



FCC EMI TEST REPORT

FCC ID : AK8-PM1300BV
Equipment : Communication Device
Brand Name : Sony
Applicant : Sony Corporation
1-7-1 Konan, Minato-ku, Tokyo, 108-0075, Japan
Manufacturer : Sony Network Communications Inc.
4-12-3 Higashi-Shinagawa, Shinagawa-ku,
Tokyo, 140-0002, Japan
Standard : FCC 47 CFR FCC Part 15 Subpart B

The product was received on Jan. 17, 2020 and testing was started from Mar. 30, 2020 and completed on Jul. 08, 2020. We, SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI C63.4-2014 and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Louis Wu

SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.)



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Summary of Test Result

| Report Clause | Ref Std. Clause | Test Items | Result (PASS/FAIL) | Remark |
|---------------|-----------------|-----------------------|--------------------|--|
| 3.1 | 15.107 | AC Conducted Emission | Pass | Under limit 5.38 dB at 20.679 MHz |
| 3.2 | 15.109 | Radiated Emission | Pass | Under limit 4.87 dB at 719.670 MHz |

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.

Reviewed by: Dara Chiu

Report Producer: Ann Lee



1. General Description

1.1. Product Feature of Equipment Under Test

LTE, Bluetooth, and GNSS.

| Product Specification subjective to this standard | |
|---|--|
| Antenna Type | WWAN: Monopole Antenna Bluetooth: PIFA Antenna GPS / Glonass: PIFA Antenna |

| EUT Information List | | | |
|----------------------|------------|-------------|---------------------|
| HW Version | SW Version | S/N | Performed Test Item |
| A | 02.00 | 824880610B1 | Radiated Emission |
| | | 824832615 | Conducted Emission |

| Accessory List | |
|----------------|---------------------------|
| AC Adapter | Model Name : UCH20 |
| | S/N : 2118W10507474 |
| USB Cable | Model Name : UCB20 |
| | S/N : A394635019S |
| Battery | Model Name : AHB381936HPC |
| | S/N : N/A |

Note:

1. Above EUT list used are electrically identical per declared by manufacturer.
2. Above the accessories list are used to exercise the EUT during test, and the serial number of each type of accessories is listed in each section of this report.
3. For other wireless features of this EUT, test report will be issued separately.

1.2. Modification of EUT

No modifications are made to the EUT during all test items.



1.3. Test Location

| | |
|---------------------------|---|
| Test Site | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory |
| Test Site Location | No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-3456 FAX: +886-3-328-4978 |
| Test Site No. | Sporton Site No. |
| | CO05-HY |
| Test Site | SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory |
| Test Site Location | No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855 |
| Test Site No. | Sporton Site No. |
| | 03CH10-HY |

FCC Designation No.: TW1093 and TW1098

1.4. Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ FCC 47 CFR FCC Part 15 Subpart B
- ♦ ANSI C63.4-2014

Remark: All test items were verified and recorded according to the standards and without any deviation during the test.



2. Test Configuration of Equipment Under Test

2.1. Test Mode

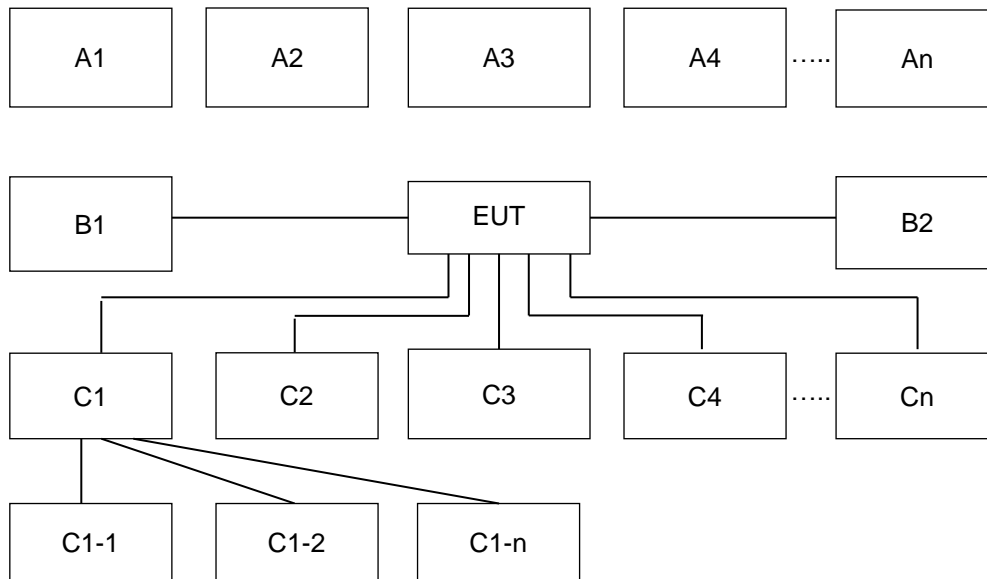
The EUT has been associated with peripherals pursuant to ANSI C63.4-2014 and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: conduction emission (150 kHz to 30 MHz), radiation emission (30MHz to the 5th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (X plane) were recorded in this report.

| Test Items | Function Type |
|------------------------------|--|
| AC Conducted Emission | Mode 1 : LTE Cat M1 Band 26 (Middle Channel) Idle + Bluetooth Idle + Ring + GPS Rx + Adapter |
| | Mode 2 : EUT with USB Cable (Data Link with Notebook) |
| Radiated Emissions | Mode 1 : LTE Cat M1 Band 26 (Middle Channel) Idle + Bluetooth Idle + Ring + GPS Rx + Adapter |
| | Mode 2 : EUT with USB Cable (Data Link with Notebook) |

Remark:

1. Data Link with Notebook means data application transferred mode between EUT and Notebook.
2. For radiation emission mode 1 after pre-scanned the cellular band (LTE Cat M1 Band 26 L/M/H CH); only the worst case for cellular band test data of this mode was reported.

2.2. Connection Diagram of Test System



| Test Setup | | | | | | | | | |
|------------|-------------------|-------------------|-----------|---|---|---|---|---|---|
| No. | Wireless Station | Connection Type | Test Mode | | | | | | |
| | | | 1 | 2 | - | - | - | - | - |
| A1 | Phone | Bluetooth | X | - | - | - | - | - | - |
| A2 | System Simulator | LTE | X | - | - | - | - | - | - |
| A3 | GPS Station | GPS | X | - | - | - | - | - | - |
| No. | Power Source | Connection Type | 1 | 2 | - | - | - | - | - |
| B1 | AC : 120V/60Hz | AC Power Cable | X | - | - | - | - | - | - |
| B2 | Power from System | AC Power Cable | - | X | - | - | - | - | - |
| No. | Setup Peripherals | Connection Type | 1 | 2 | - | - | - | - | - |
| C1 | Earphone | Earphone jack | X | - | - | - | - | - | - |
| C2 | Notebook | USB Cable | - | X | - | - | - | - | - |
| C2-1 | Music Player | USB cable to C2 | - | X | - | - | - | - | - |
| C2-2 | AP Router | RJ-45 Cable to C2 | - | X | - | - | - | - | - |



2.3. Support Unit used in test configuration and system

| Item | Equipment | Brand Name | Model Name | FCC ID | Data Cable | Power Cord |
|------|------------------|------------|----------------|-------------|-----------------|--|
| 1. | System Simulator | Anritsu | 8821C | N/A | N/A | Unshielded, 1.8 m |
| 2. | GPS Station | Pendulum | GSG-54 | N/A | N/A | Unshielded, 1.8 m |
| 3. | WLAN AP | ASUS | RT-AC66U | MSQ-RTAC66U | N/A | Unshielded, 1.8 m |
| 4. | Music Player | Apple | A1285 | FCC DoC | Shielded, 1.0 m | N/A |
| 5. | Notebook | ASUS | P2430U | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 6. | Notebook | DELL | Latitude E5480 | FCC DoC | N/A | AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m |
| 7. | Phone | Samsung | SM-A730F/DS | N/A | N/A | N/A |
| 8. | Phone | ASUS | Asus-Zenfone5 | N/A | N/A | N/A |
| 9. | USB Cable | SONY | UCB20 | N/A | N/A | N/A |
| 10. | Earphone | SONY | STH40D | N/A | N/A | N/A |
| 11. | Adapter | SONY | AC-0060 | N/A | N/A | N/A |

2.4. EUT Operation Test Setup

The EUT was in LTE Idle mode during the testing. The EUT was synchronized with the BCCH, and had been continuous receiving mode by setting paging reorganization of the system simulator.

