

Test Report

Verified code: 782734

Report No.: E20230717807601-2

Customer: Faurecia Clarion Electronics (Xiamen) Co., Ltd.

Address: 6F, No. 40, Guanri Road, Software Park Stage II, Xiamen City, Fujian Province, P.R. China

Sample Name: RN WCBS

Sample Model: Z0003NI

Receive Sample Date: Jul. 25, 2023

Test Date: Aug. 02, 2023 ~ Aug. 28, 2023

Reference Document: CFR 47, FCC Part 15 Subpart C

Test Result: Pass

Prepared by: Wen Wenwen
Wen Wenwen

Reviewed by: Jiang Tao
Jiang Tao

Approved by: Xiao Liang
Xiao Liang

GRG METROLOGY & TEST GROUP CO., LTD.

Issued Date: 2023-10-26

GRG METROLOGY & TEST GROUP CO., LTD.

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REPORT ISSUED HISTORY

| Report Version | Report No. | Description | Compile Date |
|----------------|-------------------|----------------|--------------|
| 1.0 | E20230717807601-2 | Original Issue | 2023-10-25 |

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1. TEST RESULT SUMMARY

| Technical Requirements | | |
|---|----------------------|----------|
| CFR 47, FCC Part 15 Subpart C, ANSI C63.10:2013 | | |
| Item | FCC Standard Chapter | Result |
| Antenna requirements | §15.203 | Complied |
| Radiated Spurious Emissions | §15.209 & §15.205 | Complied |
| 20dB Bandwidth | §15.215 | Complied |
| AC Conducted Emission | §15.207 | N/A |

Note: The EUT wireless charger antenna is coil antenna, which accordance 15.203 is considered sufficient to comply with the provisions of this section. The EUT is power by battery, the AC conduction emission is not applicant.

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2. GENERAL DESCRIPTION OF EUT

2.1 APPLICANT

Name: Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address: 6F, No. 40, Guanri Road, Software Park Stage II, Xiamen City, Fujian Province, P.R. China

2.2 MANUFACTURER

Name: Faurecia Clarion Electronics (Xiamen) Co., Ltd.
Address: 6F, No. 40, Guanri Road, Software Park Stage II, Xiamen City, Fujian Province, P.R. China

2.3 FACTORY

Name 1: Faurecia Clarion Electronics (Fengcheng) Co. Ltd.
Address 1: No. 12 High-Tech Road, Fengcheng High Technology Industry Park, Yi chun City, Jiangxi Province, P.R. China.
Name 2: ELECTRÓNICA CLARION, S.A. DE C.V.
Address 2: Av. Nueve Oriente No. 3, Col. Zona Industrial Valle de Oro. 76803 – San Juan del Río (Mexico)

2.4 BASIC DESCRIPTION OF EQUIPMENT UNDER TEST

Product Name: RN WCBS
Product Model: Z0003NI
Adding Model: /
Model Difference: /

Trade Name:



Power Supply: DC 9V-16V by battery, typical voltage DC 12V, Rating current $\leq 2.54A$

Frequency Band: 120kHz for wireless charger

Maximum field strength: 58.43dB μ V/m@3m

FCC ID: WY2Z0003NI

Antenna Type: Coil Antenna for wireless charger

Modulation type: FSK for wireless charger

Sample submitting way: ☒ Provided by customer ☐ Sampling

Sample No: E20230717807601-0001

Temperature Range: -30°C ~ +60°C

Hardware version: 285J95096R

Software version: 283H57049R

Note: The basic description of the EUT is provided by the applicant. This report is made Solely on the basis of such data and/or information. We accept no responsibility for the authenticity and completeness of the above data and information and the validity of the results and/or conclusions.

