

FCC - TEST REPORT

| Report Number | 709502301091-00B Date of Issue: April 14, 2023 |
|-------------------------------------|---|
| Model | RC4733301/01BRP, RC473XXXX/XXRP, RC473XXXX/XXBRP : ("X"=0-9,"B" means packed with battery) |
| Product Type | Remote control |
| Applicant | HCS (Suzhou) Limited |
| Address | 19F-20F, Building B-3rd, No.209 Zhuyuan Road, New District, Suzhou, P.R.China |
| Factory | Himit (Yueyang) Technology Ltd. |
| Address | Building 4, Lingang High-tech Industrial Park, Yueyang Area, China (Hunan) Free Trade Pilot Zone |
| Test Result | ■ Positive 	□ Negative |
| Total pages including Appendices | 23 |

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2 Details about the Test Laboratory

Details about the Test Laboratory

Test Site 1

| Company name: | TÜV SÜD Certification and Testing (China) Co., Ltd. Shanghai Branch No.16 Lane, 1951 Du Hui Road, Shanghai 201108, P.R. China |
|--|--|
| Test Firm FCC Registration Number: | 820234 |
| Designation number: | CN1183 |
| IC Company Number: | 25988 |
| CAB identifier: | CN0101 |
| Telephone: Fax: | +86 21 6141 0123 +86 21 6140 8600 |



3 Description of the Equipment Under Test

| Product: | Remo | Remote control | | | | | | | |
|----------------------------|--------------------------|--|----|----------|----|----------|----|----------|--|
| PMN / HVIN / Model no.: | | RC4733301/01BRP, RC473XXXX/XXRP,RC473XXXX/XXBRP ("X"=0-9,"B" means packed with battery) | | | | | | | |
| FCC ID: | 2AGC | OFRC473A | | | | | | | |
| Rating: | 3V D(| C | | | | | | | |
| RF Transmission Frequency: | Bluet | Bluetooth LE:2402~2480MHz | | | | | | | |
| No. of Operated Channel: | Bluet | Bluetooth LE: 40 | | | | | | | |
| Modulation: | For 2.4GHz BLE: GFSK | | | | | | | | |
| Channel list: | Divete eth Levy Freezery | | | | | | | | |
| | Bluetooth Low Energy | | | | | | | | |
| | Ch | Fre(MHz) | Ch | Fre(MHz) | Ch | Fre(MHz) | Ch | Fre(MHz) | |

| | | | Diactootin | | | | |
|----|----------|----|------------|----|----------|----|----------|
| Ch | Fre(MHz) | Ch | Fre(MHz) | Ch | Fre(MHz) | Ch | Fre(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 |
| З | 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 |

Antenna Type: PCB mono-pole antenna for BLE

Antenna Gain: For 2.4GHz: 0 dBi

Description of the EUT: The Equipment Under Test (EUT) is a Remote control which have 2.4GHz BLE (support 1Mbps data rate).

The sample's mentioned in this report is/are submitted/ supplied/ manufactured by client. The laboratory therefore assumes no responsibility for accuracy of information on the brand name, model number, origin of manufacture, consignment, antenna gain or any information supplied.



4 Summary of Test Standards

| Test Standards | | | | |
|---|-----------------------------------|--|--|--|
| FCC Part 15 Subpart C PART 15 - RADIO FREQUENCY DEVICES | | | | |
| | Subpart C - Intentional Radiators | | | |

All the test methods were according to ANSI C63.10-2013.



5 Summary of Test Results

| | Technical Require | ements | | |
|---|--|--------|------------|-------------------|
| FCC Part 15 Su | lbpart C | | | |
| Test Condition | | Pages | Test Site | Test Result |
| §15.207 | Conducted emission AC power port | N/A | N/A | Not Applicable |
| §15.249(a) | Field Strength of the Fundamental Signal | 14-15 | Site 1 | Pass |
| §15.205(a), §15.209(a), §15.249(a), §15.249(c) | Radiated Spurious Emissions and Band-edge | 12-15 | Site 1 | Pass |
| §15.215(c) | 20dB bandwidth | 17-19 | Site 1 | Pass |
| §15.203 | Antenna requirement | | See Note 2 | Pass |

Note 1: N/A – Not Applicable. Conducted emission is not apply for battery operated device. Note 2: The EUT uses an PCB dipole Antenna, which gain is 0 dBi. In accordance to §15.203, It is considered sufficiently to comply with the provisions of this section.



