

Report No.: GZEM200801434002

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FCC ID: 2AW9B-SF-E3959

TEST REPORT

Application No.: GZEM2008014340CR

Applicant: XIAMEN XDL HEALTH & TECHNOLOGY CO., LTD.

Address of Applicant: 159 TONGHONG ROAD, TONGAN, XIAMEN, CHINA

Manufacturer: XIAMEN XDL HEALTH & TECHNOLOGY CO., LTD.

Address of Manufacturer: 159 TONGHONG ROAD, TONGAN, XIAMEN, CHINA

XIAMEN XDL HEALTH & TECHNOLOGY CO., LTD.

Address of Factory: 159 TONGHONG ROAD, TONGAN, XIAMEN, CHINA

Equipment Under Test (EUT): FCC ID: 2AW9B-SF-E3959

EUT Name: Electric Elliptical Trainer **Model No.:** SF-E3959, SF-B0960 ¤

Please refer to section 2 of this report which indicates which model was actually

tested and which were electrically identical.

Trade Mark: SUNNY HEALTH & FITNESS
Standard(s): 47 CFR Part 15, Subpart C 15.249

Date of Receipt: 2020-08-12

Date of Test: 2020-09-09 to 2020-11-18

Date of Issue: 2020-11-24

Test Result: Pass*

Kobe Jian EMC Laboratory Manager



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



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| Revision Record | | | | | |
|-----------------|---------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 01 | | 2020-11-24 | | Original | |
| | | | | | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|-------------------------------|--------------------------------|
| Tested By | Kevin_Zhang /Project Engineer | 2020-09-09 to 2020-11-18 Date |
| Checked By | Ricky Liu /Reviewer | 2020-11-24 Date |



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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** | | |
| **: The EUT passed F | **: The EUT passed Radiated Emissions tests after modification. | | | | | |

¤ Declaration of EUT Family Grouping:

Model No.: SF-E3959, SF-B0960

According to the declaration from the applicant, the electrical circuit design, layout, components used and internal wiring were identical for all models, with only difference on the appearance decoration, appearance color and model No..

Therefore only one model SF-E3959 was tested in this report.



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4 General Information

4.1 Details of E.U.T.

Power Supply: AC 120V, 60Hz for main unit.

DC 3.0V (cell battery) for remote controller

Test Voltage: DC 3.0V

Cable: AC mains (unshielded, 1.8m)

Modulation Type: GFSK Number of Channels: 3

Operation Frequency: 2410MHz, 2440MHz, 2475MHz

Antenna Gain: 0dBi

SN: QB24000000

Hardware Version: QB-1801-00-2.4G-TX V1

Software Version: N/A
Power Setting: N/A

Function: Wireless remote controller used to control Electric Elliptical Trainer.

Remark: There is no intentional transmitting in the main unit.

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 | ±5.5 x 10 ⁻⁸ |
| 2 | Duty cycle | ±0.57% |
| 3 | Occupied Bandwidth | ±3% |
| 4 | RF Conducted power | 0.68dB |
| 5 | RF Power Density | 1.50dB |
| 6 | Conducted Spurious Emissions | 1.04dB |
| 7 | RF Radiated Power | 4.5dB (below 1GHz) |
| / | hr hadiated fower | 4.8dB (above 1GHz) |
| 8 | Padiated Spurious Emission Test | 4.5dB (30MHz-1GHz) |
| 0 | Radiated Spurious Emission Test | 4.8dB (1GHz-18GHz) |
| 9 | Temperature | ±0.4℃ |
| 10 | Humidity | ±1.3% |
| 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., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663

Tel: +86 20 82155555 Fax: +86 20 82075059

No tests were sub-contracted.



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4.5 Test Facility

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

● NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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.

ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian C-Tick mark as a result of our NVLAP accreditation.

SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

● CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

● FCC Recognized 2.948 Listed Test Firm(Registration No.: 282399)

SGS-CSTC Standards Technical Services Co., Ltd., 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 282399, May 31, 2002.

◆FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818, Jul 13, 2017.

● Industry Canada (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

● VCCI (Registration No.: R-12460, C-12584, G-10449 and T-11179)

The 10m Semi-anechoic chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-10449 and T-11179 respectively.

● CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2005, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

The EUT passed Radiated Emissions tests after modification.



