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FCC REPORT

Application No. : SZEM1310005771RF
Applicant: Rikon (H.K.) Photographic Equipment Limited
Manufacturer: Shenzhen Rikon Photographic Equipment Factory
Product Name: Professional TTL Flash Trigger
Model No.(EUT): KODY
FCC ID: 2AA8NKODY-N302
Standards: 47 CFR Part 15, Subpart C (2012)
Date of Receipt: 2013-10-25
Date of Test: 2013-11-06 to 2013-11-08
Date of Issue: 2013-11-12

| | |
|---------------------|---------------|
| Test Result: | PASS * |
|---------------------|---------------|

* In the configuration tested, the EUT complied with the standards specified above.

Authorized Signature:



Jack Zhang
EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|------------------------------------------|-----------------------------------------------------|--------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203 | ANSI C63.10 (2009) | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 (2009) | PASS |
| Field Strength of the Fundamental Signal | 47 CFR Part 15, Subpart C Section 15.249 (a) | ANSI C63.10 (2009) | PASS |
| Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.249 (a)/15.209 | ANSI C63.10 (2009) | PASS |
| Band Edge (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.249(a)/15.205 | ANSI C63.10 (2009) | PASS |
| 20dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.215 (c) | ANSI C63.10 (2009) | PASS |



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4 General Information

4.1 Client Information

| | |
|--------------------------|-------------------------------------------------------------------------------------|
| Applicant: | Rikon (H.K.) Photographic Equipment Limited |
| Address of Applicant: | Rm. C, 20/F, Blk 5, Vision City 1 Yeung Uk Road. Hong Kong |
| Manufacturer: | Shenzhen Rikon Photographic Equipment Factory |
| Address of Manufacturer: | 3/F, BLK B, ShuiTian Industry Area, Shiyuan Agency, Baoan District, Shenzhen, China |

4.2 General Description of EUT

| | |
|---------------------|----------------------------------------|
| Name: | Professional TTL Flash Trigger |
| Model No.: | KODY |
| Frequency Range: | 2408 MHz ~ 2471MHz |
| Modulation Type: | FSK |
| Number of Channels: | 15 (declared by the client) |
| Sample Type: | Portable production |
| Antenna Type: | Integral |
| Antenna Gain: | 0dBi |
| Power Supply: | 3.0V DC (1.5V x 2 "AA" Size Batteries) |
| Test Voltage: | DC 3.0V |



| Operation Frequency each of channel | |
|-------------------------------------|-----------|
| Channel | Frequency |
| 1CH | 2408.0MHz |
| 2CH | 2412.5MHz |
| 3CH | 2417.0MHz |
| 4CH | 2421.5MHz |
| 5CH | 2426.0MHz |
| 6CH | 2430.5MHz |
| 7CH | 2435.0MHz |
| 8CH | 2439.5MHz |
| 9CH | 2444.0MHz |
| 10CH | 2448.5MHz |
| 11CH | 2453.5MHz |
| 12CH | 2457.5MHz |
| 13CH | 2462.0MHz |
| 14CH | 2466.5MHz |
| 15CH | 2471.0MHz |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------------|-----------|
| The Lowest channel(CH1) | 2408.0MHz |
| The Middle channel(CH8) | 2439.5MHz |
| The Highest channel(CH15) | 2471.0MHz |



4.3 Test Environment and Mode

| Operating Environment: | |
|------------------------|----------------------------------------------------------------------------------------|
| Temperature: | 22.0 °C |
| Humidity: | 53 % RH |
| Atmospheric Pressure: | 1015 mbar |
| Test mode: | |
| Transmitting mode: | The EUT transmitted the continuous modulation test signal at the specific channel(s) . |

4.4 Description of Support Units

The EUT has been tested independent unit.

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,
No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China.
518057.

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



4.6 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

- **CNAS (No. CNAS L2929)**

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **VCCI**

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

- **FCC – Registration No.: 556682**

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 556682.

- **Industry Canada (IC)**

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



4.10 Equipment List

| Conducted Emission | | | | | |
|--------------------|---------------------------------|------------------------------------|-----------------|---------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2014-06-10 |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2014-10-24 |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 2014-05-16 |
| 4 | 8 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T8-02 | SEL0162 | 2014-11-10 |
| 5 | 4 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T4-02 | SEL0163 | 2014-11-10 |
| 6 | 2 Line ISN | Fischer Custom Communications Inc. | FCC-TLISN-T2-02 | SEL0164 | 2014-11-10 |
| 7 | EMI Test Receiver | Rohde & Schwarz | ESC1 | SEL0022 | 2014-05-16 |
| 8 | Coaxial Cable | SGS | N/A | SEL0025 | 2014-05-29 |
| 9 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 10 | Humidity/ Temperature Indicator | Shanghai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 |
| 11 | Barometer | Chang Chun | DYM3 | SEL0088 | 2014-05-24 |

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| RE in Chamber | | | | | |
|----------------------|---------------------------------|------------------------------------|------------------|----------------------|----------------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2014-06-10 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 2014-05-16 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2014-10-24 |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2014-10-24 |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2014-10-24 |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2014-05-16 |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2014-10-24 |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2014-05-29 |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2014-05-29 |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2014-05-29 |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2014-05-29 |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2014-05-16 |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2014-05-24 |
| 15 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 16 | Humidity/ Temperature Indicator | Shanghai Qixiang | ZJ1-2B | SEL0103 | 2014-10-24 |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2014-05-16 |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2014-10-24 |
| 19 | Loop Antenna | Beijing Daze | ZN30401 | SEL0203 | 2014-06-04 |

