

ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

INTENTIONAL RADIATOR CERTIFICATION TO FCC PART 15 SUBPART C REQUIREMENT

OF

Product Name: Environment sensing logger
Brand Name: TOSHIBA
Model No.: TWBM001C-NB
Model Difference: N/A
FCC ID: HFS-IU1
Report No.: E2/2015/30011
Issue Date: Apr. 13, 2015
FCC Rule Part: §15.247, Cat: DTS
Prepared for: Quanta Computer Inc.
211, Wen Hwa 2nd Rd., Guishan Dist., Tao Yuan City
33377, Taiwan
Prepared by: SGS Taiwan Ltd.
Electronics & Communication Laboratory
No.2, Keji 1st Rd., Guishan Township, Taoyuan County, Taiwan 333



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VERIFICATION OF COMPLIANCE

Applicant: Quanta Computer Inc.
211, Wen Hwa 2nd Rd., Guishan Dist., Tao Yuan City 33377, Taiwan

Product Name: Environment sensing logger

Brand Name: TOSHIBA

Model No.: TWBM001C-NB

Model Difference: N/A

FCC ID: HFS-IU1

File Number: E2/2015/30011

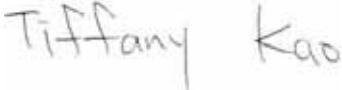
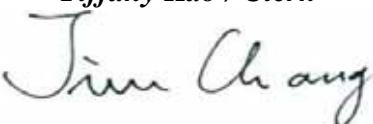
Date of test: Mar. 11, 2015 ~ Apr. 08, 2015

Date of EUT Received: Mar. 11, 2015

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Electronics & Communication Laboratory. The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

The test results of this report relate only to the tested sample identified in this report.

| | | | |
|--------------------------------------|---|-------------|---------------|
| Test By: |  | Date | Apr. 13, 2015 |
| <i>Jazz Huang / Asst. Supervisor</i> | | | |
| Prepared By: |  | Date | Apr. 13, 2015 |
| <i>Tiffany Kao / Clerk</i> | | | |
| Approved By: |  | Date | Apr. 13, 2015 |
| <i>Jim Chang / Asst. Manager</i> | | | |

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Revision History

| Report Number | Revision | Description | Issue Date |
|---------------|----------|------------------------------|---------------|
| E2/2015/30011 | Rev.00 | Initial creation of document | Apr. 13, 2015 |
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1 GENERAL INFORMATION

1.1 Product Description

General:

| | | |
|------------------------|--|--|
| Product Name: | Environment sensing logger | |
| Brand Name: | TOSHIBA | |
| Model No.: | TWBM001C-NB | |
| Model Difference: | N/A | |
| Product SW/HW version: | N/A | |
| Power Supply: | 3.7Vdc from re-chargeable Battery or 5Vdc from USB port Battery: Model No.: AHA11109002, Supplier: Quanta Computer Inc. | |

Bluetooth Low Energy:

| | |
|----------------------|---|
| Frequency Range: | 2402 – 2480MHz |
| Bluetooth Version: | V4.0 single mode |
| Channel number: | 40 channels |
| Modulation type: | GFSK |
| Transmit Power: | -0.53dBm (Peak) |
| Antenna Designation: | 1. PIFA Antenna, 4.67dBi, P/N: 81EAAS15.G75, Supplier: WNC 2. PIFA Antenna, 1.94dBi, P/N: WA-P-LA-0.142, Supplier: INAPQ |

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1.2 Product Feature of Equipment Under Test

The equipment under Test (Hereafter Called: EUT) is Environment sensing logger supporting, Bluetooth features, and below is details of information.

| Product Feature | |
|-------------------|----------------------------|
| Product Name: | Environment sensing logger |
| Brand Name: | TOSHIBA |
| Model No.: | TWBM001C-NB |
| Model Difference: | N/A |
| FCC ID | HFS-IU1 |
| Bluetooth Version | V4.0 single mode |

Note: The above EUT information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

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1.3 Test Methodology of Applied Standards

FCC Part 15, Subpart C §15.247

FCC KDB 558074 D01 DTS Meas. Guidance V03r02

ANSI C63.10:2013

Note:

1. All test items have been performed and record as per the above standards.
2. The composite system is compliance with FCC Subpart B is authorized under the certification procedure.
3. The EUT was placed 1.5m height for frequency above 1GHz in accordance with ANSI C63.10:2013.

1.4 Test Facility

SGS Taiwan Ltd. Electronics & Communication Laboratory No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan. (TAF code 0513)

FCC Registration Numbers are: 990257

Canada Registration Number: 4620A-4.

1.5 Special Accessories

There are no special accessories used while test was conducted.

1.6 Equipment Modifications

There was no modification incorporated into the EUT.

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2 SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

An engineering test mode (software/firmware) that applicant provided was utilized to manipulate the EUT into transmit, selection of the test channel, and modulation scheme.

2.3 Test Procedure

2.3.1 Conducted Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed according to §15.107. The two LISNs provide 50 ohm/ 50uH of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

2.3.2 Radiated Emissions

The EUT is placed on a turn table which is 0.8 m above ground plane. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this hand-held transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.

2.4 Measurement Results Explanation Example

For all conducted test items:

The offset level is set in the spectrum analyzer to compensate the RF cable loss and attenuation factor between EUT conducted port and spectrum analyzer. With the offset compensation, the spectrum analyzer reading level is exactly EUT RF output level.

Note:

The spectrum analyzer offset is derived from RF cable loss and attenuator factor. Following shows an offset computation example with cable loss 1.05dB.

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2.5 Configuration of Tested System

Fig. 2-1 Radiated Emission & Conducted (Antenna Port) Configuration

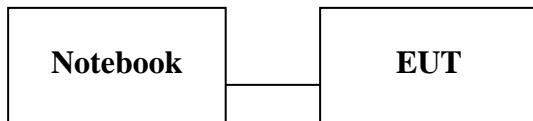


Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------|-----------|----------------|------------|------------|------------|
| 1. | BT Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Notebook | Lenovo | L430 | R9-YYG88 | Shield | Unshielded |

Fig. 2-2 AC Power Line Conducted Emission

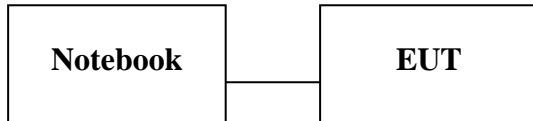


Table 2-2 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------|-----------|----------------|------------|------------|------------|
| 1. | BT Software | N/A | N/A | N/A | N/A | N/A |
| 2. | Notebook | Lenovo | L430 | R9-YYG88 | Shield | Unshielded |

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3 SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|-----------------------|--|-----------|
| §15.207(a) | AC Power Line Conducted Emission | Compliant |
| §15.247(b) (3) | Peak Output Power | Compliant |
| §15.247(a)(2) | 6dB Bandwidth & 99% Power Bandwidth | Compliant |
| §15.247(d) | Conducted Band Edge and Spurious Emission | Compliant |
| §15.247(d) | Radiated Band Edge and Spurious Emission | Compliant |
| §15.247(e) | Peak Power Density | Compliant |
| §15.203 §15.247(b) | Antenna Requirement | Compliant |

4 DESCRIPTION OF TEST MODES

4.1 Operated in 2400 ~ 2483.5MHz Band

40 channels are provided for Bluetooth LE

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

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4.2 The Worst Test Modes and Channel Details

1. The EUT has been tested under operating condition.
2. Test program used to control the EUT for staying in continuous transmitting and receiving mode is programmed.

RADIATED EMISSION TEST:

| RADIATED EMISSION TEST (BELOW 1 GHz) | | | | | |
|--------------------------------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| Bluetooth LE | 0 to 39 | 0,19,39 | GFSK | 1.0 | MAIN |
| RADIATED EMISSION TEST (ABOVE 1 GHz) | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| Bluetooth LE | 0 to 39 | 0,19,39 | GFSK | 1.0 | MAIN |

Note:

The field strength of radiation emission was measured as EUT stand-up position (H mode) and lie down position (E1, E2 mode) for Bluetooth LE 4.1 Transmitter for channel Low, Mid and High, the worst case E1 position was reported.

ANTENNA PORT CONDUCTED MEASUREMENT:

| CONDUCTED TEST | | | | | |
|----------------|-------------------|----------------|------------|------------------|--------------|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | DATA RATE (Mbps) | ANTENNA PORT |
| Bluetooth LE | 0 to 39 | 0,19,39 | GFSK | 1.0 | MAIN |

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5 MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|---|-----------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Peak Output Power | +/- 0.84 dB |
| 6dB Bandwidth | +/- 51.33 Hz |
| 100 KHz Bandwidth Of Frequency Band Edges | +/- 1.55 dB |
| Peak Power Density | +/- 1.3 dB |
| Temperature | +/- 0.65 °C |
| Humidity | +/- 4.6 % |
| DC / AC Power Source | DC= +/- 0.13%, AC= +/- 0.2% |

Radiated Spurious Emission:

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Vertical) | 30MHz - 180MHz: +/- 3.37dB |
| | 180MHz -417MHz: +/- 3.19dB |
| | 0.417GHz-1GHz: +/- 3.19dB |
| | 1GHz - 18GHz: +/- 4.04dB |
| | 18GHz - 40GHz: +/- 4.04dB |

| | |
|--|----------------------------|
| Measurement uncertainty (Polarization : Horizontal) | 30MHz - 167MHz: +/- 4.22dB |
| | 167MHz -500MHz: +/- 3.44dB |
| | 0.5GHz-1GHz: +/- 3.39dB |
| | 1GHz - 18GHz: +/- 4.08dB |
| | 18GHz - 40GHz: +/- 4.08dB |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

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6 CONDUCTED EMISSION TEST

6.1 Standard Applicable:

Frequency range within 150kHz to 30MHz shall not exceed the Limit table as below.

| Frequency range MHz | Limits dB(uV) | |
|------------------------|------------------|----------|
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

Note

- 1.The lower limit shall apply at the transition frequencies
- 2.The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.

6.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-------------|-------------------|------------------|--------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESCI 3 | 101311 | 06/20/2014 | 06/19/2015 |
| Coaxial Cables | N/A | N30N30-1042-150cm | N/A | 01/06/2015 | 01/07/2016 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 06/10/2014 | 06/09/2015 |
| LISN | Rolf-Heine | NNB-2/16Z | 99012 | 03/04/2015 | 03/03/2016 |
| Test Software | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

6.3 EUT Setup:

1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
3. The LISN was connected with 120Vac/60Hz power source.

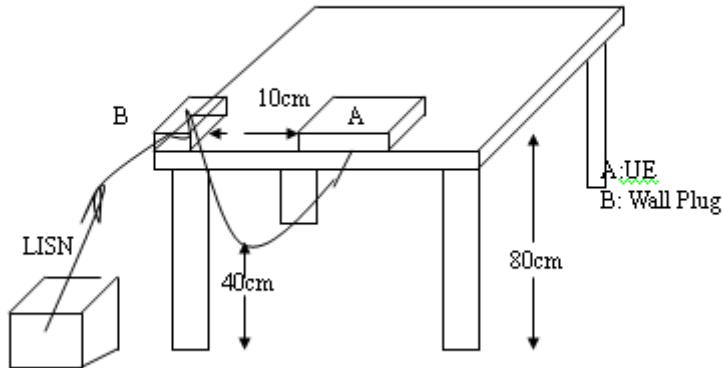
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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure:

1. The EUT was placed on a table which is 0.8m above ground plane.
2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
3. Repeat above procedures until all phases of power being supplied by given UE are completed

6.6 Measurement Result:

The initial step in collecting conducted data is a spectrum analyzer peak scan of the measurement range. Significant peaks are then marked as shown on the following data page, and these signals are then quasi-peaked.

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit

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AC POWER LINE CONDUCTED EMISSION TEST DATA

| | | | |
|-----------------|----------------|------------|---------------|
| Operation Mode: | Operation mode | Test Date: | Mar. 26, 2015 |
| Temperature: | 24 | Humidity: | 66 % |



| No. | Mk. | Freq. ⁽²⁾ (MHz) ⁽²⁾ | Reading ⁽²⁾ dBuV ⁽²⁾ | Factor ⁽²⁾ | Measurement ⁽²⁾ (dBuV) ⁽²⁾ | Limit ⁽²⁾ (dBuV) ⁽²⁾ | Over ⁽²⁾ (dB) ⁽²⁾ | Detector ⁽²⁾ | Comment ⁽²⁾ |
|------------------|------------------|--|---|-----------------------|---|---|--|-------------------------|------------------------|
| 1 ⁽²⁾ | * ⁽²⁾ | 0.1740 ⁽²⁾ | 58.70 ⁽²⁾ | 0.05 ⁽²⁾ | 58.75 ⁽²⁾ | 64.77 ⁽²⁾ | -6.02 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |
| 2 ⁽²⁾ | ⁽²⁾ | 0.1820 ⁽²⁾ | 58.21 ⁽²⁾ | 0.05 ⁽²⁾ | 58.26 ⁽²⁾ | 64.39 ⁽²⁾ | -6.13 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |
| 3 ⁽²⁾ | ⁽²⁾ | 0.2260 ⁽²⁾ | 52.83 ⁽²⁾ | 0.05 ⁽²⁾ | 52.88 ⁽²⁾ | 62.60 ⁽²⁾ | -9.72 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |
| 4 ⁽²⁾ | ⁽²⁾ | 0.4700 ⁽²⁾ | 43.99 ⁽²⁾ | 0.17 ⁽²⁾ | 44.16 ⁽²⁾ | 56.51 ⁽²⁾ | -12.35 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |
| 5 ⁽²⁾ | ⁽²⁾ | 0.5300 ⁽²⁾ | 44.16 ⁽²⁾ | 0.19 ⁽²⁾ | 44.35 ⁽²⁾ | 56.00 ⁽²⁾ | -11.65 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |
| 6 ⁽²⁾ | ⁽²⁾ | 4.8060 ⁽²⁾ | 44.58 ⁽²⁾ | 0.50 ⁽²⁾ | 45.08 ⁽²⁾ | 56.00 ⁽²⁾ | -10.92 ⁽²⁾ | peak ⁽²⁾ | ⁽²⁾ |

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| No. | Mk. | Freq. [‡] (MHz) [‡] | Reading [‡] dBuV [‡] | Factor [‡] | Measurement [‡] (dBuV) [‡] | Limit [‡] (dBuV) [‡] | Over [‡] (dB) [‡] | Detector [‡] | Comment [‡] |
|----------------|----------------|--|---|---------------------|---|---|--|-----------------------|----------------------|
| 1 [‡] | * [‡] | 0.1700 [‡] | 58.78 [‡] | 0.05 [‡] | 58.83 [‡] | 64.96 [‡] | -6.13 [‡] | peak [‡] | [‡] |
| 2 [‡] | [‡] | 0.1860 [‡] | 54.93 [‡] | 0.04 [‡] | 54.97 [‡] | 64.21 [‡] | -9.24 [‡] | peak [‡] | [‡] |
| 3 [‡] | [‡] | 0.2180 [‡] | 52.26 [‡] | 0.05 [‡] | 52.31 [‡] | 62.89 [‡] | -10.58 [‡] | peak [‡] | [‡] |
| 4 [‡] | [‡] | 0.4820 [‡] | 43.51 [‡] | 0.18 [‡] | 43.69 [‡] | 56.30 [‡] | -12.61 [‡] | peak [‡] | [‡] |
| 5 [‡] | [‡] | 0.5500 [‡] | 43.88 [‡] | 0.20 [‡] | 44.08 [‡] | 56.00 [‡] | -11.92 [‡] | peak [‡] | [‡] |
| 6 [‡] | [‡] | 4.8180 [‡] | 45.34 [‡] | 0.50 [‡] | 45.84 [‡] | 56.00 [‡] | -10.16 [‡] | peak [‡] | [‡] |

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7 PEAK OUTPUT POWER MEASUREMENT

7.1 Standard Applicable:

For systems using digital modulation in the 2400-2483.5 MHz bands, the limit for peak output power is 1Watt.