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5 Equipment List

| 20dB Bandwidth | | | | | |
|------------------------|---------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer | AgilentTechnologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |
| MI CABLE | SGS-EMC | M8.0 | EMC2137 | 2019-11-02 | 2021-11-01 |

| Field Strength of the Fundamental Signal (15.249(a)) | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2020-01-10 | 2021-01-09 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2020-01-10 | 2021-01-09 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2020-01-10 | 2021-01-09 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2020-01-10 | 2021-01-09 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2020-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
|--|--------------------------------|---------------|--------------|------------|--------------|
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2020-01-10 | 2021-01-09 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2020-01-10 | 2021-01-09 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2020-01-10 | 2021-01-09 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2020-01-10 | 2021-01-09 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2020-01-10 | 2021-01-09 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2020-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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| Radiated Emissions | | | | | |
|--|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2020-01-10 | 2021-01-09 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2020-01-10 | 2021-01-09 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2019-06-28 | 2021-06-27 |
| Trilog Broadband Antenna 25MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | EMC2174 | 2018-09-06 | 2021-09-05 |
| Bi-log Type Antenna | Schaffner Chase | CBL6143 | EMC0519 | 2020-06-08 | 2023-06-07 |
| Horn Antenna | SCHWARZBECKME SS-ELEKTRONIK | BBHA 9120D | EMC2016 | 2019-09-25 | 2022-09-24 |
| Horn Antenna 1GHz-18GHz | Rohde & Schwarz | HF906 | EMC0518 | 2018-09-02 | 2021-09-01 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2020-01-10 | 2021-01-09 |
| Amplifier | HP | 8447F | EMC2065 | 2020-05-26 | 2021-05-25 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2020-11-13 | 2021-11-12 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2021-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2020-01-10 | 2021-01-09 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2020-01-10 | 2021-01-09 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2020-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |

| General used equipment | | | | | |
|------------------------|--------------|----------|---------------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2020-07-09 | 2021-07-08 |
| DMM | Fluke | 73 | EMC0007 | 2020-07-09 | 2021-07-08 |



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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:

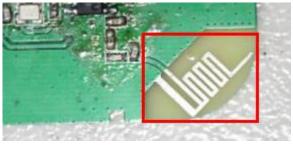
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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

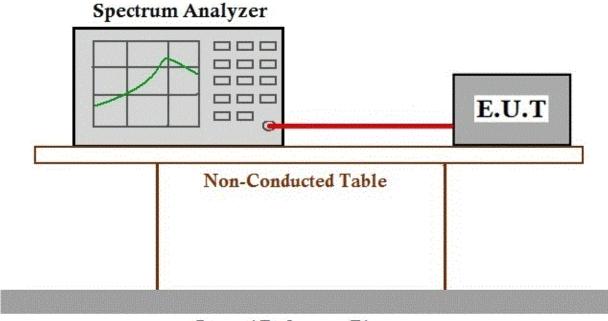
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 24.7 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b: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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Mode:b, Channel: Low



Mode:b, Channel: Middle





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Mode:b, Channel: High





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

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)
Test Method: ANSI C63.10 (2013) Section 6.5&6.6

Measurement Distance: 3m

Limit:

| Fundamental frequency(MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|----------------------------|--|--|
| 902-928 | 50 | 500 |
| 2400-2483.5 | 50 | 500 |
| 5725-5875 | 50 | 500 |
| 24000-24250 | 250 | 2500 |

Remark: The frequencies above 1000MHz 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.



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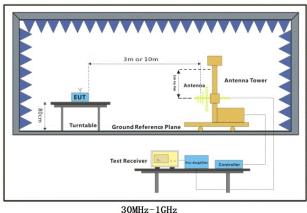
7.2.1 E.U.T. Operation

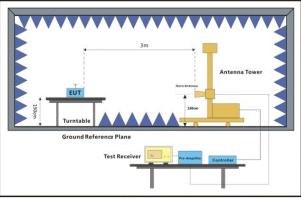
Operating Environment:

Temperature: 22 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode Keep the EUT in transmitting with modulation mode.

