

TEST REPORT

Report No..... : KS2405S1702E02

FCC ID..... : 2BGDJ-LS01

Applicant..... : Shenzhen linkedsafe Sports Technology Co., Ltd.

Address..... : Building C, Room 503, Huafeng Zhihui Innovation Park, Gushu 2nd Road,
Gushu Community, Xixiang Street, Bao'an District, Shenzhen.

Manufacturer..... : Shenzhen linkedsafe Sports Technology Co., Ltd.

Address..... : Building C, Room 503, Huafeng Zhihui Innovation Park, Gushu 2nd Road,
Gushu Community, Xixiang Street, Bao'an District, Shenzhen.

Product Name..... : smart helmet

Trademark..... : linkedsafe

Model/Type reference..... : LS01-B, LS01-W

Standard..... : 47 CFR Part 15.247

Date of Receipt..... : May 10, 2024

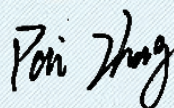
Date of Test Date..... : May 10, 2024 to May 16, 2024

Date of issue..... : May 16, 2024

Test result..... : Pass

Conclusion..... : The submitted sample was found to COMPLY with the standards above.

Prepared by: Pai Zheng
(Printed name + Signature)



Approved by: Sky Dong
(Printed name + Signature)



Testing Laboratory Name...: KSIGN(Guangdong) Testing Co., Ltd.

Address..... : West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial
Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong,
China

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1. TEST SUMMARY

1.1. Test Standards

The tests were performed according to following standards:

47 CFR Part 15.247: Operation within the bands 902-928 MHz, 2400-2483.5 MHz, and 5725-5850 MHz

ANSI C63.10-2013: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

ANSI C63.10-2020: American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

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.

1.2. Report Version

| Revised No. | Date of issue | Description |
|-------------|---------------|-------------|
| 01 | May 16, 2024 | Original |
| | | |
| | | |
| | | |

1.3. Test Description

| Test Item | Standard | Requirement | Result |
|---|--------------------|----------------------------------|--------|
| Antenna requirement | 47 CFR Part 15.247 | 47 CFR 15.203 | Pass |
| Conducted Emission at AC power line | 47 CFR Part 15.247 | 47 CFR 15.207(a) | Pass |
| Occupied Bandwidth | 47 CFR Part 15.247 | 47 CFR 15.247(a)(2) | Pass |
| Maximum Conducted Output Power | 47 CFR Part 15.247 | 47 CFR 15.247(b)(3) | Pass |
| Power Spectral Density | 47 CFR Part 15.247 | 47 CFR 15.247(e) | Pass |
| Emissions in non-restricted frequency bands | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Band edge emissions (Radiated) | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (below 1GHz) | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |
| Emissions in frequency bands (above 1GHz) | 47 CFR Part 15.247 | 47 CFR 15.247(d), 15.209, 15.205 | Pass |

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1.4. Test Facility

KSIGN(Guangdong) Testing Co., Ltd.

West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

The test facility is recognized, certified, or accredited by the following organizations:

CNAS-Lab Code: L13261

KSIGN(Guangdong) Testing Co., Ltd. has been assessed and proved to be in Compliance with CNAS-CL01 Accreditation Criteria for Testing and Calibration Laboratories (identical to ISO/IEC17025: 2017 General Requirements) for the Competence of Testing and Calibration Laboratories.

A2LA-Lab Cert. No.: 5457.01

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been accredited by A2LA for technical competence in the field of electrical testing, and proved to be in compliance with ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories and any additional program requirements in the identified field of testing

ISED#: 25693 CAB identifier.: CN0096

KSIGN(Guangdong) Testing Co., Ltd. has been listed by Innovation, Science and Economic Development Canada to perform electromagnetic emission measurement.

FCC-Registration No.: 294912 Designation Number: CN1328

KSIGN(Guangdong) Testing Co., Ltd. EMC Laboratory has been listed on the US Federal Communications Commission list of test facilities recognized to perform electromagnetic emissions measurements.

1.5. Measurement Uncertainty

| Test Items | Measurement Uncertainty |
|---------------------------------|-------------------------|
| Conducted Emission (150k-30MHz) | ± 3.34dB |
| Output Power, Conducted | ± 1.4dB |
| PSD, Conducted | ± 1.0dB |
| Spurious Emissions, Conducted | ± 3.3dB |
| RSE (1-18GHz) | ± 4.68dB |
| RSE (30-1000MHz) | ± 5.7dB |
| RSE (18-40GHz) | ± 5.18dB |

The reported uncertainty of measurement $y \pm U$, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95 %. Otherwise required by the applicant or Product Regulations. Decision Rule in this report did not consider the uncertainty.

2. GENERAL INFORMATION

2.1. General Description Of EUT

| | |
|-------------------------|--|
| Test Sample Number: | 1-1(Normal Sample), 1-2(Engineering Sample) |
| Product Name: | smart helmet |
| Trademark: | linkedsafe |
| Model / Type reference: | LS01-B , LS01-W |
| Model Difference: | The difference between product models is only the color of the appearance is not the same, and the different model names are for the market demand. Other power supply methods, internal structure, circuit and key components are the same, do not affect the safety and electromagnetic compatibility performance. |
| Power Supply: | DC 3.7V |
| Power Adaptor: | DC 5V |
| Operation Frequency: | 2402MHz to 2480MHz |
| Number of Channels: | 40 |
| Modulation Type: | GFSK |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 2.07dBi |
| Max TX Power: | 3.84dBm |
| Hardware Version: | V1.0 |
| Software Version: | V1.0 |

Note:Antenna gain provided by the applicant Can affect the validity of results

2.2. Accessory Equipment Information

The EUT was tested as an independent device.

2.3. Description of Test Modes

| No. | Title | Description of Mode |
|------------|---------|---|
| Test Mode1 | TX mode | Keep the EUT connect to AC power line and works in continuously transmitting mode with GFSK modulation. |

2.4. Operation channel list

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|---------|-----------------|
| 0 | 2402 | 10 | 2422 | 20 | 2442 | 30 | 2462 |
| 1 | 2404 | 11 | 2424 | 21 | 2444 | 31 | 2464 |
| 2 | 2406 | 12 | 2426 | 22 | 2446 | 32 | 2466 |
| 3 | 2408 | 13 | 2428 | 23 | 2448 | 33 | 2468 |
| 4 | 2410 | 14 | 2430 | 24 | 2450 | 34 | 2470 |
| 5 | 2412 | 15 | 2432 | 25 | 2452 | 35 | 2472 |
| 6 | 2414 | 16 | 2434 | 26 | 2454 | 36 | 2474 |
| 7 | 2416 | 17 | 2436 | 27 | 2456 | 37 | 2476 |
| 8 | 2418 | 18 | 2438 | 28 | 2458 | 38 | 2478 |
| 9 | 2420 | 19 | 2440 | 29 | 2460 | 39 | 2480 |

2.5. Measurement Instruments List

| Conducted Emission at AC power line | | | | |
|-------------------------------------|--------------|-----------|------------------|------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| LISN | R&S | ENV432 | 1326.6105.02 | 2025-01-21 |
| EMI Test Receiver | R&S | ESR | 102524 | 2025-01-21 |
| Manual RF Switch | JS TOYO | / | MSW-01/002 | 2025-01-21 |
| ISN CAT6 | Schwarzbeck | CAT5 8158 | 227 | 2025-01-21 |
| Color Signal Generator | Philips | PM5418 | 672926 | 2025-01-21 |
| Power Absorbing Clamp | R&S | MDS-21 | 100925 | 2025-01-22 |
| TV Tuner | SUNLIGHT | ST5075 | / | 2024-12-12 |
| Artificial power network | EVERFINE | LS-5 | G657431CD1431112 | 2025-01-21 |

| Maximum Conducted Output Power Power Spectral Density Emissions in non-restricted frequency bands Occupied Bandwidth | | | | |
|---|----------------------------|---------------------|------------|------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| Wideband Radio Communication Tester | R&S | CMU200 | 115297 | 2025-01-19 |
| Audio Analyzer | R&S | UPL16 | 100001 | 2025-01-19 |
| Shielding box | Gxiong | GX-5915A | 2201113 | 2025-01-19 |
| High Pass Filter | COM-MW Technology Co., Ltd | ZHPF-M1.2-9G-187 | 09203403 | 2025-01-19 |
| Band Stop Filter | COM-MW Technology Co., Ltd | ZBSF6-C820-920-188 | 09203401 | 2025-01-19 |
| Splitter | COM-MW Technology Co., Ltd | ZPD-M1-8-2103 | 09203407 | 2025-01-19 |
| Coaxial Cable | BEBES | A40-2.92M2.92F-4.5M | 1907021 | 2025-01-19 |
| Hygrothermograph | Anymetre | JB913 | / | 2025-01-19 |
| Climate Chamber | Angul | AGNH80L | 1903042120 | 2025-01-19 |
| Spectrum Analyzer | HP | 8593E | 3831U02087 | 2025-01-19 |
| Dual Output DC Power Supply | Agilent | E3646A | MY40009992 | 2025-01-19 |
| RF Control Unit | Tonscend | JS0806-2 | / | 2025-01-19 |
| Analog Signal Generator | HP | 83752A | 3344A00337 | 2025-01-19 |
| Vector Signal Generator | Agilent | N5182A | MY50142520 | 2025-01-19 |
| Wideband Radio Communication Tester | R&S | CMW500 | 157282 | 2025-01-19 |
| Spectrum Analyzer | R&S | FSV40-N | 101798 | 2025-01-19 |

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| Band edge emissions (Radiated) Emissions in frequency bands (below 1GHz) Emissions in frequency bands (above 1GHz) | | | | |
|---|---------------|-------------|------------|------------|
| Test Equipment | Manufacturer | Model No. | Serial No. | Cal. Until |
| Color Signal Generator | Philips | PM5418 | 672926 | 2025-01-21 |
| Log Periodic Antenna | Schwarzbeck | VULB 9163 | 1230 | 2025-01-29 |
| Pre-Amplifier | Schwarzbeck | BBV 9745 | 9745#129 | 2025-01-21 |
| Broadcast Television Signal Generator | R&S | SFE100 | 141038 | 2025-01-21 |
| Analog Signal Generator | Agilent | 8648A | 3847M00445 | 2025-01-21 |
| EMI Test Receiver | R&S | ESR | 102525 | 2025-01-21 |
| Loop Antenna | Beijin ZHINAN | ZN30900C | 18050 | 2025-01-29 |
| Horn Antenna | Schwarzbeck | BBHA 9120 D | 2023 | 2025-01-22 |
| Pre-Amplifier | EMCI | EMC051835SE | 980662 | 2025-01-21 |
| Spectrum Analyzer | Keysight | N9020A | MY46471971 | 2025-01-21 |

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3. Evaluation Results (Evaluation)

3.1. Antenna requirement

| | |
|-------------------|---|
| Test Requirement: | Refer to 47 CFR Part 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. |
|-------------------|---|

3.1.1. Conclusion:

| |
|--|
| The directional gain of the antenna less than 6dBi. It comply with the standard requirement. In case of replacement of broken antenna the same antenna type must be used. Antenna structure please refer to the EUT internal photographs antenna photo. |
|--|

