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Report No.: GZEM190501253402
 Page: 1 of 37
 FCC ID: 2AAODBMO650

TEST REPORT

Application No.: GZEM1905012534HS
Applicant: BREVILLE PTY LTD
Address of Applicant: Suite 2, 170-180 Bourke Rd, Alexandria, NSW 2015, Australia
Manufacturer: Guangdong Midea Kitchen Appliance Manufacturing Co. Ltd.
Address of Manufacturer: No.6 Yong An Road, Beijiao, Shunde, Foshan, Guangdong
Factory: Guangdong Midea Kitchen Appliance Manufacturing Co. Ltd.
Address of Factory: No.6 Yong An Road, Beijiao, Shunde, Foshan, Guangdong
Equipment Under Test (EUT):
FCC ID: 2AAODBMO650
EUT Name: Benchtop Microwave
Model No.: BMO650SIL
Trade Mark: Breville
Standard(s) : 47 CFR Part 18
Date of Receipt: 2019-06-27
Date of Test: 2019-06-27 to 2019-07-05
Date of Issue: 2019-07-12

| | |
|---------------------|--------------|
| Test Result: | Pass* |
|---------------------|--------------|

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

Kobe Jian

Kobe Jian
 Lab 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 | Chapter | Date | Modifier | Remark |
| 01 | | 2019-07-12 | | Original |
| | | | | |
| | | | | |
| | | | | |

| | | | |
|---------------------------------|-------------------------------------|--|--------------------------|
| Authorized for issue by: | | | |
| Tested By | | | 2019-06-27 to 2019-07-05 |
| | Damon_Guan /Project Engineer | | Date |
| Checked By | | | 2019-07-12 |
| | Terry_Lai /Reviewer | | Date |



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2 Test Summary

| Emission Part | | | | |
|---|----------------|-------------------|-------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at Mains Terminals (150kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | N/A | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | N/A | Pass |
| Radiated Emissions (above 1GHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | N/A | Pass |
| Radiated Emissions (Magnetic field Strength) (9kHz-30MHz) | 47 CFR Part 18 | FCC OST/MP-5:1986 | N/A | Pass |
| Operating Frequency | 47 CFR Part 18 | FCC OST/MP-5:1986 | N/A | Pass |

N/A: Not Applicable



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4 General Information

4.1 Details of E.U.T.

| | |
|---------------|--|
| Power Supply: | AC 120V 60Hz Microwave input power:1350W Microwave output power:900W |
| Test Voltage: | AC 120V 60Hz |
| Cable: | About 1.1m x 3 wires unscreened AC mains cable. |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|---|--------------|-----------|------------|
| 1000mL of water in the beaker for power output and frequency measurement. | / | / | / |
| One of 700 and the other of 300mL of water for second and third harmonic radiation measurement. | / | / | / |
| 700mL of water for all other measurement | / | / | / |

4.3 Measurement Uncertainty

EMC

| No. | Item | Measurement Uncertainty |
|-----|--|---------------------------|
| 1 | Conducted Disturbance Voltage at Mains Terminals | ±3.63dB (9kHz to 150kHz) |
| | | ±3.22dB (150kHz to 30MHz) |
| 2 | Disturbance Power | ±3.78dB |
| 3 | Radiated Emissions | ±5.0dB (30MHz-1GHz) |
| | | ±5.0dB (1GHz-6GHz) |
| 4 | Temperature | ±0.4 °C |
| 5 | Humidity | ±1.3% |
| 6 | DC power | ±0.5 % |

4.4 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory,
198 Kezhu Road, Sciencetech 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-CL01:2006 accreditation criteria for testing laboratories (identical to

ISO/IEC 17025:2005 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

None



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5 Equipment List

| Conducted Emissions at Mains Terminals (150kHz-30MHz) | | | | | |
|---|-----------------|----------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Shielding Room | Zhong Yu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A |
| Two-Line V-Netwok | R&S | ENV216 | EMC0118 | 2019-01-11 | 2020-01-10 |
| LISN | R&S | ENV216 | EMC2135 | 2018-09-21 | 2019-09-20 |
| EMI Test Receiver | Rohde & Schwarz | ESCS30 | EMC0506 | 2018-11-19 | 2019-11-18 |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2017-07-23 | 2019-07-22 |
| Voltage Probe | SGS | N/A | EMC0106 | 2018-04-04 | 2020-04-03 |
| Conical Metal Housing | SGS-EMC | N/A | EMC0167 | 2018-04-19 | 2020-04-18 |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A |



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| Radiated Emissions (30MHz-1GHz) | | | | | |
|--|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2019-01-20 | 2020-01-19 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2019-01-20 | 2020-01-19 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2018-09-20 | 2020-09-20 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9160 | EMC2025 | 2016-09-08 | 2019-09-07 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6112B | EMC0524 | 2016-09-08 | 2019-09-07 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6143 | EMC0519 | 2017-05-04 | 2020-05-03 |
| Horn Antenna 1GHz-18GHz | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2016-09-09 | 2019-09-08 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2019-01-11 | 2020-01-10 |
| Amplifier | HP | 8447F | EMC2065 | 2019-05-29 | 2020-05-28 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2018-11-19 | 2019-11-18 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2020-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2019-01-11 | 2020-01-10 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2019-01-11 | 2020-01-10 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2018-12-08 | 2019-12-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2019-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2018-11-19 | 2019-11-18 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2018-11-19 | 2019-11-18 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |



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| Radiated Emissions (above 1GHz) | | | | | |
|--|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2019-01-20 | 2020-01-19 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2019-01-20 | 2020-01-19 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2018-09-20 | 2020-09-20 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9160 | EMC2025 | 2016-09-08 | 2019-09-07 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6112B | EMC0524 | 2016-09-08 | 2019-09-07 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6143 | EMC0519 | 2017-05-04 | 2020-05-03 |
| Horn Antenna 1GHz-18GHz | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2016-09-09 | 2019-09-08 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2019-01-07 | 2020-01-08 |
| Amplifier | HP | 8447F | EMC2065 | 2019-05-29 | 2020-05-28 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2018-11-19 | 2019-11-18 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2020-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2019-01-11 | 2020-01-10 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2019-01-11 | 2020-01-10 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2018-12-08 | 2019-12-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2019-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2018-11-19 | 2019-11-18 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2018-11-19 | 2019-11-18 |
| 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 (Magnetic field Strength) (9kHz-30MHz) | | | | | |
|--|-----------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver | Rohde & Schwarz | ESIB26 | EMC0522 | 2019-01-20 | 2020-01-19 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EMC0056 | 2019-01-20 | 2020-01-19 |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2018-09-20 | 2020-09-20 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9160 | EMC2025 | 2016-09-08 | 2019-09-07 |
| Trilog Broadband Antenna 30MHz-1GHz | SCHWARZBECKME SS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6112B | EMC0524 | 2016-09-08 | 2019-09-07 |
| Bi-log Type Antenna | Schaffner -Chase | CBL6143 | EMC0519 | 2017-05-04 | 2020-05-03 |
| Horn Antenna 1GHz-18GHz | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2016-09-09 | 2019-09-08 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2019-01-11 | 2020-01-10 |
| Amplifier | HP | 8447F | EMC2065 | 2019-05-29 | 2020-05-28 |
| Pre-Amplifier MH648A | ANRITSU CORP | MH648A | EMC2086 | 2018-11-19 | 2019-11-18 |
| Active Loop Antenna | EMCO | 6502 | EMC0523 | 2018-03-05 | 2020-03-04 |
| High Pass Filter(915MHz) | FSY MICROWAVE | HM1465-9SS | EMC2079 | 2019-01-11 | 2020-01-10 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2019-01-11 | 2020-01-10 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2018-12-08 | 2019-12-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2017-12-19 | 2019-12-18 |
| MXE EMI Receiver | Keysight | N9038A | EMC2139 | 2018-11-19 | 2019-11-18 |
| EXA Signal Analyzer | Keysight | N9010A | EMC2138 | 2018-11-19 | 2019-11-18 |
| 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 | 2018-07-20 | 2019-07-19 |
| DMM | Fluke | 73 | EMC0007 | 2018-07-19 | 2019-07-18 |



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 Guangzhou Branch Testing & Calibration Laboratory 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

6 Emission Test Results

6.1 Conducted Emissions at Mains Terminals (150kHz-30MHz)

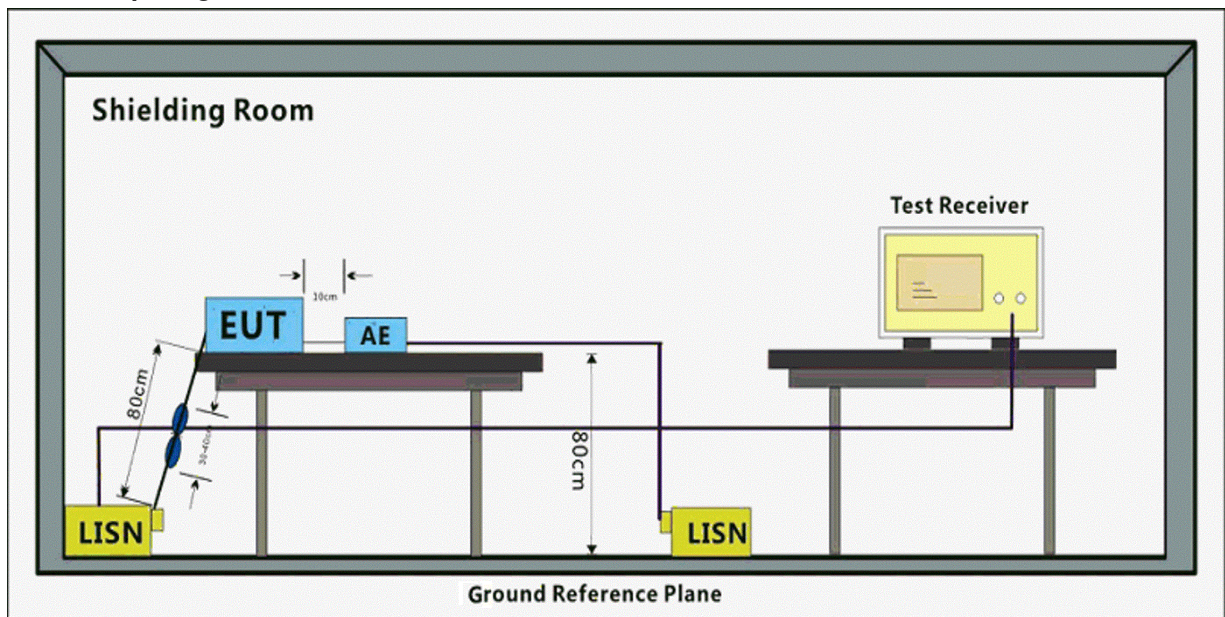
| | |
|-------------------|--|
| Test Requirement: | 47 CFR Part 18 |
| Test Method: | FCC OST/MP-5:1986 |
| Frequency Range: | 150kHz to 30MHz |
| Limit: | |
| 0.15M-0.5MHz | 66dB(μV)-56dB(μV) quasi-peak, 56dB(μV)-46dB(μV) average |
| 0.5M-5MHz | 56dB(μV) quasi-peak, 46dB(μV) average |
| 5M-30MHz | 60dB(μV) quasi-peak, 50dB(μV) average |
| Detector: | Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz |

6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.5 °C Humidity: 52.5 % RH Atmospheric Pressure: 1021 mbar
 Test mode a: Test the EUT in microwave mode with maximum power.

