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|--|--|--|-------------------|--|
| Prüfbericht-Nr.: <i>Test Report No.:</i> | 50080308 001 | Auftrags-Nr.: <i>Order No.:</i> | 154243386 | Seite 1 von 62 <i>Page 1 of 62</i> |
| Kunden-Referenz-Nr.: <i>Client Reference No.:</i> | 52195766 | Auftragsdatum: <i>Order date:</i> | 04.25.2017 | |
| Auftraggeber: <i>Client:</i> | Lightcomm Technology Co.,Ltd. RM 1808 18/F, FO TAN INDUSTRIAL CENTRE, NOS. 26-28 AU PUI WAN STREET, FO TAN SHATIN NEW TERRITORIES, HONGKONG | | | |
| Prüfgegenstand: <i>Test item:</i> | MID | | | |
| Bezeichnung / Typ-Nr.: <i>Identification / Type No.:</i> | MID8006-L, DL8006, DL80XXXXXX (x=0-9, A-Z, a-z, - or blank, for market purpose only, all models are identical except the model number, brand or color) FCC ID: XMF-MID8006L | | | |
| Auftrags-Inhalt: <i>Order content:</i> | Complete test | | | |
| Prüfgrundlage: <i>Test specification:</i> | FCC CFR47 Part 15, Subpart C Section 15.247 ANSI C63.10: 2013 | | | |
| Wareneingangsdatum: <i>Date of receipt:</i> | 04.01.2017 |  | | |
| Prüfmuster-Nr.: <i>Test sample No.:</i> | A000567056-003 | | | |
| Prüfzeitraum: <i>Testing period:</i> | 04.01.2017 to 07.04.2017 | | | |
| Ort der Prüfung: <i>Place of testing:</i> | MRT Technology(Suzhou) Co., Ltd. | | | |
| Prüflaboratorium: <i>Testing laboratory:</i> | TÜV Rheinland (Shanghai) Co., Ltd. | | | |
| Prüfergebnis*: <i>Test result*:</i> | Pass | | | |
| geprüft von / tested by: | | kontrolliert von / reviewed by: | | |
| 07.06.2017 Elliot Zhang / Assistant Project Manager <i>Datum Name / Stellung Unterschrift</i> <i>Date Name / Position Signature</i> | | 07.06.2017 Shi Li / Department Manager <i>Datum Name / Stellung Unterschrift</i> <i>Date Name / Position Signature</i> | | |
| Sonstiges / Other | | | | |
| Only evaluate the Bluetooth v3.0 function in this test report. FCC ID: XMF-MID8006L | | | | |
| 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 <i>Legend: 1 = very good 2 = good 3 = satisfactory 4 = sufficient 5 = poor</i> P(ass) = passed a.m. test specification(s) F(ail) = failed a.m. test specification(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

5.1.1 ANTENNA REQUIREMENT*RESULT: Pass***5.1.2 PEAK OUTPUT POWER***RESULT: Pass***5.1.3 20DB BANDWIDTH***RESULT: Pass***5.1.4 CONDUCTED SPURIOUS EMISSIONS***RESULT: Pass***5.1.5 FREQUENCY SEPARATION***RESULT: Pass***5.1.6 NUMBER OF HOPPING FREQUENCY***RESULT: Pass***5.1.7 TIME OF OCCUPANCY***RESULT: Pass***5.2.1 CONDUCTED EMISSION***RESULT: Pass***5.3.1 RADIATED SPURIOUS EMISSION***RESULT: Pass*

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1. General Remarks

1.1 Complementary Materials

Null.

2. Test Sites

2.1 Test Facilities

MRT Technology (Suzhou) Co., Ltd.

D8 Building, Youxin Industrial Park, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China

The used test equipment is in accordance with CISPR 16 for measurement of radio interference.

The Federal Communications Commission has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance with the requirements of section 2.948 of the FCC rules. The description of the test facility is listed under FCC registration number 809388.

The Industry Canada has reviewed the technical characteristics of the radiated and conducted emission facility, and has found these test facilities to be in compliance. The description of the test facility is listed under chambers filing number 11384A.

2.2 List of Test and Measurement Instruments

Table 1: List of Test and Measurement Equipment
Conducted Emissions

| Instrument | Manufacturer | Type No. | Serial No. | Cali. Interval | Cali. Due Date |
|-----------------------------|---------------------|-----------------|-------------------|-----------------------|-----------------------|
| EMI Test Receiver | R&S | ESR7 | MRTSUE06001 | 1 year | 2017/06/20 |
| EMI Test Receiver | R&S | ESR7 | MRTSUE06001 | 1 year | 2018/06/20 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06002 | 1 year | 2017/06/20 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06002 | 1 year | 2018/06/20 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06003 | 1 year | 2017/06/20 |
| Two-Line V-Network | R&S | ENV216 | MRTSUE06003 | 1 year | 2018/06/20 |
| Temperature/ Meter Humidity | Ouleinuo | N/A | MRTSUE06114 | 1 year | 2017/12/20 |

Radiated Emission

| | | | | | |
|----------------------------|-------------|-----------|-------------|--------|------------|
| Spectrum Analyzer | Agilent | E4447A | MRTSUE06028 | 1 year | 2017/12/08 |
| EMI Test Receiver | R&S | ESR7 | MRTSUE06001 | 1 year | 2017/11/03 |
| Preamplifier | Agilent | 83017A | MRTSUE06020 | 1 year | 2018/03/29 |
| Preamplifier | Schwarzbeck | BBV9721 | MRTSUE06121 | 1 year | 2018/04/16 |
| Loop Antenna | Schwarzbeck | FMZB1519 | MRTSUE06025 | 1 year | 2017/11/07 |
| TRILOG Antenna | Schwarzbeck | VULB9162 | MRTSUE06022 | 1 year | 2017/11/07 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9120D | MRTSUE06023 | 1 year | 2017/11/07 |
| Broadband Horn Antenna | Schwarzbeck | BBHA9170 | MRTSUE06024 | 1 year | 2018/01/05 |
| Temperature/Humidity Meter | Ouleinuo | N/A | MRTSUE06115 | 1 year | 2017/11/20 |

Conducted Test Equipment

| | | | | | |
|----------------------------|----------|--------|-------------|--------|------------|
| Spectrum Analyzer | Agilent | N9020A | MRTSUE06106 | 1 year | 2018/05/08 |
| USB Wideband Power Sensor | Boonton | 55006 | MRTSUE06109 | 1 year | 2018/05/08 |
| Temperature/Humidity Meter | Ouleinuo | N/A | MRTSUE06114 | 1 year | 2017/11/20 |

2.3 Traceability

All measurement equipment calibrations are traceable to NIST or where calibration is performed outside the United States, 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

Table 2: Measurement Uncertainty

| Measurement Type | Frequency | Uncertainty |
|---------------------------------|--------------|-------------|
| Antenna Port Conducted Emission | < 1GHz | ±0.39dB |
| | > 1GHz | ±0.68dB |
| Radiated Emission | 30MHz - 1GHz | ±4.18dB |
| | > 1GHz | ±4.76dB |

3. General Product Information

3.1 Product Function and Intended Use

The EUT (Equipment Under Test) is a 'Tablet PC' device. It supports Bluetooth 4.0 (Dual mode) & 2.4GHz Wi-Fi 802.11 b/g/n(HT20)/n(HT40) & 5GHz Wi-Fi 802.11 a wireless technology.

The 2.4GHz WIFI, 5GHz WIFI and Bluetooth can TX simultaneously

For details refer to the User Manual and Circuit Diagram.

3.2 Ratings and System Details

Table 3: Technical Specification of EUT

| General Description of EUT | |
|----------------------------|---|
| Product Name: | MID |
| Brand Name: | digiland |
| Model No.: | MID8006-L, DL8006, DL80XXXXXX(x=0-9, A-Z, a-z, - or blank, for market purpose only, all models are identical except the model number, brand or color) |
| Rated Voltage: | DC 3.7V 6000mAh via internal rechargeable Li-Poly battery DC 5.0V 2.5A via AC/DC adapter for charging |
| Type of Product: | Tablet PC |
| Bluetooth Classical | |
| Frequency Range: | 2402 ~ 2480MHz |
| Channel Separation | 1MHz |
| Modulation Type: | GFSK, $\pi/4$ DQPSK, 8DPSK |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1.28 dBi |
| Bluetooth Low Energy | |
| Frequency Range: | 2402 ~ 2480MHz |
| Channel Separation | 2MHz |
| Modulation Type: | GFSK |
| Antenna Type: | PIFA Antenna |
| Antenna Gain: | 1.28 dBi |

3.3 Independent Operation Modes

| Test Mode | Data Rate | Channel |
|-----------|-----------|---------|
| TM1 | 1-DH5 | 00 |
| TM2 | 1-DH5 | 39 |
| TM3 | 1-DH5 | 78 |
| TM4 | 2-DH5 | 00 |
| TM5 | 2-DH5 | 39 |
| TM6 | 2-DH5 | 78 |
| TM7 | 3-DH5 | 00 |
| TM8 | 3-DH5 | 39 |
| TM9 | 3-DH5 | 78 |
| TM10 | 1-DH5 | Hopping |
| TM11 | 2-DH5 | Hopping |
| TM12 | 3-DH5 | Hopping |
| TM13 | 3-DH3 | Hopping |
| TM14 | 3-DH1 | Hopping |

3.4 Noise Generating and Noise Suppressing Parts

Refer to the Circuit Diagram.

3.5 Submitted Documents

- Application Form
- Circuit Diagram
- ID Label and Location Info
- Photo Document
- Operation Description
- Block Diagram
- PCB Layout
- Model Difference Letter
- Schematics
- User Manual

4. Test Set-up and Operation Modes

4.1 Principle of Configuration Selection

The equipment under test (EUT) was configured to measure its maximum power level. The test modes were adapted accordingly in reference to the instructions for use.

4.2 Test Operation and Test Software

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

4.3 Special Accessories and Auxiliary Equipment

Null.

4.4 Countermeasures to achieve EMC Compliance

Null.

5. Test Results

5.1 Conducted Testing at Antenna Port

5.1.1 Antenna Requirement

RESULT:
Pass

According to the manufacturer declared, the EUT has one internal antenna, the directional gain of antenna is 1.28dBi and the antenna is designed with permanent attachment and no consideration of replacement. Therefore the EUT is considered sufficient to comply with the provision.

Table 4: Antenna Requirement

| FCC 15.203 – Antenna Requirement 1 | |
|------------------------------------|---|
| Requirement: | No antenna other than that furnished by the responsible party shall be used with the device |
| Results: | Antenna type: PIFA antenna |
| Verdict: | PASS |

| FCC 15.204 – Antenna Requirement 2 | |
|------------------------------------|--|
| Requirement: | An intentional radiator may be operated only with the antenna with which it is authorized. If an antenna is marketed with the intentional radiator, it shall be of a type which is authorized with the intentional radiator. |
| Results: | Only one integral antenna can be used |
| Verdict: | PASS |

5.1.2 Peak Output Power

RESULT:
Pass

Date of testing : 2017-04-01
 Test standard : FCC Part 15.247(b)(1)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC Part 15.247(b)(1)
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM9
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 5: Peak Output Power, TM1 to TM9

| Mode | Antenna Gain [dBi] | CH. | Freq. [MHz] | Maximum Peak Conducted Output Power [dBm] | Peak Conducted Output Power Limit [dBm] |
|------|--------------------|-----|-------------|---|---|
| TM1 | 1.28 | 00 | 2402 | 2.30 | 30 |
| TM2 | | 39 | 2441 | 2.08 | 30 |
| TM3 | | 78 | 2480 | 1.76 | 30 |
| TM4 | | 00 | 2402 | 2.04 | 30 |
| TM5 | | 39 | 2441 | 1.97 | 30 |
| TM6 | | 78 | 2480 | 1.56 | 30 |
| TM7 | | 00 | 2402 | 2.20 | 30 |
| TM8 | | 39 | 2441 | 2.11 | 30 |
| TM9 | | 78 | 2480 | 1.71 | 30 |

Note:

$$\text{EIRP} = \text{Peak Conducted Output Power} + \text{Antenna Gain}$$

5.1.3 20dB Bandwidth

RESULT:
Pass

Date of testing : 2017-04-02
 Test standard : FCC Part 15.247(a)(1)
 Test procedure : ANSI C63.10: 2013
 Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM9
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 6: 20dB Bandwidth, TM1 to TM9

| Mode | Frequency [MHz] | 20dB Bandwidth [kHz] |
|------|--------------------|-------------------------|
| TM1 | 2402 | 924.6 |
| TM2 | 2441 | 924.1 |
| TM3 | 2480 | 924.0 |
| TM4 | 2402 | 1254.0 |
| TM5 | 2441 | 1254.0 |
| TM6 | 2480 | 1281.0 |
| TM7 | 2402 | 1265.0 |
| TM8 | 2441 | 1267.0 |
| TM9 | 2480 | 1266.0 |

Note:

For frequency hopping systems operating in the 2400 – 2483.5MHz band, no bandwidth limit is specified. The test data is provide for reference.

And according to FCC, when the occupied bandwidth limit is not stated in the applicable FCC or reference measurement method, the transmitted signal band width shall be reported as the 99% emission bandwidth.

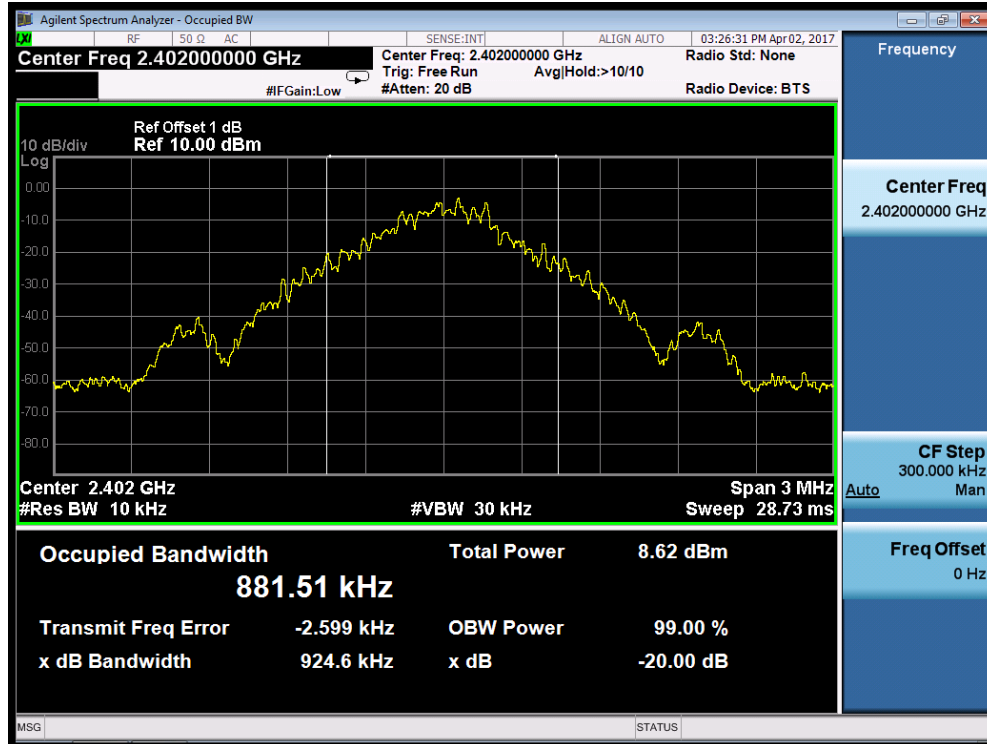
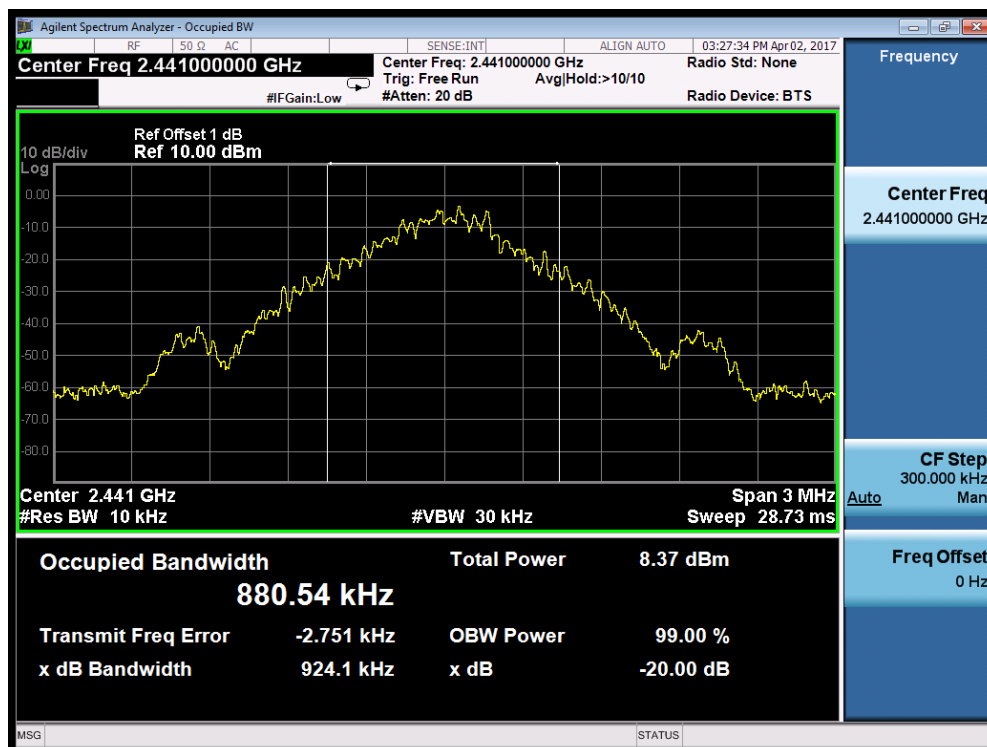
Figure 1: 20dB Bandwidth, TM1

Figure 2: 20dB Bandwidth, TM2


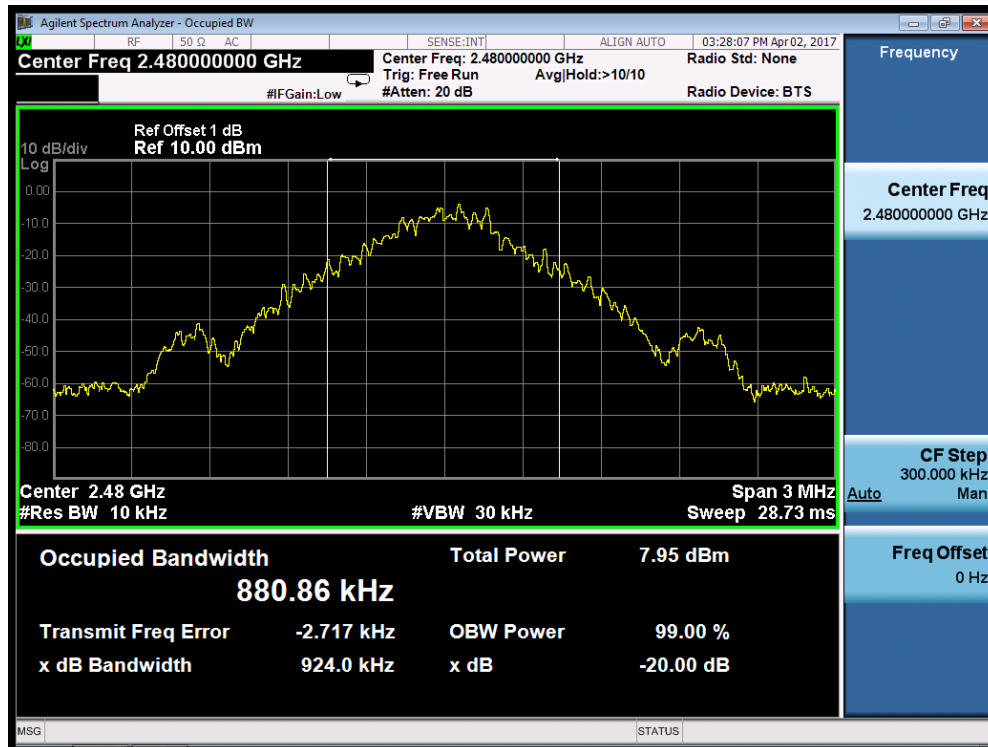
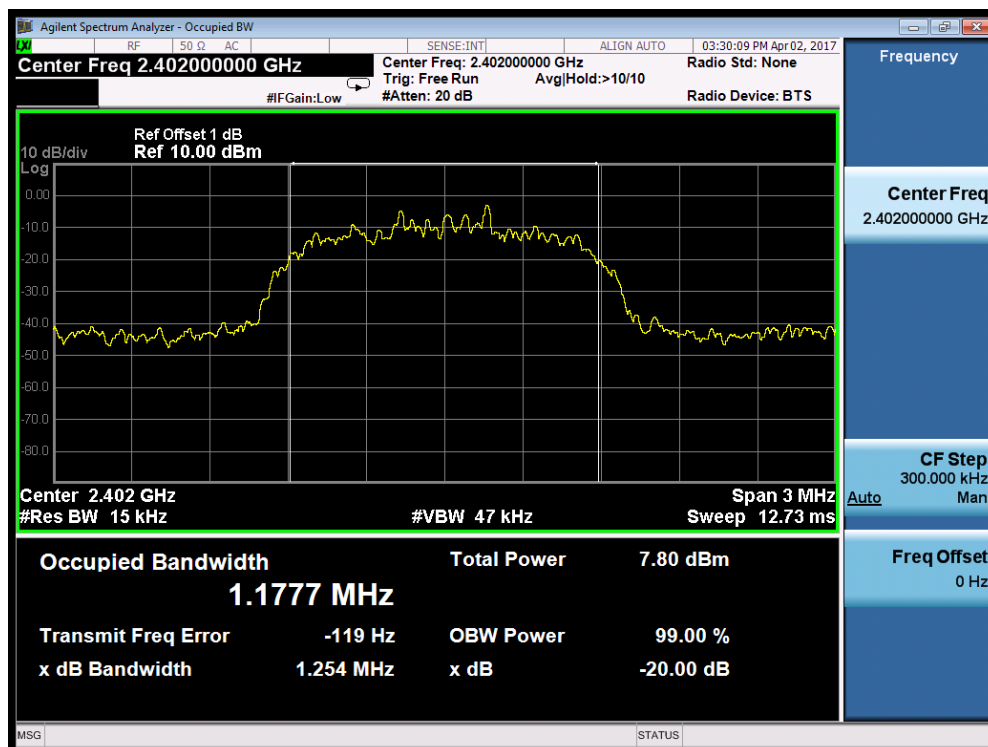
Figure 3: 20dB Bandwidth, TM3