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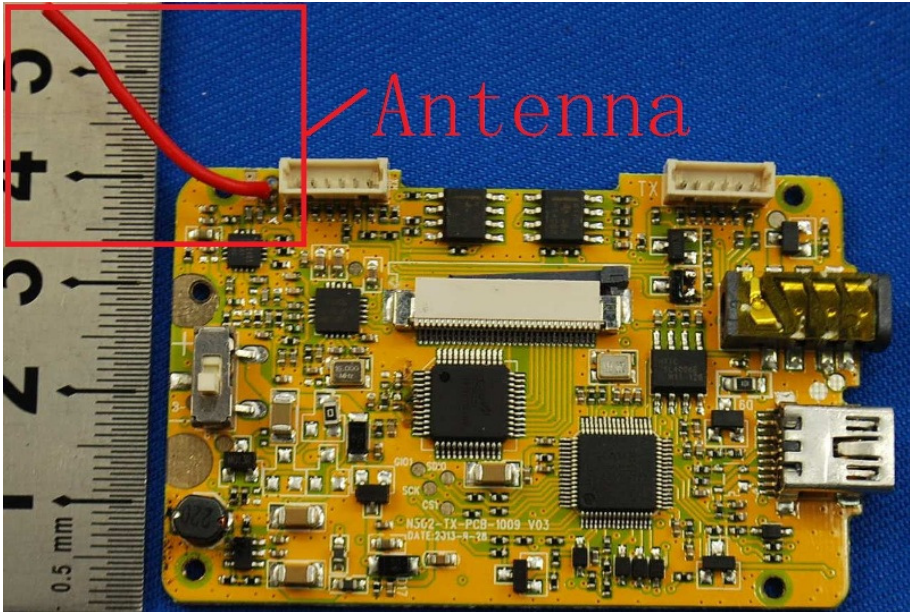
| RF connected test | | | | | |
|-------------------|------------------------------------|----------------------|-----------|---------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2014-10-24 |
| 2 | Humidity/ Temperature Indicator | HYGRO | ZJ1-2B | SEL0033 | 2014-10-24 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEL0154 | 2014-10-24 |
| 4 | Coaxial cable | SGS | N/A | SEL0178 | 2014-05-29 |
| 5 | Coaxial cable | SGS | N/A | SEL0179 | 2014-05-29 |
| 6 | Barometer | ChangChun | DYM3 | SEL0088 | 2014-05-24 |
| 7 | Signal Generator | Rohde & Schwarz | SML03 | SEL0068 | 2014-05-16 |
| 8 | Band filter | amideon | 82346 | SEL0094 | 2014-05-16 |
| 9 | POWER METER | R & S | NRVS | SEL0144 | 2014-10-24 |
| 10 | Attenuator | Beijin feihang taida | TST-2-6dB | SEL0205 | 2014-05-16 |
| 11 | Power Divider(splitter) | Agilent Technologies | 11636B | SEL0130 | 2014-10-24 |

Note: The calibration interval is one year, all the instruments are valid.

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5 Test results and Measurement Data

5.1 Antenna Requirement

| | |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| Standard requirement: | 47 CFR Part 15C Section 15.203 |
| <p>15.203 requirement:</p> <p>An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.</p> | |
| EUT Antenna: | |
| <p>The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.</p>  | |





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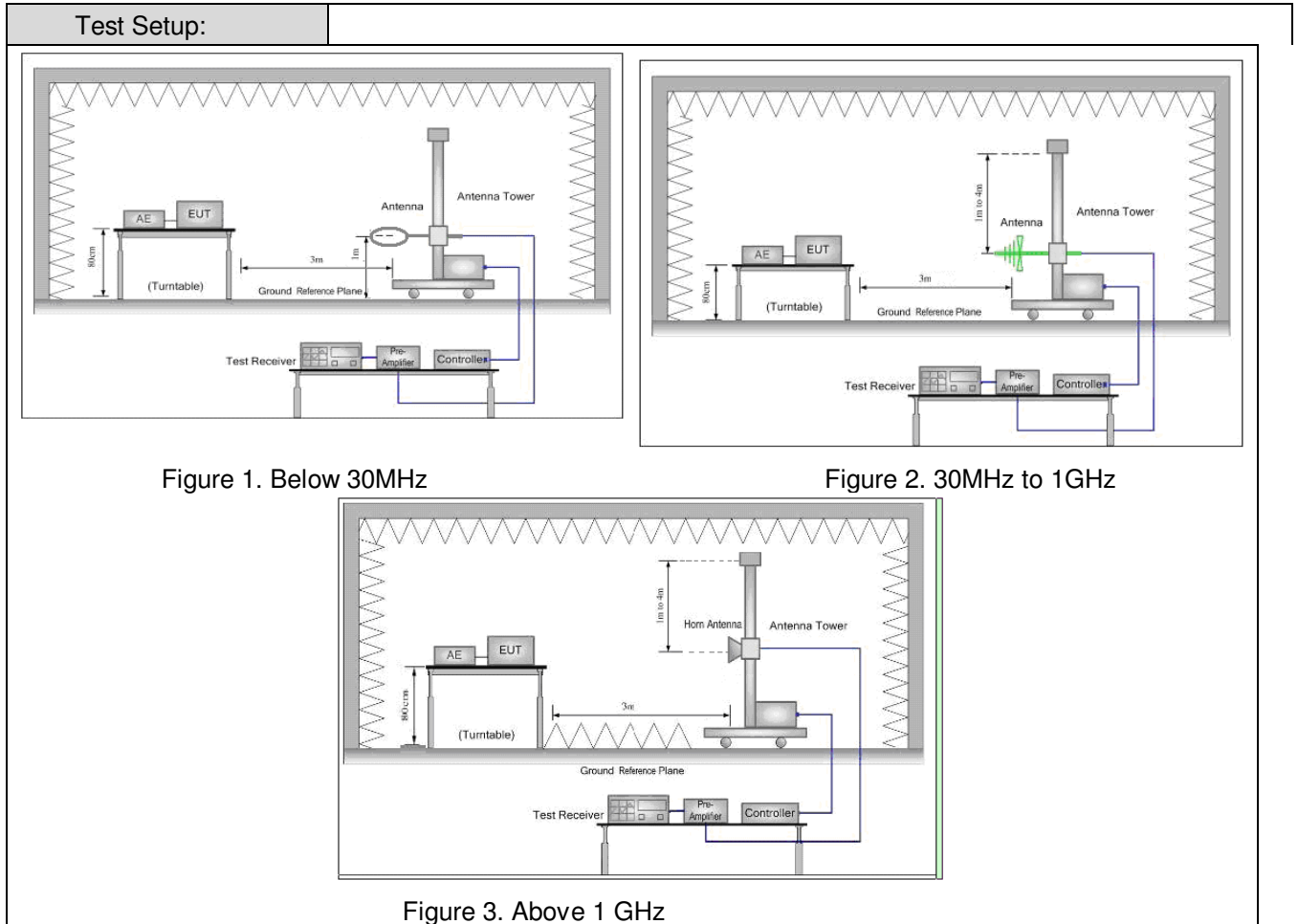
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5.2 Radiated Spurious Emissions

| | | | | | |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|-------------------------------------|-------------------|---------------|-----------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.249 and 15.209 | | | | |
| Test Method: | ANSI C63.10: 2009 | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| | 0.009MHz-0.090MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.009MHz-0.090MHz | Average | 10kHz | 30kHz | Average |
| | 0.090MHz-0.110MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 0.110MHz-0.490MHz | Peak | 10kHz | 30kHz | Peak |
| | 0.110MHz-0.490MHz | Average | 10kHz | 30kHz | Average |
| | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | 30MHz-1GHz | Quasi-peak | 100 kHz | 300kHz | Quasi-peak |
| | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| | Peak | 1MHz | 10Hz | Average | |
| Limit: (Spurious Emissions) | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | - | 30 |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| | Above 1GHz | 500 | 54.0 | Average | 3 |
| Note: 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device. | | | | | |
| Limit: (Field strength of the fundamental signal) | Frequency | Limit (dBuV/m @3m) | | Remark | |
| | 2400MHz-2483.5MHz | 94.0 | | Average Value | |
| | | 114.0 | | Peak Value | |