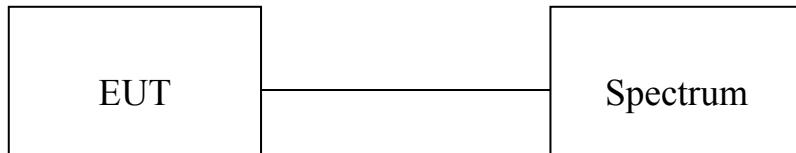
If the transmitting antenna of directional gain greater than 6dBi are used the peak output power form the intentional radiator shall be reduced below the above stated value by the amount in dB that the directional gain of the Antenna exceeds 6dBi.

In case of point-to-point operation, the limit has to be reduced by 1dB for every 3dB that the directional gain of Antenna exceeds 6dBi.

7.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|------------|--------------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Power Meter | Anritsu | ML2496A | 1326001 | 06/21/2014 | 06/20/2015 |
| Power Sensor | Anritsu | MA2411B | 1315048 | 06/21/2014 | 06/20/2015 |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 10/15/2014 | 10/14/2015 |
| DC Block | PASTERNACK | PE8210 | RF29 | 12/19/2014 | 12/18/2015 |
| Coaxial Cable 30cm | WOKEN | 00100A1F1A19 5C | RF01 | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/19/2014 | 12/18/2015 |

7.3 Test Set-up:



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7.4 Measurement Procedure:

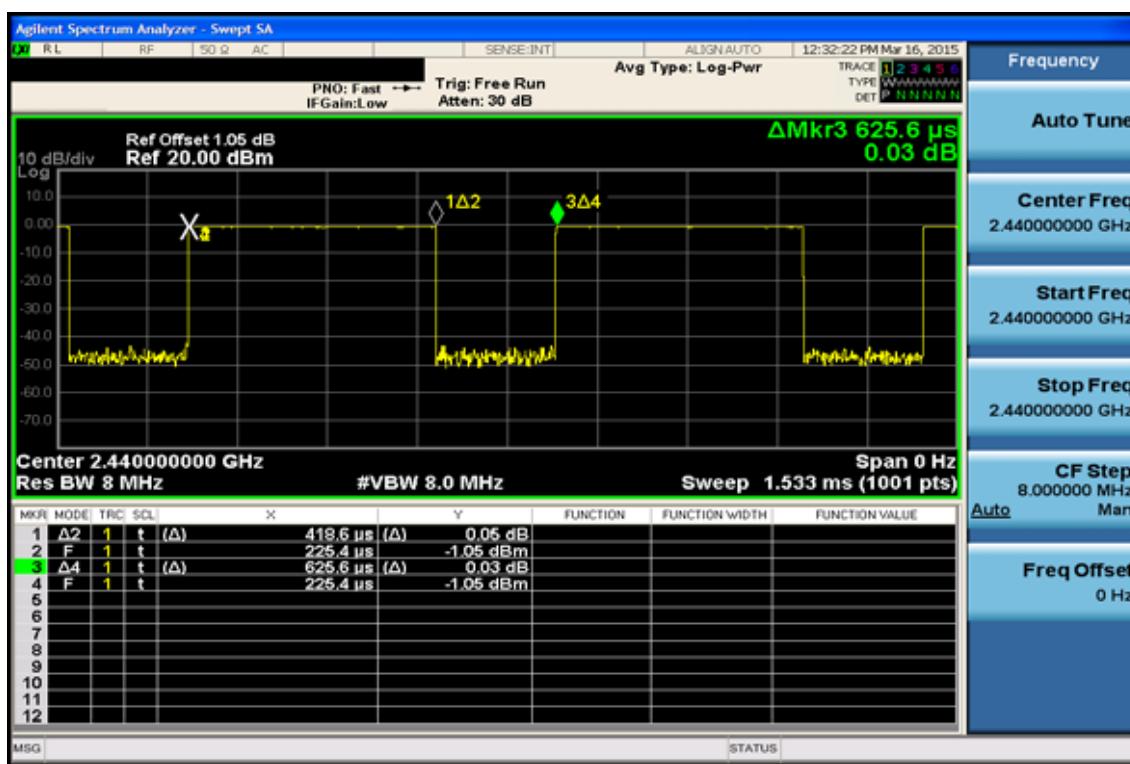
1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the power meter.

Power Meter:

It is used as the auxiliary test equipment to conduct the output power measurement.

4. Record the max. Reading as observed from Power Meter.
5. Repeat above procedures until all test default channel measured was complete.

Duty Factor:



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7.5 Measurement Result:

BT4.0 mode:

| CH | Frequency (MHz) | Peak Power Output(dBm) | Required Limit |
|----|-----------------|------------------------|-----------------|
| 0 | 2402 | -0.53 | 1 Watt = 30 dBm |
| 20 | 2440 | -0.76 | 1 Watt = 30 dBm |
| 39 | 2480 | -1.37 | 1 Watt = 30 dBm |

| CH | Frequency (MHz) | Average Power Output(dBm) | Required Limit |
|----|-----------------|---------------------------|-----------------|
| 0 | 2402 | -2.22 | 1 Watt = 30 dBm |
| 20 | 2440 | -2.51 | 1 Watt = 30 dBm |
| 39 | 2480 | -3.15 | 1 Watt = 30 dBm |

*Note: Measured by power meter, as cable loss+ Duty cycle factor that offsets on the power meter

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8 6dB BANDWIDTH

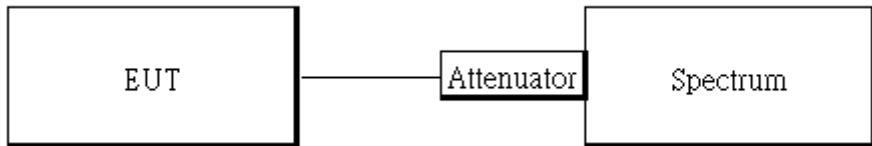
8.1 Standard Applicable

The minimum 6 dB bandwidth shall be at least 500 kHz .

8.2 Measurement Equipment Used

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 10/15/2014 | 10/14/2015 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/19/2014 | 12/18/2015 |

8.3 Test Set-up:



8.4 Measurement Procedure:

1. Place the EUT on the table and set it in transmitting mode.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
2. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
3. Set the spectrum analyzer as RBW = 100 kHz, VBW = 3*RBW, Span = 5MHz, Detector=Peak, Sweep=auto.
4. Mark the peak frequency and -6dB (upper and lower) frequency.
5. Repeat above procedures until all test default channel measured were complete.

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8.5 Measurement Result:

BT4.0 mode

| Frequency (MHz) | Bandwidth (kHz) | Bandwidth (kHz) | Result |
|--------------------|--------------------|--------------------|--------|
| 2402 | 668.7 | > 500 | PASS |
| 2440 | 673.4 | > 500 | PASS |
| 2480 | 673.2 | > 500 | PASS |

* Note: The arrow “->” reveals X decibel level

Note: Refer to next page for plots.

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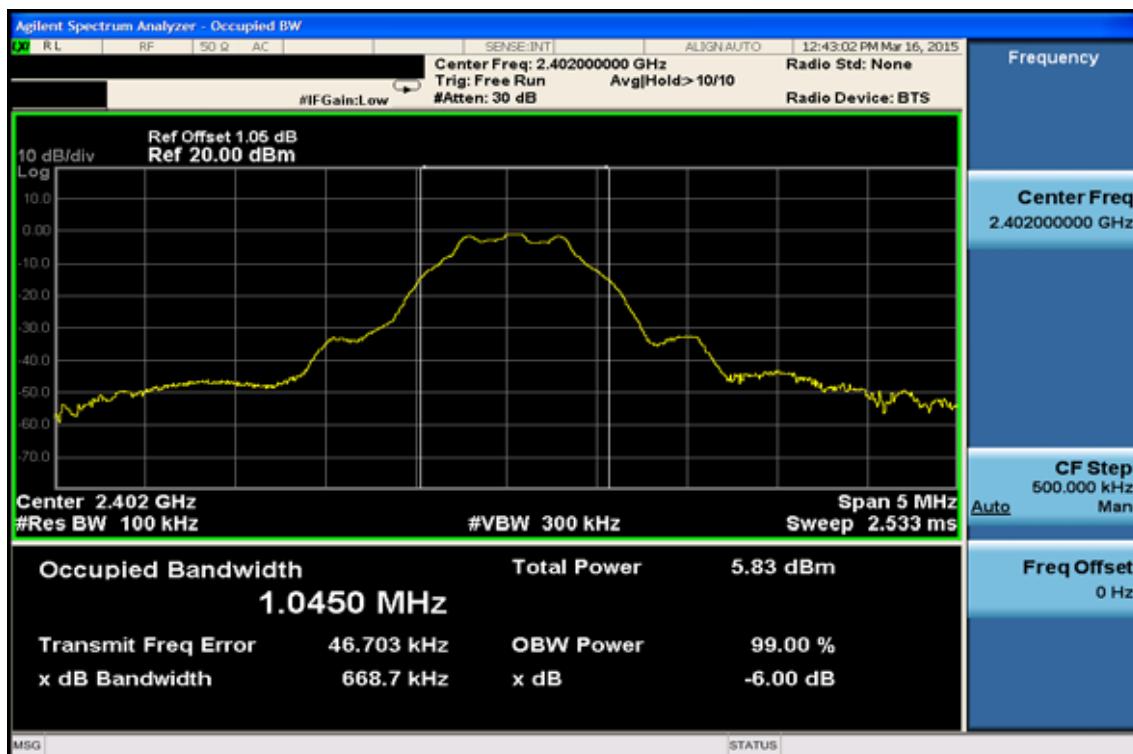
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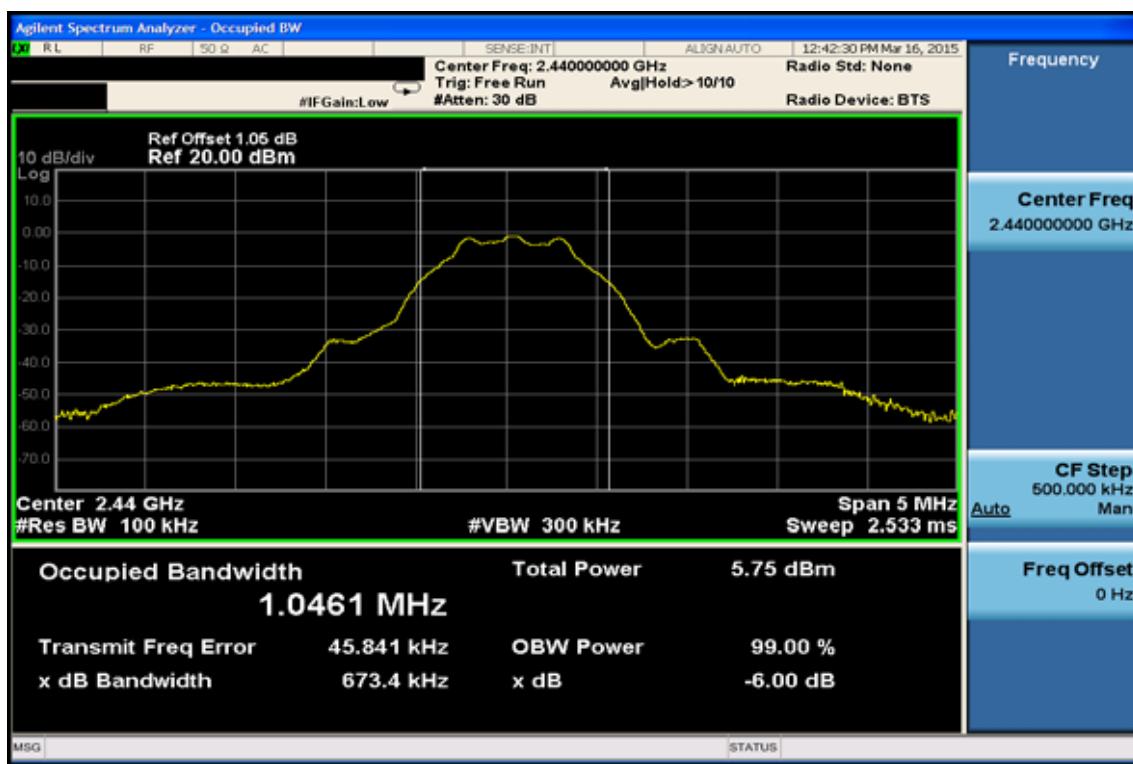
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BT4.0 mode

6dB Band Width Test Data CH-Low



6dB Band Width Test Data CH-Mid

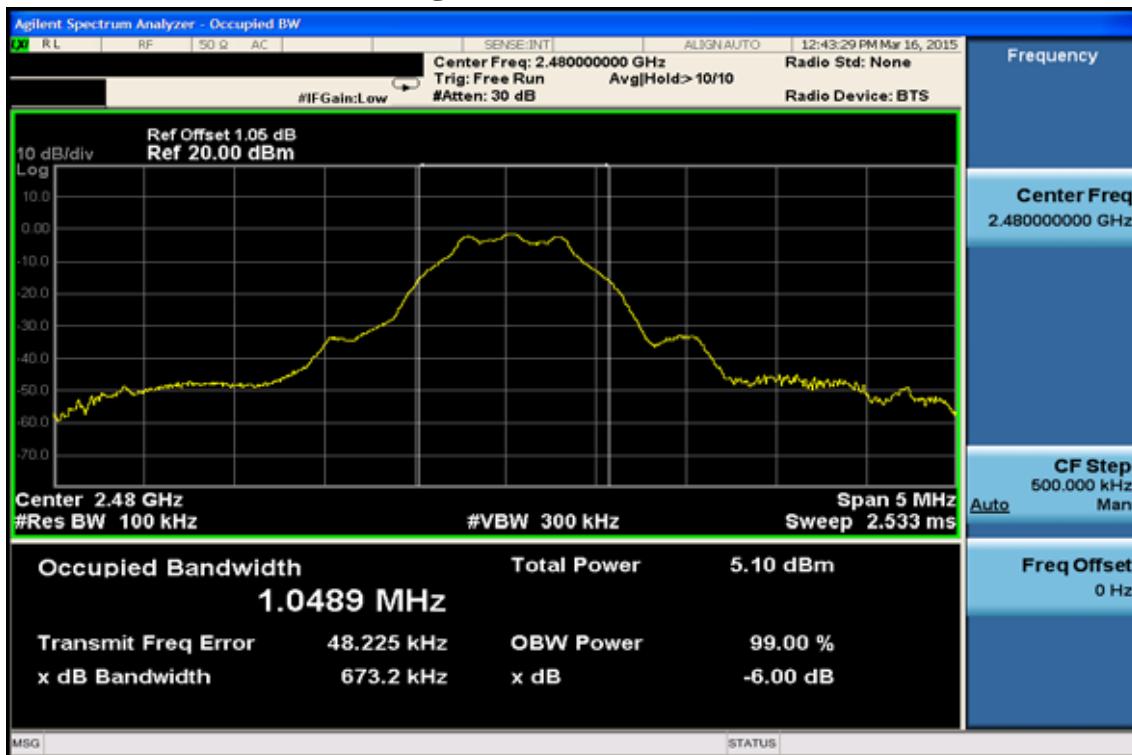


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6dB Band Width Test Data CH-High



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9 CONDUCTED BAND EDGES AND SPURIOUS EMISSION MEASUREMENT

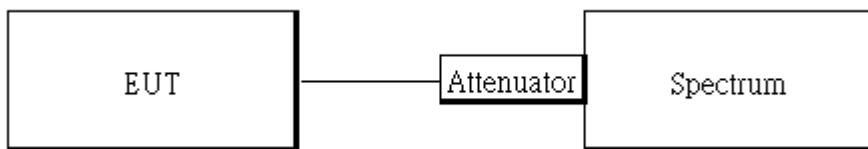
9.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a).

