



FCC PART 15B, CLASS B
TEST REPORT

For

Crestron Electronics Inc.

15 Volvo Drive, Rockleigh, New Jersey, 07647, USA

FCC ID: EROAM-3100

| | |
|---|---|
| Report Type: Original Report | Product Type: Wireless Presentation System |
| Test Engineer: Haiguo Li Harris He Kilroy Deng Alan He | <i>Haiguo Li Harris He Kilroy Deng Alan He</i> |
| Report Number: | RSZ210118001-EM-00 |
| Report Date: | 2021-03-25 |
| Reviewed By: Moon Liu EMC Engineer | <i>Moon Liu</i> |
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GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | |
|-----------------------------|---|
| Product | Wireless Presentation System |
| Tested Model | M202018001 |
| SKU | AM-3100-WF(For US), AM-3100-WF-I(For World) |
| Voltage Range | DC 24V from adapter or DC 48V from POE |
| Highest operating frequency | 1.8GHz |
| Date of Test | 2021-03-10 to 2021-03-16 |
| Sample number | RSZ210118001-EM-S1(Assigned by BACL, Shenzhen) |
| Received date | 2021-01-18 |
| Sample/EUT Status | Good condition |
| Applicant | Crestron Electronics Inc |
| Applicant Address | 15 Volvo Drive, Rockleigh, New Jersey, 07647, USA |
| Manufacturer | Crestron Electronics Inc |
| Manufacturer Address | 15 Volvo Drive, Rockleigh, New Jersey, 07647, USA |

Objective

This test report is in accordance with Part 2-Subpart J, Part 15-Subparts A, B of the Federal Communication Commissions rules.

The objective of the manufacturer is to determine the compliance of the EUT with FCC Part 15 B.

Test Methodology

All measurements contained in this report were conducted with ANSI C63.4-2014, American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the range of 9 kHz to 40 GHz.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

All measurements involve certain levels of uncertainties, especially in field of EMC. The factors contributing to uncertainties are spectrum analyzer, cable loss, antenna factor calibration, antenna directivity, antenna factor variation with height, antenna phase center variation, antenna factor frequency interpolation, measurement distance variation, site imperfections, mismatch (average), and system repeatability.

Based on CISPR 16-4-2:2011, the expanded combined standard uncertainty of test at Bay Area Compliance Laboratories Corp. (Shenzhen) is shown as below. And the uncertainty will be taken into consideration for the test data recorded in the report

| Parameter | | uncertainty |
|---------------------|------------|-------------|
| Conducted Emissions | | ±1.95dB |
| Radiated Emissions | Below 1GHz | ±4.75dB |
| | Above 1GHz | ±4.88dB |

Note: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval. Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 5F(B-West), 6F, 7F, the 3rd Phase of Wan Li Industrial Building D, Shihua Rd, FuTian Free Trade Zone, Shenzhen, China.

The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database, FCC Registration No.: 342867, the FCC Designation No.: CN1221.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in a manufacturer testing fashion.

EUT Exercise Software

No exercise software was used.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|----------------|-----------------|
| Grandstream | Camera | GUV3105 | 2134674613 |
| Gospower | POE | G0720-480-050 | 65496873 |
| Redmi | PC 1 | RedmiBook14 | 2123548 |
| DELL | PC 2 | Latitude E5430 | 590NLV1 |
| SAMSUNG | Monitor | S24E390HL | ZZFRH4ZN303357K |
| HUAWEI | Phone | Mate 30 pro 5G | 31646 |
| Kingston | USB disk | DTSE9H/16G | 65467636 |

