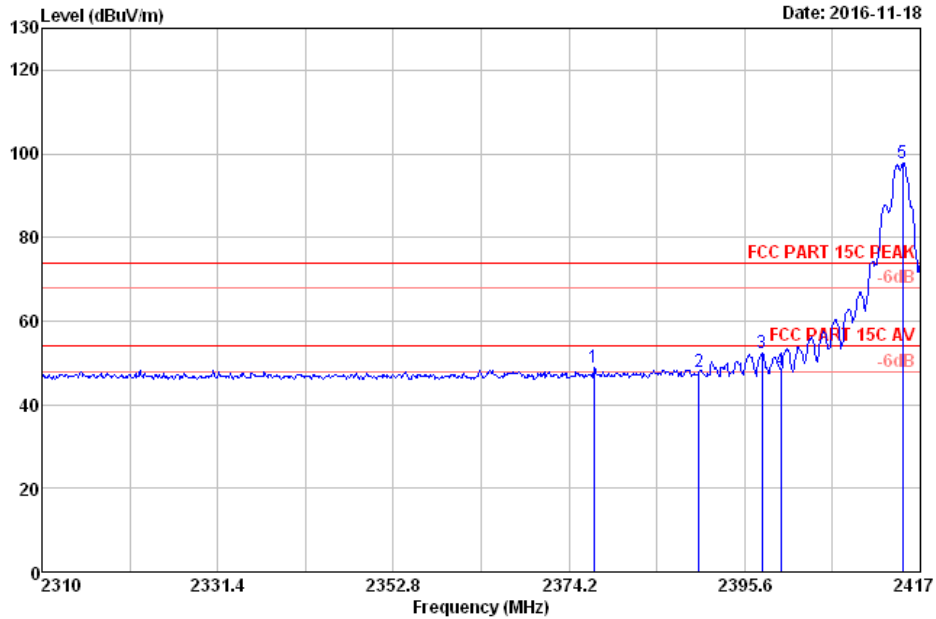
Site no. : 3m Chamber Data no. : 13
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2415.375MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2388.65 | 28.12 | 8.33 | 57.53 | 36.39 | 57.59 | 74.00 | 16.41 | Peak |
| 2 | 2390.00 | 28.12 | 8.33 | 55.00 | 36.39 | 55.06 | 74.00 | 18.94 | Peak |
| 3 | 2396.14 | 28.13 | 8.33 | 62.47 | 36.39 | 62.54 | 74.00 | 11.46 | Peak |
| 4 | 2400.00 | 28.14 | 8.34 | 58.10 | 36.39 | 58.19 | 74.00 | 15.81 | Peak |
| 5 | 2414.86 | 28.16 | 8.35 | 110.28 | 36.39 | 110.40 | 74.00 | -36.40 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
 2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 14
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2415.375MHz Tx mode