2.5 TEST MODE

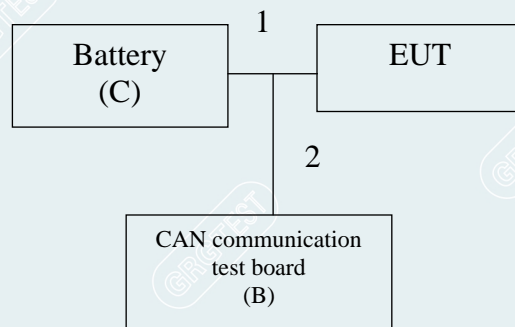
| Mode No. | Description of the modes |
|----------|--|
| Mode 1 | EUT Standby Mode+ CAN communication test board |
| Mode 2 | EUT charging mode + RX load(5W)+ CAN communication test board |
| Mode 3 | EUT charging mode + RX load(10W)+ CAN communication test board |
| Mode 4 | EUT charging mode + RX load(15W)+ CAN communication test board |

Note:

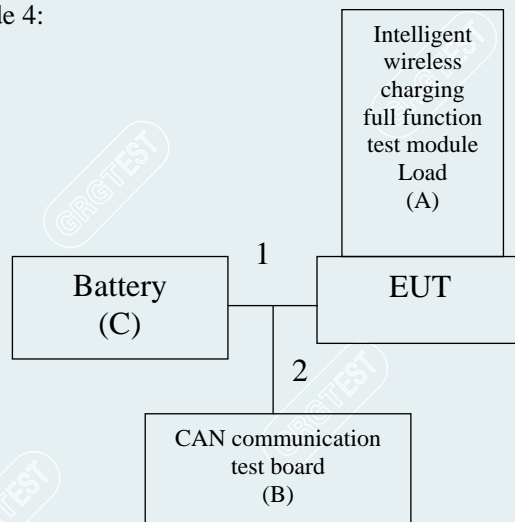
- 1.EUT does not support 7.5W function in the Qi protocol of wireless charging systems.
- 2.Wireless charging between EUT and Load is achieved through coil induction coupling without any other communication.

2.6 BLOCK DIAGRAM

Mode 1:



Mode 2 to mode 4:



2.7 LOCAL SUPPORTIVE INSTRUMENTS

| No. | Name of Equipment | Manufacturer | Model | Serial Number |
|-----|--|--------------|--------------|----------------|
| A | Intelligent wireless charging full function test module Load | / | / | / |
| B | CAN communication test board | / | HBHQ-TEST-01 | 700009064 |
| C | Battery | / | L2-400 | D8J16H288-0610 |

| No. | Cable Type | Qty. | Shielded Type | Ferrite Core(Qty.) | Note |
|-----|------------|------|---------------|--------------------|-----------------|
| 1 | DC Cable | 1 | No | 0 | Unshielded 1.0m |
| 2 | DC Cable | 1 | No | 0 | Unshielded 1.0m |

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3. LABORATORY AND MEASUREMENT UNCERTAINTY

3.1 LABORATORY

The tests & measurements refer to this report were performed by Shenzhen EMC Laboratory of GRG METROLOGY & TEST GROUP CO., LTD.

Add : No.1301 Guanguang Road Xinlan Community, Guanlan Street, Longhua District
Shenzhen, 518110, People's Republic of China

P.C. : 518110

Tel : 0755-61180008

Fax : 0755-61180008

3.2 ACCREDITATIONS

Our laboratories are accredited and approved by the following approval agencies according to ISO/IEC 17025.

USA A2LA(Certificate#:2861.01)

The measuring facility of laboratories has been authorized or registered by the following approval agencies.

Canada ISED (Company Number: 24897, CAB identifier:CN0069)

USA FCC (Registration Number: 759402, Designation Number:CN1198)

Copies of granted accreditation certificates are available for downloading from our web site,
<http://www.grgtest.com>

3.3 MEASUREMENT UNCERTAINTY

Where relevant, the following measurement uncertainty levels have been estimated for tests performed on the EUT as specified in CISPR 16-4-2:

| Measurement | Uncertainty |
|--------------|-----------------------|
| RF frequency | 6.00×10^{-6} |
| Humidity | 6.00% |
| Temperature | 2.00°C |

| Measurement | | Frequency | Uncertainty |
|-------------------|------------|----------------|-------------|
| Radiated Emission | Coaxial | 9kHz~30MHz | 4.4dB |
| | Coplanar | 9kHz~30MHz | 4.4dB |
| | Horizontal | 30MHz~200MHz | 4.6dB |
| | Horizontal | 200MHz~1000MHz | 4.8dB |
| | Vertical | 30MHz~200MHz | 4.7dB |
| | Vertical | 200MHz~1000MHz | 4.7dB |

Note: This uncertainty represents an expanded uncertainty expressed at approximately the 95%.

