

TEST REPORT

Report No.: 8132EU012104W

Applicant: Shenzhen Mofhie Wireless Charging Technology Co., LTD

Address: 1202, Building 4, Bangyan Green Valley, No. 98, Zhihe Road, Yuanshan, Longgang District, Shenzhen, Guangdong, China

Product Name: FindTag FT1

Model No.: FT1

Trademark: N/A

FCC ID: 2BCZZ-FT1

Test Standard(s): 47 CFR Part 15 Subpart C

Date of Receipt: Sep. 23, 2023

Test Date: Sep. 23, 2023 – Nov. 03, 2023

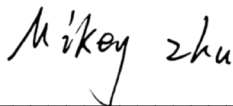
Date of Issue: Nov. 23, 2023

ISSUED BY:

SHENZHEN EU TESTING LABORATORY LIMITED



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2 General Information

2.1 Applicant Information

| | |
|-----------|---|
| Applicant | Shenzhen Mofhie Wireless Charging Technology Co., LTD |
| Address | 1202, Building 4, Bangyan Green Valley, No. 98, Zhihe Road, Yuanshan, Longgang District, Shenzhen, GuangDong, China |

2.2 Manufacturer Information

| | |
|--------------|---|
| Manufacturer | Shenzhen Mofhie Wireless Charging Technology Co., LTD |
| Address | 1202, Building 4, Bangyan Green Valley, No. 98, Zhihe Road, Yuanshan, Longgang District, Shenzhen, GuangDong, China |

2.3 Factory Information

| | |
|---------|---|
| Factory | Shenzhen Mofhie Wireless Charging Technology Co., LTD |
| Address | 1202, Building 4, Bangyan Green Valley, No. 98, Zhihe Road, Yuanshan, Longgang District, Shenzhen, GuangDong, China |

2.4 General Description of E.U.T.

| | |
|--------------------------------------|--|
| Product Name | FindTag FT1 |
| Model No. Under Test | FT1 |
| List Model No. | N/A |
| Description of Model differentiation | N/A |
| Trade Mark | N/A |
| Rating(s) | DC 3V, 540mAh |
| Product Type | <input type="checkbox"/> Mobile <input checked="" type="checkbox"/> Portable <input type="checkbox"/> Fix Location |
| Test Sample No. | -1/2(Normal Sample), -2/2(Engineering Sample) |
| Hardware Version | N/A |
| Software Version | N/A |
| Remark | N/A |

2.5 Technical Information of E.U.T.

| | |
|-----------------|----------------------|
| Technology Used | Bluetooth V5.3 (BLE) |
|-----------------|----------------------|

The requirement for the following technical information of the EUT was tested in this report:

| | |
|---------------------|---|
| Technology | Bluetooth |
| Operation Mode | <input checked="" type="checkbox"/> BLE |
| Modulation Type | GFSK |
| Operating Frequency | 2402-2480MHz |
| Transfer Rate | 1 Mbps, 2 Mbps |
| Number of Channel | 40 |
| Antenna Type | Ceramic Antenna |
| Antenna Gain(Peak) | -4.3 dBi |

All channel was listed on the following table:

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------|-------------|---------|-------------|-----------|-------------|---------|-------------|-----------|-------------|
| 00 | 2402 | 08 | 2418 | 16 | 2434 | 24 | 2450 | 32 | 2466 |
| 01 | 2404 | 09 | 2420 | 17 | 2436 | 25 | 2452 | 33 | 2468 |
| 02 | 2406 | 10 | 2422 | 18 | 2438 | 26 | 2454 | 34 | 2470 |
| 03 | 2408 | 11 | 2424 | 19 | 2440 | 27 | 2456 | 35 | 2472 |
| 04 | 2410 | 12 | 2426 | 20 | 2442 | 28 | 2458 | 36 | 2474 |
| 05 | 2412 | 13 | 2428 | 21 | 2444 | 29 | 2460 | 37 | 2476 |
| 06 | 2414 | 14 | 2430 | 22 | 2446 | 30 | 2462 | 38 | 2478 |
| 07 | 2416 | 15 | 2432 | 23 | 2448 | 31 | 2464 | 39 | 2480 |

3 Test Summary

3.1 Test Standard

The tests were performed according to following standards:

| No. | Identity | Document Title |
|-----|--|--|
| 1 | 47 CFR Part 15, Subpart C | Intentional radiators of radio frequency equipment |
| 2 | ANSI C63.10-2020 | American National Standard for Testing Unlicensed Wireless Devices |
| 3 | KDB 558074 D01 15.247 Meas Guidance v05r02 | Guidance for compliance measurements on digital transmission system, frequency hopping spread spectrum system, and hybrid system devices operating under section 15.247 of the FCC rules |

Remark:

Maintenance of compliance is the responsibility of the manufacturer. Any modification of the product maybe which result in lowering the emission/immunity should be checked to ensure compliance has been maintained.

3.2 Test Verdict

| No. | Description | FCC Part No. | Channel | Verdict | Remark |
|-----|--|---------------------|-----------------|---------|-------------------|
| 1 | Antenna Requirement | 15.203 | N/A | Pass | Note ¹ |
| 2 | Conducted Emission at AC Power Line | 15.207 | Low/Middle/High | N/A | -- |
| 3 | Occupied Bandwidth | 15.247(a)(2) | Low/Middle/High | Pass | -- |
| 4 | Maximum Conducted Output Power | 15.247(b)(3) | Low/Middle/High | Pass | -- |
| 5 | Power spectral density (PSD) | 15.247(e) | Low/Middle/High | Pass | -- |
| 6 | Emission in non-restricted frequency bands (Conducted) | 15.247(d) | Low/Middle/High | Pass | -- |
| 7 | Band Edge Emissions (Restricted frequency bands) | 15.209 15.247(d) | Low/High | Pass | -- |
| 8 | Radiated Spurious Emission | 15.209 15.247(d) | Low/Middle/High | Pass | -- |

3.3 Test Laboratory

| | |
|-------------------------------|---|
| Test Laboratory | Shenzhen EU Testing Laboratory Limited |
| Address | 101, Bldg. B1, Fuqiao Fourth Area, Qiaotou Community, Fuhai Subdistrict, Baoan District, Shenzhen, Guangdong, China |
| Designation Number | CN1368 |
| Test Firm Registration Number | 952583 |

4 Test Configuration

4.1 Test Environment

During the measurement, the normal environmental conditions were within the listed ranges:

| | | |
|----------------------------|-------------------------|----------------|
| Relative Humidity | 40% to 60% | |
| Atmospheric Pressure | 90 kPa to 102 kPa | |
| Temperature | NT (Normal Temperature) | +15°C to +35°C |
| Working Voltage of the EUT | NV (Normal Voltage) | DC 3V |

4.2 Test Equipment

| Conducted Emission at AC power line | | | | | |
|--------------------------------------|-----------------|----------|-----------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | EE-004 | 2023/01/10 | 2024/01/09 |
| EMI Test Receiver | Rohde & Schwarz | ESCI | EE-005 | 2023/01/10 | 2024/01/09 |
| Test Software | Farad | EZ-EMC | EE-014 | N.C.R | N.C.R |

| Radiated Emission and RF Test | | | | | |
|---------------------------------------|-----------------|--------------|-----------|------------|--------------|
| Equipment | Manufacturer | Model No | Serial No | Cal Date | Cal Due Date |
| EMI Test Receiver | ROHDE & SCHWARZ | ESPI | EE-006 | 2023/01/10 | 2024/01/09 |
| Bilog Broadband Antenna | SCHWARZBECK | VULB 9163 | EE-007 | 2023/01/14 | 2026/01/09 |
| Double Ridged Horn Antenna | A-INFOMW | LB-10180-NF | EE-008 | 2023/01/12 | 2026/01/09 |
| Pre-amplifier | Agilent | 8447D | EE-009 | 2023/01/10 | 2024/01/09 |
| Pre-amplifier | Agilent | 8449B | EE-010 | 2023/01/10 | 2024/01/09 |
| MXA Signal Analyzer | Agilent | N9020A | EE-011 | 2023/01/10 | 2024/01/09 |
| MXG RF Vector Signal Generator | Agilent | N5182A | EE-012 | 2023/01/10 | 1 Year |
| Test Software | Farad | EZ-EMC | EE-015 | N.C.R | N.C.R |
| MIMO Power Measurement Module | TSTPASS | TSPS 2023R | EE-016 | 2023/05/17 | 2024/05/16 |
| RF Test Software | TSTPASS | TS32893 V2.0 | EE-017 | N.C.R | N.C.R |
| Wideband Radio Communication Tester | ROHDE & SCHWARZ | CMW500 | EE-402 | 2023/02/16 | 2024/02/15 |
| Loop Antenna | TESEQ | HLA6121 | EE-403 | 2023/02/16 | 2024/02/15 |
| MXG RF Analog Signal Generator | Agilent | N5181A | EE-406 | 2023/02/16 | 2024/02/15 |
| Constant Temperature Humidity Chamber | Guangxin | GXP-401 | ES-002 | 2023/07/31 | 2024/07/30 |