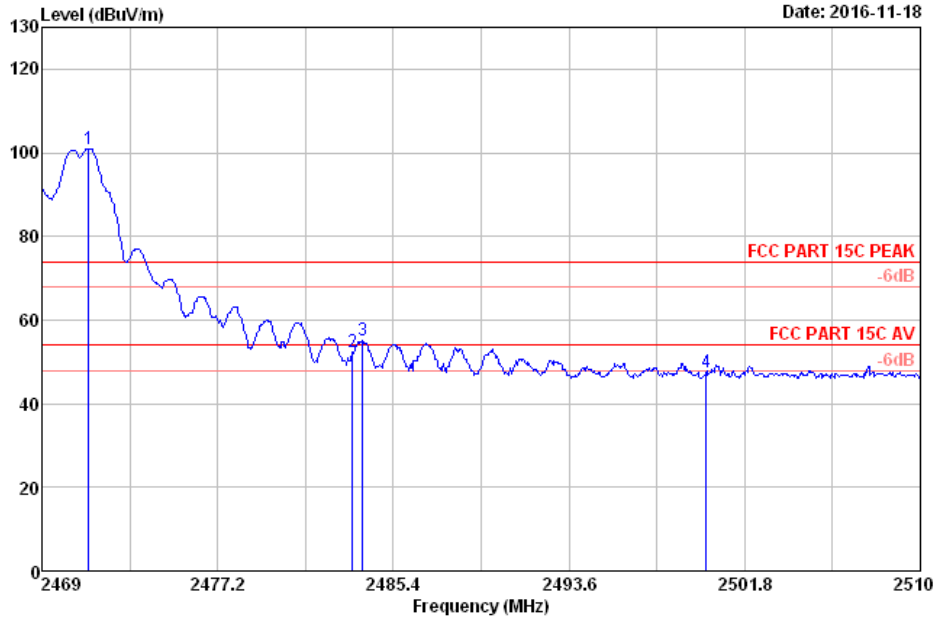
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2377.20 | 28.10 | 8.31 | 48.71 | 36.39 | 48.73 | 74.00 | 25.27 | Peak |
| 2 | 2390.00 | 28.12 | 8.33 | 47.68 | 36.39 | 47.74 | 74.00 | 26.26 | Peak |
| 3 | 2397.74 | 28.14 | 8.34 | 52.10 | 36.39 | 52.19 | 74.00 | 21.81 | Peak |
| 4 | 2400.00 | 28.14 | 8.34 | 47.93 | 36.39 | 48.02 | 74.00 | 25.98 | Peak |
| 5 | 2414.86 | 28.16 | 8.35 | 97.53 | 36.39 | 97.65 | 74.00 | -23.65 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
 -Amp Factor
 2. The emission levels that are 20dB below the official
 limit are not reported.

High channel



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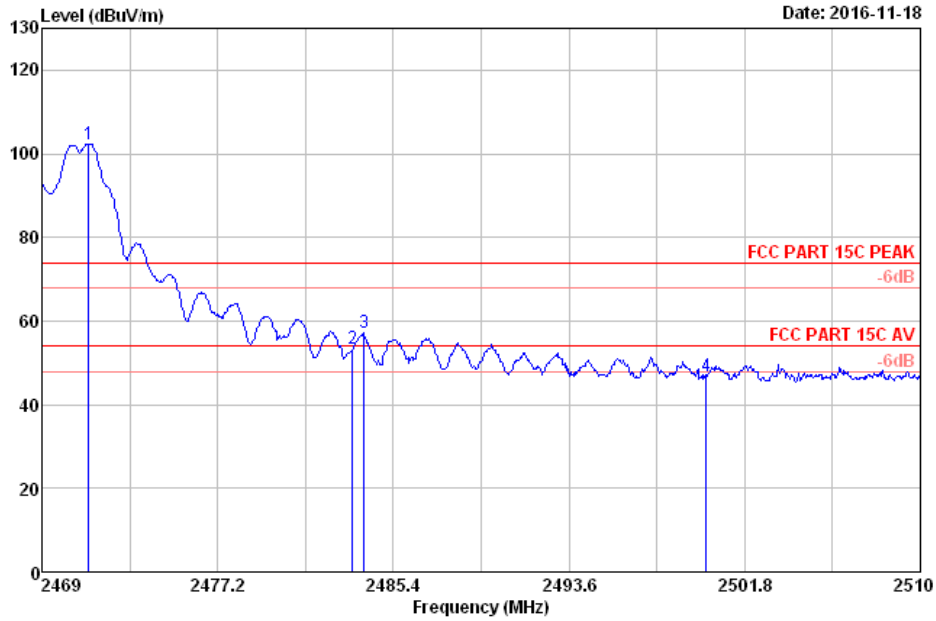
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Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : VERTICAL
Limit : FCC PART 15C PEAK Pre : 101.2kPa
Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
EUT : Baby Monitor M/N:Roomie50 PU
Power rating : DC 5W From Adapter Input AC 120V/60Hz
Test Mode : GFSK 2471.625MHz Tx mode

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|----------------|-----------------|-------------------------|-----------------|-------------|--------|
| 1 | 2471.17 | 28.25 | 8.41 | 100.74 | 36.38 | 101.02 | 74.00 | -27.02 | Peak |
| 2 | 2483.50 | 28.27 | 8.42 | 51.95 | 36.38 | 52.26 | 74.00 | 21.74 | Peak |
| 3 | 2483.97 | 28.27 | 8.42 | 54.86 | 36.38 | 55.17 | 74.00 | 18.83 | Peak |
| 4 | 2500.00 | 28.30 | 8.44 | 47.01 | 36.38 | 47.37 | 74.00 | 26.63 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.



