



TESTING LABORATORY
CERTIFICATE#4323.01



FCC PART 15.247 TEST REPORT

For

SHANGHAI MERIT TECHNOLOGY CORP.

1058 TAOGAN RD., SHESHAN TOWN, SONGJIANG DISTRICT, SHANGHAI, China

FCC ID: XJ6MT-203-1

| | |
|---|---|
| Report Type: CIIPC | Product Type: 3CH 2.4GHZ FHSS RADIO CONTROL SYSTEM |
| Project Engineer: Miller Xie | <i>Miller Xie</i> |
| Report Number: RSHE210524001-00B | |
| Report Date: 2021-06-07 | |
| Reviewed By: Oscar Ye EMC Manager | <i>Oscar Ye</i> |
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TABLE OF CONTENTS

| | |
|--|-----------|
| GENERAL INFORMATION..... | 3 |
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT) | 3 |
| OBJECTIVE | 3 |
| RELATED SUBMITTAL(S)/GRANT(S)..... | 3 |
| TEST METHODOLOGY | 3 |
| MEASUREMENT UNCERTAINTY | 5 |
| TEST FACILITY | 5 |
| SYSTEM TEST CONFIGURATION..... | 6 |
| DESCRIPTION OF TEST CONFIGURATION | 6 |
| EUT EXERCISE SOFTWARE | 6 |
| SPECIAL ACCESSORIES..... | 7 |
| EQUIPMENT MODIFICATIONS | 7 |
| SUPPORT EQUIPMENT LIST AND DETAILS | 7 |
| EXTERNAL I/O CABLE..... | 7 |
| BLOCK DIAGRAM OF TEST SETUP | 7 |
| SUMMARY OF TEST RESULTS | 9 |
| TEST EQUIPMENT LIST | 10 |
| FCC§15.247 (i), §1.1310 &§2.1093 – RF EXPOSURE | 11 |
| MEASUREMENT RESULT | 11 |
| FCC §15.203 – ANTENNA REQUIREMENT | 12 |
| APPLICABLE STANDARD | 12 |
| ANTENNA INFORMATION | 12 |
| FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS..... | 13 |
| APPLICABLE STANDARD | 13 |
| EUT SETUP | 13 |
| EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP | 14 |
| TEST PROCEDURE | 14 |
| CORRECTED AMPLITUDE & MARGIN CALCULATION | 14 |
| TEST RESULTS SUMMARY | 14 |
| TEST DATA | 15 |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

| | |
|-------------------------------------|---|
| Applicant: | SHANGHAI MERIT TECHNOLOGY CORP. |
| Tested Model: | MT-203 |
| Product Type: | 3CH 2.4GHZ FHSS RADIO CONTROL SYSTEM |
| Power Supply: | DC 6V from 1.5V*4cell "AA" alkaline battery |
| RF Function: | SRD |
| Operating Band/Frequency: | 2405-2450 MHz |
| Total Channel Number: | 46 |
| Hopping Channel Number | 29 |
| Minimum Hopping Channel Separation: | 1 MHz |
| Modulation Type: | GFSK |
| Antenna Type: | Dipole antenna |
| *Maximum Antenna Gain: | 2.0 dBi |

Note*: The maximum antenna gain was provided by the manufacturer.

*All measurement and test data in this report was gathered from production sample serial number: RSHE210524001-1(Assigned by BACL, Kunshan). The EUT was received on 2021-05-24.

Objective

This test report is prepared on behalf of *SHANGHAI MERIT TECHNOLOGY CORP.* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commissions rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, section 15.203, 15.205, 15.209 and 15.247 rules.

This is a CIIPC report base on the original report RSHF200914001-00A with FCC ID: XJ6MT-203-1 grant at 2020-11-02, the differences between the original device and the current one as follows:

1. Comparing with the original certified device, the driver layout has fine adjustment of current device .

The above differences will affect part of tests, "Radiated Emissions" were presented in this report, and other data were referred to the original report.

Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliant Testing of Unlicensed Wireless Devices and FCC 558074 D01 15.247 Meas Guidance v05r02.

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

Measurement Uncertainty

| Item | | Uncertainty |
|------------------------------------|-------------|-------------|
| AC Power Lines Conducted Emissions | | 3.19dB |
| RF conducted test with spectrum | | 0.9dB |
| RF Output Power with Power meter | | 0.5dB |
| Radiated emission | 30MHz~1GHz | 6.11dB |
| | 1GHz~6GHz | 4.45dB |
| | 6GHz~18GHz | 5.23dB |
| | 18GHz~40GHz | 5.65dB |
| Occupied Bandwidth | | 0.5kHz |
| Temperature | | 1.0°C |
| Humidity | | 6% |

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Kunshan) to collect test data is located on the No.248 Chenghu Road, Kunshan, Jiangsu province, China.