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| Test Procedure: | |
|-----------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <ol style="list-style-type: none"> a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. If the emission level of the EUT in peak mode was 10dB lower than the |

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| | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | <p>limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.</p> <p>g. Test the EUT in the lowest channel,the middle channel,the Highest channel</p> <p>h. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.</p> <p>i. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | Transmitter mode |
| Instruments Used: | Refer to section 4.10 for details |
| Test Results: | Pass |



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Measurement Data

5.2.1.1 Field Strength Of The Fundamental Signal

Peak value:

| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
|-----------------|-----------------|-----------------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|
| 2407.920 | 2.99 | 32.54 | 39.86 | 89.12 | 84.79 | 114 | -29.21 | Horizontal |
| 2407.960 | 2.99 | 32.54 | 39.86 | 93.13 | 88.80 | 114 | -25.20 | Vertical |
| 2439.452 | 3.01 | 32.61 | 39.89 | 87.77 | 83.50 | 114 | -30.50 | Horizontal |
| 2439.428 | 3.01 | 32.61 | 39.89 | 91.42 | 87.15 | 114 | -26.85 | Vertical |
| 2470.928 | 3.02 | 32.67 | 39.91 | 86.84 | 82.62 | 114 | -31.38 | Horizontal |
| 2470.928 | 3.02 | 32.67 | 39.91 | 90.65 | 86.43 | 114 | -27.57 | Vertical |

Remark:

As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

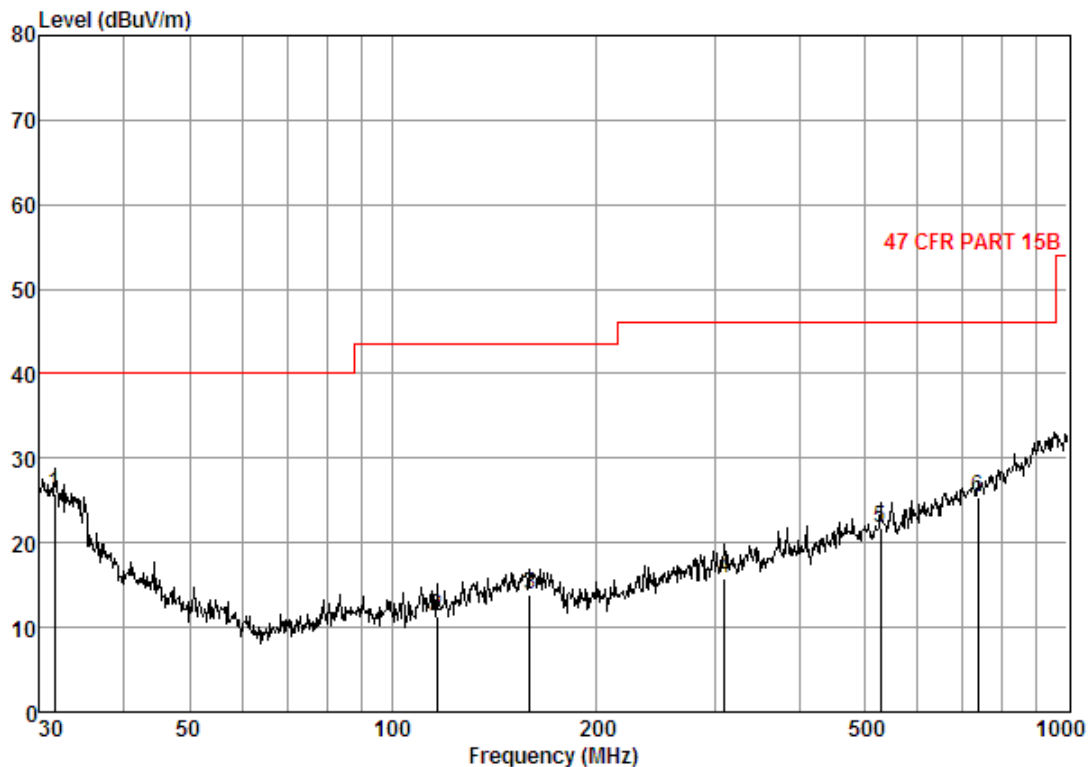
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5.2.1.2 Spurious Emissions

| 30MHz~1GHz | |
|------------|--------------|
| Test mode: | Transmitting |

QP value:
Vertical:



Condition: 47 CFR PART 15B 3m 3142C VERTICAL

Job No. : 5771RF

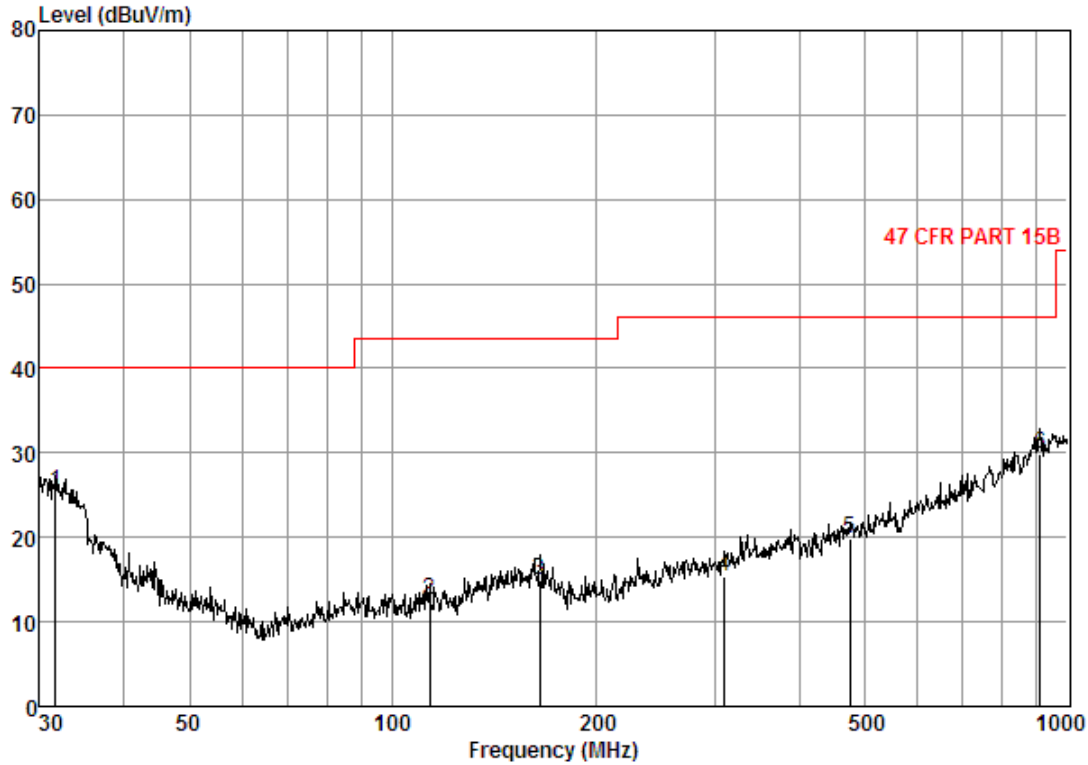
Mode : TX mode

| | Freq | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit |
|---|--------|------------|----------------|---------------|------------|-------------|------------|------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 31.51 | 0.67 | 21.73 | 25.69 | 29.19 | 25.90 | 40.00 | -14.10 |
| 2 | 116.13 | 1.56 | 7.54 | 25.64 | 27.78 | 11.24 | 43.50 | -32.26 |
| 3 | 159.78 | 1.93 | 9.50 | 25.60 | 27.96 | 13.79 | 43.50 | -29.71 |
| 4 | 310.00 | 2.82 | 9.90 | 24.75 | 27.83 | 15.80 | 46.00 | -30.20 |
| 5 | 528.25 | 3.88 | 14.18 | 26.29 | 29.98 | 21.75 | 46.00 | -24.25 |
| 6 | 737.07 | 4.64 | 17.53 | 26.31 | 29.47 | 25.33 | 46.00 | -20.67 |

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Horizontal:



Condition: 47 CFR PART 15B 3m 3142C HORIZONTAL
 Job No. : 5771RF
 Mode : TX mode

| | Freq | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Limit |
|---|--------|------------|----------------|---------------|------------|-------------|--------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dB |
| 1 | 31.62 | 0.67 | 21.65 | 25.69 | 28.67 | 25.30 | 40.00 -14.70 |
| 2 | 113.32 | 1.52 | 7.53 | 25.48 | 29.03 | 12.60 | 43.50 -30.90 |
| 3 | 164.91 | 1.94 | 9.50 | 25.28 | 28.75 | 14.91 | 43.50 -28.59 |
| 4 | 310.00 | 2.82 | 9.90 | 24.75 | 27.35 | 15.32 | 46.00 -30.68 |
| 5 | 475.50 | 3.59 | 13.30 | 25.74 | 28.64 | 19.79 | 46.00 -26.21 |
| 6 | 909.67 | 5.61 | 20.30 | 26.02 | 30.00 | 29.89 | 46.00 -16.11 |

Remark: Through Pre-scan, find the low channel is the worst case of low, middle and high channel, So only the low channel data were shown in the report.

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| Above 1GHz | | | | | | | | | |
|-----------------|-----------------|-----------------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|------|
| Test mode: | | Transmitting | | Test channel: | | Lowest | | Remark: | Peak |
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2980.327 | 5.05 | 33.35 | 40.28 | 46.80 | 44.92 | 74 | -29.08 | Vertical | |
| 3873.749 | 6.28 | 33.66 | 40.94 | 47.96 | 46.96 | 74 | -27.04 | Vertical | |
| 4816.000 | 7.45 | 34.70 | 41.64 | 46.97 | 47.48 | 74 | -26.52 | Vertical | |
| 7224.000 | 8.74 | 35.89 | 39.85 | 47.79 | 52.57 | 74 | -21.43 | Vertical | |
| 9632.000 | 9.68 | 37.34 | 37.78 | 42.18 | 51.42 | 74 | -22.58 | Vertical | |
| 12303.620 | 11.41 | 39.21 | 38.40 | 40.20 | 52.42 | 74 | -21.58 | Horizontal | |
| 2905.419 | 4.98 | 33.26 | 40.23 | 46.65 | 44.66 | 74 | -29.34 | Horizontal | |
| 3786.010 | 6.16 | 33.55 | 40.88 | 46.74 | 45.57 | 74 | -28.43 | Horizontal | |
| 4816.000 | 7.45 | 34.70 | 41.64 | 47.28 | 47.79 | 74 | -26.21 | Horizontal | |
| 7224.000 | 8.74 | 35.89 | 39.85 | 47.05 | 51.83 | 74 | -22.17 | Horizontal | |

| Test mode: | | Transmitting | | Test channel: | | Middle | | Remark: | Peak |
|-----------------|-----------------|-----------------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | |
| 2987.923 | 5.05 | 33.38 | 40.30 | 47.00 | 45.13 | 74 | -28.87 | Vertical | |
| 3863.900 | 6.28 | 33.63 | 40.94 | 46.64 | 45.61 | 74 | -28.39 | Vertical | |
| 4879.000 | 7.48 | 34.59 | 41.68 | 46.98 | 47.37 | 74 | -26.63 | Vertical | |
| 7318.500 | 8.87 | 35.93 | 39.77 | 47.63 | 52.66 | 74 | -21.34 | Vertical | |
| 9758.000 | 9.74 | 37.46 | 37.66 | 42.62 | 52.16 | 74 | -21.84 | Vertical | |
| 12241.140 | 11.38 | 39.14 | 38.38 | 40.77 | 52.91 | 74 | -21.09 | Horizontal | |
| 2957.654 | 5.02 | 33.33 | 40.27 | 46.81 | 44.89 | 74 | -29.11 | Horizontal | |
| 3834.506 | 6.23 | 33.61 | 40.91 | 47.32 | 46.25 | 74 | -27.75 | Horizontal | |
| 4879.000 | 7.48 | 34.59 | 41.68 | 47.65 | 48.04 | 74 | -25.96 | Horizontal | |
| 7318.500 | 8.87 | 35.93 | 39.77 | 46.99 | 52.02 | 74 | -21.98 | Horizontal | |