At the same time, the EUT was attached to the Bluetooth earphone, and the following programs installed in the EUT were programmed during the test:

1. Data application is transferred between Laptop and EUT via USB cable.
2. Execute "GPS Test" to make the EUT receive continuous signals from GPS station.
3. Turn on Ring function.



3. Test Result

3.1. Test of AC Conducted Emission Measurement

3.1.1 Limits of AC Conducted Emission

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies within the band 150 kHz to 30 MHz shall not exceed the limits in the following table.

| Frequency of emission (MHz) | Conducted limit (dBuV) | |
|-----------------------------|------------------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

*Decreases with the logarithm of the frequency.

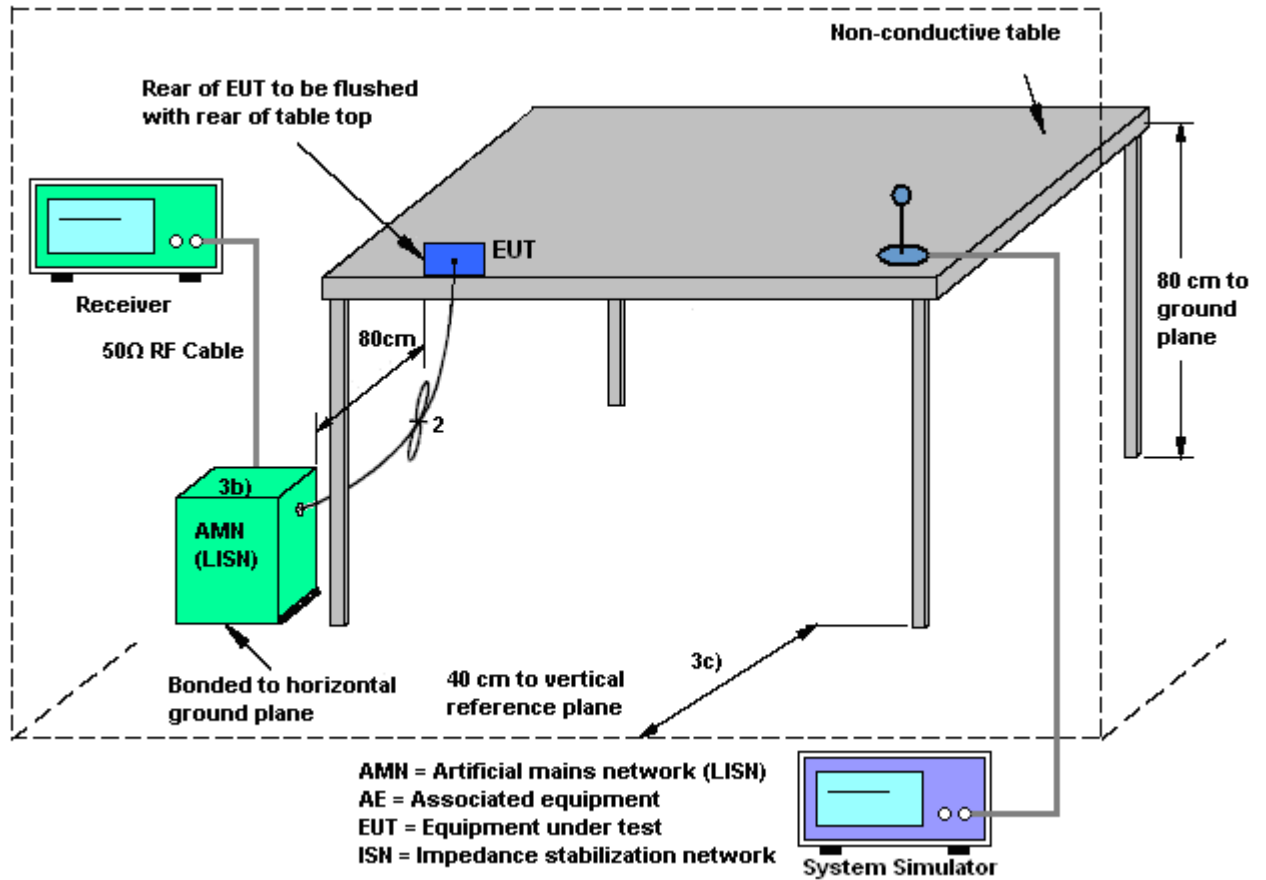
3.1.2 Measuring Instruments

Refer a test equipment and calibration data table in this test report.

3.1.3 Test Procedure

1. The EUT was placed 0.4 meter from the conducting wall of the shielding room was kept at least 80 centimeters from any other grounded conducting surface.
2. Connect EUT to the power mains through a line impedance stabilization network (LISN).
3. All the support units are connecting to the other LISN.
4. The LISN provides 50 ohm coupling impedance for the measuring instrument.
5. The FCC states that a 50 ohm, 50 microhenry LISN should be used.
6. Both sides of AC line were checked for maximum conducted interference.
7. The frequency range from 150 kHz to 30 MHz was searched.
8. Set the test-receiver system to Peak Detect Function and specified bandwidth (IF Bandwidth = 9kHz) with Maximum Hold Mode. Then measurement is also conducted by Average Detector and Quasi-Peak Detector Function respectively.

3.1.4 Test Setup



3.1.5 Test Result of AC Conducted Emission

Please refer to Appendix A.



3.2. Test of Radiated Emission Measurement

3.2.1. Limit of Radiated Emission

The emissions from an unintentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (microvolts/meter) | Measurement Distance (meters) |
|-----------------|-----------------------------------|-------------------------------|
| 30 – 88 | 100 | 3 |
| 88 – 216 | 150 | 3 |
| 216 - 960 | 200 | 3 |
| Above 960 | 500 | 3 |

3.2.2. Measuring Instruments

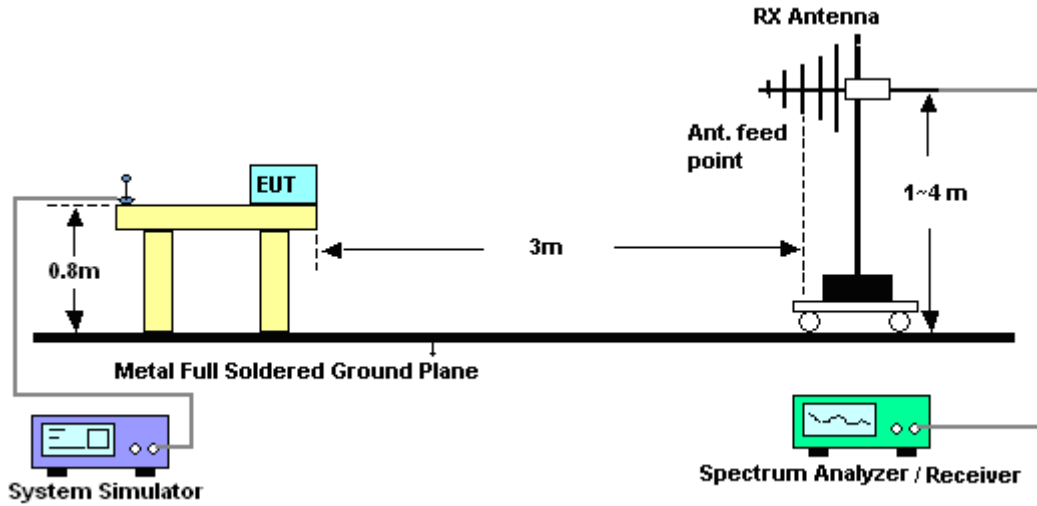
Refer a test equipment and calibration data table in this test report.