Bay Area Compliance Laboratories Corp. (Kunshan) Lab is accredited to ISO/IEC 17025 by A2LA (Lab code: 4323.01), the FCC designation No. CN1185 under the FCC KDB 974614 D01 and CAB identifier CN0004 under the ISED requirement. The facility also complies with the radiated and AC line conducted test site criteria set forth in ANSI C63.4-2014.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

Channel list for FHSS (GFSK) Modulation:

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 2405 | 24 | 2428 |
| 2 | 2406 | 25 | 2429 |
| 3 | 2407 | 26 | 2430 |
| 4 | 2408 | 27 | 2431 |
| 5 | 2409 | 28 | 2432 |
| 6 | 2410 | 29 | 2433 |
| 7 | 2411 | 30 | 2434 |
| 8 | 2412 | 31 | 2435 |
| 9 | 2413 | 32 | 2436 |
| 10 | 2414 | 33 | 2437 |
| 11 | 2415 | 34 | 2438 |
| 12 | 2416 | 35 | 2439 |
| 13 | 2417 | 36 | 2440 |
| 14 | 2418 | 37 | 2441 |
| 15 | 2419 | 38 | 2442 |
| 16 | 2420 | 39 | 2443 |
| 17 | 2421 | 40 | 2444 |
| 18 | 2422 | 41 | 2445 |
| 19 | 2423 | 42 | 2446 |
| 20 | 2424 | 43 | 2447 |
| 21 | 2425 | 44 | 2448 |
| 22 | 2426 | 45 | 2449 |
| 23 | 2427 | 46 | 2450 |

For fixed channel mode: EUT was tested with Channel 1, 24, 46.

For Hopping mode: 29 random frequency hopping channels was test.

EUT Exercise Software

The EUT was tested in the engineering mode; EUT can be setup for fixed channel mode and hopping mode.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

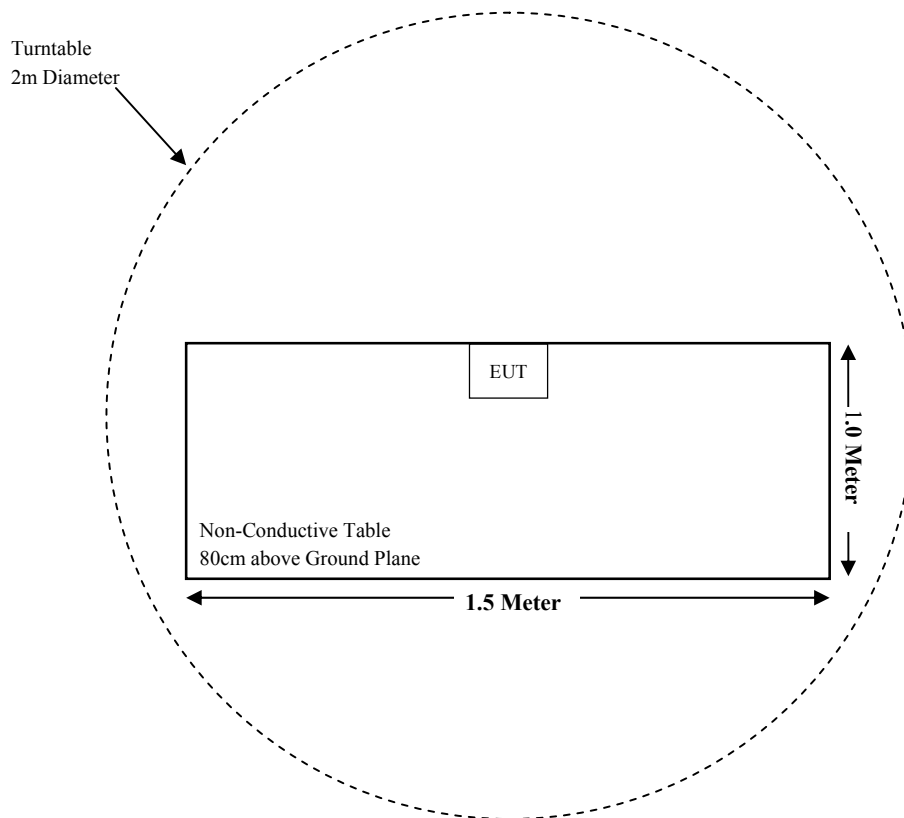
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| / | / | / | / |