This uncertainty represents an expanded uncertainty factor of $k=2$.

4. LIST OF USED TEST EQUIPMENT AT GRGT

4.1 LIST OF USED TEST EQUIPMENT

| Name of equipment | Manufacturer | Model | Serial number | Calibration due |
|---|-----------------------|-----------------|---------------|-----------------|
| Radiated Spurious Emissions & 20dB Bandwidth | | | | |
| Receiver | R&S | ESR26 | 101758 | 2023-10-27 |
| Spectrum Analyzer | R&S | FSV30 | 104381-rH | 2023-11-17 |
| Loop Antenna | schwarzbeck | FMZB 1513-60 | 1513-60-56 | 2024-07-15 |
| Bi-log Antenna | schwarzbeck | VULB 9160 | VULB9160-3402 | 2023-10-23 |
| Preamplifiers | SHIRONG ELECTRONIC | DLNA-30M1G-G40 | 20200928001 | 2023-08-19 |
| Test Software | Tonscend | JS32-RE/2.5.1.5 | | |

Note: The calibration interval of the test instruments is 12 months. The Preamplifiers frequency range in this report is 30MHz to 1GHz only.

----- The following blanks -----

5. RADIATED SPURIOUS EMISSIONS

5.1 LIMITS

| Frequency (MHz) | Quasi-peak($\mu\text{V/m}$) | Measurement distance(m) | Quasi-peak(dB $\mu\text{V/m}$)@distance 3m |
|-----------------|-------------------------------|-------------------------|---|
| 0.009-0.490 | 2400/F(kHz) | 300 | 128.5~93.8 |
| 0.490-1.705 | 24000/F(kHz) | 30 | 73.8~63 |
| 1.705-30.0 | 30 | 30 | 69.5 |
| 30 ~ 88 | 100 | 3 | 40 |
| 88~216 | 150 | 3 | 43.5 |
| 216 ~ 960 | 200 | 3 | 46 |
| Above 960 | 500 | 3 | 54 |

NOTE: (1) The lower limit shall apply at the transition frequencies.

5.2 TEST PROCEDURES

1) Sequence of testing 9kHz to 30MHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- If the EUT is a floor standing device, it is placed on the ground.
- Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 360 °.
- The antenna height is 1 meter.
- At each turntable position the analyzer sweeps with peak detection to find the maximum of all emissions.

Final measurement:

- Identified emissions during the pre measurement the software maximizes by rotating the turntable position (0 ° to 360 °) and by rotating the elevation axes (0 ° to 360 °).
- The final measurement will be done in the position (turntable and elevation) causing the highest emissions with QP detector.
- The final levels, frequency, measuring time, bandwidth, turntable position, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the pre measurement and the limit will be stored.

2) Sequence of testing 30MHz to 1GHz

Setup:

- The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- If the EUT is a tabletop system, a table with 0.8 m height is used, which is placed on the ground plane.
- If the EUT is a floor standing device, it is placed on the ground plane with insulation between both.

- Auxiliary equipment and cables were positioned to simulate normal operation conditions
- The measurement distance is 3 meter.
- The EUT was set into operation.

Pre measurement:

- The turntable rotates from 0 ° to 360 °.
- The antenna is polarized vertical and horizontal.
- The antenna height changes from 1 to 4 meter.
- At each turntable position, antenna polarization and height the analyzer sweeps three times in peak to find the maximum of all emissions.