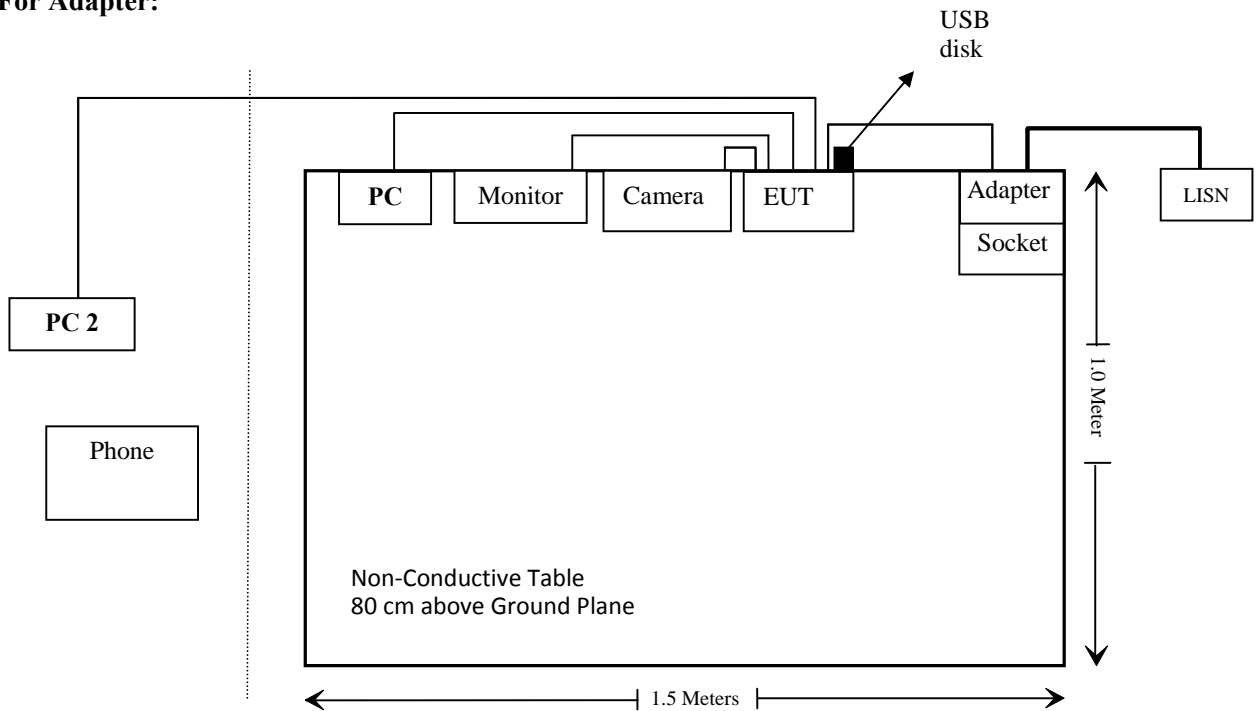
External I/O Cable

| Cable Description | Length (m) | From/Port | To |
|-------------------------------------|------------|-----------|---------|
| Un-Shielded Un-Detachable AC Cable | 1.0 | LISN | Socket |
| Un-Shielded Un-Detachable DC Cable | 1.2 | EUT | Adapter |
| Un-Shielded Detachable RJ45 Cable | 8.0 | EUT | PC 2 |
| Un-Shielded Detachable HDMI Cable | 1.0 | EUT | Monitor |
| Un-Shielded Detachable USB Cable | 2.0 | EUT | PC 1 |
| Un-Shielded Un-Detachable USB Cable | 1.2 | EUT | Camera |
| Un-Shielded Detachable RJ45 Cable | 1.0 | EUT | ISN |
| Un-Shielded Detachable RJ45 Cable | 8.0 | ISN | PC 2 |
| Un-Shielded Detachable AC Cable | 1.0 | POE | LISN |
| Un-Shielded Detachable RJ45 Cable | 1.0 | EUT | POE |
| Un-Shielded Detachable RJ45 Cable | 8.0 | POE | PC 2 |

Block Diagram of Test Setup

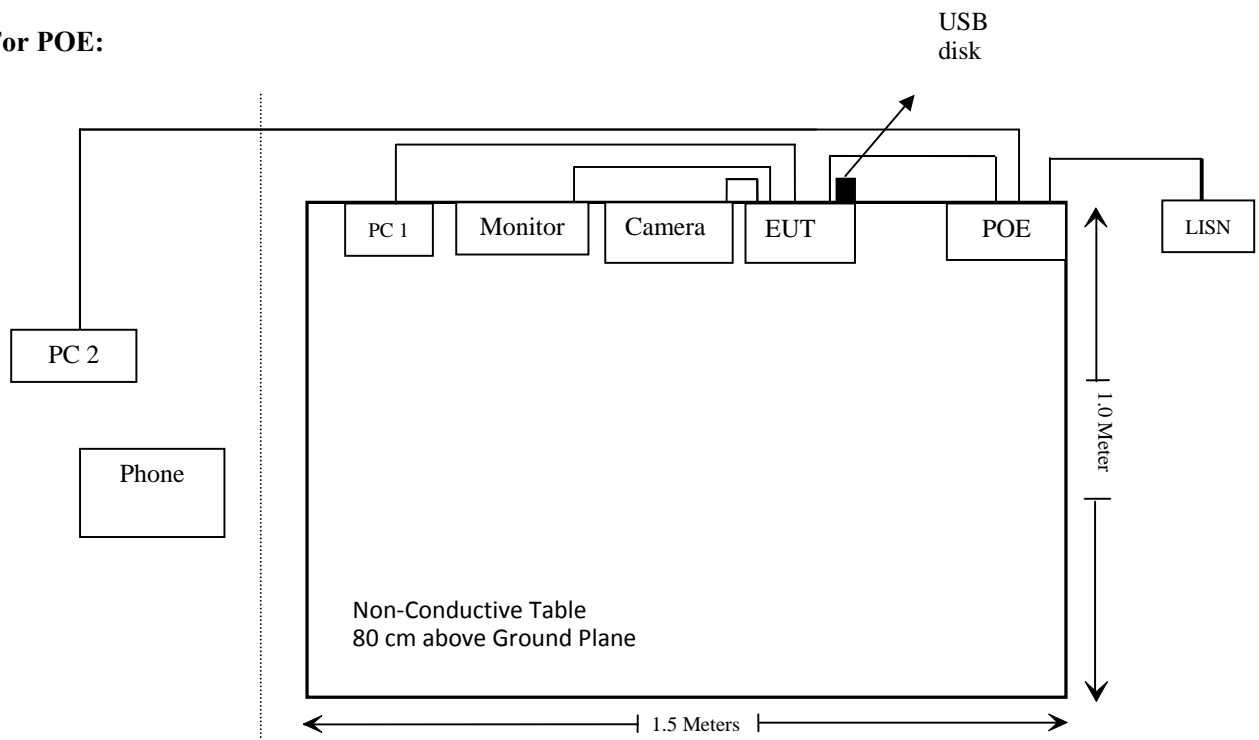
For Conducted Emission:

For Adapter:



Test Set up Connect:

For POE:



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Results |
|------------------|-----------------------------|----------------|
| §15.107 | AC Line Conducted Emissions | Compliance |
| §15.109 | Radiated Spurious Emissions | Compliance |