External I/O Cable

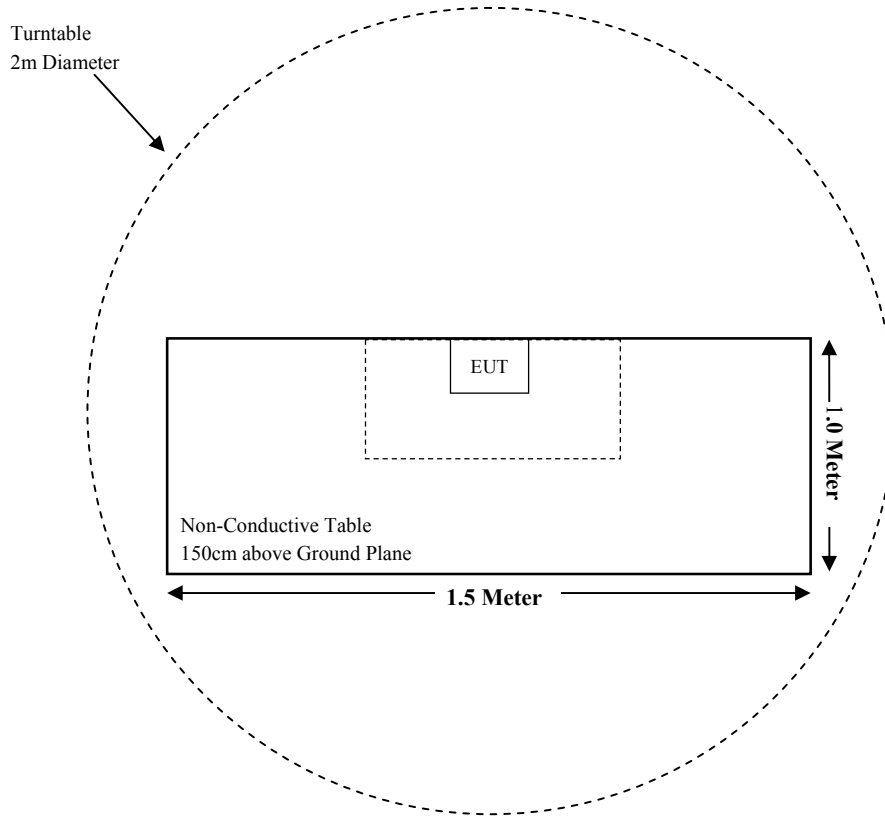
| Cable Description | Length (m) | From Port | To |
|-------------------|------------|-----------|----|
| / | / | / | / |

Block Diagram of Test Setup

For Radiated Emissions (Below 1GHz):



For Radiated Emissions (Above 1GHz):



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|-------------------------------|----------------------------------|---------------------------|
| §15.247 (i)§1.1310 & §2.1093 | RF Exposure | Compliant |
| §15.203 | Antenna Requirement | Compliant |
| §15.207(a) | AC Line Conducted Emissions | Compliant (See Note 1) |
| §15.205, §15.209 & §15.247(d) | Radiated Emissions | Compliant |
| §15.247(a)(1) | 20 dB Emission Bandwidth | Compliant (See Note 1) |
| §15.247(a)(1) | Channel Separation Test | Compliant (See Note 1) |
| §15.247(a)(1)(iii) | Time of Occupancy (Dwell Time) | Compliant (See Note 1) |
| §15.247(a)(1)(iii) | Quantity of hopping channel Test | Compliant (See Note 1) |
| §15.247(b)(1) | Peak Output Power Measurement | Compliant (See Note 1) |
| §15.247(d) | Band edges | Compliant (See Note 1) |

Note 1: For these items, all the test data please refer to the original report RSHF200914001-00A with FCC ID: XJ6MT-203-1

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|--|--------------------|-----------|---------------|------------------|----------------------|
| Radiated Emission Test (Chamber 1#) | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 100195 | 2020-11-27 | 2021-11-26 |
| Sunol Sciences | Broadband Antenna | JB3 | A090314-1 | 2020-08-05 | 2023-08-04 |
| Sonoma Instrument | Pre-amplifier | 310N | 171205 | 2020-08-14 | 2021-08-13 |
| Rohde & Schwarz | Auto test Software | EMC32 | 100361 | N/A | N/A |
| MICRO-COAX | Coaxial Cable | Cable-8 | 008 | 2020-08-15 | 2021-08-14 |
| MICRO-COAX | Coaxial Cable | Cable-9 | 009 | 2020-08-15 | 2021-08-14 |
| MICRO-COAX | Coaxial Cable | Cable-10 | 010 | 2020-08-15 | 2021-08-14 |
| Radiated Emission Test (Chamber 2#) | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESU40 | 100207 | 2021-04-01 | 2022-03-31 |
| ETS-LINDGREN | Horn Antenna | 3115 | 9207-3900 | 2020-07-15 | 2023-07-14 |
| ETS-LINDGREN | Horn Antenna | 3116 | 84159 | 2019-12-12 | 2022-12-11 |
| A.H.Systems,inc | Amplifier | PAM-0118P | 512 | 2020-08-14 | 2021-08-13 |
| EM Electronics Corporation | Amplifier | EM18G40G | 060726 | 2021-03-22 | 2022-03-21 |
| MICRO-TRONICS | Band Reject Filter | BRM50702 | G024 | 2020-08-05 | 2021-08-04 |
| Narda | Attenuator/10dB | 10dB | 010 | 2020-08-15 | 2021-08-14 |
| Rohde & Schwarz | Auto test Software | EMC32 | 100361 | N/A | N/A |
| MICRO-COAX | Coaxial Cable | Cable-6 | 006 | 2020-08-15 | 2021-08-14 |
| MICRO-COAX | Coaxial Cable | Cable-11 | 011 | 2020-08-15 | 2021-08-14 |
| MICRO-COAX | Coaxial Cable | Cable-12 | 012 | 2020-08-15 | 2021-08-14 |
| MICRO-COAX | Coaxial Cable | Cable-13 | 013 | 2020-08-15 | 2021-08-14 |