4.3 Description of Support Unit

| No. | Title | Manufacturer | Model No. | Serial No. |
|-----|--------------|--------------|---------------|------------|
| 1 | Mobile phone | Apple | iphone xs max | -- |

4.4 Test Mode

| No. | Test Modes | Description |
|-----|-------------------------|---|
| TM1 | TX-GFSK (1 Mbps Low) | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |
| TM2 | TX-GFSK (1 Mbps Middle) | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| TM3 | TX-GFSK (1 Mbps High) | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| TM4 | TX-GFSK (2 Mbps Low) | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |
| TM5 | TX-GFSK (2 Mbps Middle) | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |
| TM6 | TX-GFSK (2 Mbps High) | Keep the EUT in continuously transmitting mode (hopping) with GFSK modulation. |

4.5 Measurement Uncertainty

The following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

| Test Item | Measurement Uncertainty |
|-----------------------------------|-------------------------|
| Conducted Emission | 2.64 dB |
| Occupied Channel Bandwidth | 2.8 % |
| RF output power, conducted | 0.68 dB |
| Power Spectral Density, conducted | 1.37 dB |
| Unwanted Emissions, conducted | 1.84 dB |
| All emissions, radiated | 5.11 dB |
| Temperature | 0.8°C |
| Humidity | 4% |

4.6 Deviation from Standards

None.

4.7 Abnormalities from Standard Condition

None.

5 Test Items

5.1 Antenna requirement

5.1.1 Test Requirement

| | |
|------------------|---|
| Test Requirement | <p>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. This requirement does not apply to carrier current devices or to devices operated under the provisions of § 15.211, § 15.213, § 15.217, § 15.219, or § 15.221. Further, this requirement does not apply to intentional radiators that must be professionally installed, such as perimeter protection systems and some field disturbance sensors, or to other intentional radiators which, in accordance with § 15.31(d), must be measured at the installation site. However, the installer shall be responsible for ensuring that the proper antenna is employed so that the limits in this part are not exceeded.</p> <p>If directional gain of transmitting antennas is greater than 6 dBi, the power shall be reduced by the same level in dB comparing to gain minus 6 dBi. For the fixed point-to-point operation, the power shall be reduced by one dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. 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 FCC rule.</p> |
|------------------|---|

5.1.2 Antenna Anti-Replacement Construction

The Antenna Anti-Replacement as following method:

| Protected Method | Description |
|---|--|
| The antenna is embedded in the product. | An embedded-in antenna design is used. |

| Reference Documents | Item |
|---------------------|--|
| Photo | Please refer to the EUT Photo documents. |

5.1.3 Antenna Gain

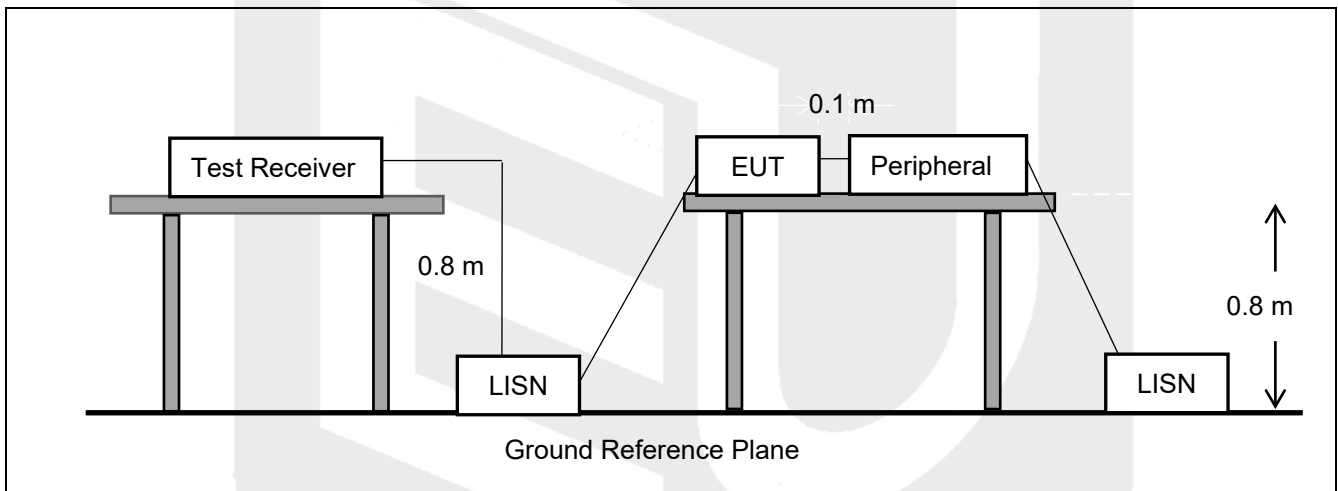
The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.

5.2 Conducted Emission at AC Power Line

5.2.1 Test Requirement

| | | | |
|-------------------|--|------------------------------|-----------|
| Test Requirement: | Except as shown in paragraphs (b) and (c) of this section, for an intentional radiator 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, as measured using a 50 μ H/50 ohms line impedance stabilization network (LISN). | | |
| Test Limit | Frequency of emission (MHz) | Conducted limit (dB μ V) | |
| | | 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. | | |
| Test Method | ANSI C63.10-2020 section 6.2 | | |

5.2.2 Test Setup Diagram



5.2.3 Test Procedure

The EUT is put on the plane 0.8 m high above the ground by insulating support and connected to the AC mains through Line Impedance Stability Network (L.I.S.N). This provided a 50ohm coupling impedance for the tested equipment. Both sides of AC line are investigated to find out the maximum conducted emission according to the test standard regulations during conducted emission measurement.

The bandwidth of the field strength meter (R&S Test Receiver ESCI) is set at 9kHz in 150kHz~30MHz.

The maximum conducted interference is searched using Peak (PK), if the emission levels more than the AV and QP limits, and that have narrow margins from the AV and QP limits will be re-measured with AV and QP detectors. Tests for both L phase and N phase lines of the power mains connected to the EUT are performed. Refer to recorded points and plots below.

Devices subject to Part 15 must be tested for all available U.S. voltages and frequencies (such as a nominal 120 VAC, 50/60 Hz and 240 VAC, 50/60 Hz) for which the device is capable of operation. A device rated for 50/60 Hz operation need not be tested at both frequencies provided the radiated and line conducted emissions are the same at both frequencies.

5.2.4 Test Data

Not applicable.

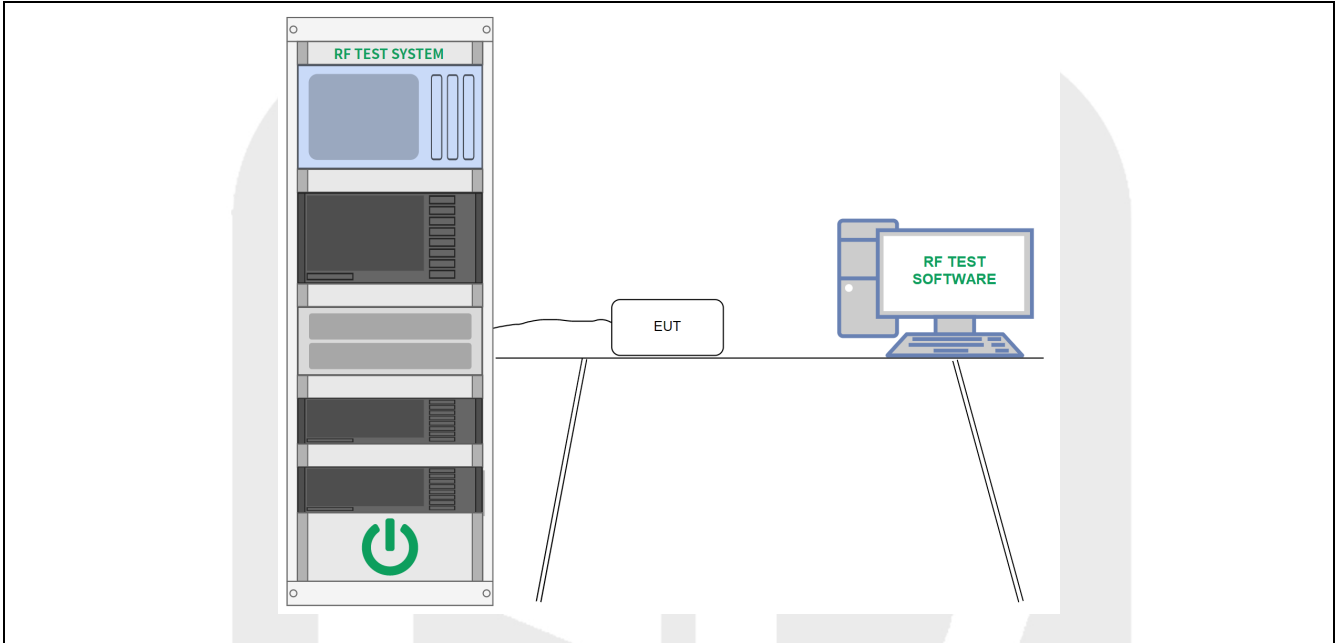
The EUT can't be connected to AC power line, so there is no need to conduct this test item.