Figure 4: 20dB Bandwidth, TM4


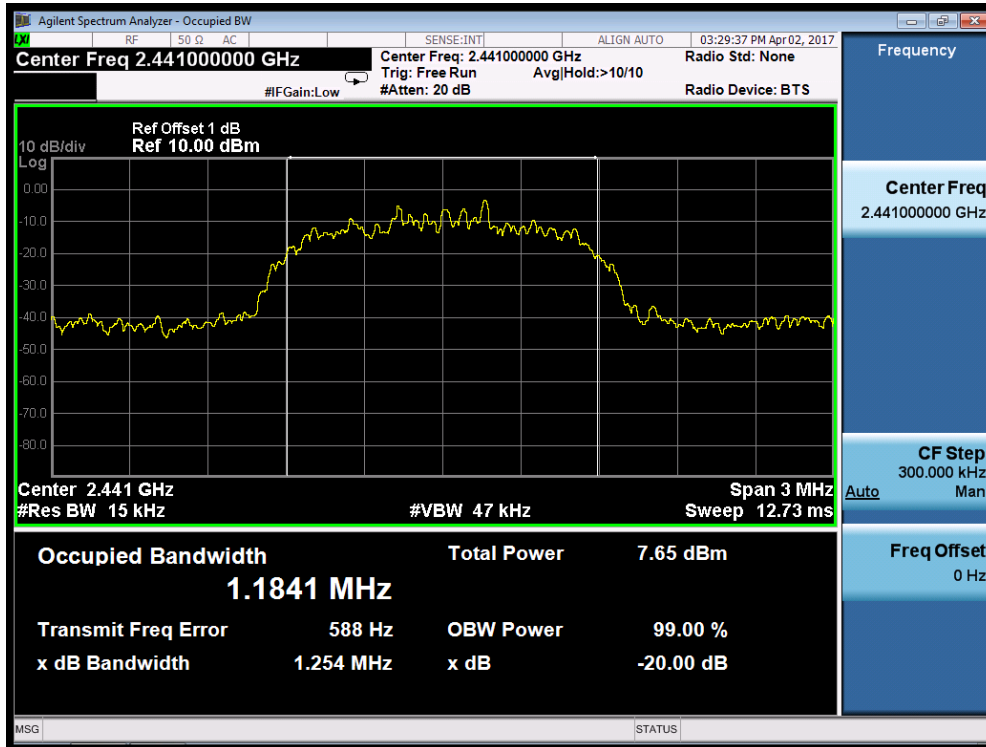
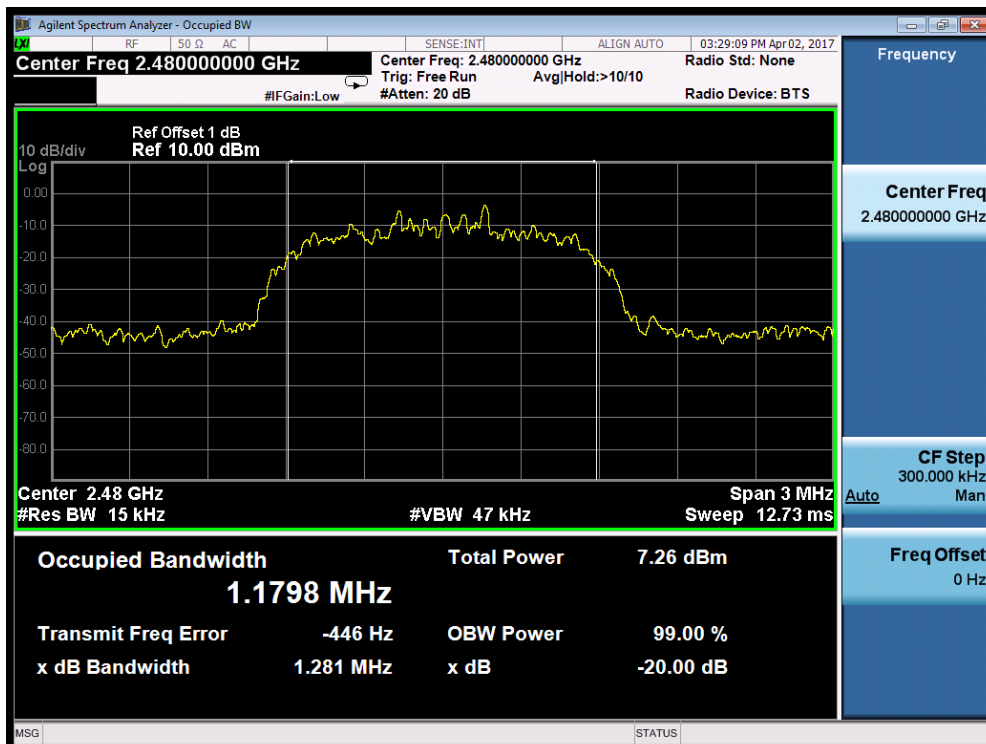
Figure 5: 20dB Bandwidth, TM5

Figure 6: 20dB Bandwidth, TM6


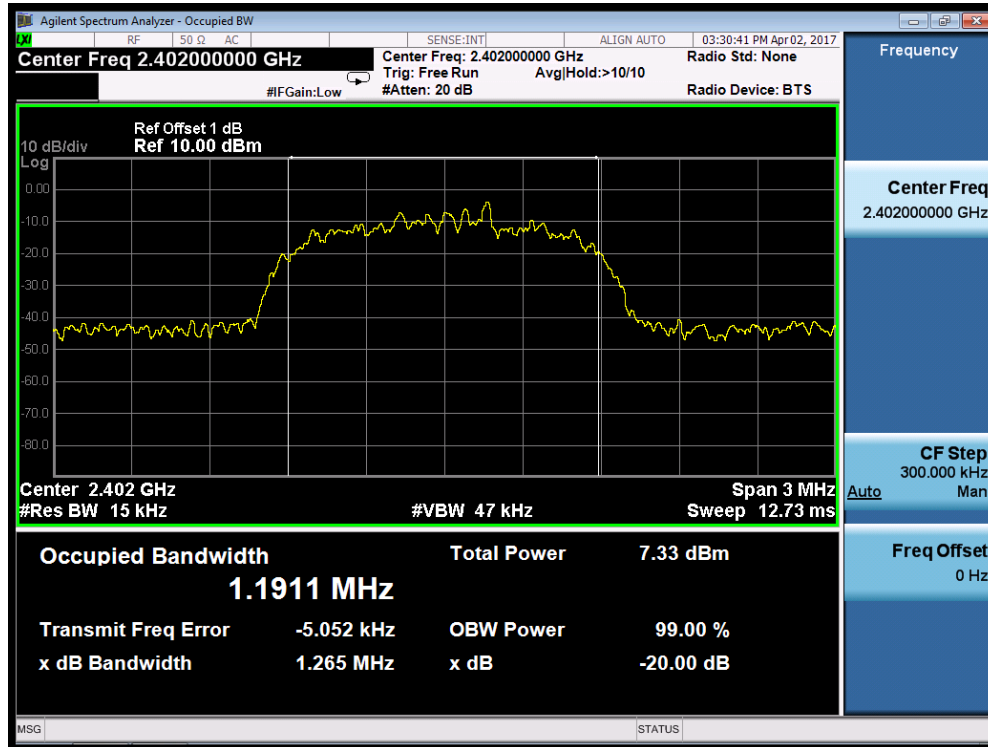
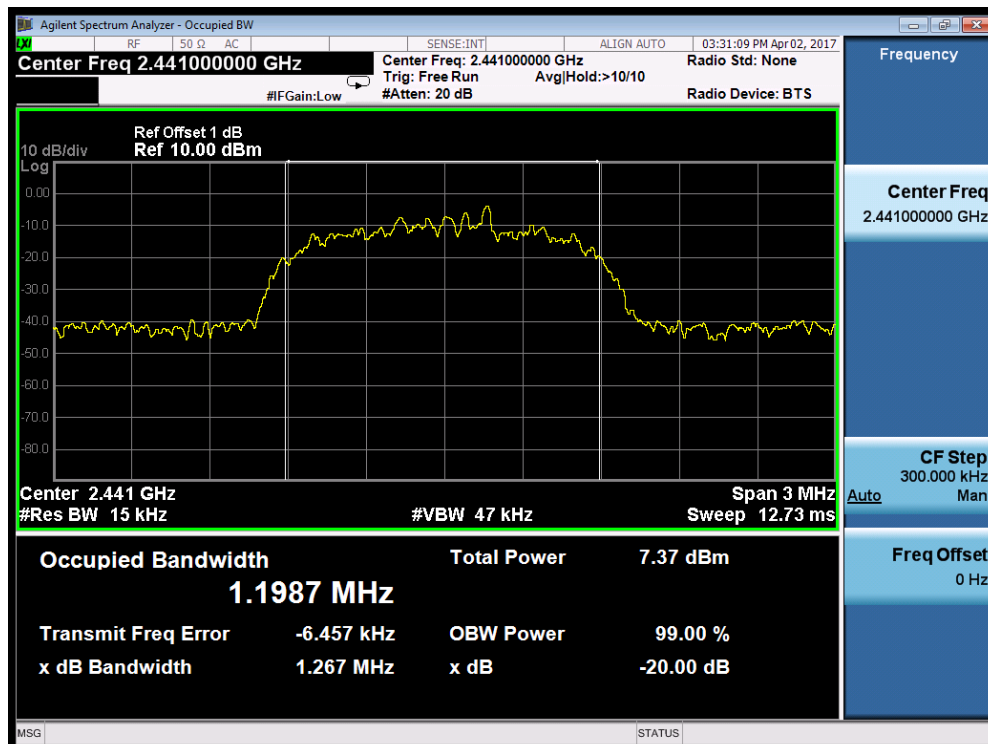
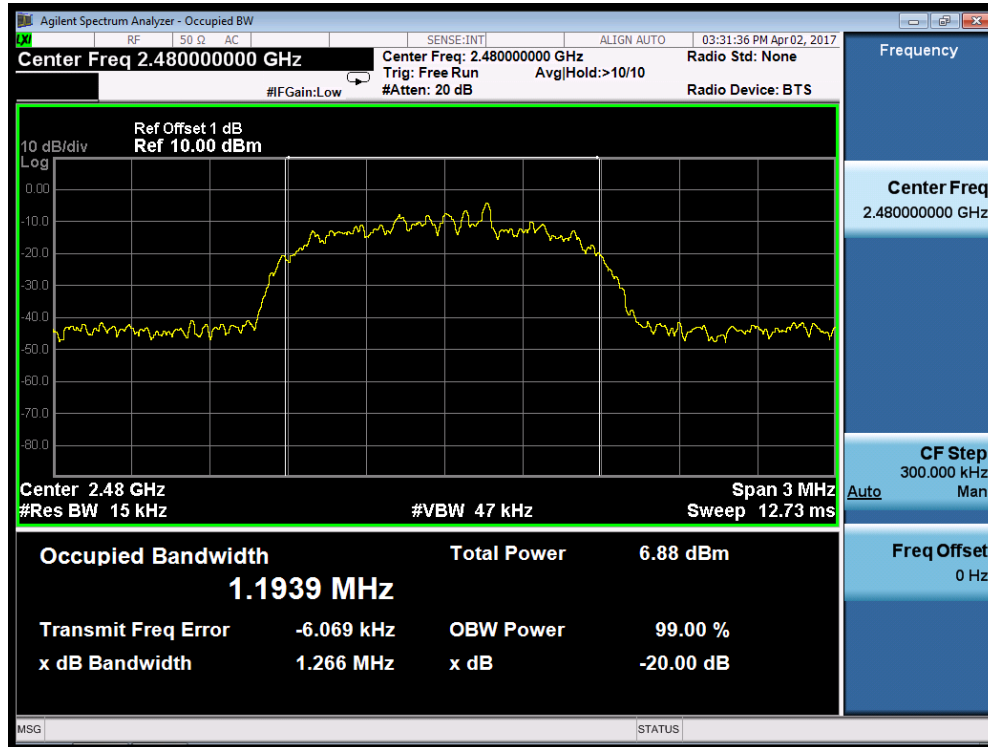
Figure 7: 20dB Bandwidth, TM7

Figure 8: 20dB Bandwidth, TM8


Figure 9: 20dB Bandwidth, TM9


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5.1.4 Conducted Spurious Emissions

RESULT:**Pass**

Date of testing : 2017-04-02
Test standard : FCC Part 15.247(d)
Test procedure : ANSI C63.10: 2013
Limit : FCC Part 15.247(d)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM1 to TM9
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

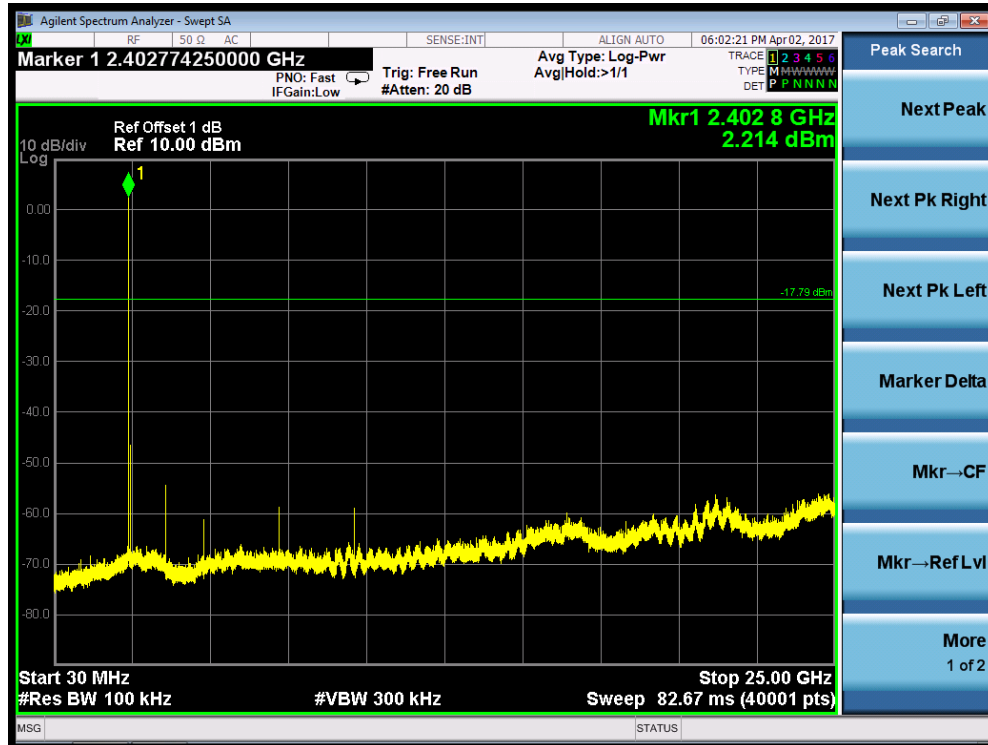
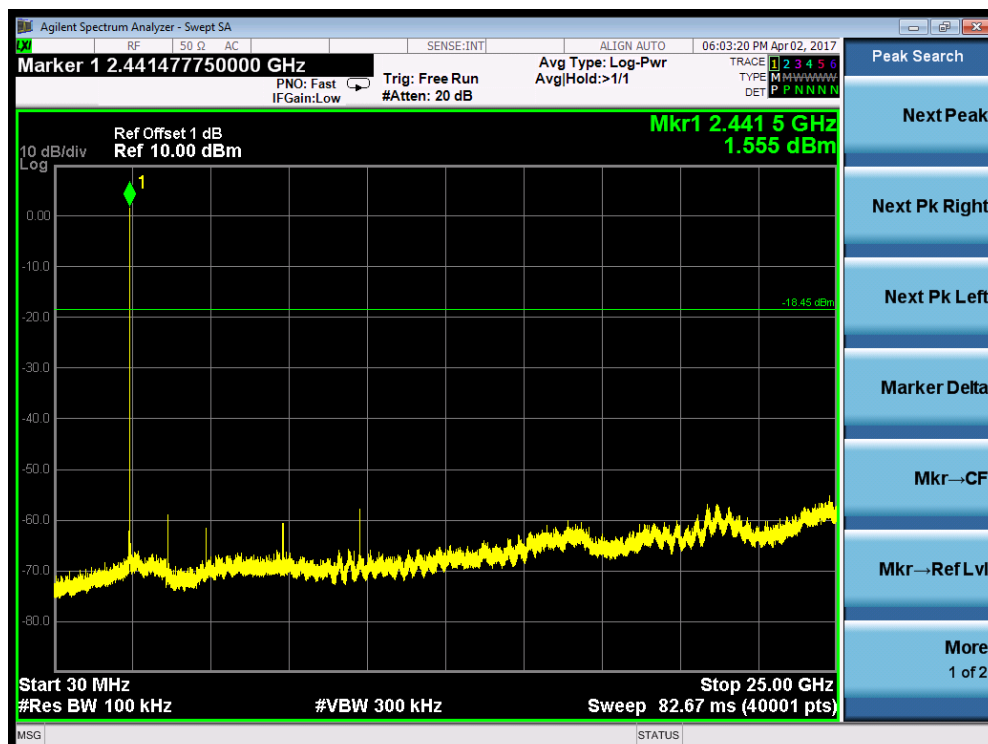
Figure 10: Conducted Spurious Emission, TM1

Figure 11: Conducted Spurious Emission, TM2


Figure 12: Conducted Spurious Emission, TM3

Figure 13: Conducted Spurious Emission, TM4


Figure 14: Conducted Spurious Emission, TM5

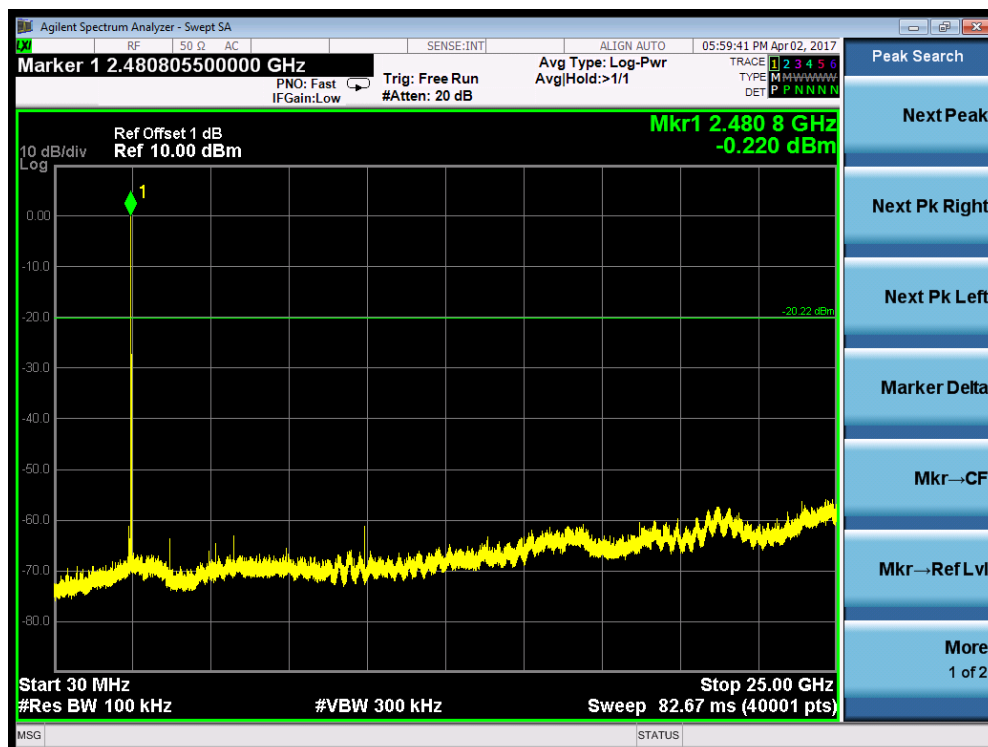
Figure 15: Conducted Spurious Emission, TM6


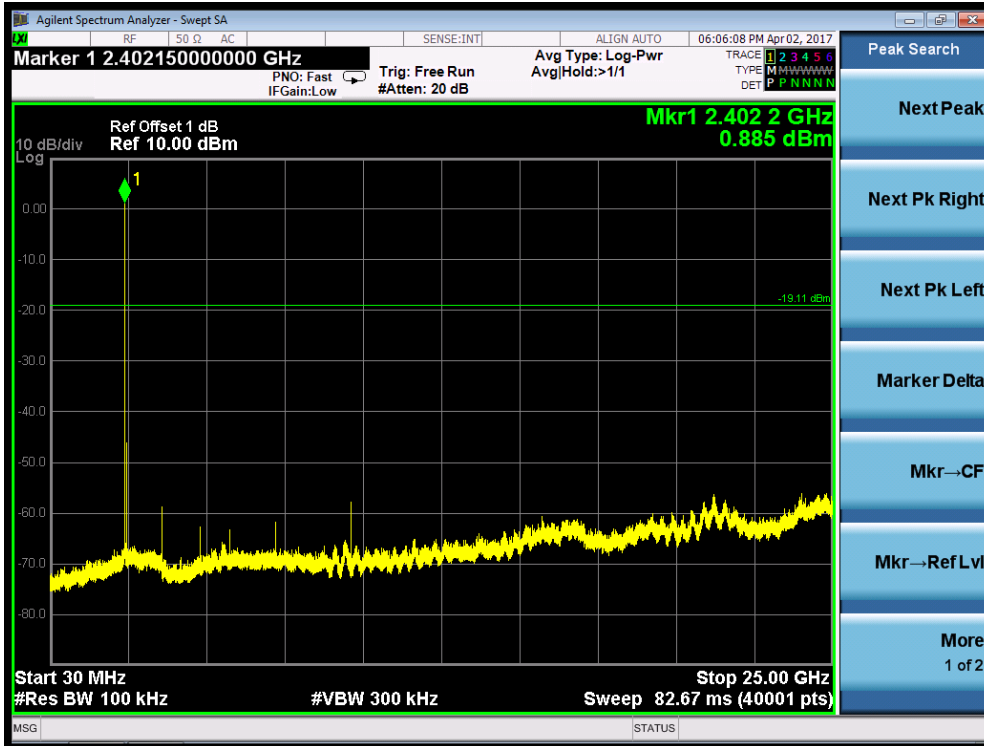
Figure 16: Conducted Spurious Emission, TM7