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

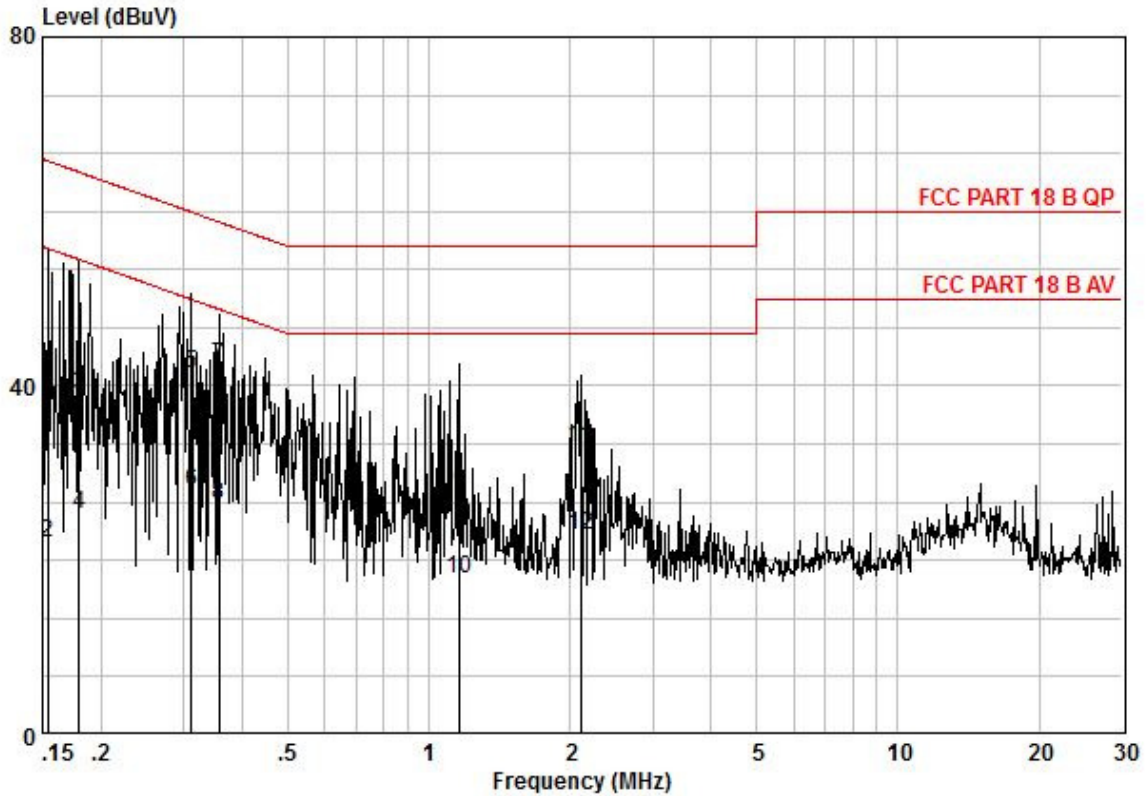
An initial pre-scan was performed with peak detector. Quasi-Peak or Average measurement were performed at the frequencies with maximized peak emission were detected.

Measured Level = Read level + Cable Loss + LISN Factor



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Mode:a; Line:Live Line



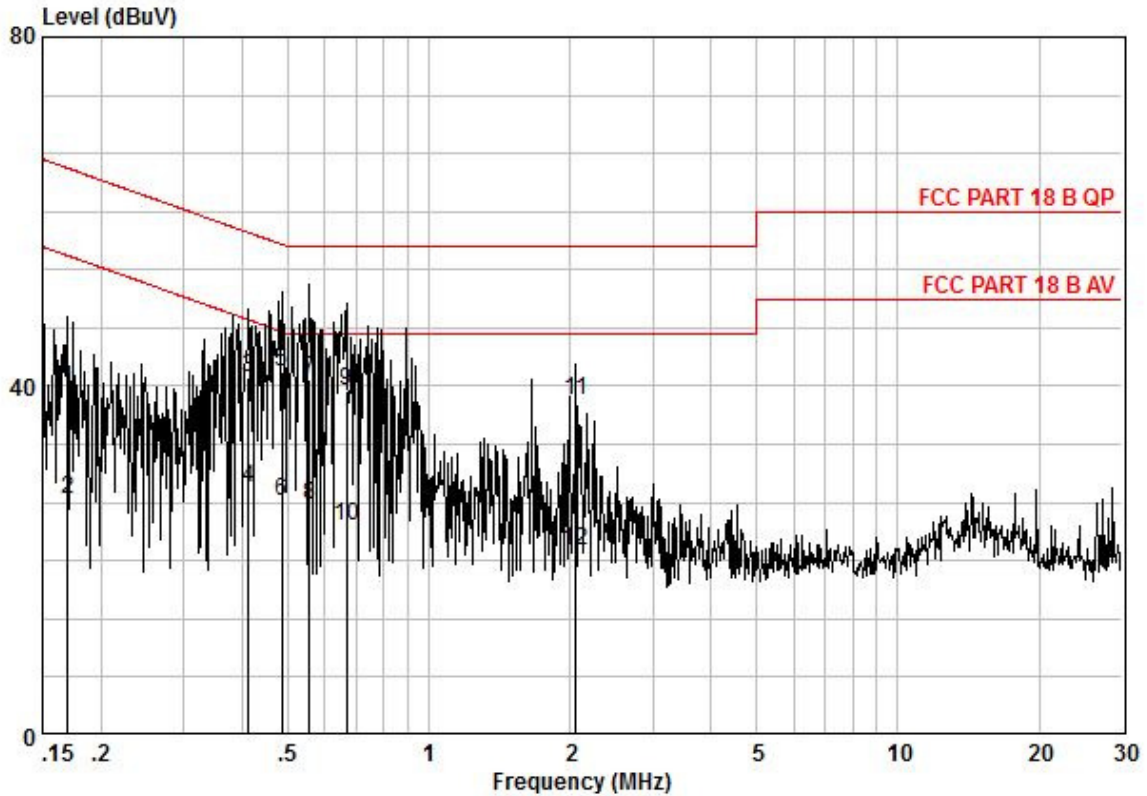
Pol :LIVE
 No :RT
 Model :

| Frequency MHz | read level dBuV | Cable Loss dB | LISN Factor dB | Measured level dBuV | Limit Line dBuV | Over limit dB | Remark |
|---------------|-----------------|---------------|----------------|---------------------|-----------------|---------------|---------|
| 0.15 | 26.86 | 0.10 | 9.67 | 36.63 | 65.78 | -29.15 | QP |
| 0.15 | 12.19 | 0.10 | 9.67 | 21.96 | 55.78 | -33.82 | AVERAGE |
| 0.18 | 29.23 | 0.10 | 9.66 | 38.99 | 64.50 | -25.51 | QP |
| 0.18 | 15.52 | 0.10 | 9.66 | 25.28 | 54.50 | -29.22 | AVERAGE |
| 0.31 | 31.57 | 0.10 | 9.67 | 41.34 | 59.93 | -18.59 | QP |
| 0.31 | 18.06 | 0.10 | 9.67 | 27.83 | 49.93 | -22.10 | AVERAGE |
| 0.36 | 32.43 | 0.10 | 9.66 | 42.19 | 58.78 | -16.59 | QP |
| 0.36 | 16.68 | 0.10 | 9.66 | 26.44 | 48.78 | -22.34 | AVERAGE |
| 1.17 | 17.96 | 0.10 | 9.68 | 27.74 | 56.00 | -28.26 | QP |
| 1.17 | 8.19 | 0.10 | 9.68 | 17.97 | 46.00 | -28.03 | AVERAGE |
| 2.11 | 23.04 | 0.11 | 9.69 | 32.84 | 56.00 | -23.16 | QP |
| 2.11 | 13.16 | 0.11 | 9.69 | 22.96 | 46.00 | -23.04 | AVERAGE |



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Mode:a; Line:Neutral Line



Pol : NEUTRAL
 No : RT
 Model :

| Frequency MHz | read level dBuV | Cable Loss dB | LISN Factor dB | Measured level dBuV | Limit Line dBuV | Over limit dB | Remark |
|---------------|-----------------|---------------|----------------|---------------------|-----------------|---------------|---------|
| 0.17 | 29.88 | 0.10 | 9.60 | 39.58 | 64.99 | -25.41 | QP |
| 0.17 | 17.41 | 0.10 | 9.60 | 27.11 | 54.99 | -27.88 | AVERAGE |
| 0.41 | 31.30 | 0.10 | 9.59 | 40.99 | 57.59 | -16.60 | QP |
| 0.41 | 18.66 | 0.10 | 9.59 | 28.35 | 47.59 | -19.24 | AVERAGE |
| 0.49 | 31.95 | 0.10 | 9.60 | 41.65 | 56.23 | -14.58 | QP |
| 0.49 | 17.09 | 0.10 | 9.60 | 26.79 | 46.23 | -19.44 | AVERAGE |
| 0.56 | 30.96 | 0.10 | 9.60 | 40.66 | 56.00 | -15.34 | QP |
| 0.56 | 16.59 | 0.10 | 9.60 | 26.29 | 46.00 | -19.71 | AVERAGE |
| 0.67 | 29.68 | 0.10 | 9.60 | 39.38 | 56.00 | -16.62 | QP |
| 0.67 | 14.18 | 0.10 | 9.60 | 23.88 | 46.00 | -22.12 | AVERAGE |
| 2.05 | 28.57 | 0.11 | 9.62 | 38.30 | 56.00 | -17.70 | QP |
| 2.05 | 11.46 | 0.11 | 9.62 | 21.19 | 46.00 | -24.81 | AVERAGE |



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6.2 Operating Frequency

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 2400-2500 MHz
Detector: Peak
Limit:

ISM equipment may be operated on any frequency above 9 kHz.

And the frequency band 2400-2500MHz is allocated for use by ISM equipment.
(§18.301)

| ISM frequency | Tolerance |
|---------------|-----------|
| 6.78MHz | ±15.0kHz |
| 13.56MHz | ±7.0kHz |
| 27.12MHz | ±163.0kHz |
| 40.68MHz | ±20.0kHz |
| 915MHz | ±13.0MHz |
| 2450MHz | ±50.0MHz |
| 5800MHz | ±75.0MHz |
| 24125MHz | ±125.0MHz |
| 61.25GHz | ±250.0MHz |
| 122.5GHz | ±500.0MHz |
| 245.00GHz | ±1.0GHz |

6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22.4 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar

Test mode a: Test the EUT in microwave mode with maximum power.

