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TEST REPORT

| Application No.: Applicant: | SZEM1805003571CR(SGS SZ No.:T51810220188EM) DOUBLEEAGLE INDUSTRY (CHINA) LIMITED |
|--------------------------------|---|
| Address of Applicant: | Xingda Industrial Park, Chenghai District, Shantou City, Guangdong Province, China |
| Manufacturer/Supplier: | DOUBLEEAGLE INDUSTRY (CHINA) LIMITED |
| Equipment Under Test (EUT |): |
| EUT Name: | Radio Control Toys |
| Model No.: | E564-003 |
| Requested Age Grading: | 3+ |
| Country of Origin: | China |
| FCC ID: | 2AAFASY-E564-003 |
| Standard(s) : | 47 CFR Part 15, Subpart C 15.249 |
| Date of Receipt: | 2018-05-09 |
| Date of Test: | 2018-05-15 to 2018-05-17 |
| Date of Issue: | 2018-05-21 |
| Test Result: | Pass* |

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



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.



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| | Revision Record | | | | | | |
|---------|------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Rema | | | | | | |
| 01 | | 2018-05-21 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|---|
| | Peter Grang | |
| | Peter Geng /Project Engineer | - |
| | Evic Fu | |
| | Eric Fu /Reviewer | - |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | | | |
|--------------------------------------|-------------------------------------|--------|-------------------------------------|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass | | |

| Radio Spectrum Matter Part | | | | | | |
|--|-------------------------------------|---|---|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass | | |
| Field Strength of the Fundamental Signal (15.249(a)) | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.5&6.6 | 47 CFR Part 15, Subpart C 15.249(a) | Pass | | |
| Restricted Band Around Fundamental Frequency | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209 | Pass | | |
| Radiated Emissions | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.4&6.5&6.6 | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) | Pass | | |



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4 General Information

4.1 Details of E.U.T.

| Power supply: | Remote: DC 3.0V by 2x1.5V "AA" batteries |
|---------------------|--|
| Channel Spacing | 1MHz |
| Modulation Type | GFSK |
| Number of Channels | 71 |
| Operation Frequency | 2405-2475MHz |
| Antenna Type | Integral antenna |
| Antenna Gain | 0dBi |

4.2 Description of Support Units

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 7.25 x 10 ⁻⁸ |
| 2 | Duty cycle | 0.37% |
| 3 | Occupied Bandwidth | 3% |
| 4 | RF conducted power | 0.75dB |
| 5 | RF power density | 2.84dB |
| 6 | Conducted Spurious emissions | 0.75dB |
| 7 | DE Dedicted newsr | 4.5dB (below 1GHz) |
| / | RF Radiated power | 4.8dB (above 1GHz) |
| 0 | Dedicted Courieus emission test | 4.5dB (Below 1GHz) |
| 8 | Radiated Spurious emission test | 4.8dB (Above 1GHz) |
| 9 | Temperature test | 1℃ |
| 10 | Humidity test | 3% |
| 11 | Supply voltages | 1.5% |
| 12 | Time | 3% |



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4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch

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.

4.5 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.

A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Industry Canada (IC)

Two 3m Semi-anechoic chambers and the 10m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1, 4620C-2, 4620C-3.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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5 Equipment List

| 20dB Bandwidth | | | | | |
|----------------------|----------------------|-------------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DC Power Supply | ZhaoXin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Spectrum Analyzer | Rohde & Schwarz | FSP | SEM004-06 | 2017-09-27 | 2018-09-26 |
| Measurement Software | JS Tonscend | JS1120-2 BT/WIFI V2. | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM031-02 | 2017-07-13 | 2018-07-12 |
| Attenuator | Weinschel Associates | WA41 | SEM021-09 | N/A | N/A |
| Signal Generator | KEYSIGHT | N5173B | SEM006-05 | 2017-09-27 | 2018-09-26 |
| Power Meter | Rohde & Schwarz | NRVS | SEM014-02 | 2017-09-27 | 2018-09-26 |

| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|---------------------------------------|--|-----------------------|--------------|------------|--------------|
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Horn Antenna (15GHz-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 |
| Low Noise Amplifier (100MHz-18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 |
| Pre-amplifier (18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 |
| Pre-amplifier (26GHz-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |



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| Restricted Band Around Fundamental Frequency | | | | | | |
|--|--|-----------------------|--------------|------------|--------------|--|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date | |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 | |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A | |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 | |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 | |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 | |
| Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 | |
| Horn Antenna (15GHz-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 | |
| Pre-amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 | |
| Low Noise Amplifier (100MHz-18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 | |
| Pre-amplifier (18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 | |
| Pre-amplifier (26GHz-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 | |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 | |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 | |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A | |

| Radiated Emissions | | | | | |
|-----------------------------------|-----------------|---------------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6- 27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2017-07-13 | 2018-07-12 |
| Spectrum Analyzer | Rohde & Schwarz | FSU43 | SEM004-08 | 2018-04-02 | 2019-04-01 |
| BiConiLog Antenna (26-3000MHz) | ETS-Lindgren | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Horn Antenna (1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Horn Antenna (15GHz-40GHz) | Schwarzbeck | BBHA 9170 | SEM003-15 | 2017-10-17 | 2020-10-16 |
| Pre-amplifier (0.1-1300MHz) | HP | 8447D | SEM005-02 | 2017-09-27 | 2018-09-26 |