9.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 10/15/2014 | 10/14/2015 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/19/2014 | 12/18/2015 |

9.3 Test SET-UP:



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9.4 Measurement Procedure

Conducted Band Edge:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
3. Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to the spectrum analyzer.
4. Set start to edge frequency, and stop frequency of spectrum analyzer so as to encompass the spectrum to be examined.
5. Set the spectrum analyzer as RBW, VBW=300KHz, Detector = Peak, Sweep = auto
6. Mark the highest reading of the emission as the reference level measurement.
7. Set DL as the limit = reading on marker 1 – 20dBm
8. Marker on frequency, 2.3999GHz and 2.4836GHz, and examine shall 100 KHz immediately outside the authorized (2400~2483.5) be attenuated by 20dB at least relative to the maximum emission of power.
9. Repeat above procedures until all default test channel (low, middle, and high) was complete.

Conducted Spurious Emission:

1. To connect Antenna Port of EUT to Spectrum.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
3. Set RBW = 100K & VBW \geq 300K, Detector =Peak, Sweep = Auto
4. Allow trace to fully stabilize.
5. Use the peak marker function to determine the maximum power level in any 100 kHz band segment within the fundamental EBW.
6. Repeat above procedures until all default test channel measured were complete.

9.5 Measurement Result

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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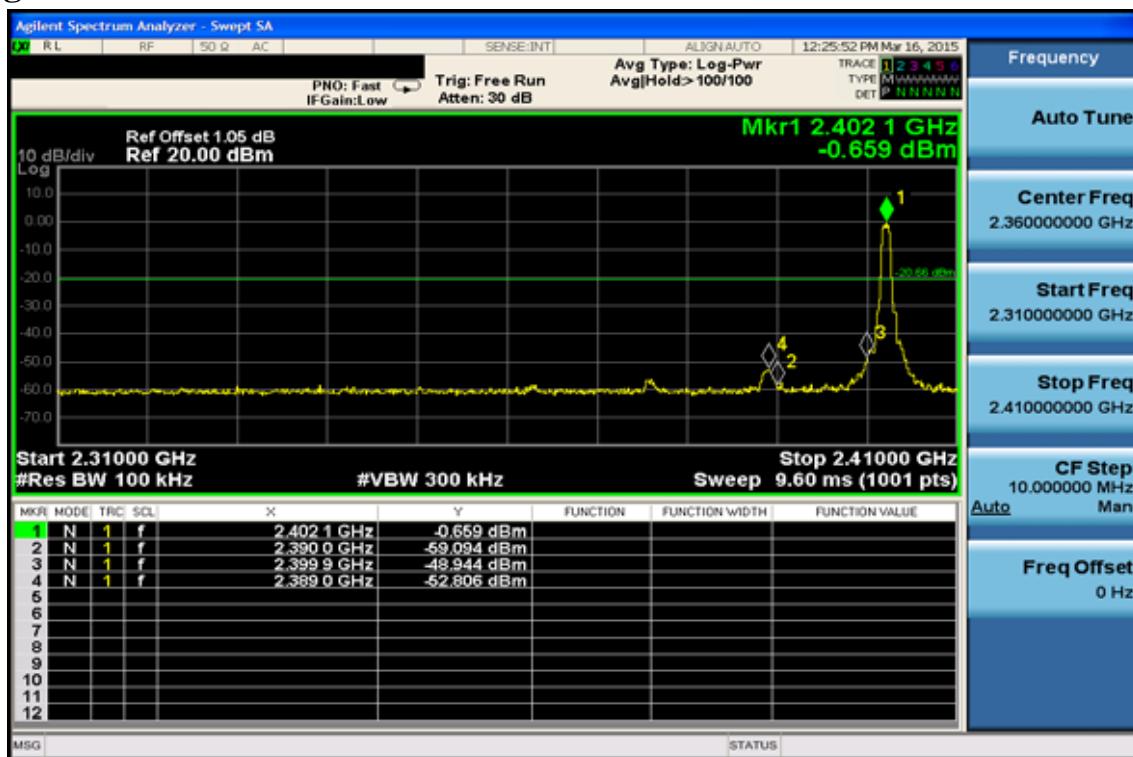
f (886-2) 2298-0488

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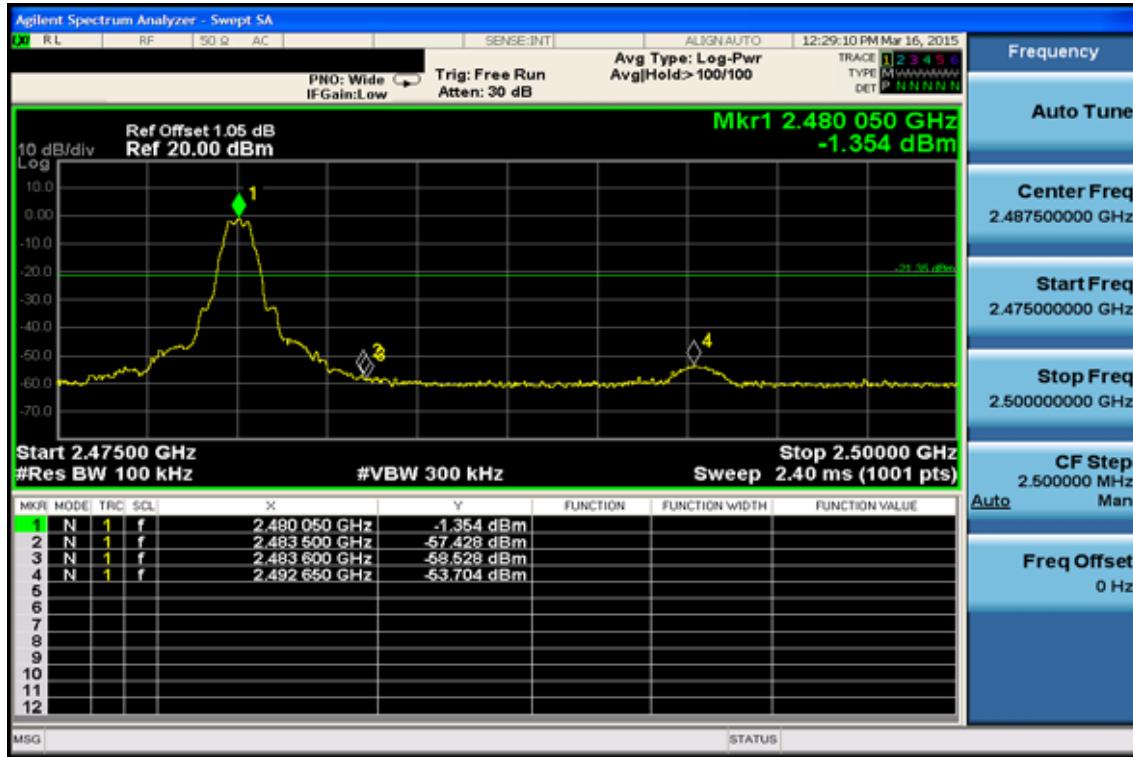
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BT4.0 mode

Band Edges Test Data CH-Low



Band Edges Test Data CH-High



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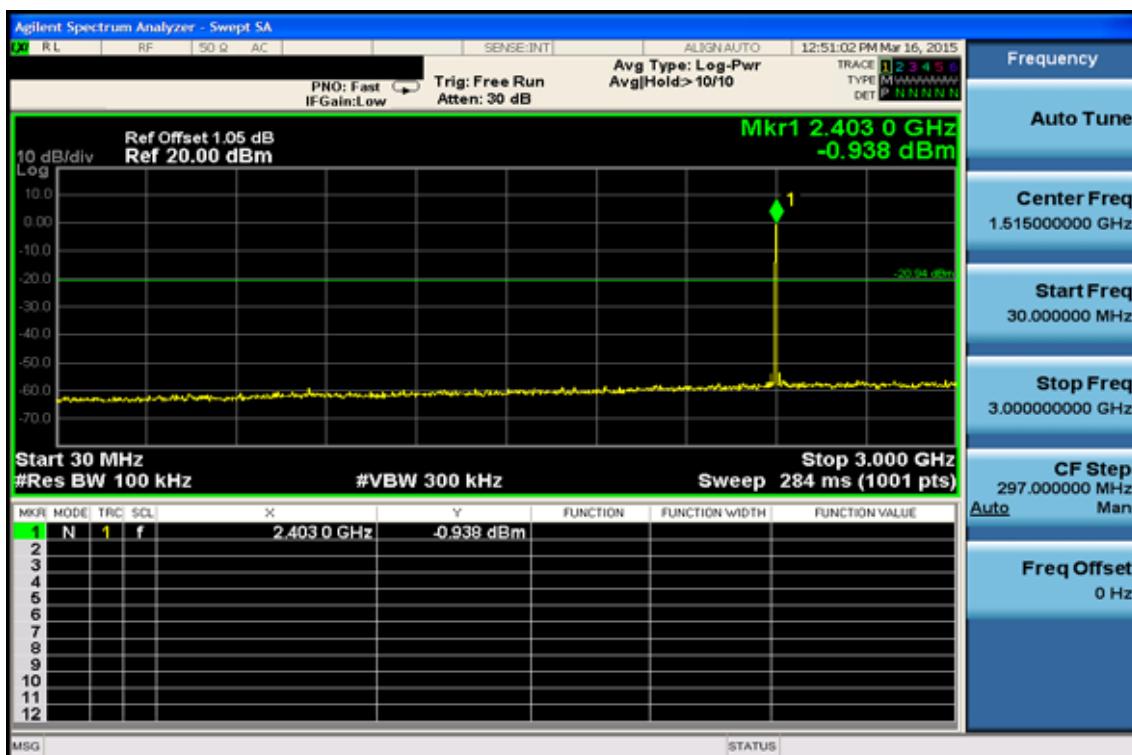
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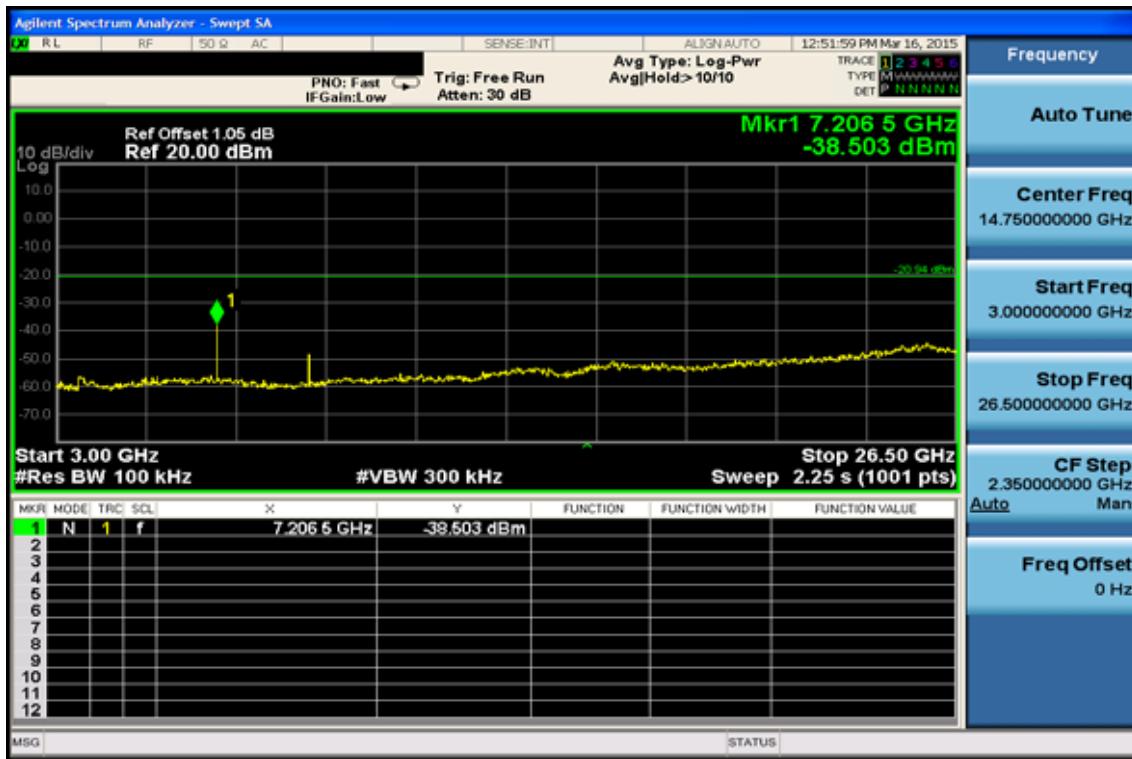
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Conducted Spurious Emission Measurement Result