6.2.2 Measurement Data

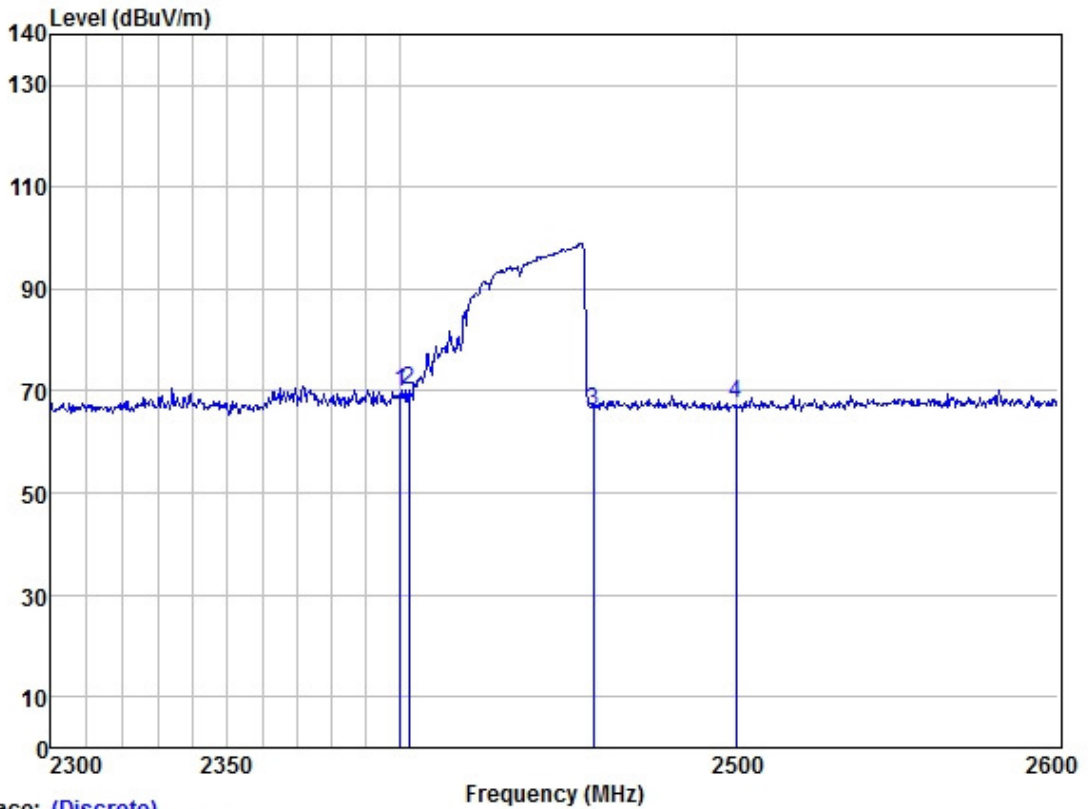
| Polarization | ISM frequency(MHz) | Tolerance(MHz) | Measurement Data(MHz) |
|--------------|--------------------|----------------|-----------------------|
| Horizontal | 2450 | ±50 | 2402.3-2456.8 |
| Vertical | 2450 | ±50 | 2401.7-2458.0 |



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Mode:a; Polarization:Horizontal



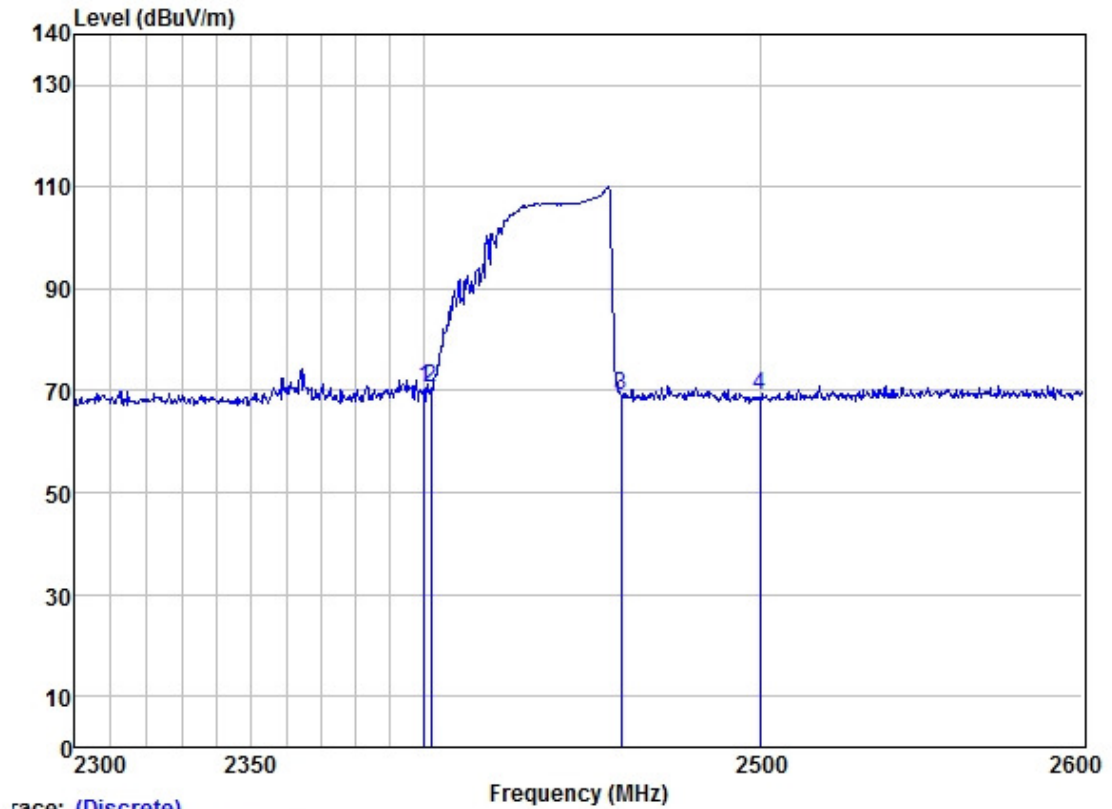
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|-----------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2400.000 | 38.54 | 26.45 | 4.86 | 0.00 | 69.85 | ----- | ----- | HORIZONTAL Peak |
| 2 | 2402.315 | 38.79 | 26.45 | 4.86 | 0.00 | 70.10 | ----- | ----- | HORIZONTAL Peak |
| 3 | 2456.823 | 34.94 | 26.54 | 4.75 | 0.00 | 66.23 | ----- | ----- | HORIZONTAL Peak |
| 4 | 2500.000 | 36.08 | 26.60 | 4.95 | 0.00 | 67.63 | ----- | ----- | HORIZONTAL Peak |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|---------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 2400.000 | 39.31 | 26.45 | 4.86 | 0.00 | 70.62 | ----- | ----- | VERTICAL Peak |
| 2 | 2401.726 | 39.36 | 26.45 | 4.86 | 0.00 | 70.67 | ----- | ----- | VERTICAL Peak |
| 3 | 2458.028 | 37.92 | 26.54 | 4.75 | 0.00 | 69.21 | ----- | ----- | VERTICAL Peak |
| 4 | 2500.000 | 37.40 | 26.60 | 4.95 | 0.00 | 68.95 | ----- | ----- | VERTICAL Peak |



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6.3 RF Output Power Measurement

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986

6.3.1 E.U.T. Operation

Operating Environment:
Temperature: 20.6 °C Humidity: 54.8 % RH Atmospheric Pressure: 1020 mbar
Test mode a: Test the EUT in microwave mode with maximum power.

6.3.2 Measurement Data

| Mass of water (g) | Mass of the container (g) | Ambient temperature (°C) | Initial temperature (°C) | Final temperature (°C) | Heating time(S) | Power output (watts) |
|-------------------|---------------------------|--------------------------|--------------------------|------------------------|-----------------|----------------------|
| 1000 | 368 | 20.6 | 20.1 | 44.9 | 125 | 872.6 |

Formula :

$$P = \frac{4,187 \cdot m_w (T_2 - T_1) + 0,55 \cdot m_c (T_2 - T_0)}{t}$$

NOTE :

- P** is the microwave power output, in watts
- m_w** is the mass of the water, in grams
- m_c** is the mass of the container, in grams
- T₀** is the ambient temperature, in degrees Celsius
- T₁** is the initial temperature of the water, in degrees Celsius
- T₂** is the final temperature of the water, in degrees Celsius
- t** is the heating time, in seconds, excluding the magnetron filament heating-up time.



6.4 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 30MHz to 1GHz
Measurement Distance: 3m
Detector: Peak for pre-scan, Average for the final result
(100 kHz Resolution Bandwidth for 30MHz to 1,000MHz)
Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =872.6 W according to clause6.3.2

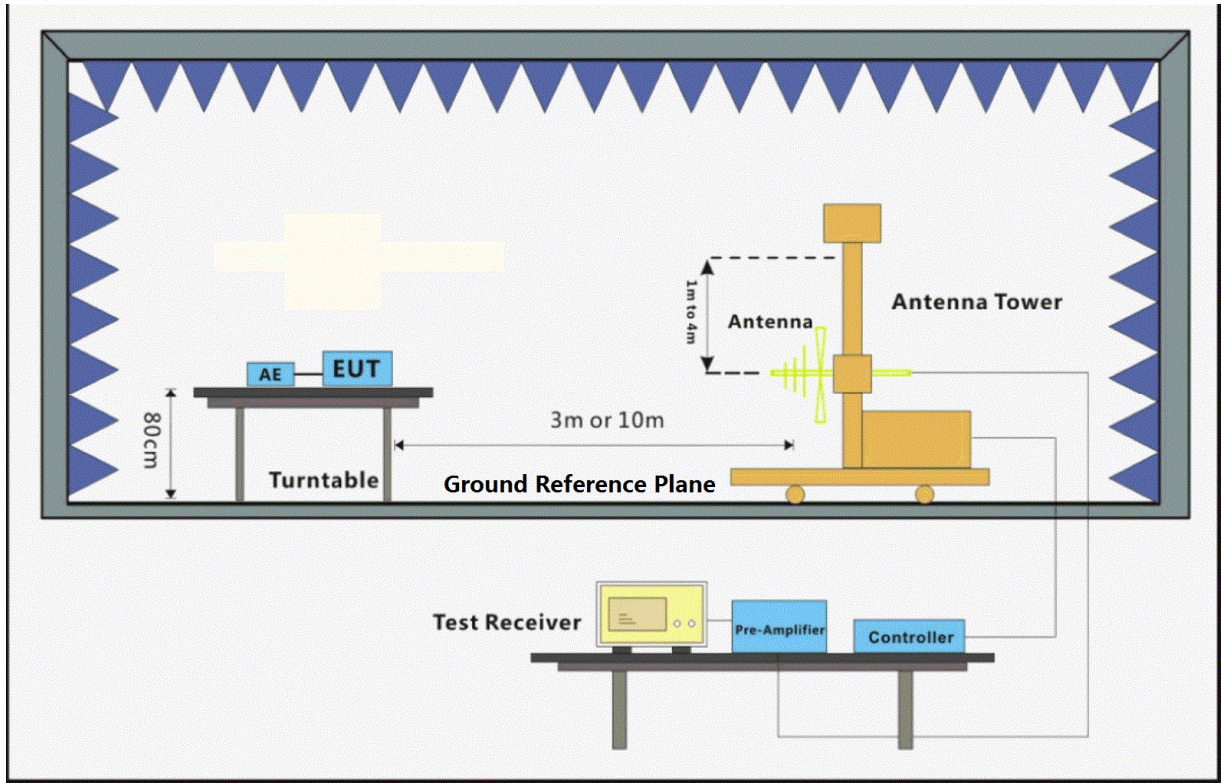
Limit=20lg(25*SQRT(power/500))+20lg(300/3)=30.38+40=70.38dBuV/m @ 3m distance.

6.4.1 E.U.T. Operation

Operating Environment:
Temperature: 22.4 °C Humidity: 56.2 % RH Atmospheric Pressure: 1020 mbar
Test mode a: Test the EUT in microwave mode with maximum power.