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Site no. : 3m Chamber Data no. : 16
 Dis. / Ant. : 3m 2016 MCTD1209 3006 Ant. pol. : HORIZONTAL
 Limit : FCC PART 15C PEAK Pre : 101.2kPa
 Env. / Ins. : 23.6°C/52.1% Engineer : Alice_yang
 EUT : Baby Monitor M/N:Roomie50 PU
 Power rating : DC 5V From Adapter Input AC 120V/60Hz
 Test Mode : GFSK 2471.625MHz Tx mode

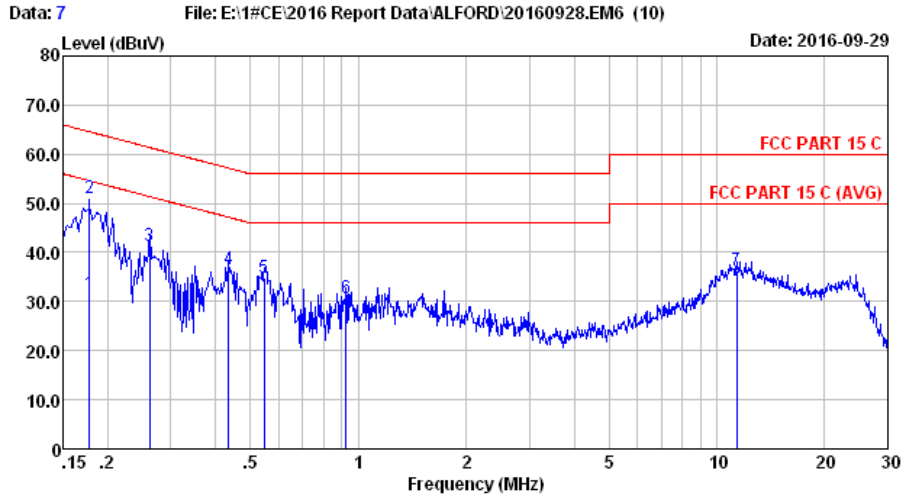
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | Reading (dBuV) | AMP factor (dB) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-------------------|-----------------------|-------------------------------|--------------------|----------------|--------|
| 1 | 2471.17 | 28.25 | 8.41 | 102.15 | 36.38 | 102.43 | 74.00 | -28.43 | Peak |
| 2 | 2483.50 | 28.27 | 8.42 | 53.23 | 36.38 | 53.54 | 74.00 | 20.46 | Peak |
| 3 | 2484.05 | 28.27 | 8.42 | 56.81 | 36.38 | 57.12 | 74.00 | 16.88 | Peak |
| 4 | 2500.00 | 28.30 | 8.44 | 46.54 | 36.38 | 46.90 | 74.00 | 27.10 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
 2. The emission levels that are 20dB below the official
limit are not reported.