CH-Low 30MHz – 3GHz



CH-Low 3GHz – 26.5GHz

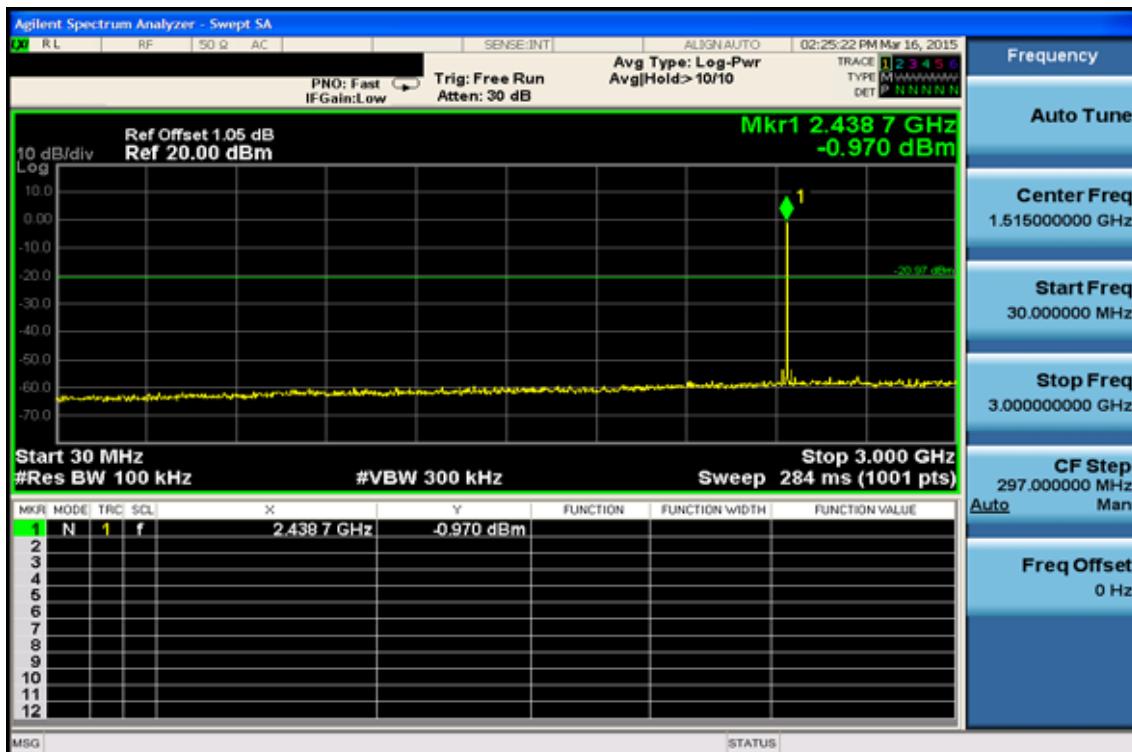


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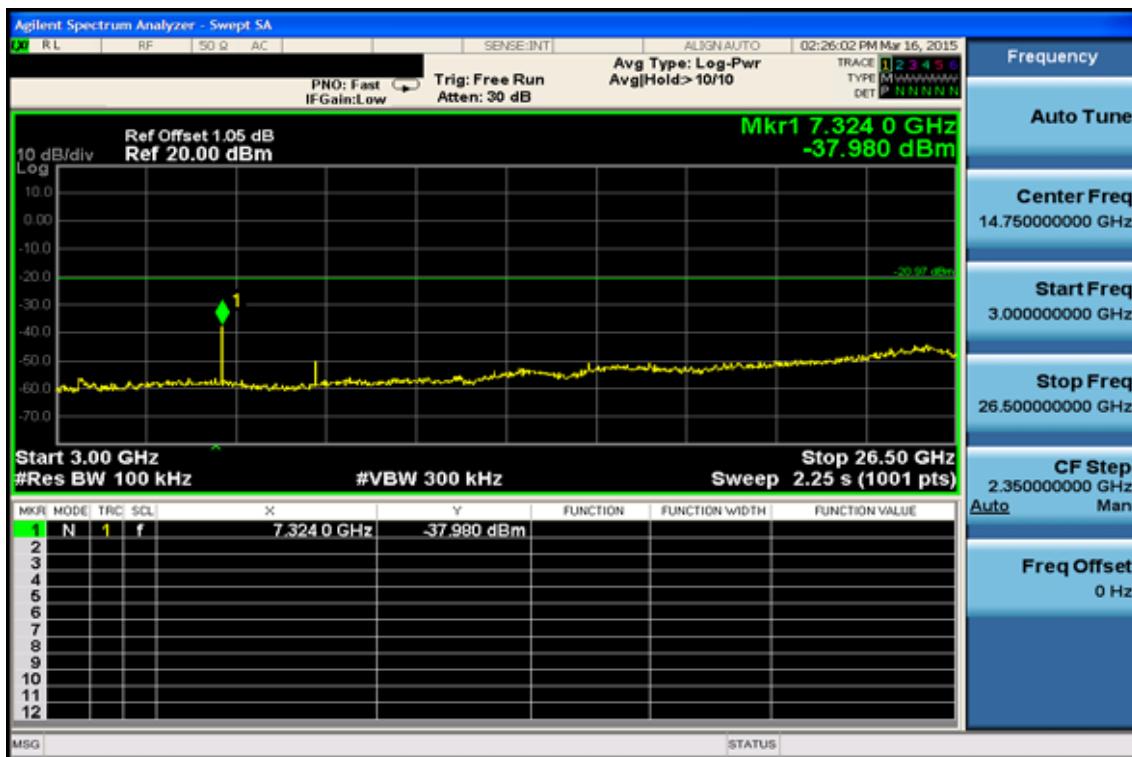
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CH-Mid 30MHz – 3GHz



CH-Mid 3GHz – 26.5GHz



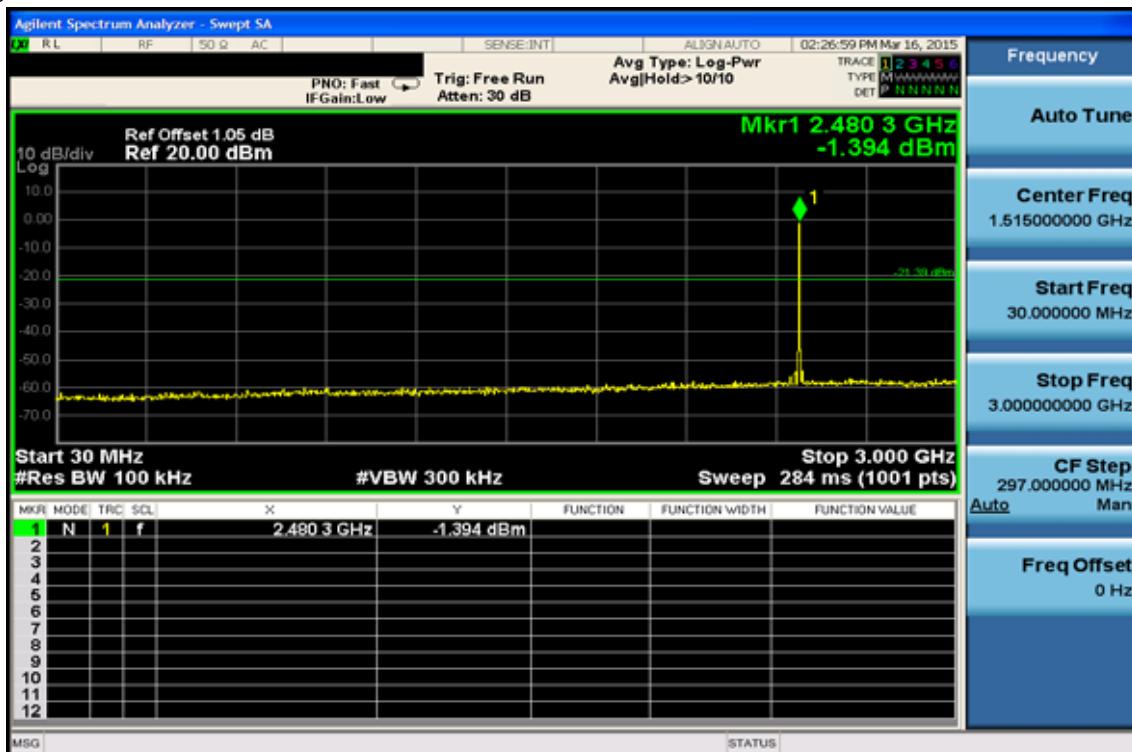
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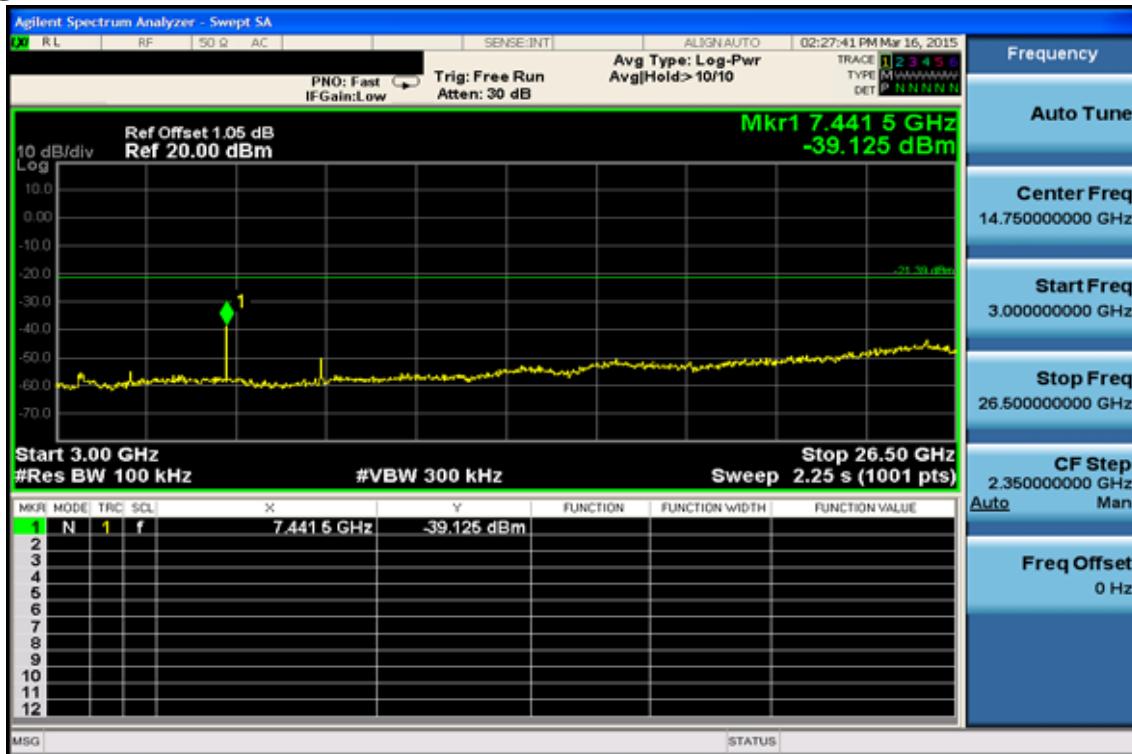
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CH-High 30MHz – 3GHz



CH- High 3GHz – 26.5GHz



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10 RADIATED BANDEDGE AND SPURIOUS EMISSION MEASUREMENT

10.1 Standard Applicable

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. In addition, radiated emissions which fall in the restricted bands must also comply with the §15.209 limit as below.

And according to §15.33(a) (1), for an intentional radiator operates below 10GHz, the frequency range of measurements: to the tenth harmonic of the highest fundamental frequency or to 40GHz, whichever is lower.

| Frequency (MHz) | Field strength (microvolts/meter) | Distance (meters) |
|-----------------|-----------------------------------|-------------------|
| 0.009-0.490 | 2400/F(KHz) | 300 |
| 0.490-1.705 | 24000/F(KHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

1. The lower limit shall apply at the transition frequencies.
2. Emission level (dB μ V/m) = 20 log Emission level (dB μ V/m)

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10.2 Measurement Equipment Used

| 966 Chamber | | | | | |
|-------------------|-----------------|--------------------------------|------------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| EMI Test Receiver | R&S | ESU 40 | 100363 | 04/09/2015 | 04/08/2016 |
| Loop Antenna | ETS-Lindgren | 6502 | 00143303 | 12/09/2014 | 12/08/2015 |
| Broadband Antenna | TESEQ | CBL 6112D | 35240 | 12/05/2014 | 12/04/2015 |
| Horn Antenna | ETS-Lindgren | 3117 | 00143272 | 12/08/2014 | 12/07/2015 |
| Horn Antenna | ETS-Lindgren | 3160-09 | 00117911 | 11/13/2014 | 11/12/2015 |
| Horn Antenna | ETS-Lindgren | 3160-10 | 00117783 | 11/13/2014 | 11/12/2015 |
| Pre Amplifier | EMC Instruments | EMC330 | 980096 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | EMC Instruments | EMC0011830 | 980199 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | R&S | SCU-18 | 10204 | 12/19/2014 | 12/18/2015 |
| Pre Amplifier | R&S | SCU-26 | 100780 | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U | 966Rx 9K-30M | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | RG 214/U SUCOFLEX 104 | 966Rx 30M-3G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Rx 1G-18G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | mini 141-12 SUCOFLEX 104 | 966Rx 18G-40G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 104 | 966Tx 30M-18G | 12/19/2014 | 12/18/2015 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 966Tx 18G-40G | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF27 | 12/19/2014 | 12/18/2015 |
| Site NSA | SGS | 966 Chamber C | SAC-C | 03/04/2015 | 03/03/2016 |
| Site VSWR | SGS | 966 Chamber C | SAC-C | 03/04/2015 | 03/03/2016 |
| DC Power Supply | HOLA | DP-3003 | D7070035 | 05/31/2014 | 05/30/2015 |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Test Software | World-Pallas | Dr. E | V 3.0 Lite | N.C.R. | N.C.R. |