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| Low Noise Amplifier (100MHz-18GHz) | Black Diamond Series | BDLNA-0118- 352810 | SEM005-05 | 2017-09-27 | 2018-09-27 |
|---------------------------------------|--|-----------------------|-----------|------------|------------|
| Pre-amplifier (18-26GHz) | Rohde & Schwarz | CH14-H052 | SEM005-17 | 2018-04-02 | 2019-04-01 |
| Pre-amplifier (26GHz-40GHz) | Compliance Directions Systems Inc. | PAP-2640-50 | SEM005-08 | 2018-04-02 | 2019-04-01 |
| DC Power Supply | Zhao Xin | RXN-305D | SEM011-02 | 2017-09-27 | 2018-09-26 |
| Active Loop Antenna | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Band filter | N/A | N/A | SEM023-01 | N/A | N/A |

| Radiated Emissions | | | | | |
|---------------------------------------|-------------------------|-----------------|---------------|---------------------------|-------------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. Date (yyyy-mm-dd) | Cal. Due date (yyyy-mm-dd) |
| 10m Semi-Anechoic Chamber | SAEMC | FSAC1018 | SEM001-03 | 2018-03-31 | 2021-03-30 |
| EMI Test Receiver (9k-7GHz) | Rohde & Schwarz | ESR | SEM004-03 | 2018-04-02 | 2019-04-01 |
| Trilog-Broadband Antenna(30M-1GHz) | Schwarzbeck | VULB9168 | SEM003-18 | 2016-06-29 | 2019-06-28 |
| Pre-amplifier (9kHz- 1GHz) | Sonoma Instrument Co | 310N | SEM005-04 | 2018-04-13 | 2019-04-12 |
| Loop Antenna (9kHz- 30MHz) | ETS-Lindgren | 6502 | SEM003-08 | 2017-08-22 | 2020-08-21 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM029-01 | 2017-07-13 | 2018-07-12 |

| General used equipmen | t | | | | |
|------------------------------------|---|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2017-09-29 | 2018-09-28 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2017-09-29 | 2018-09-28 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2018-04-08 | 2019-04-07 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

Limit:

15.203 requirement:

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.

6.1.2 Conclusion

Standard Requirement:

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.

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0dBi.





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7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

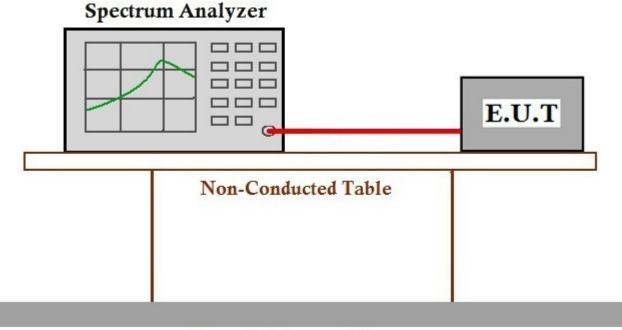
| Test Requirement | 47 CFR Part 15, Subpart C 15.215 |
|------------------|----------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 6.9 |
| Limit: | N/A |

7.1.1 E.U.T. Operation

Operating Environment:

Temperature:24.6 °CHumidity:46.1 % RHAtmospheric Pressure:1015mbarTest modea:TX mode_Keep the EUT in transmitting with modulation mode.

7.1.2 Test Setup Diagram

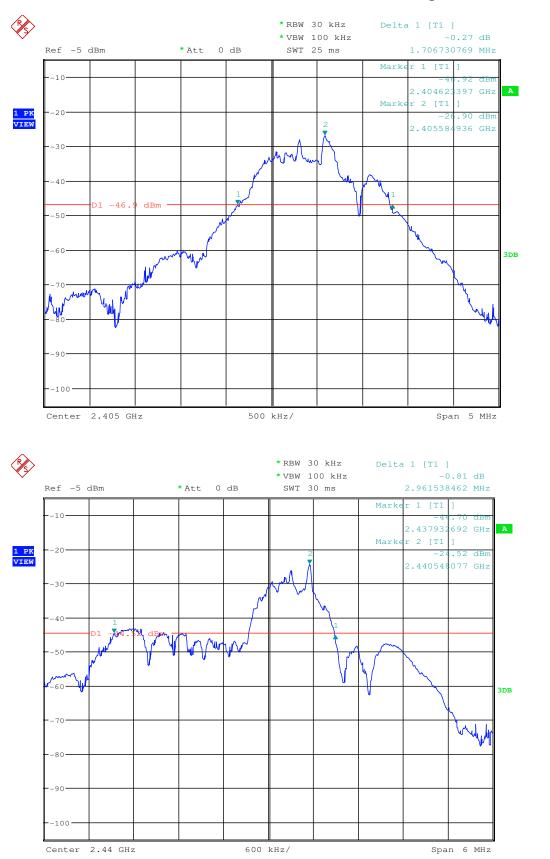


Ground Reference Plane

7.1.3 Measurement Procedure and Data

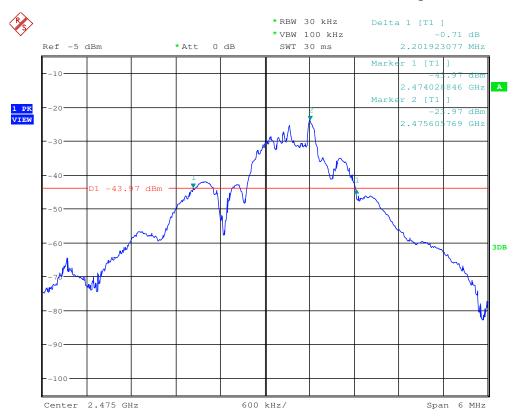


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7.2 Field Strength of the Fundamental Signal (15.249(a))

Test Requirement47 CFR Part 15, Subpart C 15.249(a)Test Method:ANSI C63.10 (2013) Section 6.5&6.6Measurement Distance:3mLimit:Image: Construction of the section of the se

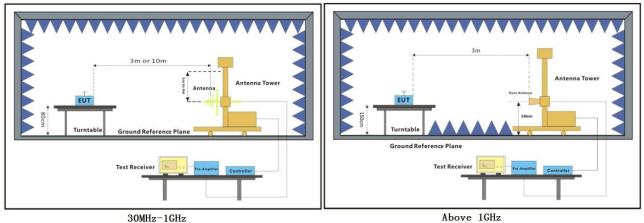
| Frequency | Limit (dBuV/m @3m) | Remark |
|-------------------|--------------------|---------------|
| 2400MHz-2483.5MHz | 94.0 | Average Value |
| | 114.0 | Peak Value |

7.2.1 E.U.T. Operation

Operating Environment:

Temperature:22.6 °CHumidity:50 % RHAtmospheric Pressure:1015 mbarTest modea:TX mode_Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





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7.2.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

j. Repeat above procedures until all frequencies measured was complete.