3.2.3. Test Procedures

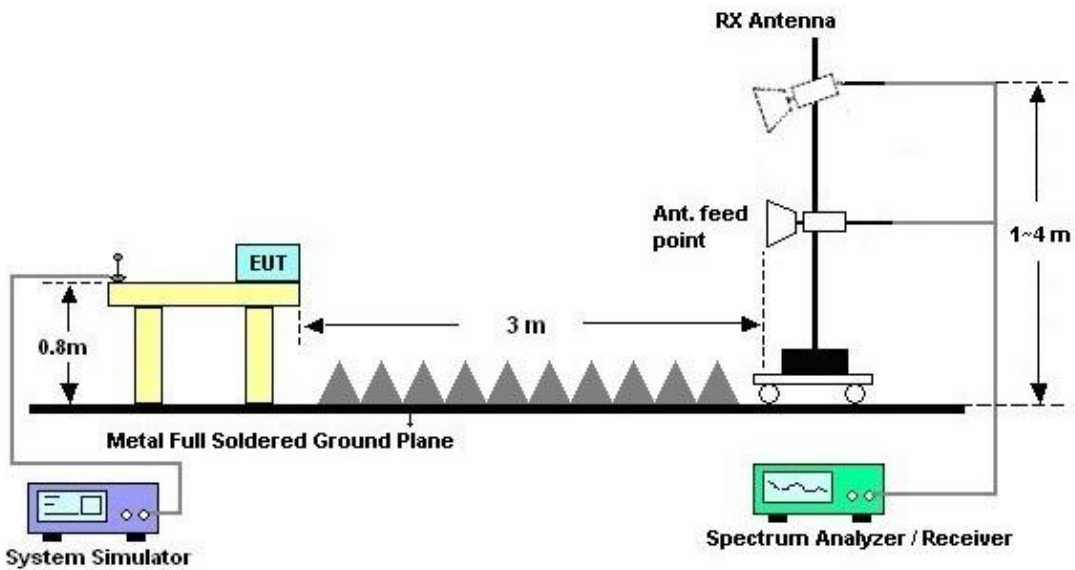
1. The EUT was placed on a turntable with 0.8 meter above ground.
2. The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest radiation.
4. The antenna height is adjusted between one to four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
5. For each suspected emission, the EUT was arranged to its worst case and then tune the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
6. Set the test-receiver system to Peak Detect Function and specified bandwidth with Maximum Hold Mode (RBW=120kHz/VBW=300kHz for frequency below 1GHz; RBW=1MHz VBW=3MHz (Peak), RBW=1MHz/VBW=10Hz (Average) for frequency above 1GHz).
7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported.
8. Emission level (dB μ V/m) = 20 log Emission level (μ V/m)
9. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

3.2.4. Test Setup of Radiated Emission

For radiated emissions from 30MHz to 1GHz



For radiated emissions above 1GHz



3.2.5. Test Result of Radiated Emission

Please refer to Appendix B.



4. List of Measuring Equipment

| Instrument | Brand Name | Model No. | Serial No. | Characteristics | Calibration Date | Test Date | Due Date | Remark |
|-------------------|-------------------|-----------------------------------|--|----------------------------------|------------------|---------------------------------|---------------|--------------------------|
| AC Power Source | ChainTek | APC-1000W | N/A | N/A | N/A | Mar. 30, 2020~ Apr. 20, 2020 | N/A | Conduction (CO05-HY) |
| EMI Test Receiver | Rohde & Schwarz | ESR3 | 102388 | 9kHz~3.6GHz | Nov. 15, 2019 | Mar. 30, 2020~ Apr. 20, 2020 | Nov. 14, 2020 | Conduction (CO05-HY) |
| Hygrometer | Testo | 608-H1 | 34913912 | N/A | Nov. 07, 2019 | Mar. 30, 2020~ Apr. 20, 2020 | Nov. 06, 2020 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100080 | 9kHz~30MHz | Nov. 20, 2019 | Mar. 30, 2020~ Apr. 20, 2020 | Nov. 19, 2020 | Conduction (CO05-HY) |
| LISN | Rohde & Schwarz | ENV216 | 100081 | 9kHz~30MHz | Nov. 15, 2019 | Mar. 30, 2020~ Apr. 20, 2020 | Nov. 14, 2020 | Conduction (CO05-HY) |
| Software | Rohde & Schwarz | EMC32 V10.30 | N/A | N/A | N/A | Mar. 30, 2020~ Apr. 20, 2020 | N/A | Conduction (CO05-HY) |
| LF Cable | HUBER + SUHNER | RG-214/U | LF01 | N/A | Jan. 02, 2020 | Mar. 30, 2020~ Apr. 20, 2020 | Jan. 01, 2021 | Conduction (CO05-HY) |
| Pulse Limiter | Rohde & Schwarz | ESH3-Z2 | 100851 | N/A | Jan. 02, 2020 | Mar. 30, 2020~ Apr. 20, 2020 | Jan. 01, 2021 | Conduction (CO05-HY) |
| Amplifier | SONOMA | 310N | 187311 | 9kHz~1GHz | Oct. 22, 2019 | Apr. 20, 2020~ Jul. 08, 2020 | Oct. 21, 2020 | Radiation (03CH10-HY) |
| Bilog Antenna | TESEQ | CBL 6111D & 00800N1D01N -06 | 35413 & 02 | 30MHz~1GHz | Feb. 11, 2020 | Apr. 20, 2020~ Jul. 08, 2020 | Feb. 10, 2021 | Radiation (03CH10-HY) |
| Horn Antenna | SCHWARZBE CK | BBHA 9120 D | 9120D-132 5 | 1GHz~18GHz | Oct. 09, 2019 | Apr. 20, 2020~ Jul. 08, 2020 | Oct. 08, 2020 | Radiation (03CH10-HY) |
| Preamplifier | Jet-Power | JAP00101800- 30-10P | 160118550 004 | 1GHz~18GHz | Sep. 27, 2019 | Apr. 20, 2020~ Jul. 08, 2020 | Sep. 26, 2020 | Radiation (03CH10-HY) |
| Spectrum Analyzer | Keysight | N9010A | MY542004 85 | 10Hz~44GHz | Feb. 10, 2020 | Apr. 20, 2020~ Jul. 08, 2020 | Feb. 09, 2021 | Radiation (03CH10-HY) |
| Controller | EMEC | EM 1000 | N/A | Control Turn table & Ant Mast | N/A | Apr. 20, 2020~ Jul. 08, 2020 | N/A | Radiation (03CH10-HY) |
| Antenna Mast | EMEC | AM-BS-4500- B | N/A | 1~4m | N/A | Apr. 20, 2020~ Jul. 08, 2020 | N/A | Radiation (03CH10-HY) |
| Turn Table | EMEC | TT 2200 | N/A | 0~360 Degree | N/A | Apr. 20, 2020~ Jul. 08, 2020 | N/A | Radiation (03CH10-HY) |
| Software | Audix | E3 6.2009-8-24 | RK-00104 2 | N/A | N/A | Apr. 20, 2020~ Jul. 08, 2020 | N/A | Radiation (03CH10-HY) |
| EMI Test Receiver | Agilent | N9038A(MXE) | MY532900 45 | 20MHz~8.4GHz | Jan. 18, 2020 | Apr. 20, 2020~ Jul. 08, 2020 | Jan. 17, 2021 | Radiation (03CH10-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 / 102 | MY11692/ 4PE, MY11693/ 4PE, MY2855/2 | 30MHz~1GHz | Nov. 07, 2019 | Apr. 20, 2020~ Jul. 08, 2020 | Nov. 06, 2020 | Radiation (03CH10-HY) |
| RF Cable | HUBER + SUHNER | SUCOFLEX 104 / 102 | MY11692/ 4PE, MY11693/ 4PE, MY2855/2 | 1GHz~18GHz | Nov. 07, 2019 | Apr. 20, 2020~ Jul. 08, 2020 | Nov. 06, 2020 | Radiation (03CH10-HY) |