5.3 Occupied Bandwidth

5.3.1 Test Requirement

| | |
|------------------|--|
| Test Requirement | Systems using digital modulation techniques may operate in the 902-928 MHz, and 2400-2483.5 MHz bands. The minimum 6 dB bandwidth shall be at least 500 kHz. |
| Test Method | DTS bandwidth |

5.3.2 Test Setup Diagram



5.3.3 Test Procedure

- Set RBW = 100 kHz.
- Set the VBW $\geq [3 \times \text{RBW}]$.
- Detector = peak.
- Trace mode = max hold.
- Sweep = auto couple.
- Allow the trace to stabilize.
- Measure the maximum width of the emission that is constrained by the frequencies associated with the two outermost amplitude points (upper and lower frequencies) that are attenuated by 6 dB relative to the maximum level measured in the fundamental emission.

5.3.4 Test Data

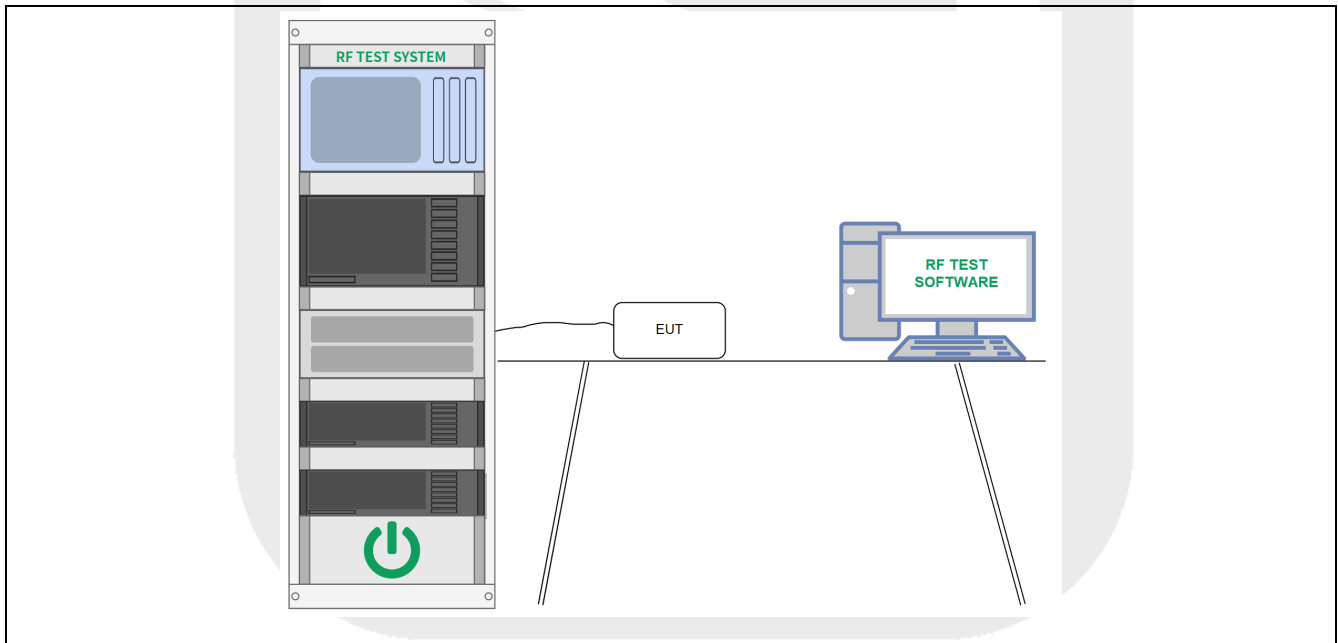
Please refer to Annex A for details.

5.4 Maximum Conducted Output Power

5.4.1 Test Requirement

| | |
|--------------------------|---|
| <p>Test Requirement:</p> | <p>For systems using digital modulation in the 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz bands: 1 Watt. As an alternative to a peak power measurement, compliance with the one Watt limit can be based on a measurement of the maximum conducted output power. Maximum Conducted Output Power is defined as the total transmit power delivered to all antennas and antenna elements averaged across all symbols in the signaling alphabet when the transmitter is operating at its maximum power control level. Power must be summed across all antennas and antenna elements. The average must not include any time intervals during which the transmitter is off or is transmitting at a reduced power level. If multiple modes of operation are possible (e.g., alternative modulation methods), the maximum conducted output power is the highest total transmit power occurring in any mode.</p> |
| <p>Test Method:</p> | <p>Maximum peak conducted output power</p> |

5.4.2 Test Setup Diagram



5.4.3 Test Procedure

a) Maximum peak conducted output power

This procedure shall be used when the measurement instrument has available a resolution bandwidth that is greater than the DTS bandwidth.

Set the RBW \geq DTS bandwidth.

Set VBW $\geq 3 \times$ RBW.

Set span $\geq 3 \times$ RBW

Sweep time = auto couple.

Detector = peak.

Trace mode = max hold.

Allow trace to fully stabilize.

Use peak marker function to determine the peak amplitude level.

b) Measurements of duty cycle

The zero-span mode on a spectrum analyzer or EMI receiver if the response time and spacing between bins on the sweep are sufficient to permit accurate measurements of the on and off times of the transmitted signal.

Set the center frequency of the instrument to the center frequency of the transmission.

Set RBW \geq OBW if possible; otherwise, set RBW to the largest available value.

Set VBW \geq RBW. Set detector = peak or average.

The zero-span measurement method shall not be used unless both RBW and VBW are $> 50/T$ and the number of sweep points across duration T exceeds 100. (For example, if VBW and/or RBW are limited to 3 MHz, then the zero-span method of measuring duty cycle shall not be used if $T \leq 16.7$ microseconds.)

5.4.4 Test Data

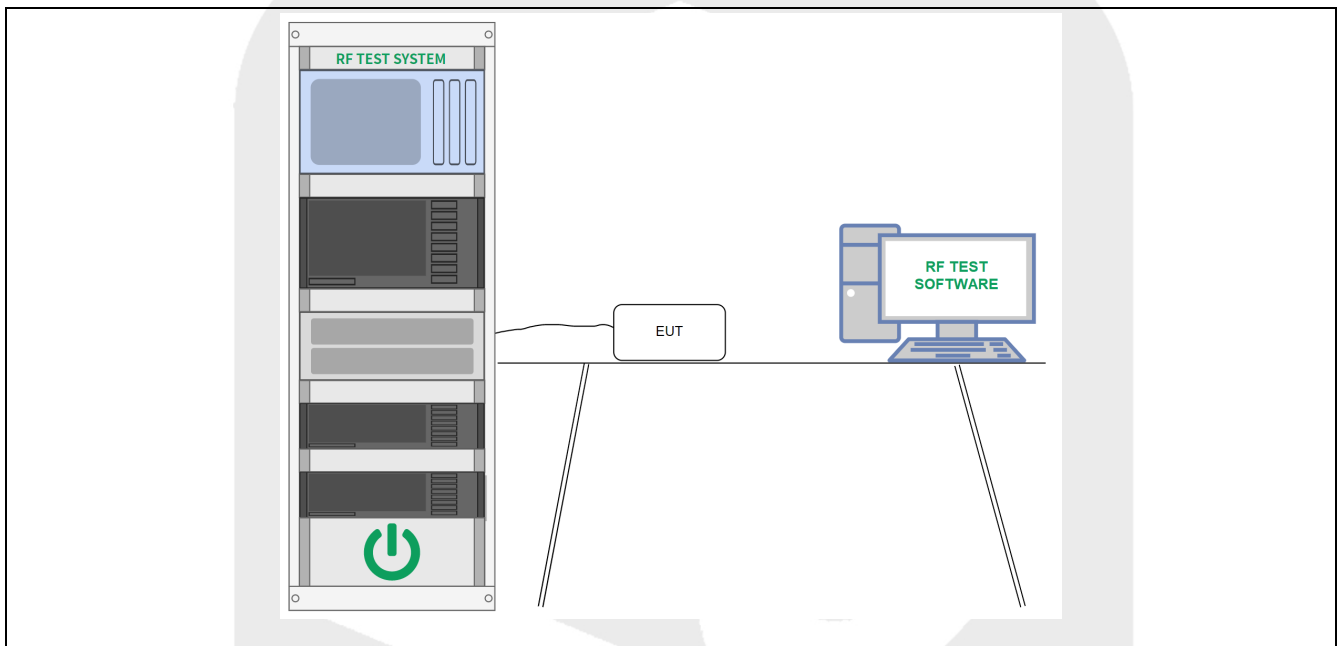
Please refer to Annex A for details.