7.2.2 Test Setup Diagram





GHz Above 1GHz

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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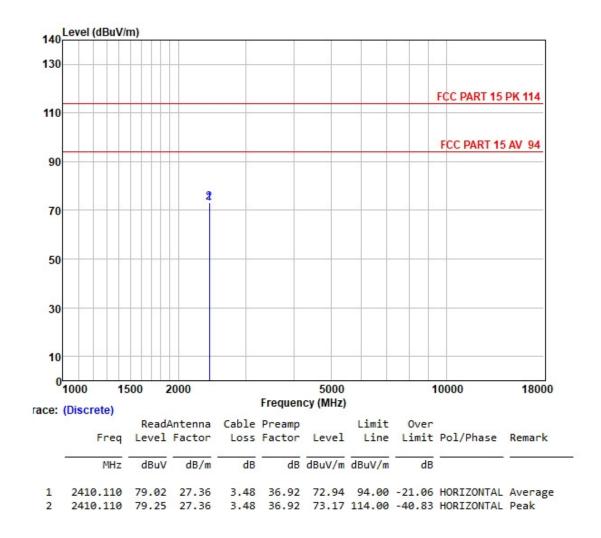
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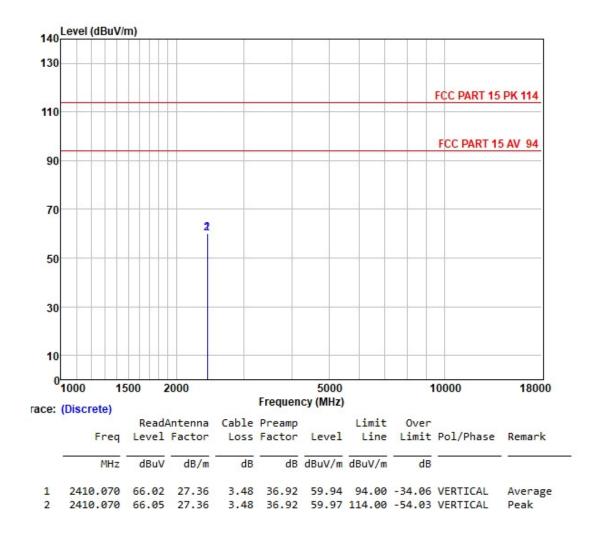
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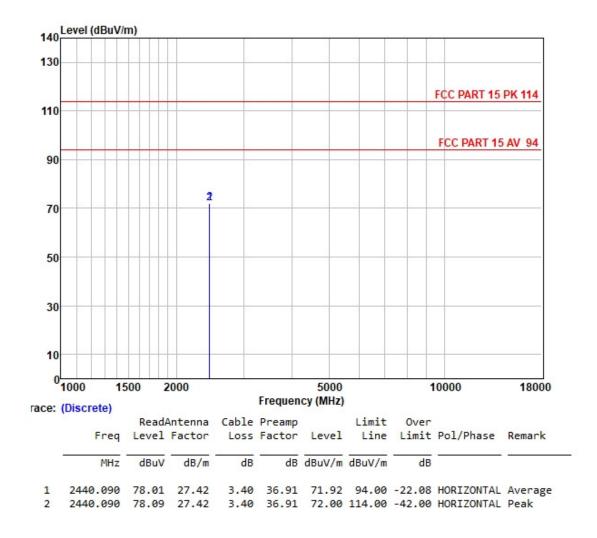
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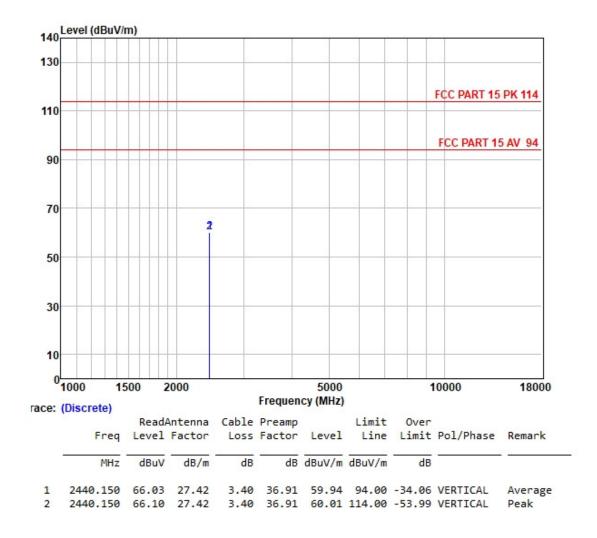
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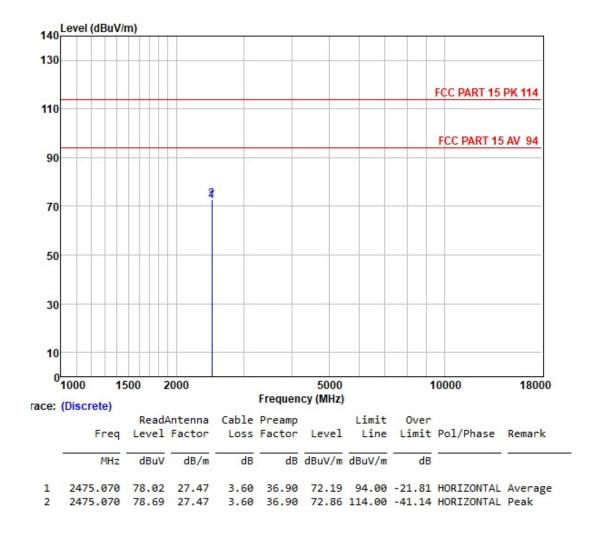
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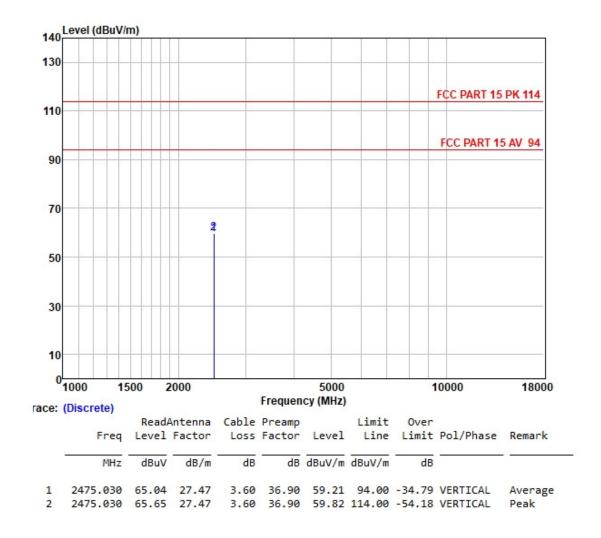
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7.3 Restricted Band Around Fundamental Frequency