6.4.2 Test Setup Diagram



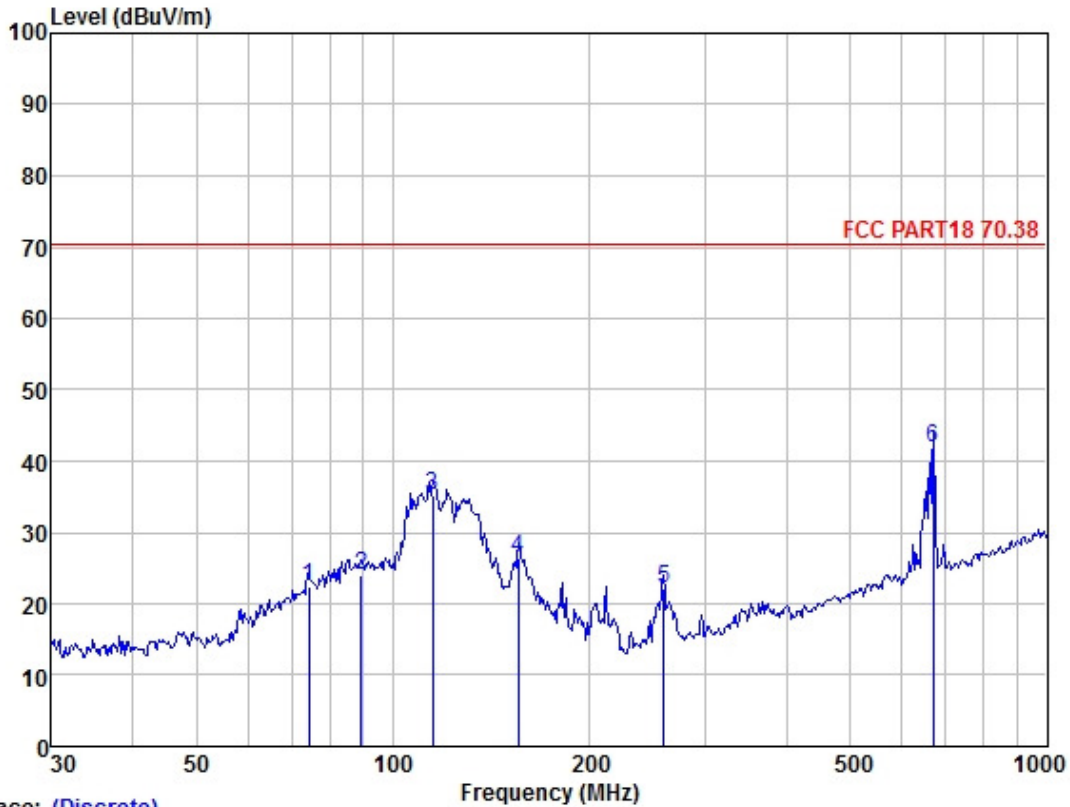
6.4.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

$$\text{Level} = \text{Read Level} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamp Factor}$$



Mode:a; Polarization:Horizontal



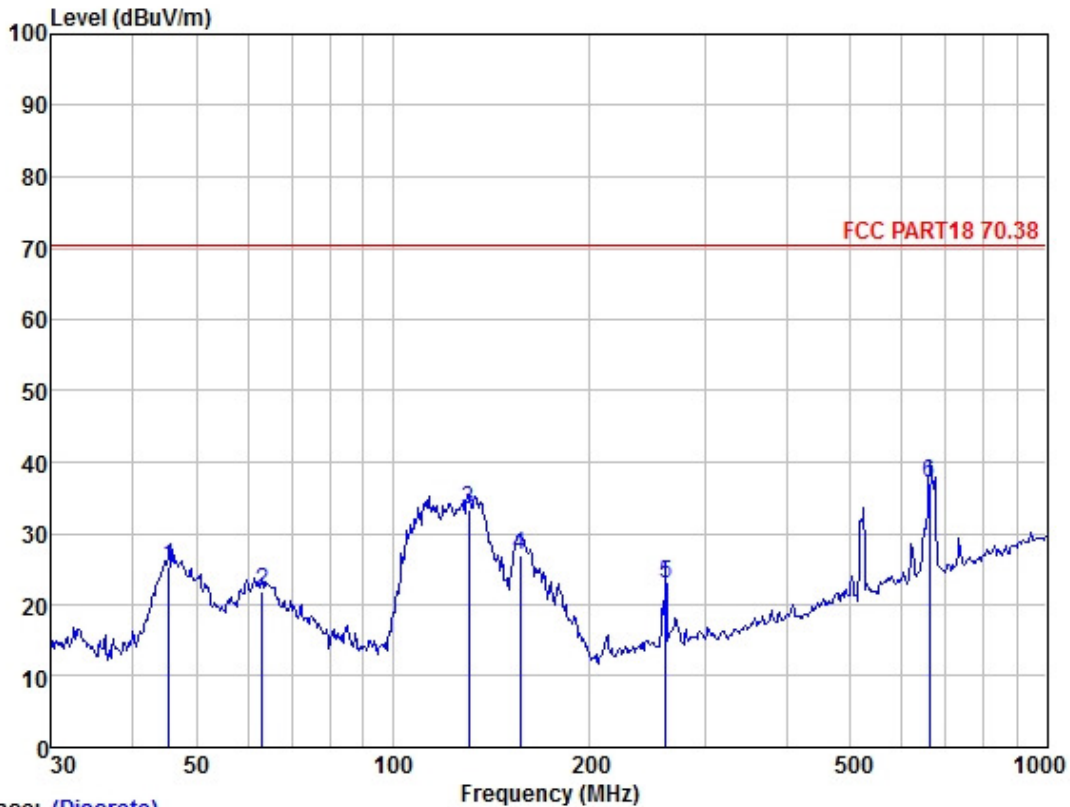
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|--------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 74.396 | 36.60 | 11.42 | 0.90 | 26.43 | 22.49 | 70.38 | -47.89 | HORIZONTAL Average |
| 2 | 89.276 | 41.91 | 7.58 | 1.00 | 26.41 | 24.08 | 70.38 | -46.30 | HORIZONTAL Average |
| 3 | 114.917 | 49.58 | 10.72 | 1.18 | 26.40 | 35.08 | 70.38 | -35.30 | HORIZONTAL Average |
| 4 | 155.364 | 37.98 | 13.59 | 1.32 | 26.44 | 26.45 | 70.38 | -43.93 | HORIZONTAL Average |
| 5 | 259.234 | 34.36 | 12.69 | 1.68 | 26.60 | 22.13 | 70.38 | -48.25 | HORIZONTAL Average |
| 6 | 670.489 | 45.46 | 21.10 | 2.78 | 27.34 | 42.00 | 70.38 | -28.38 | HORIZONTAL Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

| | Freq | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|---|---------|-------------|-------|--------|-------|--------|-----------|--------|----------|---------|
| | MHz | Level | Loss | Factor | Line | Limit | Pol/Phase | Remark | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 45.375 | 36.88 | 14.19 | 0.70 | 26.51 | 25.26 | 70.38 | -45.12 | VERTICAL | Average |
| 2 | 63.092 | 33.67 | 13.75 | 0.80 | 26.48 | 21.74 | 70.38 | -48.64 | VERTICAL | Average |
| 3 | 130.379 | 46.43 | 12.16 | 1.23 | 26.41 | 33.41 | 70.38 | -36.97 | VERTICAL | Average |
| 4 | 156.458 | 38.30 | 13.62 | 1.32 | 26.44 | 26.80 | 70.38 | -43.58 | VERTICAL | Average |
| 5 | 261.058 | 35.18 | 12.73 | 1.68 | 26.60 | 22.99 | 70.38 | -47.39 | VERTICAL | Average |
| 6 | 661.151 | 40.56 | 21.00 | 2.75 | 27.35 | 36.96 | 70.38 | -33.42 | VERTICAL | Average |



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6.5 Radiated Emissions (above 1GHz)

- Test Requirement: 47 CFR Part 18
- Test Method: FCC OST/MP-5:1986
- Frequency Range: Above 1GHz
- Measurement Distance: 3m
- Detector: Peak for pre-scan, Average for the final result
 (1 MHz Resolution Bandwidth for 1,000MHz to 25,000MHz)
- Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
 (b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

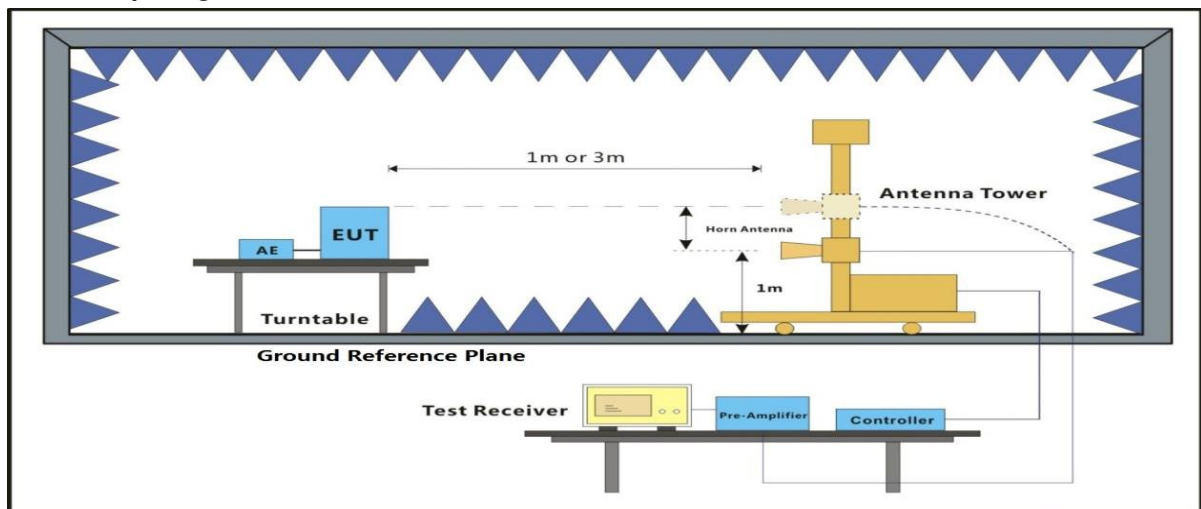
Power =872.6 W according to clause6.3.2

Limit=20lg(25*SQRT(power/500))+20lg(300/3)=30.38+40=70.38dBuV/m @ 3m distance.

6.5.1 E.U.T. Operation

- Operating Environment:
 - Temperature: 22.9 °C Humidity: 54.6 % RH Atmospheric Pressure: 1020 mbar
 - Test mode a: Test the EUT in microwave mode with maximum power.

6.5.2 Test Setup Diagram



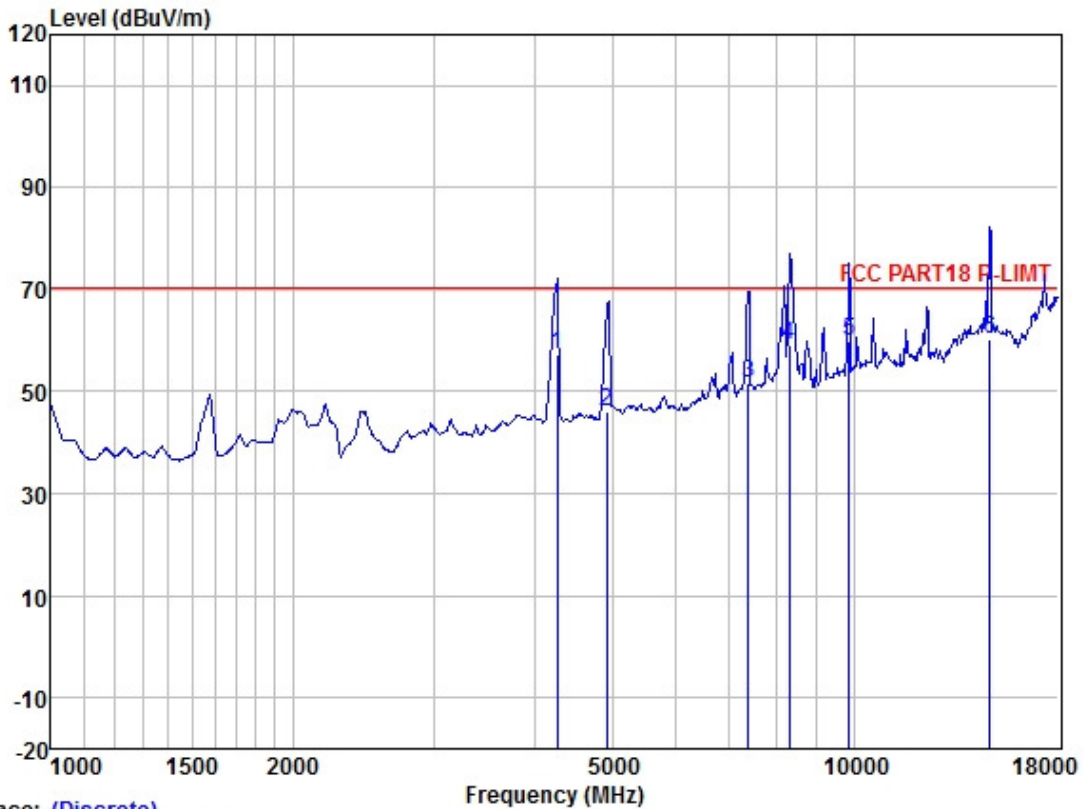
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Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
 No.198 Kezhu Road, Sciencetech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075058 www.sgs.com.cn
 中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 f (86-20) 82075058 sgs.china@sgs.com