Final measurement:

- The final measurement will be performed with minimum the six highest peaks.
- According to the maximum antenna and turntable positions of premeasurement the software maximize the peaks by changing turntable rotates from 0 ° to 360 ° and antenna movement between 1 and 4 meter.
- The final measurement will be done with QP detector with an EMI receiver.
- The final levels, frequency, measuring time, bandwidth, antenna height, antenna polarization, turntable angle, correction factor, margin to the limit and limit will be recorded. Also a plot with the graph of the premeasurement with marked maximum final measurements and the limit will be stored.

MEASURING INSTRUMENTS SETTING

9kHz to 150kHz

| Receiver parameters | Setting |
|---------------------|----------|
| RBW | 200Hz |
| VBW | 200Hz |
| Start frequency | 9kHz |
| Stop frequency | 150kHz |
| Sweep time | Auto |
| Detector | QP |
| Trace mode | Max Hold |

150kHz to 30MHz

| Receiver parameters | Setting |
|---------------------|----------|
| RBW | 9kHz |
| VBW | 10kHz |
| Start frequency | 150kHz |
| Stop frequency | 30MHz |
| Sweep time | Auto |
| Detector | QP |
| Trace mode | Max Hold |

30MHz to 1GHz

| Receiver parameters | Setting |
|---------------------|----------|
| RBW | 100kHz |
| VBW | 300kHz |
| Start frequency | 30MHz |
| Stop frequency | 1GHz |
| Sweep time | Auto |
| Detector | QP |
| Trace mode | Max Hold |