4. Radio Spectrum Matter Test Results (RF)

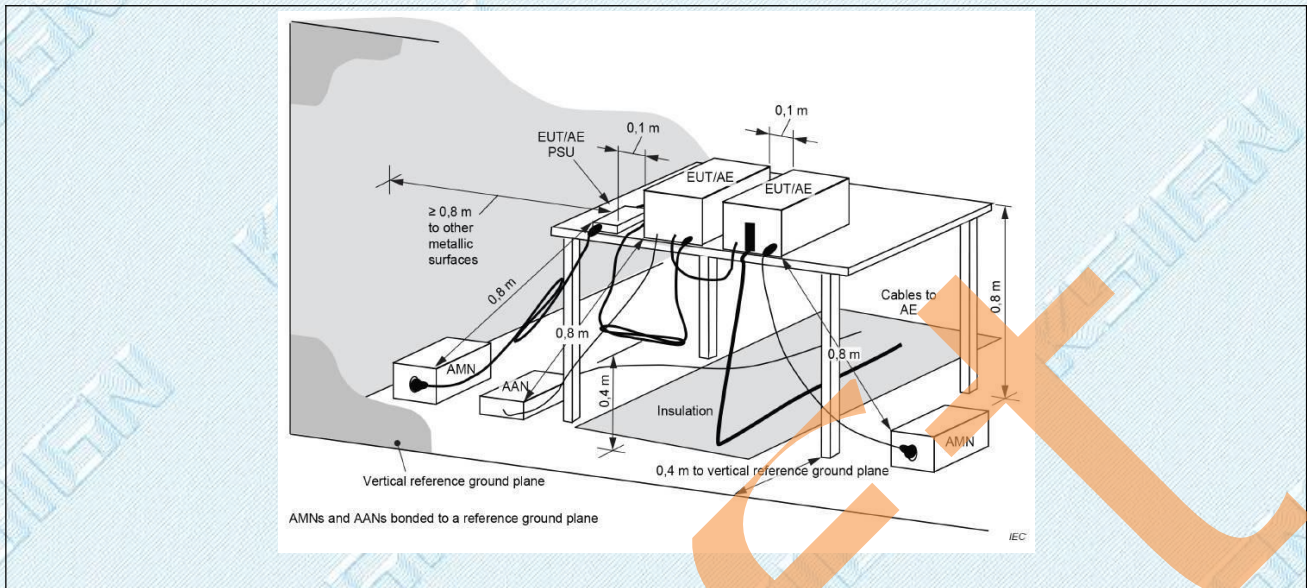
4.1. Conducted Emission at AC power line

| | | | |
|-------------------|--|------------------------|-----------|
| Test Requirement: | Refer to 47 CFR 15.207(a), 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 µH/50 ohms line impedance stabilization network (LISN). | | |
| Test Limit: | Frequency of emission (MHz) | Conducted limit (dBµV) | |
| | | 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 C63.10-2013 section 6.2 ANSI C63.10-2020 section 6.2 | | |
| Procedure: | Refer to ANSI C63.10-2013 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices Refer to ANSI C63.10-2020 section 6.2, standard test method for ac power-line conducted emissions from unlicensed wireless devices | | |

4.1.1. E.U.T. Operation:

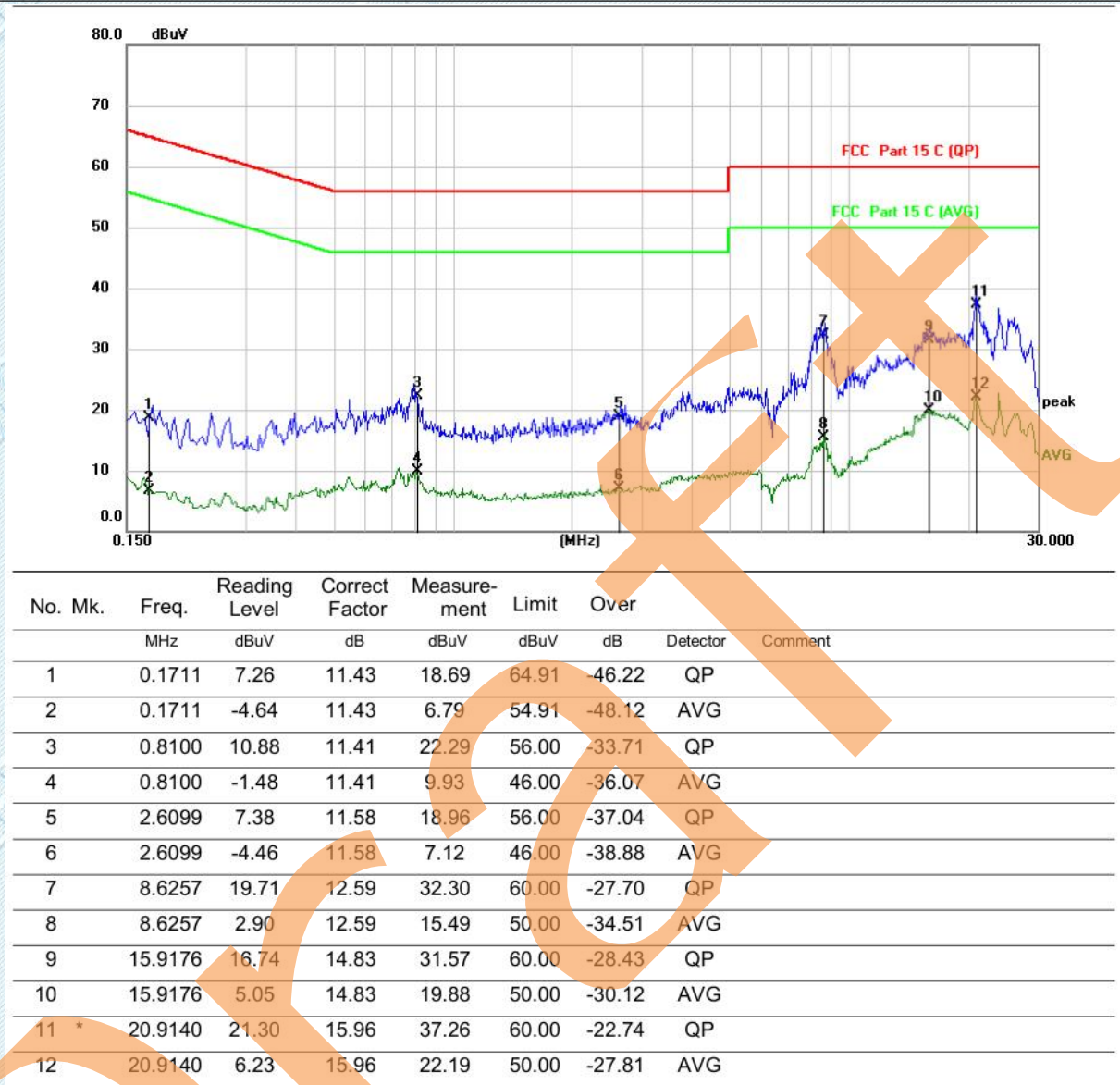
| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.1.2. Test Setup Diagram:



4.1.3. Test Data:

Test Mode1 / Line: Line / Band: 2400-2483.5 MHz / BW: 1 / CH: M

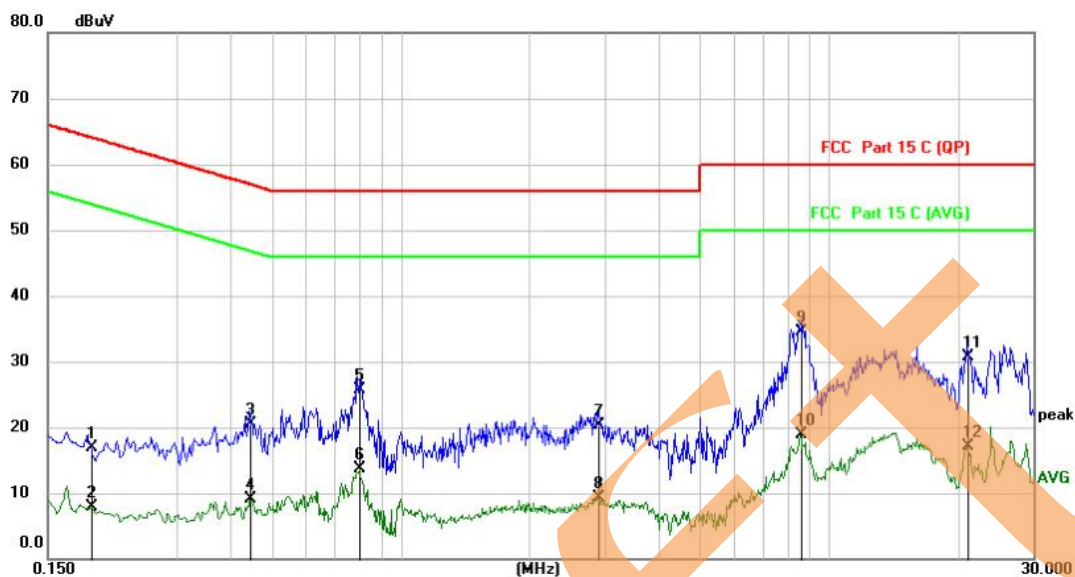


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Test Mode1 / Line: Neutral / Band: 2400-2483.5 MHz / BW: 1 / CH: M



| No. Mk. | Freq. MHz | Reading Level dBuV | Correct Factor dB | Measure- ment dBuV | Limit dBuV | Over dB | Detector | Comment |
|---------|--------------|--------------------------|-------------------------|--------------------------|---------------|------------|----------|---------|
| 1 | 0.1900 | 5.58 | 11.38 | 16.96 | 64.04 | -47.08 | QP | |
| 2 | 0.1900 | -3.52 | 11.38 | 7.86 | 54.04 | -46.18 | AVG | |
| 3 | 0.4460 | 9.14 | 11.31 | 20.45 | 56.95 | -36.50 | QP | |
| 4 | 0.4460 | -2.27 | 11.31 | 9.04 | 46.95 | -37.91 | AVG | |
| 5 | 0.8020 | 14.38 | 11.38 | 25.76 | 56.00 | -30.24 | QP | |
| 6 | 0.8020 | 2.37 | 11.38 | 13.75 | 46.00 | -32.25 | AVG | |
| 7 | 2.8860 | 8.59 | 11.63 | 20.22 | 56.00 | -35.78 | QP | |
| 8 | 2.8860 | -2.25 | 11.63 | 9.38 | 46.00 | -36.62 | AVG | |
| 9 * | 8.5859 | 21.99 | 12.56 | 34.55 | 60.00 | -25.45 | QP | |
| 10 | 8.5859 | 6.31 | 12.56 | 18.87 | 50.00 | -31.13 | AVG | |
| 11 | 21.1219 | 14.67 | 16.11 | 30.78 | 60.00 | -29.22 | QP | |
| 12 | 21.1219 | 0.96 | 16.11 | 17.07 | 50.00 | -32.93 | AVG | |

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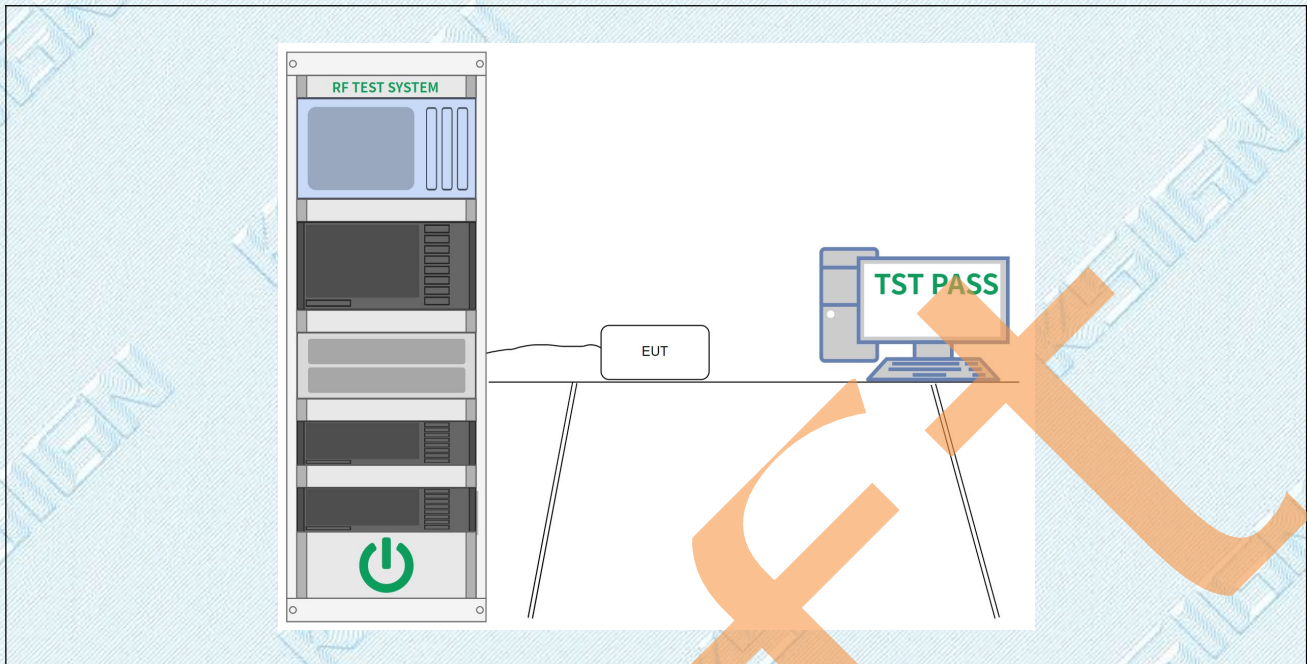
4.2. Occupied Bandwidth

| | |
|-------------------|---|
| Test Requirement: | 47 CFR 15.247(a)(2) |
| Test Limit: | Refer to 47 CFR 15.247(a)(2), 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: | ANSI C63.10-2013, section 11.8 ANSI C63.10-2020, section 11.8 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | <p>a) Set RBW = 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max hold. e) Sweep = auto couple. f) Allow the trace to stabilize. g) 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.</p> <p>11.8.1 Option 1 The steps for the first option are as follows: a) Set RBW = shall be in the range of 1% to 5% of the OBW but not less than 100 kHz. b) Set the VBW $\geq [3 \times \text{RBW}]$. c) Detector = peak. d) Trace mode = max-hold. e) Sweep = No faster than coupled (auto) time. f) Allow the trace to stabilize. g) Measure the maximum width of the emission by placing two markers, one at the lowest frequency and the other at the highest frequency of the envelope of the spectral display, such that each marker is at or slightly below the “-6 dB down amplitude”. If a marker is below this “-6 dB down amplitude” value, then it shall be as close as possible to this value.</p> <p>11.8.2 Option 2 The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described in 11.8.1 (i.e., RBW = 100 kHz, VBW $\geq 3 \times \text{RBW}$, and peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be ≥ 6 dB.</p> |

4.2.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.2.2. Test Setup Diagram:



4.2.3. Test Data:

Please Refer to Appendix for Details.