5. Uncertainty of Evaluation

Uncertainty of Conducted Emission Measurement (150 kHz ~ 30 MHz)

| | |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$) | 2.3 |
|---|-----|

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

| | |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$) | 5.3 |
|---|-----|

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 6000 MHz)

| | |
|---|-----|
| Measuring Uncertainty for a Level of Confidence of 95% ($U=2Uc(y)$) | 4.6 |
|---|-----|



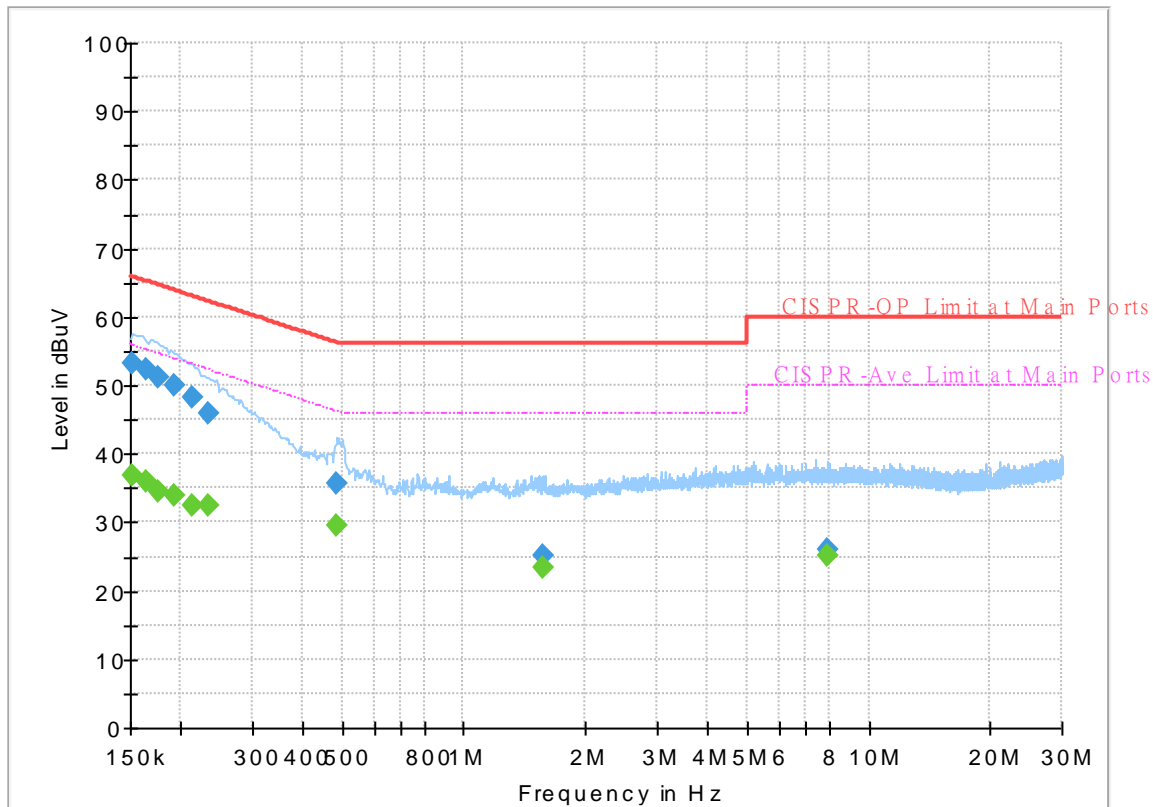
Appendix A. AC Conducted Emission Test Results

| | | | |
|-----------------|---------|---------------------|---------|
| Test Engineer : | Tom Lee | Temperature : | 21~25°C |
| | | Relative Humidity : | 42~50% |

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Line

Full Spectrum



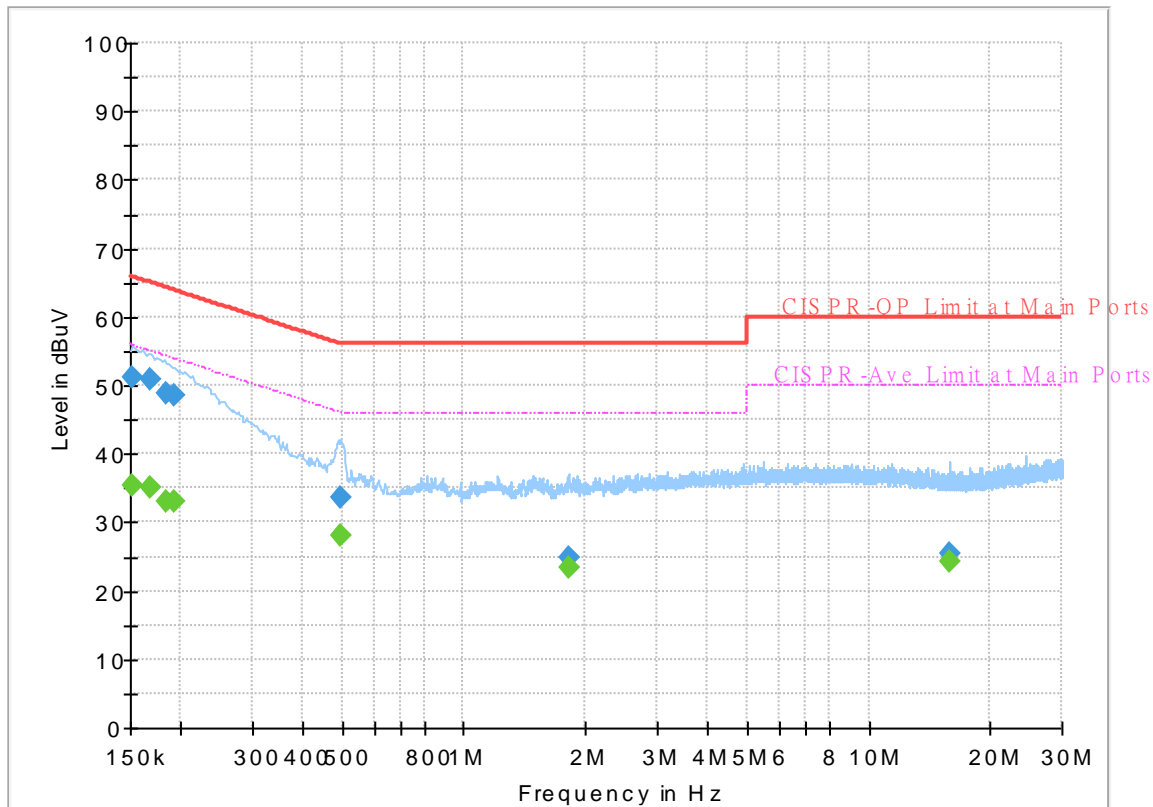
Final_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.151890 | --- | 36.76 | 55.90 | 19.14 | L1 | OFF | 19.6 |
| 0.151890 | 53.22 | --- | 65.90 | 12.68 | L1 | OFF | 19.6 |
| 0.165120 | --- | 35.97 | 55.20 | 19.23 | L1 | OFF | 19.6 |
| 0.165120 | 52.34 | --- | 65.20 | 12.86 | L1 | OFF | 19.6 |
| 0.176550 | --- | 34.60 | 54.65 | 20.05 | L1 | OFF | 19.6 |
| 0.176550 | 51.14 | --- | 64.65 | 13.51 | L1 | OFF | 19.6 |
| 0.192750 | --- | 33.92 | 53.92 | 20.00 | L1 | OFF | 19.6 |
| 0.192750 | 50.03 | --- | 63.92 | 13.89 | L1 | OFF | 19.6 |
| 0.213090 | --- | 32.47 | 53.08 | 20.61 | L1 | OFF | 19.6 |
| 0.213090 | 48.24 | --- | 63.08 | 14.84 | L1 | OFF | 19.6 |
| 0.234960 | --- | 32.56 | 52.27 | 19.71 | L1 | OFF | 19.6 |
| 0.234960 | 45.98 | --- | 62.27 | 16.29 | L1 | OFF | 19.6 |
| 0.485250 | --- | 29.67 | 46.25 | 16.58 | L1 | OFF | 19.6 |
| 0.485250 | 35.70 | --- | 56.25 | 20.55 | L1 | OFF | 19.6 |
| 1.560840 | --- | 23.43 | 46.00 | 22.57 | L1 | OFF | 19.6 |
| 1.560840 | 25.18 | --- | 56.00 | 30.82 | L1 | OFF | 19.6 |
| 7.940220 | --- | 25.20 | 50.00 | 24.80 | L1 | OFF | 20.0 |
| 7.940220 | 26.14 | --- | 60.00 | 33.86 | L1 | OFF | 20.0 |