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--|--------------------|-------------------------|------------------------|------------------|----------------------|
| AC Line Conducted Emission Test | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101120 | 2020/08/04 | 2021/08/03 |
| Rohde & Schwarz | LISN | ENV216 | 101613 | 2020/08/04 | 2021/08/03 |
| Rohde & Schwarz | Transient Limiter | ESH3Z2 | DE25985 | 2020/11/29 | 2021/11/28 |
| Unknown | CE Cable | CE Cable | UF A210B-1-0720-504504 | 2020/11/29 | 2021/11/28 |
| Rohde & Schwarz | CE Test software | EMC 32 | V8.53.0 | NCR | NCR |
| Schwarzbeck | ISN Cat 6 | NTFM 8158 | cat 5-8158-0011 | 2020/08/04 | 2021/08/03 |
| Radiated Emission Test | | | | | |
| R&S | EMI Test Receiver | ESR3 | 102455 | 2020/08/04 | 2021/08/03 |
| Sonoma instrument | Pre-amplifier | 310 N | 186238 | 2020/08/04 | 2021/08/03 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2020/12/22 | 2023/12/21 |
| Unknown | Cable 2 | RF Cable 2 | F-03-EM197 | 2020/11/29 | 2021/11/28 |
| Unknown | Cable | Chamber Cable 1 | F-03-EM236 | 2020/11/29 | 2021/11/28 |
| Rohde & Schwarz | Auto test software | EMC 32 | V9.10 | NCR | NCR |
| Rohde & Schwarz | Spectrum Analyzer | FSV40-N | 102259 | 2020/08/04 | 2021/08/03 |
| COM-POWER | Pre-amplifier | PA-122 | 181919 | 2020/11/29 | 2021/11/28 |
| Quinstar | Amplifier | QLW-18405536-J0 | 15964001002 | 2020/11/29 | 2021/11/28 |
| Sunol Sciences | Horn Antenna | 3115 | 9107-3694 | 2021/01/15 | 2024/01/14 |
| Insulted Wire Inc. | RF Cable | SPS-2503-3150 | 02222010 | 2020/11/29 | 2021/11/28 |
| Unknown | RF Cable | W1101-EQ1 OUT | F-19-EM005 | 2020/11/29 | 2021/11/28 |
| Unknown | Signal Cable | RG-214 | 2 | 2020/11/29 | 2021/11/28 |
| SNSD | Band Reject filter | BSF5150-5850MN-0899-004 | 5G filter | 2020/04/20 | 2021/04/20 |
| Ducommun Technologies | Horn antenna | ARH-4223-02 | 1007726-021304 | 2020/12/06 | 2023/12/05 |
| Ducommun Technologies | Horn antenna | ARH-2823-02 | 1007726-021302 | 2020/12/06 | 2023/12/05 |

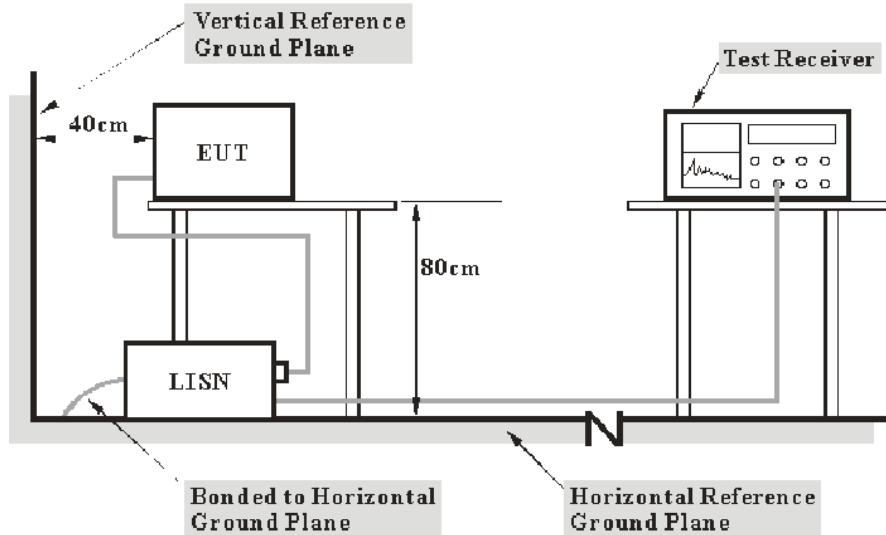
* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC §15.107 – AC LINE CONDUCTED EMISSIONS

Applicable Standard

According to FCC §15.107

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with per ANSI C63.4-2014. The related limit was specified in FCC Part 15.107.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Procedure

During the conducted emission test, the device was connected to the first LISN and the other relevant equipments were connected to the second LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN/ISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

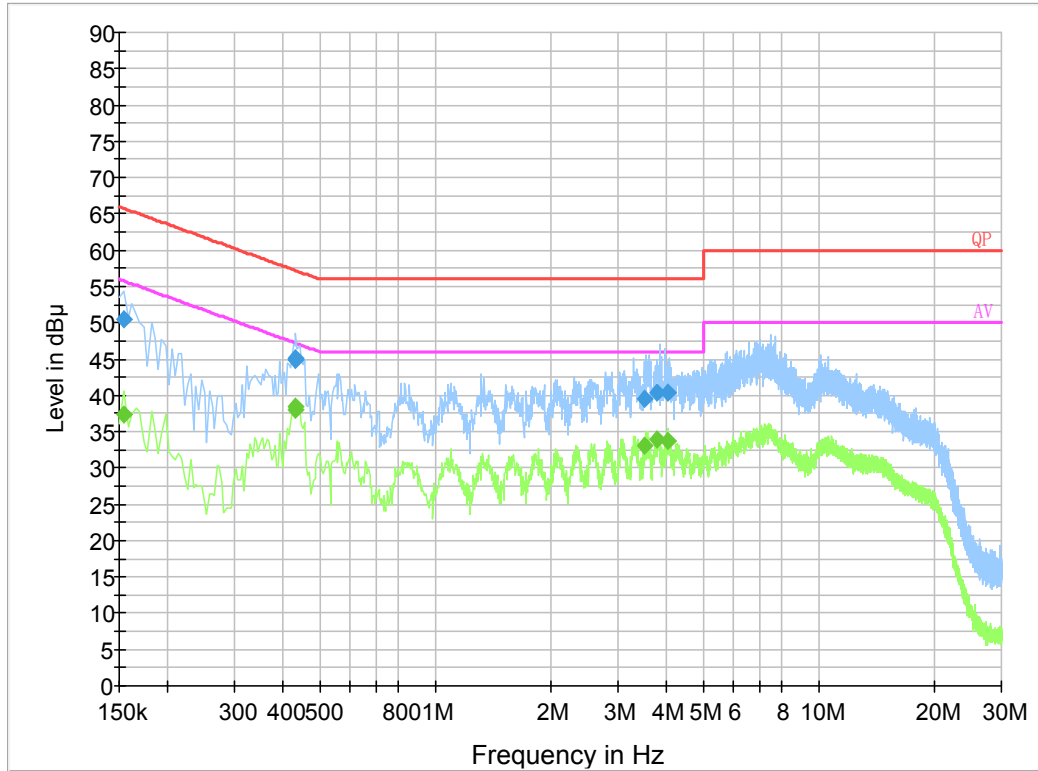
| | |
|---------------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 65 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Haiguo Li on 2021-03-12.