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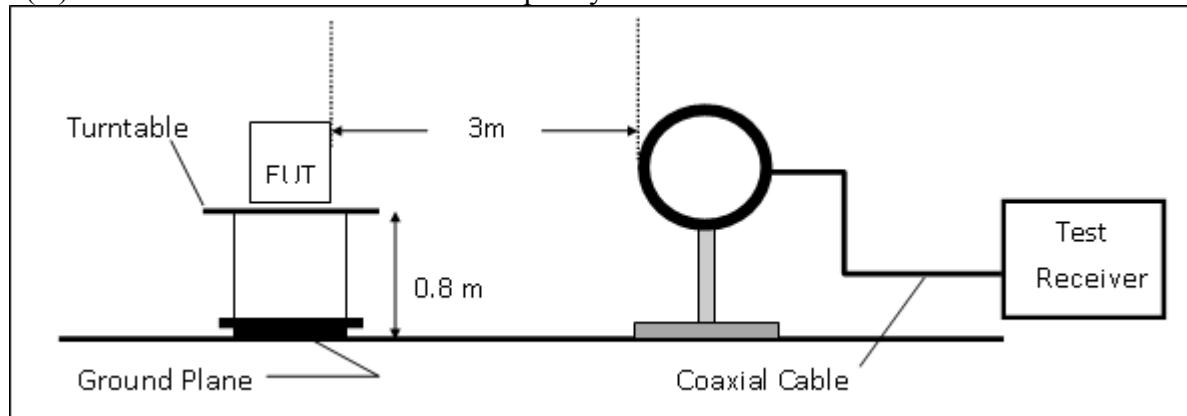
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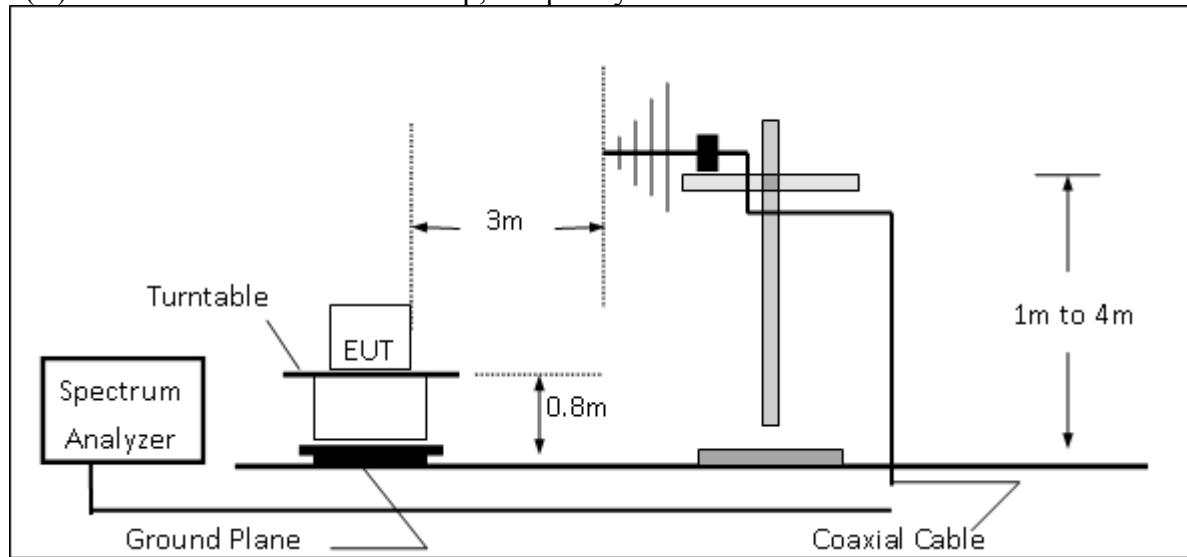
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10.3 Test SET-UP

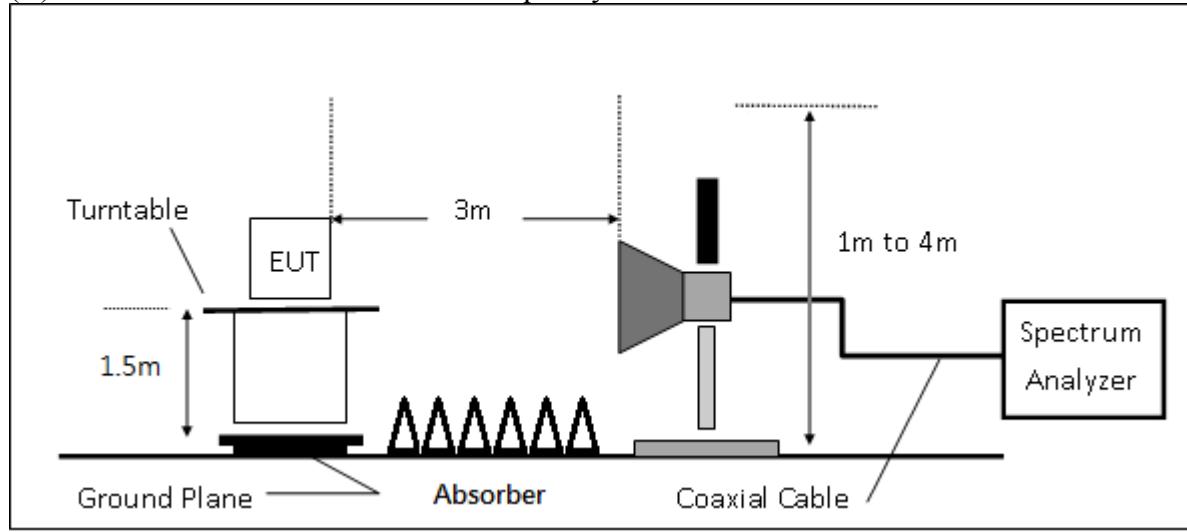
(A) Radiated Emission Test Set-UP Frequency Below 30MHz.



(B) Radiated Emission Test Set-UP, Frequency from 30MHz to 1000MHz



(C) Radiated Emission Test Set-UP Frequency Over 1 GHz



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10.4 Measurement Procedure

1. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
2. The EUT was placed on a turn table with 0.8m for frequency < 1GHz and 1.5m for frequency > 1GHz above ground plane.
3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emissions.
5. Set the spectrum analyzer as RBW=120 kHz and VBW=300 kHz for Peak Detector (PK) and Quasi-peak (QP) at frequency below 1 GHz.
6. Set the spectrum analyzer as RBW=1 MHz, VBW=3 MHz for Peak Detector at frequency above 1 GHz.
7. Set the spectrum analyzer as RBW=1 MHz, VBW=10 Hz (Duty cycle > 98%) or VBW \geq 1/T (Duty cycle < 98%) for Average Detector at frequency above 1 GHz.
8. When measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made “while keeping the antenna in the ‘cone of radiation’ from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response.” is still within the 3dB illumination BW of the measurement antenna.
9. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
10. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. On spectrum, change spectrum mode in linear display mode, and reduce VBW = 10Hz if average reading is measured.
11. Repeat above procedures until all default test channel measured were complete.

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10.5 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| | | |
|-------|------------------------|--|
| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

Actual FS(dB μ V/m) = SPA. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dB μ V/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

Note :

“F” : denotes Fundamental Frequency. ; “H” : denotes Harmonic Frequency.

“E” : denotes Band Edge Frequency. ; “S” : denotes Spurious Frequency.

10.6 Test Results of Radiated Spurious Emissions form 9 KHz to 30 MHz

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit per 15.31(o) was not reported.

10.7 Measurement Result:

Note: Refer to next page spectrum analyzer data chart and tabular data sheets.

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Radiated Band Edge Measurement Result (BT4.0 mode)

| | | | |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :Band Edge LOW | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |

| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|-----------------|---------------------------|------------|--------------|------------------------------|------------------------------|--------------|
| | | | PK/QP/AV | dB μ V | | | | |
| 2388.98 | Peak | S | | 53.26 | 6.62 | 59.88 | 74.00 | -14.12 |
| 2388.98 | Average | S | | 31.27 | 6.62 | 37.89 | 54.00 | -16.11 |
| 2390.00 | Peak | E | | 49.07 | 6.62 | 55.68 | 74.00 | -18.32 |
| 2390.00 | Average | E | | 31.39 | 6.62 | 38.01 | 54.00 | -15.99 |

| | | | |
|-----------------------|----------------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :Band Edge LOW | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |

| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------|-----------------|---------------------------|------------|--------------|------------------------------|------------------------------|--------------|
| | | | PK/QP/AV | dB μ V | | | | |
| 2388.76 | Peak | S | | 49.20 | 6.62 | 55.82 | 74.00 | -18.18 |
| 2388.76 | Average | S | | 31.23 | 6.62 | 37.85 | 54.00 | -16.15 |
| 2390.00 | Peak | E | | 45.97 | 6.62 | 52.59 | 74.00 | -21.41 |
| 2390.00 | Average | E | | 31.17 | 6.62 | 37.79 | 54.00 | -16.21 |

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Operation Band :BT4.0
 Fundamental Frequency :2480 MHz
 Operation Mode : Band Edge HIGH
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :VERTICAL

| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum | | Factor | Actual FS | Limit @3m | Margin |
|--------------|------------------|-----------------|----------|---------------------|--------|--------------|--------------|--------|
| | | | Reading | Level dB μ V | | | | |
| 2483.50 | Peak | E | 49.19 | 6.96 | 56.16 | 74.00 | -17.84 | |
| 2483.50 | Average | E | 39.73 | 6.96 | 46.69 | 54.00 | -7.31 | |
| 2492.50 | Peak | S | 53.24 | 7.00 | 60.24 | 74.00 | -13.76 | |
| 2492.50 | Average | S | 31.51 | 7.00 | 38.51 | 54.00 | -15.49 | |

Operation Band :BT4.0
 Fundamental Frequency :2480 MHz
 Operation Mode : Band Edge HIGH
 EUT Pol. :H Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :HORIZONTAL

| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum | | Factor | Actual FS | Limit @3m | Margin |
|--------------|------------------|-----------------|----------|---------------------|--------|--------------|--------------|--------|
| | | | Reading | Level dB μ V | | | | |
| 2483.50 | Peak | E | 45.23 | 6.96 | 52.19 | 74.00 | -21.81 | |
| 2483.50 | Average | E | 35.65 | 6.96 | 42.61 | 54.00 | -11.39 | |
| 2492.70 | Peak | S | 47.60 | 7.00 | 54.59 | 74.00 | -19.41 | |
| 2492.70 | Average | S | 31.33 | 7.00 | 38.33 | 54.00 | -15.67 | |

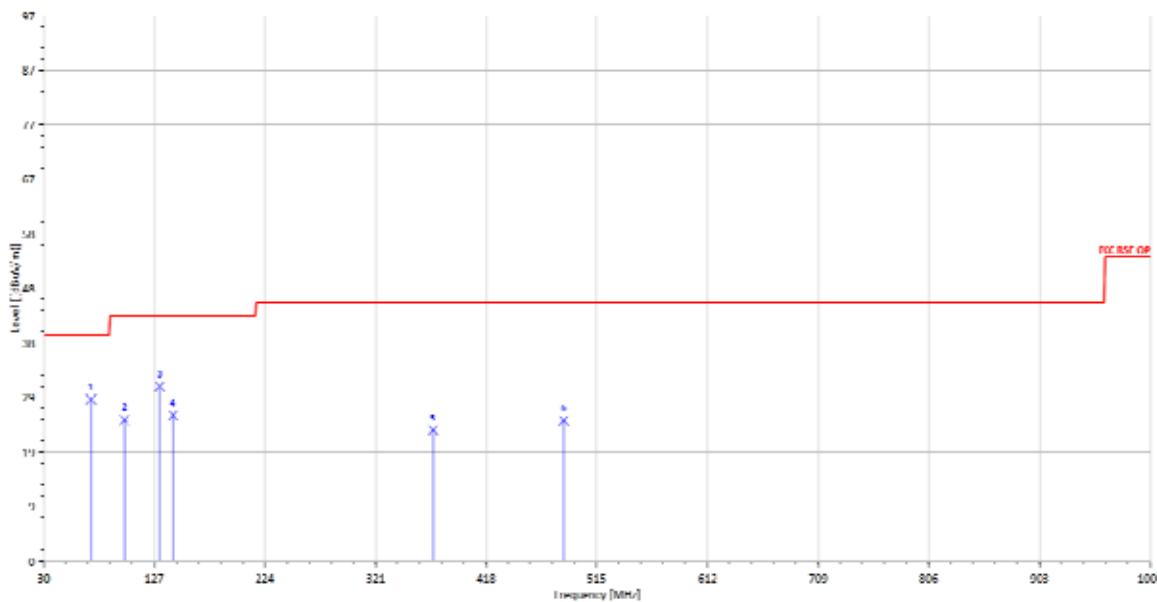
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Radiated Spurious Emission Measurement Result (BT4.0 mode) For Frequency from 30MHz to 1000MHz

| | | | |
|-----------------------|-----------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|---------------|--------------|------------------------|------------------------|--------------|
| | | | Reading | Level dBµV | | | | |
| 71.71 | Peak | S | 56.37 | -27.63 | 28.74 | 40.00 | 40.00 | -11.26 |
| 100.81 | Peak | S | 48.80 | -23.69 | 25.11 | 43.50 | 43.50 | -18.39 |
| 131.85 | Peak | S | 52.43 | -21.38 | 31.05 | 43.50 | 43.50 | -12.45 |
| 143.49 | Peak | S | 47.94 | -22.04 | 25.90 | 43.50 | 43.50 | -17.60 |
| 371.44 | Peak | S | 40.02 | -16.74 | 23.28 | 46.00 | 46.00 | -22.72 |
| 485.90 | Peak | S | 39.26 | -14.23 | 25.03 | 46.00 | 46.00 | -20.97 |

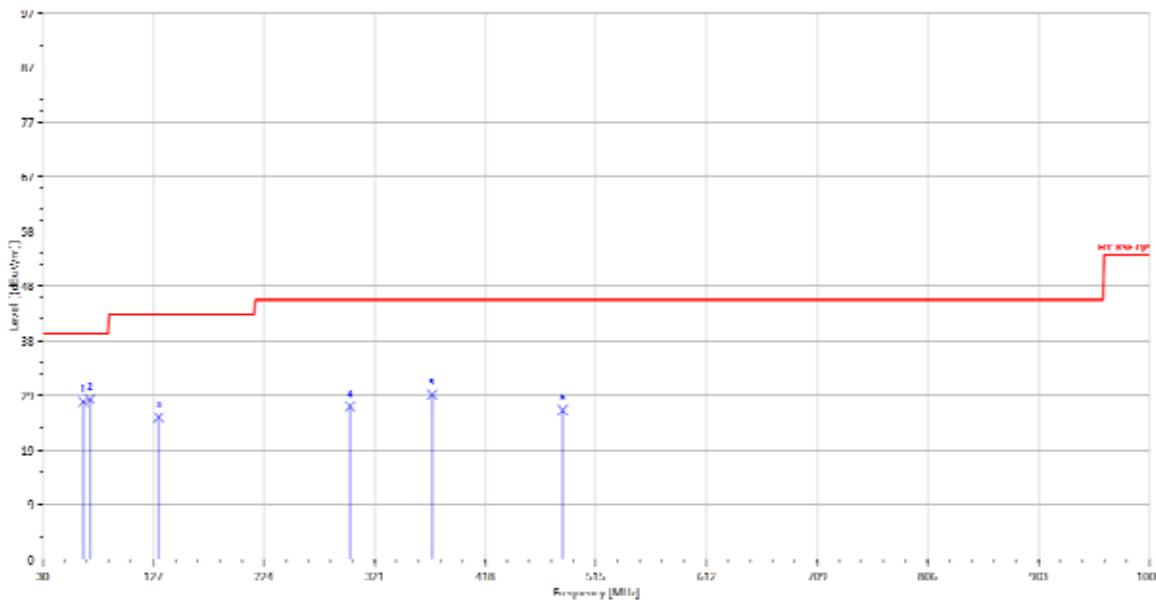
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Operation Band :BT4.0
 Fundamental Frequency :2402 MHz
 Operation Mode :TX LOW
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------|--------------|------------------------|------------------------|--------------|
| | | | dBµV | | | | | |
| 65.89 | Peak | S | 56.01 | -28.09 | 27.92 | 40.00 | -12.08 | |
| 71.71 | Peak | S | 55.99 | -27.63 | 28.36 | 40.00 | -11.64 | |
| 131.85 | Peak | S | 46.58 | -21.38 | 25.20 | 43.50 | -18.30 | |
| 299.66 | Peak | S | 46.37 | -19.28 | 27.09 | 46.00 | -18.91 | |
| 371.44 | Peak | S | 45.97 | -16.74 | 29.22 | 46.00 | -16.78 | |
| 485.90 | Peak | S | 40.67 | -14.23 | 26.43 | 46.00 | -19.57 | |