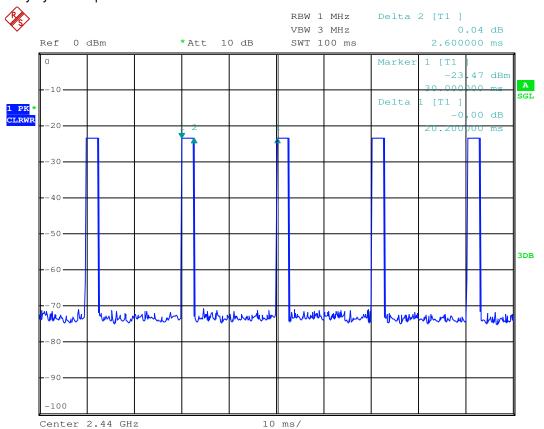
Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Average value: Calculate Formula: Average value=Peak value + PDCF PDCF=20 log(Duty cycle) Duty cycle= T on time / T period Ton time =2.6ms T period =20.2ms PDCF value= -17.81dB

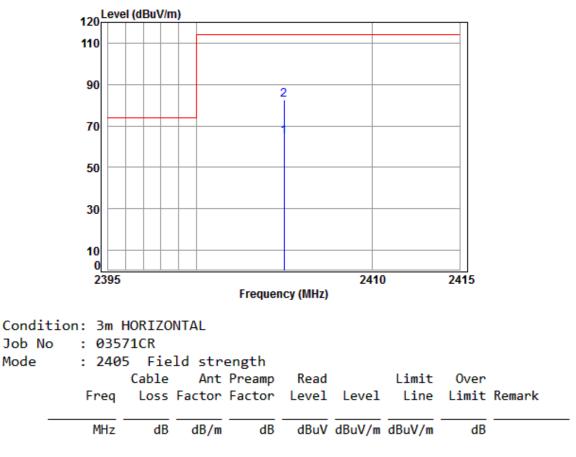
Duty cycle test plots:





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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low

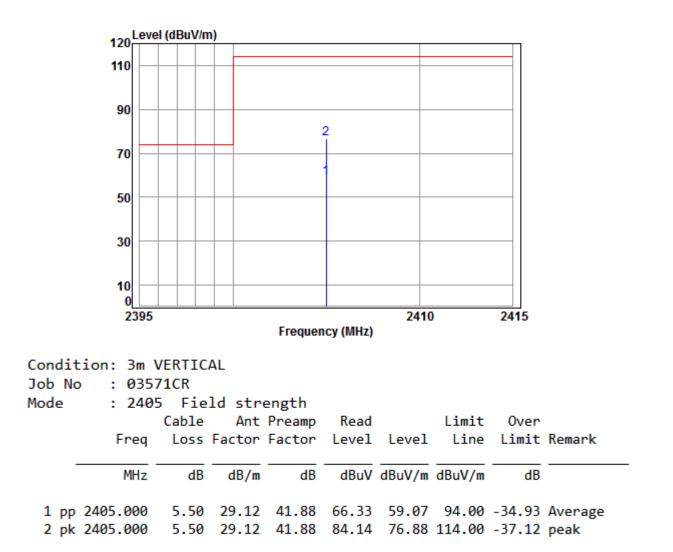


| 1 pp | 2405.000 | 5.50 | 29.12 | 41.88 | 71.96 | 64.70 | 94.00 | -29.30 | Average |
|------|----------|------|-------|-------|-------|-------|--------|--------|---------|
| 2 pk | 2405.000 | 5.50 | 29.12 | 41.88 | 89.77 | 82.51 | 114.00 | -31.49 | peak |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



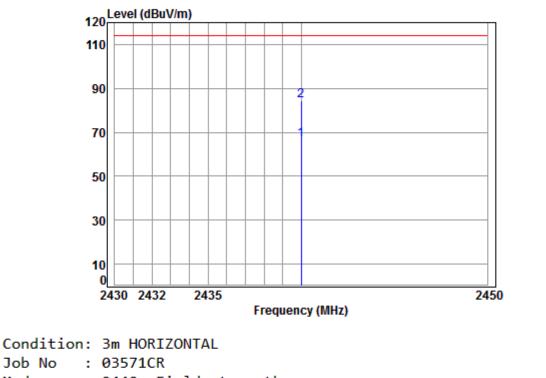


Job No

SGS-CSTC Standards Technical Services Co., Ltd. **Shenzhen Branch**

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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:middle