Appendix C.3: Test Results of Conducted Emission on AC Mains
A mode



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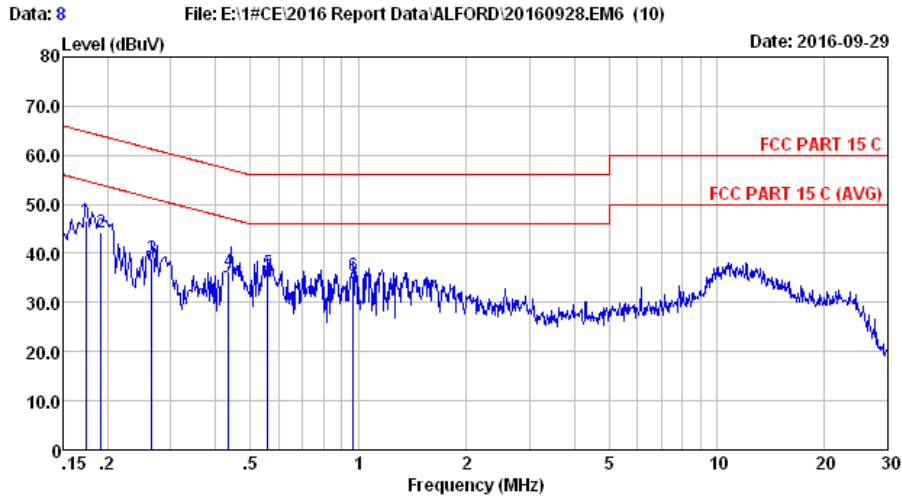
Site no : 1# Conduction Data No : 7
Dis./Lisn : 2016 ESH2-25 LINE
Limit : FCC PART 15 C
Env./Ins. : 23.2°C/52% Engineer : Alvis-Wu
EUT : Baby monitor M/N: Roomie50 PU
Power Rating : AC 120V/60Hz
Test Mode :

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.178 | 0.12 | 0.02 | 31.40 | 31.54 | 54.59 | 23.05 | Average |
| 2 | 0.178 | 0.12 | 0.02 | 51.00 | 51.14 | 64.59 | 13.45 | QP |
| 3 | 0.262 | 0.12 | 0.02 | 41.30 | 41.44 | 61.38 | 19.94 | QP |
| 4 | 0.435 | 0.55 | 0.03 | 35.91 | 36.49 | 57.15 | 20.66 | QP |
| 5 | 0.546 | 0.14 | 0.03 | 34.66 | 34.83 | 56.00 | 21.17 | QP |
| 6 | 0.923 | 0.16 | 0.06 | 30.61 | 30.83 | 56.00 | 25.17 | QP |
| 7 | 11.377 | 0.42 | 0.15 | 35.64 | 36.21 | 60.00 | 23.79 | QP |

Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Site no :1# Conduction Data No :8
Dis./Lisn :2016 ESH2-25 NEUTRAL
Limit :FCC PART 15 C
Env./Ins. :23.2*C/52% Engineer :Alvis-Wu
EUT :Baby monitor M/N:Roomie50 PU
Power Rating :AC 120V/60Hz
Test Mode :

| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|--------|
| 1 | 0.174 | 0.12 | 0.02 | 46.50 | 46.64 | 64.78 | 18.14 | QP |
| 2 | 0.191 | 0.12 | 0.02 | 44.02 | 44.16 | 63.98 | 19.82 | QP |
| 3 | 0.266 | 0.13 | 0.02 | 38.96 | 39.11 | 61.25 | 22.14 | QP |
| 4 | 0.435 | 0.14 | 0.03 | 36.20 | 36.37 | 57.15 | 20.78 | QP |
| 5 | 0.558 | 0.15 | 0.03 | 35.76 | 35.94 | 56.00 | 20.06 | QP |
| 6 | 0.968 | 0.16 | 0.07 | 35.14 | 35.37 | 56.00 | 20.63 | QP |

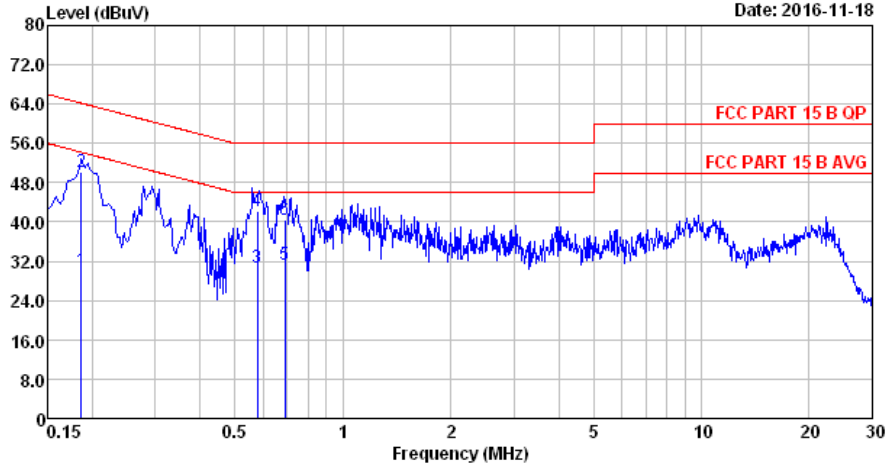
Remarks: 1. Emission Level=LISN Factor+Cable Loss+Reading.
2. If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