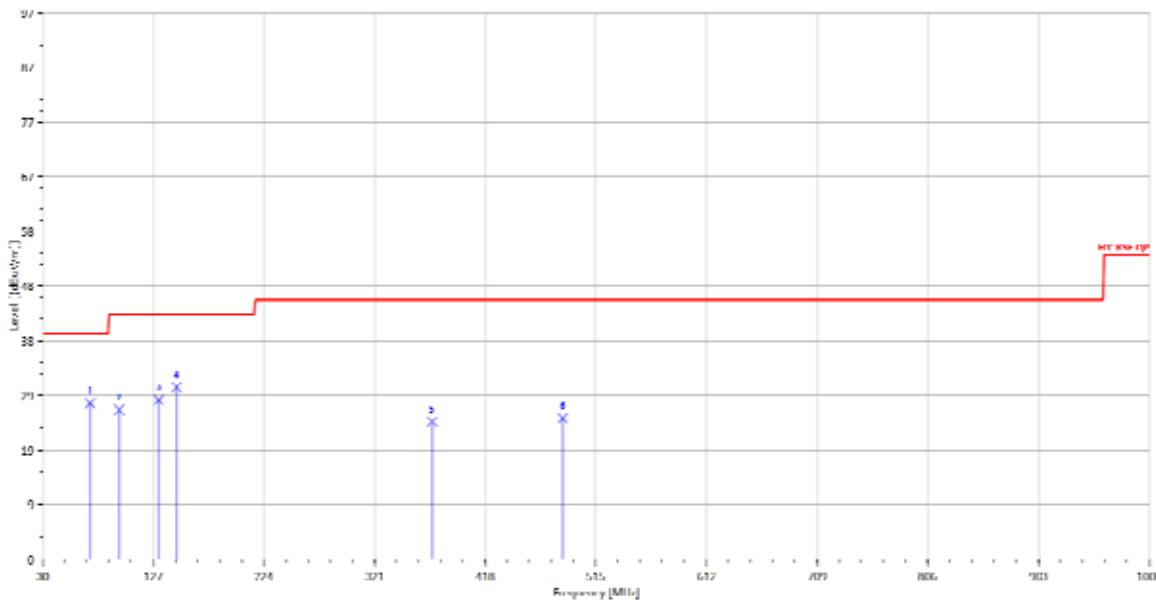
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Operation Band :BT4.0
 Fundamental Frequency :2440 MHz
 Operation Mode :TX MID
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :VERTICAL



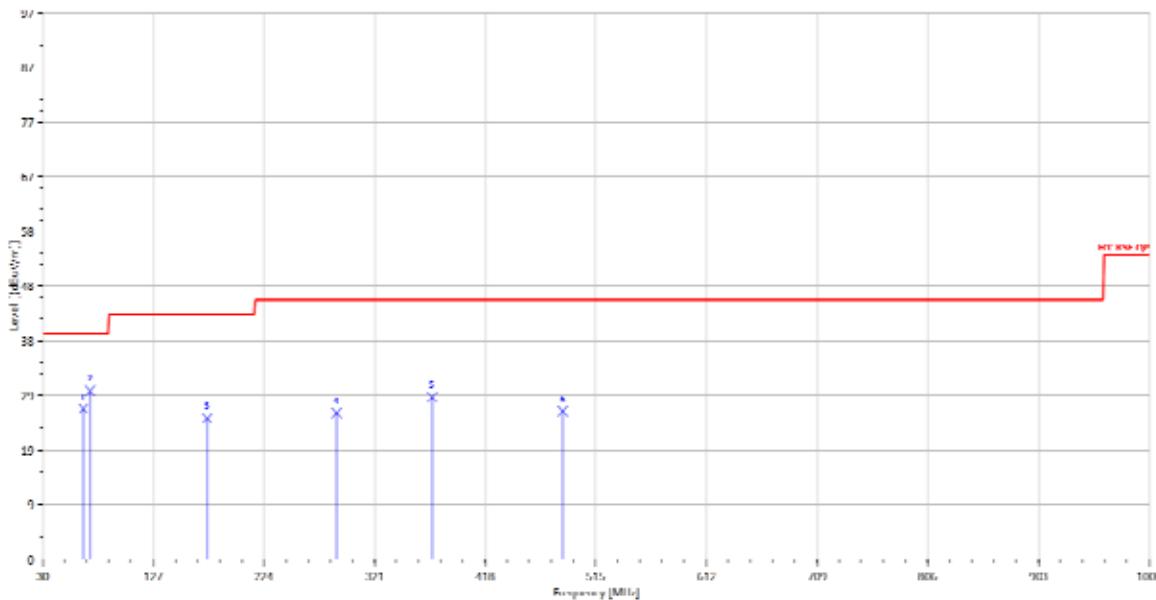
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------|--------------|------------------------|------------------------|--------------|
| | | | dBµV | | | | | |
| 71.71 | Peak | S | 55.28 | -27.63 | 27.65 | 40.00 | -12.35 | |
| 96.93 | Peak | S | 50.86 | -24.36 | 26.49 | 43.50 | -17.01 | |
| 131.85 | Peak | S | 49.62 | -21.38 | 28.24 | 43.50 | -15.26 | |
| 147.37 | Peak | S | 52.98 | -22.45 | 30.53 | 43.50 | -12.97 | |
| 371.44 | Peak | S | 41.12 | -16.74 | 24.38 | 46.00 | -21.62 | |
| 485.90 | Peak | S | 39.24 | -14.23 | 25.01 | 46.00 | -20.99 | |

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| | | | |
|-----------------------|-----------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2440 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :TX MID | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



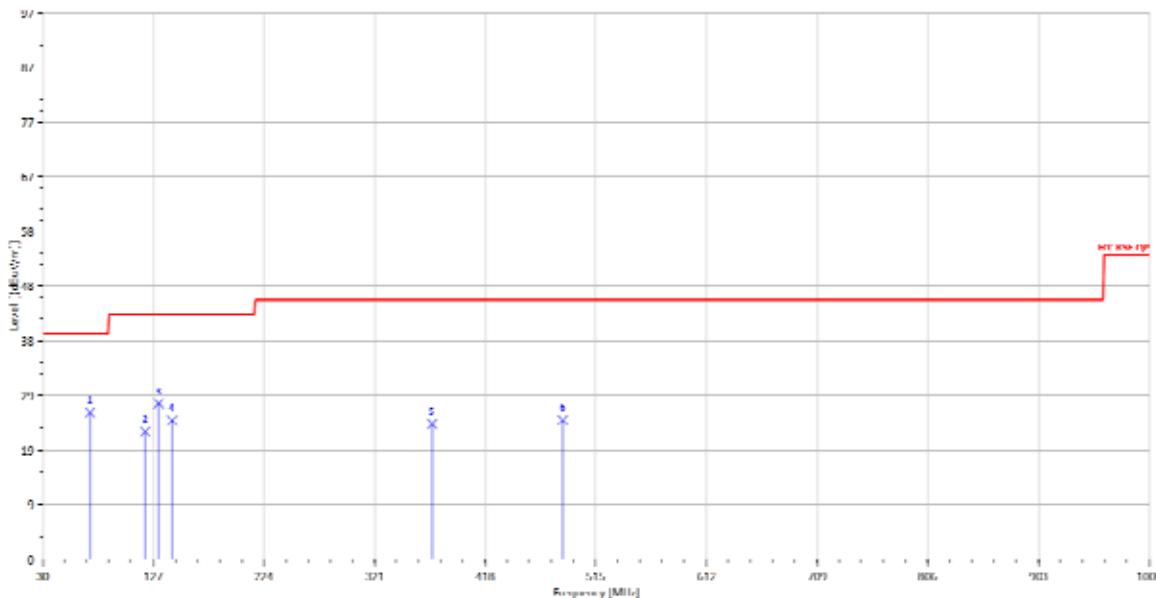
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------|--------------|------------------------|------------------------|--------------|
| | | | dBµV | | | | | |
| 65.89 | Peak | S | 54.79 | -28.09 | 26.69 | 40.00 | 40.00 | -13.31 |
| 71.71 | Peak | S | 57.48 | -27.63 | 29.85 | 40.00 | 40.00 | -10.15 |
| 174.53 | Peak | S | 49.01 | -24.02 | 24.98 | 43.50 | 43.50 | -18.52 |
| 288.02 | Peak | S | 45.41 | -19.45 | 25.96 | 46.00 | 46.00 | -20.04 |
| 371.44 | Peak | S | 45.49 | -16.74 | 28.75 | 46.00 | 46.00 | -17.25 |
| 485.90 | Peak | S | 40.50 | -14.23 | 26.26 | 46.00 | 46.00 | -19.74 |

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| | | | |
|-----------------------|-----------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------|--------------|------------------------|------------------------|--------------|
| | | | dBµV | | | | | |
| 71.71 | Peak | S | 53.66 | -27.63 | 26.03 | 40.00 | 40.00 | -13.97 |
| 120.21 | Peak | S | 44.09 | -21.43 | 22.65 | 43.50 | 43.50 | -20.85 |
| 131.85 | Peak | S | 48.99 | -21.38 | 27.61 | 43.50 | 43.50 | -15.89 |
| 143.49 | Peak | S | 46.62 | -22.04 | 24.58 | 43.50 | 43.50 | -18.92 |
| 371.44 | Peak | S | 40.72 | -16.74 | 23.98 | 46.00 | 46.00 | -22.02 |
| 485.90 | Peak | S | 38.90 | -14.23 | 24.67 | 46.00 | 46.00 | -21.33 |

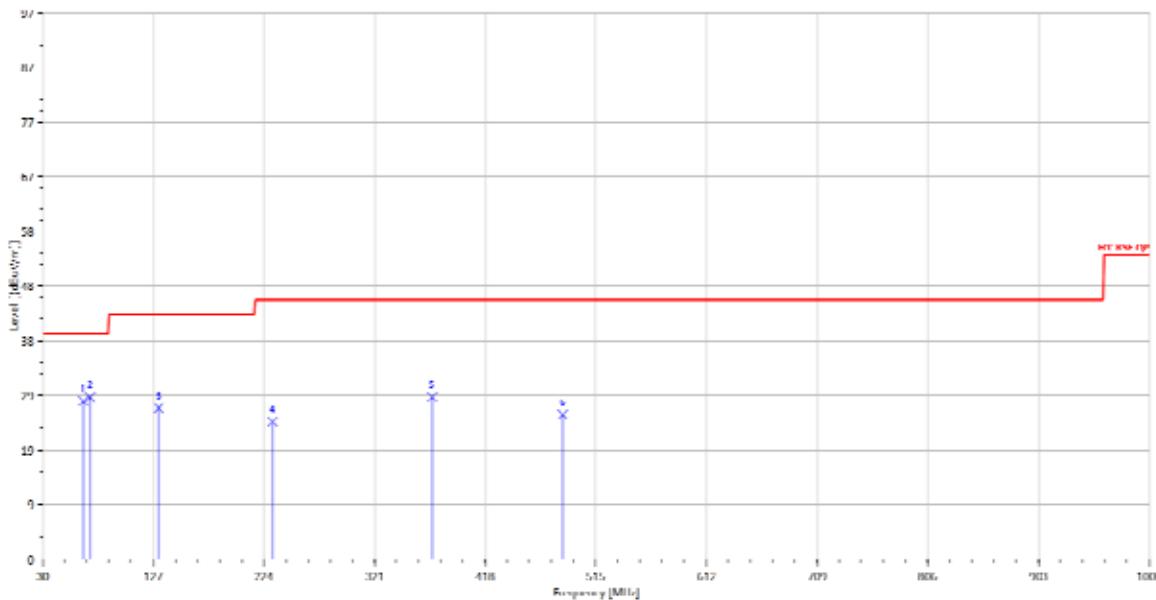
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Operation Band :BT4.0
 Fundamental Frequency :2480 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------|--------------|------------------------|------------------------|--------------|
| | | | dBµV | | | | | |
| 65.89 | Peak | S | 56.12 | -28.09 | 28.03 | 40.00 | -11.97 | |
| 71.71 | Peak | S | 56.36 | -27.63 | 28.73 | 40.00 | -11.27 | |
| 131.85 | Peak | S | 48.21 | -21.38 | 26.83 | 43.50 | -16.67 | |
| 231.76 | Peak | S | 46.44 | -22.08 | 24.36 | 46.00 | -21.64 | |
| 371.44 | Peak | S | 45.52 | -16.74 | 28.78 | 46.00 | -17.22 | |
| 485.90 | Peak | S | 39.90 | -14.23 | 25.67 | 46.00 | -20.33 | |

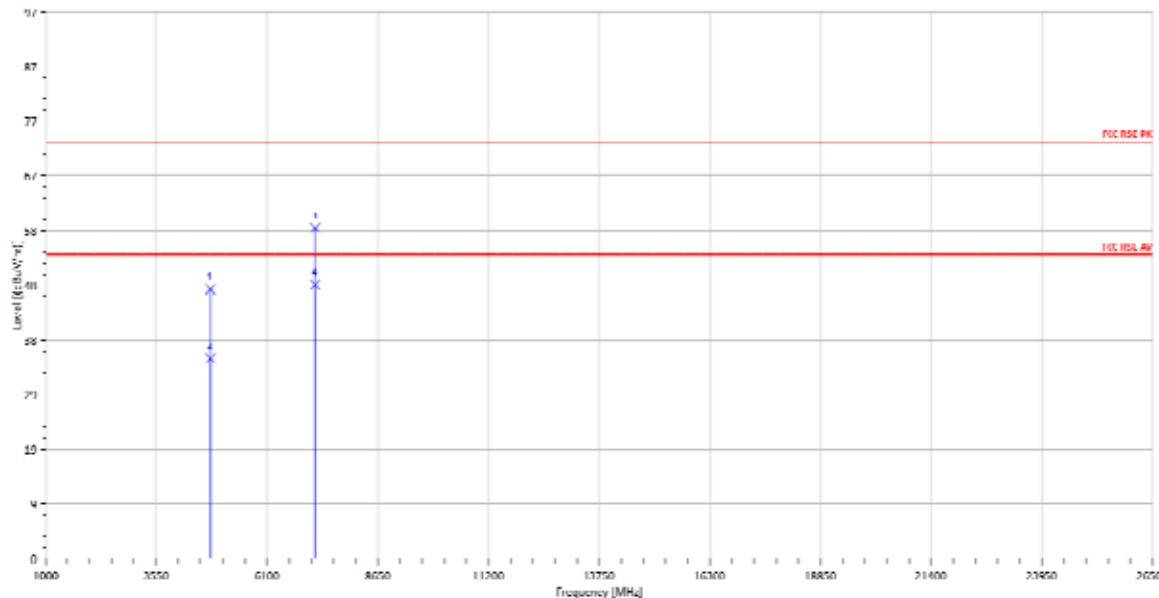
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For Frequency above 1GHz

| | | | |
|-----------------------|-----------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2402 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :TX LOW | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :VERTICAL |



| Freq. MHz | Detector Mode | Note F/H/E/S | Spectrum | | Factor | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------|-----------------|----------|---------------|--------|------------------------|------------------------|--------------|
| | | | Reading | Level dBµV | | | | |
| 4804.00 | Peak | H | | 36.80 | 10.98 | 47.78 | 74.00 | -26.22 |
| 4804.00 | Average | H | | 24.53 | 10.98 | 35.51 | 54.00 | -18.49 |
| 7206.00 | Peak | H | | 43.49 | 15.14 | 58.63 | 74.00 | -15.37 |
| 7206.00 | Average | H | | 33.44 | 15.14 | 48.58 | 54.00 | -5.42 |