5.3 TEST SETUP

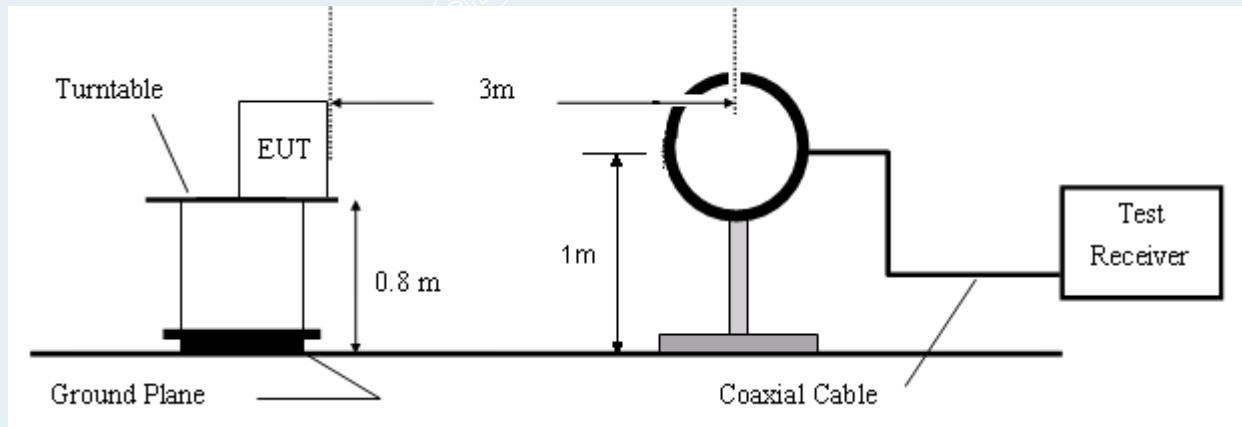


Figure 1. 9kHz to 30MHz radiated emissions test configuration

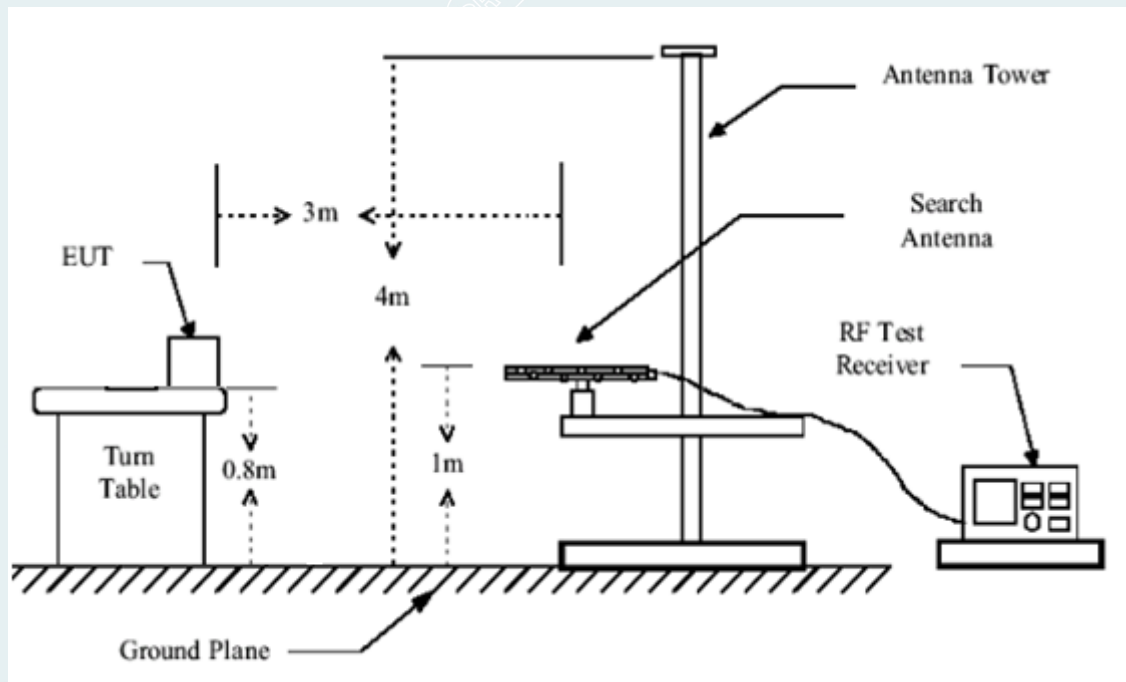


Figure 2. 30MHz to 1GHz radiated emissions test configuration

5.4 DATA SAMPLE

0.009MHz to 30MHz

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | XXX | 28.60 | 50.34 | 21.74 | 112.63 | 62.29 | PK | 100 | 93 | Coplanar | PASS |
| 2 | XXX | 29.88 | 51.89 | 22.01 | 107.25 | 55.36 | PK | 100 | 93 | Coplanar | PASS |

Frequency (MHz)

= Emission frequency in MHz

Ant.Pol. (Coplanar/ Coaxial)

= Antenna polarization

Reading (dBuV/m)

= Uncorrected Analyzer / Receiver reading

Factor (dB)

= Antenna factor + Cable loss – Amplifier gain

Level (dBuV/m)

= Reading (dBuV/m) + Factor (dB)

Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Limit (dBuV/m) – Level (dBuV/m)
 PK = Peak Reading

30MHz to 1GHz

| Suspected Data List | | | | | | | | | | |
|---------------------|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity |
| xxxx | xxxx | 62.87 | 34.23 | -28.64 | 40.00 | 5.77 | PK | 200 | 351 | Horizontal |

| Final Data List | | | | | | | | | |
|-----------------|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|------------|
| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity |
| xxxx | xxxx | -28.64 | 54.02 | 25.38 | 40.00 | 14.62 | 100 | 196 | Horizontal |

Frequency (MHz) = Emission frequency in MHz
 Reading (dBuV/m) = Uncorrected Analyzer / Receiver reading
 Level (dBuV/m) = Reading (dBuV/m) + Factor (dB)
 Limit (dBuV/m) = Limit stated in standard
 Margin (dB) = Limit(dBuV/m)- Level(dBuV/m)
 QP = Quasi-peak Reading