5.5 Power Spectral Density

5.5.1 Test Requirement

| | |
|-------------------|--|
| Test Requirement: | For digitally modulated systems, the power spectral density conducted from the intentional radiator to the antenna shall not be greater than 8 dBm in any 3 kHz band during any time interval of continuous transmission. This power spectral density shall be determined in accordance with the provisions of paragraph (b) of this section. The same method of determining the conducted output power shall be used to determine the power spectral density. |
| Test Method: | Maximum power spectral density level in the fundamental emission |

5.5.2 Test Setup Diagram



5.5.3 Test Procedure

Set analyzer center frequency to DTS channel center frequency.
 Set the span to 1.5 times the DTS bandwidth.
 Set the RBW to: $3 \text{ kHz} \leq \text{RBW} \leq 100 \text{ kHz}$.
 Set the VBW $\geq 3 \text{ RBW}$.
 Detector = peak.
 Sweep time = auto couple.
 Trace mode = max hold.
 Allow trace to fully stabilize.
 Use the peak marker function to determine the maximum amplitude level within the RBW.
 If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

5.5.4 Test Data

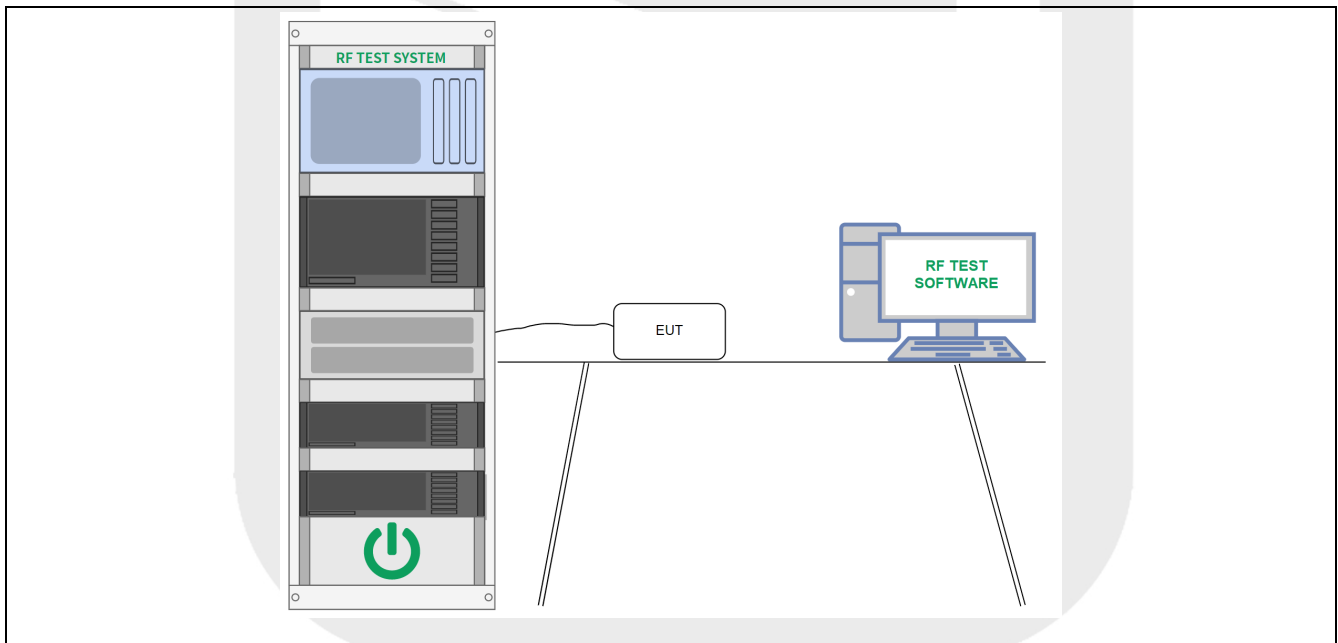
Please refer to Annex A for details.

5.6 Emissions in Non-restricted Frequency Bands (Conducted)

5.6.1 Test Requirement

| | |
|--------------------------|---|
| <p>Test Requirement:</p> | <p>In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in § 15.209(a) is not required.</p> |
| <p>Test Method:</p> | <p>Emissions in nonrestricted frequency bands</p> |

5.6.2 Test Setup Diagram



5.6.3 Test Procedure

The following procedures may be used to determine the peak or average field strength or power of an unwanted emission that is within 2 MHz of the authorized band edge. If a peak detector is utilized, use the procedure described in 13.2.1. Use the procedure described in 13.2.2 when using an average detector and the EUT can be configured to transmit continuously (i.e., duty cycle $\geq 98\%$). Use the procedure described in 13.2.3 when using an average detector and the EUT cannot be configured to transmit continuously but the duty cycle is constant (i.e., duty cycle variations are less than ± 2 percent). Use the procedure described in 13.2.4 when using an average detector for those cases where the EUT cannot be configured to transmit continuously and the duty cycle is not constant (duty cycle variations equal or exceed 2 percent).

When using a peak detector to measure unwanted emissions at or near the band edge (within 2 MHz of the authorized band), the following integration procedure can be used.

Set instrument center frequency to the frequency of the emission to be measured (must be within 2 MHz of the authorized band edge).

Set span to 2 MHz

RBW = 100 kHz.

VBW $\geq 3 \times$ RBW.

Detector = peak.

Sweep time = auto.

Trace mode = max hold.

Allow sweep to continue until the trace stabilizes (required measurement time may increase for low duty cycle applications)

Compute the power by integrating the spectrum over 1 MHz using the analyzer's band power measurement function with band limits set equal to the emission frequency ($f_{\text{emission}} \pm 0.5$ MHz). If the instrument does not have a band power function, then sum the amplitude levels (in power units) at 100 kHz intervals extending across the 1 MHz spectrum defined by $f_{\text{emission}} \pm 0.5$ MHz.