Figure 17: Conducted Spurious Emission, TM8

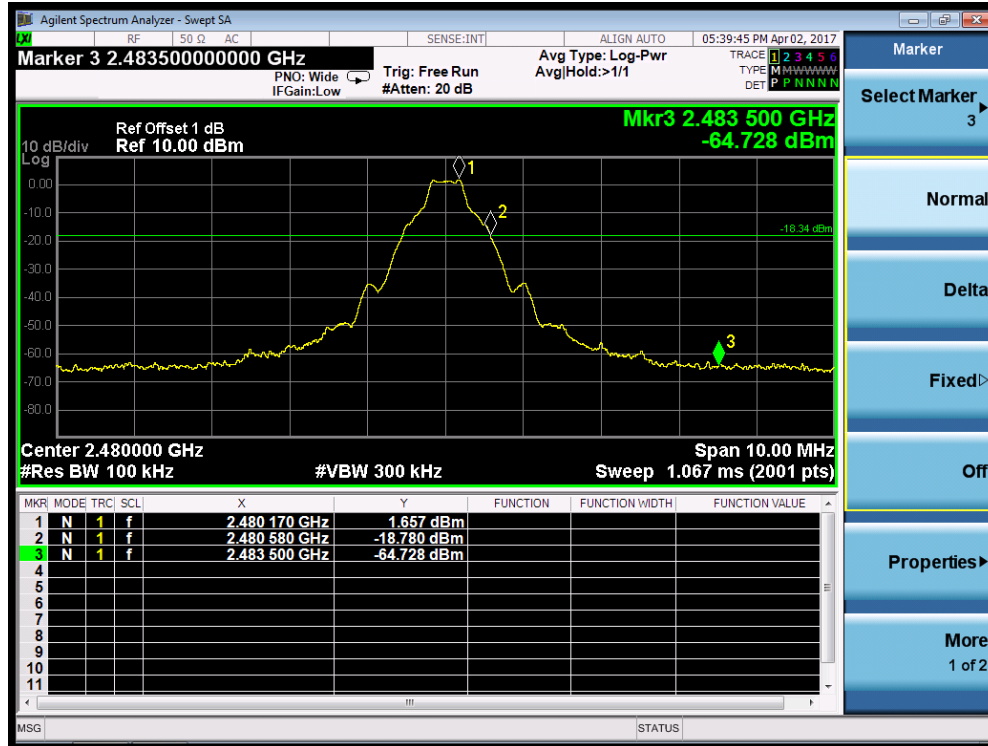
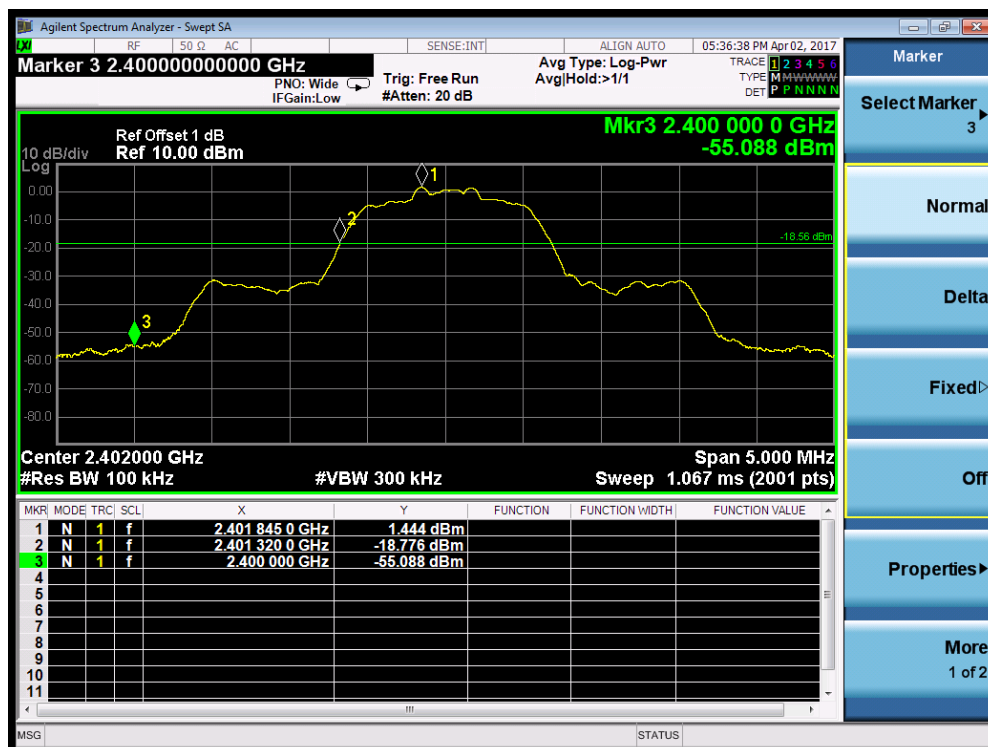
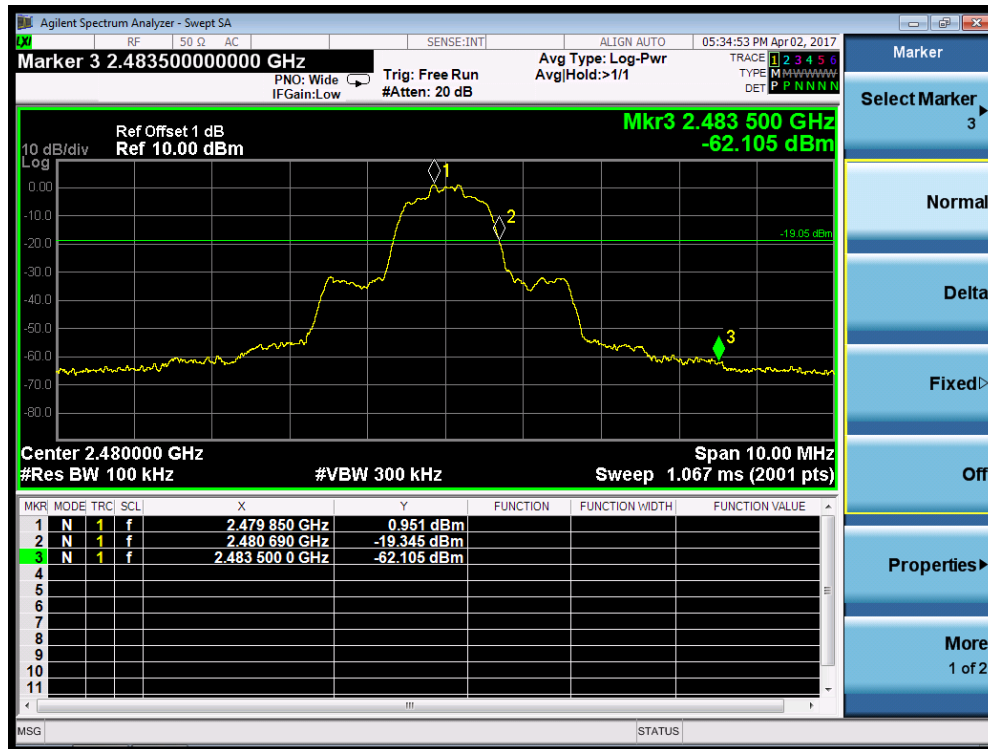
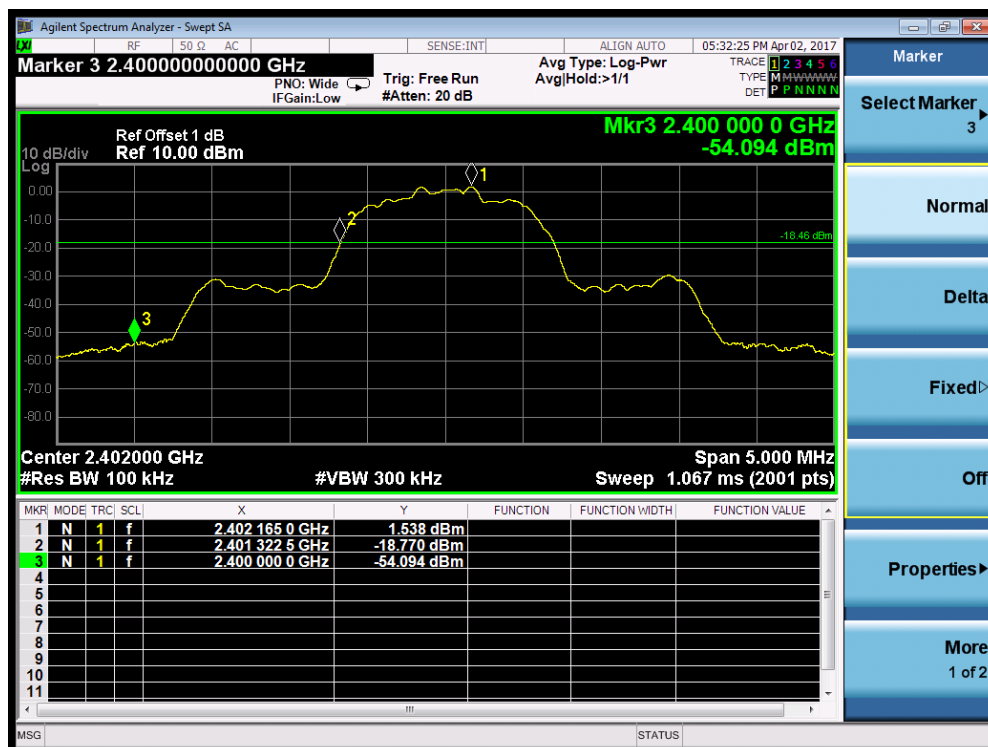

Figure 20: Band Edge, TM3

Figure 21: Band Edge, TM4


Figure 22: Band Edge, TM6

Figure 23: Band Edge, TM7


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5.1.5 Frequency Separation

RESULT:**Pass**

Date of testing : 2017-04-02
Test standard : FCC Part 15.247(a)(1)
Test procedure : ANSI C63.10: 2013
Limit : FCC Part 15.247(a)(1)
Kind of test site : Shielded room

Test setup

Test Channel : Low/ Middle/ High
Operation Mode : TM10 to TM12
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

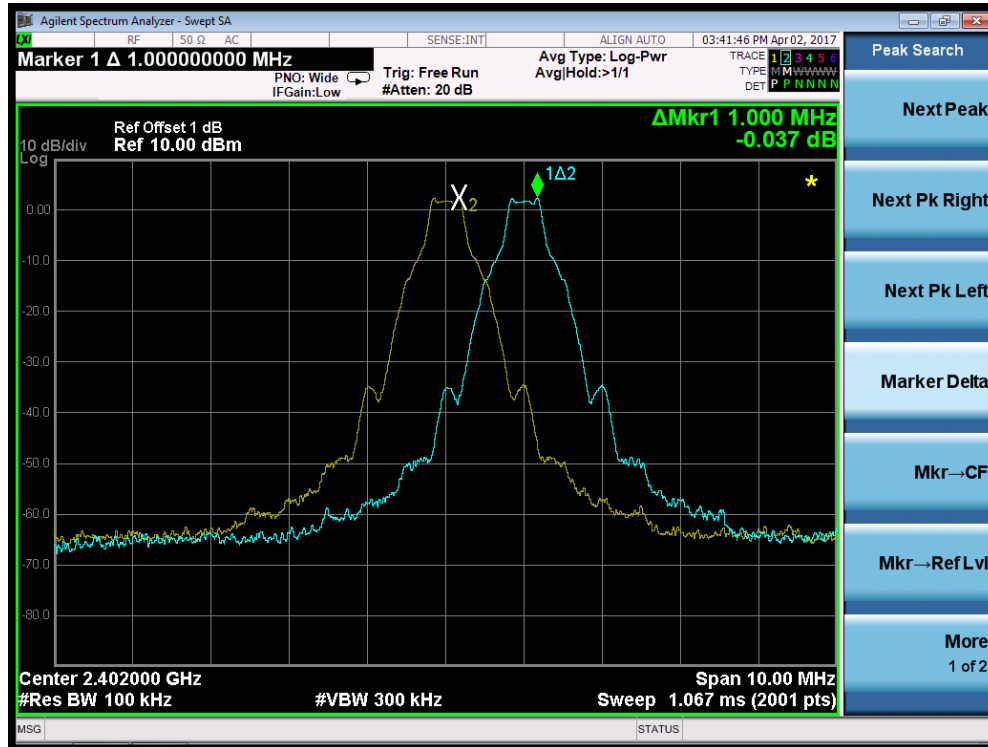
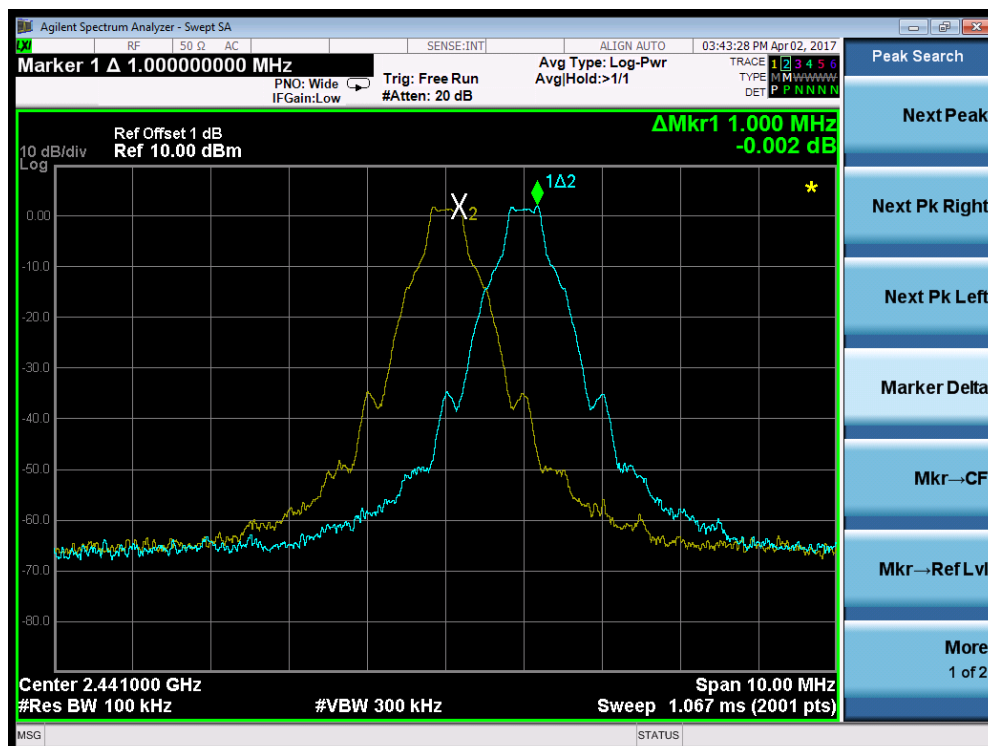
Figure 25: Frequency Separation, TM10, observation Frequency 2402MHz

Figure 26: Frequency Separation, TM10, observation Frequency 2441MHz


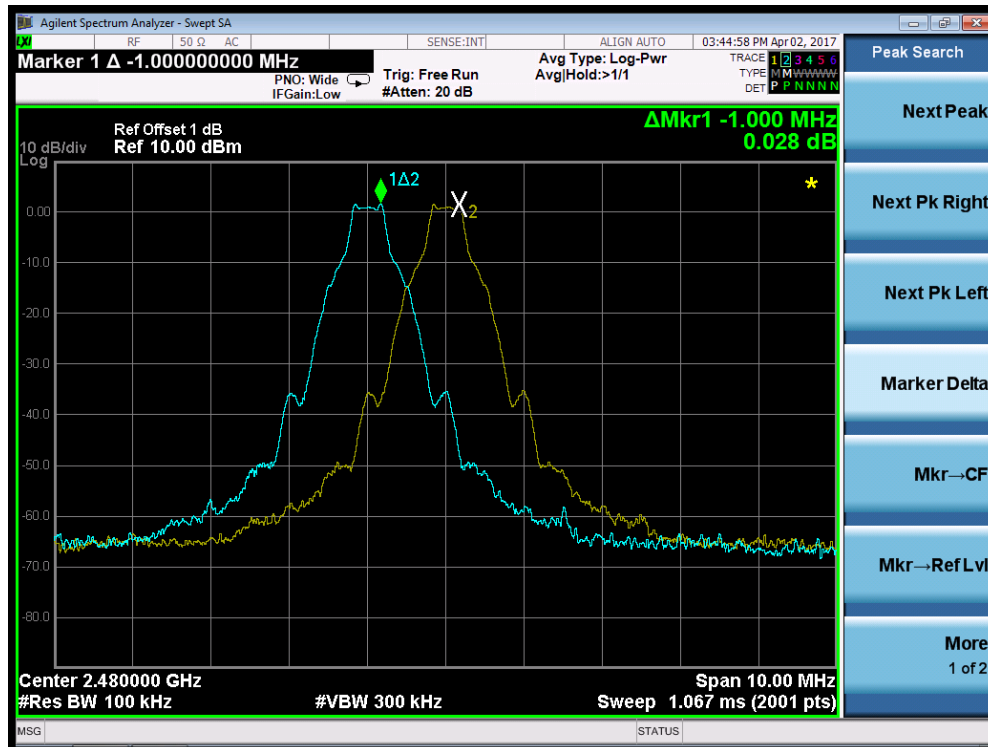
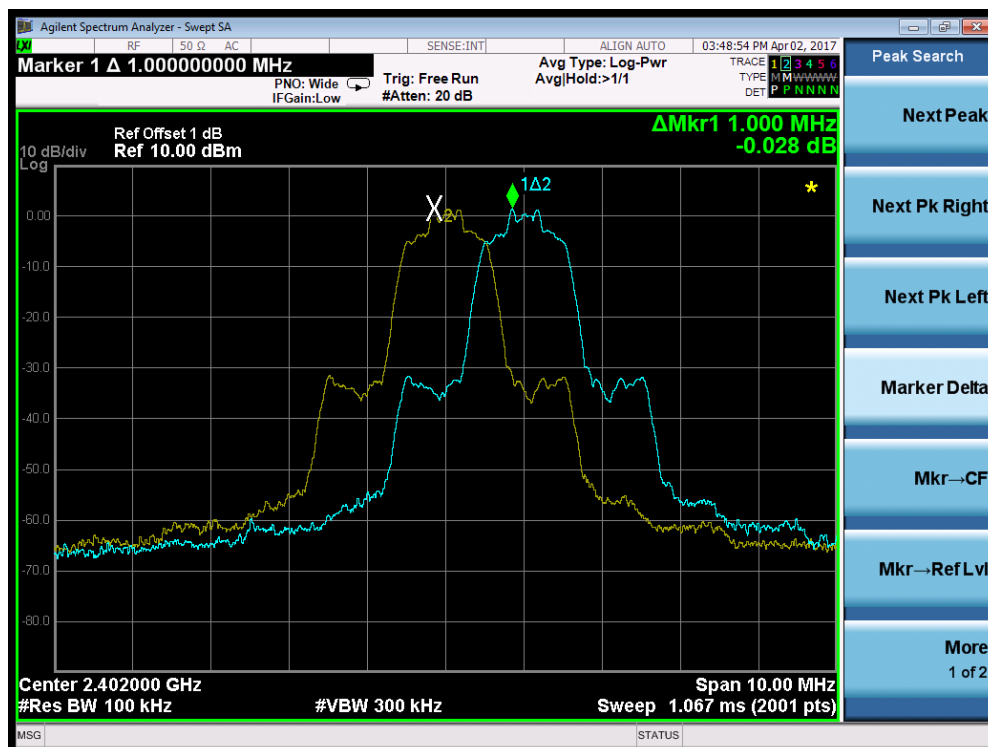
Figure 27: Frequency Separation, TM10, observation Frequency 2480MHz

Figure 28: Frequency Separation, TM11, observation Frequency 2402MHz


Figure 29: Frequency Separation, TM11, observation Frequency 2441MHz

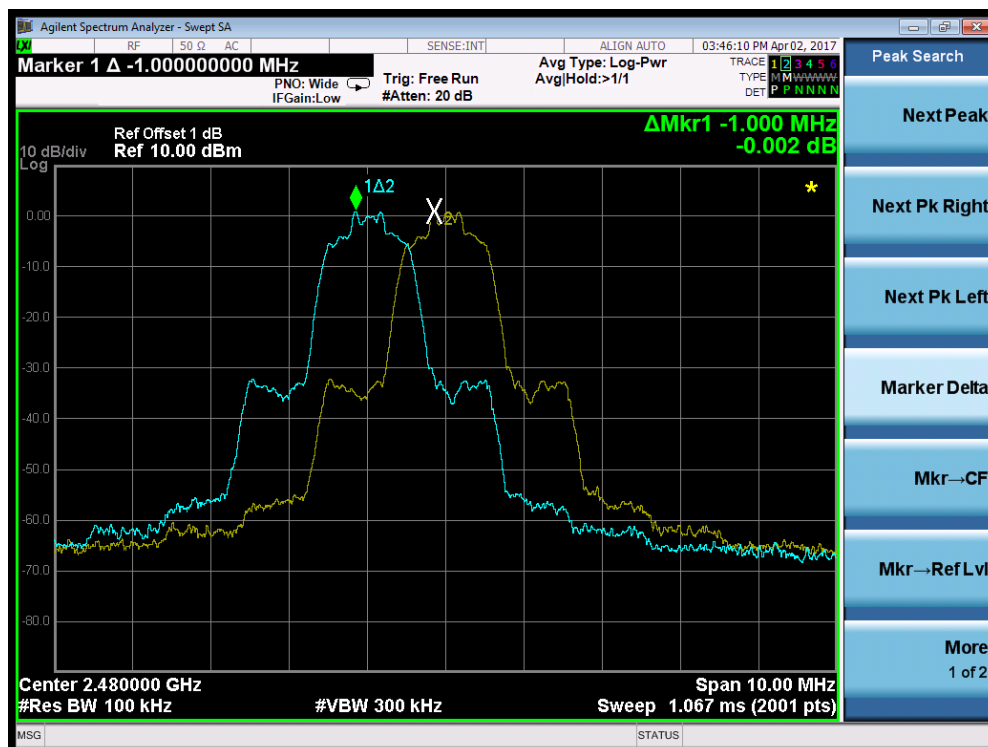
Figure 30: Frequency Separation, TM11, observation Frequency 2480MHz


Figure 31: Frequency Separation, TM12, observation Frequency 2402MHz

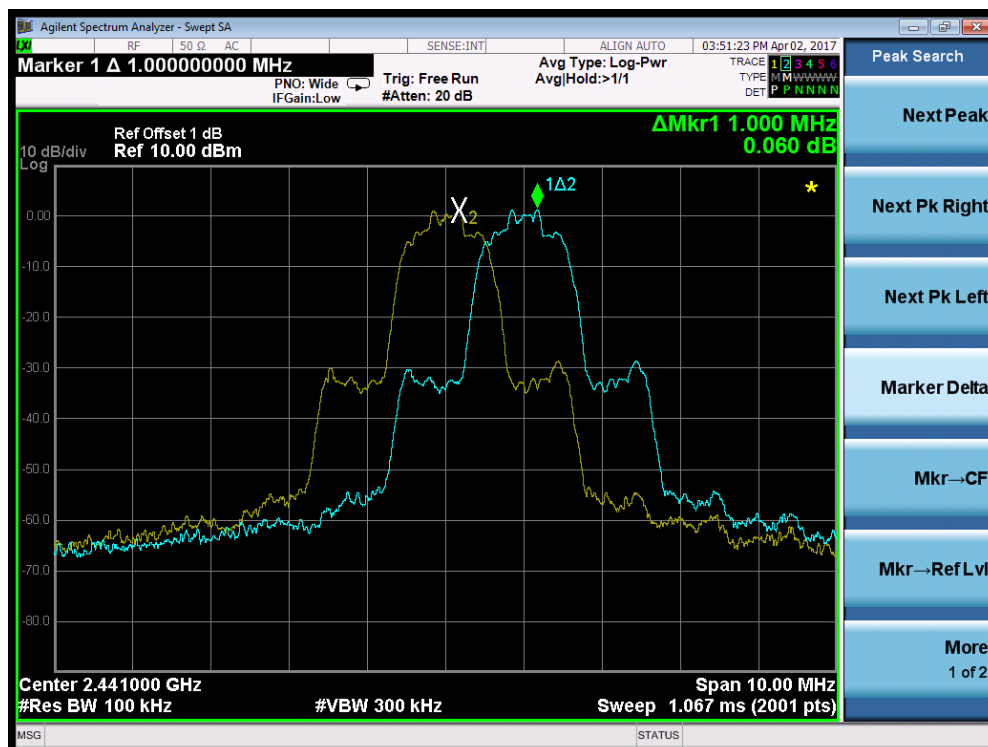
Figure 32: Frequency Separation, TM12, observation Frequency 2441MHz


Figure 33: Frequency Separation, TM12, observation Frequency 2480MHz


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5.1.6 Number of Hopping Frequency

RESULT:**Pass**

Date of testing : 2017-04-02
Test standard : FCC 15.247(a)(1)(iii)
Test procedure : ANSI C63.10: 2013
Limit : FCC 15.247(a)(1)(iii)
Kind of test site : Shielded room

Test setup

Operation Mode : TM10 to TM12
Ambient temperature : 25°C
Relative humidity : 52%
Atmospheric pressure : 101kPa

Table 7: Number of Hopping Frequency

| Frequency Range | Measured Quantity of Hopping Channel | Limit |
|-----------------|--------------------------------------|-------|
| 2402 to 2480 | 79 | ≥15 |