C mode



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Data: 11 File: E:\2016 Test Data\T\TUV\20161117.EM6 (56) Date: 2016-11-18



Site no :2# Conduction Data No :11
Dis./Lisn :2016 ESH2-25 LINE LISN phase:
Limit :FCC PART 15 B QP
Env./Ins. :23.2*C/52% Engineer :Alvis-Wu
EUT :Roomle50
Power Rating :AC 120V/60Hz
Test Mode :Charging

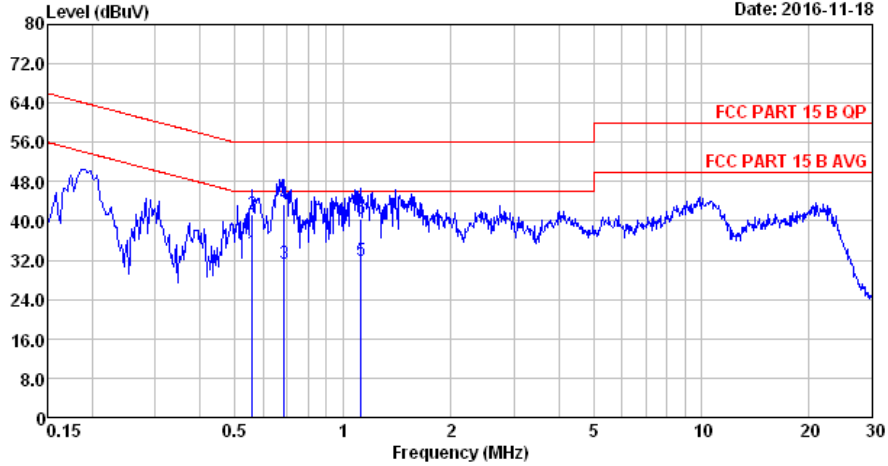
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.186 | 0.13 | 0.02 | 30.00 | 30.15 | 54.21 | 24.06 | Average |
| 2 | 0.186 | 0.13 | 0.02 | 50.00 | 50.15 | 64.21 | 14.06 | QP |
| 3 | 0.578 | 0.12 | 0.04 | 30.40 | 30.56 | 46.00 | 15.44 | Average |
| 4 | 0.578 | 0.12 | 0.04 | 42.10 | 42.26 | 56.00 | 13.74 | QP |
| 5 | 0.690 | 0.15 | 0.04 | 31.20 | 31.39 | 46.00 | 14.61 | Average |
| 6 | 0.690 | 0.15 | 0.04 | 40.30 | 40.49 | 56.00 | 15.51 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector. the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.



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Data: 12 File: E:\2016 Test Data\TUV\20161117.EM6 (56) Date: 2016-11-18



Site no :2# Conduction Data No :12
Dis./Lisn :2016 ESH2-25 NEUTRAL LISN phase:
Limit :FCC PART 15 B QP
Env./Ins. :23.2*C/52% Engineer :Alvis-Wu
EUT :Roomle50
Power Rating :AC 120V/60Hz
Test Mode :Charging