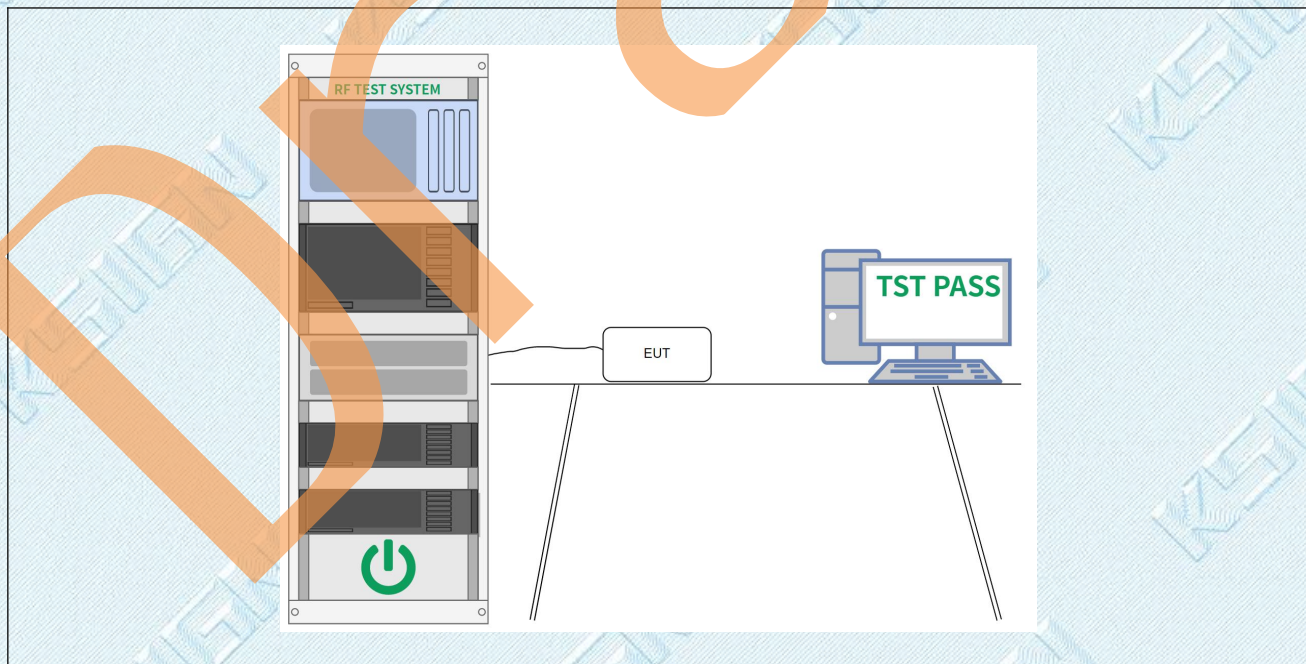
4.3. Maximum Conducted Output Power

| | |
|-------------------|--|
| Test Requirement: | 47 CFR 15.247(b)(3) |
| Test Limit: | Refer to 47 CFR 15.247(b)(3), 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. |
| Test Method: | ANSI C63.10-2013, section 11.9.1 ANSI C63.10-2020 section 11.9.1 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013, section 11.9.1 Maximum peak conducted output power ANSI C63.10-2020, section 11.9.1 Maximum peak conducted output power |

4.3.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.3.2. Test Setup Diagram:



4.3.3. Test Data:

Please Refer to Appendix for Details.

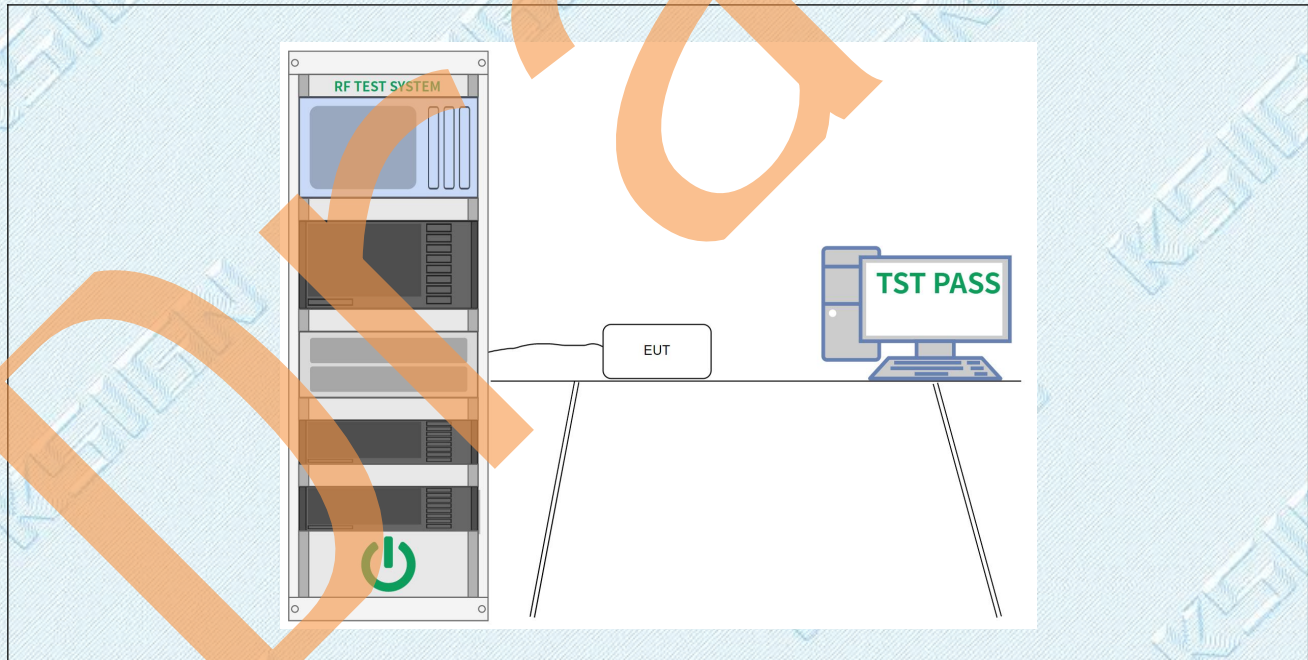
4.4. Power Spectral Density

| | |
|-------------------|---|
| Test Requirement: | 47 CFR 15.247(e) |
| Test Limit: | Refer to 47 CFR 15.247(e), 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: | ANSI C63.10-2013, section 11.10 ANSI C63.10-2020, section 11.10 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013, section 11.10, Maximum power spectral density level in the fundamental emission ANSI C63.10-2020, section 11.10, Maximum power spectral density level in the fundamental emission |

4.4.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.4.2. Test Setup Diagram:



4.4.3. Test Data:

Please Refer to Appendix for Details.

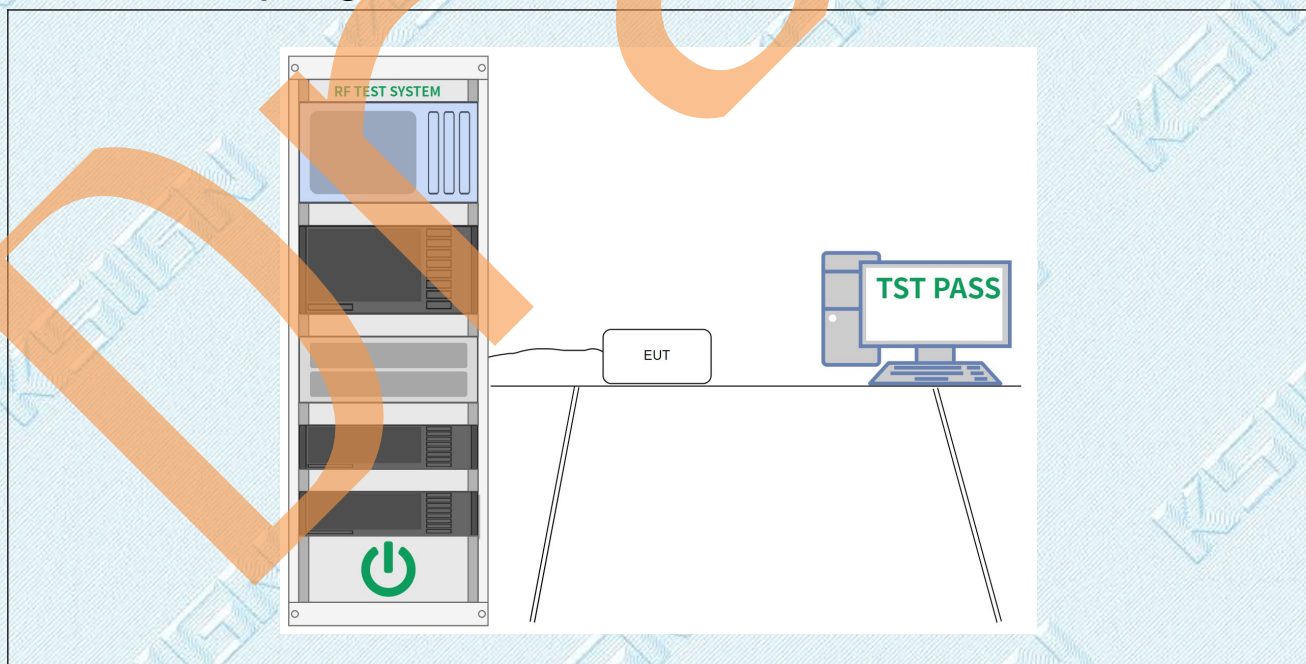
4.5. Emissions in non-restricted frequency bands

| | |
|-------------------|---|
| Test Requirement: | 47 CFR 15.247(d), 15.209, 15.205 |
| Test Limit: | Refer to 47 CFR 15.247(d), 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. |
| Test Method: | ANSI C63.10-2013 section 11.11 ANSI C63.10-2020 section 11.11 KDB 558074 D01 15.247 Meas Guidance v05r02 |
| Procedure: | ANSI C63.10-2013 Section 11.11.1, Section 11.11.2, Section 11.11.3 ANSI C63.10-2020 Section 11.11.1, Section 11.11.2, Section 11.11.3 |

4.5.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.5.2. Test Setup Diagram:



4.5.3. Test Data:

Please Refer to Appendix for Details.