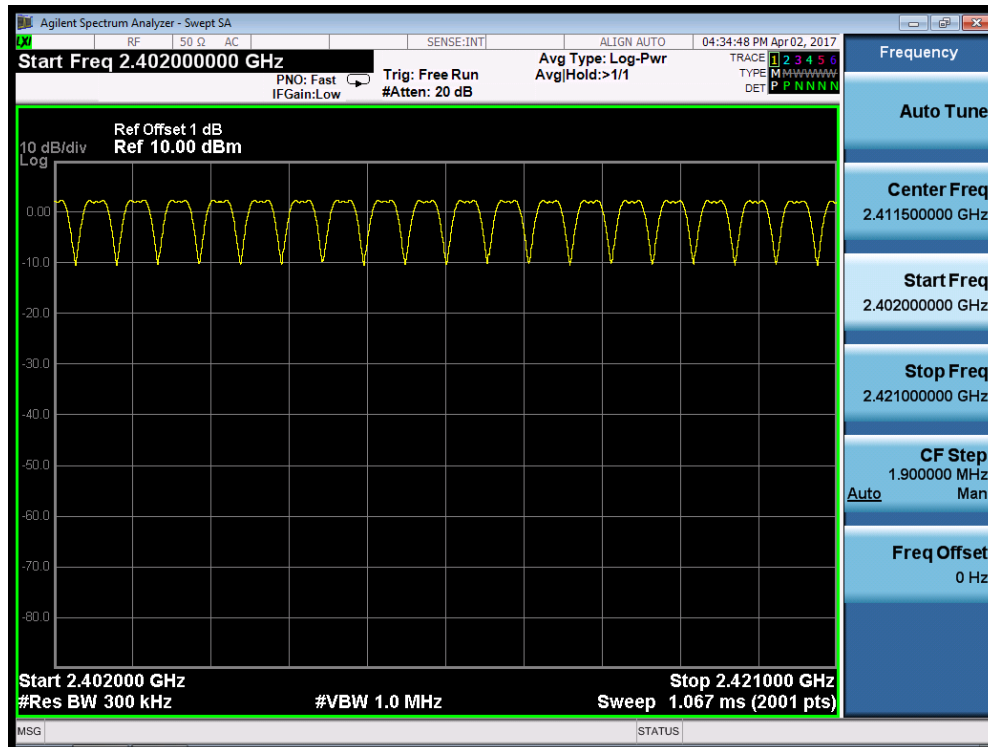
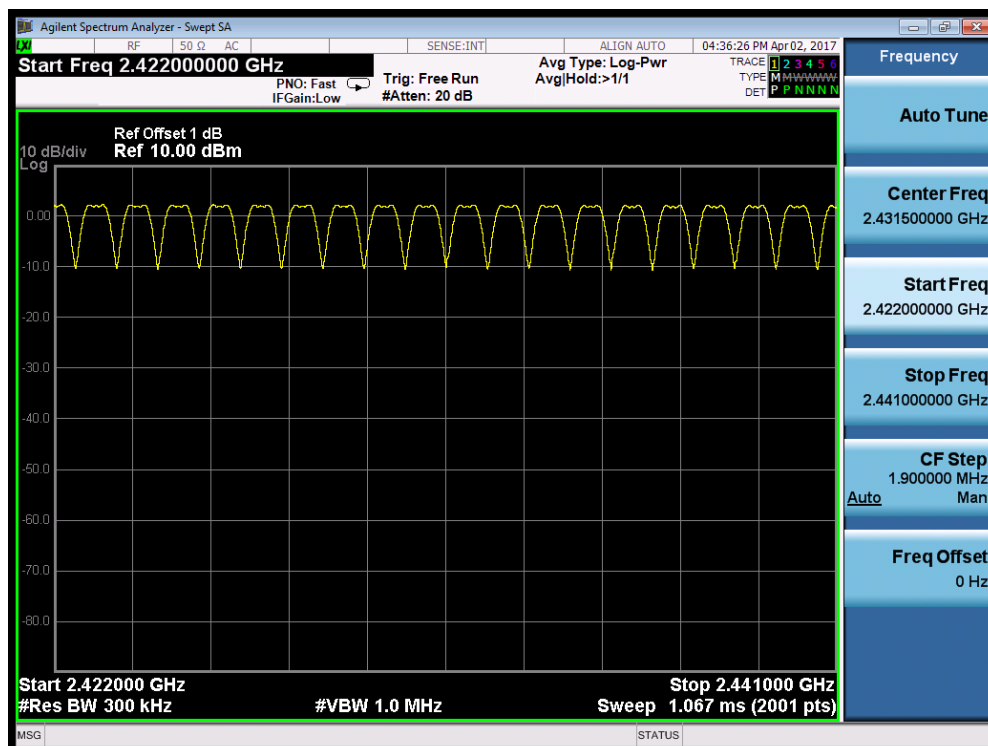
Figure 34: Number of Hopping Frequency, TM10, part 1

Figure 35: Number of Hopping Frequency, TM10, part 2


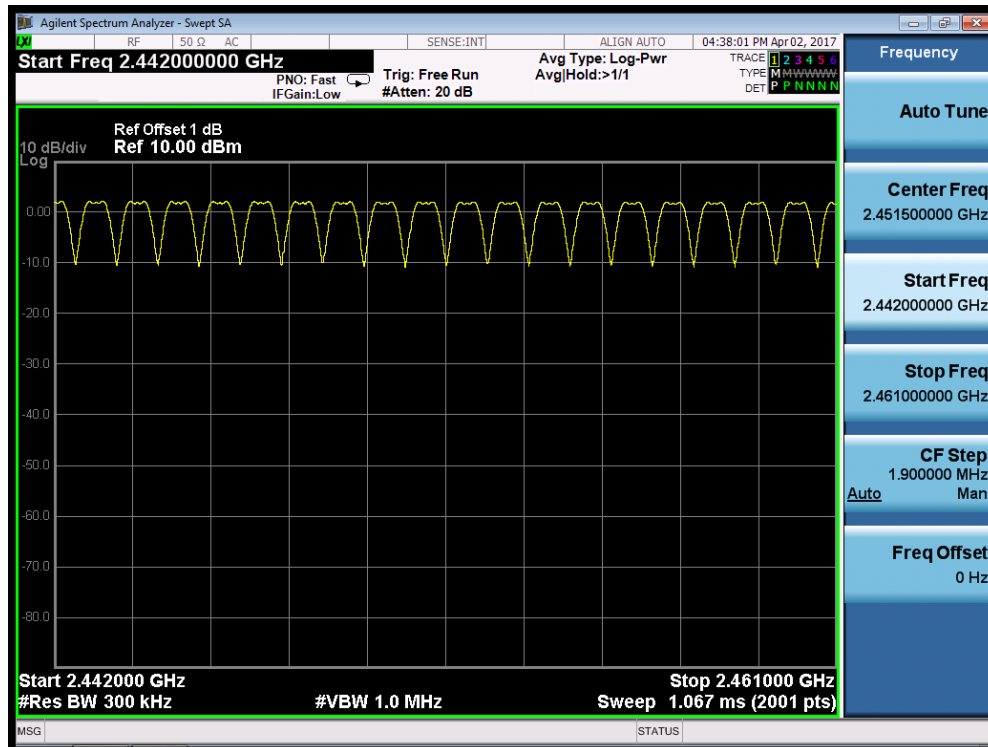
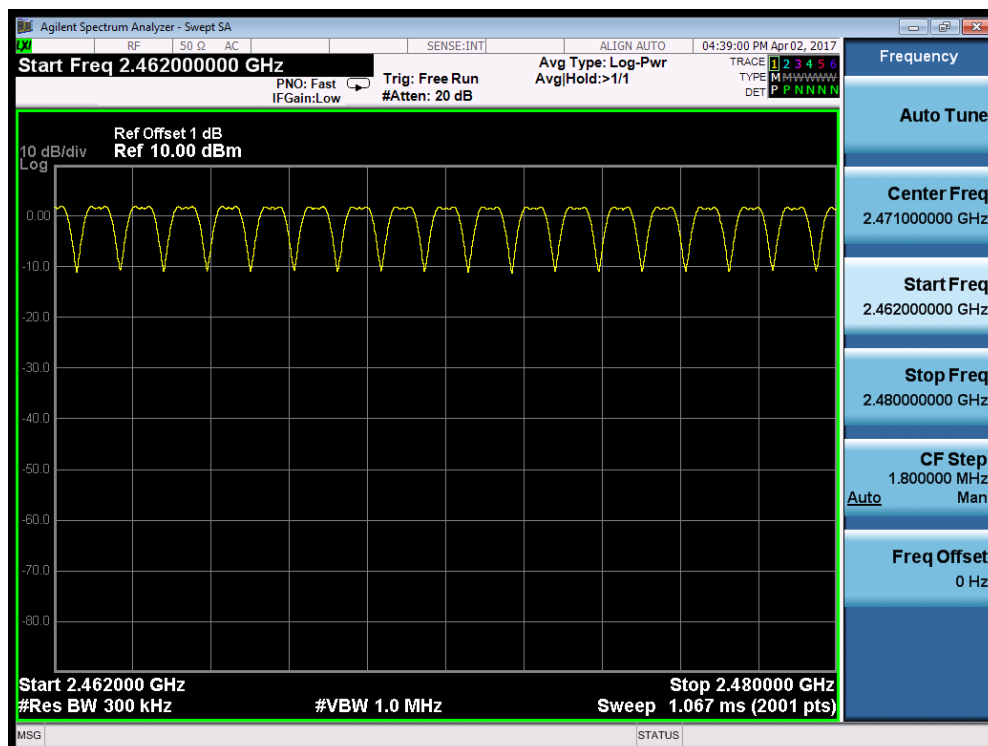
Figure 36: Number of Hopping Frequency, TM10, part 3

Figure 37: Number of Hopping Frequency, TM10, part 4


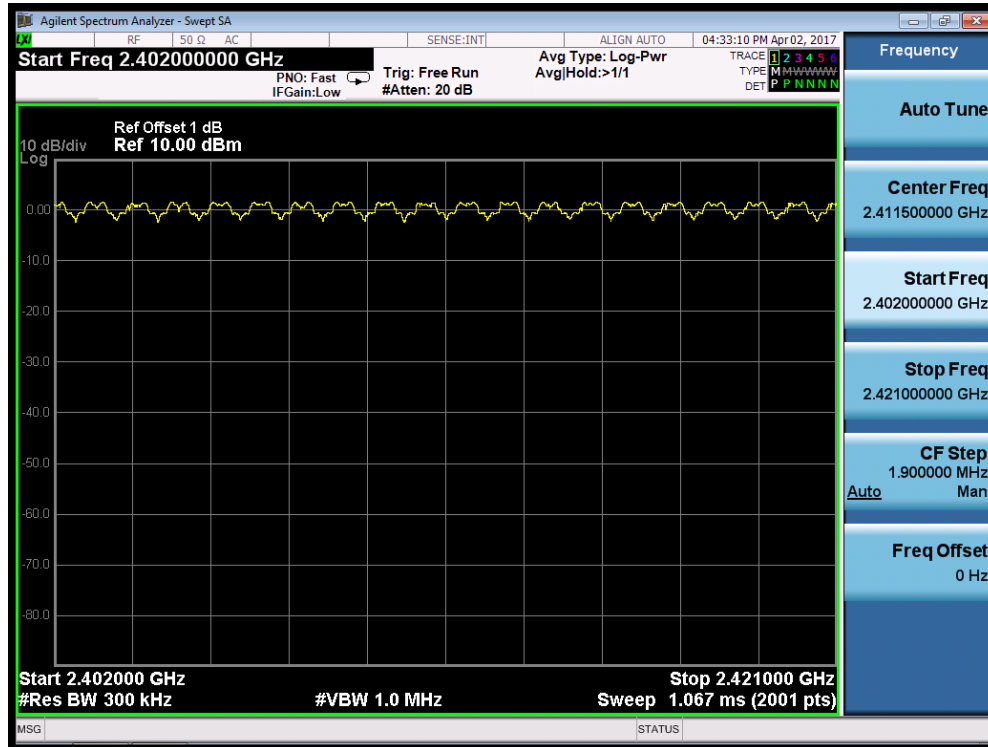
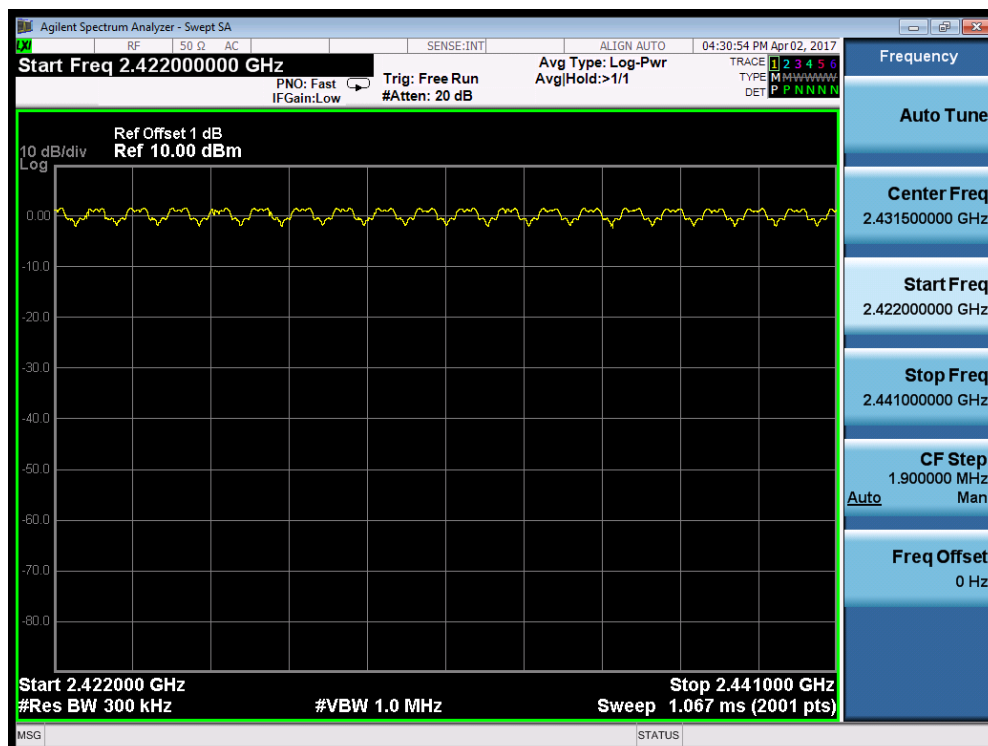
Figure 38: Number of Hopping Frequency, TM11, part 1

Figure 39: Number of Hopping Frequency, TM11, part 2


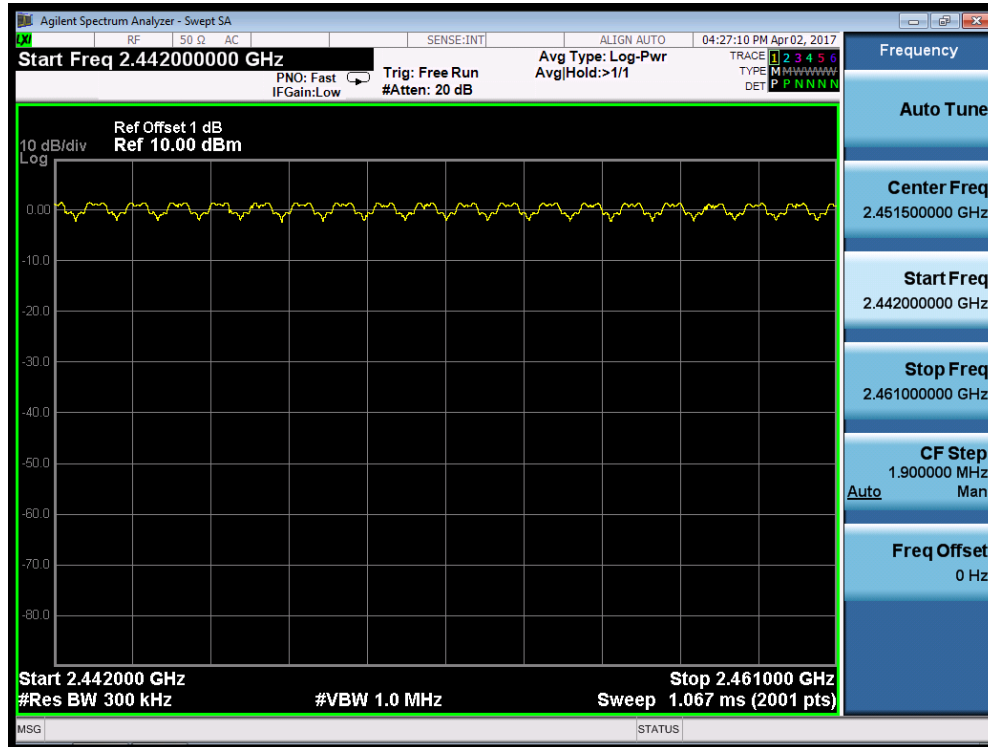
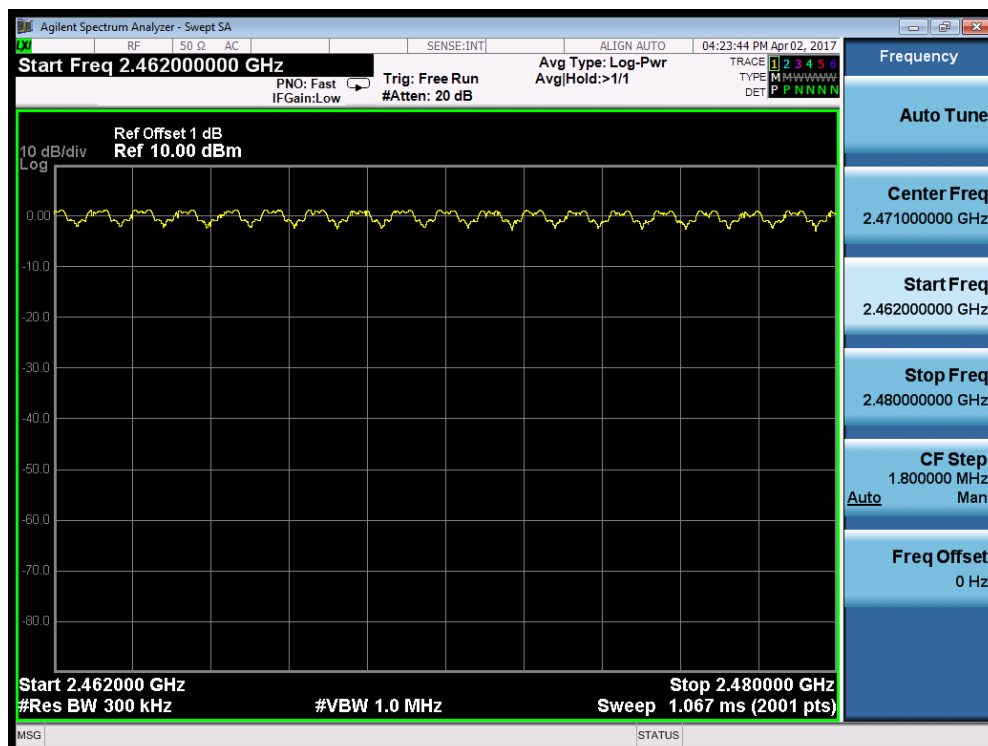
Figure 40: Number of Hopping Frequency, TM11, part 3

Figure 41: Number of Hopping Frequency, TM11, part 4


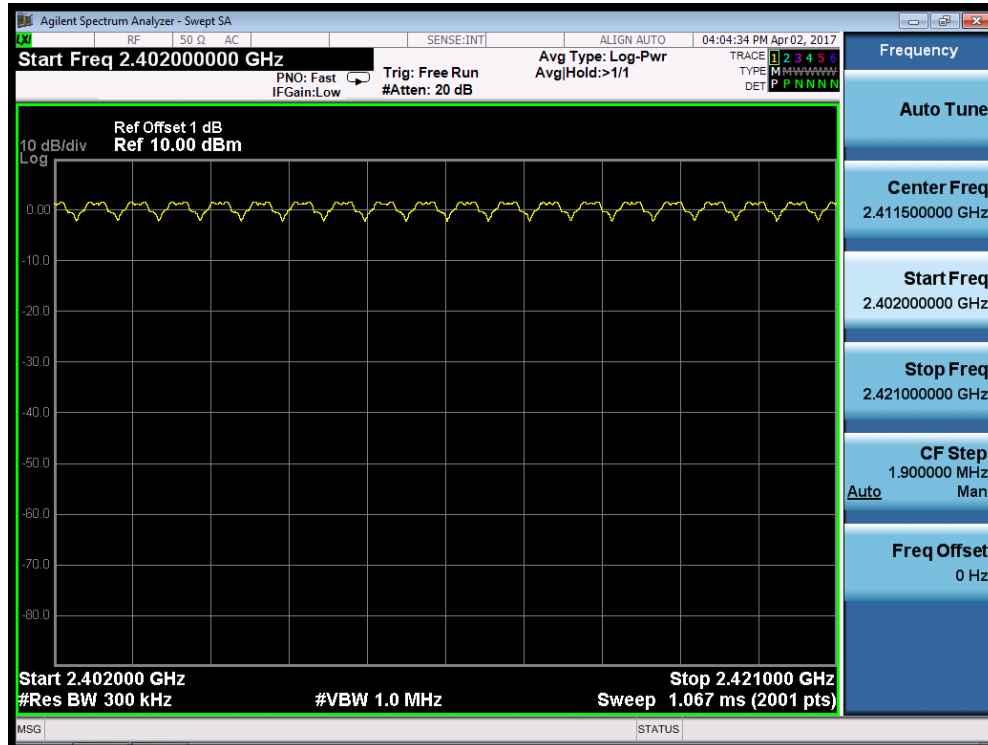
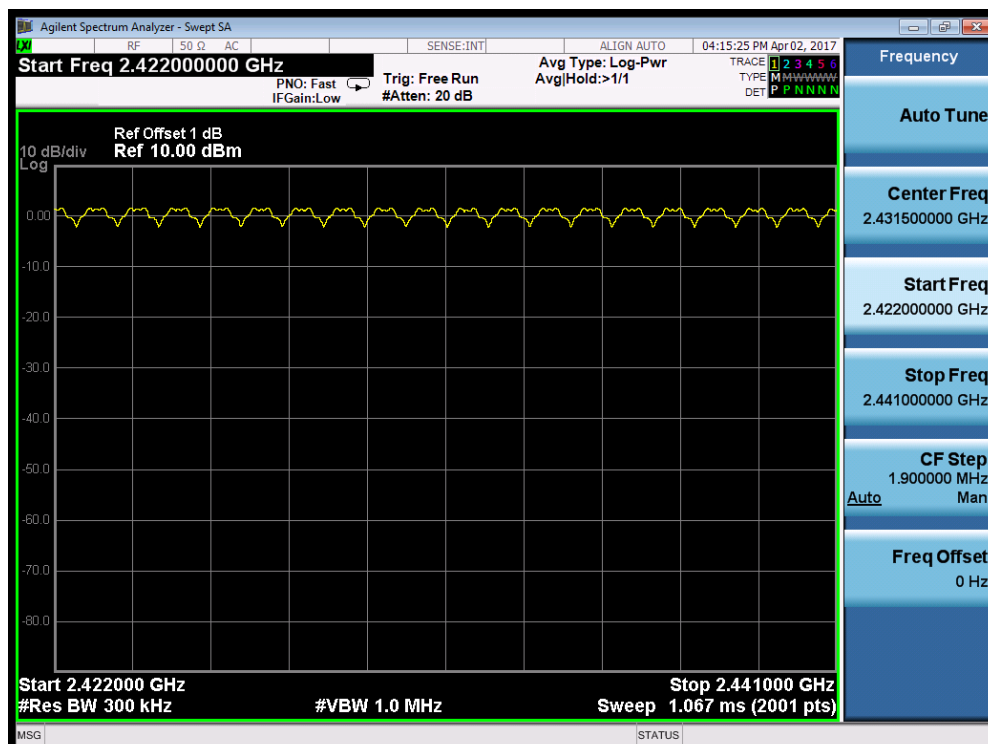
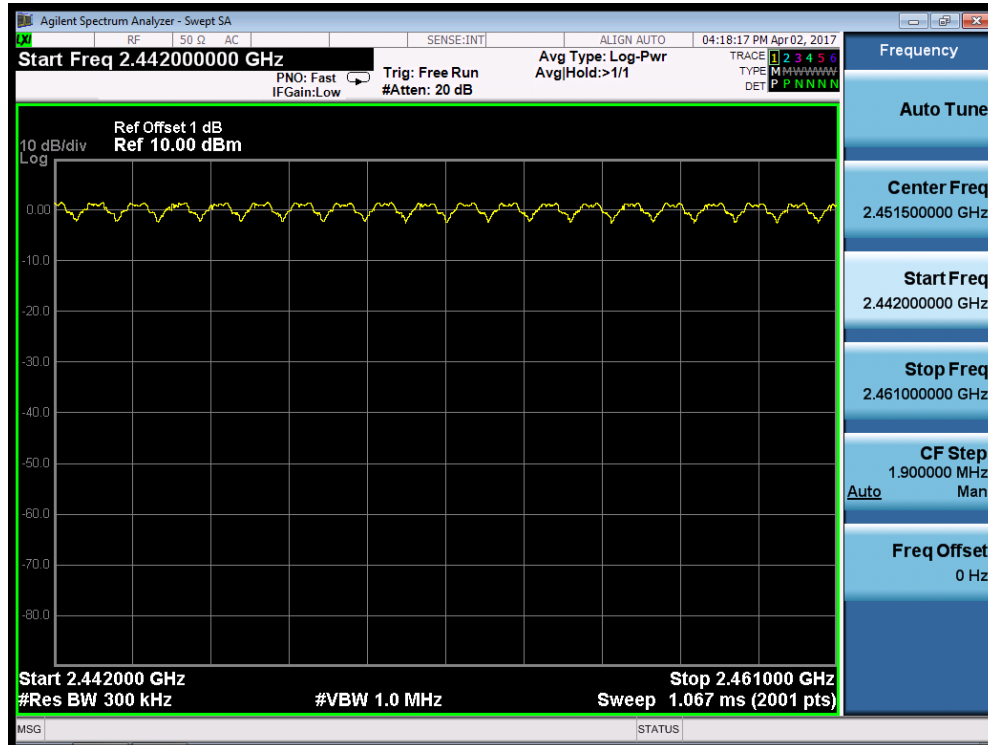
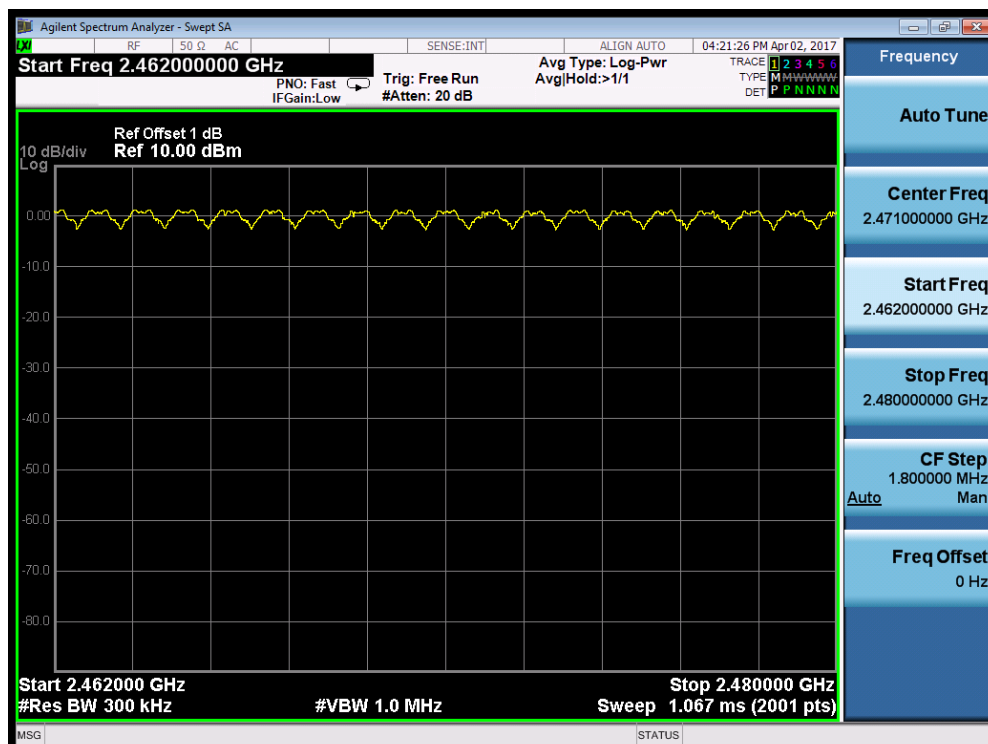
Figure 42: Number of Hopping Frequency, TM12, part 1