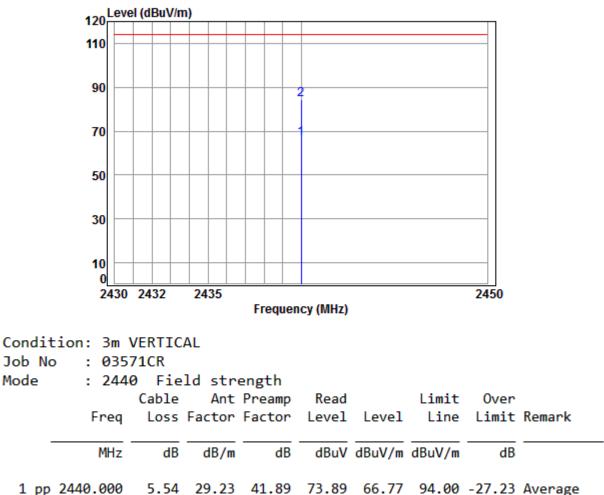


| Mode | | Cable | | Preamp | | | | | |
|------|----------|-------|--------|--------|-------|----------------------|--------|--------|---------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | 2440.000 | | 20.22 | 44 00 | 73 50 | <i>cc</i> 1 0 | | 27.60 | |
| 1 pp | 2440.000 | 5.54 | 29.23 | 41.89 | /3.52 | 66.40 | 94.00 | -27.60 | Average |
| 2 pk | 2440.000 | 5.54 | 29.23 | 41.89 | 91.34 | 84.22 | 114.00 | -29.78 | peak |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:middle

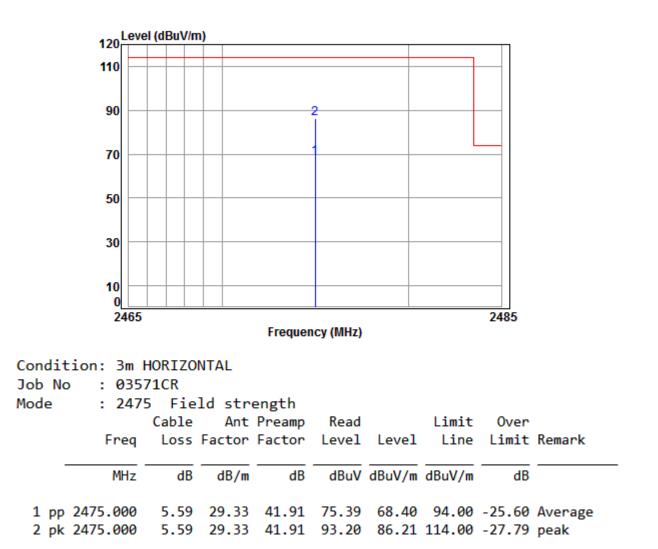


2 pk 2440.000 5.54 29.23 41.89 91.71 84.59 114.00 -29.41 peak



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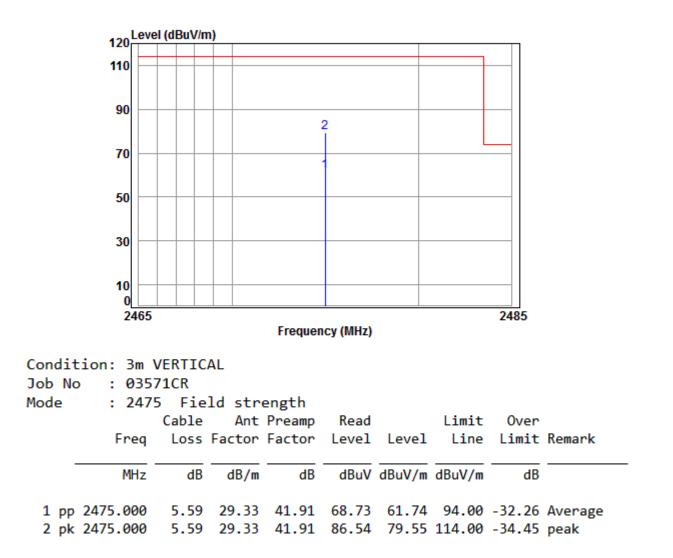
Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High





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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High





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7.3 Restricted Band Around Fundamental Frequency

Test Requirement47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209Test Method:ANSI C63.10 (2013) Section 6.4&6.5&6.6Measurement Distance:3mLimit:

| 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 | | | | | |
| 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | |
| Above 1GHz | 54.0 | Average Value | | | | | |
| Above 1GHz | 74.0 | Peak Value | | | | | |
| | | | | | | | |

Emission 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.



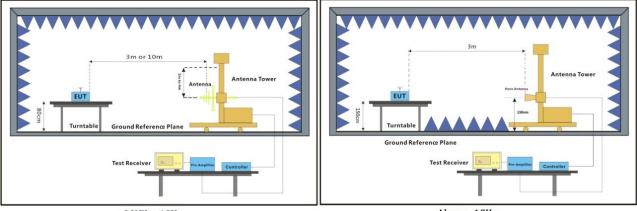
Report No.: SZEM180500357102 Page: 24 of 40

7.3.1 E.U.T. Operation

Operating Environment:

Temperature:22.6 °CHumidity:50 % RHAtmospheric Pressure:1015 mbarTest modea:TX mode_Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram



30MHz-1GHz

Above 1GHz

7.3.3 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. If the emission level of the EUT in peak mode was 10dB lower than the 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.