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.249(d) & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4&6.5&6.6

Measurement Distance: 3m

Limit:

| 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.



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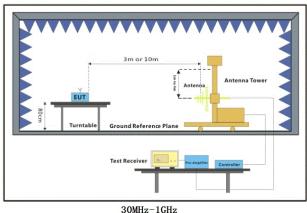
7.3.1 E.U.T. Operation

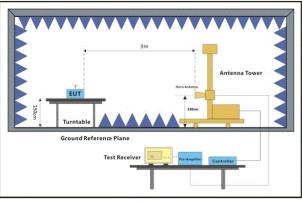
Operating Environment:

Temperature: 22 °C Humidity: 55 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode Keep the EUT in transmitting with modulation mode.

7.3.2 Test Setup Diagram





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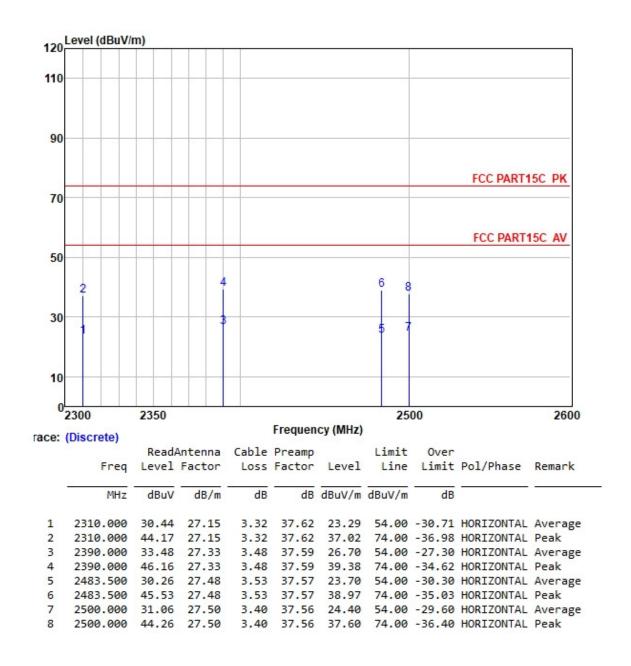
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low