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

FCC§15.247 (i), §1.1310 &§2.1093 – RF EXPOSURE

Applicable Standard

According to §2.1093 and §1.1307(b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission’s guideline.

According to KDB447498 D01 General RF Exposure Guidance v06:

For 100 MHz to 6 GHz and test separation distances ≤ 50 mm, the 1-g and 10-g SAR test exclusion thresholds are determined by the following:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f(\text{GHz})}] \leq 3.0$ for 1-g SAR, and ≤ 7.5 for 10-g extremity SAR

- $f(\text{GHz})$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

Measurement Result

| Frequency Range (MHz) | Max Tune-up Conducted Power | | Calculated Distance (mm) | Calculated Value | Threshold (10-g SAR) | SAR Test Exclusion |
|-----------------------|-----------------------------|-------|--------------------------|------------------|----------------------|--------------------|
| | (dBm) | (mW) | | | | |
| 2405-2450 | 18.60 | 72.44 | 20 | 5.67 | 7.5 | Yes |

Note:

1. This is a handheld device



Result: No SAR test is required.

FCC §15.203 – ANTENNA REQUIREMENT

Applicable Standard

According to FCC § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this Section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

Antenna Information

The EUT has a dipole antenna, which the antenna gain is 2.0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

Result: Compliant.

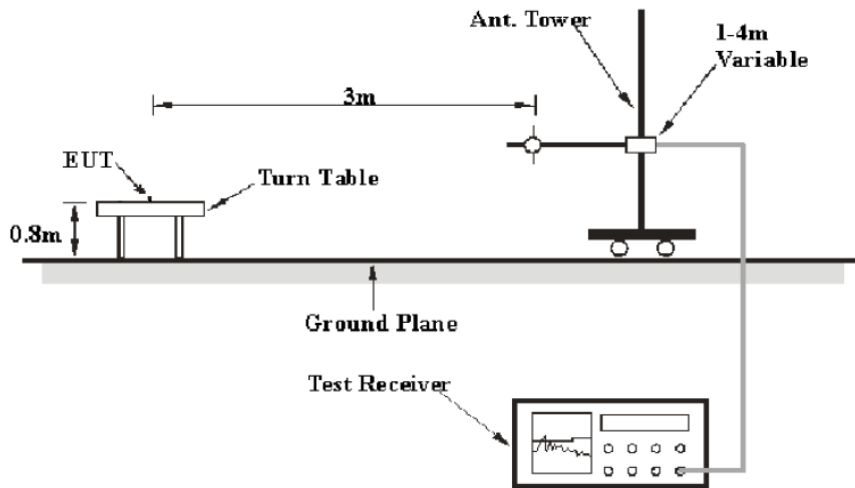
FCC §15.205, §15.209 & §15.247(d) – RADIATED EMISSIONS

Applicable Standard

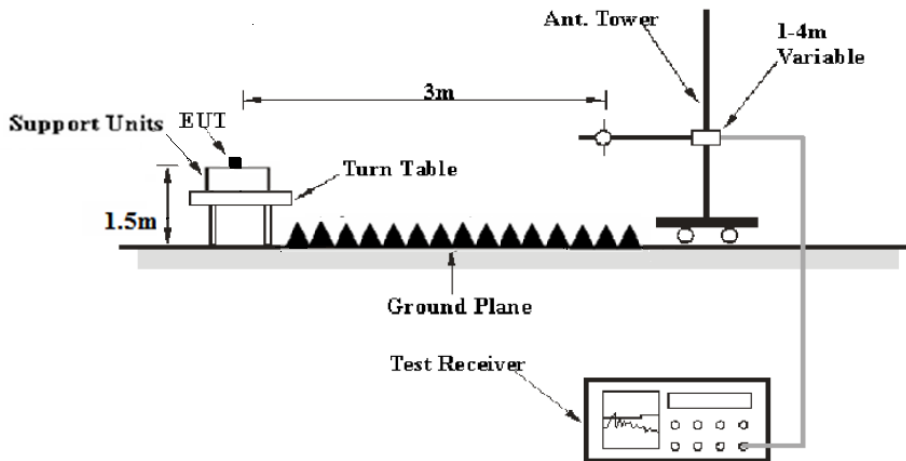
FCC §15.205; §15.209; §15.247(d)

EUT Setup

Below 1 GHz:



Above 1GHz:



The radiated emission tests were performed in the 3 meters, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209 and FCC 15.247 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 25 GHz.