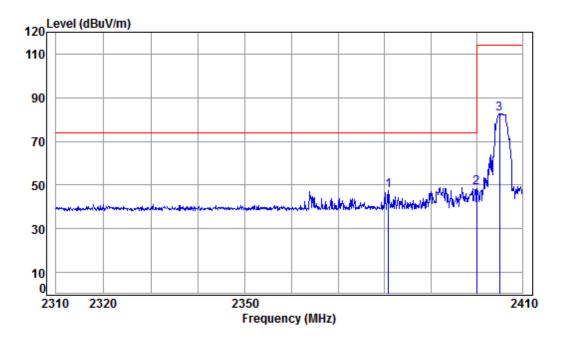
j. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low



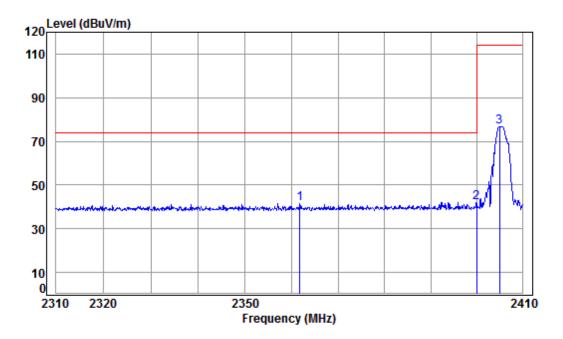
Condition: 3m HORIZONTAL

| Job No | | | | | | | | | |
|--------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| Mode | : 240 | 5 Band | edge | | | | | | |
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2380.865 | 5.46 | 29.05 | 41.87 | 54.79 | 47.43 | 74.00 | -26.57 | Peak |
| 2 pp | 2400.000 | 5.48 | 29.08 | 41.87 | 56.00 | 48.69 | 74.00 | -25.31 | peak |
| 3 | 2405.000 | 5.50 | 29.12 | 41.88 | 89.77 | 82.51 | 114.00 | -31.49 | peak |



Report No.: SZEM180500357102 Page: 26 of 40

Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



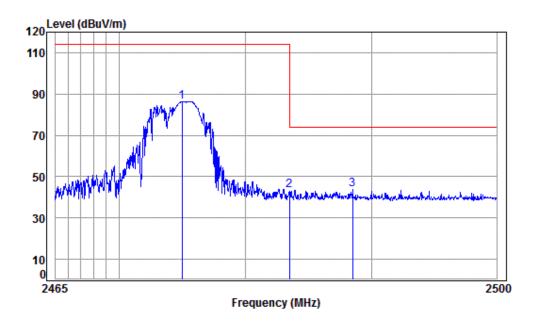
Condition: 3m VERTICAL

| Job No | · : 035 | 71CR | | | | | | | |
|--------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| Mode | : 240 | 5 Band | edge | | | | | | |
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 2361.771 | 5.44 | 28.99 | 41.86 | 48.98 | 41.55 | 74.00 | -32.45 | Peak |
| 2 pp | 2400.000 | 5.49 | 29.11 | 41.88 | 49.22 | 41.94 | 74.00 | -32.06 | peak |
| 3 | 2405.000 | 5.50 | 29.12 | 41.88 | 84.14 | 76.88 | 114.00 | -37.12 | peak |



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High



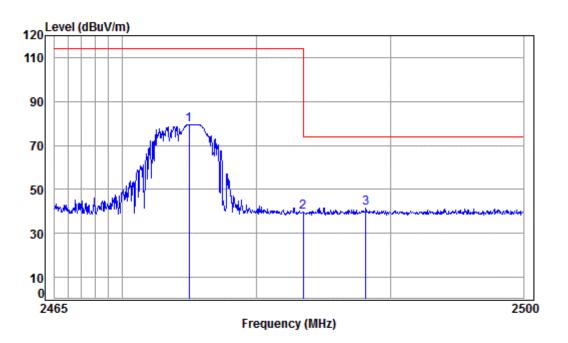
```
Condition: 3m HORIZONTAL
```

| Job No | : 035 | 71CR | | | | | | | |
|--------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| Mode | : 247 | 5 Band | edge | | | | | | |
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| _ | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 pp | 2475.000 | 5.59 | 29.33 | 41.91 | 93.20 | 86.21 | 114.00 | -27.79 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 50.09 | 43.13 | 74.00 | -30.87 | peak |
| 3 | 2488.536 | 5.61 | 29.37 | 41.91 | 50.73 | 43.80 | 74.00 | -30.20 | Peak |
| | | | | | | | | | |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High



| Condition: | 3m VERTICAL |
|------------|-------------|
| Job No : | 03571CR |

| 300 100 | | / LCI | | | | | | | |
|---------|----------|--------|--------|--------|-------|--------|--------|--------|--------|
| Mode | : 247 | 5 Band | edge | | | | | | |
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | | | | | | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | |
| 1 | 2475.000 | 5.59 | 29.33 | 41.91 | 86.54 | 79.55 | 114.00 | -34.45 | peak |
| 2 | 2483.500 | 5.60 | 29.35 | 41.91 | 46.75 | 39.79 | 74.00 | -34.21 | peak |
| 3 рр | 2488.185 | 5.60 | 29.37 | 41.91 | 48.53 | 41.59 | 74.00 | -32.41 | Peak |
| | | | | | | | | | |



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7.4 Radiated Emissions

| Test Requirement | 47 CFR Part 15, Subpart C 15.209 & 15.249 (a),(d) |
|-----------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.4&6.5&6.6 |
| Measurement Distance: | 3m |
| Limit: | |

| Frequency(MHz) | Field strength (microvolts/meter) | Limit (dBuV/m) | Detector | Measurement Distance (meters) |
|----------------|--------------------------------------|-------------------|----------|----------------------------------|
| 0.009-0.490 | 2400/F(kHz) | - | - | 300 |
| 0.490-1.705 | 24000/F(kHz) | - | - | 30 |
| 1.705-30 | 30 | - | - | 30 |
| 30-88 | 100 | 40.0 | QP | 3 |
| 88-216 | 150 | 43.5 | QP | 3 |
| 216-960 | 200 | 46.0 | QP | 3 |
| 960-1000 | 500 | 54.0 | QP | 3 |
| Above 1000 | 500 | 54.0 | AV | 3 |