6.5.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

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

Mode:a; Polarization:Horizontal



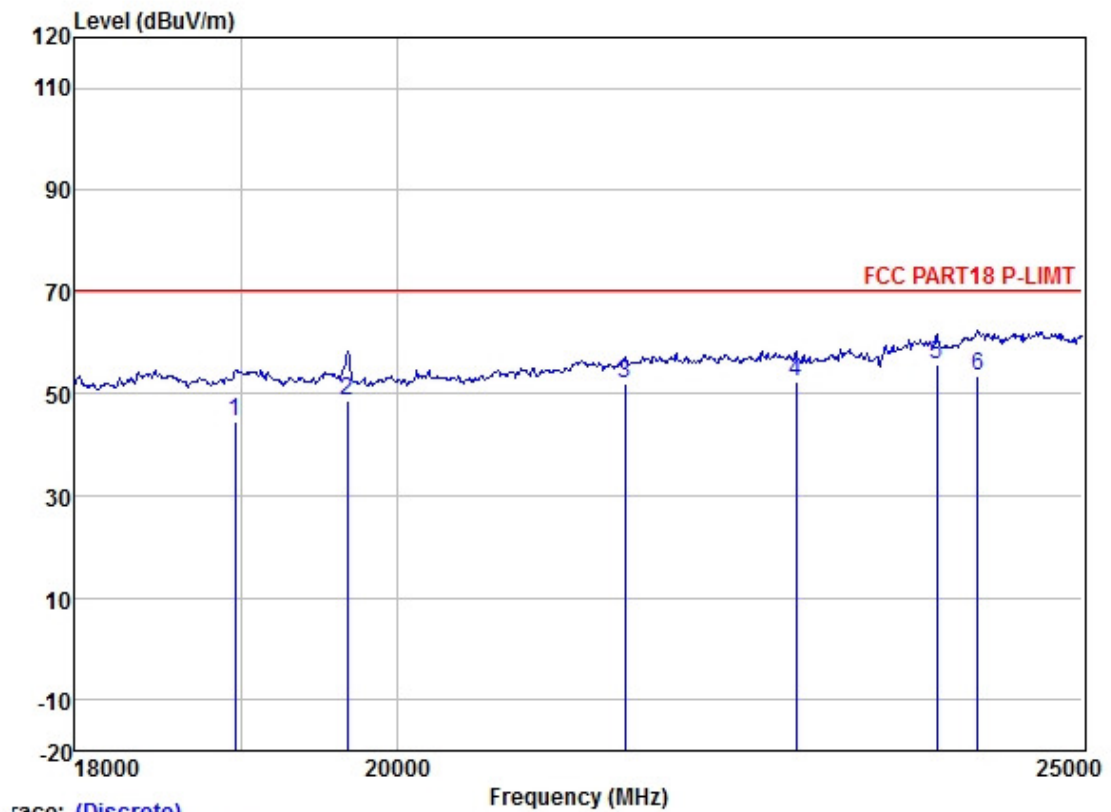
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|--------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 4267.237 | 57.96 | 29.85 | 6.46 | 36.91 | 57.36 | 70.38 | -13.02 | HORIZONTAL Average |
| 2 | 4921.030 | 44.65 | 30.99 | 7.29 | 36.95 | 45.98 | 70.38 | -24.40 | HORIZONTAL Average |
| 3 | 7387.418 | 45.42 | 35.85 | 7.42 | 36.92 | 51.77 | 70.38 | -18.61 | HORIZONTAL Average |
| 4 | 8319.836 | 51.55 | 36.22 | 8.15 | 36.92 | 59.00 | 70.38 | -11.38 | HORIZONTAL Average |
| 5 | 9866.789 | 50.75 | 37.86 | 8.52 | 37.09 | 60.04 | 70.38 | -10.34 | HORIZONTAL Average |
| 6 | 14788.150 | 41.45 | 40.96 | 13.45 | 35.58 | 60.28 | 70.38 | -10.10 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal



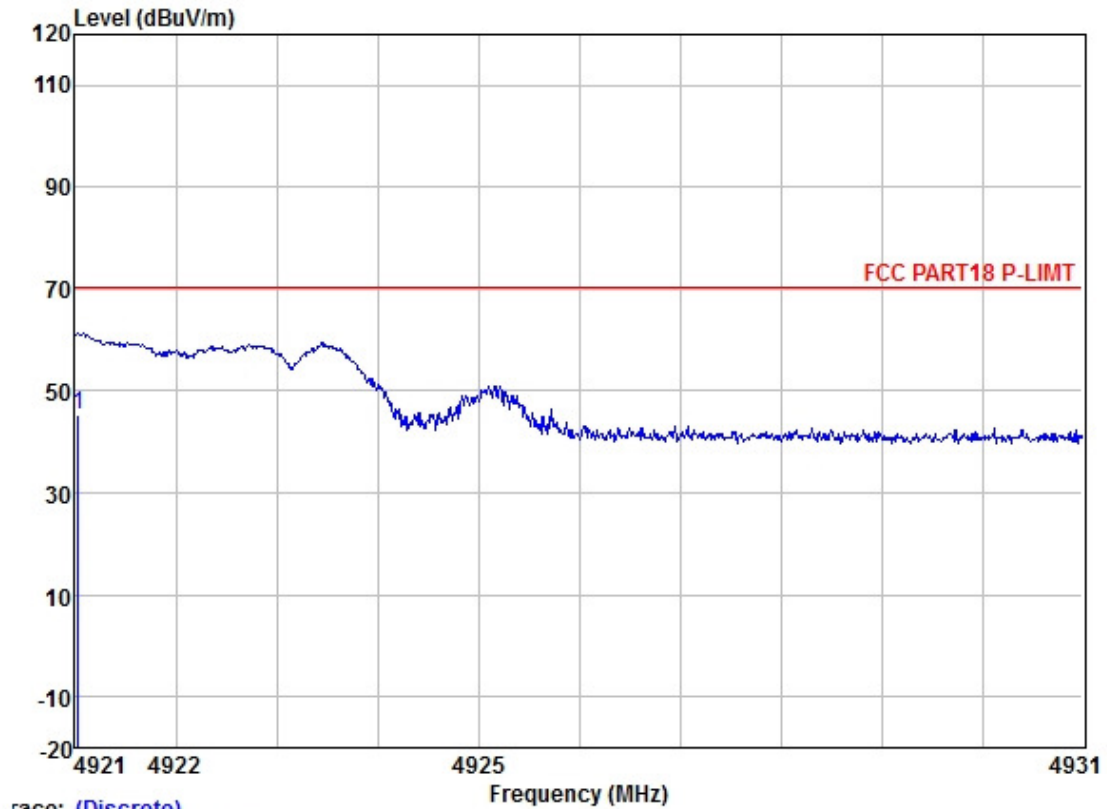
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | Remark |
|-------------|-------------|-------|--------|-------|--------|-----------|--------|--------------------|
| Freq | Level | Loss | Factor | Line | Limit | Pol/Phase | | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 18965.170 | 25.44 | 38.00 | 16.89 | 35.60 | 44.73 | 70.38 | -25.65 | HORIZONTAL Average |
| 2 19669.470 | 28.98 | 38.00 | 17.20 | 35.60 | 48.58 | 70.38 | -21.80 | HORIZONTAL Average |
| 3 21536.200 | 31.02 | 38.08 | 18.36 | 35.35 | 52.11 | 70.38 | -18.27 | HORIZONTAL Average |
| 4 22773.120 | 29.62 | 39.39 | 19.11 | 35.57 | 52.55 | 70.38 | -17.83 | HORIZONTAL Average |
| 5 23837.090 | 31.89 | 39.60 | 20.28 | 36.06 | 55.71 | 70.38 | -14.67 | HORIZONTAL Average |
| 6 24160.310 | 29.70 | 39.57 | 20.49 | 36.11 | 53.65 | 70.38 | -16.73 | HORIZONTAL Average |



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Mode:a; Polarization:Horizontal



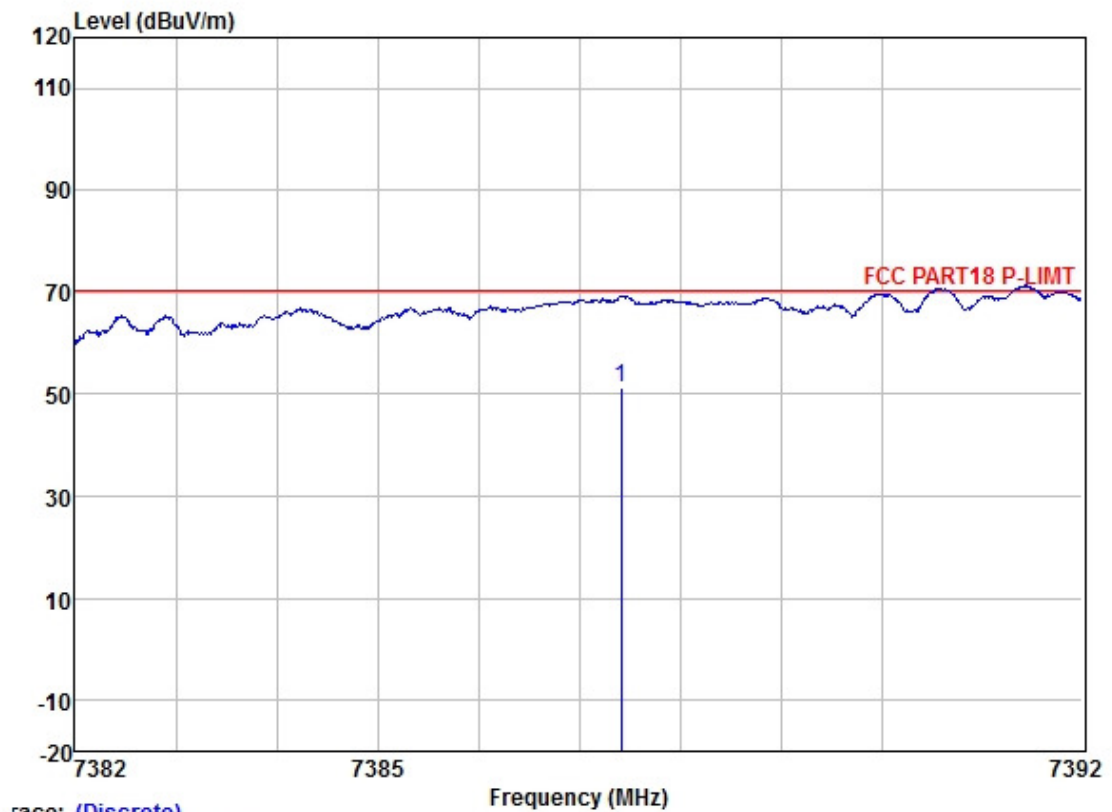
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------------|-------------|--------|--------|--------|--------|--------|--------|------------|---------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 4921.030 | 44.07 | 30.99 | 7.29 | 36.95 | 45.40 | 70.38 | -24.98 | HORIZONTAL | Average |