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

| Frequency Range | RBW | Video B/W | IF B/W | Detector |
|-------------------|---------|-----------|---------|----------|
| 30 MHz - 1000 MHz | 120 kHz | 300 kHz | 120 kHz | QP |
| Above 1GHz | 1MHz | 3 MHz | / | PK |
| | 1MHz | 3 MHz | / | AVG |

Test Procedure

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

All final data was recorded in Quasi-peak detection mode for frequency range of 30 MHz -1 GHz and peak and Average detection 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 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

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

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.205, 15.209 and 15.247.

Test Data

Environmental Conditions

| | |
|---------------------------|-----------------|
| Temperature: | 22.9 °C~23.5 °C |
| Relative Humidity: | 51%~55% |
| ATM Pressure: | 101kPa~102kPa |

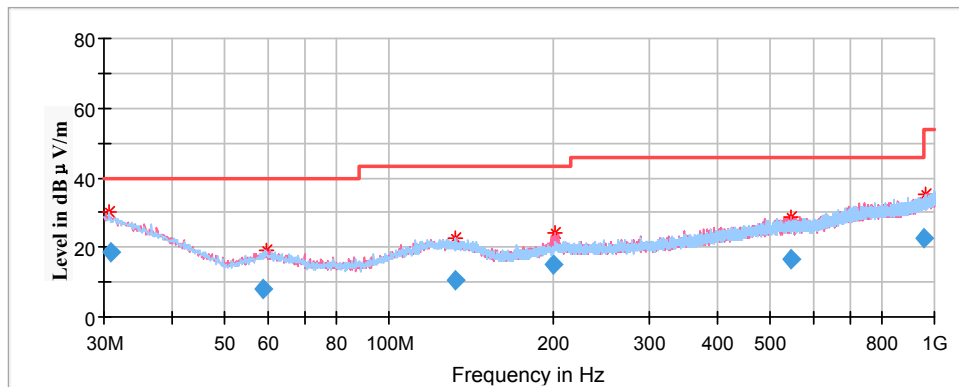
The testing was performed by Miller Xie from 2021-05-24 to 2021-05-28.

EUT operation mode: Transmitting

Spurious Emission Test:

30MHz-1GHz:

Pre-Scan with low, middle and high channels in the X,Y and Z axes of orientation, the worst case **low channel in X-axis of orientation** was recorded



| Frequency (MHz) | Corrected Amplitude | Rx Antenna | | Turntable Degree | Corrected Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|---------------------|-------------|-------------|------------------|-------------------------|----------------|-------------|
| | QuasiPeak (dBµV/m) | Height (cm) | Polar (H/V) | | | | |
| 30.879904 | 18.65 | 200.0 | H | 0.0 | -4.2 | 40.00 | 21.35 |
| 58.607600 | 7.98 | 199.0 | V | 169.0 | -14.8 | 40.00 | 32.02 |
| 132.298300 | 10.77 | 200.0 | H | 341.0 | -11.3 | 43.50 | 32.73 |
| 200.759700 | 15.21 | 100.0 | V | 308.0 | -12.0 | 43.50 | 28.29 |
| 546.373200 | 16.45 | 199.0 | V | 107.0 | -5.2 | 46.00 | 29.55 |
| 956.966900 | 22.59 | 199.0 | V | 2.0 | 1.7 | 46.00 | 23.41 |

1GHz-18GHz

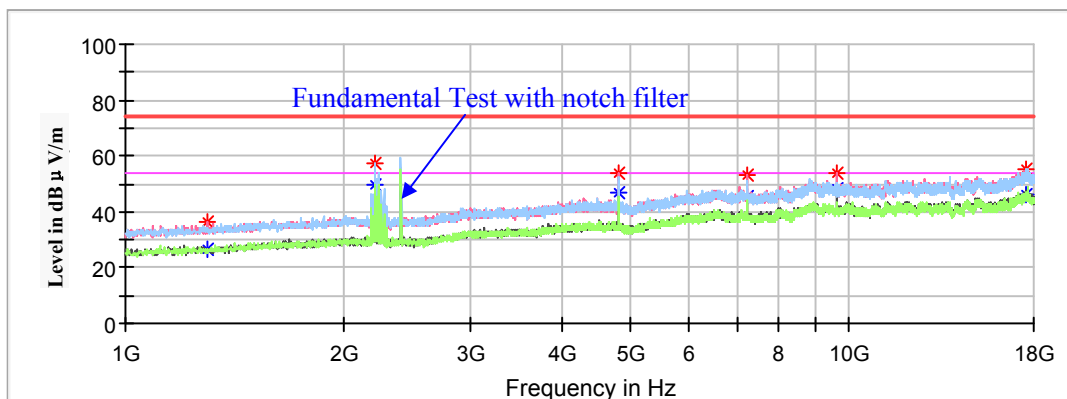
(Pre-scan in the X,Y and Z axes of orientation, the worst case X-axis of orientation was recorded.)