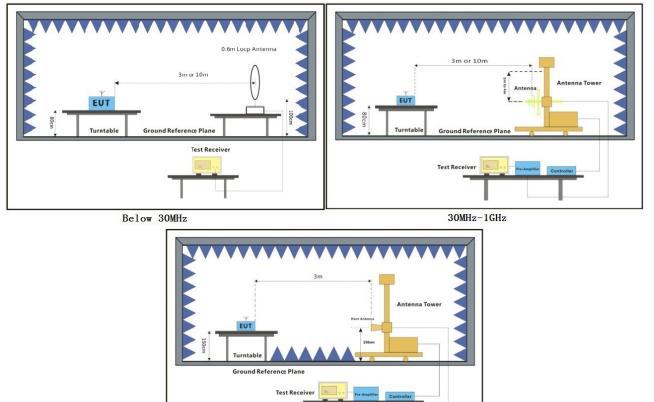
Report No.: SZEM180500357102 Page: 30 of 40

7.4.1 E.U.T. Operation

Operating Environment:

Temperature:22.3 °CHumidity:61.1 % RHAtmospheric Pressure:1015mbarTest modea:TX mode_Keep the EUT in transmitting with modulation mode.

7.4.2 Test Setup Diagram



Above 1GHz

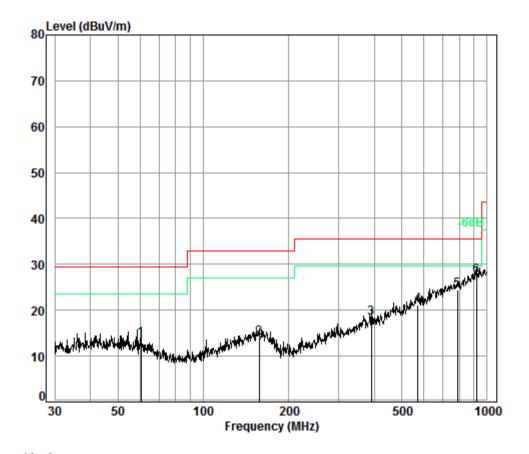
7.4.3 Measurement Procedure and Data

For testing performed with the loop antenna, the center of the loop was positioned 1 m above the ground and positioned with its plane vertical at the specified distance from the EUT. During testing the loop was rotated about its vertical axis for maximum response at each azimuth and also investigated with the loop positioned in the horizontal plane. Only the worst position of vertical was shown in the report.



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30MHz~1GHz Mode: a; Polarization: Horizontal



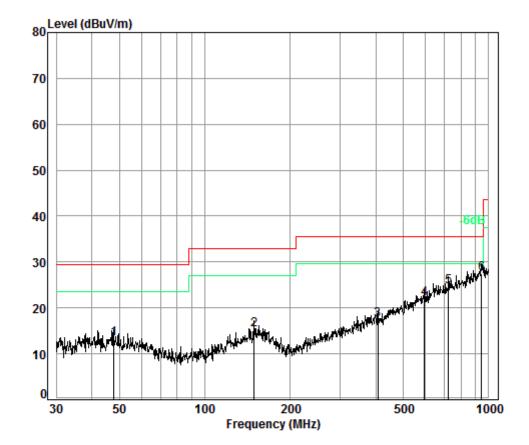
Condition: 10m HORIZONTAL Job No. : 03571CR

| | : a Freq | Cable Loss | | Preamp Factor | Read Level | | Limit Line | Over Limit |
|-------------------------------|---|--|----------------------------------|------------------|----------------------------------|----------------------------------|----------------------------------|------------------|
| _ | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 3 4 5 6 pp | 60.28 157.56 390.72 570.61 785.09 916.07 | 7.00 7.49 8.30 8.83 9.26 9.50 | 13.39 14.69 18.10 21.13 | | 25.58 27.75 26.64 26.46 | 13.95 18.31 21.16 24.47 | 33.00 35.60 35.60 35.60 | -17.29 -14.44 |



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Mode: a; Polarization: Vertical



Condition: 10m VERTICAL Job No. : 03571CR

| | : a Freq | | | Preamp Factor | | | | Over Limit |
|----------------|----------------------------|----------------------|-------|-------------------------|-------|--------|--------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 | 47.83 149.49 | | | 32.52 32.51 | | | | |
| 3 | 407.51 | 8.32 | 15.07 | 32.43 | 26.43 | 17.39 | 35.60 | -18.21 |
| 4 5 6 pp | 595.13 721.73 945.44 | 8.89 9.20 9.56 | 20.41 | 32.41 32.39 31.19 | 27.50 | 24.72 | 35.60 | -10.88 |



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Below 1GHz

The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

 $L_3 / L_{10} = D_{10} / D_3$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L10: Level @ 10m distance. Unit: uV/m;

D3: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

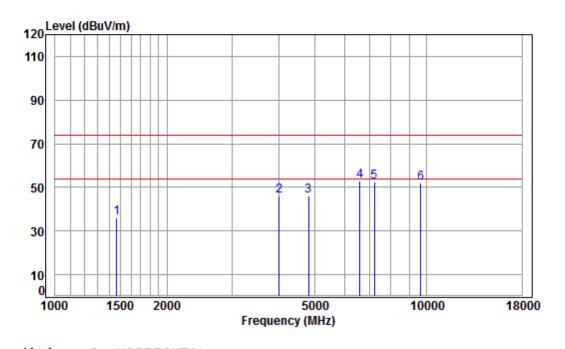
| Frequency (MHz) | Level @ 10m (dBuV/m) | Level @ 10m (uV/m) | Level @ 3m (uV/m) | Level @ 3m (dBuV/m) | Limit @ 3m (dBuV/m) | Margin (dB) | Ant. Polarization |
|--------------------|----------------------------|-----------------------|----------------------|------------------------|------------------------|-------------|----------------------|
| 47.83 | 13.26 | 4.60 | 15.34 | 23.72 | 40.00 | -16.28 | V |
| 149.49 | 15.31 | 5.83 | 19.43 | 25.77 | 43.50 | -17.73 | V |
| 407.51 | 17.39 | 7.40 | 24.68 | 27.85 | 46.00 | -18.15 | V |
| 595.13 | 21.96 | 12.53 | 41.77 | 32.42 | 46.00 | -13.58 | V |
| 721.73 | 24.72 | 17.22 | 57.40 | 35.18 | 46.00 | -10.82 | V |
| 945.44 | 27.54 | 23.82 | 79.41 | 38.00 | 46.00 | -8.00 | V |
| 60.28 | 13.68 | 4.83 | 16.10 | 24.14 | 40.00 | -15.86 | Н |
| 157.56 | 13.95 | 4.98 | 16.61 | 24.41 | 43.50 | -19.09 | Н |
| 390.72 | 18.31 | 8.23 | 27.44 | 28.77 | 46.00 | -17.23 | Н |
| 570.61 | 21.16 | 11.43 | 38.10 | 31.62 | 46.00 | -14.38 | Н |
| 785.09 | 24.47 | 16.73 | 55.77 | 34.93 | 46.00 | -11.07 | Н |
| 916.07 | 27.39 | 23.42 | 78.05 | 37.85 | 46.00 | -8.15 | Н |