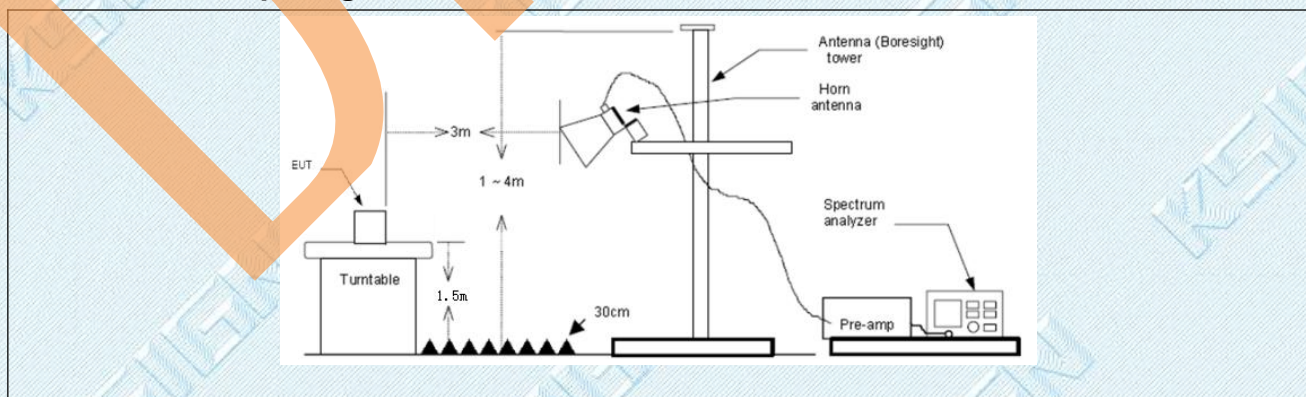
4.6. Band edge emissions (Radiated)

| | | | |
|---|--|-----------------------------------|-------------------------------|
| Test Requirement: | Refer to 47 CFR 15.247(d), 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 |
| <p>** 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.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> | | | |
| Test Method: | ANSI C63.10-2013 section 6.10 ANSI C63.10-2020 section 6.10 KDB 558074 D01 15.247 Meas Guidance v05r02 | | |
| Procedure: | ANSI C63.10-2013 section 6.10.5.2 ANSI C63.10-2020 section 6.10.5.2 | | |

4.6.1. E.U.T. Operation:

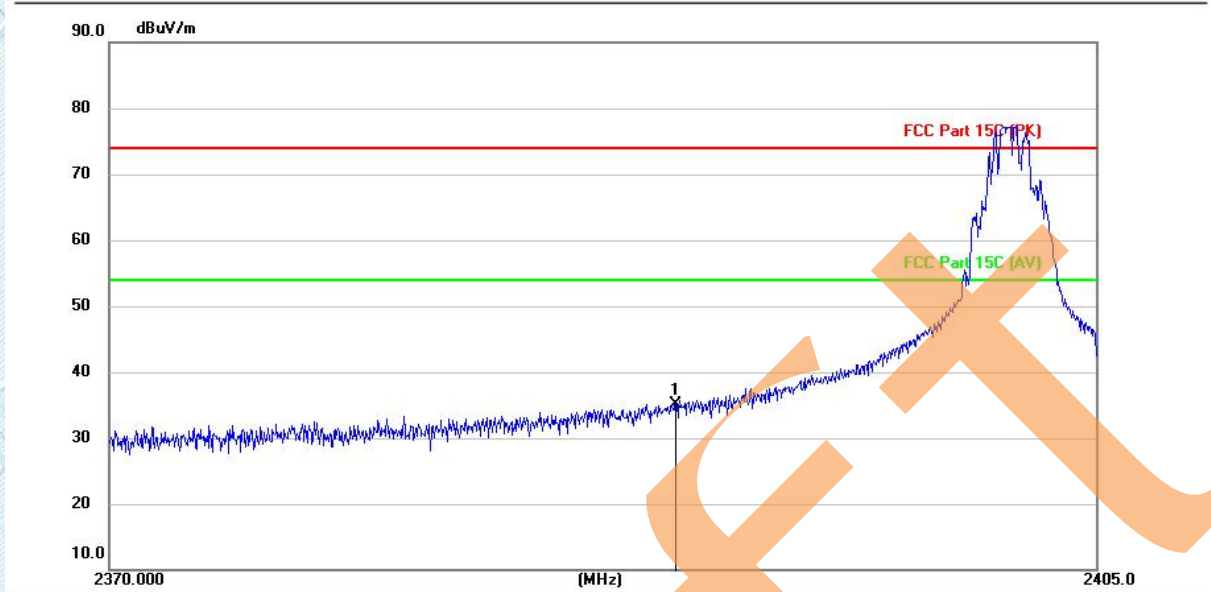
| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.6.2. Test Setup Diagram:



4.6.3. Test Data:

Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L

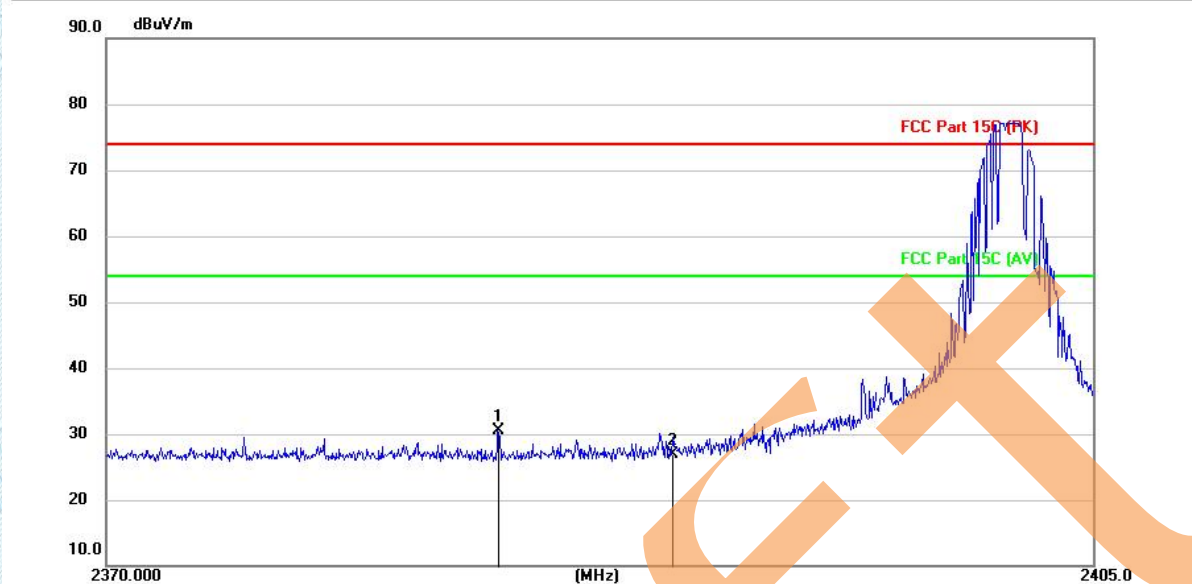


| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | * | 2390.000 | 50.99 | -15.87 | 35.12 | 74.00 | -38.88 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L


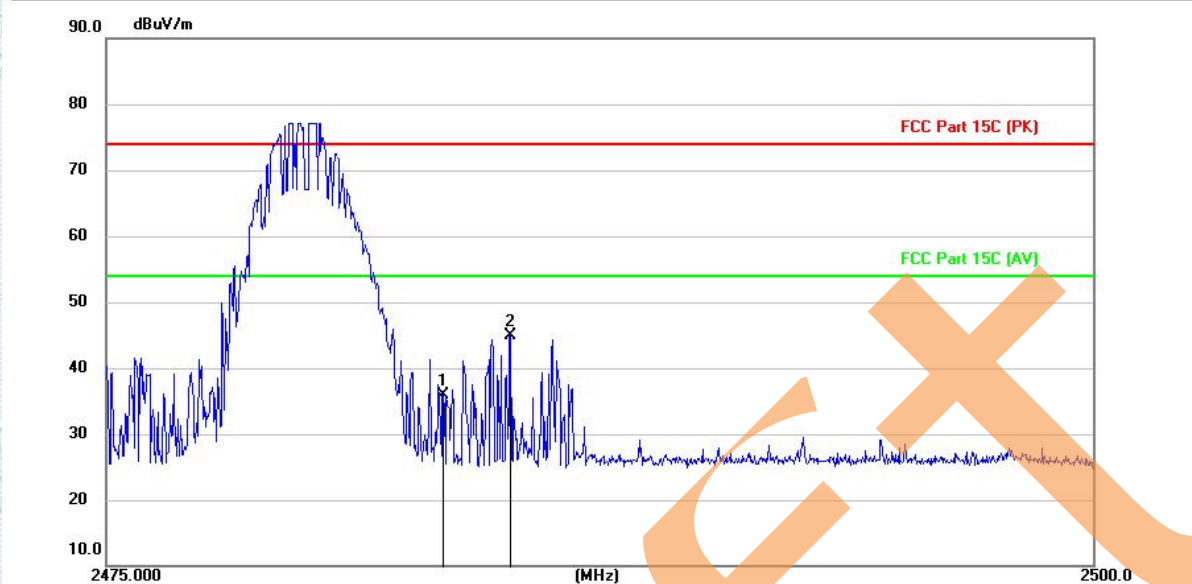
| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | * | 2383.839 | 46.45 | -15.86 | 30.59 | 74.00 | -43.41 | peak |
| 2 | | 2390.000 | 42.87 | -15.87 | 27.00 | 74.00 | -47.00 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H



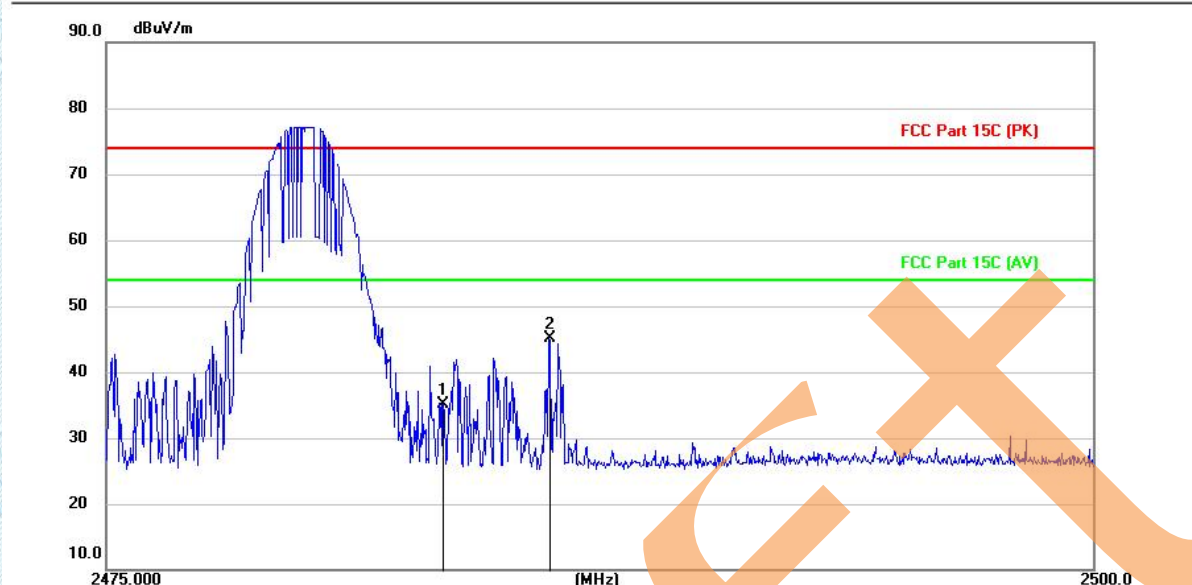
| No. | Mk. | Freq. | Reading Level | Correct Factor | Measurement | Limit | Over | Detector |
|-----|-----|----------|---------------|----------------|-------------|----------|--------|----------|
| | | MHz | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | | 2483.500 | 52.11 | -16.18 | 35.93 | 74.00 | -38.07 | peak |
| 2 | * | 2485.202 | 61.15 | -16.20 | 44.95 | 74.00 | -29.05 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: H



| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | | 2483.500 | 51.28 | -16.18 | 35.10 | 74.00 | -38.90 | peak |
| 2 | * | 2486.195 | 61.35 | -16.21 | 45.14 | 74.00 | -28.86 | peak |

Note:

- 1.Measurement = Reading level + Correct Factor
- 2.Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 3.The product only has BLE 1M, so only the worst BLE 1M data is recorded.
4. Since the peak value is less than the limit of the AVG value, there is no AVG data.