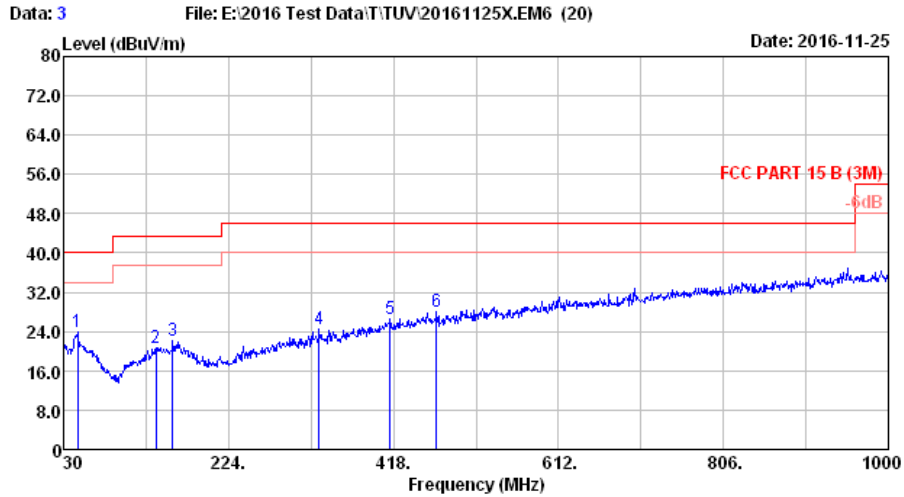
| No | Freq (MHz) | LISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Margin (dB) | Remark |
|----|------------|------------------|-----------------|----------------|-----------------------|---------------|-------------|---------|
| 1 | 0.558 | 0.15 | 0.03 | 33.60 | 33.78 | 46.00 | 12.22 | Average |
| 2 | 0.558 | 0.15 | 0.03 | 41.15 | 41.33 | 56.00 | 14.67 | QP |
| 3 | 0.686 | 0.15 | 0.04 | 31.10 | 31.29 | 46.00 | 14.71 | Average |
| 4 | 0.686 | 0.15 | 0.04 | 43.35 | 43.54 | 56.00 | 12.46 | QP |
| 5 | 1.123 | 0.18 | 0.07 | 31.50 | 31.75 | 46.00 | 14.25 | Average |
| 6 | 1.123 | 0.18 | 0.07 | 40.25 | 40.50 | 56.00 | 15.50 | QP |

Remarks: 1.Emission Level=LISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector, the EUT shall be deemed to meet both limits and measurement with average detector is unnecessary.

Appendix C.4: Test Results of Radiated Emission
C mode, Below 1GHz



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Site no :2# Conduction Data No :3
Dis./Lisn :ANT 2016 9168 710 LISN phase:HORIZONTAL
Limit :FCC PART 15 B (3M)
Env./Ins. :23.5°C/53% Engineer :Alvis-Wu
EUT :Roomle50
Power Rating :DC 5V From adapter Input AC 120V/60Hz
Test Mode :Charging Mode

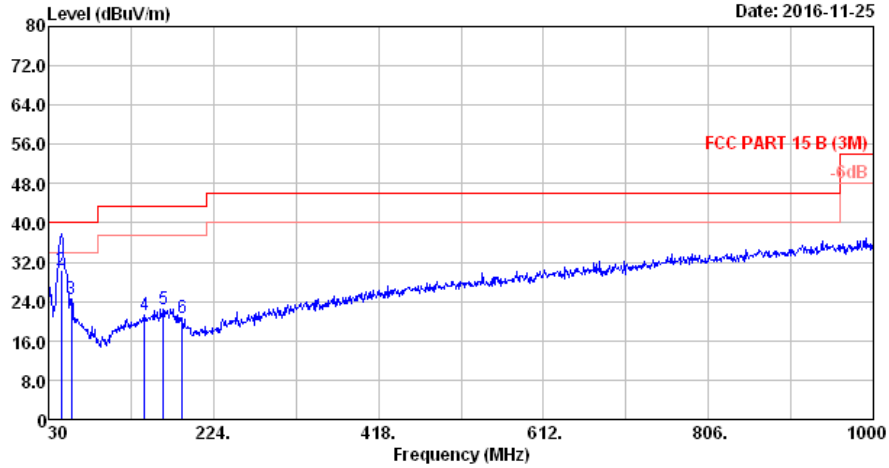
| No | Freq (MHz) | ISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Over Limits (dB) | Remark |
|----|------------|-----------------|-----------------|----------------|-----------------------|---------------|------------------|--------|
| 1 | 46.490 | 20.48 | 0.77 | 2.68 | 23.93 | 40.00 | -16.07 | QP |
| 2 | 138.640 | 19.19 | 1.09 | 0.47 | 20.75 | 43.50 | -22.75 | QP |
| 3 | 158.040 | 19.73 | 1.06 | 1.32 | 22.11 | 43.50 | -21.39 | QP |
| 4 | 330.700 | 20.75 | 2.13 | 1.60 | 24.48 | 46.00 | -21.52 | QP |
| 5 | 414.120 | 22.35 | 2.48 | 1.84 | 26.67 | 46.00 | -19.33 | QP |
| 6 | 468.440 | 23.64 | 2.65 | 1.80 | 28.09 | 46.00 | -17.91 | QP |