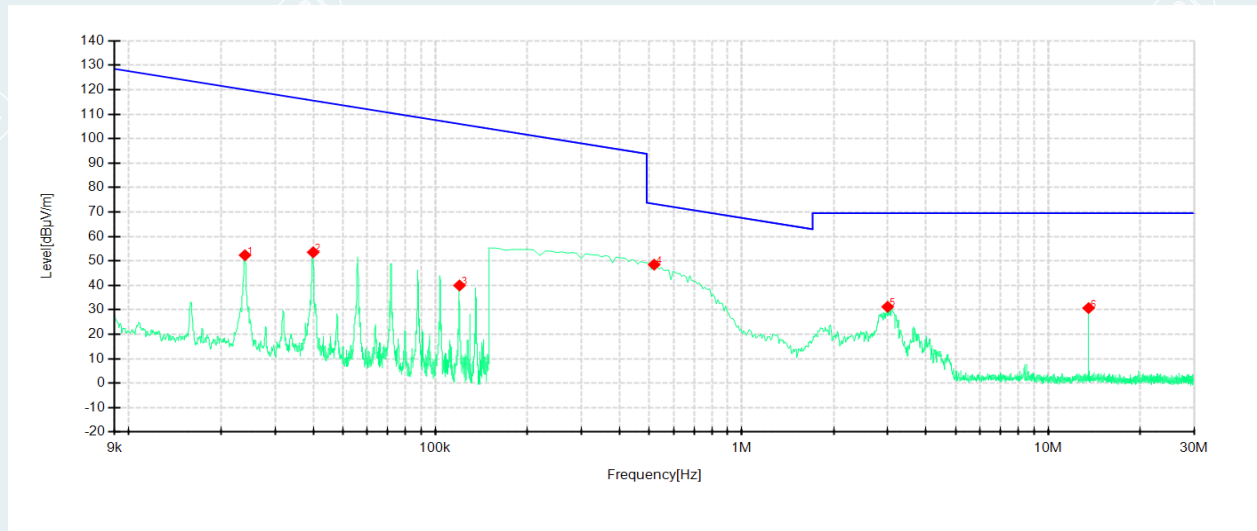
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5.5 TEST RESULTS

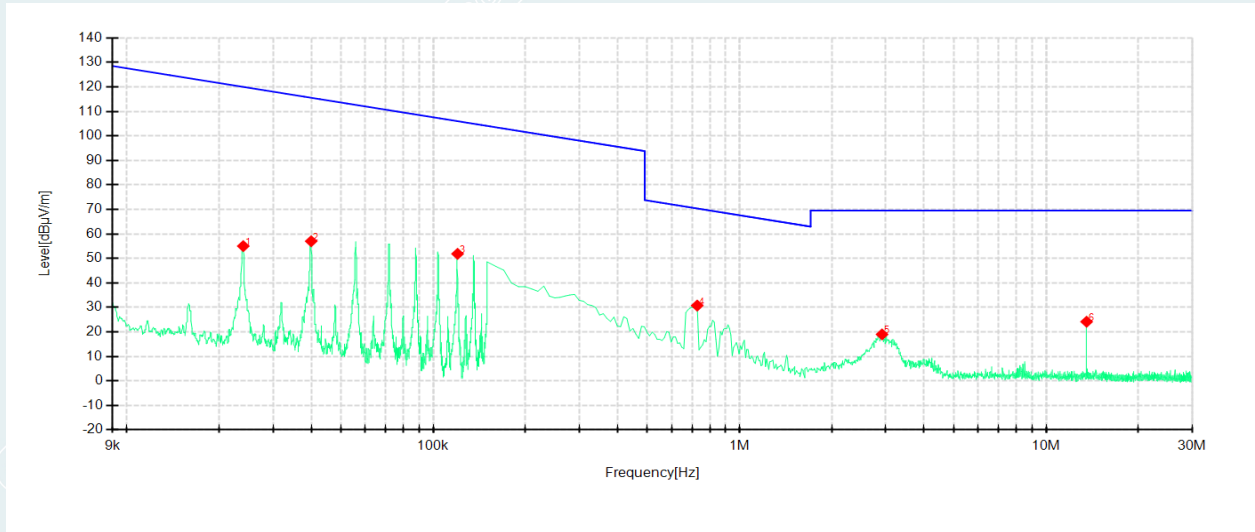
9kHz-30MHz

Note: If the margin of the pre-test results is greater than 6dB, it meets the requirements of quasi peak or average values, and final testing is no longer required.