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

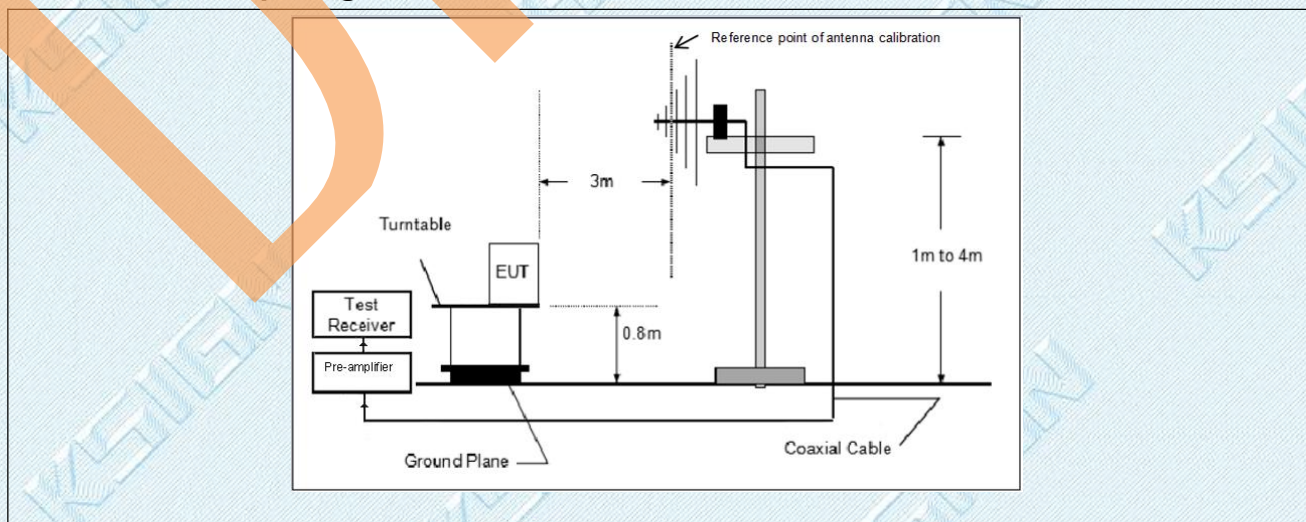
4.7. Emissions in frequency bands (below 1GHz)

| | | | |
|---|--|-----------------------------------|-------------------------------|
| Test Requirement: | Refer to 47 CFR 15.247(d), 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 |
| <p>** 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.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> | | | |
| Test Method: | ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | | |
| Procedure: | ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 | | |

4.7.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.7.2. Test Setup Diagram:



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

4.7.3. Test Data:

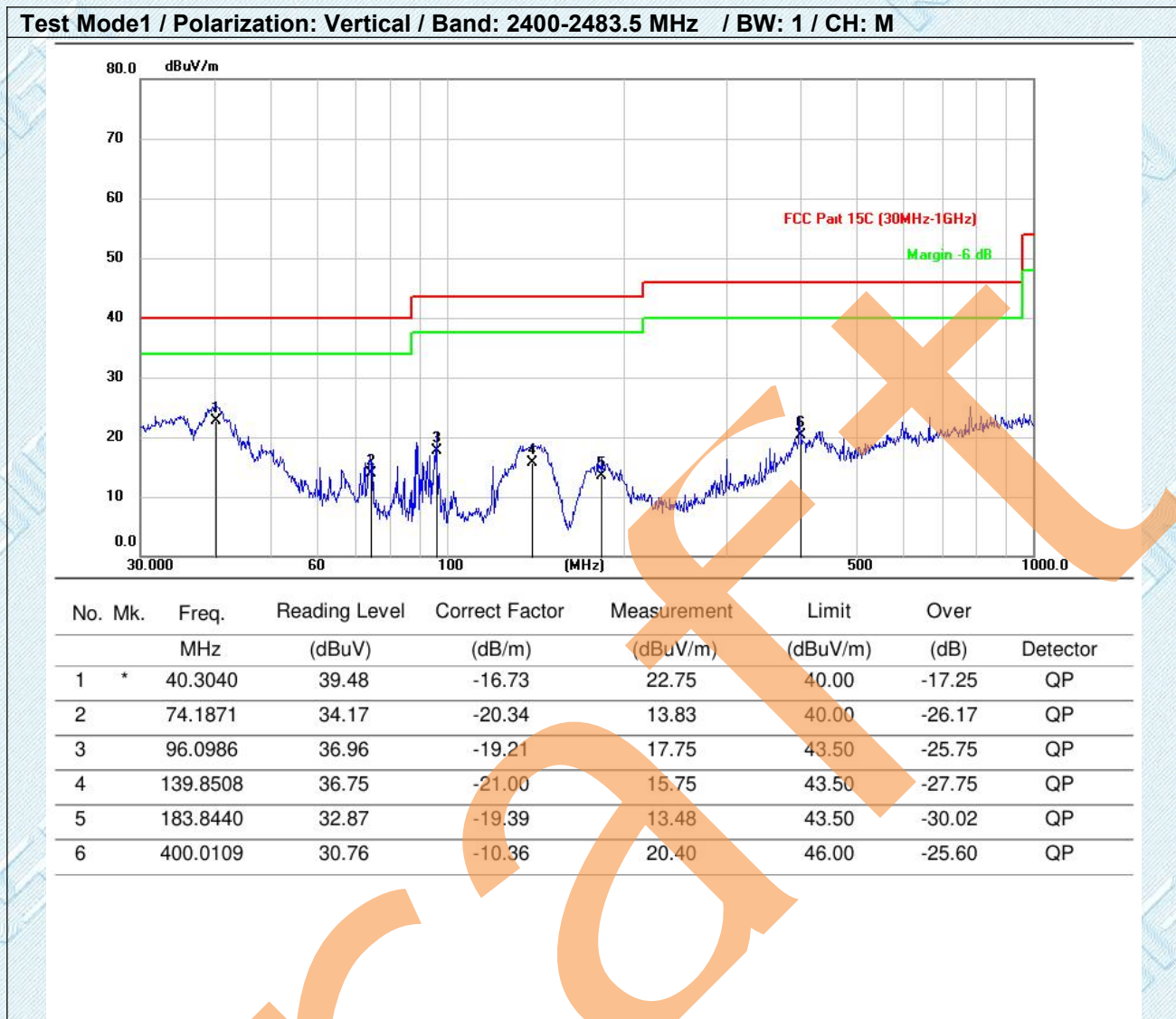
Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com



9 KHz - 30 MHz:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

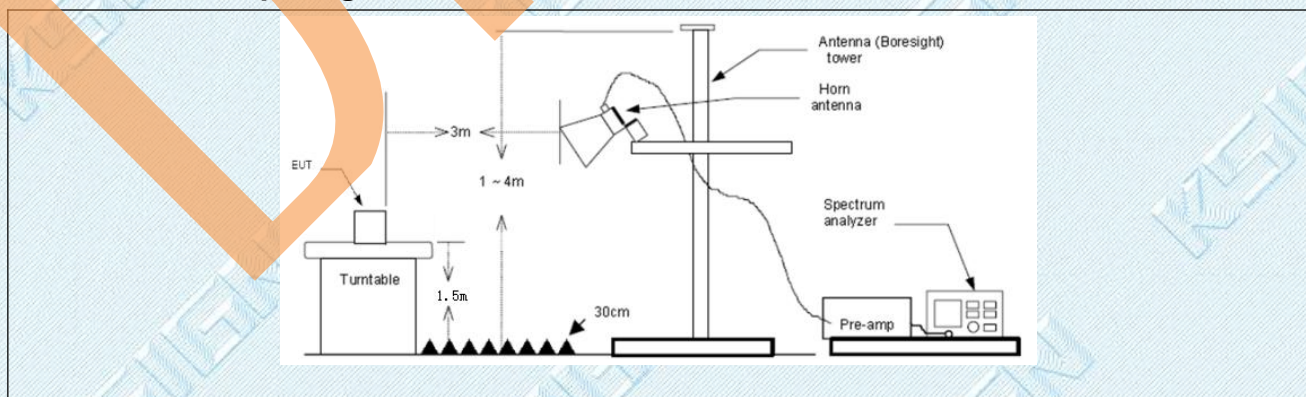
4.8. Emissions in frequency bands (above 1GHz)

| | | | |
|-------------------|---|-----------------------------------|-------------------------------|
| 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 |
| | <p>** 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.</p> <p>In the emission table above, the tighter limit applies at the band edges.</p> <p>The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9–90 kHz, 110–490 kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector.</p> | | |
| Test Method: | ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 KDB 558074 D01 15.247 Meas Guidance v05r02 | | |
| Procedure: | ANSI C63.10-2013 section 6.6.4 ANSI C63.10-2020 section 6.6.4 | | |

4.8.1. E.U.T. Operation:

| | |
|------------------------|------------|
| Operating Environment: | |
| Temperature: | 24.2 °C |
| Humidity: | 45.5 % |
| Atmospheric Pressure: | 102 kPa |
| Final test mode: | Test Mode1 |

4.8.2. Test Setup Diagram:



4.8.3. Test Data:

Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: L



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: L


| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | | 2400.800 | 45.91 | -10.12 | 35.79 | 74.00 | -38.21 | peak |
| 2 | | 4804.600 | 47.93 | -6.04 | 41.89 | 74.00 | -32.11 | peak |
| 3 | | 6548.800 | 44.66 | -1.06 | 43.60 | 74.00 | -30.40 | peak |
| 4 | | 9607.100 | 42.98 | 4.12 | 47.10 | 74.00 | -26.90 | peak |
| 5 | | 13850.300 | 40.30 | 9.75 | 50.05 | 74.00 | -23.95 | peak |
| 6 | * | 17775.600 | 37.99 | 14.92 | 52.91 | 74.00 | -21.09 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: M


| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | | 2400.800 | 41.41 | -10.12 | 31.29 | 74.00 | -42.71 | peak |
| 2 | | 3235.500 | 42.81 | -9.22 | 33.59 | 74.00 | -40.41 | peak |
| 3 | | 4804.600 | 42.93 | -6.04 | 36.89 | 74.00 | -37.11 | peak |
| 4 | | 9607.100 | 39.48 | 4.12 | 43.60 | 74.00 | -30.40 | peak |
| 5 | | 12961.200 | 35.00 | 11.03 | 46.03 | 74.00 | -27.97 | peak |
| 6 | * | 17775.600 | 36.49 | 14.92 | 51.41 | 74.00 | -22.59 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Test Mode1 / Polarization: Vertical / Band: 2400-2483.5 MHz / BW: 1 / CH: M


| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | | 2400.800 | 43.44 | -10.12 | 33.32 | 74.00 | -40.68 | peak |
| 2 | | 2837.700 | 43.15 | -9.82 | 33.33 | 74.00 | -40.67 | peak |
| 3 | | 4804.600 | 46.60 | -6.04 | 40.56 | 74.00 | -33.44 | peak |
| 4 | | 7992.100 | 42.25 | 2.94 | 45.19 | 74.00 | -28.81 | peak |
| 5 | | 9632.600 | 42.66 | 4.18 | 46.84 | 74.00 | -27.16 | peak |
| 6 | * | 15130.400 | 38.26 | 11.49 | 49.75 | 74.00 | -24.25 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

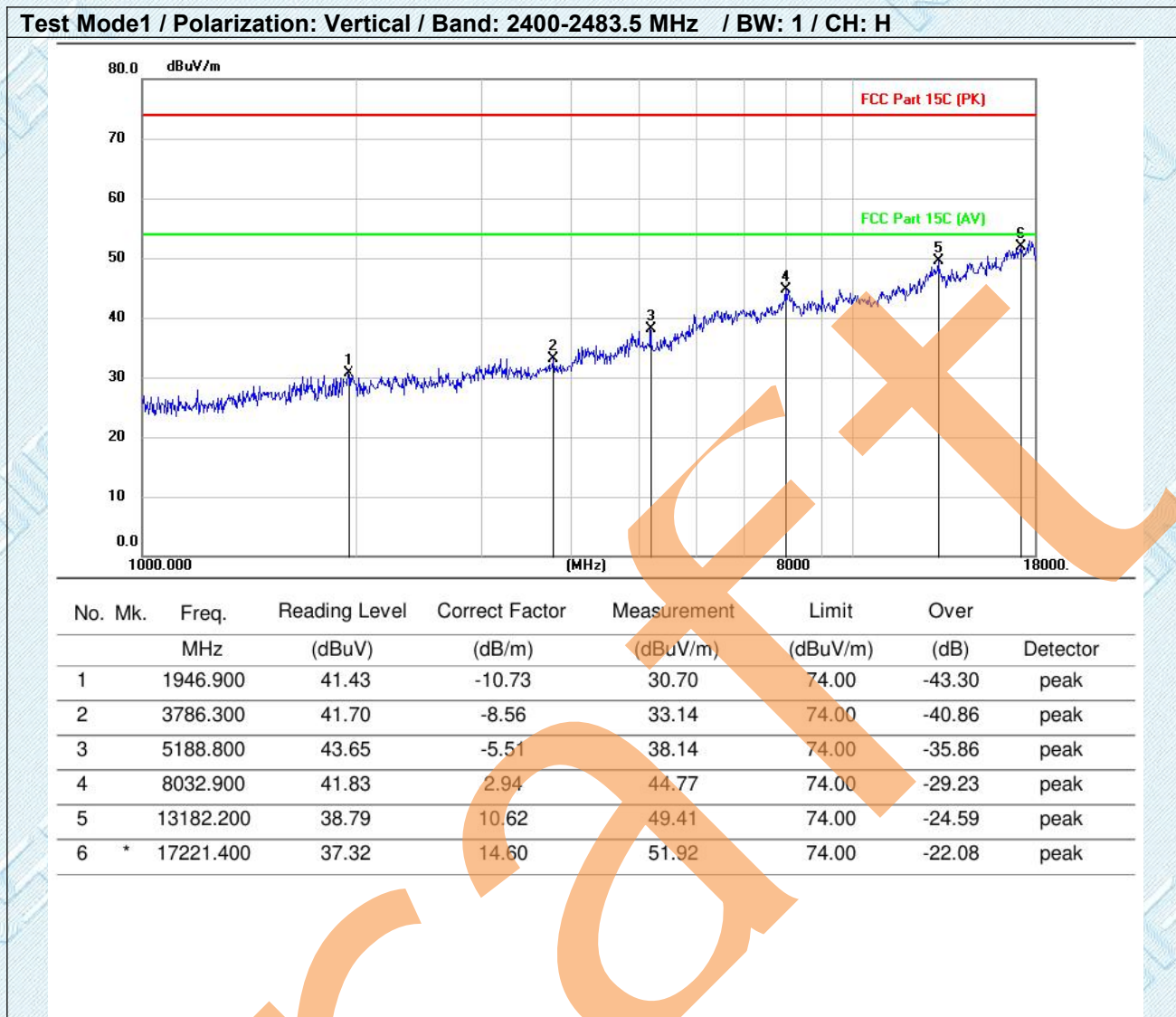
Test Mode1 / Polarization: Horizontal / Band: 2400-2483.5 MHz / BW: 1 / CH: H