6 General Remarks

Remarks

This submittal(s) (test report) is intended for FCC ID: 2AGOFRC473A complies with Section 15.205, 15.209, 15.249 of the FCC Part 15, Subpart C Rules.

All models are identical in electrical structure, mechanical, PCB and RF performance. There are only cosmetic differences (color/painting/printed). We chose model RC4733301/01BRP to perform test and listed the worst data in this report.

This report is for the 2.4GHz BLE test report.

SUMMARY:

All tests according to the regulations cited on page 5 were

- Performed
- □ Not Performed

The Equipment Under Test

- - Fulfills the general approval requirements.
- □ **Does not** fulfill the general approval requirements.

Sample Received Date:March 1, 2023Testing Start Date:March 3, 2023Testing End Date:April 14, 2023

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7 Systems test configuration

Auxiliary Equipment Used during Test:

| DESCRIPTION | MANUFACTURER | MODEL NO.(SHIELD) | S/N(LENGTH) |
|-------------|--------------|-------------------|-----------------|
| Notebook | Lenove | E470 | PF-OU5TS7 17/09 |

Test software: RTL8762x_RFTestTool_v1.0.1.7.

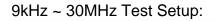
The system was configured to channel 0, 19, and 39 for the test.

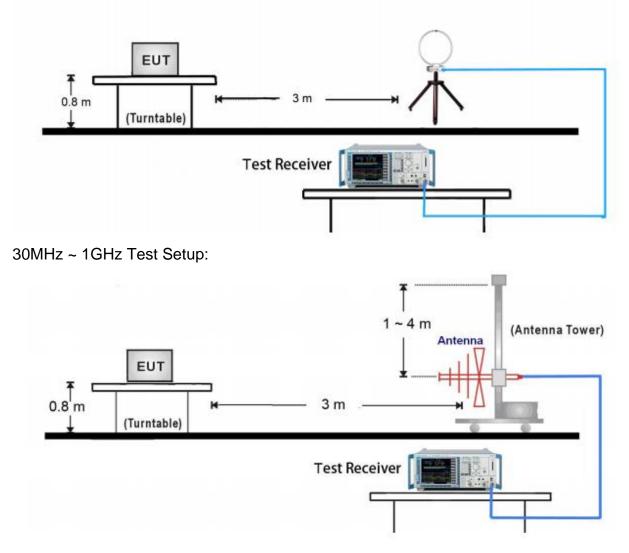
Non-hopping mode: The system was configured to operate at a signal channel transmitting. The test software allows the configuration and operation at the worst-case duty and the highest transmit power.



8 Test setups

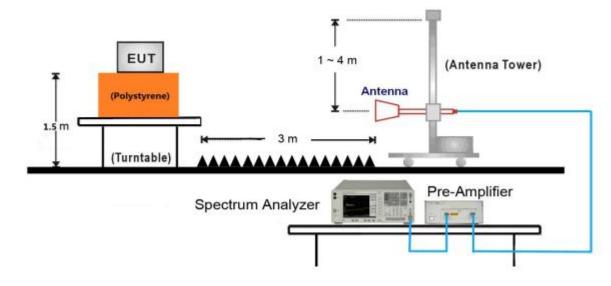
8.1 Radiated test setups



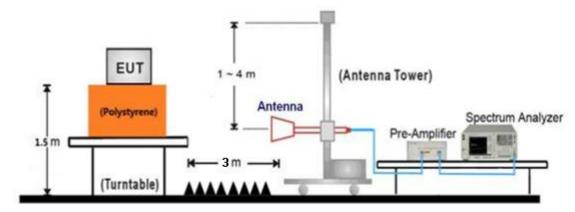




1GHz ~ 18GHz Test Setup:







9 Technical Requirement

9.1 Field Strength of the Fundamental Signal, Radiated Spurious Emissions and Band-edge

Test Method

- 1. The EUT is placed on a turntable, which is 0.8m above ground plane.
- 2. EUT is set 3m away from the receiving antenna, which is varied from 1m to 4m to find out the highest emissions.
- Use the following spectrum analyzer settings: Span = wide enough to fully capture the emission being measured ,RBW = 1 MHz for f ≥ 1GHz, 100 kHz for f < 1 GHz, VBW ≥ RBW, Sweep = auto, Detector function = peak, Trace = max hold
- 4. Follow the guidelines in ANSI C63.4-2014 with respect to maximizing the emission by rotating the EUT, adjusting the measurement antenna height and polarization, etc. The peak reading of the emission, after being corrected by the antenna factor, cable loss, pre-amp gain, etc., is the peak field strength, submit this data. Each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 5. Set the VBW to 10 Hz, while maintaining all of the other instrument settings. This peak level, once corrected, must comply with the limit specified in Section 15.209. If the duty cycle per channel of the hopping signal is less than 100 ms, then the reading obtained with the 10 Hz VBW may be further adjusted by a "duty cycle correction factor", derived from 20log(duty cycle/100 ms), in an effort to demonstrate compliance with the 15.209 limit. Submit this data.

Limits

According to §15.249 (a), the field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency | | Field strength of harmonics (microvolts/meter) |
|--------------------------|-----|--|
| 902–928 MHz | 50 | 500 |
| 2400–2483.5 MHz | 50 | 500 |
| 5725–5875 MHz | 50 | 500 |
| 24.0–24.25 GHz | 250 | 2500 |

According to §15.249 (c), Field strength limits are specified at a distance of 3 meters. According to §15.249 (d), Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209, whichever is the lesser attenuation. According to §15.205 and Unwanted emissions falling into restricted bands in §15.205 (a) Table 3 shall comply with the limits specified in §15.209.



30MHz-1GHz:

30-1000MHz Radiated Emission Test

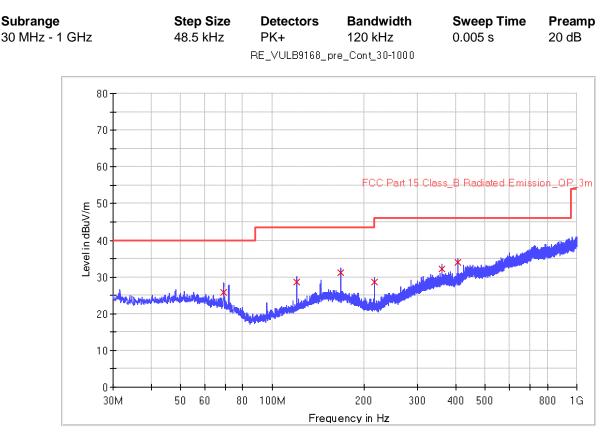
EUT Information

EUT Name: Model: Client: Op Cond: Operator: Test Spec: Comment: Sample No: Remote control RC4733301/01BRP HCS (Suzhou) Limited Power on and Tx, DC 3V, T22.3, H41.7%, P103.4kPa GUO Chengjie FCC Part 15 Horizontal SHA-711193-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated]

| Hardware Setup: |
|-----------------|
| Receiver: |
| Level Unit: |

RE_VULB9168 [ESR 3] dBuV/m



Limit and Margin

| Frequency (MHz) | QuasiPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK (dB) | Limit - QPK (dBuV/m) |
|--------------------|-----------------------|--------------------|--------------------|----------------|-----|------------------|---------------|-------------------------|----------------------------|
| 69.280000 | 25.8 | 1000.0 | 120.000 | 150.0 | Н | 123.0 | 18.7 | 14.2 | 40.0 |
| 120.000000 | 28.7 | 1000.0 | 120.000 | 100.0 | Н | 174.0 | 18.1 | 14.8 | 43.5 |
| 168.000000 | 31.1 | 1000.0 | 120.000 | 123.0 | Н | 142.0 | 20.4 | 12.4 | 43.5 |
| 215.960000 | 28.6 | 1000.0 | 120.000 | 150.0 | Н | 141.0 | 17.5 | 14.9 | 43.5 |
| 360.000000 | 32.3 | 1000.0 | 120.000 | 200.0 | Н | 241.0 | 23.0 | 13.8 | 46.0 |
| 407.960000 | 34.0 | 1000.0 | 120.000 | 110.0 | Н | 153.0 | 24.2 | 12.0 | 46.0 |