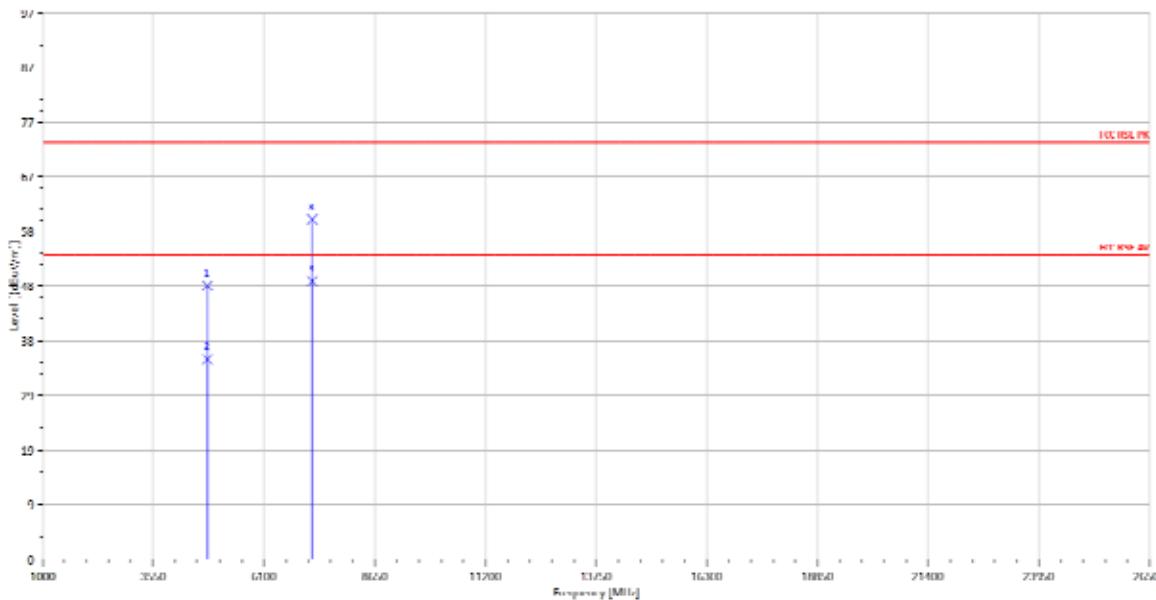
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Operation Band :BT4.0
 Fundamental Frequency :2402 MHz
 Operation Mode :TX LOW
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|-------|--------------|------------------------|------------------------|--------------|
| | | | | dBµV | | | | |
| 4804.00 | Peak | H | 37.56 | 10.98 | 48.54 | 74.00 | -25.46 | |
| 4804.00 | Average | H | 24.50 | 10.98 | 35.48 | 54.00 | -18.52 | |
| 7206.00 | Peak | H | 45.15 | 15.14 | 60.29 | 74.00 | -13.71 | |
| 7206.00 | Average | H | 34.23 | 15.14 | 49.37 | 54.00 | -4.63 | |

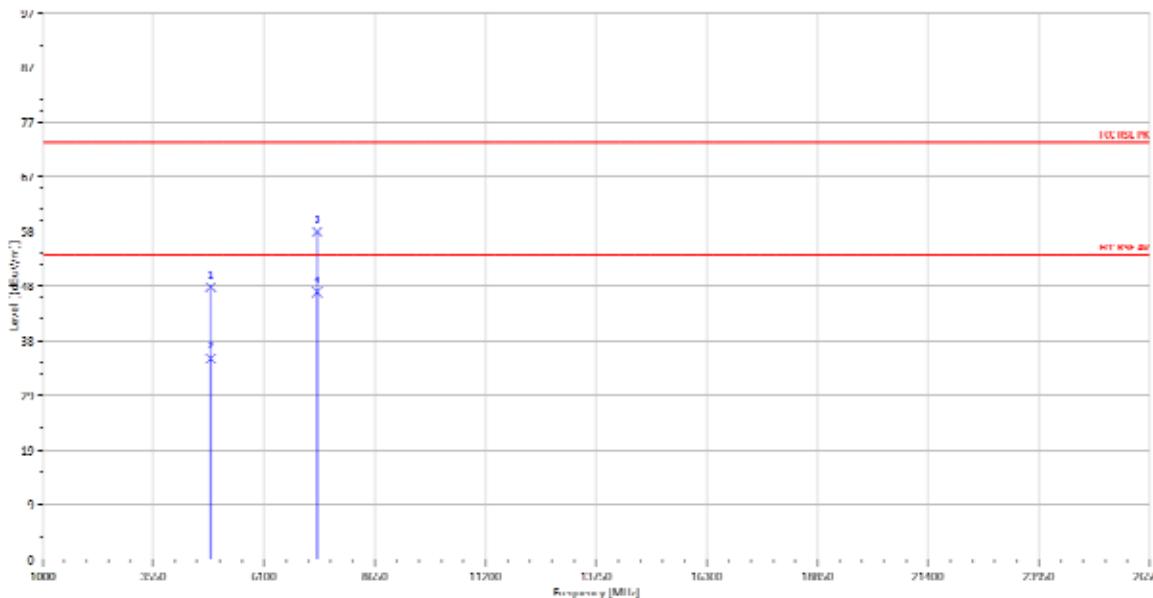
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Operation Band :BT4.0
 Fundamental Frequency :2440 MHz
 Operation Mode :TX MID
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :VERTICAL



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|--------------|--------------|------------------------------|------------------------------|--------------|
| | | | Level dB μ V | Factor dB | | | | |
| 4880.00 | Peak | H | 37.37 | 10.90 | 48.27 | 74.00 | -25.73 | |
| 4880.00 | Average | H | 24.72 | 10.90 | 35.62 | 54.00 | -18.38 | |
| 7320.00 | Peak | H | 42.71 | 15.36 | 58.07 | 74.00 | -15.93 | |
| 7320.00 | Average | H | 32.05 | 15.36 | 47.41 | 54.00 | -6.59 | |

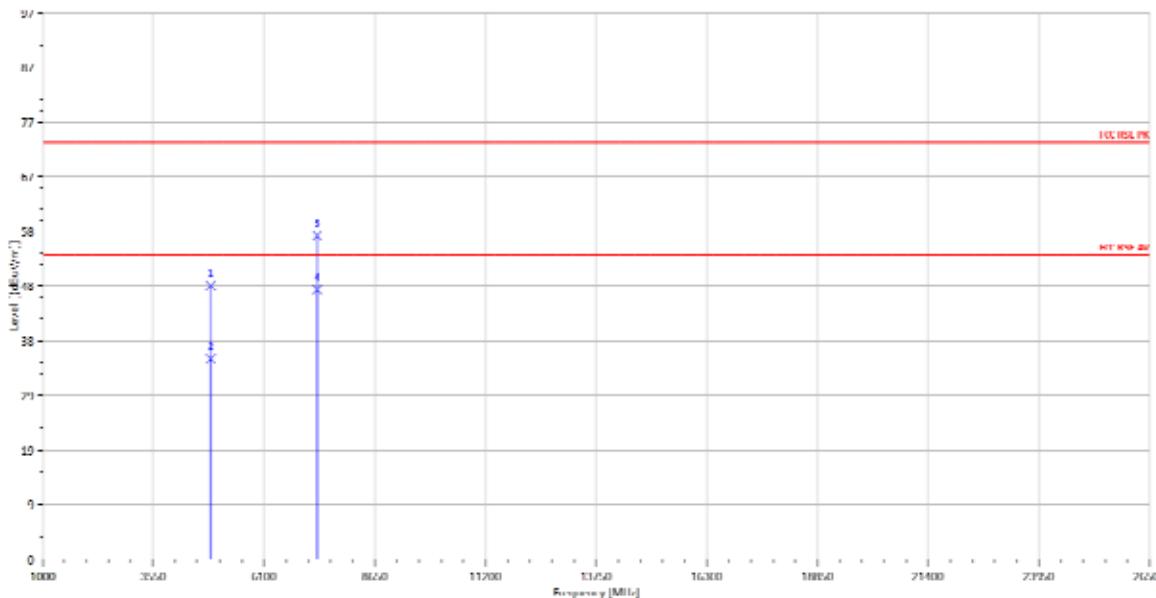
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Operation Band :BT4.0
 Fundamental Frequency :2440 MHz
 Operation Mode :TX MID
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :HORIZONTAL



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dBµV/m | Limit @3m dBµV/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|---------------|--------------|------------------------|------------------------|--------------|
| | | | Reading | Level dBµV | | | | |
| 4880.00 | Peak | H | 37.64 | 10.90 | 48.54 | 74.00 | -25.46 | |
| 4880.00 | Average | H | 24.66 | 10.90 | 35.56 | 54.00 | -18.44 | |
| 7320.00 | Peak | H | 42.04 | 15.36 | 57.40 | 74.00 | -16.60 | |
| 7320.00 | Average | H | 32.46 | 15.36 | 47.82 | 54.00 | -6.18 | |

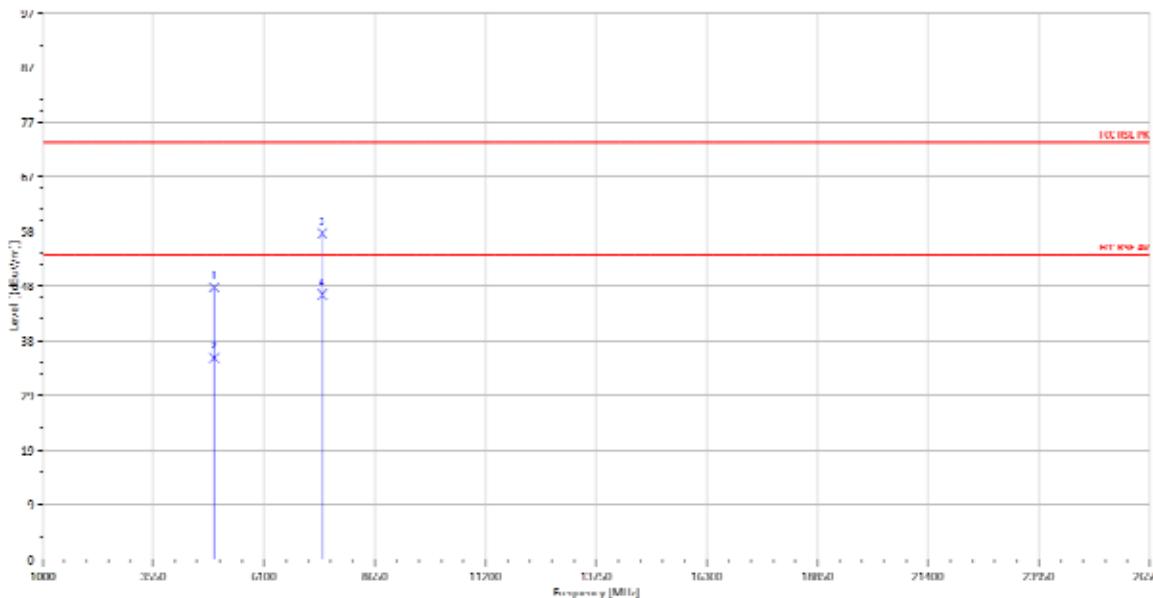
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Operation Band :BT4.0
 Fundamental Frequency :2480 MHz
 Operation Mode :TX HIGH
 EUT Pol. :E1 Plane

Test Date :2015-03-30
 Temp./Humi. :24 deg_C /59 RH
 Engineer :Vito
 Measurement Antenna Pol. :VERTICAL



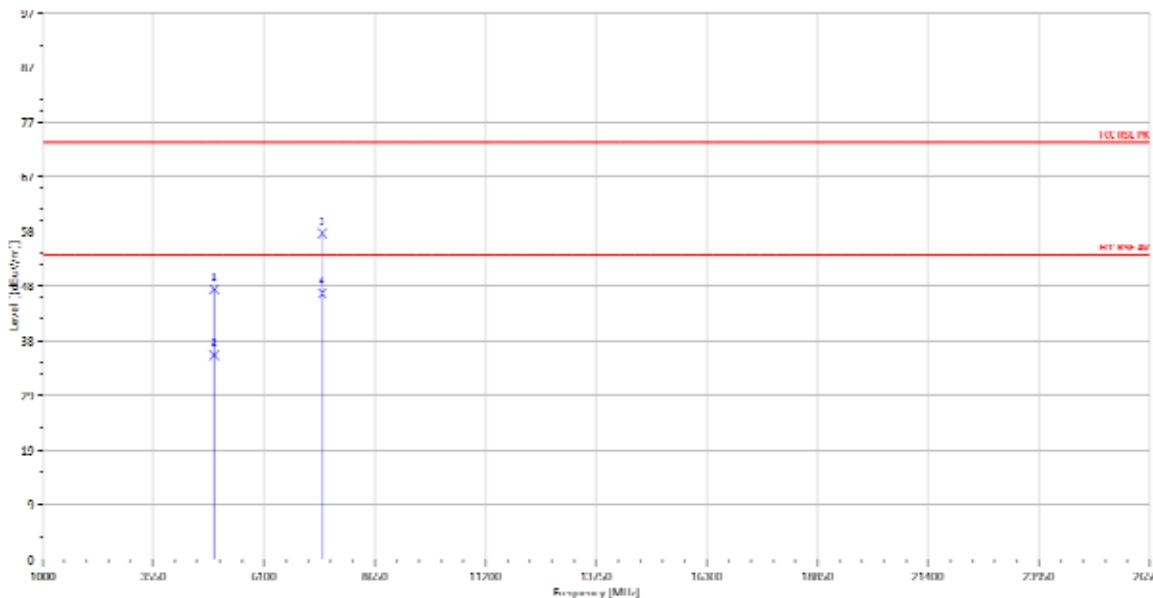
| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|-------|--------------|------------------------------|------------------------------|--------------|
| | | | | | | | | |
| 4960.00 | Peak | H | 37.21 | 10.99 | 48.20 | 74.00 | -25.80 | |
| 4960.00 | Average | H | 24.76 | 10.99 | 35.75 | 54.00 | -18.25 | |
| 7440.00 | Peak | H | 42.14 | 15.67 | 57.81 | 74.00 | -16.19 | |
| 7440.00 | Average | H | 31.28 | 15.67 | 46.95 | 54.00 | -7.05 | |

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| | | | |
|-----------------------|-----------|--------------------------|------------------|
| Operation Band | :BT4.0 | Test Date | :2015-03-30 |
| Fundamental Frequency | :2480 MHz | Temp./Humi. | :24 deg_C /59 RH |
| Operation Mode | :TX HIGH | Engineer | :Vito |
| EUT Pol. | :E1 Plane | Measurement Antenna Pol. | :HORIZONTAL |



| Freq. MHz | Detector Mode PK/QP/AV | Note F/H/E/S | Spectrum Reading Level | | Factor dB | Actual FS dB μ V/m | Limit @3m dB μ V/m | Margin dB |
|--------------|------------------------------|-----------------|---------------------------|------------|--------------|------------------------------|------------------------------|--------------|
| | | | | dB μ V | | | | |
| 4960.00 | Peak | H | 36.89 | 10.99 | 47.88 | 74.00 | -26.12 | |
| 4960.00 | Average | H | 25.24 | 10.99 | 36.23 | 54.00 | -17.77 | |
| 7440.00 | Peak | H | 42.15 | 15.67 | 57.82 | 74.00 | -16.18 | |
| 7440.00 | Average | H | 31.51 | 15.67 | 47.18 | 54.00 | -6.82 | |

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11 PEAK POWER SPECTRAL DENSITY

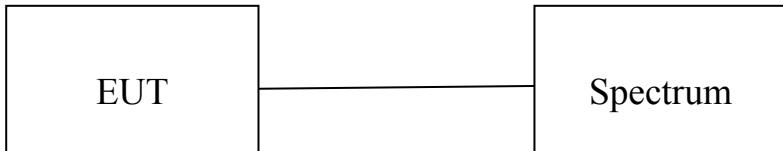
11.1 Standard Applicable:

The power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8dBm in any 3 kHz band during any time interval of continuous transmission.