| No. | Mk. | Freq. MHz | Reading Level (dBuV) | Correct Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Detector |
|-----|-----|--------------|-------------------------|--------------------------|-------------------------|-------------------|--------------|----------|
| 1 | | 3225.300 | 45.70 | -9.21 | 36.49 | 74.00 | -37.51 | peak |
| 2 | | 4804.600 | 45.17 | -6.04 | 39.13 | 74.00 | -34.87 | peak |
| 3 | | 5994.600 | 45.36 | -2.45 | 42.91 | 74.00 | -31.09 | peak |
| 4 | | 8085.600 | 42.14 | 2.91 | 45.05 | 74.00 | -28.95 | peak |
| 5 | | 11674.300 | 40.62 | 7.25 | 47.87 | 74.00 | -26.13 | peak |
| 6 | * | 15456.800 | 38.95 | 11.81 | 50.76 | 74.00 | -23.24 | peak |

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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Note:

- 1.Measurement = Reading level + Correct Factor
- 2.Correct Factor=Antenna Factor + Cable Loss -Preamplifier Factor
- 3.The product only has BLE 1M, so only the worst BLE 1M data is recorded.
- 4.18GHz~25GHz,the amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.
- 5.Since the peak value is less than the limit of the AVG value, there is no AVG data.

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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5. EUT TEST PHOTOS

Conducted Emission at AC power line



Occupied Bandwidth



Emissions in frequency bands (below 1GHz)



Emissions in frequency bands (above 1GHz)



6. PHOTOGRAPHS OF EUT CONSTRUCTIONAL

Refer to Appendix - EUT Photos for KS2405S1702E.docx

Draft

Appendix

TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.1. Appendix A: DTS Bandwidth

6.1.1. Test Result

| TestMode | Antenna | Freq[MHz] | DTS BW [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|-----------|--------------|---------|---------|------------|---------|
| BLE_1M | Ant1 | 2402 | 0.66 | 2401.65 | 2402.31 | 0.5 | PASS |
| | | 2440 | 0.74 | 2439.58 | 2440.32 | 0.5 | PASS |
| | | 2480 | 0.82 | 2479.50 | 2480.32 | 0.5 | PASS |

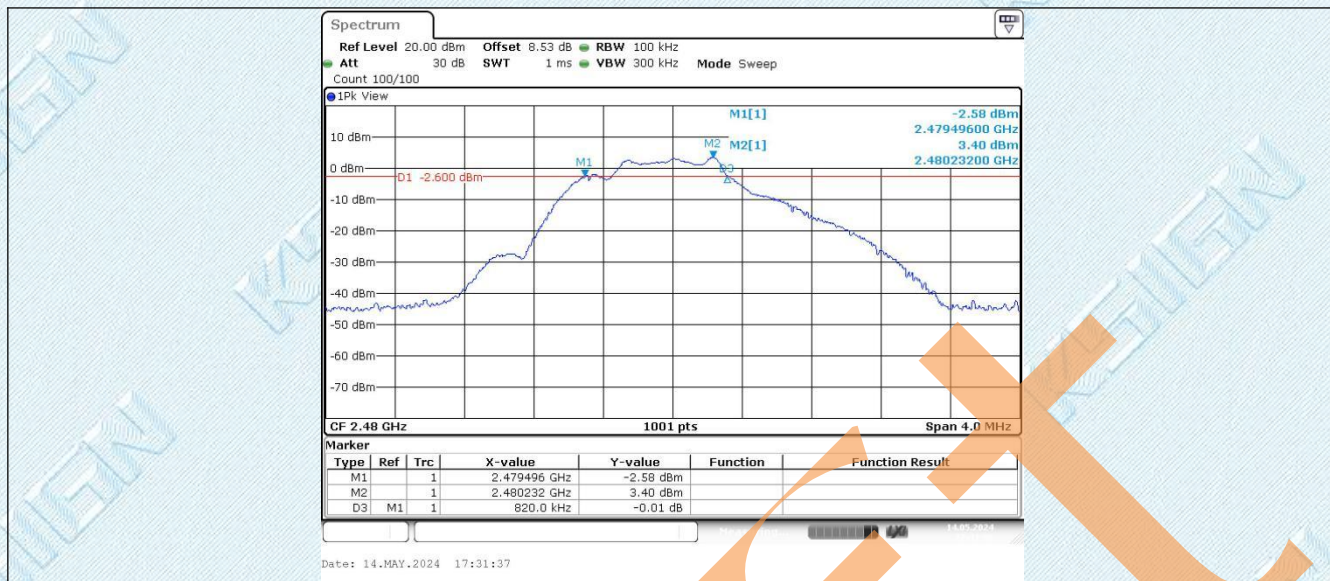
6.1.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

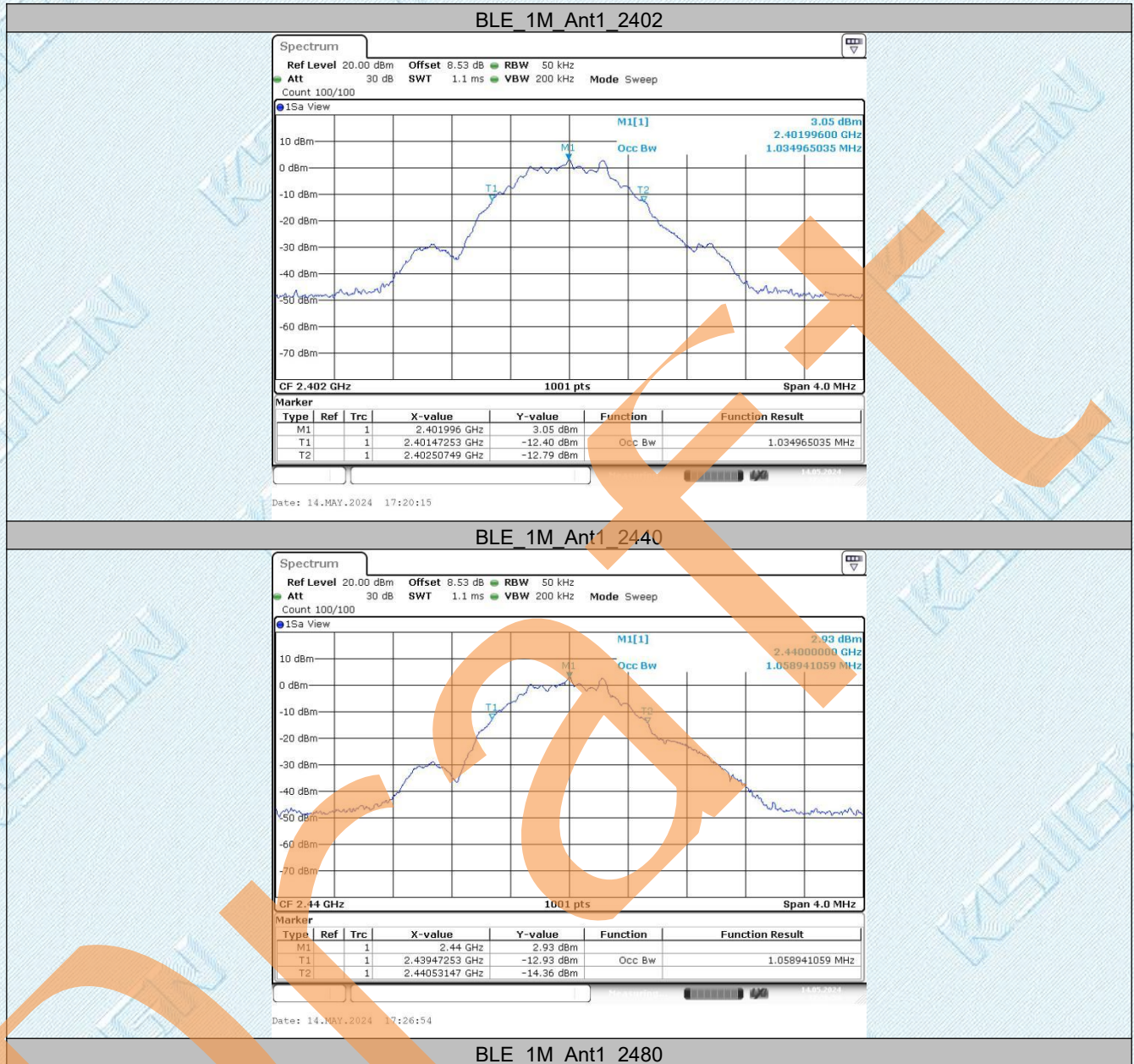
Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

6.2. Appendix B: Occupied Channel Bandwidth

6.2.1. Test Result

| TestMode | Antenna | Freq[MHz] | OCB [MHz] | FL[MHz] | FH[MHz] | Limit[MHz] | Verdict |
|----------|---------|-----------|-----------|----------|----------|------------|---------|
| BLE_1M | Ant1 | 2402 | 1.035 | 2401.473 | 2402.507 | --- | PASS |
| | | 2440 | 1.059 | 2439.473 | 2440.531 | --- | PASS |
| | | 2480 | 1.247 | 2479.401 | 2480.647 | --- | PASS |

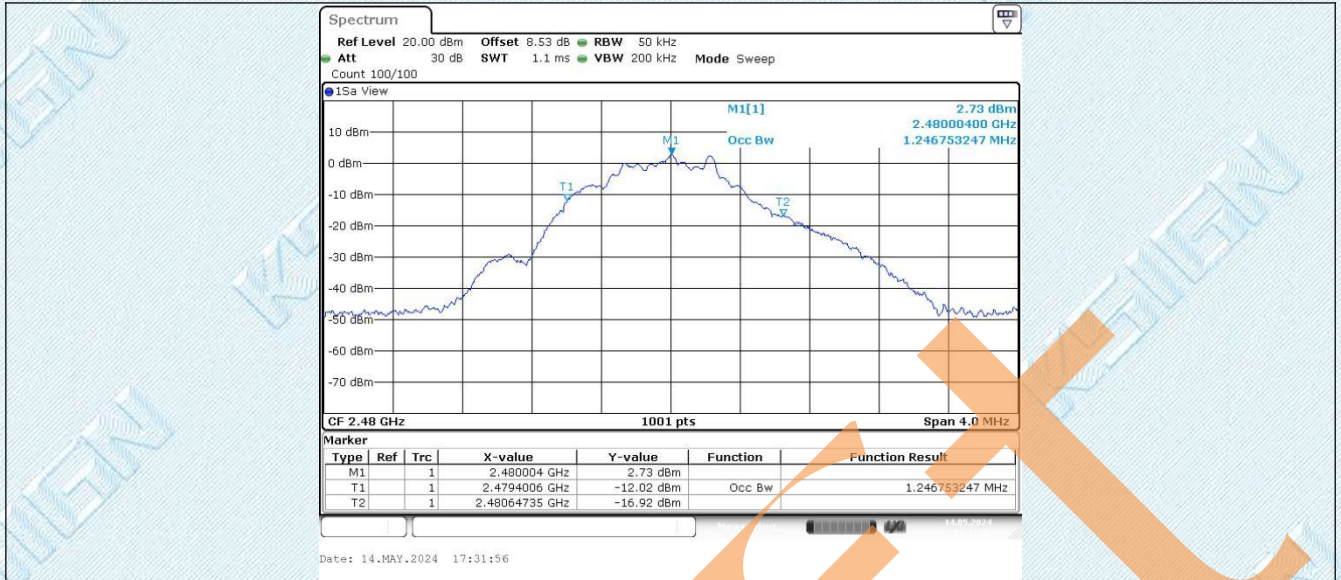
6.2.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdkesign.cn Web: www.gdkesign.com