EUT Operation Mode: Full load

For Adapter:

AC 120V/60 Hz, Line



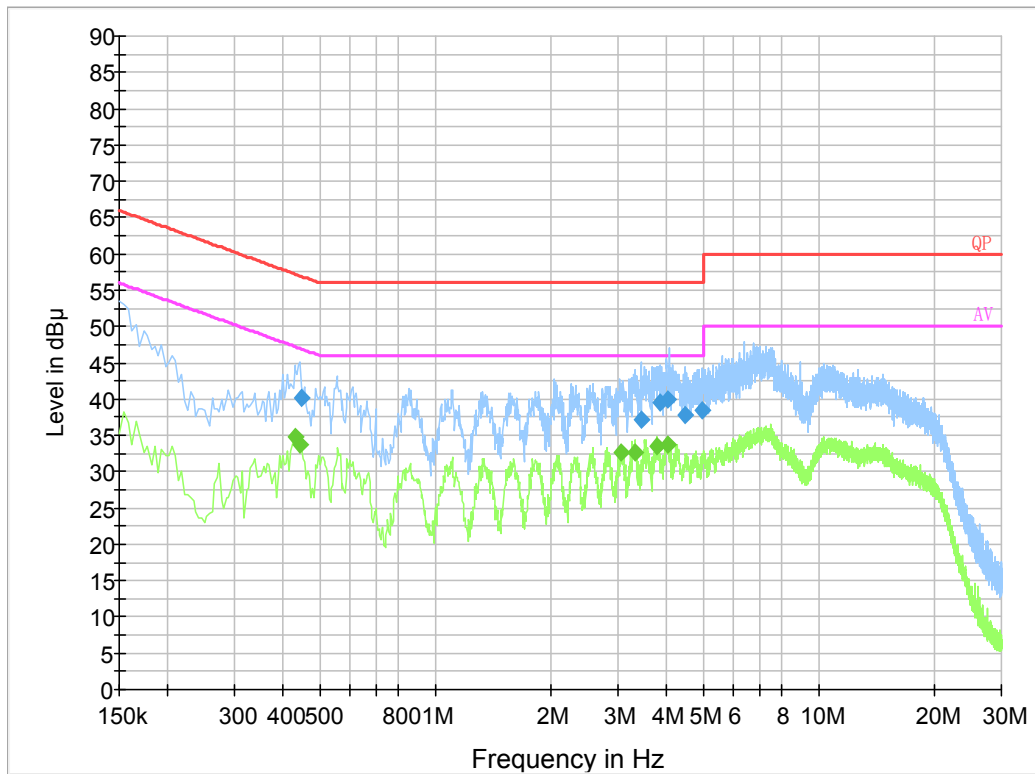
Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|--------------------|-----------------|------|------------|-------------|----------------|
| 0.154000 | 50.5 | 9.000 | L1 | 19.8 | 15.3 | 65.8 |
| 0.431490 | 45.0 | 9.000 | L1 | 19.8 | 12.2 | 57.2 |
| 0.431610 | 45.0 | 9.000 | L1 | 19.8 | 12.2 | 57.2 |
| 3.524690 | 39.6 | 9.000 | L1 | 19.9 | 16.4 | 56.0 |
| 3.800190 | 40.4 | 9.000 | L1 | 19.9 | 15.6 | 56.0 |
| 4.032830 | 40.3 | 9.000 | L1 | 19.9 | 15.7 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------|-----------------|------|------------|-------------|----------------|
| 0.154000 | 37.3 | 9.000 | L1 | 19.8 | 18.5 | 55.8 |
| 0.431490 | 38.4 | 9.000 | L1 | 19.8 | 8.8 | 47.2 |
| 0.431610 | 38.1 | 9.000 | L1 | 19.8 | 9.1 | 47.2 |
| 3.524690 | 33.1 | 9.000 | L1 | 19.9 | 12.9 | 46.0 |
| 3.800190 | 33.9 | 9.000 | L1 | 19.9 | 12.1 | 46.0 |
| 4.032830 | 33.8 | 9.000 | L1 | 19.9 | 12.2 | 46.0 |