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| Test mode: | | Transmitting | | Test channel: | | Highest | | Remark: | | Peak |
|-----------------|-----------------|-----------------------|--------------------|-------------------|----------------|---------------------|-----------------|--------------|--|------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization | | |
| 2987.923 | 5.05 | 33.38 | 40.30 | 47.31 | 45.44 | 74 | -28.56 | Vertical | | |
| 3786.010 | 6.16 | 33.55 | 40.88 | 47.24 | 46.07 | 74 | -27.93 | Vertical | | |
| 4942.000 | 7.52 | 34.48 | 41.72 | 48.22 | 48.50 | 74 | -25.50 | Vertical | | |
| 7413.000 | 8.99 | 35.97 | 39.69 | 46.94 | 52.21 | 74 | -21.79 | Vertical | | |
| 9884.000 | 9.80 | 37.60 | 37.55 | 42.08 | 51.93 | 74 | -22.07 | Vertical | | |
| 12461.220 | 11.47 | 39.37 | 38.47 | 39.64 | 52.01 | 74 | -21.99 | Horizontal | | |
| 3080.601 | 5.17 | 33.37 | 40.37 | 47.46 | 45.63 | 74 | -28.37 | Horizontal | | |
| 3728.625 | 6.08 | 33.49 | 40.84 | 48.31 | 47.04 | 74 | -26.96 | Horizontal | | |
| 4942.000 | 7.52 | 34.48 | 41.72 | 46.85 | 47.13 | 74 | -26.87 | Horizontal | | |
| 7413.000 | 8.99 | 35.97 | 39.69 | 46.84 | 52.11 | 74 | -21.89 | Horizontal | | |

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

2) Scan from 9kHz to 25GHz, The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

5.3 Band Edge (Radiated Emission)

| | | |
|-------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | |
| Test Method: | ANSI C63.10: 2009 | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | |
| Limit(band edge): | Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in Section 15.209, whichever is the lesser attenuation. | |
| | Frequency | Limit (dBuV/m @3m) Remark |
| | 30MHz-88MHz | 40.0 Quasi-peak Value |
| | 88MHz-216MHz | 43.5 Quasi-peak Value |
| | 216MHz-960MHz | 46.0 Quasi-peak Value |
| | Above 1GHz | 54.0 Average Value |
| 74.0 Peak Value | | |
| Test Setup: | | |

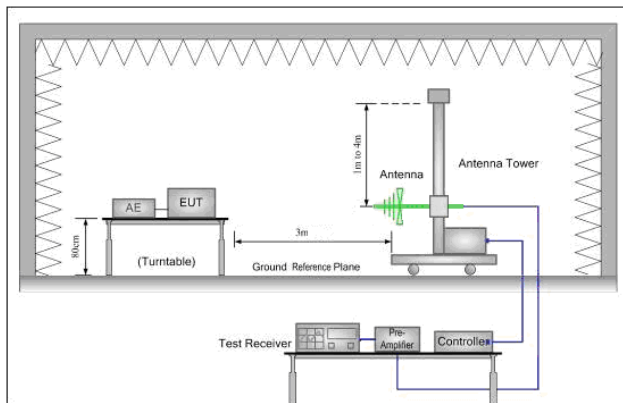


Figure 1. 30MHz to 1GHz

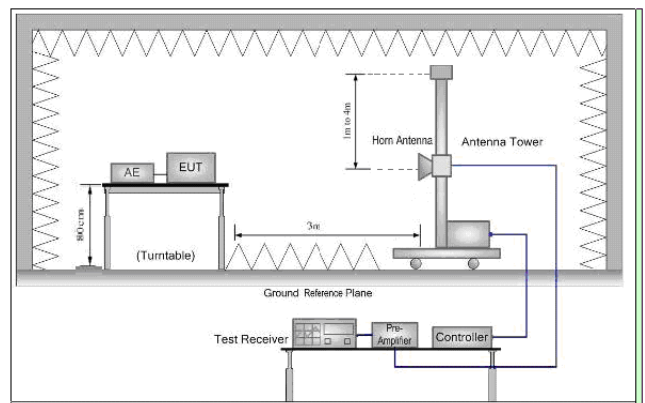


Figure 2. Above 1 GHz



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| | |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Procedure: | <ol style="list-style-type: none">a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channelg. Test the EUT in the lowest channel , the Highest channelh. The radiation measurements are performed in X, Y, Z axis positioning. And found the X axis positioning which it is worse case, Only the test worst case mode is recorded in the report.i. Repeat above procedures until all frequencies measured was complete. |
| Exploratory Test Mode : | Transmitter mode |
| Instruments Used: | Refer to section 4.10 for details |
| Test Results: | Pass |

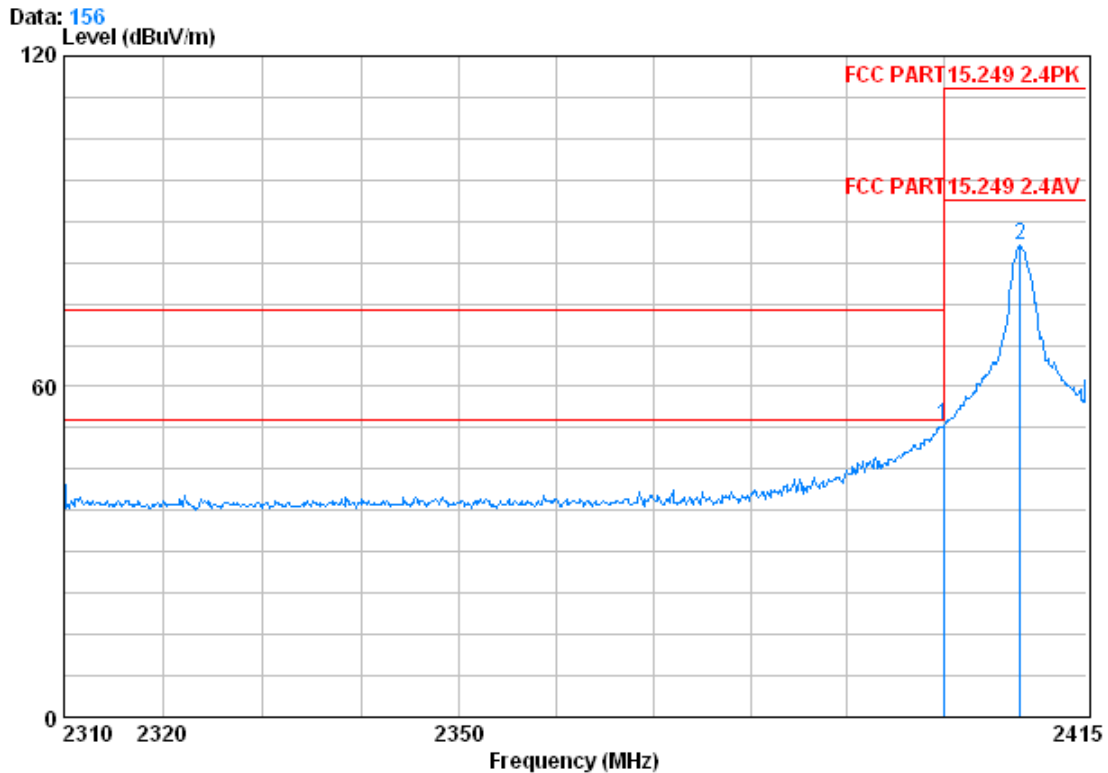


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Test plot as follows:

| | | | | | | |
|------------|--------------|---------------|--------|---------|------|----------|
| Test mode: | Transmitting | Test channel: | Lowest | Remark: | Peak | Vertical |
|------------|--------------|---------------|--------|---------|------|----------|



Condition : FCC PART15.249 2.4PK 3m VERTICAL
 Job No. : 5771RF
 Mode : 2408 Bangedge

| | Freq | Cable | Antenna | Preamp | Read | Limit | Over | |
|-----|----------|-------|---------|--------|-------|--------|--------|-------------|
| | MHz | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 @ | 2400.000 | 2.98 | 32.51 | 39.86 | 57.22 | 52.85 | 74.00 | -21.15 Peak |
| 2 | 2408.070 | 2.99 | 32.54 | 39.86 | 89.85 | 85.53 | 114.00 | -28.47 Peak |

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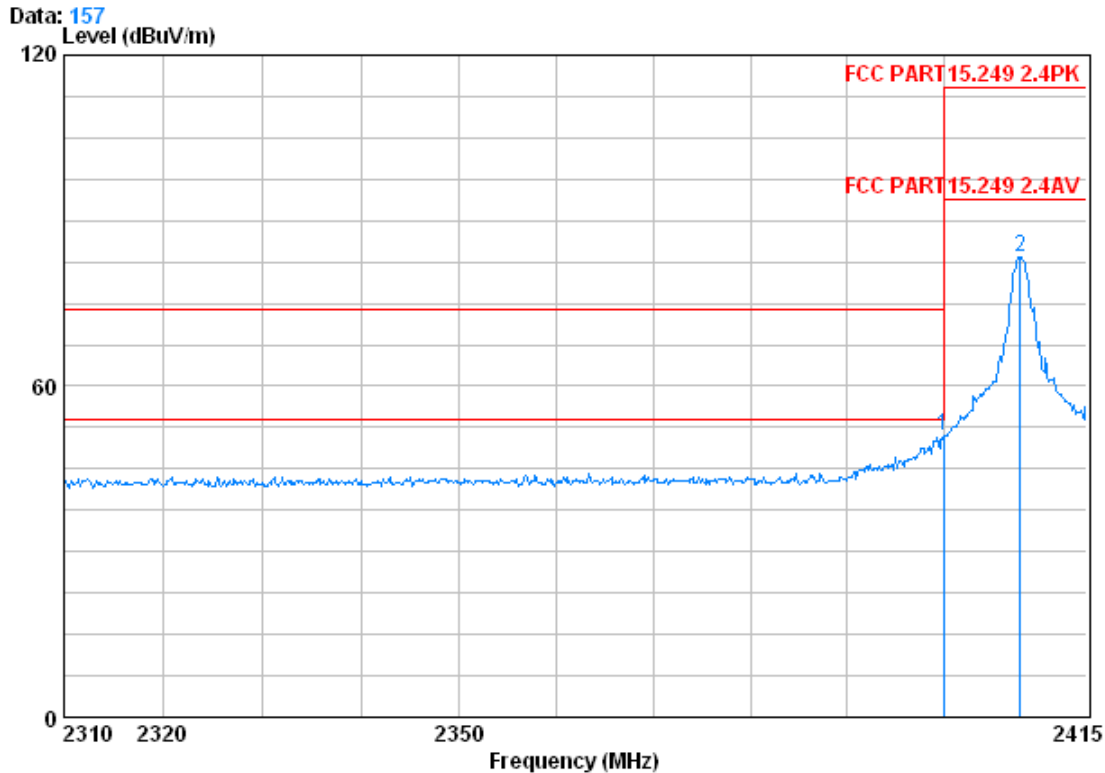


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| | | | | | | |
|------------|--------------|---------------|--------|---------|------|------------|
| Test mode: | Transmitting | Test channel: | Lowest | Remark: | Peak | Horizontal |
|------------|--------------|---------------|--------|---------|------|------------|



Condition : FCC PART15.249 2.4PK 3m HORIZONTAL
 Job No. : 5771RF
 Mode : 2408 Bangdedge

| | Freq | Cable Loss | Antenna Factor | Preamplifier Factor | Read Level | Limit Level | Limit Line | Over Limit | Remark |
|---|----------|------------|----------------|---------------------|------------|-------------|------------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2400.000 | 2.98 | 32.51 | 39.86 | 55.26 | 50.89 | 74.00 | -23.11 | Peak |
| 2 | 2408.070 | 2.99 | 32.54 | 39.86 | 87.86 | 83.54 | 114.00 | -30.46 | Peak |