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

Tel: +(86) 0755-2985 2678 Fax: +(86) 0755-2985 2397 E-mail: info@gdksign.cn Web: www.gdksign.com

6.3. Appendix C: Maximum conducted output power

6.3.1. Test Result Peak

| TestMode | Antenna | Freq[MHz] | Conducted Peak Power[dBm] | Conducted Limit[dBm] | EIRP[dBm] | EIRP Limit[dBm] | Verdict |
|----------|---------|-----------|---------------------------|----------------------|-----------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | 3.84 | ≤30 | 5.91 | ≤36 | PASS |
| | | 2440 | 3.69 | ≤30 | 5.76 | ≤36 | PASS |
| | | 2480 | 3.49 | ≤30 | 5.56 | ≤36 | PASS |

Note:

Antenna Gain:2.07dBi

EIRP=Conducted Power+Antenna Gain

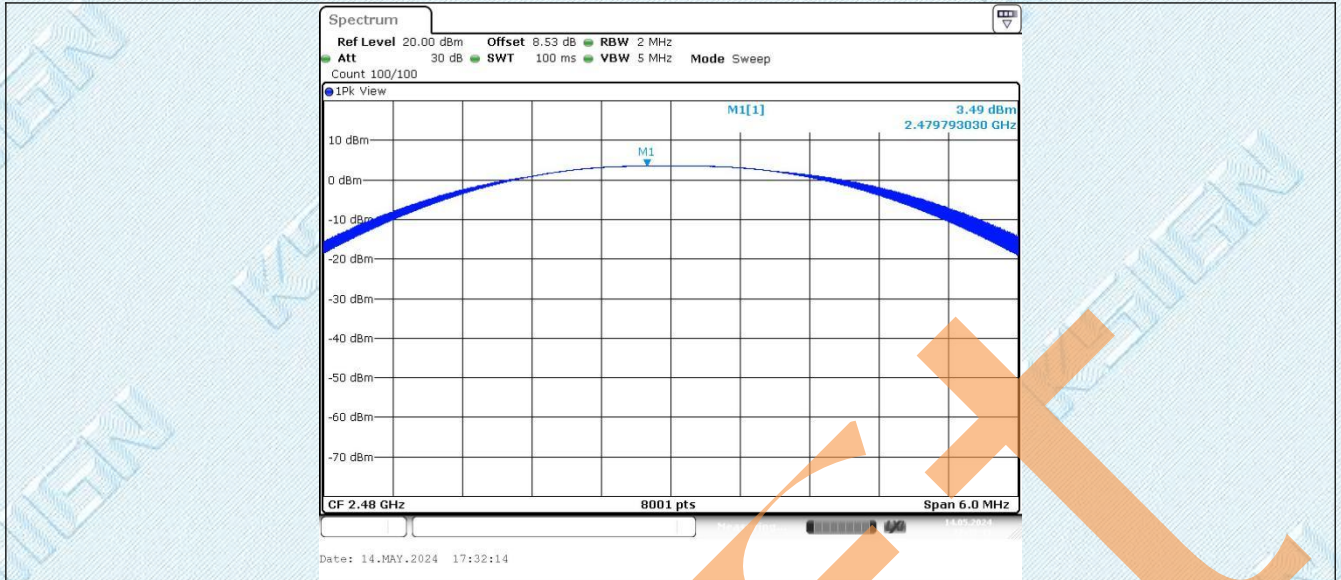
6.3.2. Test Graphs Peak



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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TRF RF_R1

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6.4. Appendix D: Maximum power spectral density

6.4.1. Test Result

| TestMode | Antenna | Freq[MHz] | Result[dBm/3kHz] | Limit[dBm/3kHz] | Verdict |
|----------|---------|-----------|------------------|-----------------|---------|
| BLE_1M | Ant1 | 2402 | -12.18 | ≤8.00 | PASS |
| | | 2440 | -12.47 | ≤8.00 | PASS |
| | | 2480 | -12.79 | ≤8.00 | PASS |

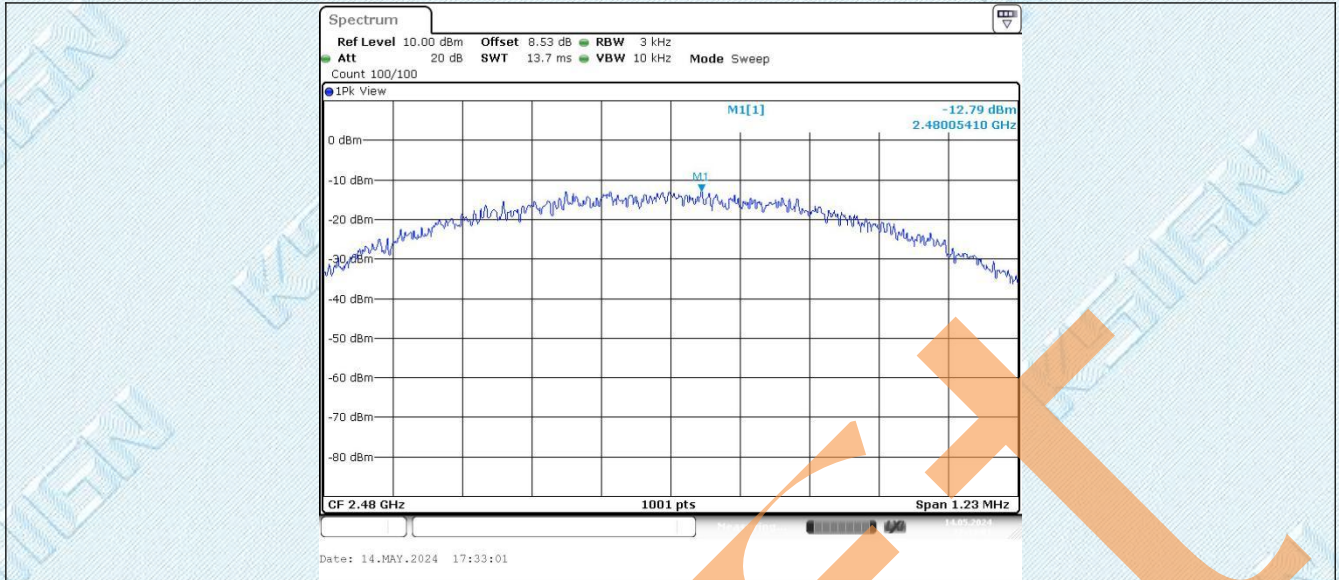
6.4.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.5. ppendix E: Reference level measurement

6.5.1. Test Result

| TestMode | Antenna | Freq[MHz] | Max.Point[MHz] | Result[dBm] |
|----------|---------|-----------|----------------|-------------|
| BLE_1M | Ant1 | 2402 | 2402.23 | 3.76 |
| | | 2440 | 2440.23 | 3.59 |
| | | 2480 | 2480.23 | 3.41 |

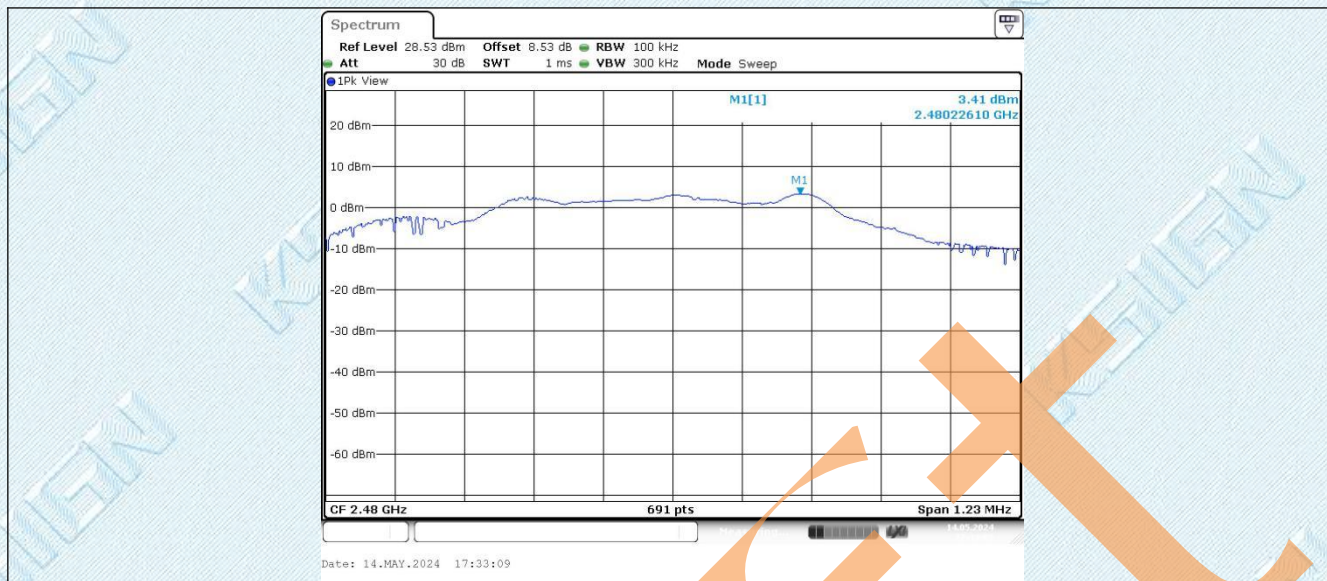
6.5.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

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6.6. Appendix F: Band edge measurements

6.6.1. Test Result

| TestMode | Antenna | ChName | Freq[MHz] | RefLevel[dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|--------|-----------|---------------|-------------|------------|---------|
| BLE_1M | Ant1 | Low | 2402 | 3.76 | -41.5 | ≤-16.24 | PASS |
| | | High | 2480 | 3.41 | -40.89 | ≤-16.59 | PASS |

6.6.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

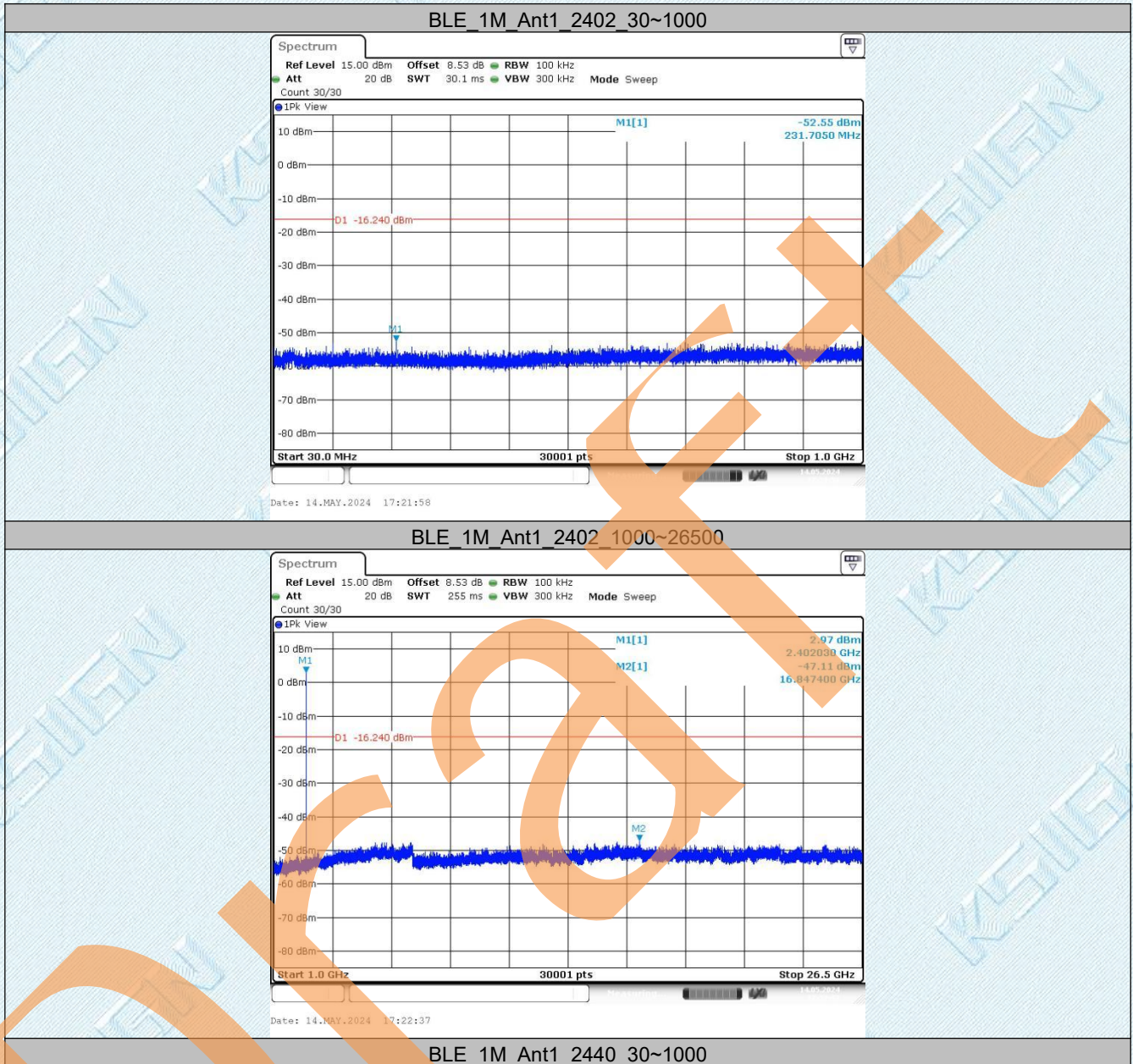
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6.7. Appendix G: Conducted Spurious Emission