AC 120V/60 Hz, Neutral



Final Result 1

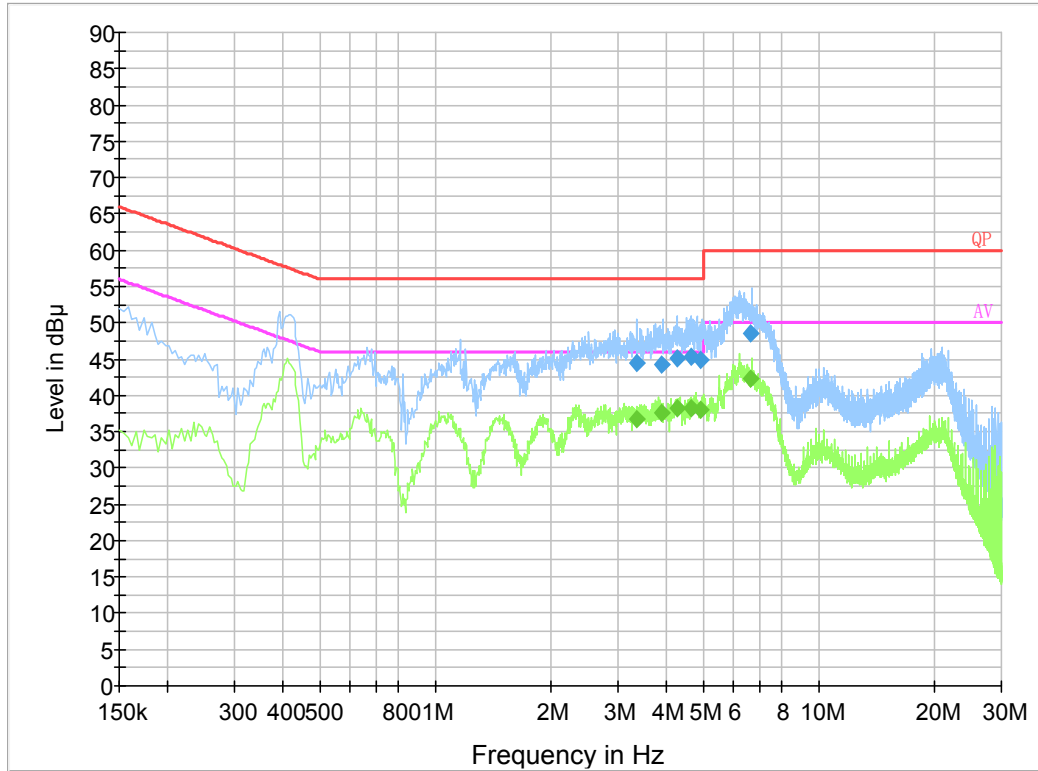
| Frequency (MHz) | QuasiPeak (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|--------------------|-----------------|------|------------|-------------|----------------|
| 0.447310 | 40.2 | 9.000 | N | 19.8 | 16.7 | 56.9 |
| 3.458430 | 37.2 | 9.000 | N | 19.9 | 18.8 | 56.0 |
| 3.847950 | 39.4 | 9.000 | N | 19.9 | 16.6 | 56.0 |
| 4.032890 | 40.0 | 9.000 | N | 19.9 | 16.0 | 56.0 |
| 4.478410 | 37.9 | 9.000 | N | 19.9 | 18.1 | 56.0 |
| 4.975690 | 38.5 | 9.000 | N | 19.9 | 17.5 | 56.0 |

Final Result 2

| Frequency (MHz) | Average (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|------------------|-----------------|------|------------|-------------|----------------|
| 0.430000 | 34.9 | 9.000 | N | 19.8 | 12.4 | 47.3 |
| 0.446000 | 33.7 | 9.000 | N | 19.8 | 13.2 | 46.9 |
| 3.062000 | 32.7 | 9.000 | N | 19.9 | 13.3 | 46.0 |
| 3.322000 | 32.7 | 9.000 | N | 19.9 | 13.3 | 46.0 |
| 3.790000 | 33.4 | 9.000 | N | 19.9 | 12.6 | 46.0 |
| 4.034000 | 33.8 | 9.000 | N | 19.9 | 12.2 | 46.0 |

For POE:

AC 120V/60 Hz, Line



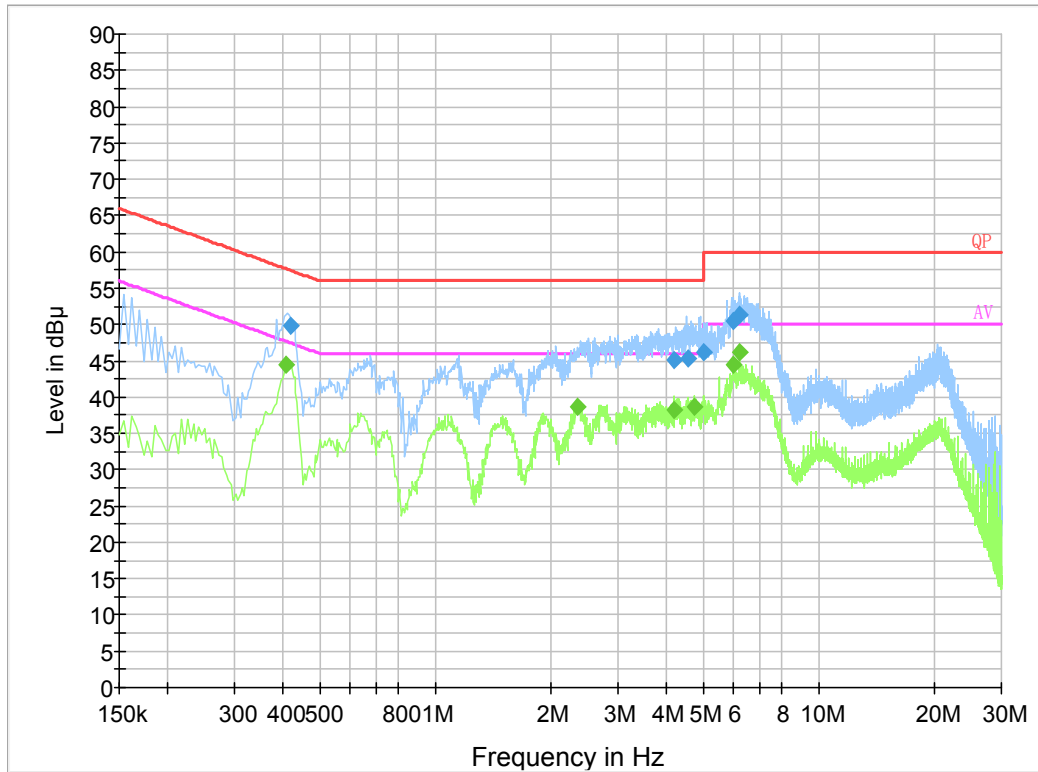
Final Result 1

| Frequency (MHz) | QuasiPeak (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|--------------------|-----------------|------|------------|-------------|----------------|
| 3.363630 | 44.5 | 9.000 | L1 | 19.9 | 11.5 | 56.0 |
| 3.886870 | 44.3 | 9.000 | L1 | 19.9 | 11.7 | 56.0 |
| 4.269830 | 45.2 | 9.000 | L1 | 19.9 | 10.8 | 56.0 |
| 4.660190 | 45.3 | 9.000 | L1 | 19.9 | 10.7 | 56.0 |
| 4.947270 | 44.8 | 9.000 | L1 | 19.9 | 11.2 | 56.0 |
| 6.617290 | 48.5 | 9.000 | L1 | 19.9 | 11.5 | 60.0 |