5.6.4 Test Data

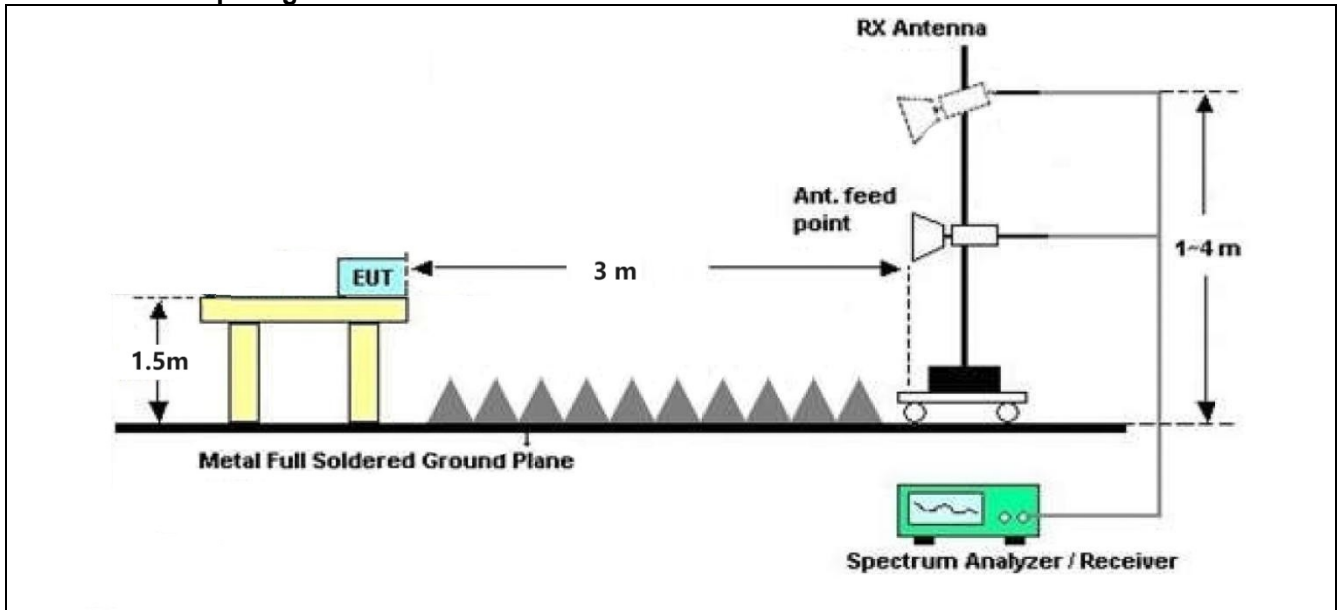
Please refer to Annex A for details.

5.7 Band Edge Emissions (Restricted frequency bands)

5.7.1 Test Requirement

| | | | | |
|--|---|-----------------------------------|-------------------------------|-----------|
| Test Requirement: | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). | | | |
| Test Method: | Radiated emissions tests | | | |
| Test Limit: | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) | |
| | 0.009-0.490 | 2400/F(kHz) | 300 | |
| | 0.490-1.705 | 24000/F(kHz) | 30 | |
| | 1.705-30.0 | 30 | 30 | |
| | 30-88 | 100 ** | 3 | |
| | 88-216 | 150 ** | 3 | |
| | 216-960 | 200 ** | 3 | |
| | Above 960 | 500 | 3 | |
| | ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. | | | |
| | Restricted frequency bands: | | | |
| | MHz | MHz | MHz | GHz |
| | 0.090-0.110 | 16.42-16.423 | 399.9-410 | 4.5-5.15 |
| | 0.495-0.505 | 16.69475-16.69525 | 608-614 | 5.35-5.46 |
| | 2.1735-2.1905 | 16.80425-16.80475 | 960-1240 | 7.25-7.75 |
| | 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 | |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 | |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 | |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 | |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 | |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 | |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 | |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 | |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 | |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 | |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 | |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | | |
| 13.36-13.41 | | | | |
| Note: | | | | |
| 1) Field Strength (dBµV/m) = 20*log[Field Strength (µV/m)]. | | | | |
| 2) In the emission tables above, the tighter limit applies at the band edges. | | | | |
| 3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. | | | | |
| 4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). | | | | |

5.7.2 Test Setup Diagram



5.7.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power. Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

RBW = 1 MHz for $f \geq 1$ GHz, 100 kHz for $f < 1$ GHz

VBW \geq RBW

Sweep = auto

Detector function = peak

Trace = max hold.

5.7.4 Test Data

PASS.

Please refer to the following pages.

Band-edge Emissions (Restricted frequency bands):

| Test Mode: GFSK(1Mbps) | | | | | CH Low: 2402 MHz | | | |
|------------------------|-----------------|----------------|---------------|----------------|------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| | | | | level (dBuV/m) | | | | |
| H | 2310.00 | 45.40 | -2.81 | 42.59 | 74.00 | -31.41 | PK | PASS |
| H | 2390.00 | 48.47 | -2.69 | 45.78 | 74.00 | -28.22 | PK | PASS |
| H | **2400.00 | 64.82 | -2.68 | 62.14 | 74.00 | -11.86 | PK | PASS |
| V | 2310.00 | 42.98 | -2.81 | 40.17 | 74.00 | -33.83 | PK | PASS |
| V | 2390.00 | 45.92 | -2.69 | 43.23 | 74.00 | -30.77 | PK | PASS |
| V | **2400.00 | 61.94 | -2.68 | 59.26 | 74.00 | -14.74 | PK | PASS |
| H | 2310.00 | 31.97 | -2.81 | 29.16 | 54.00 | -24.84 | AV | PASS |
| H | 2390.00 | 37.55 | -2.69 | 34.86 | 54.00 | -19.14 | AV | PASS |
| H | **2400.00 | 46.68 | -2.68 | 44.00 | 54.00 | -10.00 | AV | PASS |
| V | 2310.00 | 33.89 | -2.81 | 31.08 | 54.00 | -22.92 | AV | PASS |
| V | 2390.00 | 37.61 | -2.69 | 34.92 | 54.00 | -19.08 | AV | PASS |
| V | **2400.00 | 48.13 | -2.68 | 45.45 | 54.00 | -8.55 | AV | PASS |

| Test Mode: GFSK(1Mbps) | | | | | CH High: 2480 MHz | | | |
|------------------------|-----------------|----------------|---------------|----------------|-------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| | | | | level (dBuV/m) | | | | |
| H | **2483.50 | 46.64 | -2.56 | 44.08 | 74.00 | -29.92 | PK | PASS |
| H | 2500.00 | 49.04 | -2.54 | 46.50 | 74.00 | -27.50 | PK | PASS |
| V | **2483.50 | 49.59 | -2.56 | 47.03 | 74.00 | -26.97 | PK | PASS |
| V | 2500.00 | 50.35 | -2.54 | 47.81 | 74.00 | -26.19 | PK | PASS |
| H | **2483.50 | 39.49 | -2.56 | 36.93 | 54.00 | -17.07 | AV | PASS |
| H | 2500.00 | 40.77 | -2.54 | 38.23 | 54.00 | -15.77 | AV | PASS |
| V | **2483.50 | 37.24 | -2.56 | 34.68 | 54.00 | -19.32 | AV | PASS |
| V | 2500.00 | 41.83 | -2.54 | 39.29 | 54.00 | -14.71 | AV | PASS |

1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

Band-edge Emissions (Restricted frequency bands):

| Test Mode: GFSK(2Mbps) | | | | | CH Low: 2402 MHz | | | |
|------------------------|-----------------|----------------|---------------|-------------------------|------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| H | 2310.00 | 43.02 | -2.81 | 40.21 | 74.00 | -33.79 | PK | PASS |
| H | 2390.00 | 48.98 | -2.69 | 46.29 | 74.00 | -27.71 | PK | PASS |
| H | **2400.00 | 61.28 | -2.68 | 58.60 | 74.00 | -15.40 | PK | PASS |
| V | 2310.00 | 44.46 | -2.81 | 41.65 | 74.00 | -32.35 | PK | PASS |
| V | 2390.00 | 49.19 | -2.69 | 46.50 | 74.00 | -27.50 | PK | PASS |
| V | **2400.00 | 64.45 | -2.68 | 61.77 | 74.00 | -12.23 | PK | PASS |
| H | 2310.00 | 34.43 | -2.81 | 31.62 | 54.00 | -22.38 | AV | PASS |
| H | 2390.00 | 38.60 | -2.69 | 35.91 | 54.00 | -18.09 | AV | PASS |
| H | **2400.00 | 46.73 | -2.68 | 44.05 | 54.00 | -9.95 | AV | PASS |
| V | 2310.00 | 32.49 | -2.81 | 29.68 | 54.00 | -24.32 | AV | PASS |
| V | 2390.00 | 34.85 | -2.69 | 32.16 | 54.00 | -21.84 | AV | PASS |
| V | **2400.00 | 48.90 | -2.68 | 46.22 | 54.00 | -7.78 | AV | PASS |

| Test Mode: GFSK(2Mbps) | | | | | CH High: 2480 MHz | | | |
|------------------------|-----------------|----------------|---------------|-------------------------|-------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| H | **2483.50 | 48.24 | -2.56 | 45.68 | 74.00 | -28.32 | PK | PASS |
| H | 2500.00 | 50.63 | -2.54 | 48.09 | 74.00 | -25.91 | PK | PASS |
| V | **2483.50 | 49.45 | -2.56 | 46.89 | 74.00 | -27.11 | PK | PASS |
| V | 2500.00 | 49.68 | -2.54 | 47.14 | 74.00 | -26.86 | PK | PASS |
| H | **2483.50 | 36.93 | -2.56 | 34.37 | 54.00 | -19.63 | AV | PASS |
| H | 2500.00 | 39.73 | -2.54 | 37.19 | 54.00 | -16.81 | AV | PASS |
| V | **2483.50 | 38.04 | -2.56 | 35.48 | 54.00 | -18.52 | AV | PASS |
| V | 2500.00 | 38.79 | -2.54 | 36.25 | 54.00 | -17.75 | AV | PASS |