6.7.1. Test Result

| TestMode | Antenna | Freq[MHz] | FreqRange [MHz] | RefLevel [dBm] | Result[dBm] | Limit[dBm] | Verdict |
|----------|---------|-----------|-----------------|----------------|-------------|------------|---------|
| BLE_1M | Ant1 | 2402 | 30~1000 | 3.76 | -52.55 | ≤-16.24 | PASS |
| | | | 1000~26500 | 3.76 | -47.11 | ≤-16.24 | PASS |
| | | 2440 | 30~1000 | 3.59 | -52.1 | ≤-16.41 | PASS |
| | | | 1000~26500 | 3.59 | -47.25 | ≤-16.41 | PASS |
| | | 2480 | 30~1000 | 3.41 | -52.46 | ≤-16.59 | PASS |
| | | | 1000~26500 | 3.41 | -46.67 | ≤-16.59 | PASS |

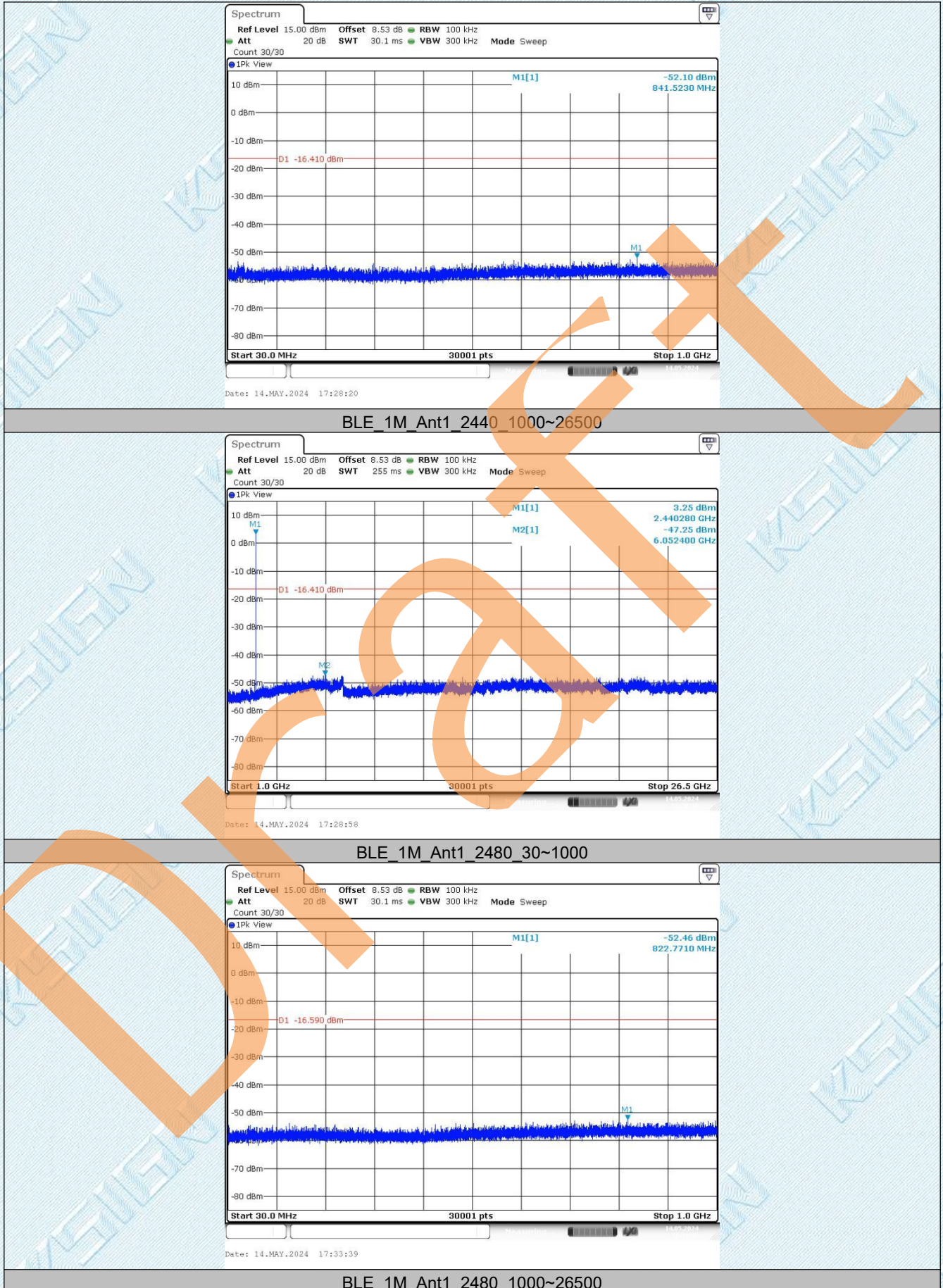
6.7.2. Test Graphs



TRF RF_R1

Add: West Side of 1/F., Building C, Zone A, Fuyuan New Factory, Jiujiu Industrial Park, Minzhu, Shatou, Shajing, Bao'an District, Shenzhen, Guangdong, China

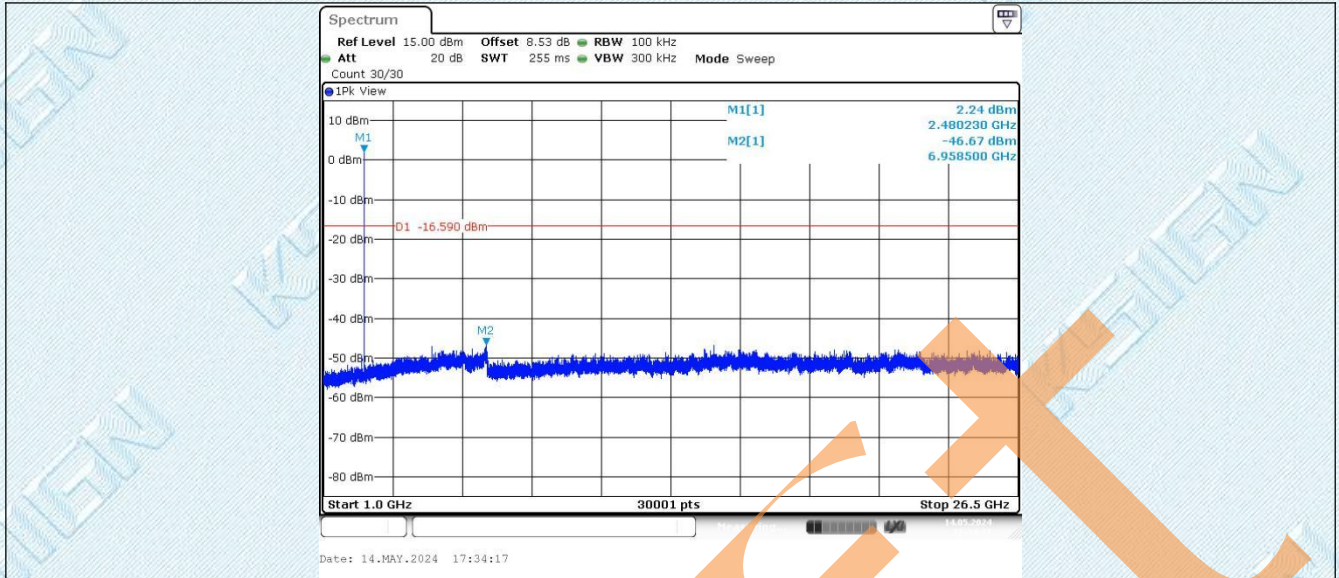
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6.8. Appendix H: Duty Cycle

6.8.1. Test Result

| TestMode | Antenna | Freq[MHz] | ON Time [ms] | Period [ms] | DC [%] | Limit | Verdict |
|----------|---------|-----------|-----------------|----------------|--------|-------|---------|
| BLE_1M | Ant1 | 2402 | 2.16 | 2.50 | 86.40 | --- | PASS |
| | | 2440 | 2.16 | 2.50 | 86.40 | --- | PASS |
| | | 2480 | 2.16 | 2.50 | 86.40 | --- | PASS |

DC=ON Time/Period*100%

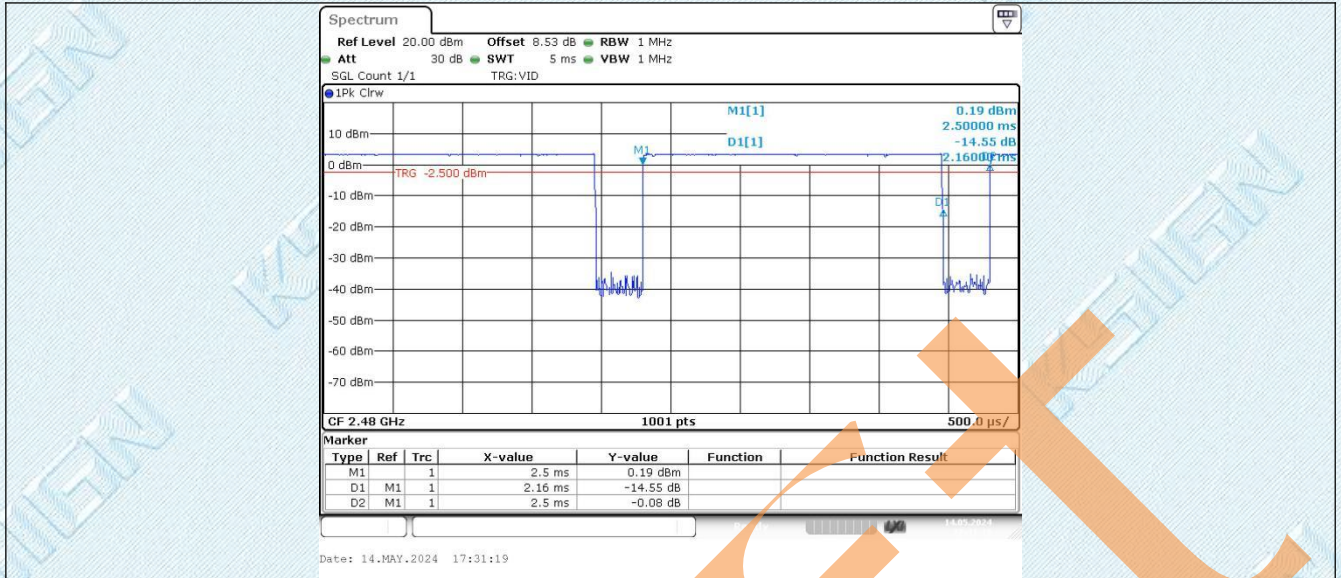
6.8.2. Test Graphs



TRF RF_R1

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--THE END--

TRF RF_R1

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