Note:

1. This test was performed with the 2.4 - 2.5GHz notch filter.
2. Corrected Factor (dB/m) = Antenna factor (RX) (dB/m) + Cable Loss (dB) - Amplifier Factor (dB)
 Corrected Amplitude (dBµV/m) = Corrected Factor (dB/m) + Reading (dBµV)
 Margin (dB) = Limit (dBµV/m) - Corrected Amplitude (dBµV/m)

Low Channel: 2405MHz

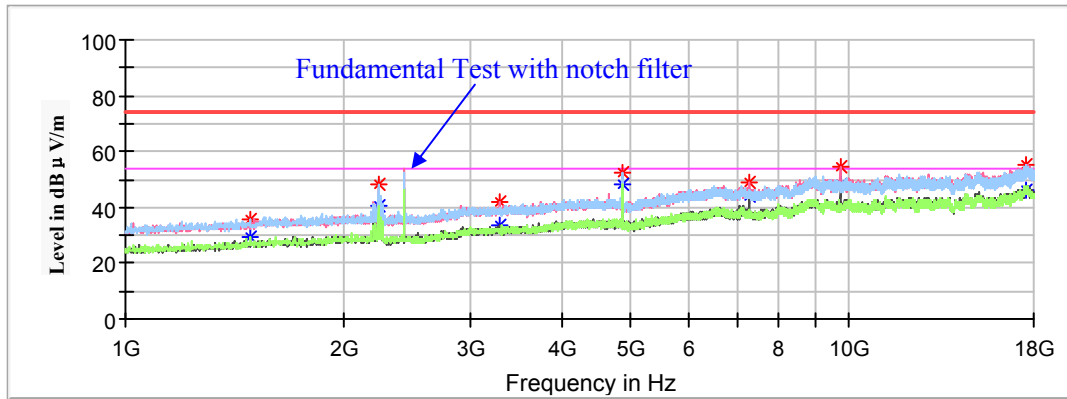
Full Spectrum



| Frequency (MHz) | Corrected Amplitude | | Rx Antenna | | Turntable Degree | Corrected Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|---------------------|------------------|-------------|-------------|------------------|-------------------------|----------------|-------------|
| | MaxPeak (dBµV/m) | Average (dBµV/m) | Height (cm) | Polar (H/V) | | | | |
| 1299.200000 | --- | 26.81 | 150.0 | V | 37.0 | -7.5 | 54.00 | 27.19 |
| 1299.200000 | 36.20 | --- | 150.0 | V | 37.0 | -7.5 | 74.00 | 37.80 |
| 2212.100000 | 57.17 | --- | 200.0 | H | 200.0 | -4.5 | 74.00 | 16.83 |
| 2212.100000 | --- | 49.65 | 200.0 | H | 200.0 | -4.5 | 54.00 | 4.35 |
| 4810.000000 | --- | 47.16 | 200.0 | V | 71.0 | 0.6 | 54.00 | 6.84 |
| 4810.000000 | 54.12 | --- | 200.0 | V | 71.0 | 0.6 | 74.00 | 19.88 |
| 7215.000000 | --- | 45.72 | 200.0 | V | 71.0 | 5.3 | 54.00 | 8.28 |
| 7215.000000 | 53.02 | --- | 200.0 | V | 71.0 | 5.3 | 74.00 | 20.98 |
| 9620.700000 | --- | 48.25 | 200.0 | V | 309.0 | 9.0 | 54.00 | 5.75 |
| 9620.700000 | 53.94 | --- | 200.0 | V | 309.0 | 9.0 | 74.00 | 20.06 |
| 17546.100000 | --- | 46.22 | 200.0 | H | 338.0 | 14.3 | 54.00 | 7.78 |
| 17546.100000 | 55.34 | --- | 200.0 | H | 338.0 | 14.3 | 74.00 | 18.66 |