Remarks: 1.Emission Level=ISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.



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Data: 4 File: E:\2016 Test Data\TUV\20161125X.EM6 (20) Date: 2016-11-25



Site no :2# Conduction Data No :4
Dis./Lisn :ANT 2016 9168 710 LISN phase:VERTICAL
Limit :FCC PART 15 B (3M)
Env./Ins. :23.5°C/53% Engineer :Alvis-Wu
EUT :Roomle50
Power Rating :DC 5V From adapter Input AC 120V/60Hz
Test Mode :Charging Mode

| No | Freq (MHz) | ISN Factor (dB) | Cable Loss (dB) | Reading (dBuV) | Emission Level (dBuV) | Limits (dBuV) | Over Limits (dB) | Remark |
|----|------------|-----------------|-----------------|----------------|-----------------------|---------------|------------------|--------|
| 1 | 30.000 | 19.28 | 0.59 | 7.76 | 27.63 | 40.00 | -12.37 | QP |
| 2 | 45.069 | 20.46 | 0.76 | 9.30 | 30.52 | 40.00 | -9.48 | QP |
| 3 | 57.160 | 20.03 | 0.89 | 3.54 | 24.46 | 40.00 | -15.54 | QP |
| 4 | 142.520 | 19.46 | 1.08 | 0.63 | 21.17 | 43.50 | -22.33 | QP |
| 5 | 164.830 | 19.67 | 1.05 | 1.67 | 22.39 | 43.50 | -21.11 | QP |
| 6 | 187.140 | 17.51 | 1.02 | 2.22 | 20.75 | 43.50 | -22.75 | QP |

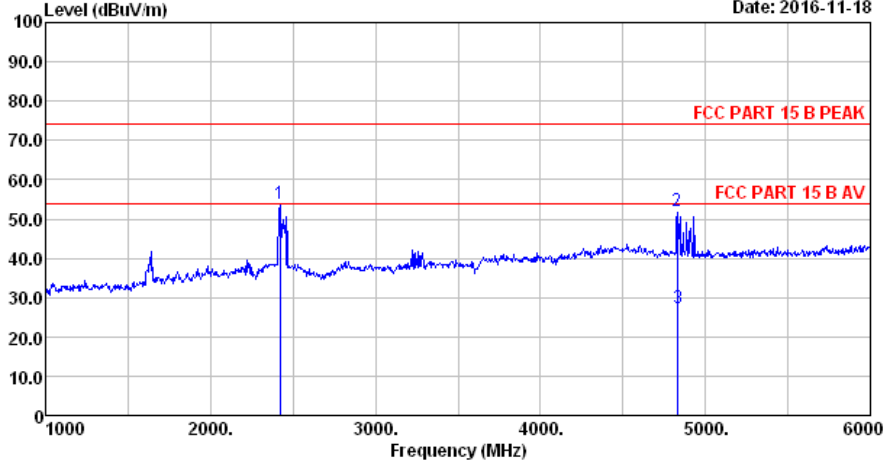
Remarks: 1.Emission Level=ISN Factor+Cable Loss+Reading.
2.If the average limit is met when using a quasi-peak detector.
the EUT shall be deemed to meet both limits and measurement
with average detector is unnecessary.