Figure 43: Number of Hopping Frequency, TM12, part 2


Figure 44: Number of Hopping Frequency, TM12, part 3

Figure 45: Number of Hopping Frequency, TM12, part 4


5.1.7 Time of Occupancy

RESULT:
Pass

Date of testing : 2017-04-02
 Test standard : FCC 15.247(a)(1)(iii)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC 15.247(a)(1)(iii)
 Kind of test site : Shielded room

Test setup

Operation Mode : TM12 to TM14
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Table 8: Time of Occupancy, TM12 to TM14

| Mode | Frequency [MHz] | Packet Duration [ms] | maximum number of hopping channels | Average Time of Occupancy [ms] | Limit [ms] |
|------|-----------------|----------------------|------------------------------------|--------------------------------|------------|
| TM14 | 2441 | 0.380 | 320 | 121.60 | 400 |
| TM13 | 2441 | 1.630 | 160 | 260.80 | 400 |
| TM12 | 2441 | 2.880 | 107 | 308.16 | 400 |

Note: Average time of occupancy = [(Packet duration * Number of hops per channel in a 31.6s period).

The spectrum analyzer center frequency was set to one of the known hopping channel. The SWEEP TIME was set to 10ms, the SPAN was set to ZERO SPAN, and the TRIGGER was set to VIDEO. The time duration of the transmissions so captured was measured with the MARKER DELTA function.

According the BLUETOOTH STANDARD SPECIFICATION, the nominal hop rate is 1600 hops/s. All Bluetooth units participating in the piconet are time- and hop-synchronized to the channel.

The maximum number of hopping channels in 31.6s for 3DH1 = $1600 / 2 / 79 * 31.6 = 320$
 The maximum number of hopping channels in 31.6s for 3DH3 = $1600 / 4 / 79 * 31.6 = 160$
 The maximum number of hopping channels in 31.6s for 3DH5 = $1600 / 6 / 79 * 31.6 = 107$

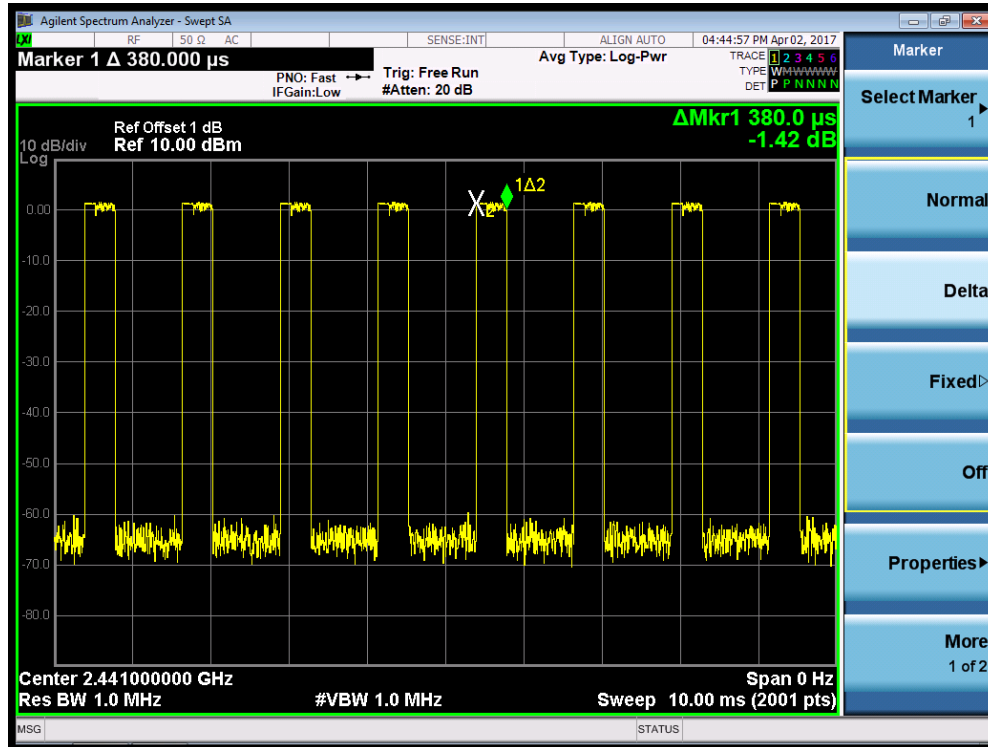
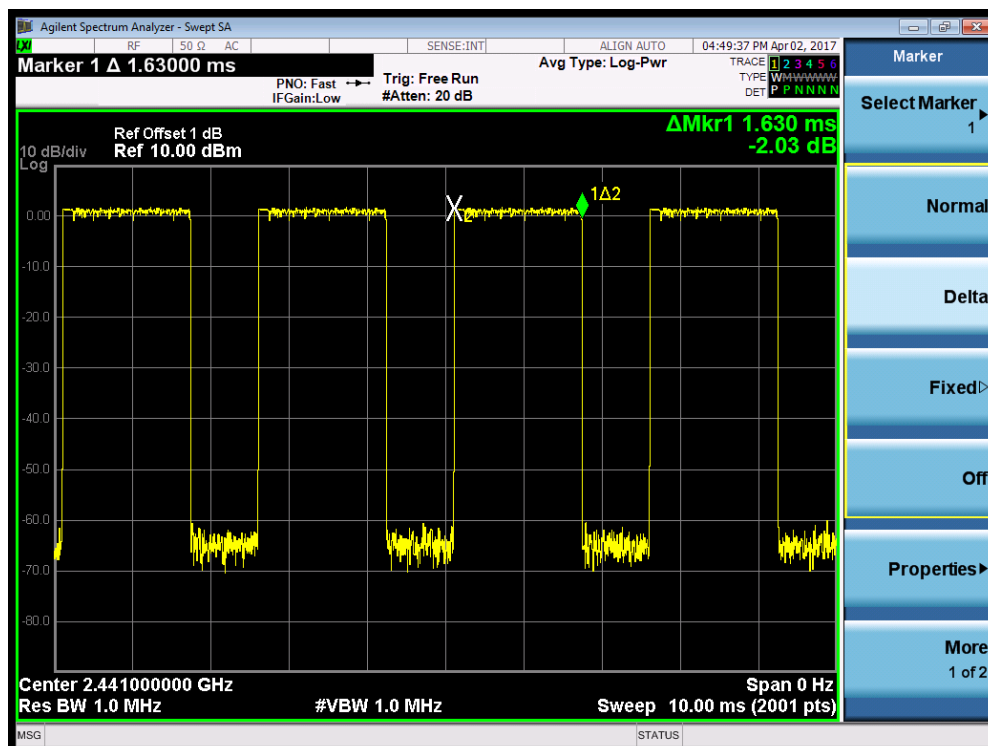
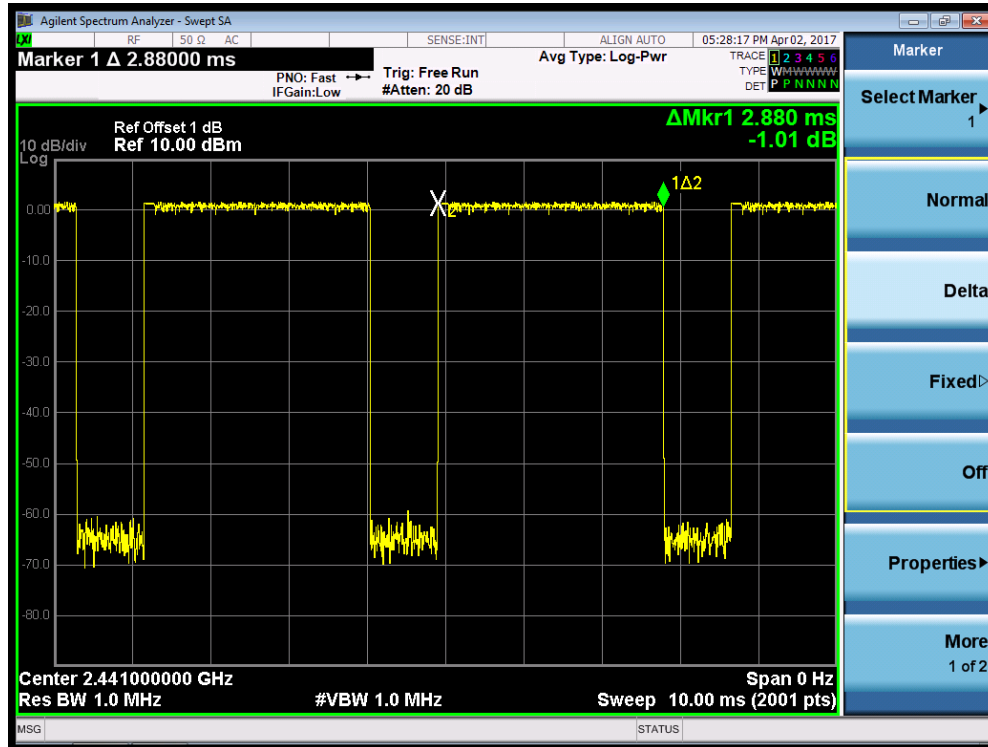
Figure 46: Time of Occupancy, TM14, observation Frequency 2441MHz

Figure 47: Time of Occupancy, TM13, observation Frequency 2441MHz


Figure 48: Time of Occupancy, TM12, observation Frequency 2441MHz


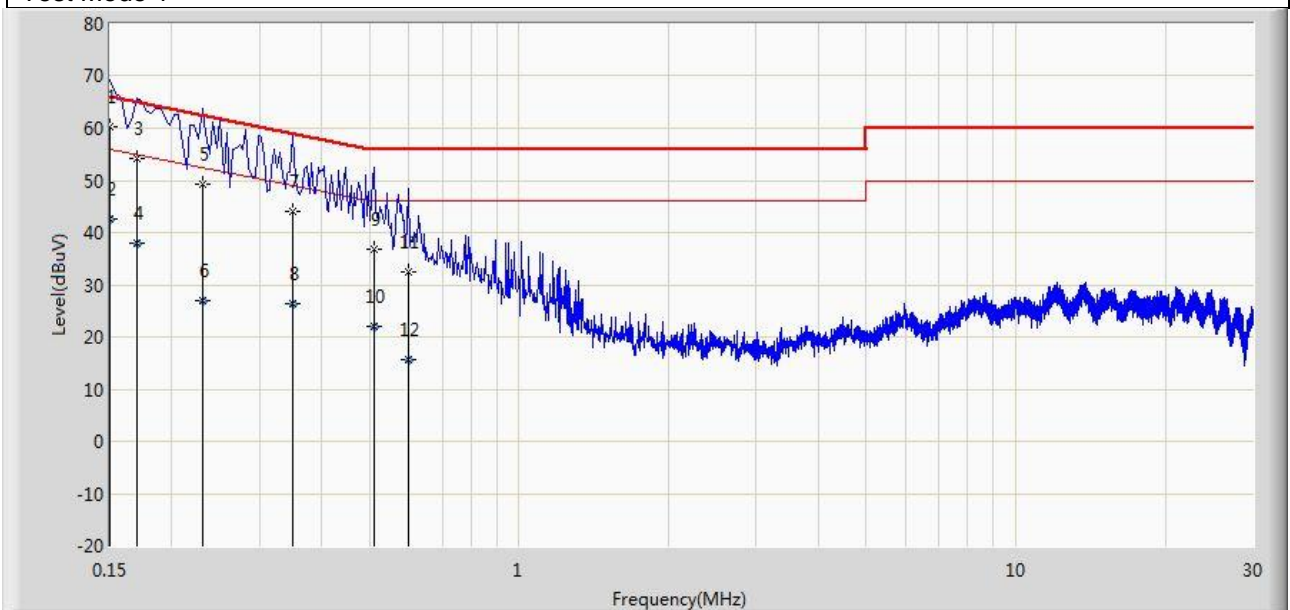
5.2 Emission in the Frequency Range up to 30MHz

5.2.1 Conducted Emission

RESULT:
PASS

Date of testing : 2017/07/04
 Test standard : FCC Part 15.207 (a)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC Part 15.207 (a)
 Kind of test site : Shielded room

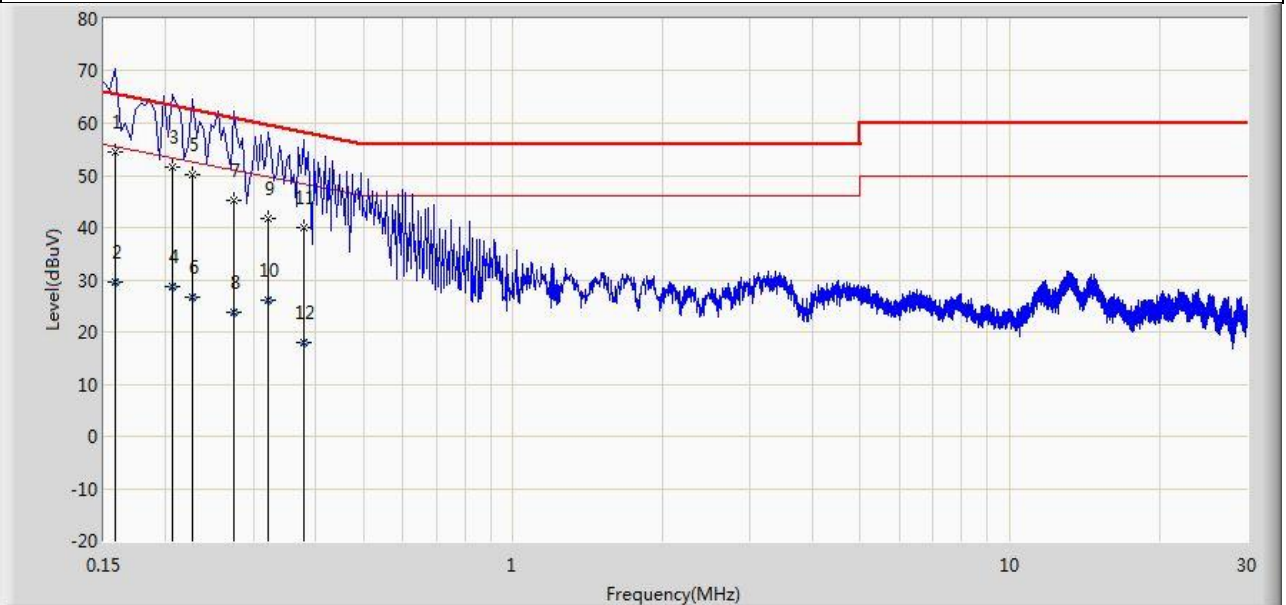
| | |
|-----------------------------------|----------------------|
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Bacon Dong |
| Probe: ENV216_101683_Filter On | Polarity: Line |
| EUT: MID | Power: AC 120V/60Hz |
| Test Mode 1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1 | | | 0.150 | 60.296 | 49.128 | -5.704 | 66.000 | 11.168 | QP |
| 2 | | | 0.150 | 42.479 | 31.310 | -13.521 | 56.000 | 11.168 | AV |
| 3 | | | 0.170 | 54.104 | 44.027 | -10.856 | 64.960 | 10.078 | QP |
| 4 | | | 0.170 | 38.066 | 27.988 | -16.895 | 54.960 | 10.078 | AV |
| 5 | | | 0.230 | 49.370 | 39.422 | -13.080 | 62.450 | 9.947 | QP |
| 6 | | * | 0.230 | 26.926 | 16.978 | -25.524 | 52.450 | 9.947 | AV |
| 7 | | | 0.350 | 43.930 | 33.885 | -15.033 | 58.962 | 10.044 | QP |
| 8 | | | 0.350 | 26.516 | 16.471 | -22.447 | 48.962 | 10.044 | AV |
| 9 | | | 0.510 | 36.710 | 26.554 | -19.290 | 56.000 | 10.157 | QP |
| 10 | | | 0.510 | 21.976 | 11.819 | -24.024 | 46.000 | 10.157 | AV |
| 11 | | | 0.598 | 32.379 | 22.263 | -23.621 | 56.000 | 10.116 | QP |
| 12 | | | 0.598 | 15.782 | 5.666 | -30.218 | 46.000 | 10.116 | AV |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

| | |
|-----------------------------------|----------------------|
| Limit: FCC_Part15.207_CE_AC Power | Engineer: Bacon Dong |
| Probe: ENV216_101683_Filter On | Polarity: Neutral |
| EUT: MID | Power: AC 120V/60Hz |
| Test Mode 1 | |



| No | Flag | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Factor (dB) | Type |
|----|------|------|-----------------|----------------------|----------------------|-----------------|--------------|-------------|------|
| 1 | | * | 0.158 | 54.634 | 44.344 | -10.935 | 65.568 | 10.290 | QP |
| 2 | | | 0.158 | 29.589 | 19.299 | -25.979 | 55.568 | 10.290 | AV |
| 3 | | | 0.206 | 51.688 | 41.687 | -11.677 | 63.365 | 10.001 | QP |
| 4 | | | 0.206 | 28.753 | 18.752 | -24.612 | 53.365 | 10.001 | AV |
| 5 | | | 0.226 | 50.100 | 40.117 | -12.495 | 62.595 | 9.982 | QP |
| 6 | | | 0.226 | 26.561 | 16.578 | -26.035 | 52.595 | 9.982 | AV |
| 7 | | | 0.274 | 45.191 | 35.172 | -15.805 | 60.996 | 10.019 | QP |
| 8 | | | 0.274 | 23.697 | 13.678 | -27.299 | 50.996 | 10.019 | AV |
| 9 | | | 0.322 | 41.794 | 31.740 | -17.861 | 59.655 | 10.054 | QP |
| 10 | | | 0.322 | 26.069 | 16.015 | -23.586 | 49.655 | 10.054 | AV |
| 11 | | | 0.378 | 40.142 | 30.047 | -18.181 | 58.323 | 10.096 | QP |
| 12 | | | 0.378 | 17.981 | 7.885 | -30.343 | 48.323 | 10.096 | AV |

Note: Measure Level (dBμV) = Reading Level (dBμV) + Factor (dB)
 Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

5.3 Emission in the Frequency Range above 30MHz

5.3.1 Radiated Spurious Emission

RESULT:
Pass

Date of testing : 2017-04-02 – 2017-04-08
 Test standard : FCC 15.247(d)
 Test procedure : ANSI C63.10: 2013
 Limit : FCC 15.247(d)
 FCC 15.209(a)
 Kind of test site : 3m Semi-Anechoic Chamber

Test setup

Test Channel : Low/ Middle/ High
 Operation Mode : TM1 to TM9
 Ambient temperature : 25°C
 Relative humidity : 52%
 Atmospheric pressure : 101kPa

Note: There is no additional emission generated due to simultaneous-transmission operations compared to standalone operations testing

Table 9: Radiated Spurious Emission, below 1GHz, TM1

| Mode | Freq. [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [Db] | Limit [dBuV/m] | Factor [dB] | Type | Ant. Pol. |
|------|-------------|------------------------|----------------------|-----------------|----------------|-------------|------|-----------|
| TM1 | 102.750 | 10.414 | -2.762 | -33.086 | 43.500 | 13.176 | QP | H |
| | 203.145 | 12.568 | 0.236 | -30.932 | 43.500 | 12.333 | QP | |
| | 272.500 | 13.585 | -0.517 | -32.415 | 46.000 | 14.103 | QP | |
| | 377.260 | 16.325 | 0.065 | -29.675 | 46.000 | 16.260 | QP | |
| | 555.255 | 17.921 | -1.349 | -28.079 | 46.000 | 19.271 | QP | |
| | 809.880 | 21.397 | -1.645 | -24.603 | 46.000 | 23.042 | QP | |
| | 37.275 | 23.591 | 10.270 | -16.409 | 40.000 | 13.321 | QP | V |
| | 45.520 | 21.826 | 6.890 | -18.174 | 40.000 | 14.936 | QP | |
| | 61.525 | 17.519 | 3.890 | -22.481 | 40.000 | 13.630 | QP | |
| | 92.565 | 18.368 | 6.490 | -25.132 | 43.500 | 11.878 | QP | |
| | 232.730 | 17.468 | 4.290 | -28.532 | 46.000 | 13.178 | QP | |
| | 534.885 | 17.239 | -1.616 | -28.761 | 46.000 | 18.855 | QP | |

Note:

All the modes were performed, only the worst case was listed in the table above.