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30-1000MHz Radiated Emission Test

EUT Information

| EUT Name: | |
|------------|--|
| Model: | |
| Client: | |
| Op Cond: | |
| Operator: | |
| Test Spec: | |
| Comment: | |
| Sample No: | |

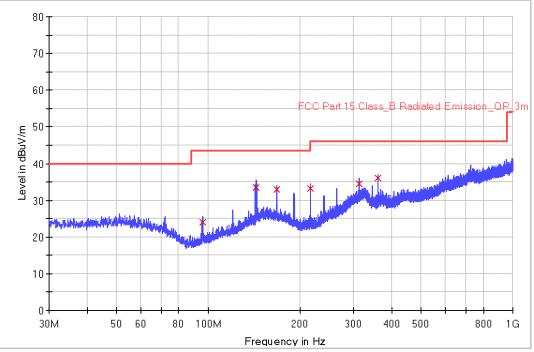
Remote control RC4733301/01BRP HCS (Suzhou) Limited Power on and Tx, DC 3V, T22.3, H41.7%, P103.4kPa GUO Chengjie FCC Part 15 Vertical SHA-711193-1

Sweep Setup: RE_VULB9168_pre_Cont_30-1000 [EMI radiated] Hardware Setup: RE_VULB9168

| Hardware Setup: | |
|-----------------|--|
| Receiver: | |
| Level Unit: | |

RE_VULB9168 [ESR 3] dBuV/m

| Subrange | Step Size | Detectors | Bandwidth | Sweep Time | Preamp |
|-----------------|------------------|------------------|------------------|-------------------|---------------|
| 30 MHz - 1 GHz | 48.5 kHz | PK+ | 120 kHz | 0.005 s | 20 dB |
| | I | RE_VULB9168_pro | ∋_Cont_30-1000 | | |



Limit and Margin

| Frequer (MHz) | - | QuasiPeak (dBuV/m) | Meas. Time (ms) | Bandwidth (kHz) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB) | Margin - QPK | Limit - QPK |
|------------------|-------|-----------------------|--------------------|--------------------|----------------|-----|------------------|---------------|-----------------|----------------|
| | | | | | | | | | (dB) | (dBuV/m) |
| 95.80 | 00000 | 24.0 | 1000.0 | 120.000 | 123.0 | V | 121.0 | 15.6 | 19.5 | 43.5 |
| 143.72 | 20000 | 33.5 | 1000.0 | 120.000 | 150.0 | V | 114.0 | 20.6 | 10.1 | 43.5 |
| 168.00 | 00000 | 33.0 | 1000.0 | 120.000 | 110.0 | V | 214.0 | 20.4 | 10.5 | 43.5 |
| 216.00 | 00000 | 33.3 | 1000.0 | 120.000 | 140.0 | V | 135.0 | 17.5 | 12.7 | 46.0 |
| 311.96 | 60000 | 34.6 | 1000.0 | 120.000 | 200.0 | V | 136.0 | 21.9 | 11.4 | 46.0 |
| 360.00 | 00000 | 36.0 | 1000.0 | 120.000 | 130.0 | V | 245.0 | 23.0 | 10.1 | 46.0 |



Above 1GHz:

Tx at channel 1: 2402MHz

| Antenna polarization | Frequency (MHz) | Duty Cycle Factor(dB) | Corrected Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-------------------------|--------------------|--------------------------|----------------------------------|-------------------|----------------|----------|
| Н | 2402.20 | 0 | 87.71 | 114 | 26.29 | PK |
| Н | 2402.20 | -4.15 | 83.56 | 94 | 10.44 | AV |
| V | 2402.26 | 0 | 94.42 | 114 | 19.58 | PK |
| V | 2402.26 | -4.15 | 90.27 | 94 | 3.73 | AV |
| Н | 2390.99 | 0 | 42.66 | 74 | 31.34 | PK |
| V | 2390.46 | 0 | 42.06 | 74 | 31.94 | PK |
| Н | 4804.50 | 0 | 54.22 | 74 | 19.78 | PK |
| Н | 4804.50 | -4.15 | 50.07 | 54 | 3.93 | AV |
| Н | 7205.00 | 0 | 48.43 | 74 | 25.57 | PK |
| Н | 7205.00 | -4.15 | 44.28 | 54 | 9.72 | AV |
| V | 4804.00 | 0 | 52.96 | 74 | 21.04 | PK |
| V | 4804.00 | -4.15 | 48.81 | 54 | 5.19 | AV |
| V | 7205.50 | 0 | 47.33 | 74 | 26.67 | PK |
| V | 7205.50 | -4.15 | 43.18 | 54 | 10.82 | AV |

Tx at channel 19: 2440MHz

| Antenna polarization | Frequency (MHz) | Duty Cycle Factor(dB) | Corrected Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-------------------------|--------------------|--------------------------|----------------------------------|-------------------|----------------|----------|
| н | 2439.80 | 0 | 81.41 | 114 | 32.59 | PK |
| н | 2439.80 | -4.15 | 77.26 | 94 | 16.74 | AV |
| V | 2440.26 | 0 | 94.37 | 114 | 19.63 | PK |
| V | 2440.26 | -4.15 | 90.22 | 94 | 3.78 | AV |
| н | 4880.50 | 0 | 58.02 | 74 | 15.98 | PK |
| н | 4880.50 | -4.15 | 53.87 | 54 | 0.13 | AV |
| V | 4879.50 | 0 | 56.84 | 74 | 17.16 | РК |
| V | 4879.50 | -4.15 | 52.69 | 54 | 1.31 | AV |



| Antenna polarization | Frequency (MHz) | Duty Cycle Factor(dB) | Corrected Reading (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Detector |
|-------------------------|--------------------|--------------------------|----------------------------------|-------------------|----------------|----------|
| н | 2479.73 | 0 | 80.56 | 114 | 33.44 | РК |
| н | 2479.73 | -4.15 | 76.41 | 94 | 17.59 | AV |
| V | 2479.86 | 0 | 92.96 | 114 | 21.04 | PK |
| V | 2479.86 | -4.15 | 88.81 | 94 | 5.19 | AV |
| Н | 2483.5 | 0 | 38.41 | 74 | 35.59 | PK |
| V | 2483.71 | 0 | 40.08 | 74 | 33.92 | PK |
| н | 4959.5 | 0 | 51.66 | 74 | 22.34 | PK |
| н | 4959.5 | -4.15 | 47.51 | 54 | 6.49 | AV |
| V | 4960.5 | 0 | 58.01 | 74 | 14.46 | РК |
| V | 4960.5 | -4.15 | 53.86 | 54 | 0.14 | AV |

Tx at channel 39: 2480MHz

According to C63.10, if the peak (or quasi-peak) measured value complies with the average limit, it is unnecessary to perform an average measurement, so AV emission value did not show in below table if the peak value complies with average limit.