Final Result 2

| Frequency (MHz) | Average (dB μ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB μ V) |
|-----------------|------------------|-----------------|------|------------|-------------|----------------|
| 3.363630 | 36.8 | 9.000 | L1 | 19.9 | 9.2 | 46.0 |
| 3.886870 | 37.7 | 9.000 | L1 | 19.9 | 8.3 | 46.0 |
| 4.269830 | 38.3 | 9.000 | L1 | 19.9 | 7.7 | 46.0 |
| 4.660190 | 38.3 | 9.000 | L1 | 19.9 | 7.7 | 46.0 |
| 4.947270 | 38.0 | 9.000 | L1 | 19.9 | 8.0 | 46.0 |
| 6.617290 | 42.3 | 9.000 | L1 | 19.9 | 7.7 | 50.0 |

AC 120V/60 Hz, Neutral



Final Result 1

| Frequency (MHz) | QuasiPeak (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|--------------------|-----------------|------|------------|-------------|----------------|
| 0.419790 | 49.9 | 9.000 | N | 19.8 | 7.6 | 57.5 |
| 4.214190 | 45.2 | 9.000 | N | 19.9 | 10.8 | 56.0 |
| 4.554170 | 45.3 | 9.000 | N | 19.9 | 10.7 | 56.0 |
| 5.039450 | 46.1 | 9.000 | N | 19.9 | 13.9 | 60.0 |
| 5.997290 | 50.4 | 9.000 | N | 19.9 | 9.6 | 60.0 |
| 6.236370 | 51.4 | 9.000 | N | 19.9 | 8.6 | 60.0 |

Final Result 2

| Frequency (MHz) | Average (dB µ V) | Bandwidth (kHz) | Line | Corr. (dB) | Margin (dB) | Limit (dB µ V) |
|-----------------|------------------|-----------------|------|------------|-------------|----------------|
| 0.410000 | 44.5 | 9.000 | N | 19.8 | 3.1 | 47.6 |
| 2.358000 | 38.6 | 9.000 | N | 19.8 | 7.4 | 46.0 |
| 4.218000 | 38.3 | 9.000 | N | 19.9 | 7.7 | 46.0 |
| 4.762000 | 38.8 | 9.000 | N | 19.9 | 7.2 | 46.0 |
| 5.998000 | 44.5 | 9.000 | N | 19.9 | 5.5 | 50.0 |
| 6.238000 | 46.2 | 9.000 | N | 19.9 | 3.8 | 50.0 |

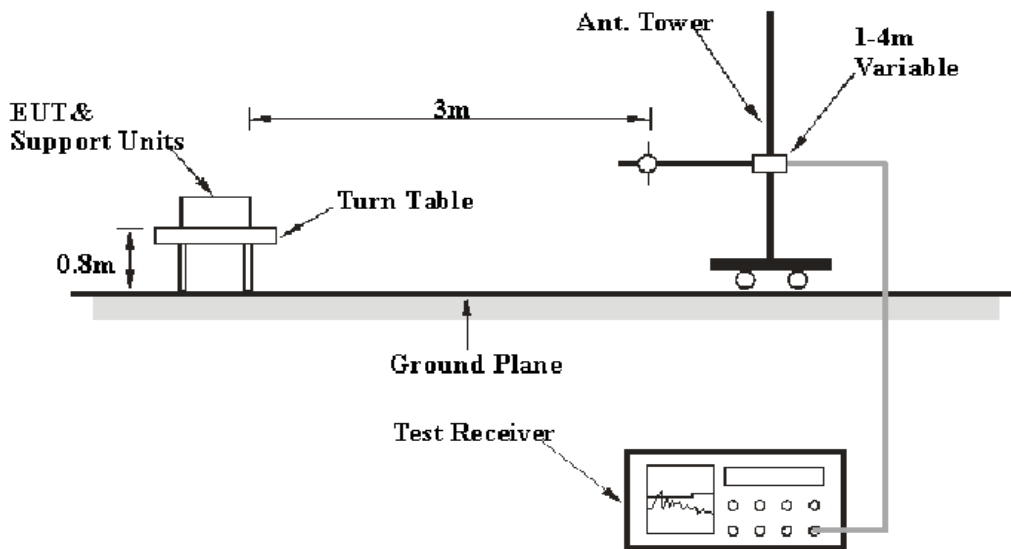
FCC §15.109 - RADIATED SPURIOUS EMISSIONS