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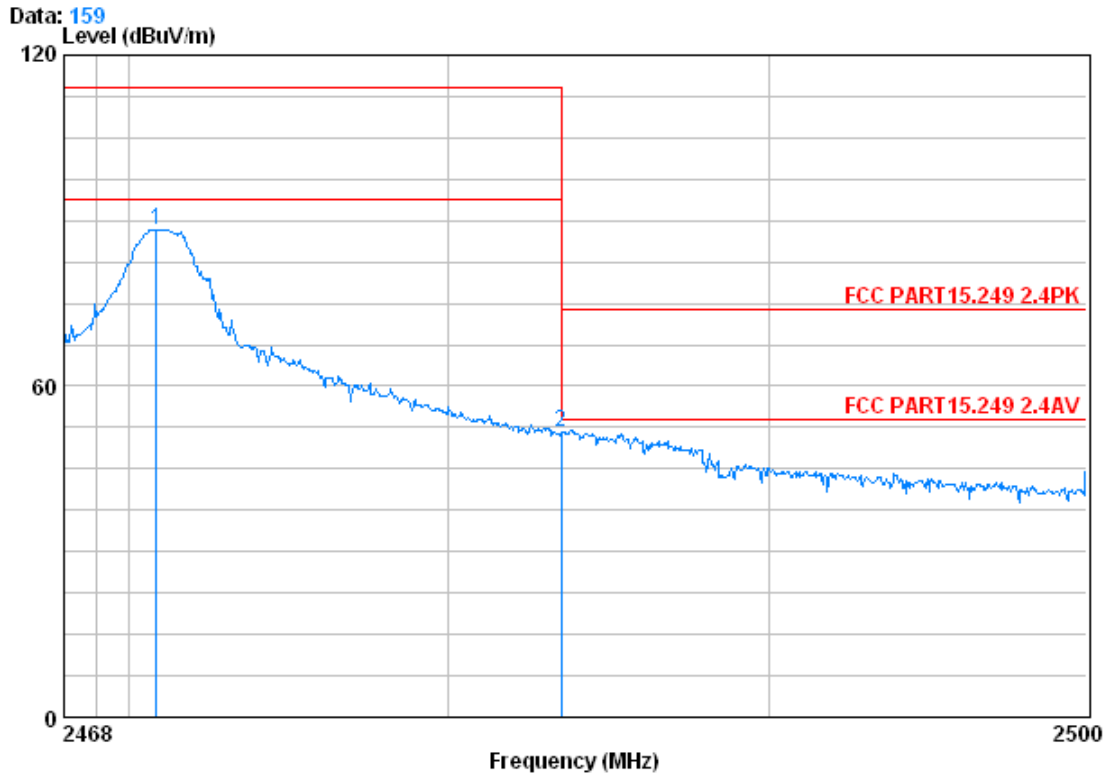


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| | | | | | | |
|------------|--------------|---------------|---------|---------|------|----------|
| Test mode: | Transmitting | Test channel: | Highest | Remark: | Peak | Vertical |
|------------|--------------|---------------|---------|---------|------|----------|



Condition : FCC PART15.249 2.4PK 3m VERTICAL
 Job No. : 5771RF
 Mode : 2471 Bangdedge

| | Freq | Cable&Antenna Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Line | Over Limit | Remark |
|---|----------|--------------------|----------------|---------------|------------|-------------|-----------|------------|--------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2470.880 | 3.02 | 32.67 | 39.91 | 92.55 | 88.33 | 114.00 | -25.67 | Peak |
| 2 | 2483.500 | 3.03 | 32.67 | 39.92 | 55.77 | 51.55 | 74.00 | -22.45 | Peak |

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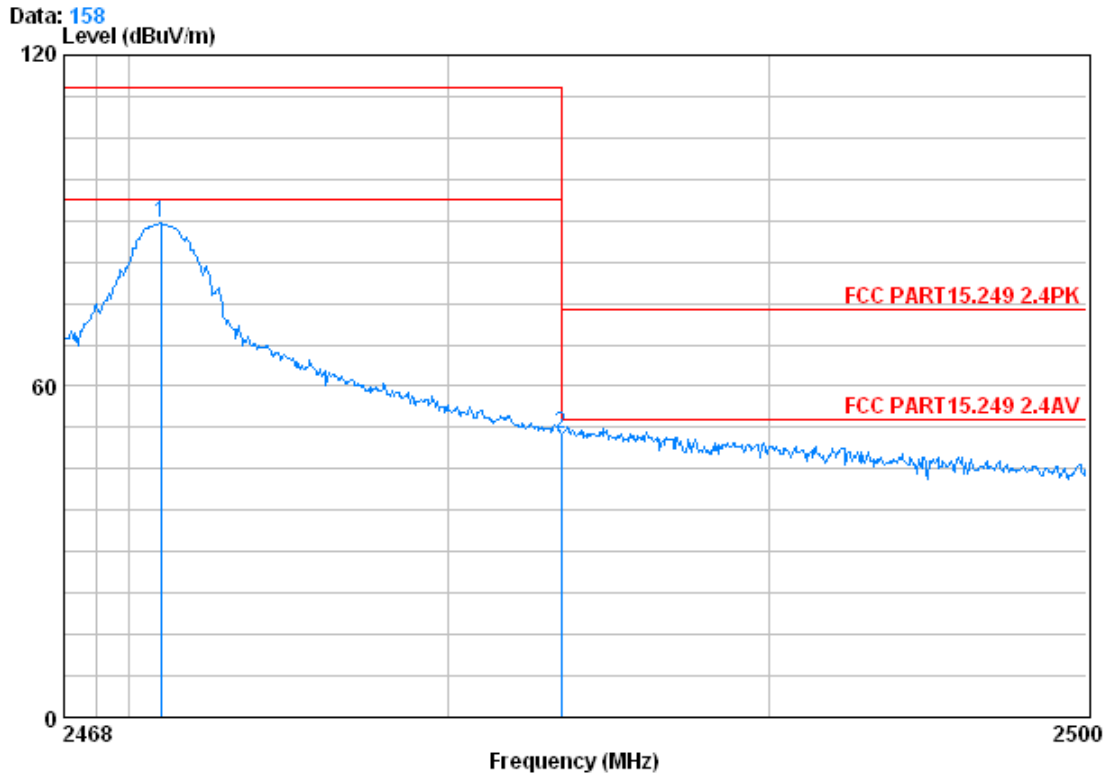


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| | | | | | | |
|------------|--------------|---------------|---------|---------|------|------------|
| Test mode: | Transmitting | Test channel: | Highest | Remark: | Peak | Horizontal |
|------------|--------------|---------------|---------|---------|------|------------|



Condition : FCC PART15.249 2.4PK 3m HORIZONTAL
Job No. : 5771RF
Mode : 2471 Bangdedge

| | Freq | Cable Loss | Antenna Factor | Preamp Factor | Read Level | Limit Level | Over Limit | Remark |
|---|----------|------------|----------------|---------------|------------|-------------|------------|-------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2471.008 | 3.02 | 32.67 | 39.91 | 93.71 | 89.49 | 114.00 | -24.51 Peak |
| 2 | 2483.500 | 3.03 | 32.67 | 39.92 | 55.67 | 51.45 | 74.00 | -22.55 Peak |

Note:

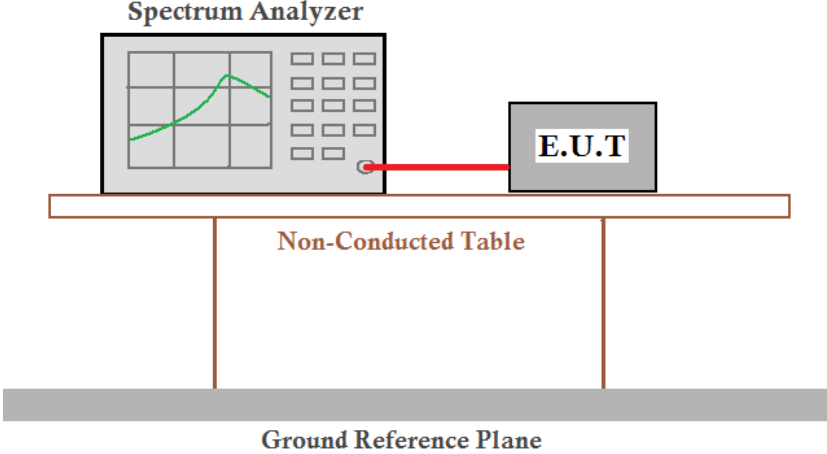
The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation

with a sample calculation is as follows:

$$\text{Final Test Level} = \text{Receiver Reading} + \text{Antenna Factor} + \text{Cable Factor} - \text{Preamplifier Factor}$$

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5.4 20dB Bandwidth

| | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.215 |
| Test Method: | ANSI C63.10:2009 |
| Test Setup: |  <p>The diagram illustrates the test setup. A Spectrum Analyzer is connected via a red cable to an E.U.T. (Equipment Under Test). Both are placed on a Non-Conducted Table. Below the table is a Ground Reference Plane.</p> |
| Limit: | N/A |
| Exploratory Test Mode: | Transmitter mode |
| Instruments Used: | Refer to section 4.10 for details |
| Test Results: | Pass |

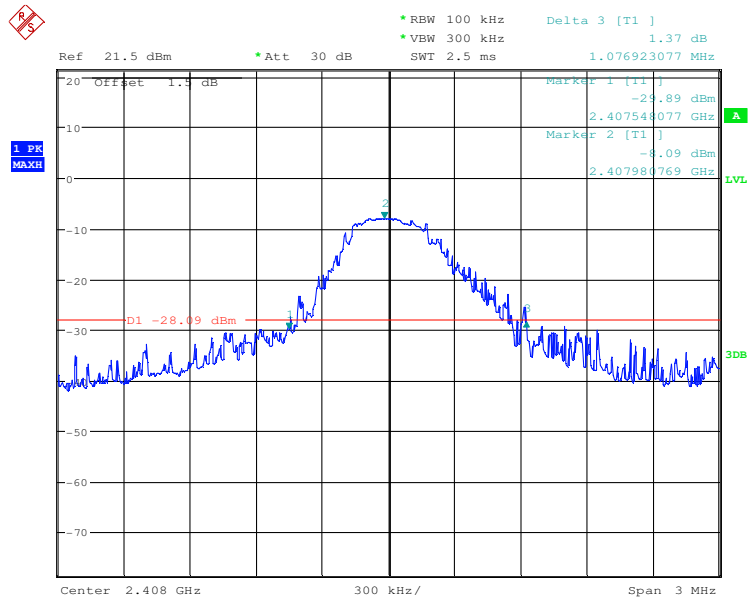
Measurement Data

| Test Channel | 20dB bandwidth (MHz) | Results |
|--------------|----------------------|---------|
| Lowest | 1.076923077 | Pass |
| Middle | 1.355769231 | Pass |
| Highest | 1.778846154 | Pass |

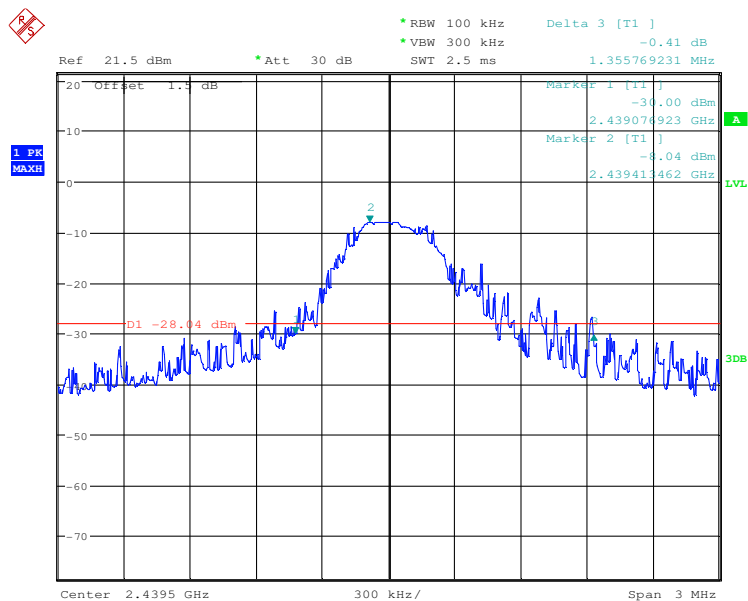


Test plot as follows:

| | |
|---------------|--------|
| Test channel: | Lowest |
|---------------|--------|



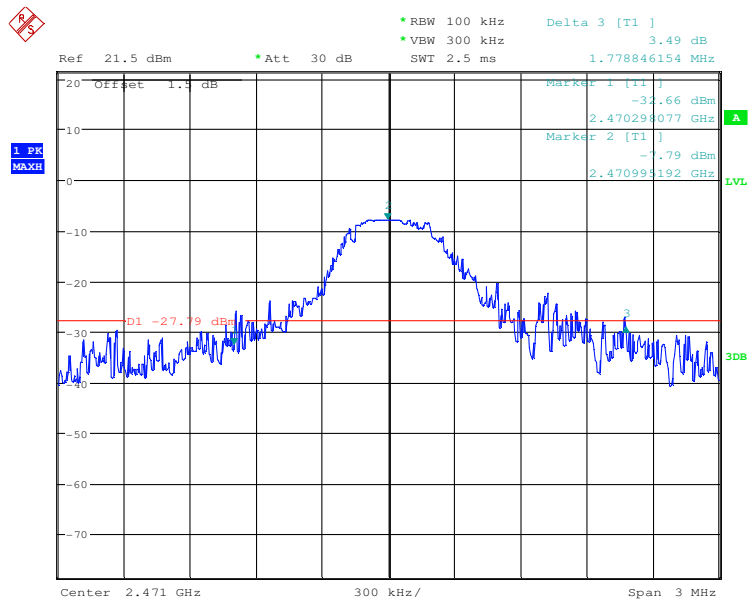
| | |
|---------------|--------|
| Test channel: | Middle |
|---------------|--------|



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| | |
|---------------|---------|
| Test channel: | Highest |
|---------------|---------|



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