EUT Information

Test Mode : Mode 1
 Test Voltage : 120Vac/60Hz
 Phase : Neutral

Full Spectrum



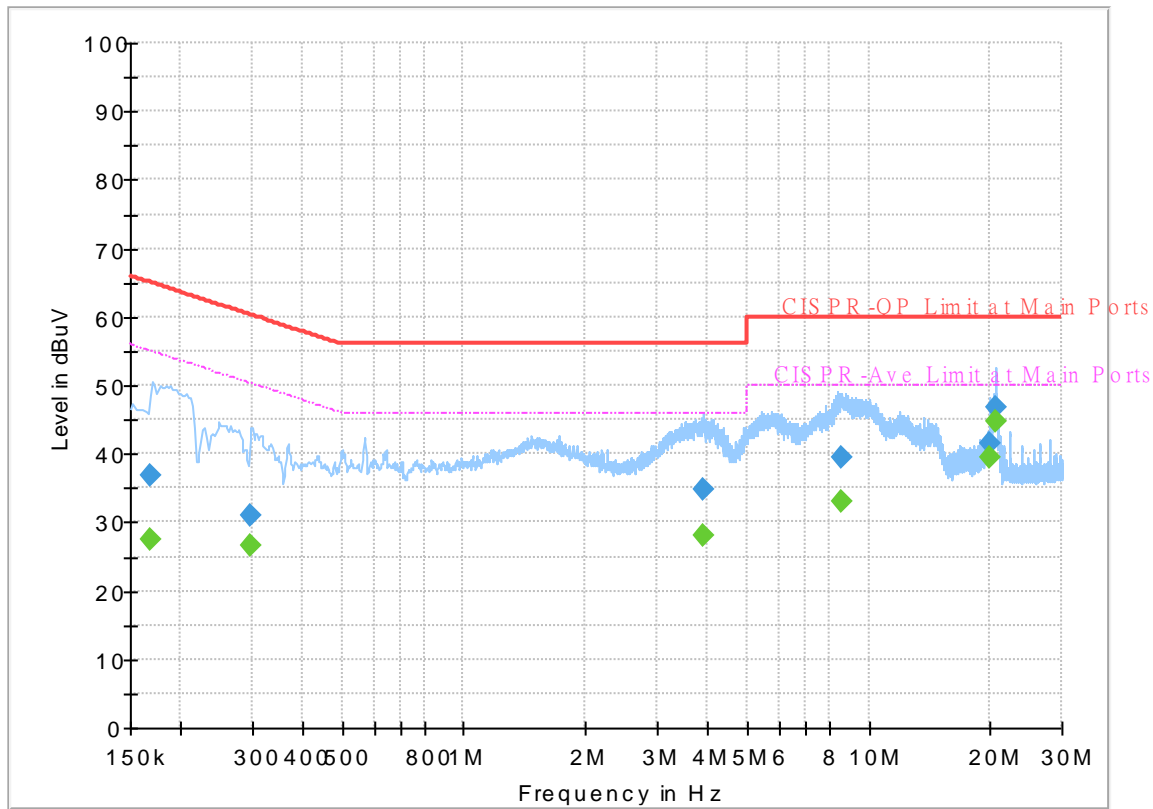
Final_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.152520 | --- | 35.43 | 55.86 | 20.43 | N | OFF | 19.6 |
| 0.152520 | 51.31 | --- | 65.86 | 14.55 | N | OFF | 19.6 |
| 0.167910 | --- | 35.04 | 55.06 | 20.02 | N | OFF | 19.6 |
| 0.167910 | 50.82 | --- | 65.06 | 14.24 | N | OFF | 19.6 |
| 0.183750 | --- | 33.08 | 54.31 | 21.23 | N | OFF | 19.6 |
| 0.183750 | 48.87 | --- | 64.31 | 15.44 | N | OFF | 19.6 |
| 0.192390 | --- | 33.14 | 53.93 | 20.79 | N | OFF | 19.6 |
| 0.192390 | 48.50 | --- | 63.93 | 15.43 | N | OFF | 19.6 |
| 0.496500 | --- | 27.97 | 46.06 | 18.09 | N | OFF | 19.6 |
| 0.496500 | 33.75 | --- | 56.06 | 22.31 | N | OFF | 19.6 |
| 1.810320 | --- | 23.47 | 46.00 | 22.53 | N | OFF | 19.6 |
| 1.810320 | 24.82 | --- | 56.00 | 31.18 | N | OFF | 19.6 |
| 15.864000 | --- | 24.39 | 50.00 | 25.61 | N | OFF | 20.3 |
| 15.864000 | 25.58 | --- | 60.00 | 34.42 | N | OFF | 20.3 |