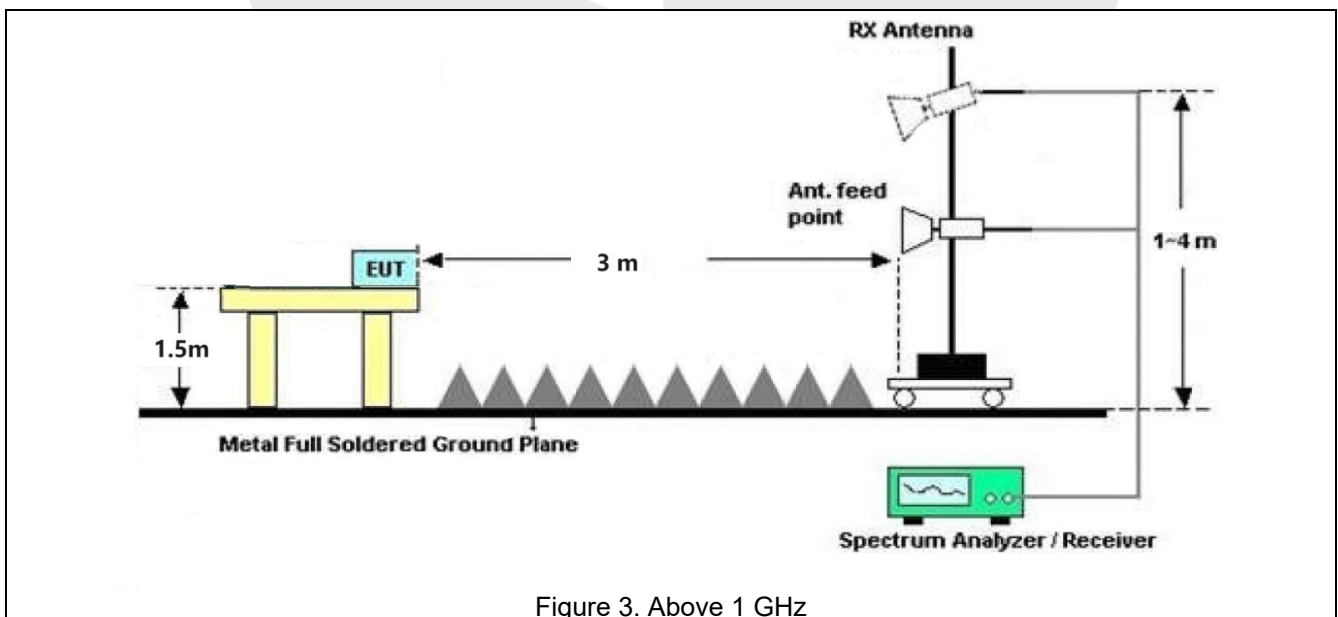
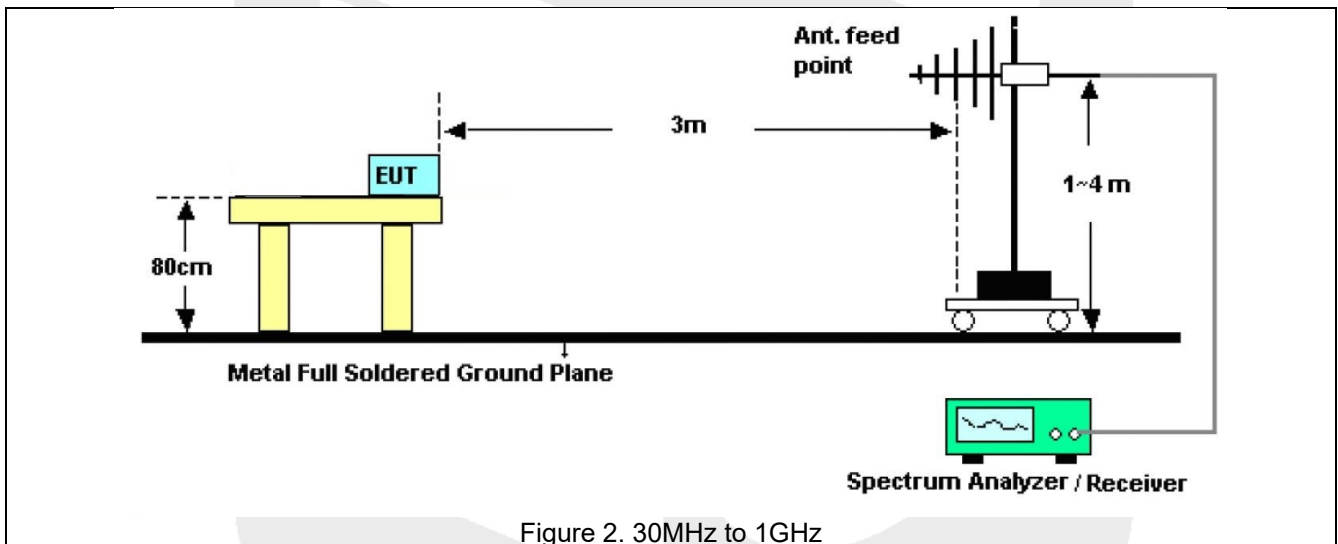
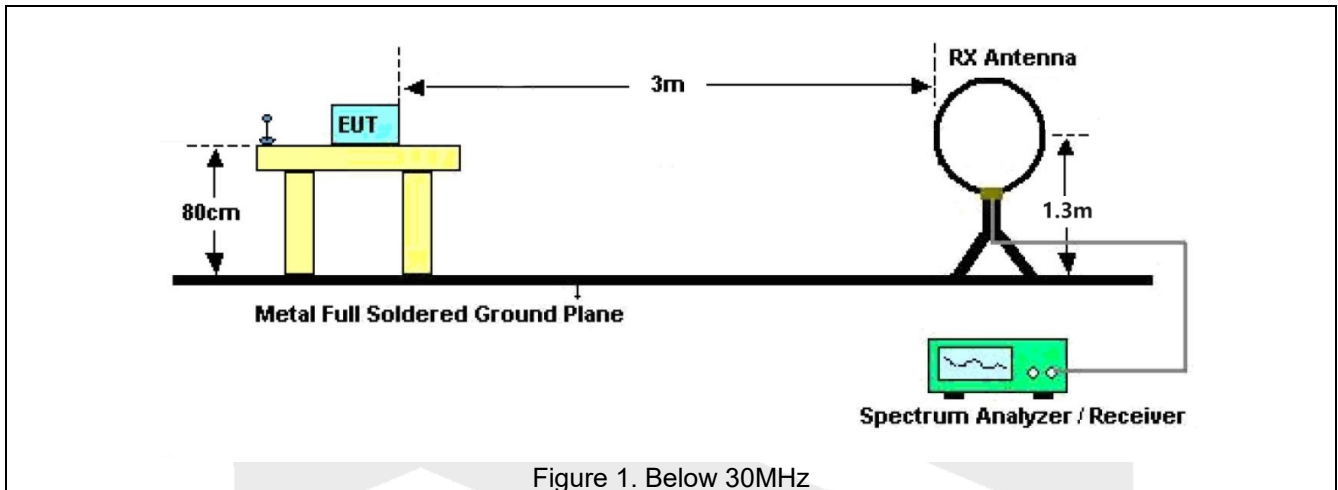
1. Emission Level = Reading + Factor, Margin= Emission Level – Limit.