Middle Channel: 2428MHz

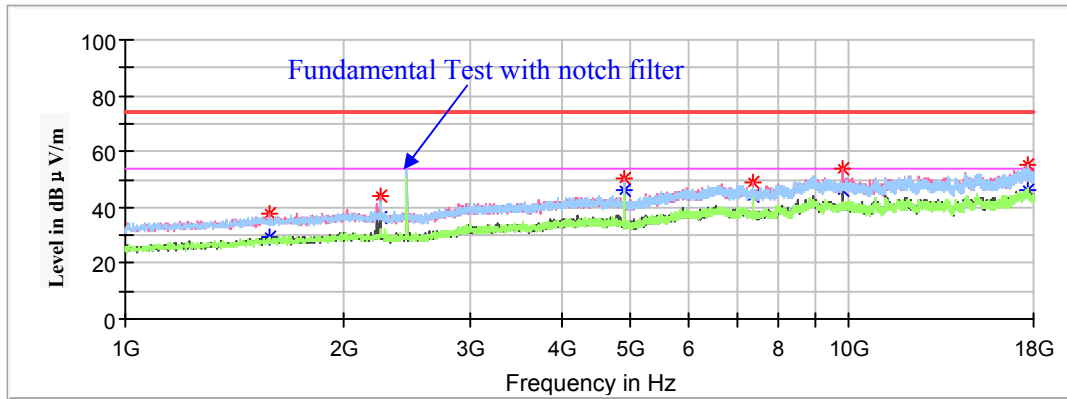
Full Spectrum



| Frequency (MHz) | Corrected Amplitude | | Rx Antenna | | Turntable Degree | Corrected Factor (dB/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------------------|------------------|-------------|-------------|------------------|-------------------------|----------------|-------------|
| | MaxPeak (dBμV/m) | Average (dBμV/m) | Height (cm) | Polar (H/V) | | | | |
| 1484.500000 | --- | 29.12 | 150.0 | H | 212.0 | -6.6 | 54.00 | 24.88 |
| 1484.500000 | 35.96 | --- | 150.0 | H | 212.0 | -6.6 | 74.00 | 38.04 |
| 2234.200000 | --- | 40.90 | 150.0 | H | 276.0 | -4.5 | 54.00 | 13.10 |
| 2234.200000 | 48.03 | --- | 150.0 | H | 276.0 | -4.5 | 74.00 | 25.97 |
| 3298.400000 | --- | 33.28 | 150.0 | V | 2.0 | -1.8 | 54.00 | 20.72 |
| 3298.400000 | 41.63 | --- | 150.0 | V | 2.0 | -1.8 | 74.00 | 32.37 |
| 4856.000000 | 52.47 | --- | 200.0 | H | 354.0 | 0.5 | 74.00 | 21.53 |
| 4856.000000 | --- | 48.55 | 200.0 | H | 354.0 | 0.5 | 54.00 | 5.45 |
| 7284.000000 | --- | 43.76 | 150.0 | V | 248.0 | 5.2 | 54.00 | 10.24 |
| 7284.000000 | 48.99 | --- | 150.0 | V | 248.0 | 5.2 | 74.00 | 25.01 |
| 9710.800000 | 54.31 | --- | 200.0 | V | 353.0 | 9.0 | 74.00 | 19.69 |
| 9710.800000 | --- | 48.18 | 200.0 | V | 353.0 | 9.0 | 54.00 | 5.82 |