Applicable Standard

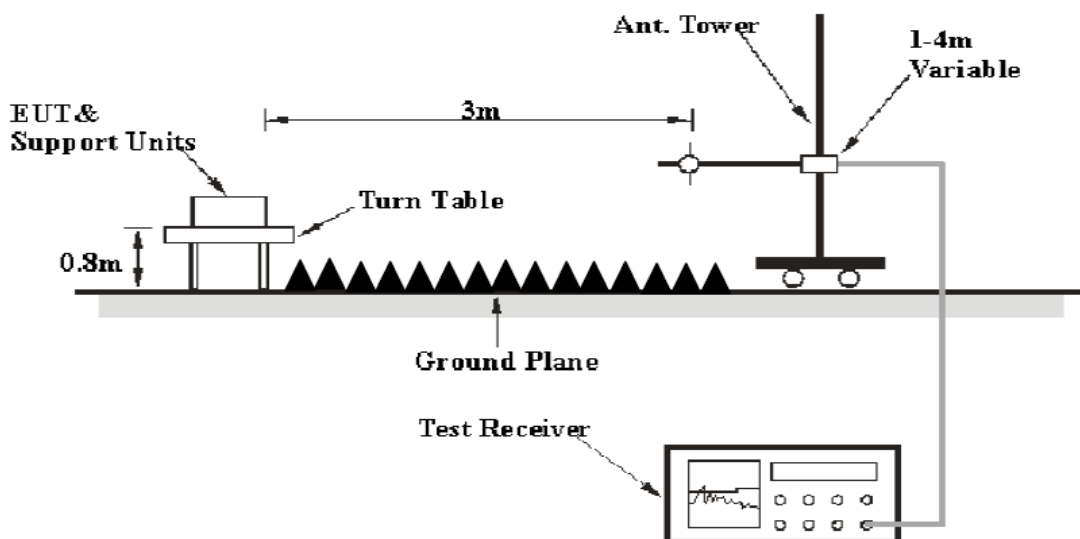
FCC §15.109

EUT Setup

Below 1GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.4-2014. The specification used was the FCC Part 15.109 limits.

The external I/O cables were draped along the test table and formed a bundle 30 to 40 cm long in the middle.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

During the radiated emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|-------------------|---------|-----------|---------|-------------|
| 30 MHz – 1000 MHz | 100 kHz | 300 kHz | 120 kHz | QP |
| Above 1 GHz | 1MHz | 3 MHz | / | PK |
| | 1MHz | 10 Hz | / | Ave. |

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Data

Environmental Conditions

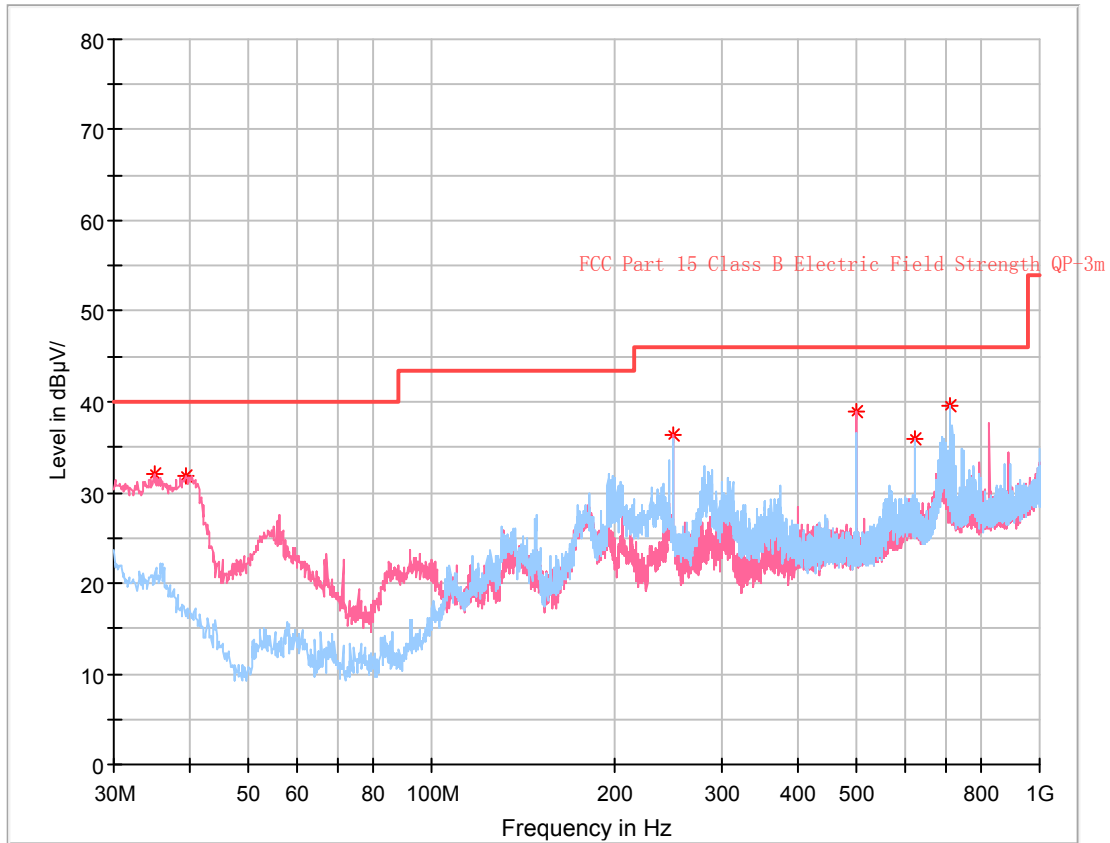
| | |
|---------------------------|-----------------|
| Temperature: | 23.0~25.3 °C |
| Relative Humidity: | 49.0~55.0 % |
| ATM Pressure: | 100.9~101.1 kPa |

The testing was performed by Harris He and Kilroy Deng on 2021-03-10 for below 1GHz and Alan He on 2021-03-16 for above 1GHz.

EUT Operation Mode: Full load

For Adapter:

30 MHz – 1 GHz:



Critical_Freqs

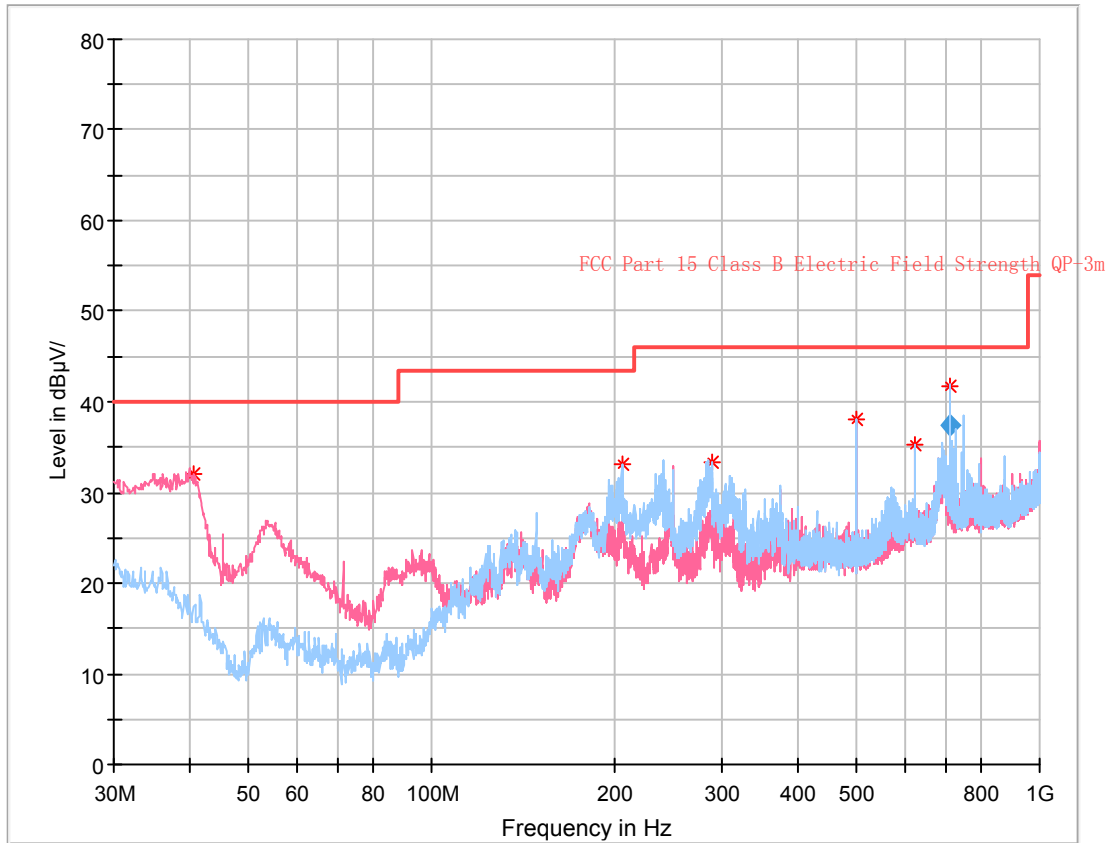
| Frequency (MHz) | MaxPeak (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|------------------|-------------|-------------|-----|---------------|------------|
| 34.971250 | 32.09 | 40.00 | 7.91 | 100.0 | V | 129.0 | -7.3 |
| 39.336250 | 31.86 | 40.00 | 8.14 | 100.0 | V | 47.0 | -10.0 |
| 249.947500 | 36.30 | 46.00 | 9.70 | 200.0 | V | 23.0 | -11.8 |
| 499.965000 | 38.92 | 46.00 | 7.08 | 200.0 | V | 23.0 | -5.1 |
| 624.973750 | 35.94 | 46.00 | 10.06 | 200.0 | V | 161.0 | -2.7 |
| 713.728750 | 39.58 | 46.00 | 6.42 | 100.0 | H | 188.0 | -1.2 |

1-30 GHz:

| Frequency (MHz) | Measurement | | Turntable Degree | Rx Antenna | | Corrected Factor (dB/m) | Corrected Amplitude (dBµV/m) | FCC Part 15B | |
|-----------------|----------------|------------|------------------|------------|---------------|-------------------------|------------------------------|----------------|-------------|
| | Reading (dBµV) | PK/QP/Ave. | | Height (m) | Polar (H / V) | | | Limit (dBµV/m) | Margin (dB) |
| 1036.51 | 49.62 | PK | 141 | 1.5 | H | -6.08 | 43.54 | 74 | 30.46 |
| 1036.51 | 40.05 | Ave. | 141 | 1.5 | H | -6.08 | 33.97 | 54 | 20.03 |
| 1036.51 | 56.32 | PK | 347 | 1.1 | V | -6.08 | 50.24 | 74 | 23.76 |
| 1036.51 | 48.35 | Ave. | 347 | 1.1 | V | -6.08 | 42.27 | 54 | 11.73 |
| 1484.30 | 49.82 | PK | 12 | 1.5 | H | -2.71 | 47.11 | 74 | 26.89 |
| 1484.30 | 42.39 | Ave. | 12 | 1.5 | H | -2.71 | 39.68 | 54 | 14.32 |
| 1484.30 | 48.76 | PK | 81 | 2.5 | V | -2.71 | 46.05 | 74 | 27.95 |
| 1484.30 | 41.53 | Ave. | 81 | 2.5 | V | -2.71 | 38.82 | 54 | 15.18 |

For POE:

30 MHz – 1 GHz:



Final Result

| Frequency (MHz) | QuasiPeak (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|----------------------|------------------|-------------|-------------|-----|---------------|------------|
| 713.661000 | 37.46 | 46.00 | 8.54 | 122.0 | H | 253.0 | -1.2 |

Critical Freqs

| Frequency (MHz) | MaxPeak (dB µ V/m) | Limit (dB µ V/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) |
|-----------------|--------------------|------------------|-------------|-------------|-----|---------------|------------|
| 40.670000 | 32.14 | 40.00 | 7.86 | 100.0 | V | 56.0 | -10.9 |
| 205.327500 | 33.18 | 43.50 | 10.32 | 100.0 | H | 217.0 | -11.1 |
| 290.081250 | 33.44 | 46.00 | 12.56 | 100.0 | H | 226.0 | -10.3 |
| 499.965000 | 38.11 | 46.00 | 7.89 | 200.0 | V | 23.0 | -5.1 |
| 624.973750 | 35.21 | 46.00 | 10.79 | 300.0 | H | 237.0 | -2.7 |
| 713.661000 | 41.68 | 46.00 | 4.32 | 121.0 | H | 253.0 | -1.2 |

***** END OF REPORT *****