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 1 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-09 | / | / |



| Suspected Data List | | | | | | | | | | | |
|---------------------|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
| 1 | 0.0239 | 84.12 | 52.33 | -31.79 | 120.02 | 67.64 | PK | 100 | 197 | Coplanar | PASS |
| 2 | 0.0400 | 85.53 | 53.53 | -32.00 | 115.57 | 62.04 | PK | 100 | 74 | Coplanar | PASS |
| 3 | 0.1200 | 71.58 | 39.96 | -31.62 | 106.02 | 66.00 | PK | 100 | 74 | Coplanar | PASS |
| 4 | 0.5182 | 79.61 | 48.47 | -31.14 | 73.31 | 24.84 | PK | 100 | 49 | Coplanar | PASS |
| 5 | 2.9957 | 62.33 | 31.22 | -31.11 | 69.54 | 38.32 | PK | 100 | 15 | Coplanar | PASS |
| 6 | 13.5626 | 61.06 | 30.71 | -30.35 | 69.54 | 38.83 | PK | 100 | 104 | Coplanar | PASS |

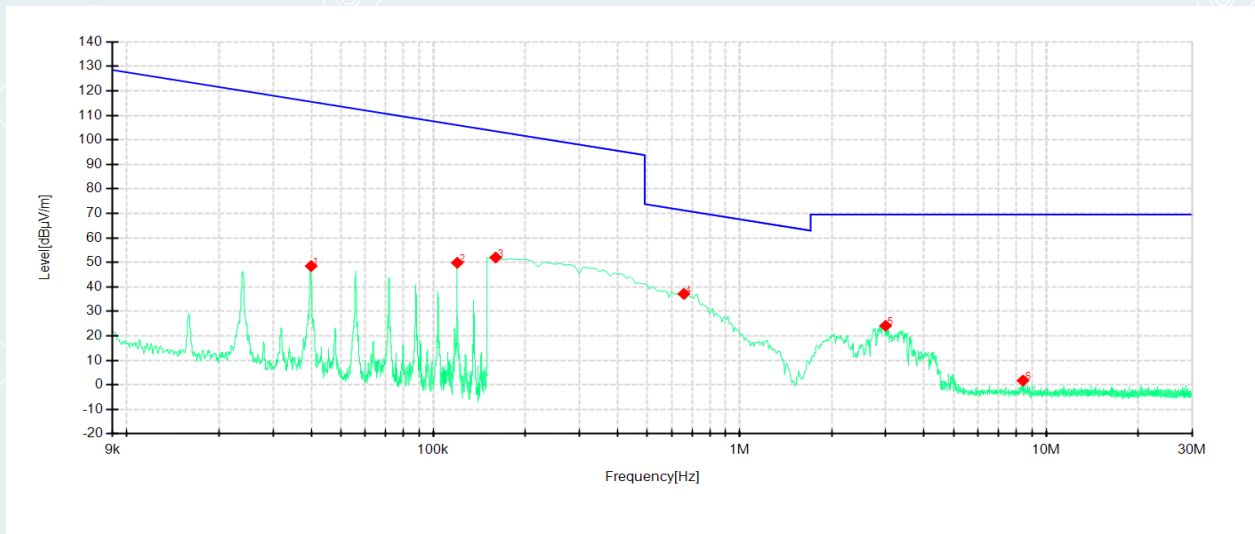


Suspected Data List

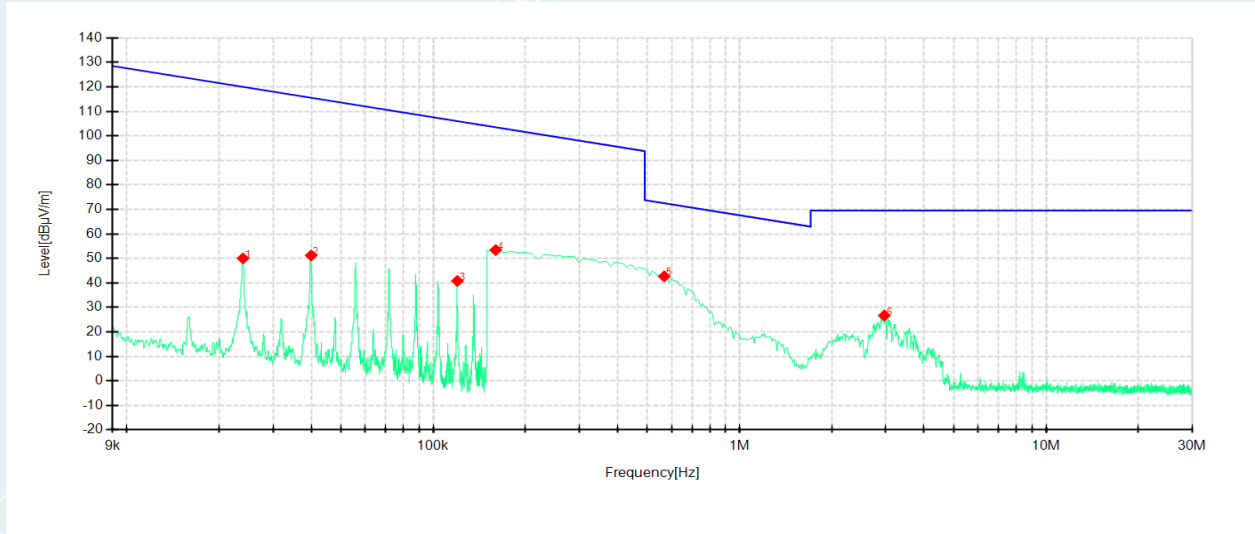
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 0.0240 | 86.81 | 55.02 | -31.79 | 120.00 | 64.98 | PK | 100 | 277 | Coaxial | PASS |
| 2 | 0.0400 | 89.02 | 57.02 | -32.00 | 115.57 | 58.55 | PK | 100 | 35 | Coaxial | PASS |