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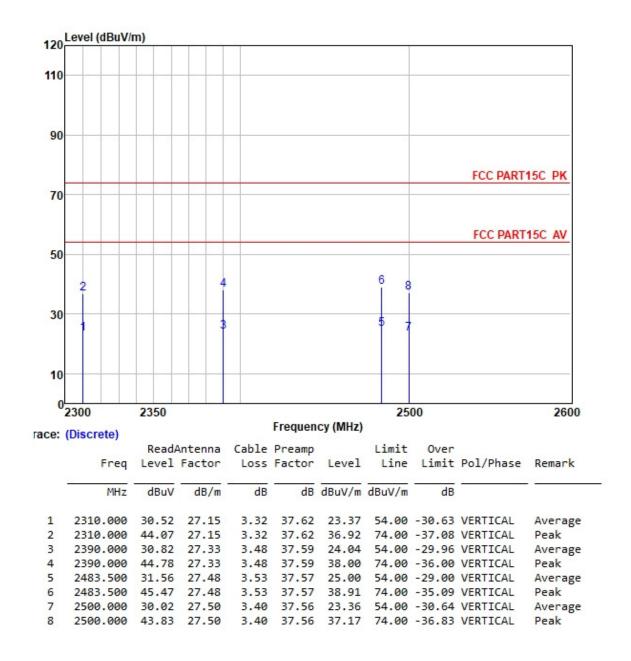
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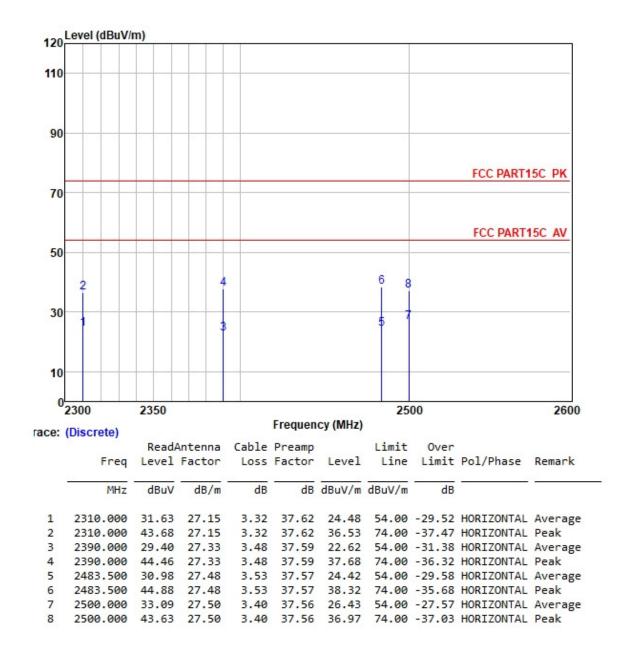
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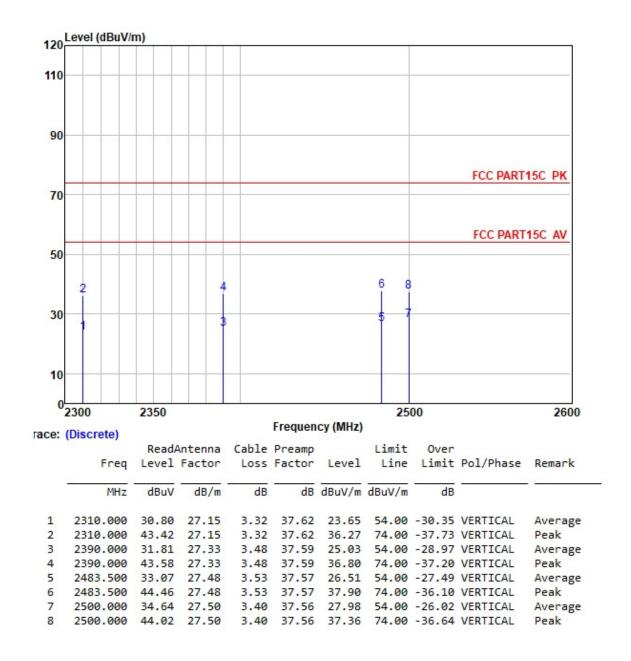
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7.4 Radiated Emissions

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 |



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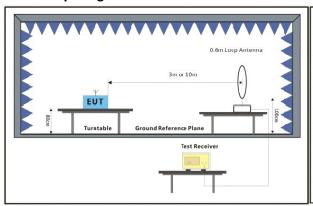
7.4.1 E.U.T. Operation

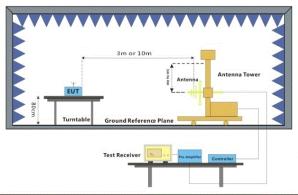
Operating Environment:

Temperature: 22 °C Humidity: 52 % RH Atmospheric Pressure: 1020 mbar

Test Mode: b:TX mode Keep the EUT in transmitting with modulation mode.