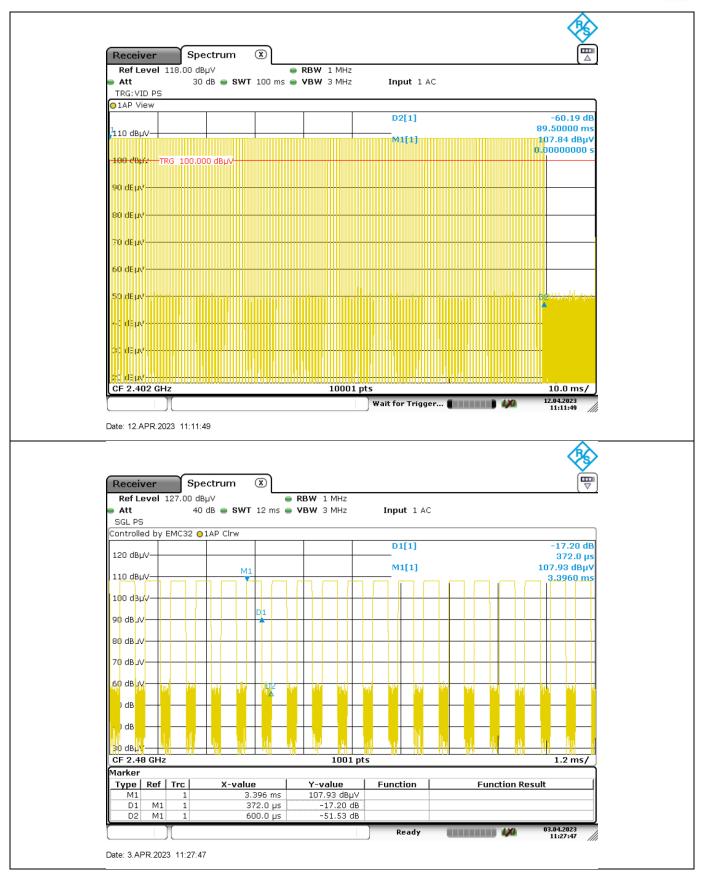
The only worse case test result is listed in the report.

Remark:

- Above 1GHz: Corrector factor = Antenna Factor + Cable Loss- Pre-amplifier Below 1GHz: Corrector factor = Antenna Factor + Cable Loss Emission Level =Reading level +Correction Factor (The Reading Level is recorded by software which is not shown in the sheet)
- 2) If the Peak value below the AV Limit, the AV test doesn't perform for this submission.
- 3) The test trace is same as the ambient noise and the amplitude of the emissions are attenuated more than 20dB below the permissible (the test frequency range: 9kHz ~ 30MHz, 18GHz ~ 25GHz), therefore no data appear in the report.
- 4) Average= Peak+ Duty Cycle factor.

TX Duty cycle: 372us / 600 us = 62 %. Duty Cycle Factor =20log (Duty Cycle) = 20 * Log10(0.62) = -4.15 db.





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9.2 20dB Bandwidth

Test Method

- 1. Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- 2. Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- 3. Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.

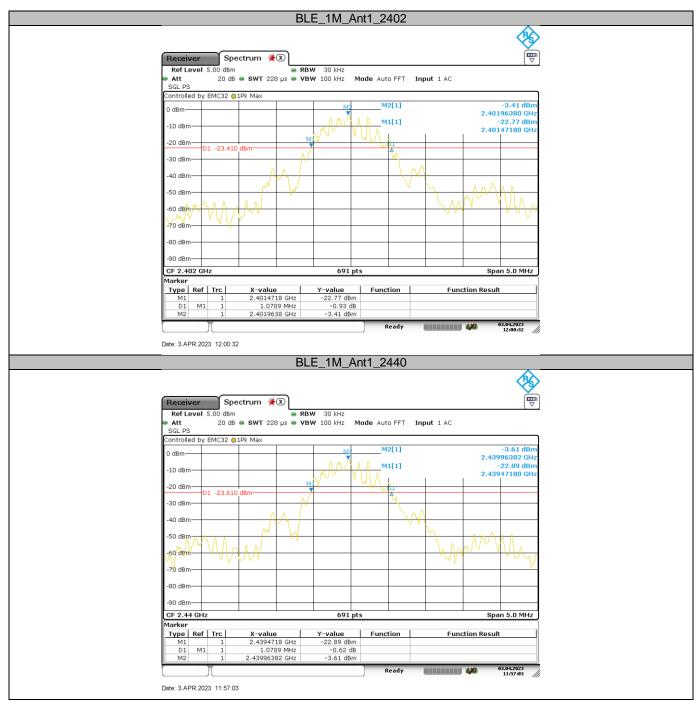
Limits:

According to 15.215 (c) Intentional radiators operating under the alternative provisions to the general emission limits, as contained in § 15.217 through 15.257 and in Subpart E of this part, must be designed to ensure that the 20 dB bandwidth of the emission, or whatever bandwidth may otherwise be specified in the specific rule section under which the equipment operates, is contained within the frequency band designated in the rule section under which the equipment is operated. The requirement to contain the designated bandwidth of the emission within the specified frequency band includes the effects from frequency sweeping, frequency hopping and other modulation techniques that may be employed as well as the frequency stability of the transmitter over expected variations in temperature and supply voltage. If a frequency stability is not specified in the regulations, it is recommended that the fundamental emission be kept within at least the central 80% of the permitted band in order to minimize the possibility of out-of-band operation.