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Mode:a; Polarization:Horizontal



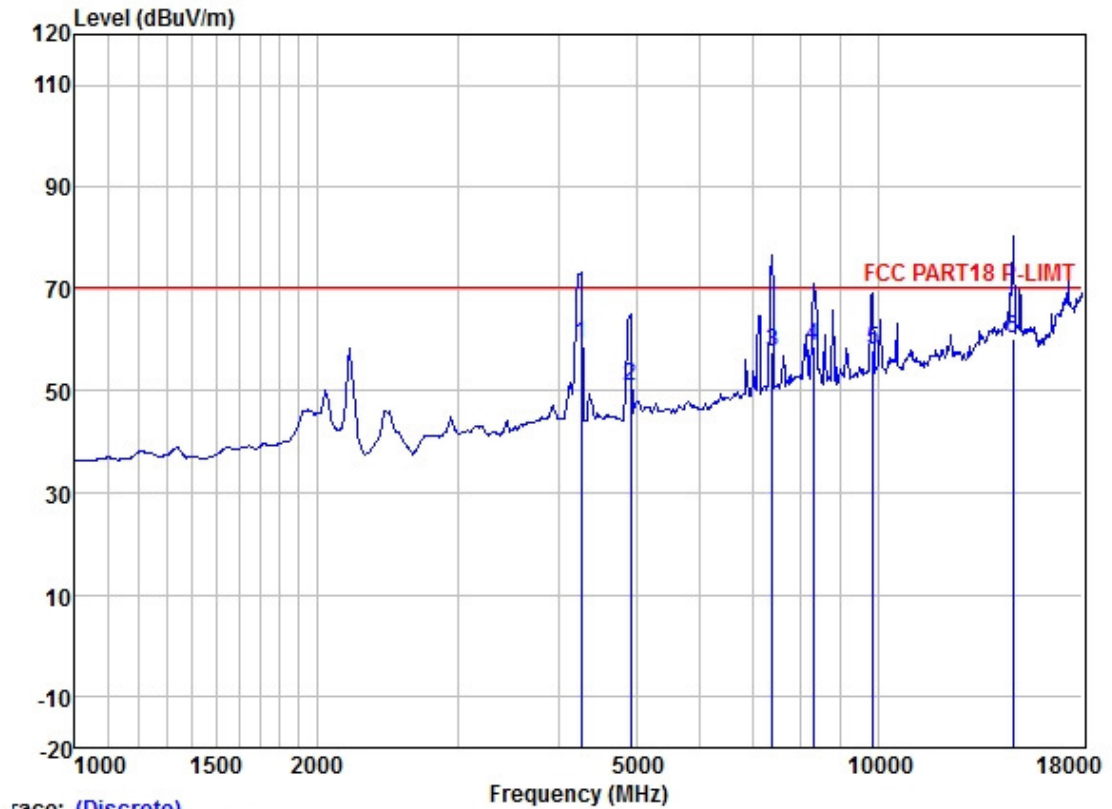
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | | Limit | Over | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|--------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 7387.418 | 45.02 | 35.85 | 7.42 | 36.92 | 51.37 | 70.38 | -19.01 | HORIZONTAL Average |



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Mode:a; Polarization:Vertical



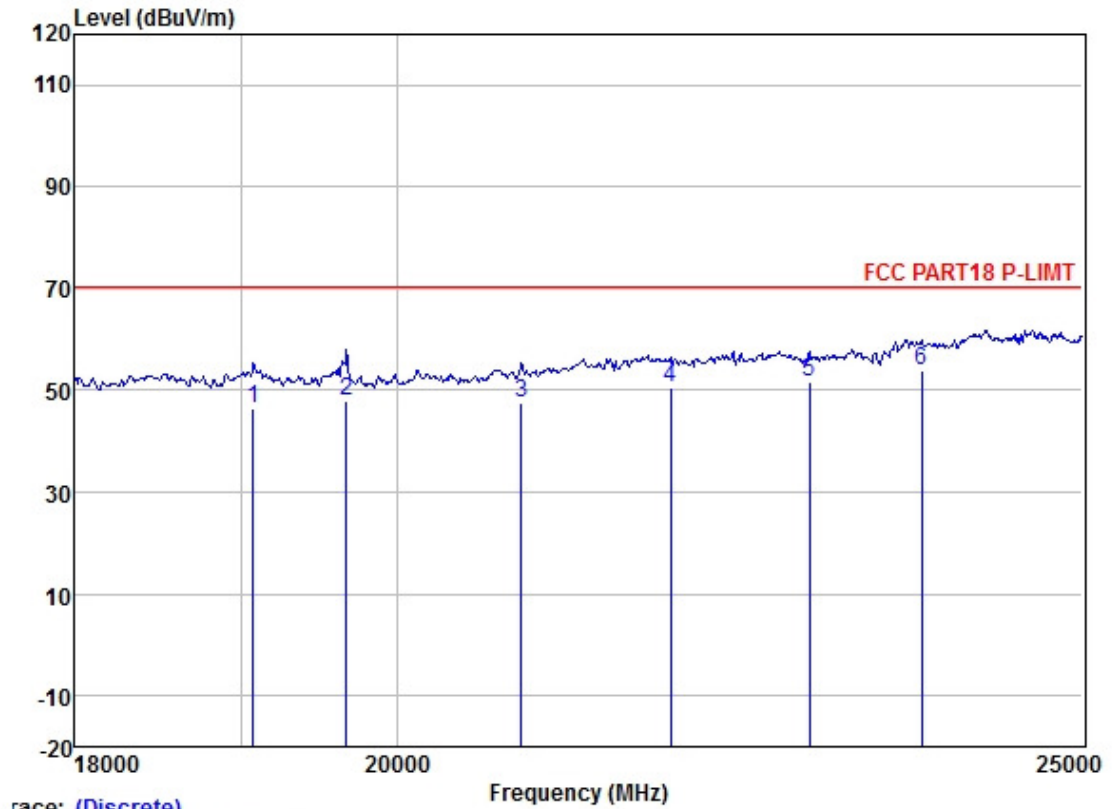
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 4267.237 | 59.80 | 29.85 | 6.46 | 36.91 | 59.20 | 70.38 | -11.18 | VERTICAL Average |
| 2 | 4919.099 | 49.79 | 30.99 | 7.29 | 36.95 | 51.12 | 70.38 | -19.26 | VERTICAL Average |
| 3 | 7381.889 | 51.29 | 35.85 | 7.42 | 36.92 | 57.64 | 70.38 | -12.74 | VERTICAL Average |
| 4 | 8319.836 | 51.47 | 36.22 | 8.15 | 36.92 | 58.92 | 70.38 | -11.46 | VERTICAL Average |
| 5 | 9866.789 | 48.91 | 37.86 | 8.52 | 37.09 | 58.20 | 70.38 | -12.18 | VERTICAL Average |
| 6 | 14745.470 | 41.49 | 41.15 | 13.26 | 35.55 | 60.35 | 70.38 | -10.03 | VERTICAL Average |



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Mode:a; Polarization:Vertical



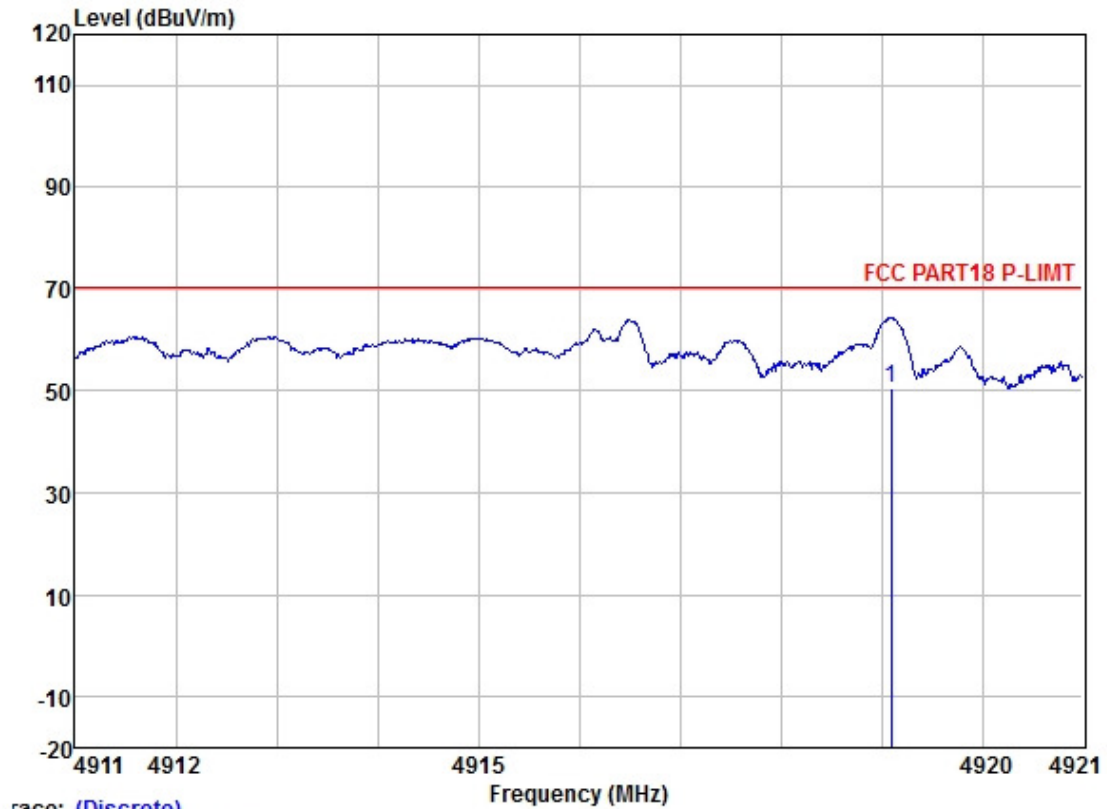
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 19077.640 | 27.13 | 38.00 | 16.92 | 35.60 | 46.45 | 70.38 | -23.93 | VERTICAL Average |
| 2 | 19663.010 | 28.28 | 38.00 | 17.20 | 35.60 | 47.88 | 70.38 | -22.50 | VERTICAL Average |
| 3 | 20819.690 | 27.05 | 37.91 | 17.92 | 35.48 | 47.40 | 70.38 | -22.98 | VERTICAL Average |
| 4 | 21856.920 | 29.00 | 38.18 | 18.55 | 35.31 | 50.42 | 70.38 | -19.96 | VERTICAL Average |
| 5 | 22870.580 | 28.60 | 39.48 | 19.15 | 35.65 | 51.58 | 70.38 | -18.80 | VERTICAL Average |
| 6 | 23719.920 | 30.20 | 39.60 | 20.17 | 36.03 | 53.94 | 70.38 | -16.44 | VERTICAL Average |



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Mode:a; Polarization:Vertical