Table 10: Radiated Spurious Emission, above 1GHz, TM1 to TM3

| Mode | Freq. [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [Db] | Limit [dBuV/m] | Factor [dB] | Type | Ant. Pol. |
|-----------|-------------|------------------------|----------------------|-----------------|----------------|-------------|------|-----------|
| TM1 | 4799.500 | 38.005 | 35.307 | -35.995 | 74.000 | 2.698 | PK | H |
| | 7519.500 | 43.613 | 35.318 | -30.387 | 74.000 | 8.295 | PK | |
| | 8837.000 | 45.620 | 36.504 | -32.780 | 78.400 | 9.116 | PK | |
| | 10095.000 | 46.717 | 35.115 | -31.683 | 78.400 | 11.602 | PK | V |
| | 4051.500 | 37.072 | 36.561 | -36.928 | 74.000 | 0.511 | PK | |
| | 4808.000 | 41.092 | 38.398 | -32.908 | 74.000 | 2.694 | PK | |
| | 7205.000 | 45.030 | 37.225 | -33.370 | 78.400 | 7.805 | PK | |
| 8658.500 | 45.646 | 36.810 | -32.754 | 78.400 | 8.837 | PK | | |
| TM2 | 4774.000 | 38.496 | 35.852 | -35.504 | 74.000 | 2.644 | PK | H |
| | 7502.500 | 44.060 | 35.805 | -29.940 | 74.000 | 8.254 | PK | |
| | 8599.000 | 44.548 | 35.831 | -36.852 | 81.400 | 8.717 | PK | |
| | 10197.000 | 47.025 | 35.268 | -34.375 | 81.400 | 11.757 | PK | V |
| | 3830.500 | 40.019 | 40.077 | -33.981 | 74.000 | -0.058 | PK | |
| | 4884.500 | 41.259 | 38.574 | -32.741 | 74.000 | 2.684 | PK | |
| | 8658.500 | 44.829 | 35.993 | -36.571 | 81.400 | 8.837 | PK | |
| 10027.000 | 46.365 | 34.886 | -35.035 | 81.400 | 11.479 | PK | | |
| TM3 | 4799.500 | 38.348 | 35.650 | -35.652 | 74.000 | 2.698 | PK | H |
| | 7630.000 | 44.238 | 36.199 | -29.762 | 74.000 | 8.039 | PK | |
| | 8624.500 | 45.727 | 36.947 | -35.273 | 81.000 | 8.780 | PK | |
| | 10214.000 | 46.684 | 34.873 | -34.316 | 81.000 | 11.811 | PK | V |
| | 4961.000 | 39.839 | 36.927 | -34.161 | 74.000 | 2.912 | PK | |
| | 7519.500 | 43.793 | 35.498 | -30.207 | 74.000 | 8.295 | PK | |
| | 8684.000 | 44.892 | 35.890 | -36.108 | 81.000 | 9.002 | PK | |
| 10154.500 | 46.995 | 35.386 | -34.005 | 81.000 | 11.609 | PK | | |

Table 11: Radiated Spurious Emission, above 1GHz, TM4 to TM6

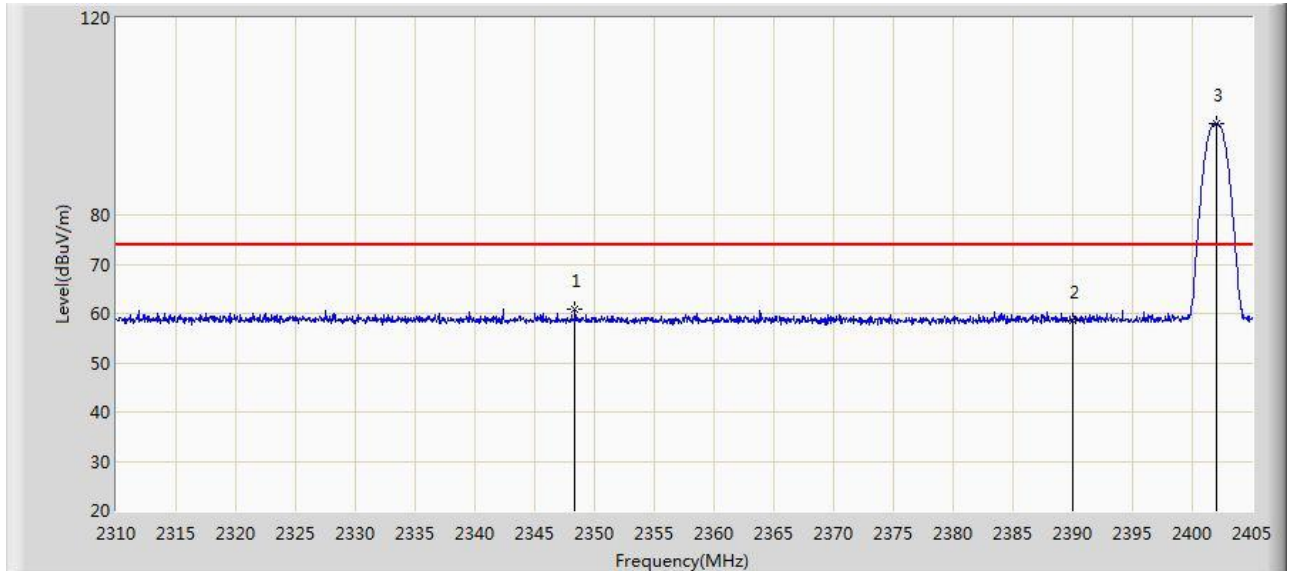
| Mode | Freq. [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type | Ant. Pol. | |
|------|-------------|------------------------|----------------------|-----------------|----------------|-------------|------|-----------|---|
| TM4 | 4799.500 | 37.775 | 35.077 | -36.225 | 74.000 | 2.698 | PK | H | |
| | 7366.500 | 43.896 | 35.969 | -30.104 | 74.000 | 7.927 | PK | | |
| | 8641.500 | 45.555 | 36.776 | -32.445 | 78.000 | 8.779 | PK | | |
| | 10129.000 | 46.826 | 35.266 | -31.174 | 78.000 | 11.560 | PK | | |
| | 4799.500 | 39.001 | 36.303 | -34.999 | 74.000 | 2.698 | PK | V | |
| | 7613.000 | 43.304 | 35.244 | -30.696 | 74.000 | 8.060 | PK | | |
| | 8616.000 | 45.382 | 36.591 | -32.618 | 78.000 | 8.791 | PK | | |
| TM5 | 10290.500 | 46.722 | 34.708 | -31.278 | 78.000 | 12.014 | PK | H | |
| | 4816.500 | 38.025 | 35.328 | -35.975 | 74.000 | 2.697 | PK | | |
| | 7485.500 | 44.003 | 35.802 | -29.997 | 74.000 | 8.201 | PK | | |
| | 8845.500 | 44.849 | 35.748 | -36.351 | 81.200 | 9.101 | PK | | |
| | 10197.000 | 47.809 | 36.052 | -33.391 | 81.200 | 11.757 | PK | | |
| | 3898.500 | 43.323 | 43.138 | -30.677 | 74.000 | 0.185 | PK | | V |
| | 4884.500 | 38.831 | 36.146 | -35.169 | 74.000 | 2.684 | PK | | |
| TM6 | 5955.500 | 42.177 | 37.890 | -39.023 | 81.200 | 4.287 | PK | H | |
| | 8837.000 | 45.404 | 36.288 | -35.796 | 81.200 | 9.116 | PK | | |
| | 4799.500 | 38.564 | 35.866 | -35.436 | 74.000 | 2.698 | PK | | |
| | 7579.000 | 44.159 | 35.952 | -29.841 | 74.000 | 8.207 | PK | | |
| | 8616.000 | 45.087 | 36.296 | -35.613 | 80.700 | 8.791 | PK | | |
| | 10171.500 | 46.576 | 34.868 | -34.124 | 80.700 | 11.707 | PK | | |
| | 4961.000 | 38.094 | 35.182 | -35.906 | 74.000 | 2.912 | PK | | V |
| | 7579.000 | 43.679 | 35.472 | -30.321 | 74.000 | 8.207 | PK | | |
| TM6 | 8633.000 | 45.223 | 36.455 | -35.477 | 80.700 | 8.768 | PK | H | |
| | 10052.500 | 45.840 | 34.302 | -34.860 | 80.700 | 11.538 | PK | | |

Table 12: Radiated Spurious Emission, above 1GHz, TM7 to TM9

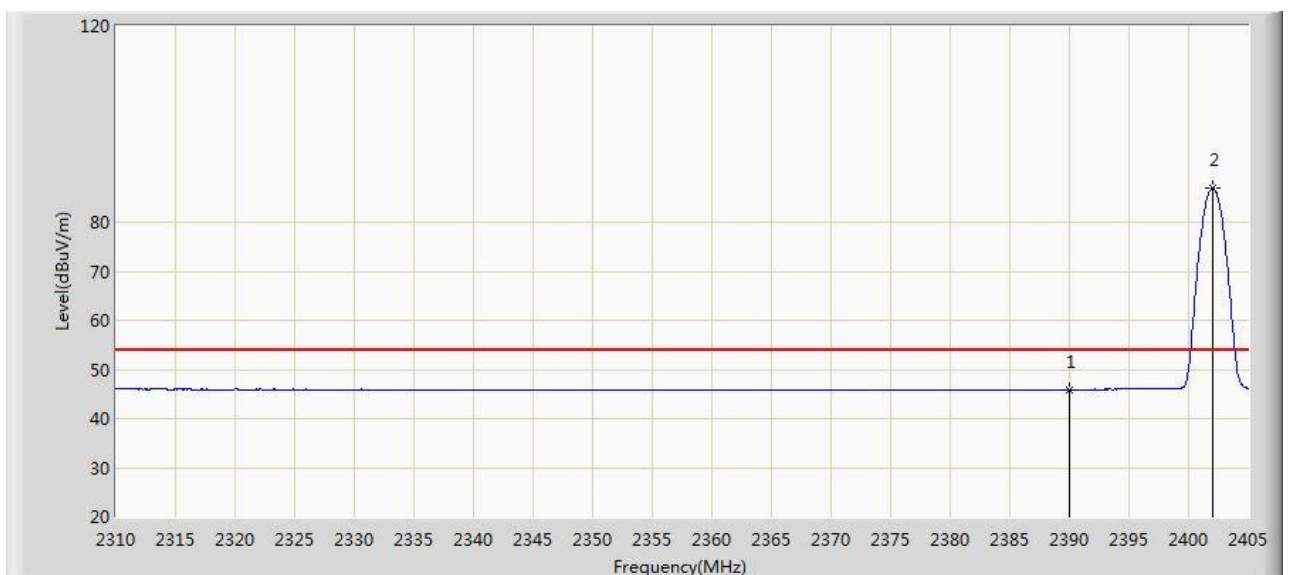
| Mode | Freq. [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type | Ant. Pol. |
|-----------|-------------|------------------------|----------------------|-----------------|----------------|-------------|------|-----------|
| TM7 | 4893.000 | 37.299 | 34.604 | -36.701 | 74.000 | 2.695 | PK | H |
| | 7468.500 | 43.588 | 35.448 | -30.412 | 74.000 | 8.140 | PK | |
| | 8633.000 | 44.964 | 36.196 | -33.136 | 78.100 | 8.768 | PK | |
| | 10163.000 | 46.745 | 35.072 | -31.355 | 78.100 | 11.673 | PK | |
| | 4799.500 | 39.396 | 36.698 | -34.604 | 74.000 | 2.698 | PK | V |
| | 7545.000 | 44.038 | 35.749 | -29.962 | 74.000 | 8.289 | PK | |
| | 8505.500 | 45.509 | 37.151 | -32.591 | 78.100 | 8.358 | PK | |
| TM8 | 10052.500 | 46.626 | 35.088 | -31.474 | 78.100 | 11.538 | PK | H |
| | 4901.500 | 38.036 | 35.320 | -35.964 | 74.000 | 2.716 | PK | |
| | 7553.500 | 44.686 | 36.428 | -29.314 | 74.000 | 8.259 | PK | |
| | 8658.500 | 44.968 | 36.132 | -36.332 | 81.300 | 8.837 | PK | |
| | 10188.500 | 46.406 | 34.657 | -34.894 | 81.300 | 11.750 | PK | V |
| | 4884.500 | 38.907 | 36.222 | -35.093 | 74.000 | 2.684 | PK | |
| | 7477.000 | 43.021 | 34.840 | -30.979 | 74.000 | 8.181 | PK | |
| TM9 | 8675.500 | 44.400 | 35.458 | -36.900 | 81.300 | 8.942 | PK | H |
| | 10146.000 | 46.805 | 35.260 | -34.495 | 81.300 | 11.545 | PK | |
| | 4842.000 | 37.888 | 35.191 | -36.112 | 74.000 | 2.697 | PK | |
| | 7536.500 | 42.071 | 33.776 | -31.929 | 74.000 | 8.296 | PK | |
| | 8956.000 | 44.858 | 35.852 | -35.942 | 80.800 | 9.006 | PK | V |
| | 10137.500 | 46.382 | 34.829 | -34.418 | 80.800 | 11.553 | PK | |
| | 4961.000 | 38.924 | 36.012 | -35.076 | 74.000 | 2.912 | PK | |
| | 7621.500 | 43.807 | 35.758 | -30.193 | 74.000 | 8.048 | PK | |
| 8854.000 | 44.435 | 35.350 | -36.365 | 80.800 | 9.085 | PK | V | |
| 10078.000 | 46.566 | 35.072 | -34.234 | 80.800 | 11.494 | PK | | |

Notes:

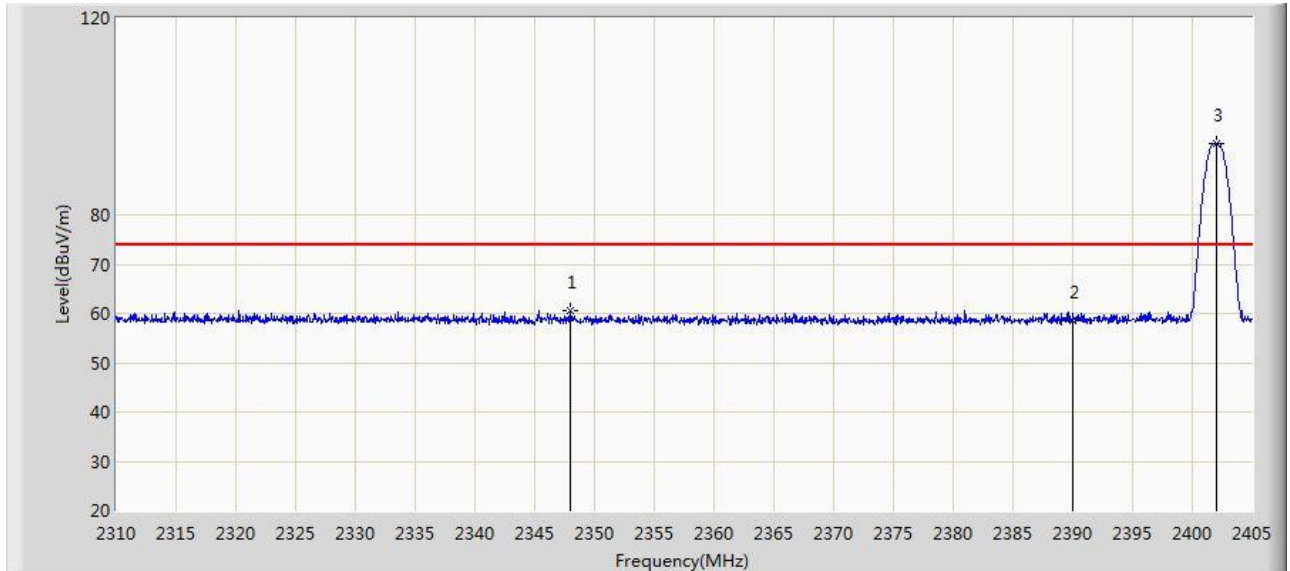
1. Transmit mode comply with the field strength within the restricted bands. There is no spurious found below 30MHz.
2. There is the ambient noise within frequency range 9kHz~30MHz and 18GHz~40GHz, the permissible value is not show in the report.
3. Due to the peak measure values also meet the average limit (54dBm), the average measurement is not tested based on technical judgment.

Figure 49: Band Edge, TM1, Horizontal, PK


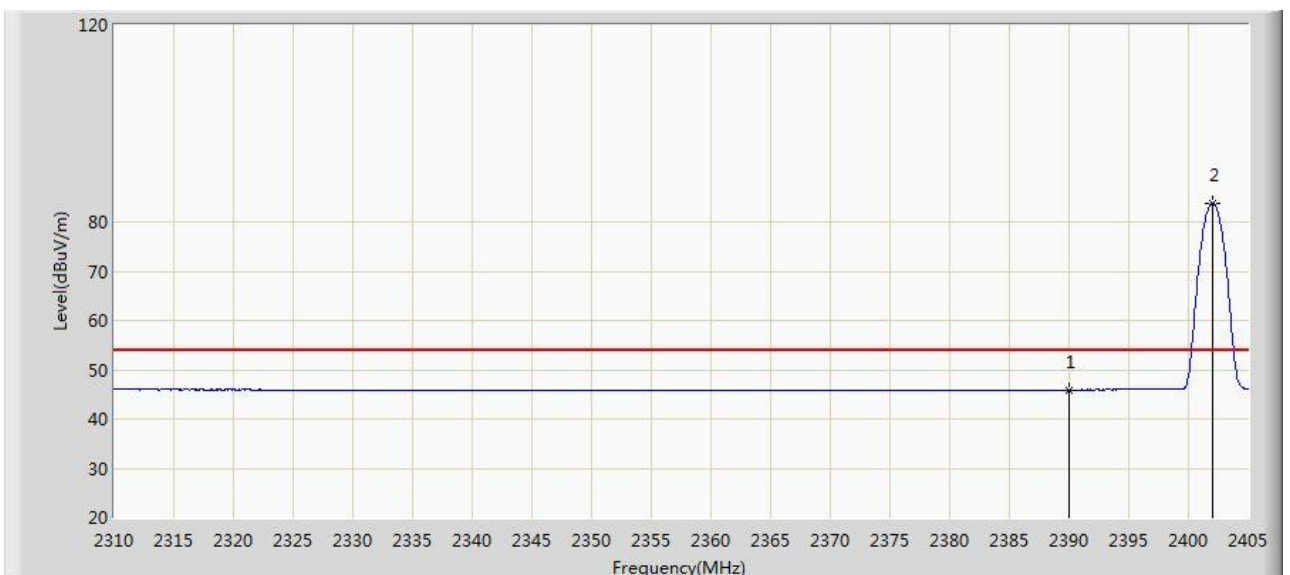
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2348.333 | 60.913 | 28.628 | -13.087 | 74.000 | 32.285 | PK |
| 2390.000 | 58.445 | 26.167 | -15.555 | 74.000 | 32.278 | PK |
| 2402.008 | 98.449 | 66.175 | N/A | N/A | 32.274 | PK |

Figure 50: Band Edge, TM1, Horizontal, AV


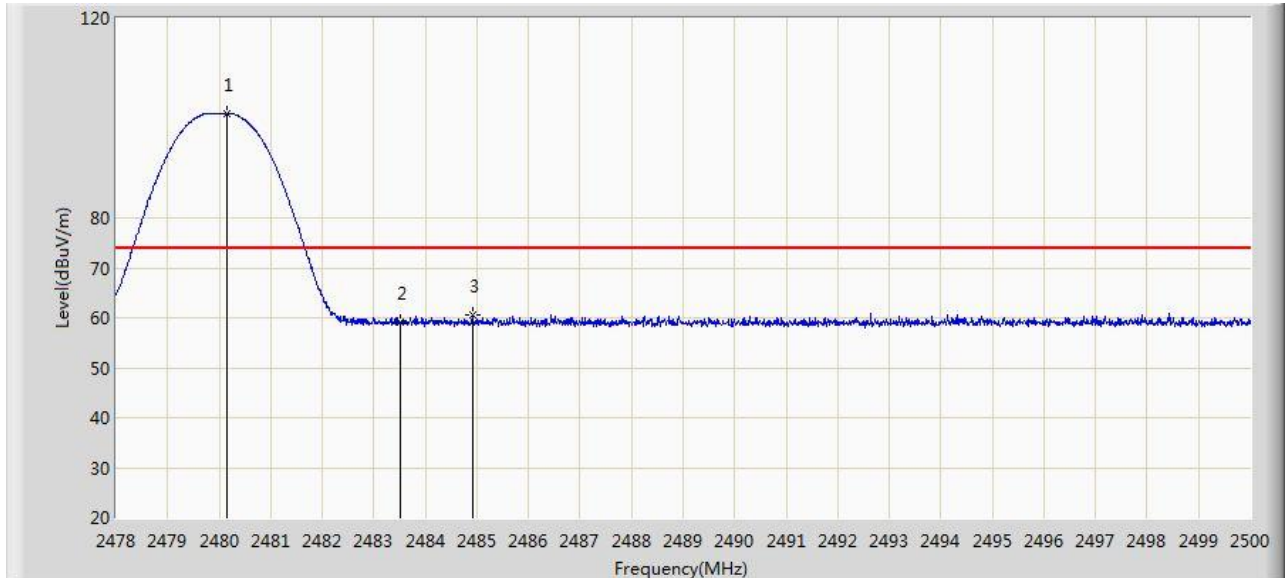
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.871 | 13.593 | -8.129 | 54.000 | 32.278 | AV |
| 2402.008 | 86.902 | 54.628 | N/A | N/A | 32.274 | AV |

Figure 51: Band Edge, TM1, Vertical, PK


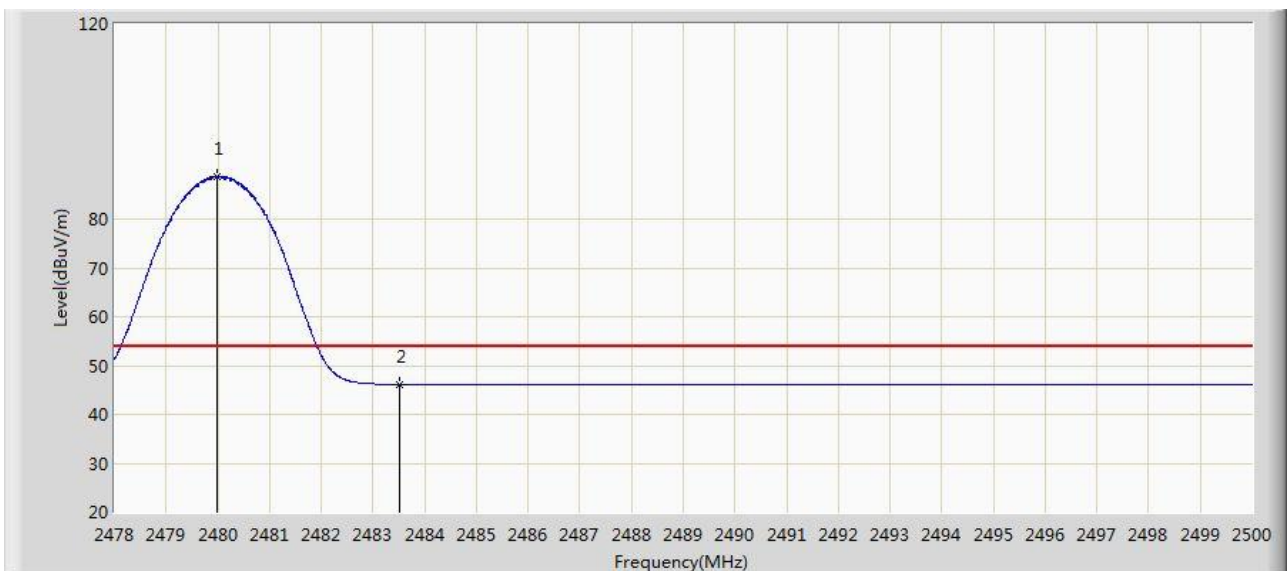
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2347.952 | 60.599 | 28.313 | -13.401 | 74.000 | 32.286 | PK |
| 2390.000 | 58.458 | 26.180 | -15.542 | 74.000 | 32.278 | PK |
| 2402.008 | 94.631 | 62.357 | N/A | N/A | 32.274 | PK |