EUT Information

Test Mode : Mode 2
 Test Voltage : Power From System
 Phase : Line

Full Spectrum



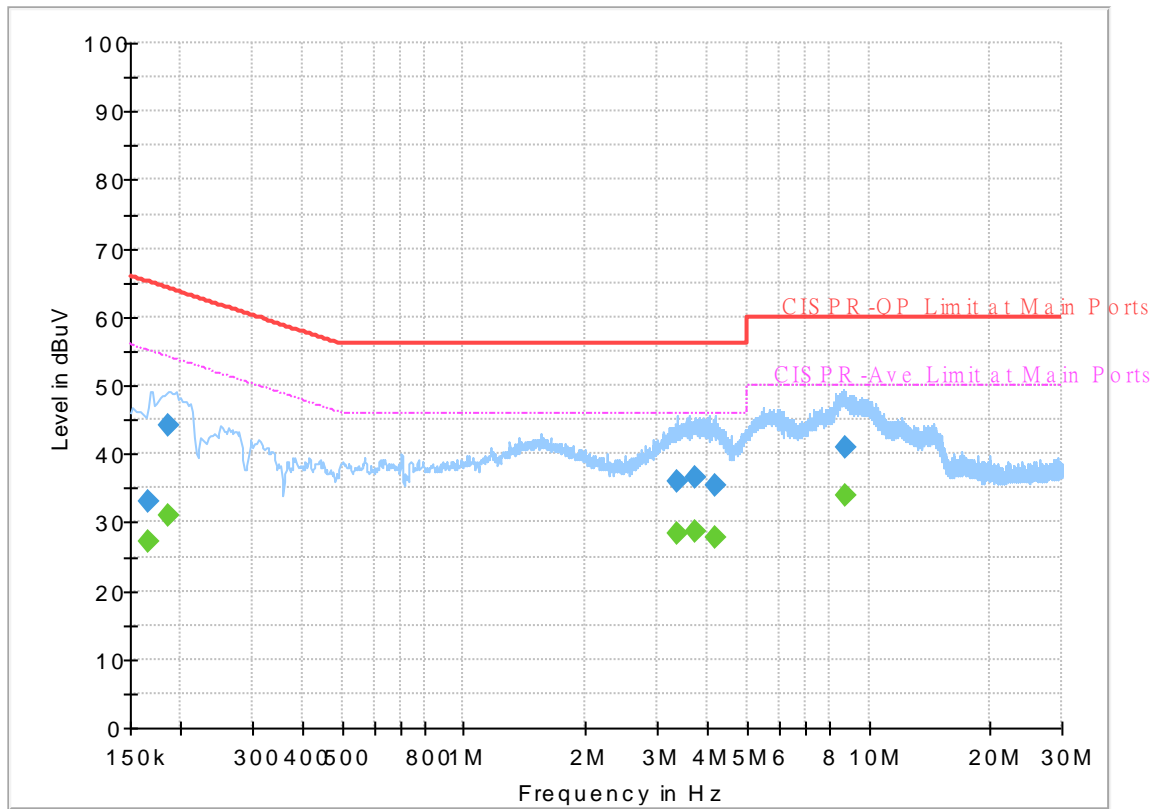
Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.167280 | --- | 27.60 | 55.09 | 27.49 | L1 | OFF | 19.5 |
| 0.167280 | 36.93 | --- | 65.09 | 28.16 | L1 | OFF | 19.5 |
| 0.298050 | --- | 26.71 | 50.30 | 23.59 | L1 | OFF | 19.5 |
| 0.298050 | 31.07 | --- | 60.30 | 29.23 | L1 | OFF | 19.5 |
| 3.894360 | --- | 27.97 | 46.00 | 18.03 | L1 | OFF | 19.7 |
| 3.894360 | 34.75 | --- | 56.00 | 21.25 | L1 | OFF | 19.7 |
| 8.527020 | --- | 32.98 | 50.00 | 17.02 | L1 | OFF | 19.9 |
| 8.527020 | 39.38 | --- | 60.00 | 20.62 | L1 | OFF | 19.9 |
| 19.850280 | --- | 39.61 | 50.00 | 10.39 | L1 | OFF | 20.2 |
| 19.850280 | 41.51 | --- | 60.00 | 18.49 | L1 | OFF | 20.2 |
| 20.679000 | --- | 44.62 | 50.00 | 5.38 | L1 | OFF | 20.2 |
| 20.679000 | 46.92 | --- | 60.00 | 13.08 | L1 | OFF | 20.2 |

EUT Information

Test Mode : Mode 2
 Test Voltage : Power From System
 Phase : Neutral

Full Spectrum



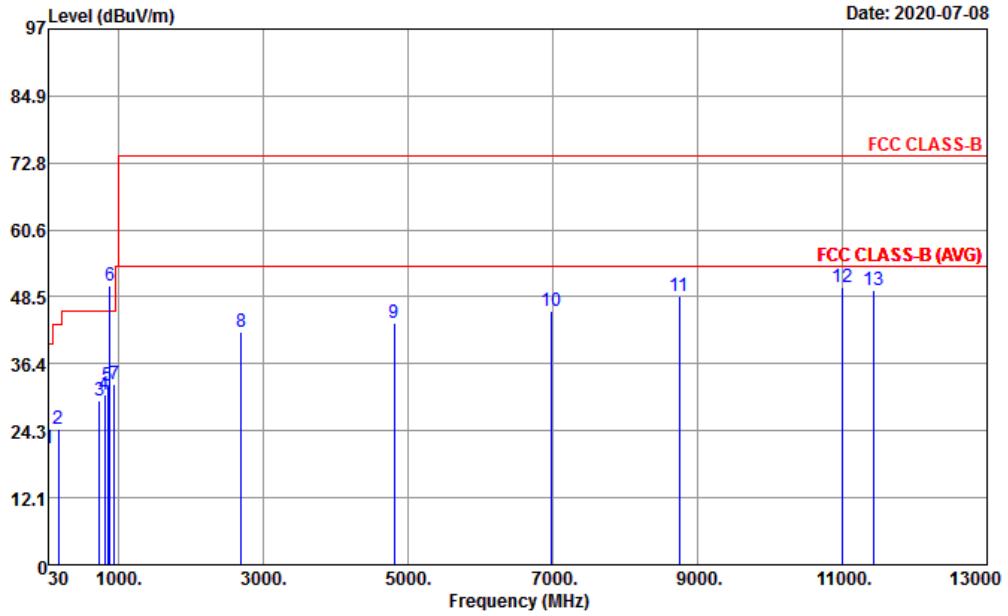
Final_Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Filter | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|--------|------------|
| 0.165750 | --- | 27.28 | 55.17 | 27.89 | N | OFF | 19.6 |
| 0.165750 | 33.01 | --- | 65.17 | 32.16 | N | OFF | 19.6 |
| 0.186000 | --- | 30.99 | 54.21 | 23.22 | N | OFF | 19.6 |
| 0.186000 | 44.16 | --- | 64.21 | 20.05 | N | OFF | 19.6 |
| 3.376860 | --- | 28.38 | 46.00 | 17.62 | N | OFF | 19.7 |
| 3.376860 | 35.93 | --- | 56.00 | 20.07 | N | OFF | 19.7 |
| 3.737850 | --- | 28.65 | 46.00 | 17.35 | N | OFF | 19.7 |
| 3.737850 | 36.64 | --- | 56.00 | 19.36 | N | OFF | 19.7 |
| 4.179210 | --- | 27.67 | 46.00 | 18.33 | N | OFF | 19.7 |
| 4.179210 | 35.49 | --- | 56.00 | 20.51 | N | OFF | 19.7 |
| 8.801250 | --- | 33.83 | 50.00 | 16.17 | N | OFF | 20.0 |
| 8.801250 | 40.81 | --- | 60.00 | 19.19 | N | OFF | 20.0 |



Appendix B. Radiated Emission Test Result

| | | | |
|-----------------|------------|---------------------|------------|
| Mode : | Mode 1 | Temperature : | 20~25°C |
| Test Engineer : | Donny Tang | Relative Humidity : | 50~65% |
| Test Distance : | 3m | Polarization : | Horizontal |