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Above 1GHz

Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:Low



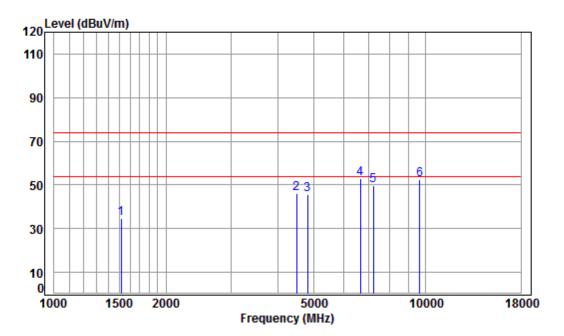
| Condition: | 3m HORIZONTAL |
|------------|---------------|
| Job No : | 03571CR |
| Mode : | 2405 TX RSE |
| | |

| Note | : | | | _ | | | | - | |
|------|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | 1464.522 | 5.37 | 25.66 | 41.38 | 46.54 | 36.19 | 74.00 | -37.81 | peak |
| 2 | 4004.339 | 6.99 | 33.60 | 42.33 | 47.63 | 45.89 | 74.00 | -28.11 | peak |
| 3 | 4810.000 | 7.90 | 34.17 | 42.47 | 46.60 | 46.20 | 74.00 | -27.80 | peak |
| 4 pp | 6602.265 | 11.24 | 35.39 | 41.14 | 47.40 | 52.89 | 74.00 | -21.11 | peak |
| 5 | 7215.000 | 10.07 | 36.41 | 40.71 | 46.55 | 52.32 | 74.00 | -21.68 | peak |
| 6 | 9620.000 | 10.75 | 37.52 | 37.72 | 41.36 | 51.91 | 74.00 | -22.09 | peak |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:Low



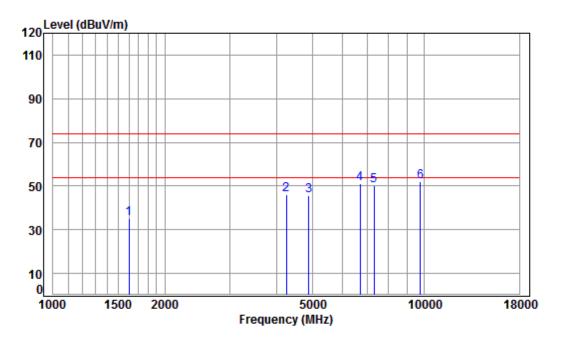
| Condition: | 3m VERTICAL |
|------------|-------------|
| Job No : | 03571CR |
| Mode : | 2405 TX RSE |
| Note : | |

| Freq | | | Preamp Factor | | | | | Remark |
|---|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 1516.210 2 4495.125 3 4810.000 4 pp 6659.763 5 7215.000 6 9620.000 | 7.55 7.90 11.08 10.07 | 33.60 34.17 35.56 36.41 | 42.42 42.47 41.10 40.71 | 47.34 45.94 47.21 43.87 | 46.07 45.54 52.75 49.64 | 74.00 74.00 74.00 74.00 | -27.93 -28.46 -21.25 -24.36 | peak peak peak peak |



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:middle



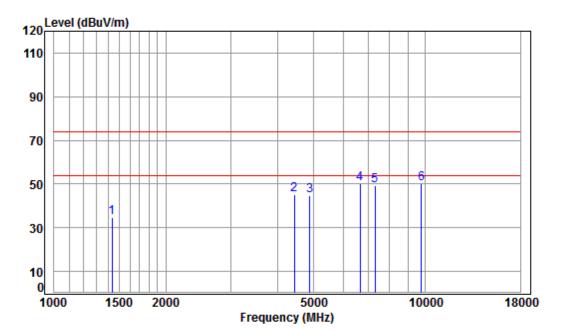
| Condition: | 3m HORIZONTAL |
|------------|---------------|
| Job No : | 03571CR |
| Mode : | 2440 TX RSE |
| Note : | |

| | Freq | | | Preamp Factor | | | | | Remark |
|------------------------------|--|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 42 3 48 4 67 5 73 | 01.804 42.641 880.000 717.762 820.000 760.000 | 7.27 7.97 10.91 10.05 | 33.60 34.29 35.72 36.37 | 42.37 42.48 41.05 40.63 | 47.48 45.70 45.54 44.49 | 45.98 45.48 51.12 50.28 | 74.00 74.00 74.00 74.00 | -28.02 -28.52 -22.88 -23.72 | peak peak peak peak |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:middle



| Condition: | 3m VERTICAL | | | | | |
|------------|-------------|--|--|--|--|--|
| Job No : | 03571CR | | | | | |
| Mode : | 2440 TX RSE | | | | | |
| Note : | | | | | | |