11.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | |
|------------------------------|-----------|--------------|---------------|------------|------------|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. |
| Spectrum Analyzer | Agilent | N9010A | MY53400256 | 10/15/2014 | 10/14/2015 |
| DC Block | PASTERNAK | PE8210 | RF29 | 12/19/2014 | 12/18/2015 |
| Attenuator | WOKEN | 218FS-10 | RF23 | 12/19/2014 | 12/18/2015 |

11.3 Test Set-up:



11.4 Measurement Procedure:

1. Set analyzer center frequency to DTS channel center frequency.
2. The testing follows the Measurement Procedure of FCC KDB 558074 D01 DTS Meas. Guidance V03r02.
2. Set the span to 1.5 times the DTS channel bandwidth.
3. Set the RBW \geq 3 kHz.
4. Set the VBW \geq 3 x RBW.
5. Detector = peak.
6. Sweep time = auto couple.
7. Trace mode = max hold.
8. Allow trace to fully stabilize.
9. Use the peak marker function to determine the maximum amplitude level.
10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

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11.5 Measurement Result:

BT4.0 mode

| Frequency MHz | RF Power Density (dBm) | Limit (dBm) | Result |
|------------------|---------------------------|----------------|--------|
| 2402 | -14.16 | 8 | PASS |
| 2440 | -14.24 | 8 | PASS |
| 2480 | -14.34 | 8 | PASS |

Note: Refer to next page for plots.

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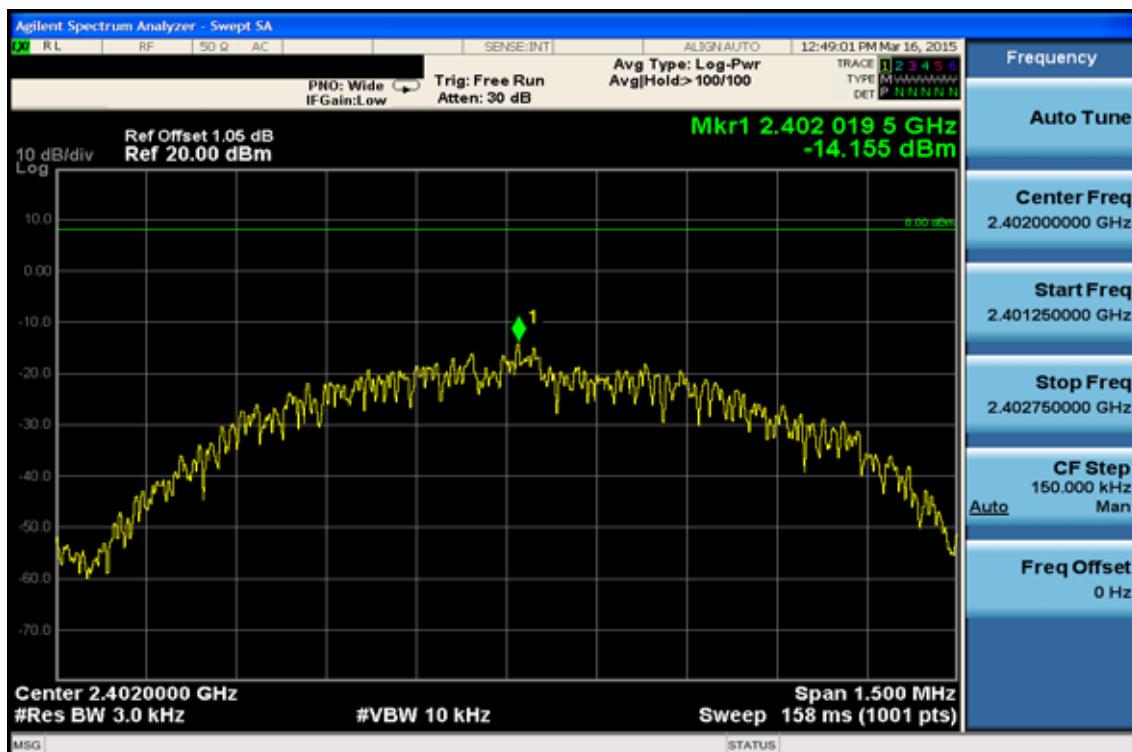
f (886-2) 2298-0488

www.tw.sgs.com

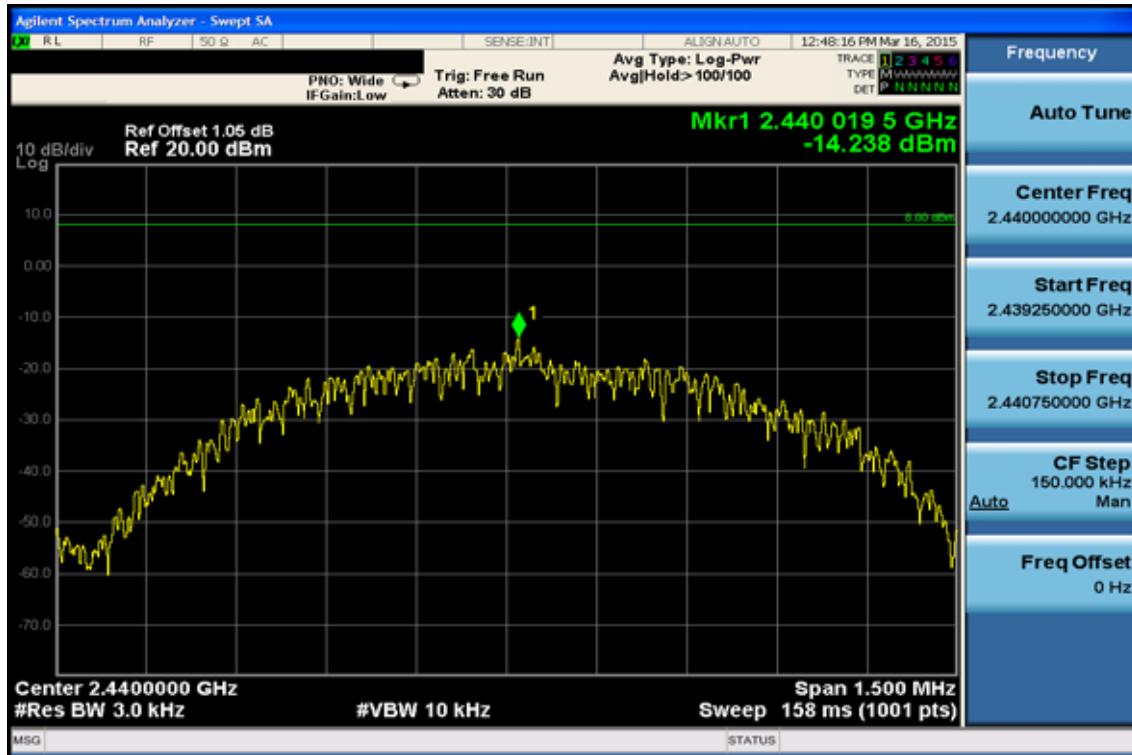
Member of SGS Group

BT4.0 mode

Power Spectral Density Test Plot (CH-Low)



Power Spectral Density Test Plot (CH-Mid)



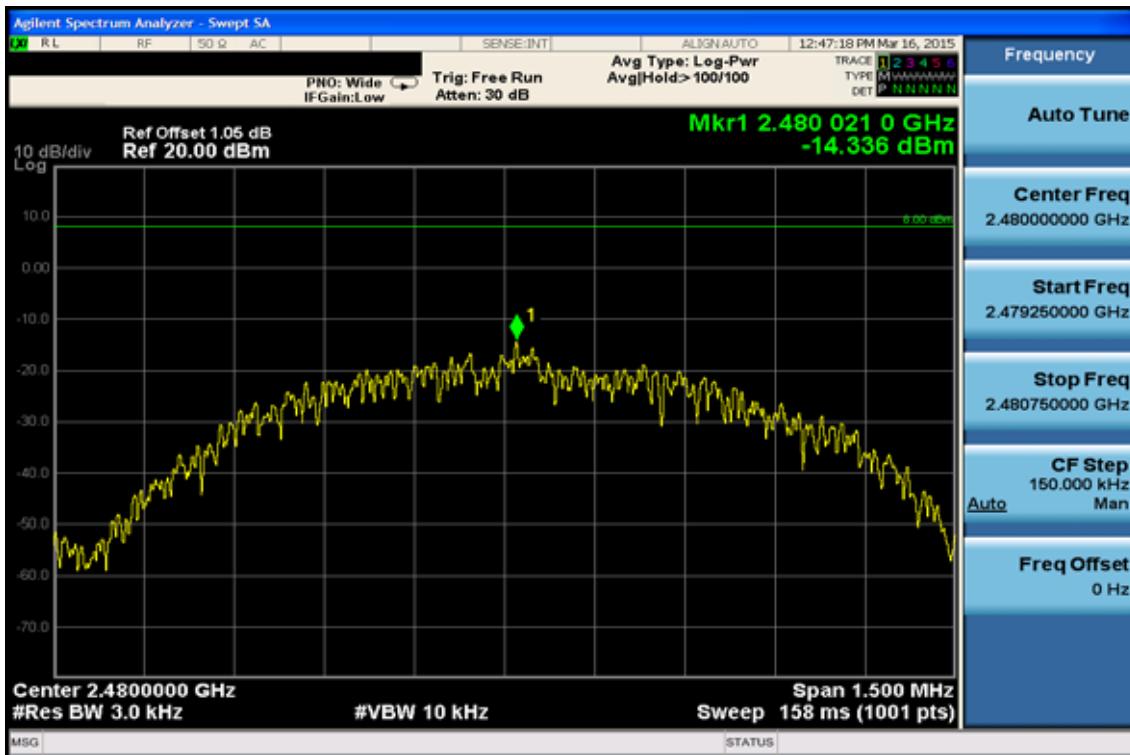
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Power Spectral Density Test Plot (CH-High)



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12 ANTENNA REQUIREMENT

12.1 Standard Applicable:

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

If the transmitting antenna is greater than 6dBi, the power shall be reduced by the same level in dB comparing to gain minus 6dBi.

In case of point-to-point operation, the power shall be reduced by the one dB for every 3 dB that the directional gain of antenna exceeds 6dBi.

12.2 Antenna Connected Construction:

An embedded-in antenna design is used.

The antenna connector is designed with unique type RF connector and no consideration of replacement.

Please see EUT photo and antenna spec. for details.

The antenna gain is less than 6dBi. Therefore, it is not necessary to reduce maximum output power limit.

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13 RF EXPOSURE

13.1 Standard Applicable

According to §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

This is a Portable device with its physical nature to be used nearby, the distance between radiating structure and human is less than 20cm.

As per KDB 447498 D01 \$4.3.1, The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$

*f (GHz) is the RF channel transmit frequency in GHz
Power and distance are rounded to the nearest mW and mm before calculation*

13.2 Measurement Result

Step 1: (<50 mW)

This is a portable device and the Max Average output power is (0.60mW) lower than the threshold given and derived as formula given above, where

$$=0.60 \text{ (mW)} / 5 \text{ (mm)} * \sqrt{2.402 \text{ (GHz)}} = 0.19 < 3.0$$

| Frequency | Power (avg in dBm) | Power (avg mw) | Distance (mm) | Threshold (<50mm) |
|-----------|--------------------|----------------|---------------|-------------------|
| 2402 | -2.22 | 0.599791076 | 5 | 0.185915885 |

| Frequency (MHz) | Reading Power (dBm) | Output Power (W) | Limit (W) |
|-----------------|---------------------|------------------|------------------------|
| 2442 | -2.51 | 0.0060 | 1 Watt = 30 dBm |

As the result of calculation result indicates, the RF exposure generating from given transmitter (transmitter employed digital modulation) can be excluded from SAR measurement, and is deemed compliant with RF exposure as per FCC.

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The table of quick reference in terms of power threshold

SAR Test Exclusion Thresholds for 100 MHz – 6 GHz and ≤ 50 mm

Approximate SAR Test Exclusion Power Thresholds at Selected Frequencies and Test Separation Distances are illustrated in the following Table.

| MHz | 5 | 10 | 15 | 20 | 25 | mm |
|------|----|----|-----|-----|-----|-----------------------------------|
| 150 | 39 | 77 | 116 | 155 | 194 | SAR Test Exclusion Threshold (mW) |
| 300 | 27 | 55 | 82 | 110 | 137 | |
| 450 | 22 | 45 | 67 | 89 | 112 | |
| 835 | 16 | 33 | 49 | 66 | 82 | |
| 900 | 16 | 32 | 47 | 63 | 79 | |
| 1500 | 12 | 24 | 37 | 49 | 61 | |
| 1900 | 11 | 22 | 33 | 44 | 54 | |
| 2450 | 10 | 19 | 29 | 38 | 48 | |
| 3600 | 8 | 16 | 24 | 32 | 40 | |
| 5200 | 7 | 13 | 20 | 26 | 33 | |
| 5400 | 6 | 13 | 19 | 26 | 32 | |
| 5800 | 6 | 12 | 19 | 25 | 31 | |

Note that the table present above is the table of quick reference, indexing the level of power threshold with respect to the corresponding frequency. The value of the index may be deviated, and therefore, the derivation of exemption based on KDB447498 D01 is used in this test report, relevantly.

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