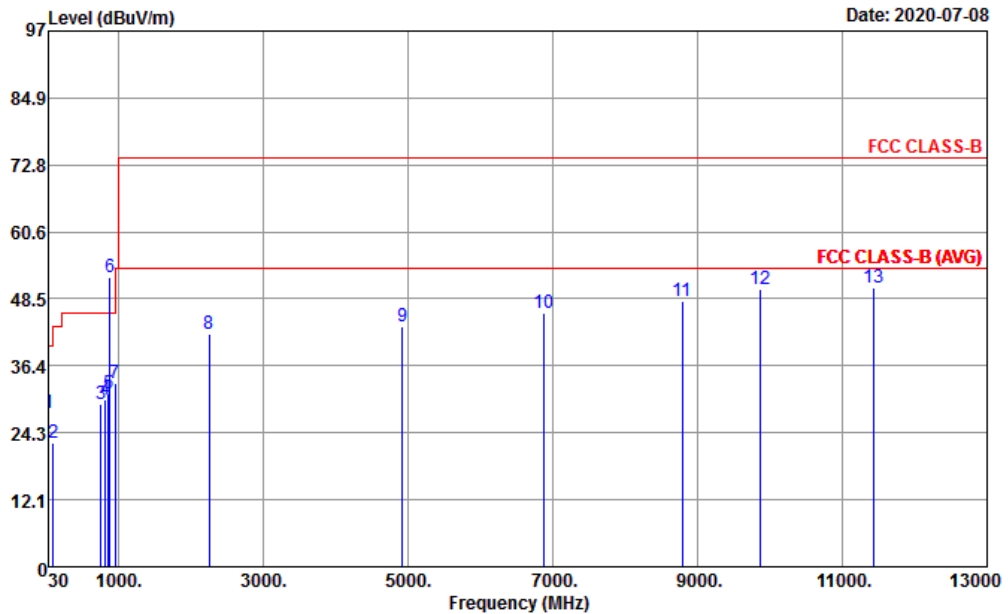


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL

| | Freq | Level | Over Limit | Limit | Antenna Line Factor | Read Level | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|-----|----------|--------|------------|--------|---------------------|------------|------------|---------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dB/m | dBuV | dB | dB | cm | deg | |
| 1 | 31.94 | 21.19 | -18.81 | 40.00 | 23.06 | 30.01 | 0.60 | 32.48 | --- | --- | Peak |
| 2 | 170.65 | 24.57 | -18.93 | 43.50 | 15.67 | 39.79 | 1.40 | 32.29 | --- | --- | Peak |
| 3 | 741.01 | 29.73 | -16.27 | 46.00 | 27.94 | 31.10 | 3.01 | 32.32 | --- | --- | Peak |
| 4 | 812.79 | 30.70 | -15.30 | 46.00 | 27.79 | 31.86 | 3.17 | 32.12 | --- | --- | Peak |
| 5 | 849.65 | 32.38 | -13.62 | 46.00 | 29.00 | 32.00 | 3.26 | 31.88 | --- | --- | Peak |
| 6 * | 876.50 | 50.47 | 4.47 | 46.00 | 28.94 | 49.92 | 3.31 | 31.70 | --- | --- | Peak |
| 7 | 946.65 | 32.67 | -13.33 | 46.00 | 30.49 | 29.77 | 3.44 | 31.03 | 100 | 133 | Peak |
| 8 | 2694.00 | 42.12 | -31.88 | 74.00 | 27.79 | 65.92 | 6.31 | 57.90 | --- | --- | Peak |
| 9 | 4808.00 | 43.89 | -30.11 | 74.00 | 31.20 | 62.71 | 8.47 | 58.49 | --- | --- | Peak |
| 10 | 6980.00 | 45.97 | -28.03 | 74.00 | 35.32 | 59.97 | 10.27 | 59.59 | --- | --- | Peak |
| 11 | 8746.00 | 48.63 | -25.37 | 74.00 | 37.69 | 59.80 | 11.63 | 60.49 | --- | --- | Peak |
| 12 | 10996.00 | 50.23 | -23.77 | 74.00 | 40.20 | 56.17 | 12.82 | 58.96 | 100 | 188 | Peak |
| 13 | 11428.00 | 49.72 | -24.28 | 74.00 | 39.80 | 55.73 | 13.11 | 58.92 | --- | --- | Peak |



| | | | |
|-----------------|------------|---------------------|----------|
| Mode : | Mode 1 | Temperature : | 20~25°C |
| Test Engineer : | Donny Tang | Relative Humidity : | 50~65% |
| Test Distance : | 3m | Polarization : | Vertical |

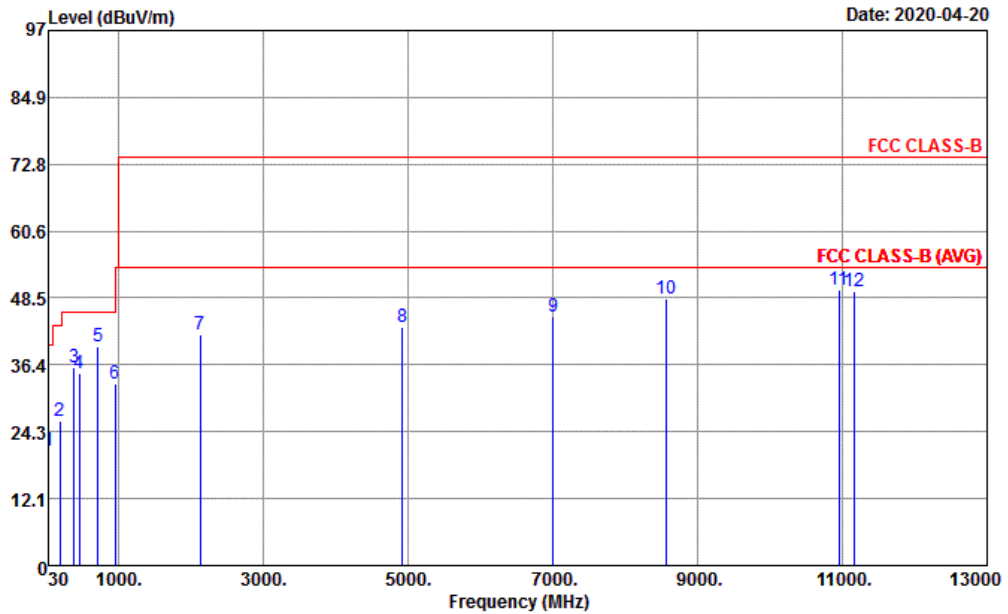


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL

| | Freq | Level | Over Limit | LimitAntenna Line | Antenna Factor | Read Level | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|-----|----------|--------|------------|-------------------|----------------|------------|------------|---------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dB/m | dBuV | dB | dB | cm | deg | |
| 1 | 30.00 | 27.82 | -12.18 | 40.00 | 23.88 | 35.85 | 0.58 | 32.49 | 100 | 118 | Peak |
| 2 | 98.87 | 22.53 | -20.97 | 43.50 | 15.92 | 37.92 | 1.05 | 32.36 | --- | --- | Peak |
| 3 | 752.65 | 29.50 | -16.50 | 46.00 | 27.97 | 30.80 | 3.03 | 32.30 | --- | --- | Peak |
| 4 | 821.52 | 30.22 | -15.78 | 46.00 | 28.03 | 31.07 | 3.19 | 32.07 | --- | --- | Peak |
| 5 | 860.32 | 31.31 | -14.69 | 46.00 | 29.08 | 30.76 | 3.28 | 31.81 | --- | --- | Peak |
| 6 * | 876.50 | 52.33 | 6.33 | 46.00 | 28.94 | 51.78 | 3.31 | 31.70 | --- | --- | Peak |
| 7 | 952.47 | 33.18 | -12.82 | 46.00 | 30.77 | 29.92 | 3.45 | 30.96 | --- | --- | Peak |
| 8 | 2248.00 | 42.03 | -31.97 | 74.00 | 27.90 | 66.20 | 5.71 | 57.78 | --- | --- | Peak |
| 9 | 4926.00 | 43.43 | -30.57 | 74.00 | 31.20 | 62.09 | 8.64 | 58.50 | --- | --- | Peak |
| 10 | 6874.00 | 45.89 | -28.11 | 74.00 | 34.94 | 60.46 | 10.08 | 59.59 | --- | --- | Peak |
| 11 | 8784.00 | 47.99 | -26.01 | 74.00 | 37.90 | 58.99 | 11.65 | 60.55 | --- | --- | Peak |
| 12 | 9858.00 | 50.20 | -23.80 | 74.00 | 39.30 | 59.21 | 12.24 | 60.55 | --- | --- | Peak |
| 13 | 11438.00 | 50.43 | -23.57 | 74.00 | 39.80 | 56.44 | 13.11 | 58.92 | 100 | 157 | Peak |



| | | | |
|-----------------|------------|---------------------|------------|
| Mode : | Mode 2 | Temperature : | 20~25°C |
| Test Engineer : | Donny Tang | Relative Humidity : | 50~65% |
| Test Distance : | 3m | Polarization : | Horizontal |