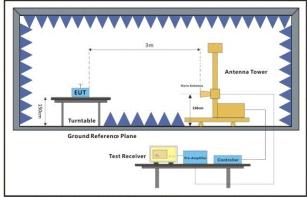
7.4.2 Test Setup Diagram





Below 30MHz

30MHz-1GHz



Above 1GHz



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7.4.3 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:

- 1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.
- 2) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level =Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

- 3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.
- 4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown



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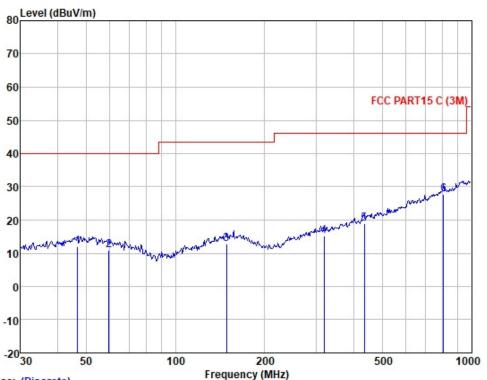
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS

Condition: FCC PART15 C (3M) 3m HORIZONTAL

Job : Model : Power : Test Mode:

| | louc. | | | | | | | | | | |
|---|---------|-----------------------------|-------|-----------------------------|-------|--------|--------|--------|------------|--------|--|
| | Freq | ReadAntenna Level Factor | | Cable Preamp Loss Factor | | | | | Pol/Phase | Remark | |
| 3 | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | - | | |
| 1 | 46.666 | 24.00 | 13.93 | 1.19 | 27.17 | 11.95 | 40.00 | -28.05 | HORIZONTAL | QP | |
| 2 | 59.649 | 23.40 | 13.44 | 1.32 | 27.16 | 11.00 | 40.00 | -29.00 | HORIZONTAL | QP | |
| 3 | 148.963 | 23.94 | 13.75 | 2.05 | 26.84 | 12.90 | 43.50 | -30.60 | HORIZONTAL | QP | |
| 4 | 317.701 | 24.60 | 14.20 | 3.00 | 26.65 | 15.15 | 46.00 | -30.85 | HORIZONTAL | QP | |
| 5 | 434.065 | 25.84 | 16.85 | 3.81 | 27.53 | 18.97 | 46.00 | -27.03 | HORIZONTAL | QP | |
| 6 | 804.603 | 27.05 | 22.65 | 5.99 | 28.03 | 27.66 | 46.00 | -18.34 | HORIZONTAL | OP | |



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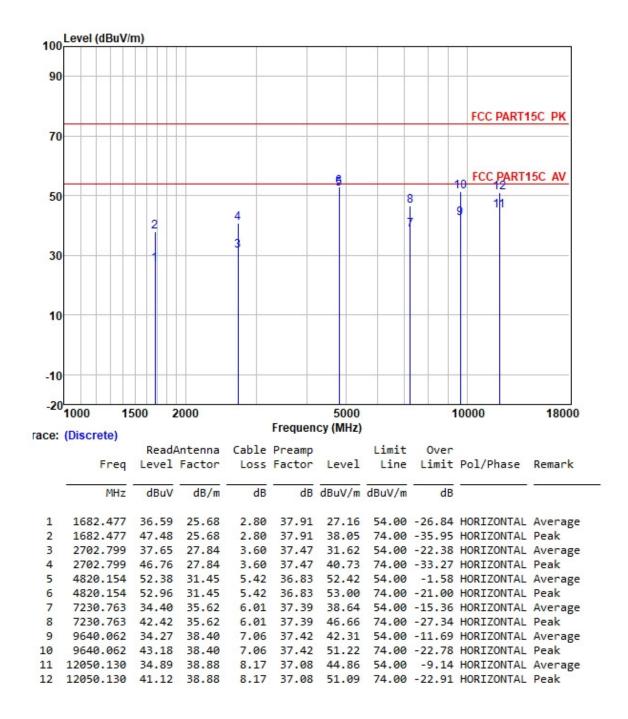
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:Low





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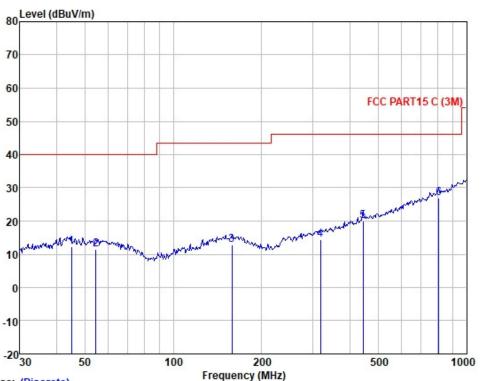
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:Low



Trace: (Discrete)