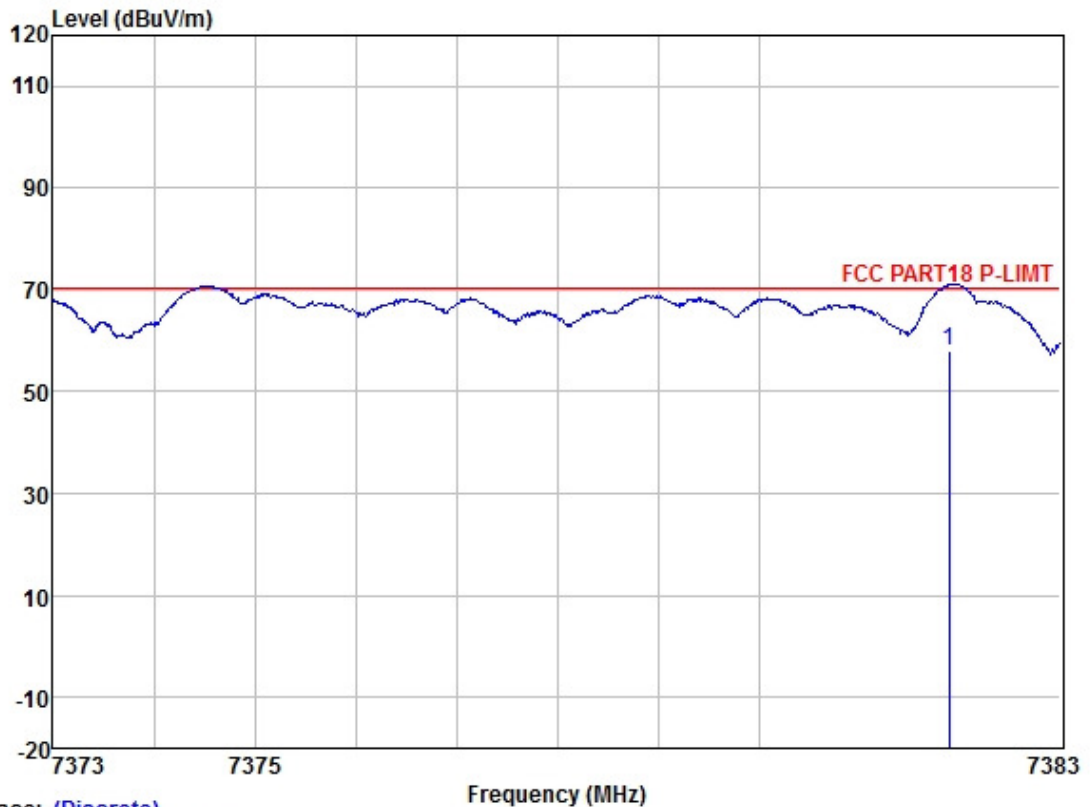
Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | Remark | |
|------|-------------|--------|--------|--------|--------|--------|-------|-----------|------------------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 4919.099 | 49.10 | 30.99 | 7.29 | 36.95 | 50.43 | 70.38 | -19.95 | VERTICAL Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

| | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|------------|-------------|--------|--------|--------|--------|--------|--------|-----------|---------|
| Freq | Level | Factor | Loss | Factor | Level | Line | Limit | Pol/Phase | Remark |
| MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 7381.889 | 51.73 | 35.85 | 7.42 | 36.92 | 58.08 | 70.38 | -12.30 | VERTICAL | Average |



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6.6 Radiated Emissions (Magnetic field Strength) (9kHz-30MHz)

Test Requirement: 47 CFR Part 18
Test Method: FCC OST/MP-5:1986
Frequency Range: 9kHz to 30MHz
Measurement Distance: 10m
Detector: Peak for pre-scan, Average for the final result
(200 Hz Resolution Bandwidth for 9 kHz to 150 kHz
9 kHz Resolution Bandwidth for 150 kHz to 30 MHz)
Limit: (a) ISM equipment operation on a frequency specified in §18.301 is permitted unlimited radiated energy in the band specified for that frequency.
(b) The field strength levels of emissions which lie outside the bands specified in §18.301, unless otherwise indicated, shall not exceed the following:

| RF Power generated by equipment(watts) | Field strength Limit(uV/m) @300m |
|--|----------------------------------|
| Below 500 | 25 |
| 500 or more | 25*SQRT(power/500) |

Power =872.6 W according to clause6.3.2

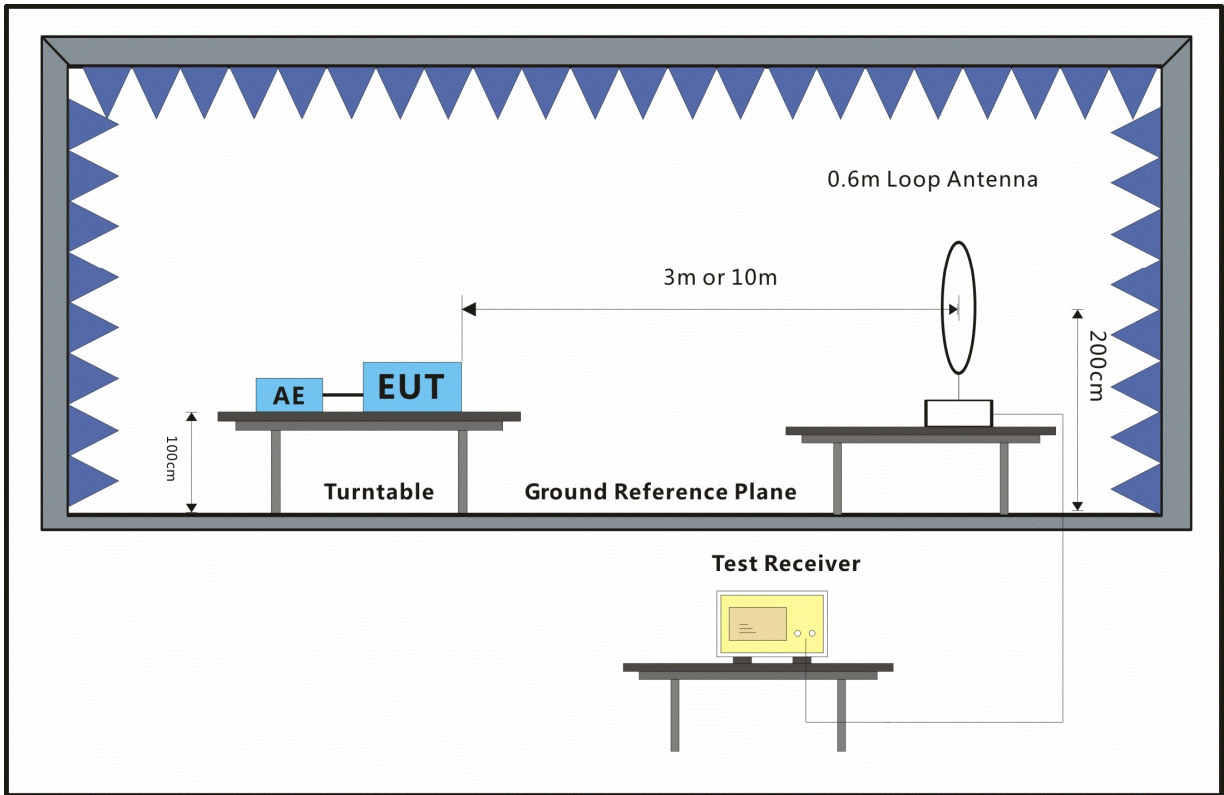
Limit=20lg(25*SQRT(power/500))+20lg(300/10)=30.38+29.54=59.92dBuV/m @ 10m distance.

6.6.1 E.U.T. Operation

Operating Environment:
Temperature: 22.9 °C Humidity: 56.2 % RH Atmospheric Pressure: 1021 mbar
Test mode a: Test the EUT in microwave mode with maximum power.



6.6.2 Test Setup Diagram



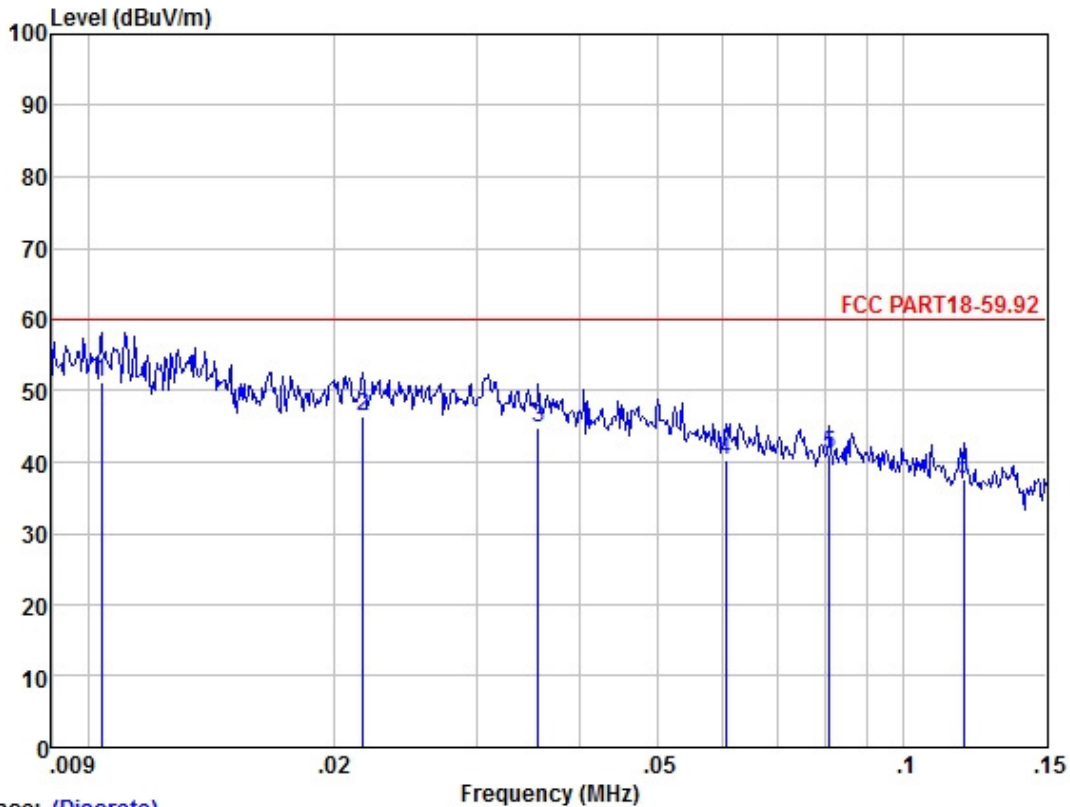
6.6.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.

$$\text{Level} = \text{Read Level} + \text{Antenna Factor} + \text{Cable Loss} - \text{Preamp Factor}$$