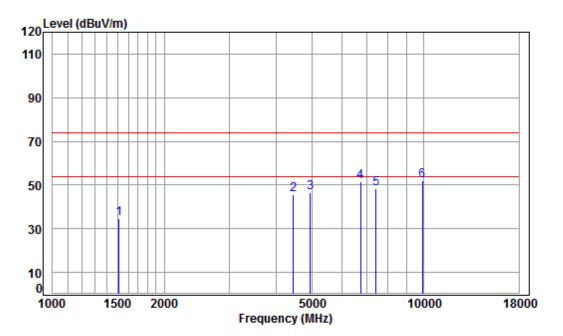
| NO1 | te |
|-----|----|
| | |

| | | | | | Preamp | | | | | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | - | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 1 | | 1435.189 | 5.27 | 25.54 | 41.36 | 45.04 | 34.49 | 74.00 | -39.51 | peak |
| 2 | | 4430.628 | 7.48 | 33.60 | 42.41 | 46.46 | 45.13 | 74.00 | -28.87 | peak |
| 3 | | 4880.000 | 7.97 | 34.29 | 42.48 | 45.10 | 44.88 | 74.00 | -29.12 | peak |
| 4 | рр | 6659.763 | 11.08 | 35.56 | 41.10 | 44.83 | 50.37 | 74.00 | -23.63 | peak |
| 5 | | 7320.000 | 10.05 | 36.37 | 40.63 | 43.57 | 49.36 | 74.00 | -24.64 | peak |
| 6 | | 9760.000 | 10.82 | 37.55 | 37.53 | 39.51 | 50.35 | 74.00 | -23.65 | peak |



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Mode:a; Polarization:Horizontal; Modulation:GFSK; Channel:High



| Condition: | 3m HORIZONTAL | | | | | | |
|------------|---------------|--|--|--|--|--|--|
| Job No : | 03571CR | | | | | | |
| Mode : | 2475 TX RSE | | | | | | |
| Note : | | | | | | | |

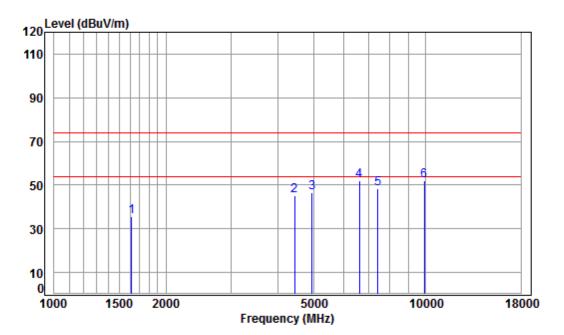
Note

| | | | Cable | Ant | Preamp | Read | | Limit | 0ver | |
|---|----|----------|-------|--------|--------|-------|--------|--------|--------|--------|
| | | Freq | Loss | Factor | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | | |
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| | | | | | | | | | | |
| 1 | | 1511.833 | 5.46 | 25.85 | 41.41 | 44.64 | 34.54 | 74.00 | -39.46 | peak |
| 2 | | 4456.315 | 7.51 | 33.60 | 42.41 | 46.89 | 45.59 | 74.00 | -28.41 | peak |
| 3 | | 4950.000 | 8.04 | 34.41 | 42.49 | 46.46 | 46.42 | 74.00 | -27.58 | peak |
| 4 | | 6756.708 | 10.80 | 35.83 | 41.03 | 46.15 | 51.75 | 74.00 | -22.25 | peak |
| 5 | | 7425.000 | 10.02 | 36.33 | 40.57 | 42.62 | 48.40 | 74.00 | -25.60 | peak |
| 6 | рр | 9900.000 | 10.89 | 37.58 | 37.34 | 40.97 | 52.10 | 74.00 | -21.90 | peak |
| | | | | | | | | | | |



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Mode:a; Polarization:Vertical; Modulation:GFSK; Channel:High



| Condition: | 3m VERTICAL | | | | | |
|------------|-------------|--|--|--|--|--|
| Job No : | 03571CR | | | | | |
| Mode : | 2475 TX RSE | | | | | |
| Note : | | | | | | |

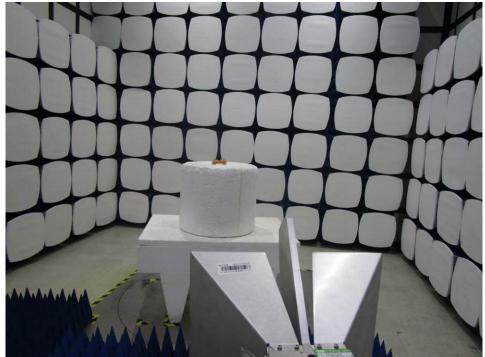
| | Freq | | | Preamp Factor | | | | | Remark |
|---------------------------------|--|--------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|----------------------------------|--------------------------------------|------------------------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB | |
| 2 44 3 49 4 pp 66 5 74 | 515.754 143.453 950.000 521.375 125.000 900.000 | 7.50 8.04 11.19 10.02 | 33.60 34.41 35.45 36.33 | 42.41 42.49 41.13 40.57 | 46.51 46.57 46.59 42.79 | 45.20 46.53 52.10 48.57 | 74.00 74.00 74.00 74.00 | -28.80 -27.47 -21.90 -25.43 | peak peak peak peak |



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8 Photographs

8.1 Radiated Emissions Test Setup



8.2 Radiated Emissions Test Setup



8.3 EUT Constructional Details (EUT Photos) Refer to Appendix External and Internal photos.

- End of the Report -