C mode, Above 1GHz



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Data: 9 File: E:\2016 Test Data\T\TUV\20161118.EM6 (20) Date: 2016-11-18



Site no. : 3m Chamber Data no. : 9
Dis. / Ant. : 3m 2016 MTD1209 3006 Ant. pol. : VERTICAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 21.4°C/52% Engineer : Alvis-Wu
EUT : Roomle50
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : Charging
Adapter:5V/1000mA

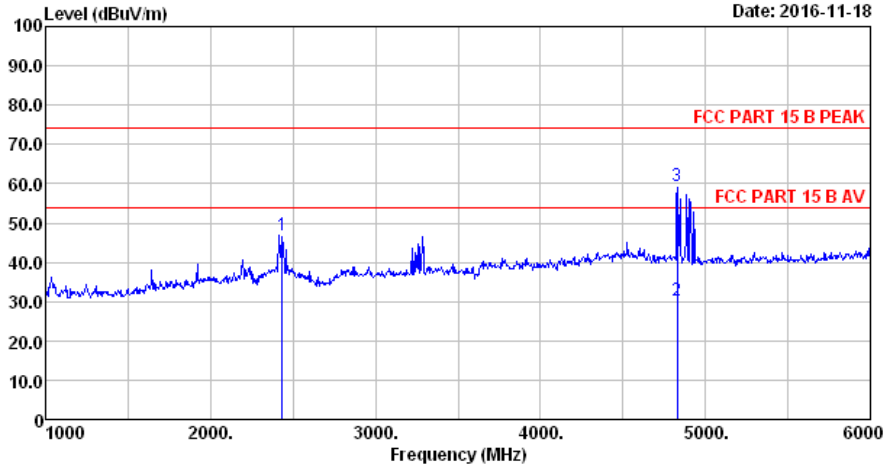
| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|----------------|--------------------------|-----------------------|-----------------------|-------------------|-------------------------------|--------------------|----------------|---------|
| 1 | 2420.00 | 28.19 | 2.76 | 33.99 | 57.08 | 54.04 | 74.00 | 19.96 | Peak |
| 2 | 4830.00 | 32.74 | 3.90 | 32.83 | 48.30 | 52.11 | 74.00 | 21.89 | Peak |
| 3 | 4832.59 | 32.74 | 3.90 | 32.83 | 23.38 | 27.19 | 54.00 | 26.81 | Average |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading
-Amp Factor
2. The emission levels that are 20dB below the official
limit are not reported.



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Data: 10 File: E:\2016 Test Data\T\TUV\20161118.EM6 (20) Date: 2016-11-18



Site no. : 3m Chamber Data no. : 10
Dis. / Ant. : 3m 2016 MTD1209 3006 Ant. pol. : HORIZONTAL
Limit : FCC PART 15 B PEAK
Env. / Ins. : 21.4°C/52% Engineer : Alvis-Wu
EUT : Roomie50
Power rating : DC 5V From Adapter Input AC 120V/60Hz
Test Mode : Charging
Adapter:5V/1000mA

| No. | Freq. (MHz) | Ant. Factor (dB/m) | Cable Loss (dB) | AMP factor (dB) | Reading (dBuV) | Emission Level (dBuV/m) | Limits (dBuV/m) | Margin (dB) | Remark |
|-----|-------------|--------------------|-----------------|-----------------|----------------|-------------------------|-----------------|-------------|---------|
| 1 | 2435.00 | 28.19 | 2.77 | 33.98 | 49.85 | 46.83 | 74.00 | 27.17 | Peak |
| 2 | 4829.65 | 32.74 | 3.90 | 32.83 | 26.49 | 30.30 | 54.00 | 23.70 | Average |
| 3 | 4830.00 | 32.74 | 3.90 | 32.83 | 55.43 | 59.24 | 74.00 | 14.76 | Peak |

Remarks: 1. Emission Level= Antenna Factor + Cable Loss + Reading - Amp Factor
2. The emission levels that are 20dB below the official limit are not reported.

Note: In this appendix, the EUT's Model model Roomie50 is replaced by Comfort50, they are full identical except model number.