Mode:a; Polarization:Horizontal



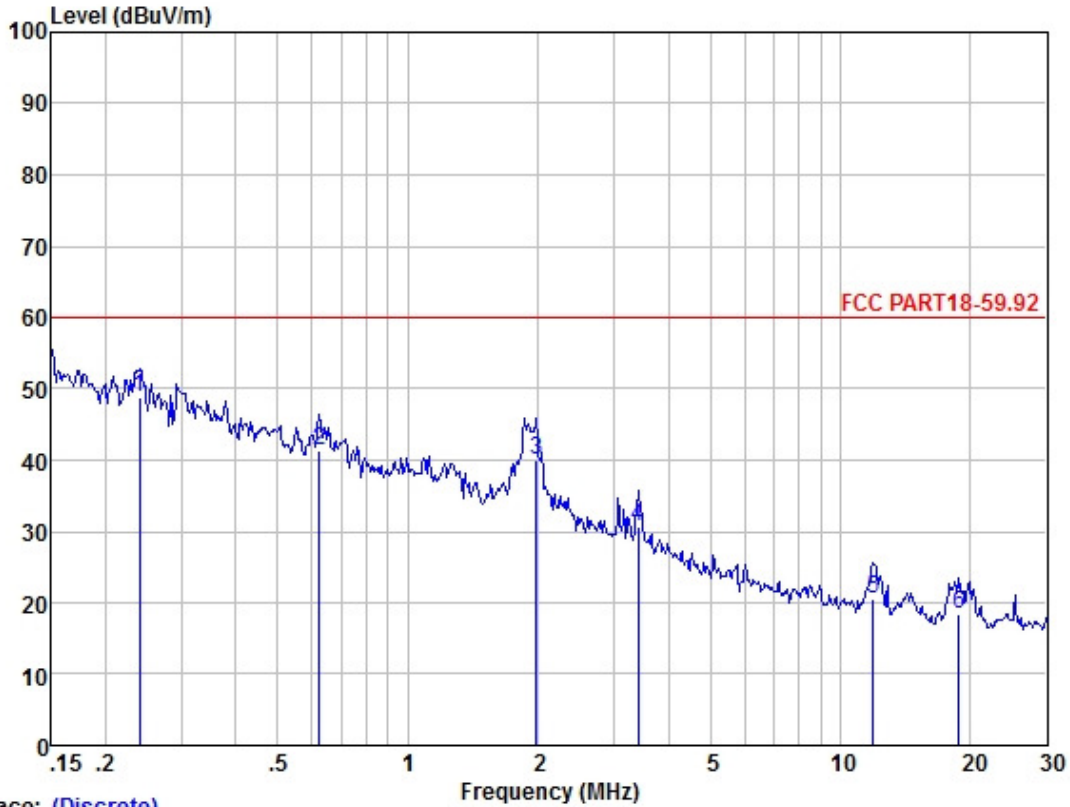
Trace: (Discrete)

| | Freq | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit | Over | Pol/Phase | Remark |
|---|-------|-------------------|----------------|------------|---------------|--------|--------|--------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 0.010 | 59.15 | 21.47 | 0.00 | 29.50 | 51.12 | 59.92 | -8.80 | HORIZONTAL | Average |
| 2 | 0.022 | 59.92 | 16.02 | 0.00 | 29.48 | 46.46 | 59.92 | -13.46 | HORIZONTAL | Average |
| 3 | 0.036 | 60.83 | 13.42 | 0.00 | 29.44 | 44.81 | 59.92 | -15.11 | HORIZONTAL | Average |
| 4 | 0.060 | 57.29 | 12.45 | 0.00 | 29.43 | 40.31 | 59.92 | -19.61 | HORIZONTAL | Average |
| 5 | 0.081 | 58.04 | 12.40 | 0.00 | 29.42 | 41.02 | 59.92 | -18.90 | HORIZONTAL | Average |
| 6 | 0.118 | 54.76 | 12.40 | 0.00 | 29.43 | 37.73 | 59.92 | -22.19 | HORIZONTAL | Average |



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Mode:a; Polarization:Horizontal



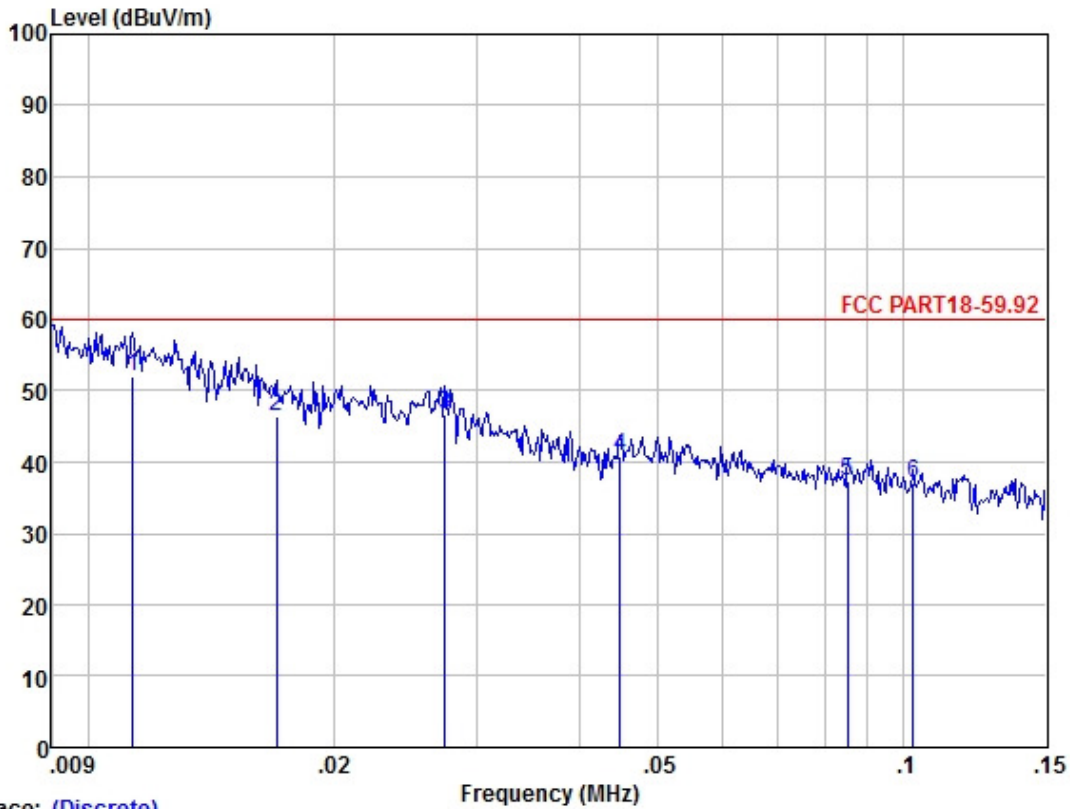
Trace: (Discrete)

| | Freq | ReadAntenna Level | Antenna Factor | Cable Loss | Preamp Factor | Level | Limit Line | Over Limit | Pol/Phase | Remark |
|---|--------|-------------------|----------------|------------|---------------|--------|------------|------------|------------|---------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | |
| 1 | 0.239 | 65.79 | 12.31 | 0.08 | 29.48 | 48.70 | 59.92 | -11.22 | HORIZONTAL | Average |
| 2 | 0.624 | 58.44 | 12.16 | 0.10 | 29.34 | 41.36 | 59.92 | -18.56 | HORIZONTAL | Average |
| 3 | 1.980 | 56.48 | 12.60 | 0.10 | 29.29 | 39.89 | 59.92 | -20.03 | HORIZONTAL | Average |
| 4 | 3.399 | 47.84 | 11.88 | 0.20 | 29.25 | 30.67 | 59.92 | -29.25 | HORIZONTAL | Average |
| 5 | 11.933 | 38.53 | 10.63 | 0.40 | 29.05 | 20.51 | 59.92 | -39.41 | HORIZONTAL | Average |
| 6 | 18.820 | 36.64 | 10.33 | 0.48 | 28.95 | 18.50 | 59.92 | -41.42 | HORIZONTAL | Average |



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Mode:a; Polarization:Vertical



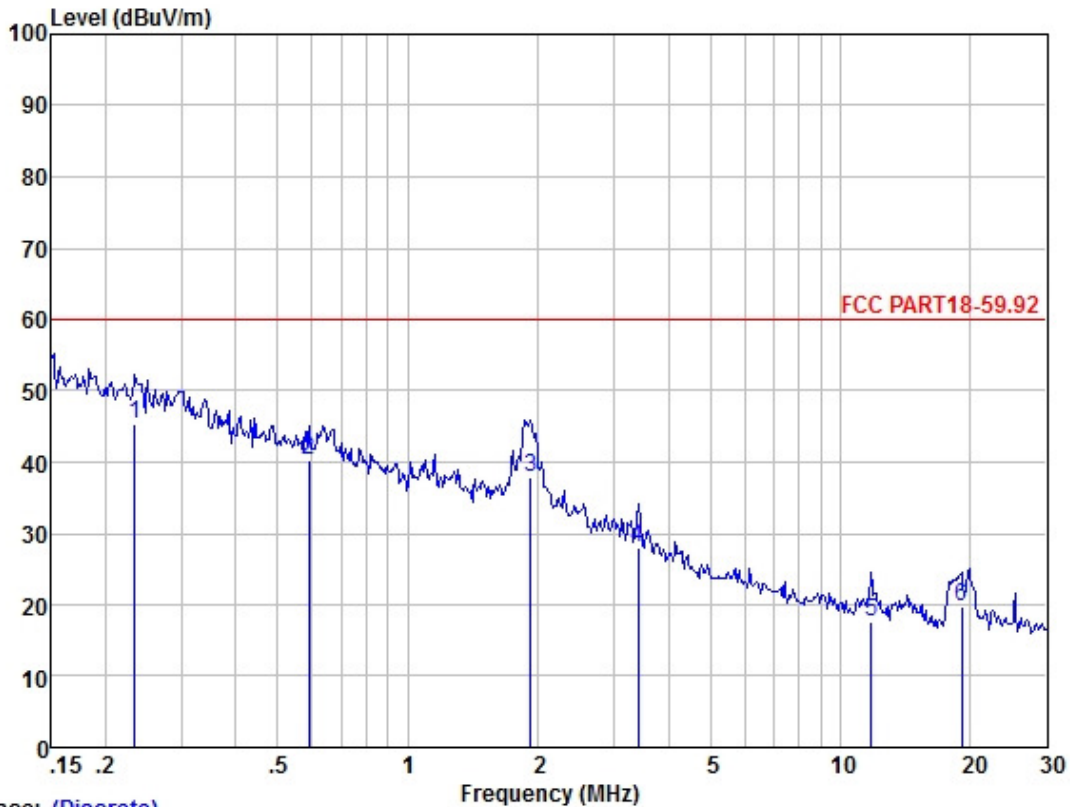
Trace: (Discrete)

| | Freq | ReadAntenna Level | Cable Factor | Preamp Loss | Limit Factor | Over Level | Limit Line | Pol/Phase | Remark |
|---|-------|-------------------|--------------|-------------|--------------|------------|------------|-----------|------------------|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | |
| 1 | 0.011 | 60.53 | 21.06 | 0.00 | 29.50 | 52.09 | 59.92 | -7.83 | VERTICAL Average |
| 2 | 0.017 | 58.99 | 17.00 | 0.00 | 29.49 | 46.50 | 59.92 | -13.42 | VERTICAL Average |
| 3 | 0.027 | 60.83 | 15.32 | 0.00 | 29.47 | 46.68 | 59.92 | -13.24 | VERTICAL Average |
| 4 | 0.045 | 57.52 | 12.71 | 0.00 | 29.43 | 40.80 | 59.92 | -19.12 | VERTICAL Average |
| 5 | 0.085 | 54.31 | 12.40 | 0.00 | 29.42 | 37.29 | 59.92 | -22.63 | VERTICAL Average |
| 6 | 0.103 | 54.00 | 12.40 | 0.00 | 29.42 | 36.98 | 59.92 | -22.94 | VERTICAL Average |



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Mode:a; Polarization:Vertical



Trace: (Discrete)

| | Freq | ReadAntenna | Cable | Preamp | Limit | Over | | | | |
|---|--------|-------------|-------|--------|-------|--------|-----------|--------|----------|---------|
| | MHz | Level | Loss | Factor | Line | Limit | Pol/Phase | Remark | | |
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dB | | | |
| 1 | 0.234 | 62.50 | 12.31 | 0.07 | 29.49 | 45.39 | 59.92 | -14.53 | VERTICAL | Average |
| 2 | 0.592 | 57.25 | 12.14 | 0.10 | 29.34 | 40.15 | 59.92 | -19.77 | VERTICAL | Average |
| 3 | 1.918 | 54.58 | 12.59 | 0.10 | 29.29 | 37.98 | 59.92 | -21.94 | VERTICAL | Average |
| 4 | 3.399 | 45.22 | 11.88 | 0.20 | 29.25 | 28.05 | 59.92 | -31.87 | VERTICAL | Average |
| 5 | 11.807 | 35.56 | 10.63 | 0.38 | 29.06 | 17.51 | 59.92 | -42.41 | VERTICAL | Average |
| 6 | 19.021 | 37.78 | 10.32 | 0.50 | 28.95 | 19.65 | 59.92 | -40.27 | VERTICAL | Average |

--End of Report--



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