20dB Bandwidth

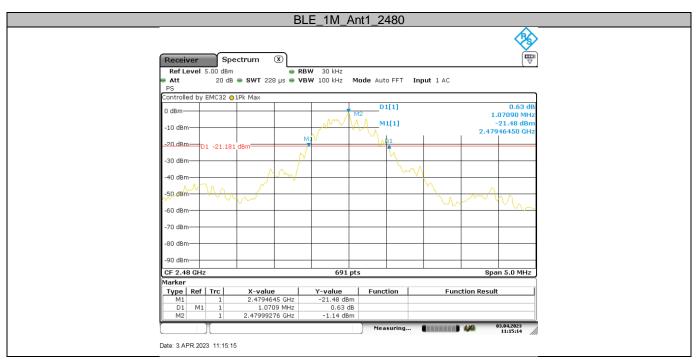
| Frequency MHz | 20dB Bandwidth MHz | Result |
|------------------|-----------------------|--------|
| 2402 | 1.0709 | Pass |
| 2440 | 1.0709 | Pass |
| 2480 | 1.0709 | Pass |



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10 Test equipment list

| List of Test Instruments Test Site1 | | | | | | |
|--|--|-----------------|-----------------|------------|-----------|------------------|
| | DESCRIPTION | MANUFACTURER | MODEL NO. | SERIAL NO. | CAL. DATE | CAL. DUE DATE |
| | EMI Test Receiver | Rohde & Schwarz | ESR3 | 101906 | 2022-8-1 | 2023-7-31 |
| | Signal Analyzer | Rohde & Schwarz | FSV40 | 101091 | 2022-8-1 | 2023-7-31 |
| | Trilog Super Broadband Test Antenna | Schwarzbeck | VULB 9168 | 961 | 2019-9-23 | 2024-9-22 |
| | Horn Antenna | Rohde & Schwarz | HF907 | 102393 | 2021-3-15 | 2024-3-14 |
| | Pre-amplifier | Rohde & Schwarz | SCU-18D | 19006451 | 2022-8-1 | 2023-7-31 |
| RE | Loop antenna | Rohde & Schwarz | HFH2-Z2 | 100443 | 2022-6-13 | 2023-6-12 |
| | DOUBLE-RIDGED WAVEGUIDE HORN WITH PRE-AMPLIFIER (18 GHZ - 40 GHZ) | ETS-Lindgren | 3116C-PA | 002222727 | 2020-9-23 | 2023-9-22 |
| | 3m Semi-anechoic chamber | TDK | 9X6X6 | | 2021-5-8 | 2024-5-7 |
| | | Measurement S | Software Inform | ation | | |
| Test Item | Software | Manufacturer | | Ver | sion | |
| RE | EMC 32 | Rohde & Schwarz | | V10. | 50.40 | |



11 System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

| Items | Extended Uncertainty |
|---|--|
| Conducted Disturbance at Mains Terminals | 150kHz to 30MHz, LISN, 3.16dB |
| Radiated Disturbance | 30MHz to 1GHz, 5.03dB (Horizontal) 5.12dB (Vertical) 1GHz to 18GHz, 5.49dB 18GHz to 40GHz, 5.63dB |
| Carrier power conducted measurement | 50MHz~18GHz, 1.238dB |
| Spurious Emission Conducted Measurement | 9kHz ~40GHz, 1.224dB |

Measurement Uncertainty Decision Rule:

Determination of conformity with the specification limits is based on the decision rule according to IEC Guide 115: 2021, clause 4.4.3 and 4.5.1.



12 Photographs of Test Set-ups

Refer to the < Test Setup photos >.



13 Photographs of EUT

Refer to the < External Photos > & < Internal Photos >.

-----End of Test Report------