5.8 Radiated Spurious Emission

5.8.1 Test Requirement

| | | | |
|------------------|--|-----------------------------------|-------------------------------|
| Test Requirement | In addition, radiated emissions which fall in the restricted bands, as defined in § 15.205(a), must also comply with the radiated emission limits specified in § 15.209(a)(see § 15.205(c)). | | |
| Test Limit | Frequency (MHz) | Field strength (microvolts/meter) | Measurement distance (meters) |
| | 0.009-0.490 | 2400/F(kHz) | 300 |
| | 0.490-1.705 | 24000/F(kHz) | 30 |
| | 1.705-30.0 | 30 | 30 |
| | 30-88 | 100 ** | 3 |
| | 88-216 | 150 ** | 3 |
| | 216-960 | 200 ** | 3 |
| | Above 960 | 500 | 3 |
| | ** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806 MHz. However, operation within these frequency bands is permitted under other sections of this part, e.g., §§ 15.231 and 15.241. Note: 1) Field Strength (dB μ V/m) = 20*log[Field Strength (μ V/m)]. 2) In the emission tables above, the tighter limit applies at the band edges. 3) For Above 1000 MHz, the emission limit in this paragraph is based on measurement instrumentation employing an average detector, measurement using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit. 4) For above 1000 MHz, limit field strength of harmonics: 54dBuV/m@3m (AV) and 74dBuV/m@3m (PK). | | |
| Test Method | ANSI C63.10-2020 section 6.6.4 Radiated emissions tests | | |

5.8.2 Test Setup Diagram



5.8.3 Test Procedure

The measurement frequency range is from 9 kHz to the 10th harmonic of the fundamental frequency. The Turn Table is actuated to turn from 0° to 360°, and both horizontal and vertical polarizations of the Test Antenna are used to find the maximum radiated power.

Mid channels on all channel bandwidth verified. Only the worst RB size/offset presented.

The power of the EUT transmitting frequency should be ignored.

All Spurious Emission tests were performed in X, Y, Z axis direction. And only the worst axis test condition was recorded in this test report.

Use the following spectrum analyzer settings:

Span = wide enough to fully capture the emission being measured

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW = 1MHz, VBW = 1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW = 1MHz, VBW = 10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported, Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5.8.4 Test Data

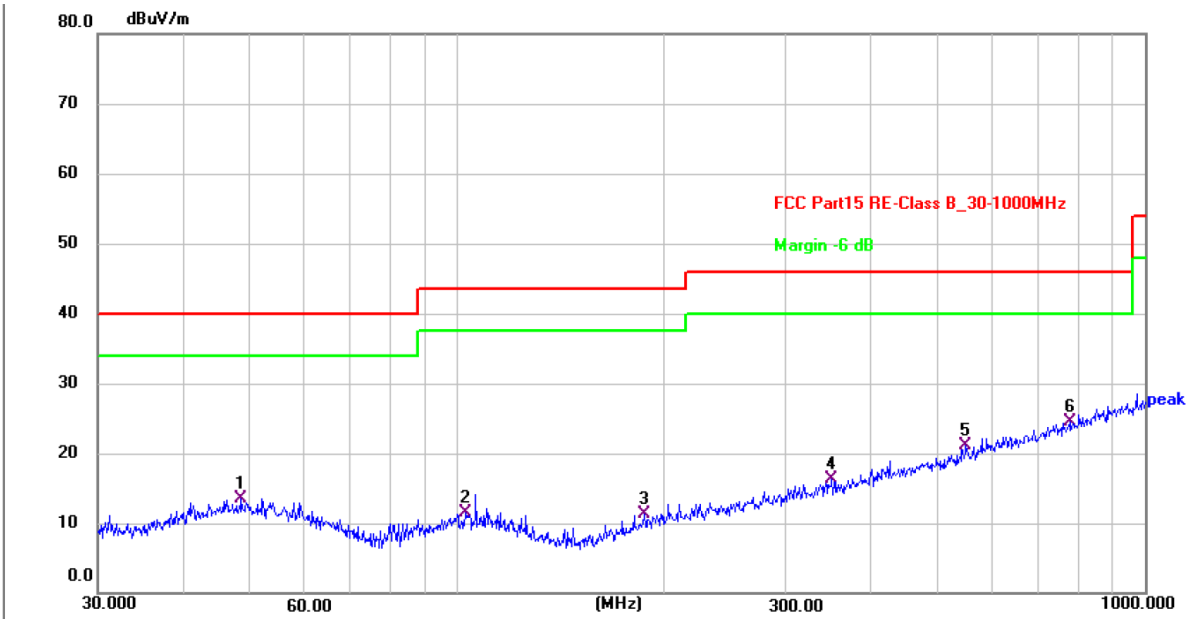
PASS.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

During the test, for 30MHz to 1000MHz, pre-scan the BLE 2M-High channel mode is the worst, only the worst case is recorded in the report.

Radiated Emission Test Data (30-1000MHz)

Test item: 966 Chamber #1 Polarization: Horizontal
 Distance: 3m Test Mode: TM3/ CH High

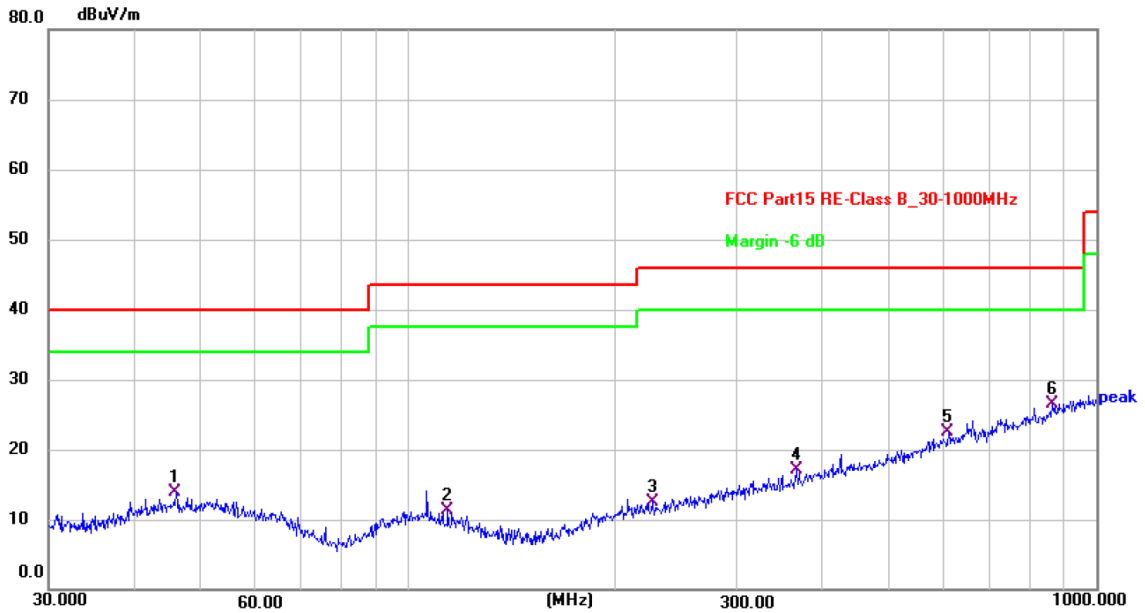


| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 | 48.5015 | 27.07 | -13.66 | 13.41 | 40.00 | -26.59 | QP | P | |
| 2 | 102.7192 | 26.81 | -15.40 | 11.41 | 43.50 | -32.09 | QP | P | |
| 3 | 187.0955 | 26.86 | -15.59 | 11.27 | 43.50 | -32.23 | QP | P | |
| 4 | 350.4766 | 26.89 | -10.65 | 16.24 | 46.00 | -29.76 | QP | P | |
| 5 | 549.0193 | 28.28 | -7.15 | 21.13 | 46.00 | -24.87 | QP | P | |
| 6 * | 776.8777 | 27.31 | -2.90 | 24.41 | 46.00 | -21.59 | QP | P | |

Note: Level = Reading + Factor Margin = Level - Limit

Radiated Emission Test Data (30-1000MHz)

| | | | |
|-------------------|-----------------------|----------------------|---------------------|
| Test item: | 966 Chamber #1 | Polarization: | Vertical |
| Distance: | 3m | Test Mode: | TM3/ CH High |



| No. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Level (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector | P/F | Remark |
|-----|-----------------|----------------|---------------|----------------|----------------|-------------|----------|-----|--------|
| 1 | 46.0162 | 27.51 | -13.70 | 13.81 | 40.00 | -26.19 | QP | P | |
| 2 | 114.1136 | 27.40 | -16.08 | 11.32 | 43.50 | -32.18 | QP | P | |
| 3 | 226.0994 | 26.38 | -13.88 | 12.50 | 46.00 | -33.50 | QP | P | |
| 4 | 366.8231 | 27.54 | -10.37 | 17.17 | 46.00 | -28.83 | QP | P | |
| 5 | 609.9215 | 28.14 | -5.63 | 22.51 | 46.00 | -23.49 | QP | P | |
| 6 * | 863.0561 | 27.81 | -1.38 | 26.43 | 46.00 | -19.57 | QP | P | |