High Channel: 2450MHz

Full Spectrum

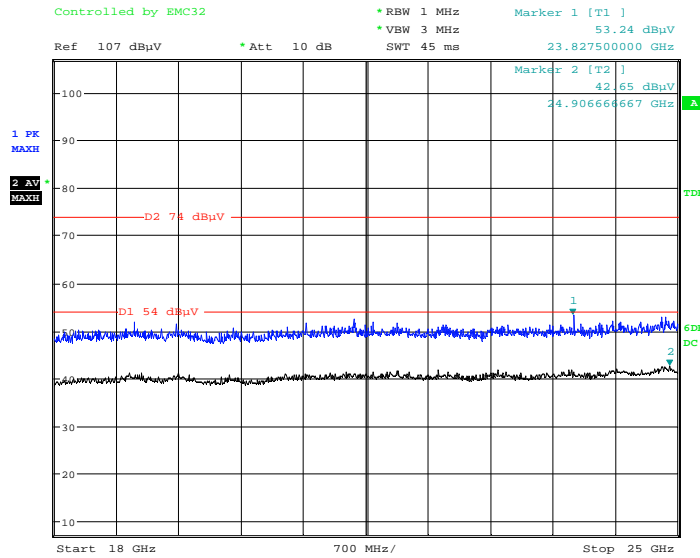


| Frequency (MHz) | Corrected Amplitude | | Rx Antenna | | Turntable Degree | Corrected Factor (dB/m) | Limit (dBμV/m) | Margin (dB) |
|-----------------|---------------------|------------------|-------------|-------------|------------------|-------------------------|----------------|-------------|
| | MaxPeak (dBμV/m) | Average (dBμV/m) | Height (cm) | Polar (H/V) | | | | |
| 1584.800000 | --- | 29.67 | 200.0 | H | 26.0 | -6.2 | 54.00 | 24.33 |
| 1584.800000 | 37.58 | --- | 200.0 | H | 26.0 | -6.2 | 74.00 | 36.42 |
| 2256.300000 | --- | 36.28 | 200.0 | V | 197.0 | -4.4 | 54.00 | 17.72 |
| 2256.300000 | 43.82 | --- | 200.0 | V | 197.0 | -4.4 | 74.00 | 30.18 |
| 4900.000000 | 50.24 | --- | 150.0 | V | 304.0 | 0.4 | 74.00 | 23.76 |
| 4900.000000 | --- | 46.10 | 150.0 | V | 304.0 | 0.4 | 54.00 | 7.90 |
| 7350.000000 | 48.72 | --- | 150.0 | V | 258.0 | 5.1 | 74.00 | 25.28 |
| 7350.000000 | --- | 44.23 | 150.0 | V | 258.0 | 5.1 | 54.00 | 9.77 |
| 9799.200000 | --- | 46.28 | 200.0 | V | 352.0 | 8.9 | 54.00 | 7.72 |
| 9799.200000 | 53.98 | --- | 200.0 | V | 352.0 | 8.9 | 74.00 | 20.02 |
| 17654.900000 | 55.32 | --- | 150.0 | H | 331.0 | 14.1 | 74.00 | 18.68 |
| 17654.900000 | --- | 46.01 | 150.0 | H | 331.0 | 14.1 | 54.00 | 7.99 |

18GHz-25GHz:

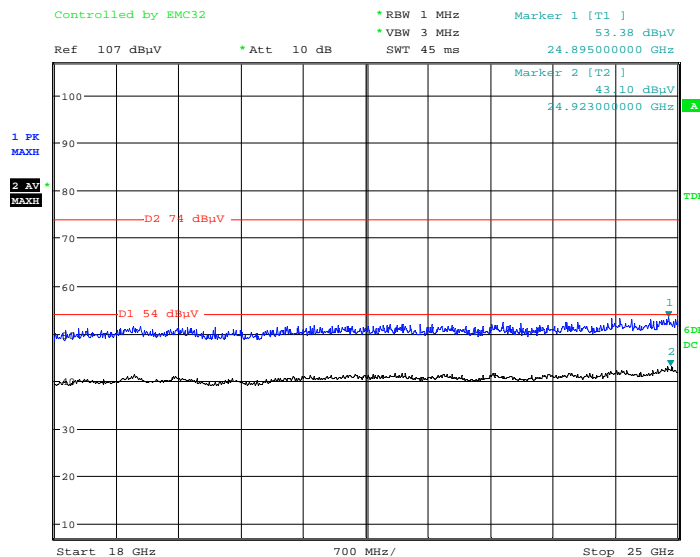
Pre-Scan with low, middle and high channels in the X,Y and Z axes of orientation, the worst case low channel in X-axis of orientation was recorded

Horizontal



Date: 24.MAY.2021 21:06:10

Vertical



Date: 24.MAY.2021 21:12:51

Fundamental Test & Restricted Bands Emissions:

Pre-Scan in the X,Y and Z axes of orientation, the worst case in X-axis of orientation was recorded

Note:

1. Corrected Factor = Antenna factor (RX) + Cable Loss – Amplifier Factor

Corrected Amplitude = Corrected Factor + Reading

Margin = Limit - Corrected. Amplitude

| Frequency (MHz) | Corrected Amplitude | | Rx Antenna | | Turntable Degree | Corrected Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------------|---------------------|------------------|-------------|-------------|------------------|-------------------------|----------------|-------------|
| | MaxPeak (dBµV/m) | Average (dBµV/m) | Height (cm) | Polar (H/V) | | | | |
| Low Channel: 2405MHz | | | | | | | | |
| 2390.00 | --- | 52.56 | 150.0 | V | 1.0 | 3.8 | 54.00 | 1.44 |
| 2390.00 | 65.70 | --- | 150.0 | V | 1.0 | 3.8 | 74.00 | 8.30 |
| High Channel: 2450MHz | | | | | | | | |
| 2483.50 | 64.92 | --- | 200.0 | V | 2.0 | 4.1 | 74.00 | 9.08 |
| 2483.50 | --- | 51.28 | 200.0 | V | 2.0 | 4.1 | 54.00 | 2.72 |

Declarations

1: BACL is not responsible for the authenticity of any test data provided by the applicant. Data included from the applicant that may affect test results are marked with an asterisk '*'. Customer model name, addresses, names, trademarks etc. are not considered data.

2: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

3: Otherwise required by the applicant or Product Regulations, Decision Rule in this report did not consider the uncertainty.

4: The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.

5: This report cannot be reproduced except in full, without prior written approval of the Company.

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