Figure 52: Band Edge, TM1, Vertical, AV


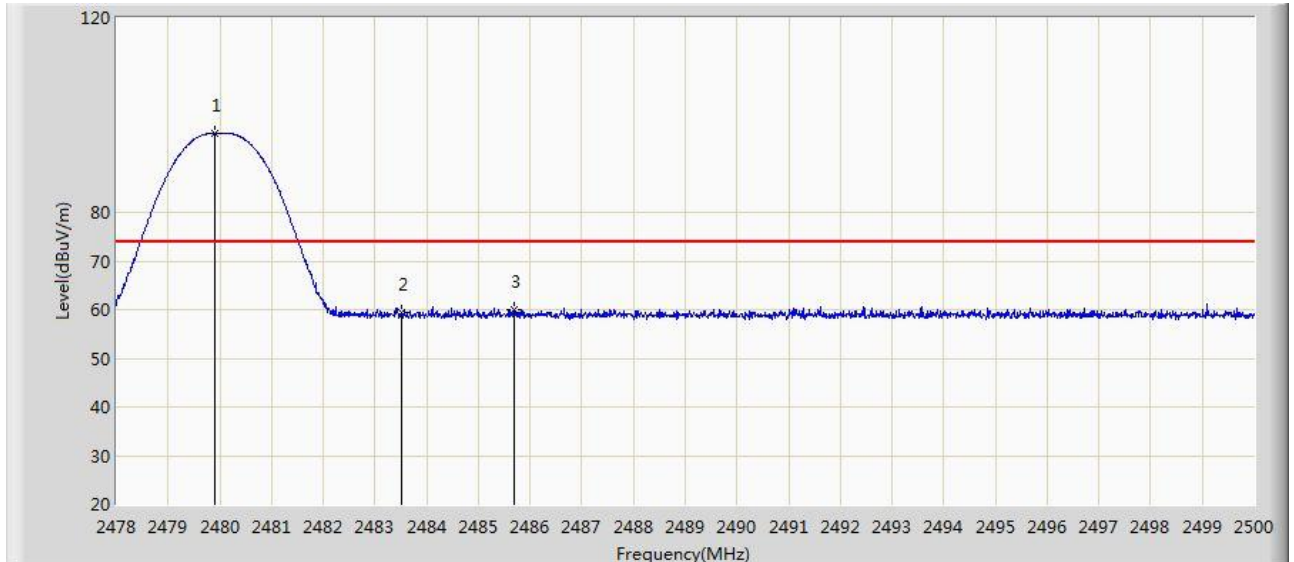
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.899 | 13.621 | -8.101 | 54.000 | 32.278 | AV |
| 2402.055 | 83.781 | 51.507 | N/A | N/A | 32.273 | AV |

Figure 53: Band Edge, TM3, Horizontal, PK


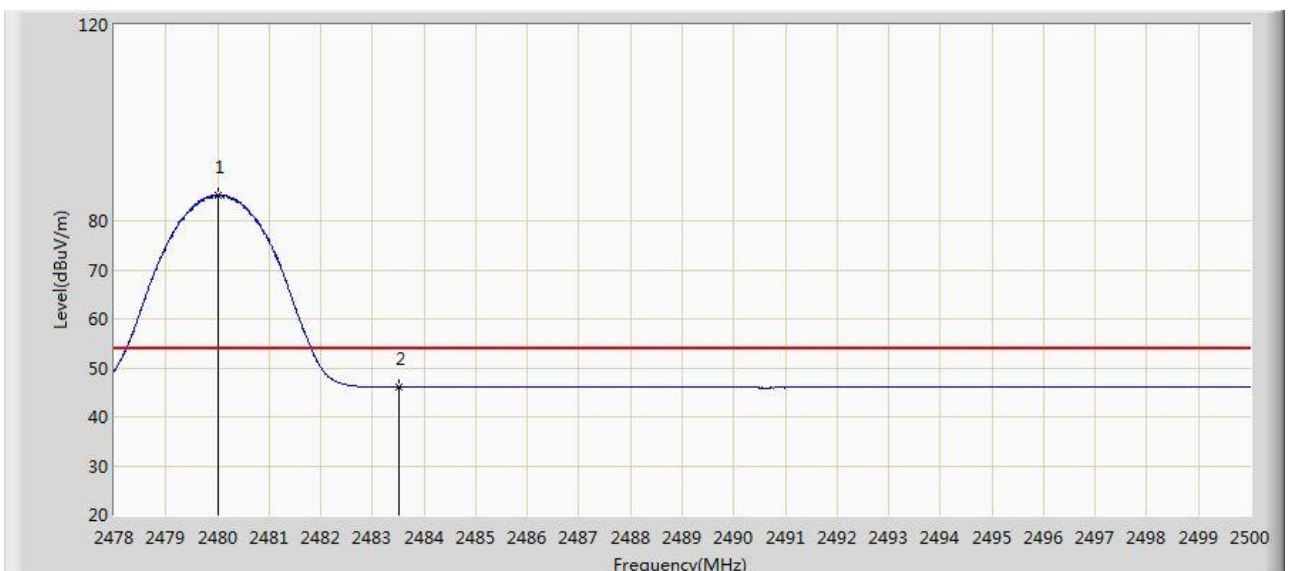
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.156 | 101.002 | 68.732 | N/A | N/A | 32.270 | PK |
| 2483.500 | 59.222 | 26.941 | -14.778 | 74.000 | 32.282 | PK |
| 2484.908 | 60.568 | 28.282 | -13.432 | 74.000 | 32.286 | PK |

Figure 54: Band Edge, TM3, Horizontal, AV


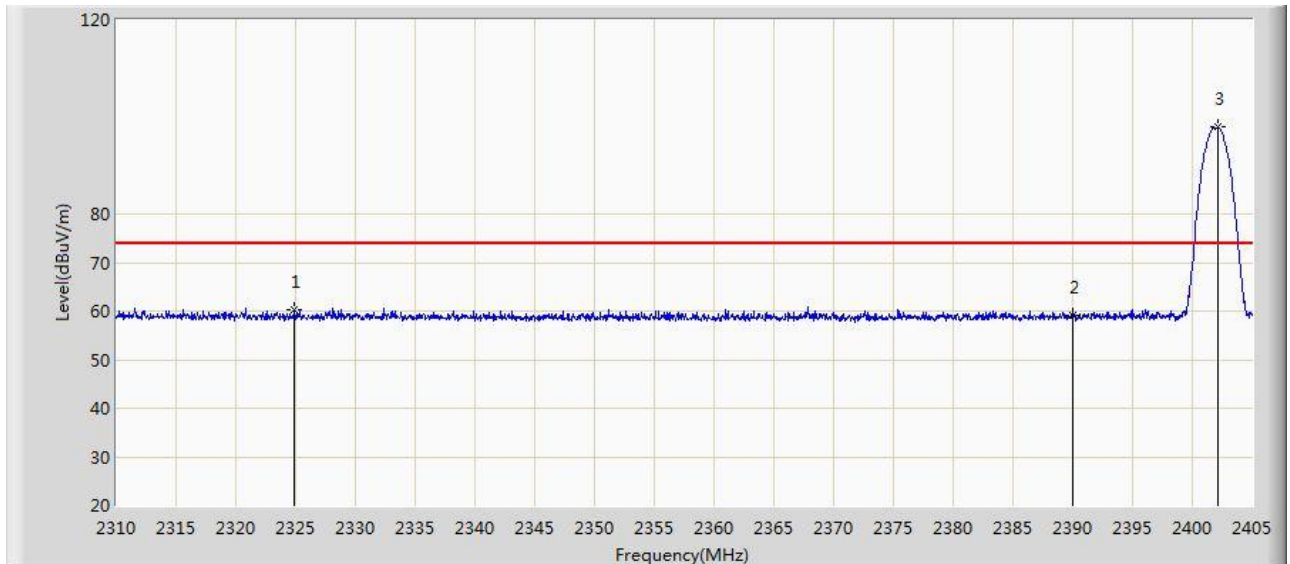
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2479.991 | 88.827 | 56.558 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.117 | 13.836 | -7.883 | 54.000 | 32.282 | AV |

Figure 55: Band Edge, TM3, Vertical, PK


| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2479.914 | 96.216 | 63.947 | N/A | N/A | 32.269 | PK |
| 2483.500 | 59.314 | 27.033 | -14.686 | 74.000 | 32.282 | PK |
| 2485.700 | 60.141 | 27.852 | -13.859 | 74.000 | 32.289 | PK |

Figure 56: Band Edge, TM3, Vertical, AV


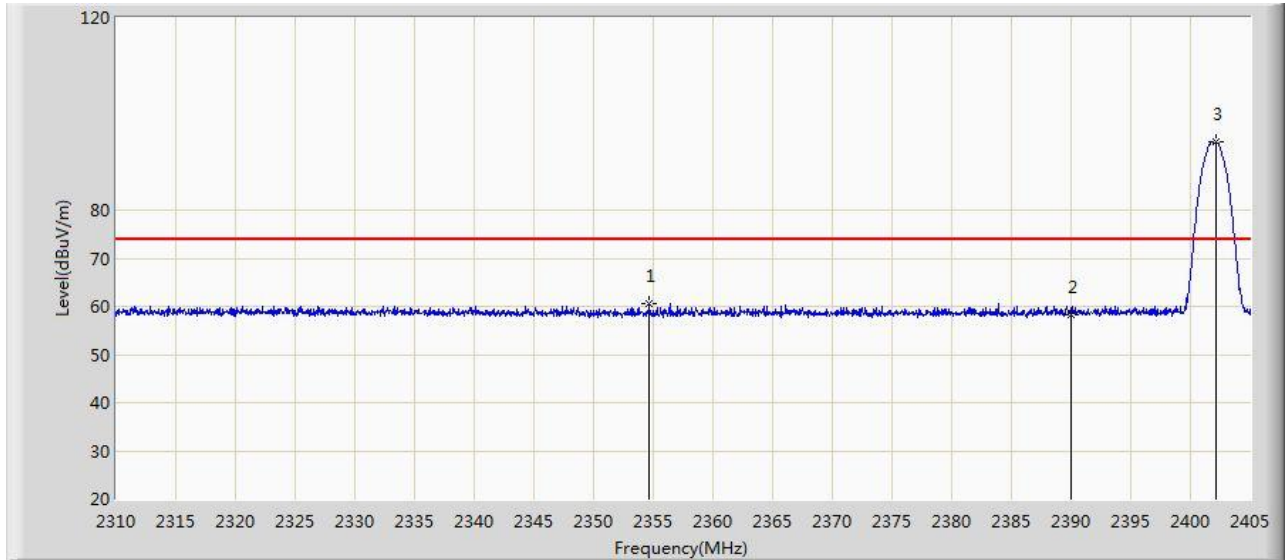
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.002 | 85.310 | 53.041 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.023 | 13.742 | -7.977 | 54.000 | 32.282 | AV |

Figure 57: Band Edge, TM4, Horizontal, PK


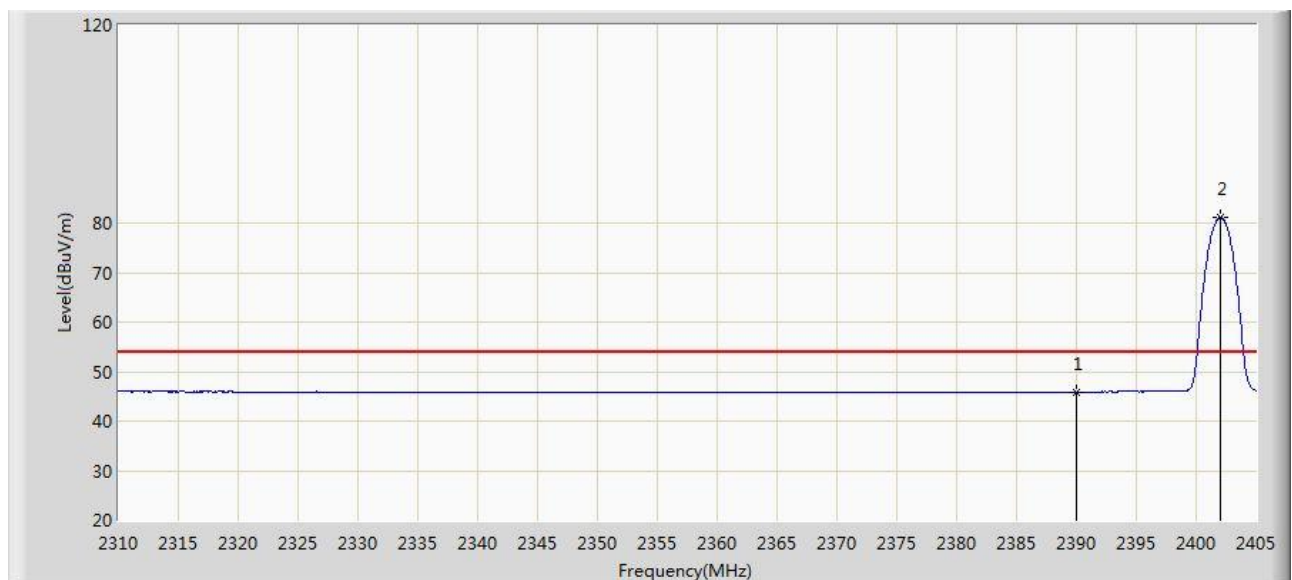
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2324.915 | 60.228 | 27.843 | -13.772 | 74.000 | 32.384 | PK |
| 2390.000 | 59.246 | 26.968 | -14.754 | 74.000 | 32.278 | PK |
| 2402.150 | 97.964 | 65.691 | N/A | N/A | 32.273 | PK |

Figure 58: Band Edge, TM4, Horizontal, AV

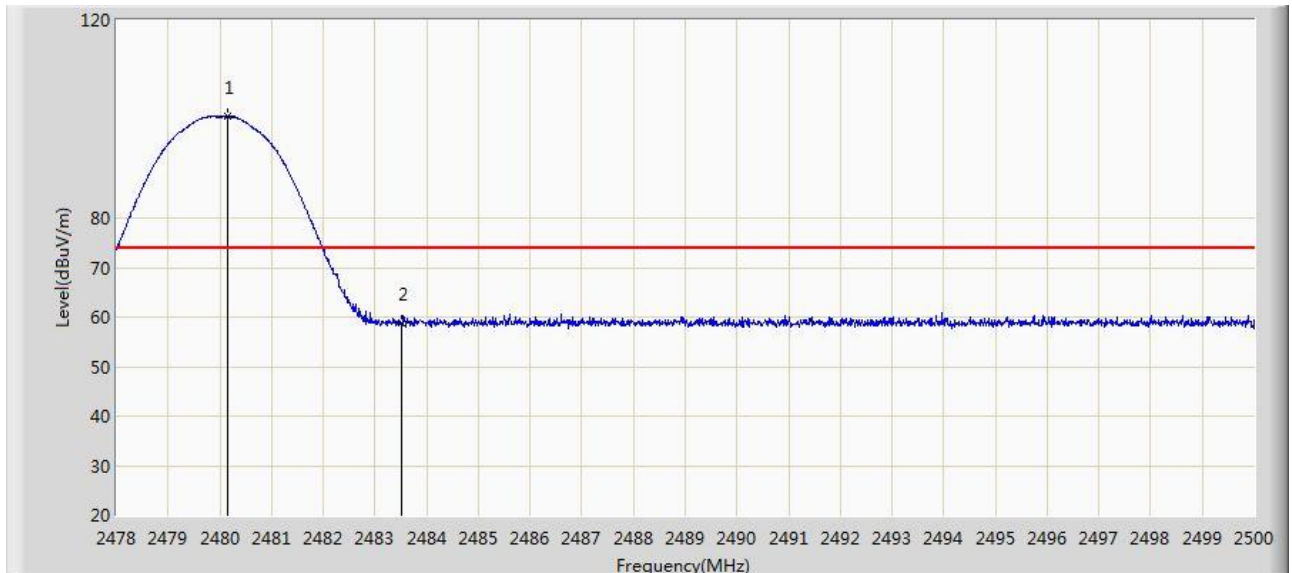

| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.856 | 13.578 | -8.144 | 54.000 | 32.278 | AV |
| 2402.055 | 84.000 | 51.726 | N/A | N/A | 32.273 | AV |

Figure 59: Band Edge, TM4, Vertical, PK


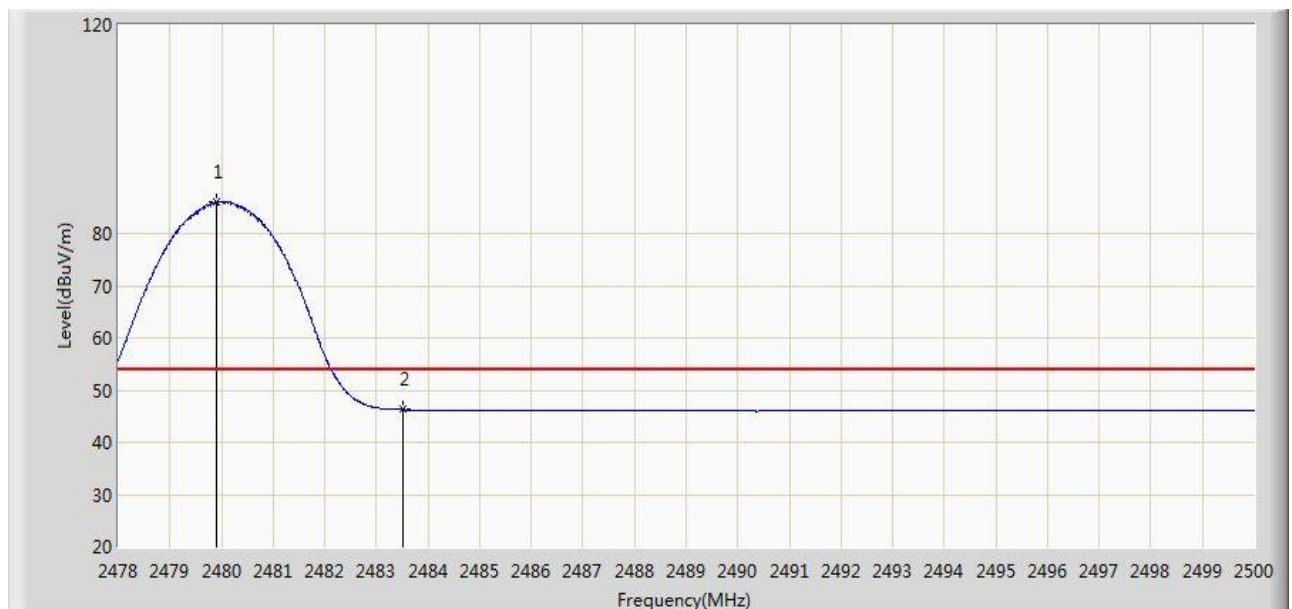
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2354.698 | 60.532 | 28.268 | -13.468 | 74.000 | 32.263 | PK |
| 2390.000 | 58.143 | 25.865 | -15.857 | 74.000 | 32.278 | PK |
| 2402.103 | 94.331 | 62.058 | N/A | N/A | 32.273 | PK |

Figure 60: Band Edge, TM4, Vertical, AV


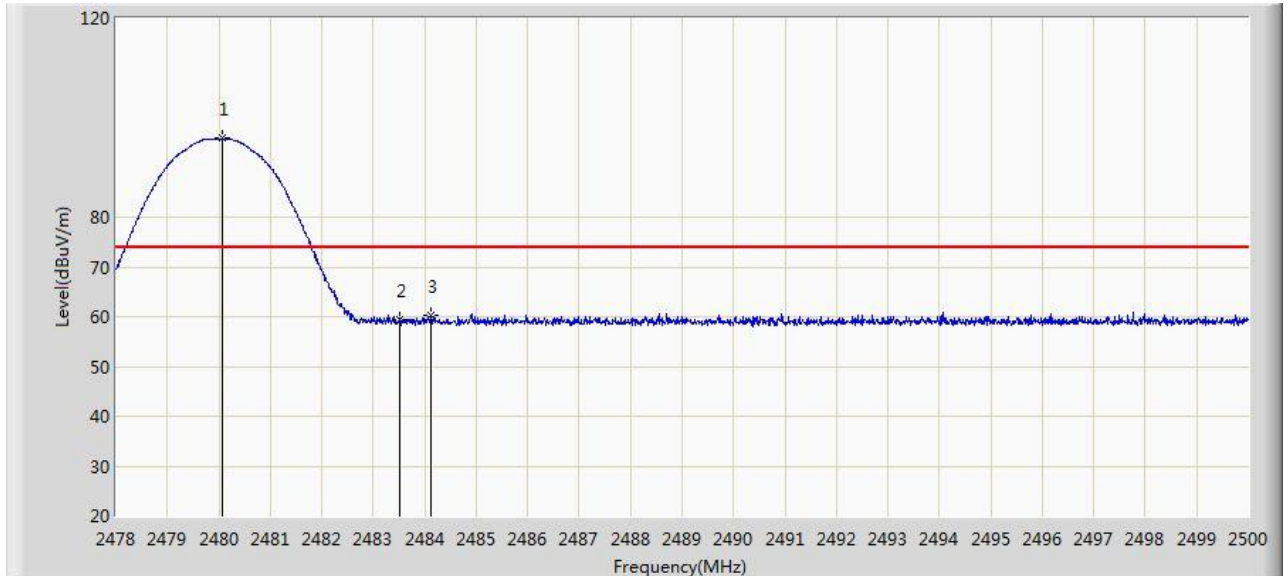
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.901 | 13.623 | -8.099 | 54.000 | 32.278 | AV |
| 2402.008 | 81.280 | 49.006 | N/A | N/A | 32.274 | AV |