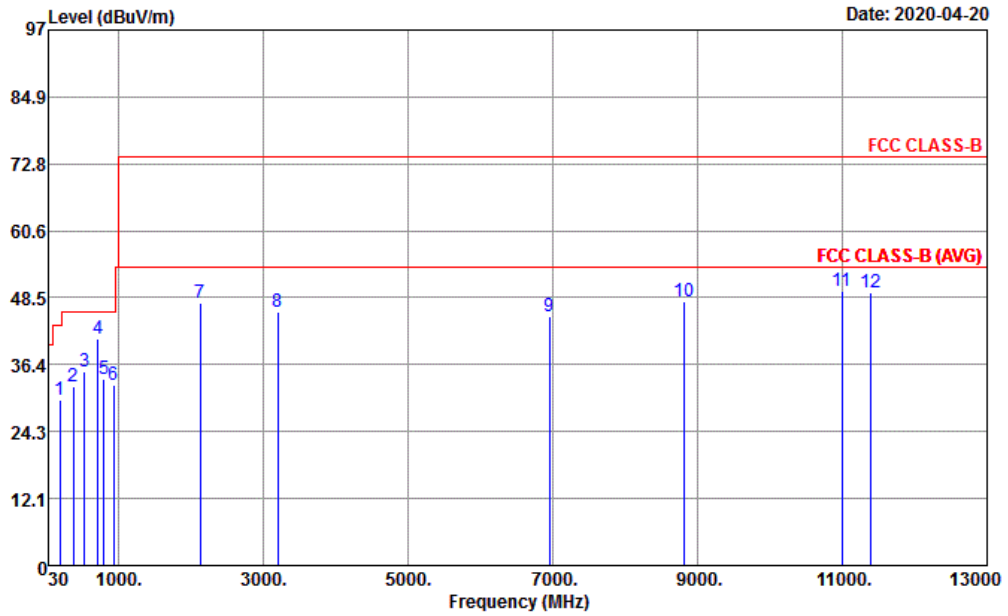


Site : 03CH10-HY
 Condition : FCC CLASS-B 3m HORN 9120D-HF HORIZONTAL

| | Freq | Level | Over Limit | Limit | Antenna Line | Read Level | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|--------|--------------|------------|------------|---------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dB/m | dBuV | dB | dB | cm | deg | |
| 1 | 30.00 | 20.74 | -19.26 | 40.00 | 23.88 | 28.77 | 0.58 | 32.49 | --- | --- | Peak |
| 2 | 185.20 | 26.34 | -17.16 | 43.50 | 14.89 | 42.26 | 1.46 | 32.27 | --- | --- | Peak |
| 3 | 384.05 | 36.01 | -9.99 | 46.00 | 21.28 | 44.86 | 2.14 | 32.27 | --- | --- | Peak |
| 4 | 457.77 | 34.76 | -11.24 | 46.00 | 23.37 | 41.40 | 2.35 | 32.36 | --- | --- | Peak |
| 5 | 719.67 | 39.59 | -6.41 | 46.00 | 27.07 | 41.90 | 2.97 | 32.35 | 100 | 141 | Peak |
| 6 | 954.41 | 32.84 | -13.16 | 46.00 | 30.82 | 29.50 | 3.46 | 30.94 | --- | --- | Peak |
| 7 | 2124.00 | 41.82 | -32.18 | 74.00 | 27.24 | 66.85 | 5.52 | 57.79 | --- | --- | Peak |
| 8 | 4926.00 | 43.35 | -30.65 | 74.00 | 31.20 | 62.01 | 8.64 | 58.50 | --- | --- | Peak |
| 9 | 7000.00 | 45.08 | -28.92 | 74.00 | 35.40 | 58.96 | 10.31 | 59.59 | --- | --- | Peak |
| 10 | 8558.00 | 48.28 | -25.72 | 74.00 | 37.23 | 59.75 | 11.48 | 60.18 | --- | --- | Peak |
| 11 | 10954.00 | 49.94 | -24.06 | 74.00 | 40.20 | 56.00 | 12.79 | 59.05 | 100 | 106 | Peak |
| 12 | 11166.00 | 49.82 | -24.18 | 74.00 | 39.60 | 56.23 | 12.93 | 58.94 | --- | --- | Peak |



| | | | |
|-----------------|------------|---------------------|----------|
| Mode : | Mode 2 | Temperature : | 20~25°C |
| Test Engineer : | Donny Tang | Relative Humidity : | 50~65% |
| Test Distance : | 3m | Polarization : | Vertical |



Site : 03CH10-HY
 Condition : FCC CLASS-B 3m HORN 9120D-HF VERTICAL

| | Freq | Level | Over Limit | Limit | Antenna Line Factor | Read Level | Cable Loss | Preamp Factor | A/Pos | T/Pos | Remark |
|----|----------|--------|------------|--------|---------------------|------------|------------|---------------|-------|-------|--------|
| | MHz | dBuV/m | dB | dBuV/m | dB/m | dBuV | dB | dB | cm | deg | |
| 1 | 188.11 | 30.08 | -13.42 | 43.50 | 14.83 | 46.05 | 1.47 | 32.27 | --- | --- | Peak |
| 2 | 373.38 | 32.37 | -13.63 | 46.00 | 20.95 | 41.57 | 2.11 | 32.26 | --- | --- | Peak |
| 3 | 531.49 | 35.12 | -10.88 | 46.00 | 24.14 | 40.89 | 2.54 | 32.45 | --- | --- | Peak |
| 4 | 719.67 | 41.13 | -4.87 | 46.00 | 27.07 | 43.44 | 2.97 | 32.35 | 100 | 187 | Peak |
| 5 | 796.30 | 33.88 | -12.12 | 46.00 | 28.03 | 34.94 | 3.13 | 32.22 | --- | --- | Peak |
| 6 | 932.10 | 32.57 | -13.43 | 46.00 | 29.64 | 30.71 | 3.41 | 31.19 | --- | --- | Peak |
| 7 | 2130.00 | 47.53 | -26.47 | 74.00 | 27.32 | 72.46 | 5.53 | 57.78 | --- | --- | Peak |
| 8 | 3198.00 | 45.94 | -28.06 | 74.00 | 28.80 | 68.51 | 6.86 | 58.23 | --- | --- | Peak |
| 9 | 6958.00 | 45.20 | -28.80 | 74.00 | 35.23 | 59.33 | 10.23 | 59.59 | --- | --- | Peak |
| 10 | 8810.00 | 47.81 | -26.19 | 74.00 | 38.00 | 58.75 | 11.65 | 60.59 | --- | --- | Peak |
| 11 | 10994.00 | 49.83 | -24.17 | 74.00 | 40.20 | 55.77 | 12.82 | 58.96 | 100 | 117 | Peak |
| 12 | 11394.00 | 49.43 | -24.57 | 74.00 | 39.79 | 55.49 | 13.08 | 58.93 | --- | --- | Peak |

————THE END————