Site : SGS

Condition: FCC PART15 C (3M) 3m VERTICAL

Job : Model : Power : Test Mode:

| | Freq | ReadA Freq Level | | | | | Limit Line | | | Remark |
|---|---------|---------------------|-------|------|-------|--------|---------------|--------|----------|--------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | - | |
| 1 | 45.058 | 24.33 | 13.85 | 1.19 | 27.17 | 12.20 | 40.00 | -27.80 | VERTICAL | QP |
| 2 | 54.452 | 23.67 | 13.78 | 1.26 | 27.16 | 11.55 | 40.00 | -28.45 | VERTICAL | QP |
| 3 | 158.668 | 23.78 | 13.67 | 2.13 | 26.80 | 12.78 | 43.50 | -30.72 | VERTICAL | QP |
| 4 | 317.701 | 23.75 | 14.20 | 3.00 | 26.65 | 14.30 | 46.00 | -31.70 | VERTICAL | QP |
| 5 | 443.294 | 26.58 | 17.13 | 3.97 | 27.61 | 20.07 | 46.00 | -25.93 | VERTICAL | QP |
| 6 | 804.603 | 26.20 | 22.65 | 5.99 | 28.03 | 26.81 | 46.00 | -19.19 | VERTICAL | OP |



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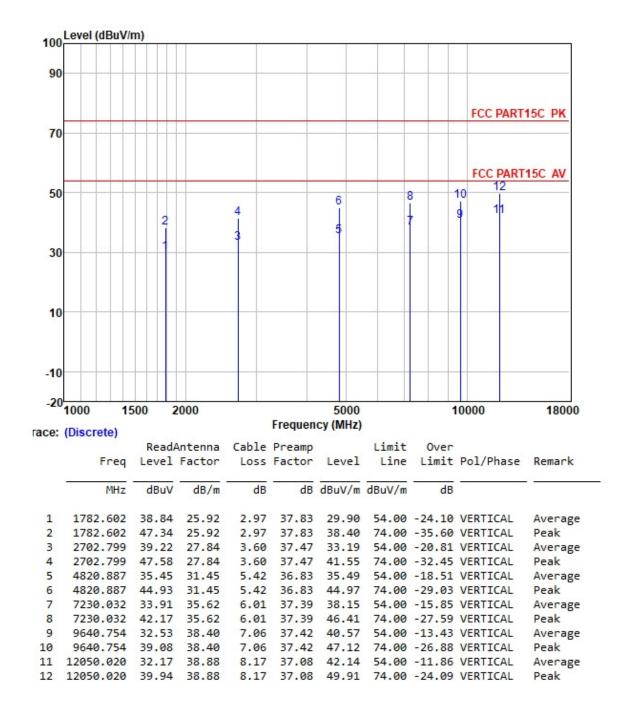
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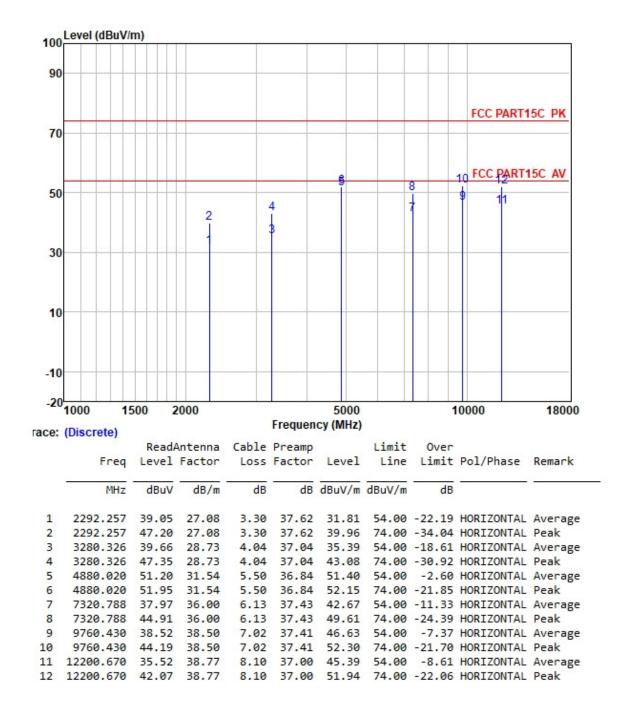
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Mode:b; Polarization:Horizontal; Modulation:GFSK; ; Channel:middle