Figure 61: Band Edge, TM6, Horizontal, PK


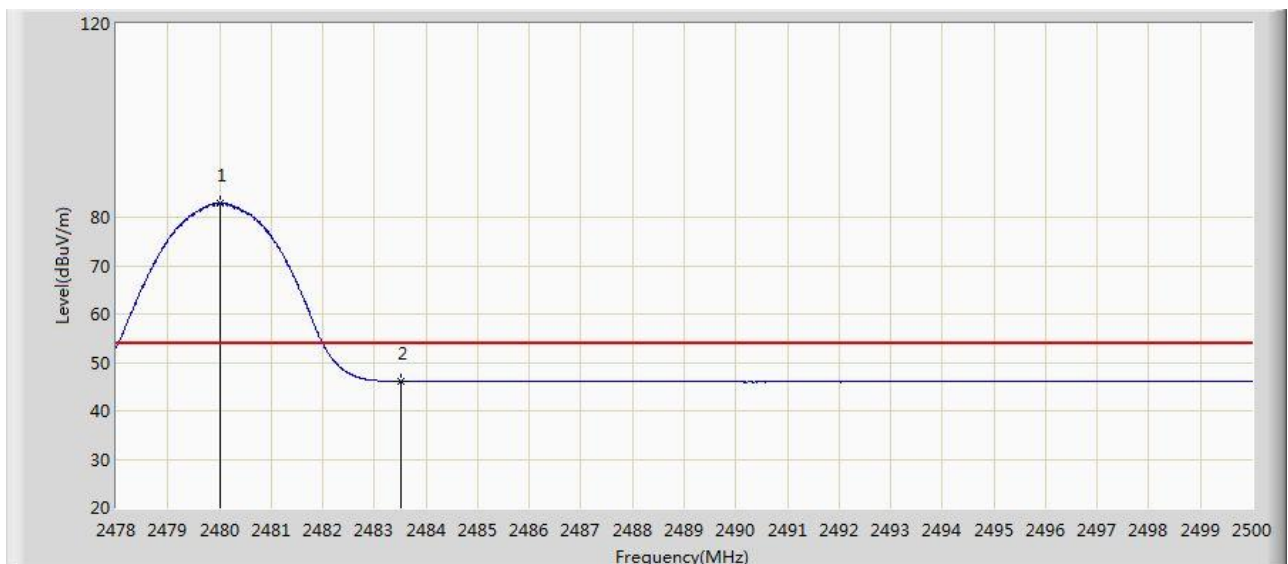
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.156 | 100.655 | 68.385 | N/A | N/A | 32.270 | PK |
| 2483.500 | 58.959 | 26.678 | -15.041 | 74.000 | 32.282 | PK |

Figure 62: Band Edge, TM6, Horizontal, AV


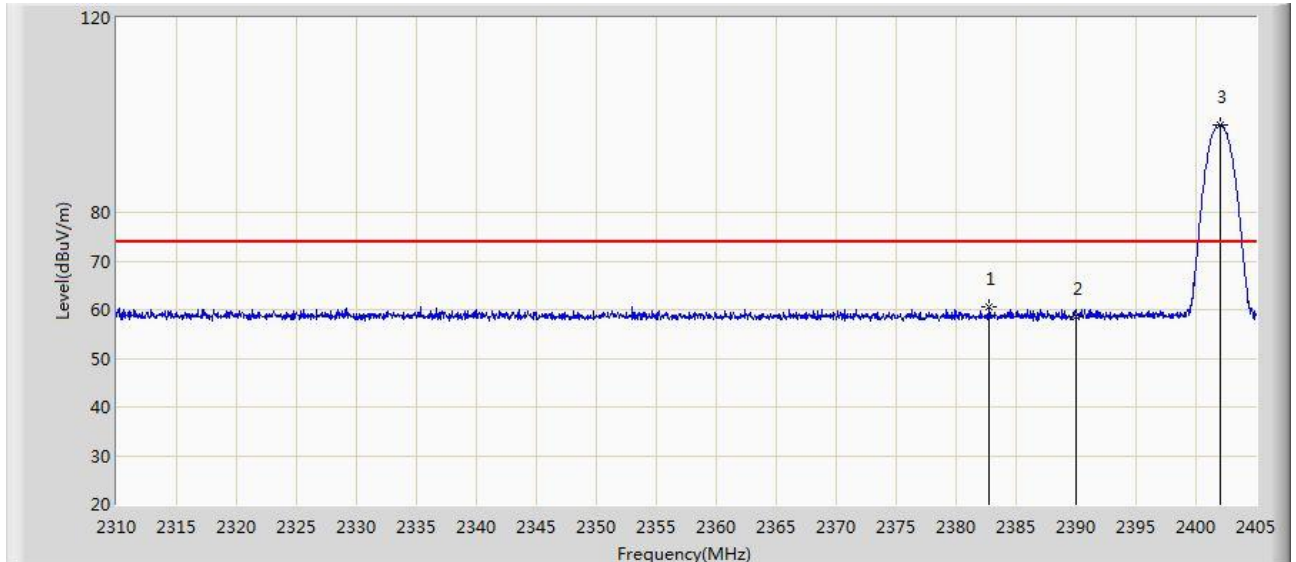
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2479.903 | 86.042 | 53.773 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.253 | 13.972 | -7.747 | 54.000 | 32.282 | AV |

Figure 63: Band Edge, TM6, Vertical, PK


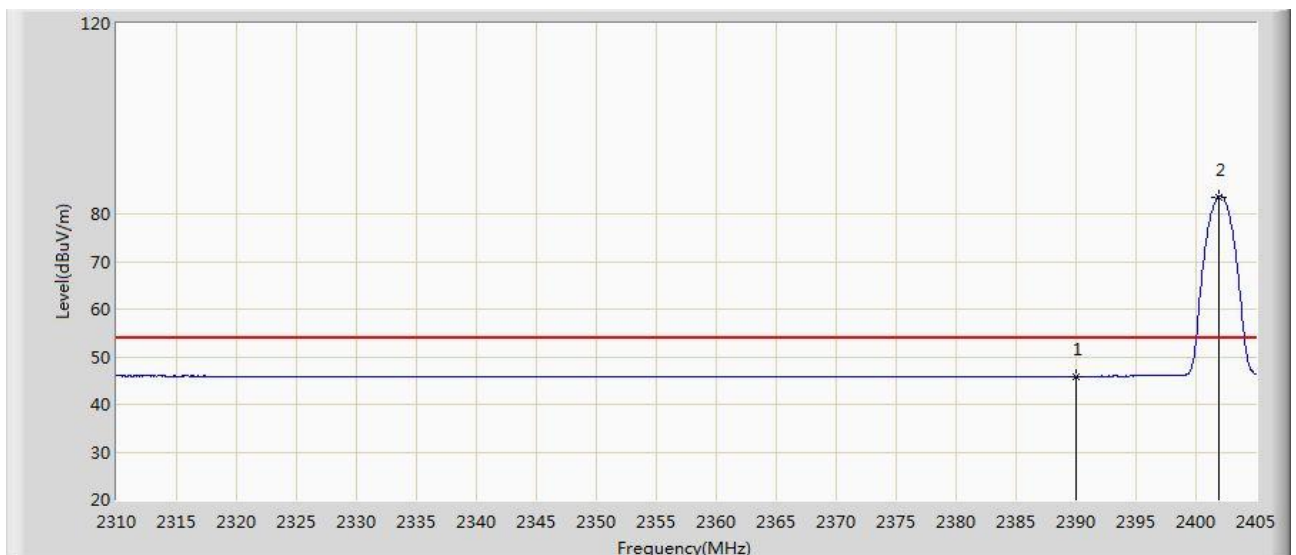
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.079 | 95.846 | 63.577 | N/A | N/A | 32.269 | PK |
| 2483.500 | 59.495 | 27.214 | -14.505 | 74.000 | 32.282 | PK |
| 2484.127 | 60.365 | 28.082 | -13.635 | 74.000 | 32.284 | PK |

Figure 64: Band Edge, TM6, Vertical, AV


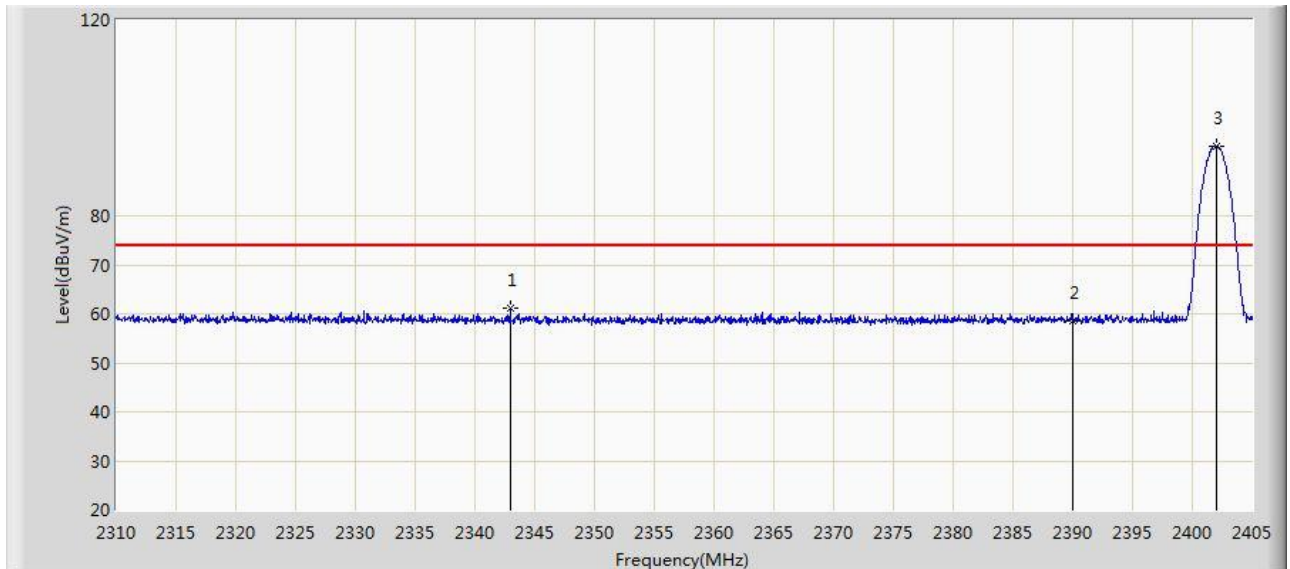
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.024 | 82.880 | 50.611 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.074 | 13.793 | -7.926 | 54.000 | 32.282 | AV |

Figure 65: Band Edge, TM7, Horizontal, PK


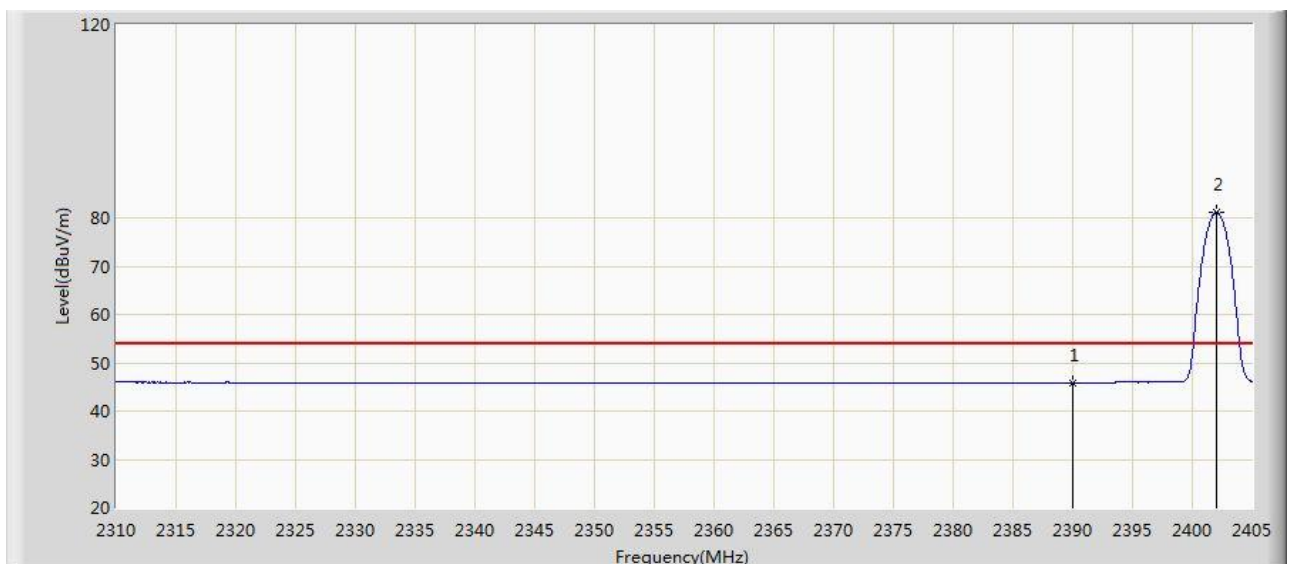
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2382.770 | 60.535 | 28.297 | -13.465 | 74.000 | 32.238 | PK |
| 2390.000 | 58.544 | 26.266 | -15.456 | 74.000 | 32.278 | PK |
| 2402.008 | 98.077 | 65.803 | N/A | N/A | 32.274 | PK |

Figure 66: Band Edge, TM7, Horizontal, AV


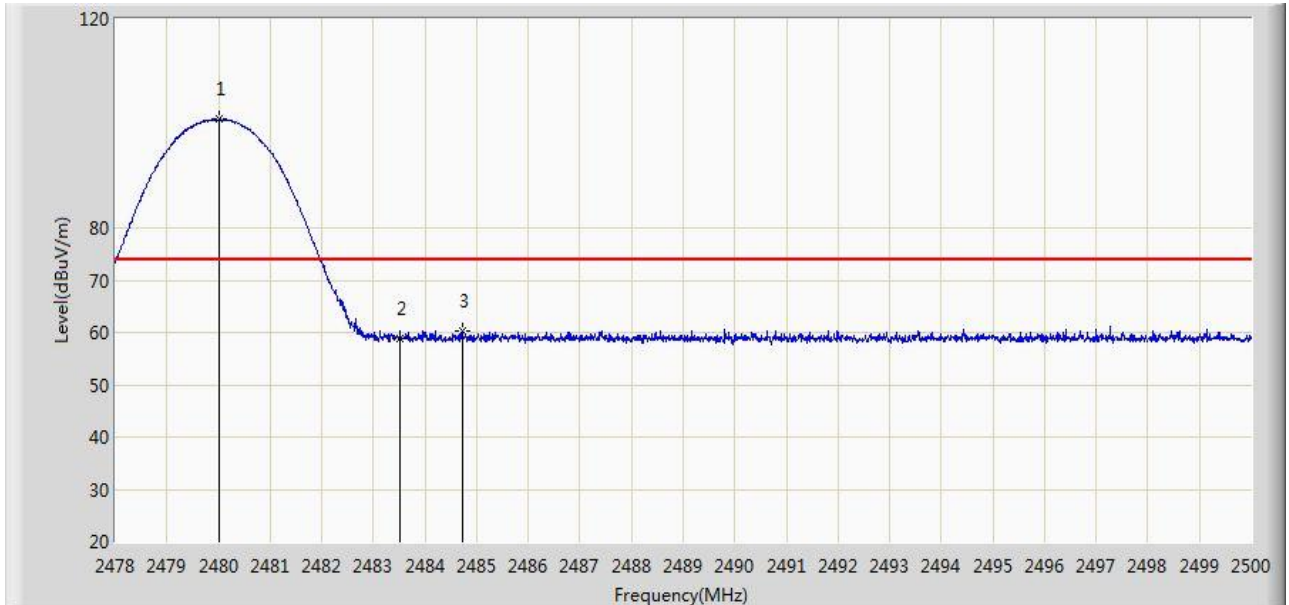
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.871 | 13.593 | -8.129 | 54.000 | 32.278 | AV |
| 2401.865 | 83.577 | 51.303 | N/A | N/A | 32.274 | AV |

Figure 67: Band Edge, TM7, Vertical, PK


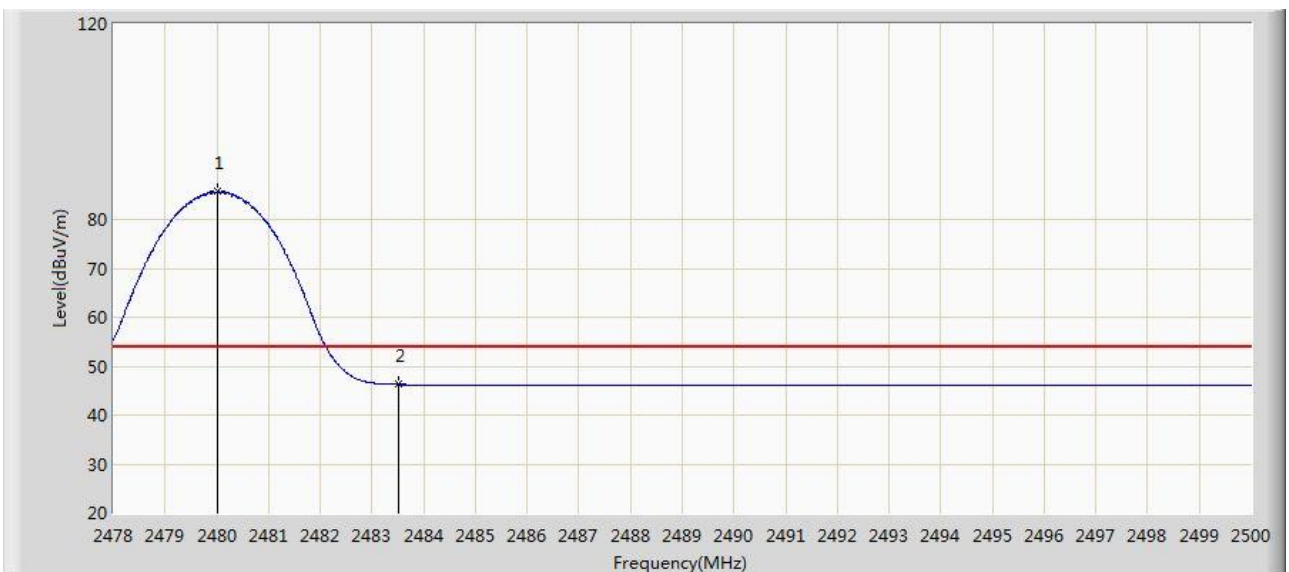
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2342.965 | 61.184 | 28.881 | -12.816 | 74.000 | 32.303 | PK |
| 2390.000 | 58.427 | 26.149 | -15.573 | 74.000 | 32.278 | PK |
| 2402.055 | 94.199 | 61.925 | N/A | N/A | 32.273 | PK |

Figure 68: Band Edge, TM7, Vertical, AV


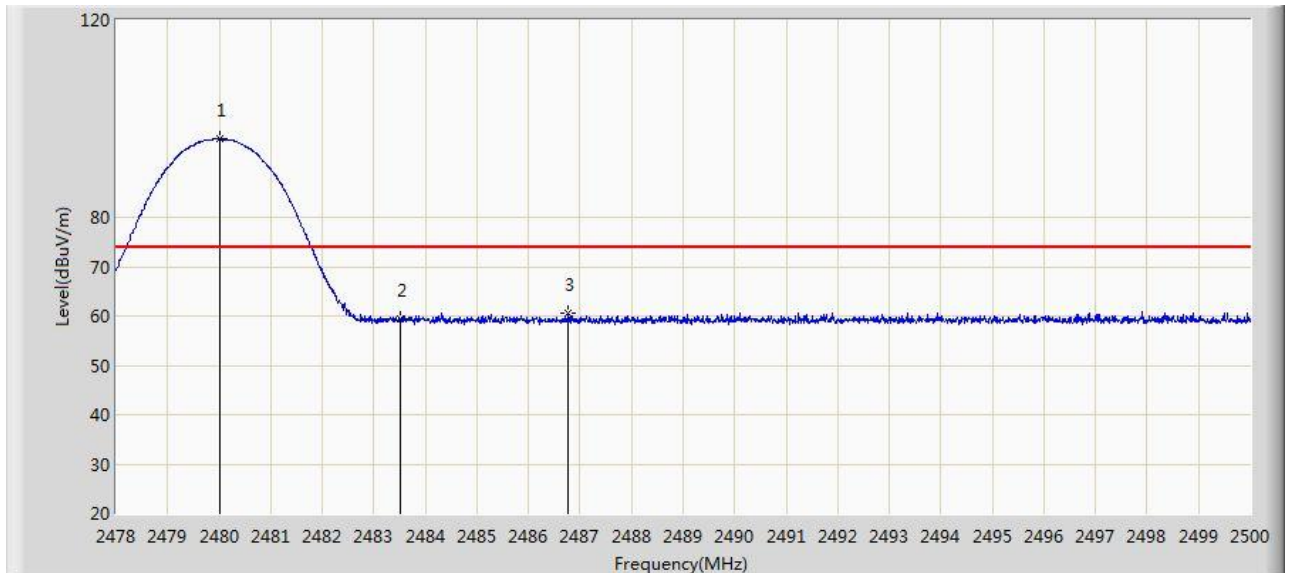
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2390.000 | 45.873 | 13.595 | -8.127 | 54.000 | 32.278 | AV |
| 2402.055 | 81.062 | 48.788 | N/A | N/A | 32.273 | AV |

Figure 69: Band Edge, TM9, Horizontal, PK


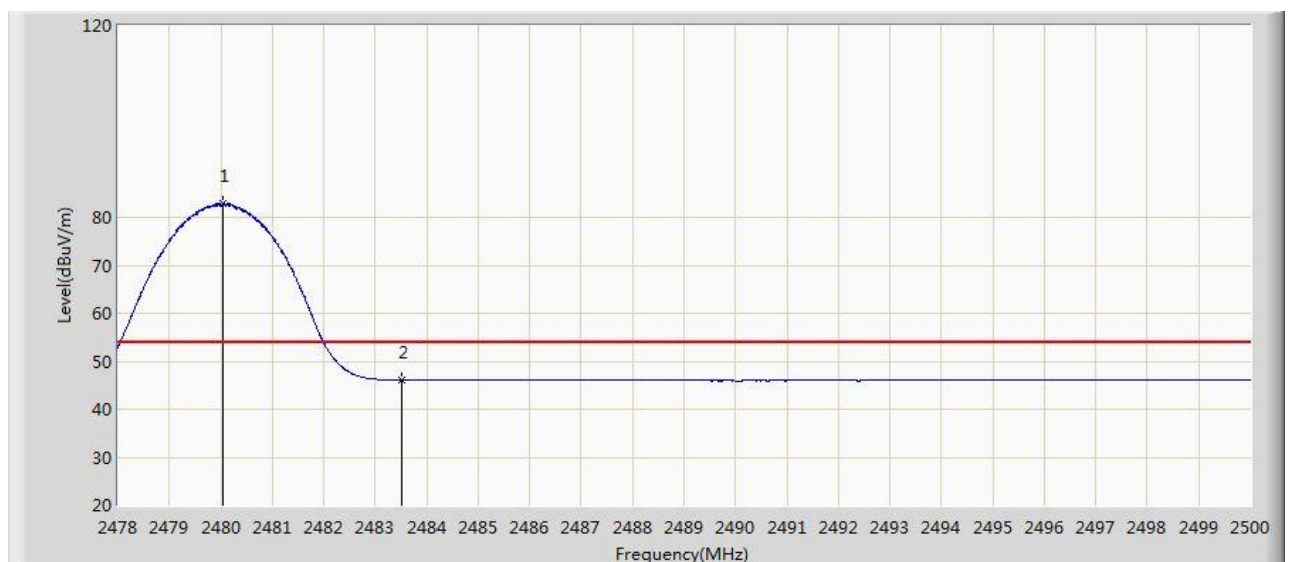
| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.002 | 100.794 | 68.525 | N/A | N/A | 32.269 | PK |
| 2483.500 | 58.776 | 26.495 | -15.224 | 74.000 | 32.282 | PK |
| 2484.721 | 60.228 | 27.943 | -13.772 | 74.000 | 32.286 | PK |

Figure 70: Band Edge, TM9, Horizontal, AV


| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.002 | 85.660 | 53.391 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.260 | 13.979 | -7.740 | 54.000 | 32.282 | AV |

Figure 71: Band Edge, TM9, Vertical, PK


| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.002 | 95.883 | 63.614 | N/A | N/A | 32.269 | PK |
| 2483.500 | 59.358 | 27.077 | -14.642 | 74.000 | 32.282 | PK |
| 2486.778 | 60.608 | 28.315 | -13.392 | 74.000 | 32.293 | PK |

Figure 72: Band Edge, TM9, Vertical, AV


| Frequency [MHz] | Measure Level [dBuV/m] | Reading Level [dBuV] | Over Limit [dB] | Limit [dBuV/m] | Factor [dB] | Type |
|-----------------|------------------------|----------------------|-----------------|----------------|-------------|------|
| 2480.035 | 82.775 | 50.506 | N/A | N/A | 32.269 | AV |
| 2483.500 | 46.114 | 13.833 | -7.886 | 54.000 | 32.282 | AV |

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