Note: Level = Reading + Factor Margin = Level - Limit

Test Results (1GHz-25GHz)

| Test Mode: GFSK | | | | | CH Low: 2402 MHz | | | |
|-----------------|-----------------|----------------|---------------|----------------|------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission level | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| | | | | (dBuV/m) | | | | |
| V | 4804.48 | 40.84 | 4.68 | 45.52 | 74.00 | -28.48 | PK | PASS |
| V | 7206.24 | 34.05 | 9.84 | 43.89 | 74.00 | -30.12 | PK | PASS |
| V | 9608.04 | 29.84 | 13.17 | 43.01 | 74.00 | -31.00 | PK | PASS |
| V | 12010.61 | * | * | * | 74.00 | * | PK | PASS |
| V | 14412.67 | * | * | * | 74.00 | * | PK | PASS |
| V | 16814.45 | * | * | * | 74.00 | * | PK | PASS |
| H | 4804.63 | 40.59 | 4.68 | 45.27 | 74.00 | -28.73 | PK | PASS |
| H | 7206.05 | 35.27 | 9.84 | 45.11 | 74.00 | -28.90 | PK | PASS |
| H | 9608.30 | 29.60 | 13.17 | 42.77 | 74.00 | -31.23 | PK | PASS |
| H | 12010.19 | * | * | * | 74.00 | * | PK | PASS |
| H | 14412.94 | * | * | * | 74.00 | * | PK | PASS |
| H | 16814.94 | * | * | * | 74.00 | * | PK | PASS |
| V | 4804.53 | 30.22 | 4.68 | 34.90 | 54.00 | -19.11 | AV | PASS |
| V | 7206.58 | 22.72 | 9.84 | 32.56 | 54.00 | -21.44 | AV | PASS |
| V | 9608.44 | 18.68 | 13.17 | 31.85 | 54.00 | -22.15 | AV | PASS |
| V | 12010.31 | * | * | * | 54.00 | * | AV | PASS |
| V | 14412.46 | * | * | * | 54.00 | * | AV | PASS |
| V | 16814.29 | * | * | * | 54.00 | * | AV | PASS |
| H | 4804.63 | 32.15 | 4.68 | 36.83 | 54.00 | -17.17 | AV | PASS |
| H | 7206.05 | 24.61 | 9.84 | 34.45 | 54.00 | -19.55 | AV | PASS |
| H | 9608.30 | 17.37 | 13.17 | 30.54 | 54.00 | -23.47 | AV | PASS |
| H | 12010.19 | * | * | * | 54.00 | * | AV | PASS |
| H | 14412.94 | * | * | * | 54.00 | * | AV | PASS |
| H | 16814.94 | * | * | * | 54.00 | * | AV | PASS |

| Test Mode: GFSK | | | | | CH Middle: 2440 MHz | | | |
|-----------------|-----------------|----------------|---------------|----------------|---------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| | | | | level (dBuV/m) | | | | |
| V | 4880.22 | 42.13 | 4.92 | 47.05 | 74.00 | -26.96 | PK | PASS |
| V | 7320.31 | 33.23 | 9.83 | 43.06 | 74.00 | -30.94 | PK | PASS |
| V | 9760.94 | 28.29 | 13.22 | 41.51 | 74.00 | -32.49 | PK | PASS |
| V | 12200.72 | * | * | * | 74.00 | * | PK | PASS |
| V | 14640.76 | * | * | * | 74.00 | * | PK | PASS |
| V | 17080.55 | * | * | * | 74.00 | * | PK | PASS |
| H | 4880.31 | 42.84 | 4.92 | 47.76 | 74.00 | -26.24 | PK | PASS |
| H | 7320.61 | 34.03 | 9.83 | 43.86 | 74.00 | -30.14 | PK | PASS |
| H | 9760.82 | 29.08 | 13.22 | 42.30 | 74.00 | -31.71 | PK | PASS |
| H | 12200.20 | * | * | * | 74.00 | * | PK | PASS |
| H | 14640.20 | * | * | * | 74.00 | * | PK | PASS |
| H | 17080.97 | * | * | * | 74.00 | * | PK | PASS |
| V | 4880.18 | 31.26 | 4.92 | 36.18 | 54.00 | -17.82 | AV | PASS |
| V | 7320.98 | 24.02 | 9.83 | 33.85 | 54.00 | -20.16 | AV | PASS |
| V | 9760.05 | 18.16 | 13.22 | 31.38 | 54.00 | -22.62 | AV | PASS |
| V | 12200.38 | * | * | * | 54.00 | * | AV | PASS |
| V | 14640.24 | * | * | * | 54.00 | * | AV | PASS |
| V | 17080.26 | * | * | * | 54.00 | * | AV | PASS |
| H | 4880.31 | 31.59 | 4.92 | 36.51 | 54.00 | -17.50 | AV | PASS |
| H | 7320.61 | 22.26 | 9.83 | 32.09 | 54.00 | -21.91 | AV | PASS |
| H | 9760.82 | 19.69 | 13.22 | 32.91 | 54.00 | -21.10 | AV | PASS |
| H | 12200.20 | * | * | * | 54.00 | * | AV | PASS |
| H | 14640.20 | * | * | * | 54.00 | * | AV | PASS |
| H | 17080.97 | * | * | * | 54.00 | * | AV | PASS |

| Test Mode: GFSK | | | | | CH High: 2480 MHz | | | |
|-----------------|-----------------|----------------|---------------|----------------|-------------------|-------------|---------------|--------|
| Pol. | Frequency (MHz) | Reading (dBuV) | Factor (dB/m) | Emission | Limit (dBuV/m) | Margin (dB) | Detector Type | Result |
| | | | | level (dBuV/m) | | | | |
| V | 4960.57 | 40.54 | 5.17 | 45.71 | 74.00 | -28.29 | PK | PASS |
| V | 7440.25 | 34.48 | 9.83 | 44.31 | 74.00 | -29.69 | PK | PASS |
| V | 9920.99 | 29.47 | 13.27 | 42.74 | 74.00 | -31.27 | PK | PASS |
| V | 12400.01 | * | * | * | 74.00 | * | PK | PASS |
| V | 14880.95 | * | * | * | 74.00 | * | PK | PASS |
| V | 17360.83 | * | * | * | 74.00 | * | PK | PASS |
| H | 4960.45 | 42.60 | 5.17 | 47.77 | 74.00 | -26.24 | PK | PASS |
| H | 7440.53 | 33.34 | 9.83 | 43.17 | 74.00 | -30.84 | PK | PASS |
| H | 9920.60 | 28.32 | 13.27 | 41.59 | 74.00 | -32.41 | PK | PASS |
| H | 12400.02 | * | * | * | 74.00 | * | PK | PASS |
| H | 14880.43 | * | * | * | 74.00 | * | PK | PASS |
| H | 17360.20 | * | * | * | 74.00 | * | PK | PASS |
| V | 4960.89 | 32.84 | 5.17 | 38.01 | 54.00 | -15.99 | AV | PASS |
| V | 7440.23 | 22.56 | 9.83 | 32.39 | 54.00 | -21.61 | AV | PASS |
| V | 9920.24 | 18.74 | 13.27 | 32.01 | 54.00 | -21.99 | AV | PASS |
| V | 12400.91 | * | * | * | 54.00 | * | AV | PASS |
| V | 14880.30 | * | * | * | 54.00 | * | AV | PASS |
| V | 17360.67 | * | * | * | 54.00 | * | AV | PASS |
| H | 4960.45 | 31.22 | 5.17 | 36.39 | 54.00 | -17.61 | AV | PASS |
| H | 7440.53 | 24.14 | 9.83 | 33.97 | 54.00 | -20.04 | AV | PASS |
| H | 9920.60 | 17.57 | 13.27 | 30.84 | 54.00 | -23.16 | AV | PASS |
| H | 12400.02 | * | * | * | 54.00 | * | AV | PASS |
| H | 14880.43 | * | * | * | 54.00 | * | AV | PASS |
| H | 17360.20 | * | * | * | 54.00 | * | AV | PASS |

ANNEX A TEST SETUP PHOTOS

Please refer to the document "8132EU012104W-AA.PDF"

ANNEX B EXTERNAL PHOTOS

Please refer to the document "8132EU012104W-AB.PDF"

ANNEX C INTERNAL PHOTOS

Please refer to the document "8132EU012104W-AC.PDF"

ANNEX D TEST DATA

Please refer to the document "8132EU012104W-AD.PDF"



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--- End of Report ---