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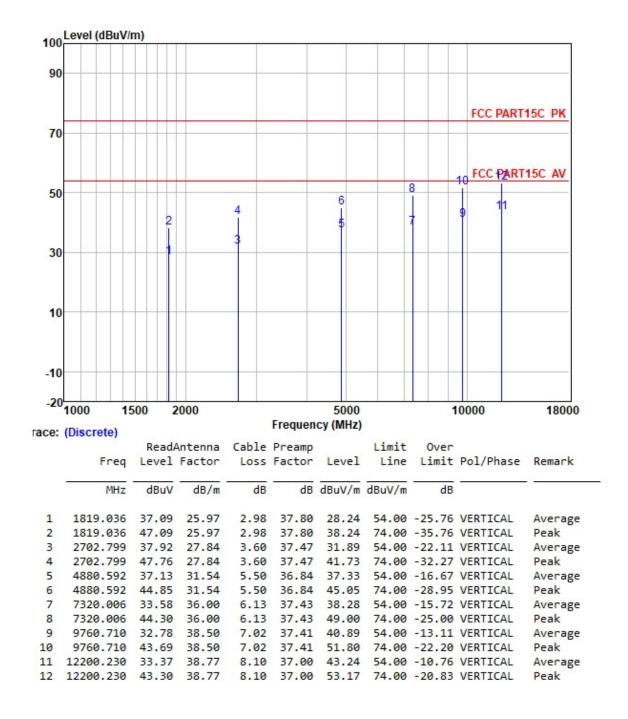
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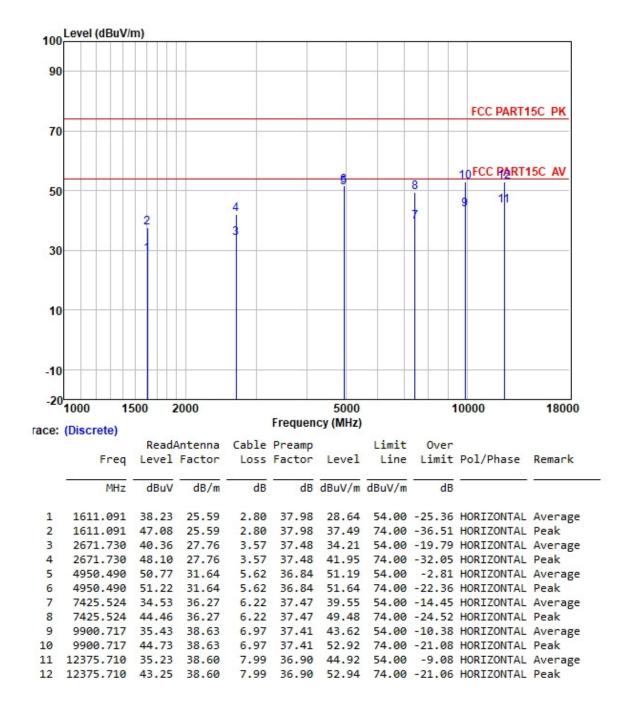
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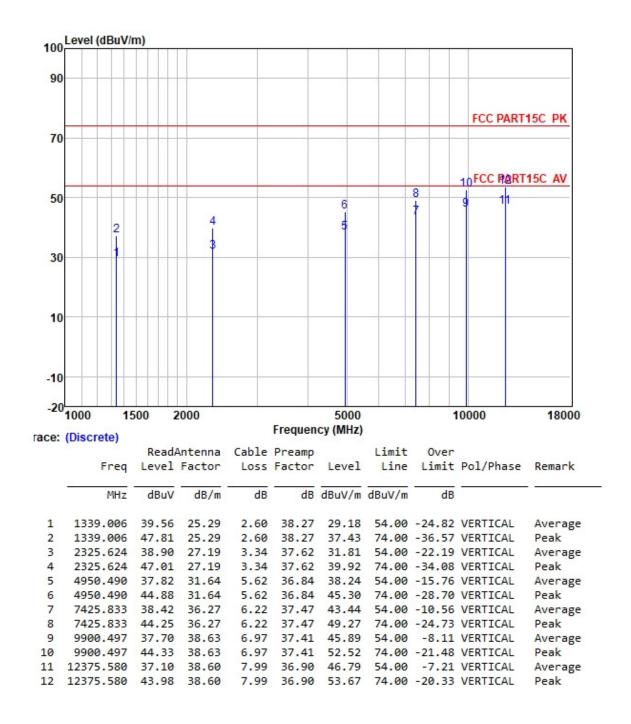
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Mode:b; Polarization:Vertical; Modulation:GFSK; ; Channel:High



--End of Report--



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