| 3 | 0.1201 | 83.48 | 51.86 | -31.62 | 106.02 | 54.16 | PK | 100 | 0 | Coaxial | PASS |
| 4 | 0.7271 | 61.91 | 30.74 | -31.17 | 70.37 | 39.63 | PK | 100 | 279 | Coaxial | PASS |
| 5 | 2.9161 | 50.10 | 18.97 | -31.13 | 69.54 | 50.57 | PK | 100 | 222 | Coaxial | PASS |
| 6 | 13.5626 | 54.49 | 24.14 | -30.35 | 69.54 | 45.40 | PK | 100 | 15 | Coaxial | PASS |

----- The following blanks -----

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 2 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-09 | / | / |



| Suspected Data List | | | | | | | | | | | |
|---------------------|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
| 1 | 0.0400 | 80.51 | 48.51 | -32.00 | 115.57 | 67.06 | PK | 100 | 331 | Coplanar | PASS |
| 2 | 0.1198 | 81.45 | 49.83 | -31.62 | 106.03 | 56.17 | PK | 100 | 289 | Coplanar | PASS |
| 3 | 0.1600 | 83.42 | 51.98 | -31.44 | 103.52 | 51.54 | PK | 100 | 76 | Coplanar | PASS |
| 4 | 0.6575 | 68.31 | 37.15 | -31.16 | 71.25 | 34.10 | PK | 100 | 94 | Coplanar | PASS |
| 5 | 2.9957 | 55.25 | 24.14 | -31.11 | 69.54 | 45.40 | PK | 100 | 58 | Coplanar | PASS |
| 6 | 8.4085 | 32.36 | 1.75 | -30.61 | 69.54 | 67.79 | PK | 100 | 29 | Coplanar | PASS |

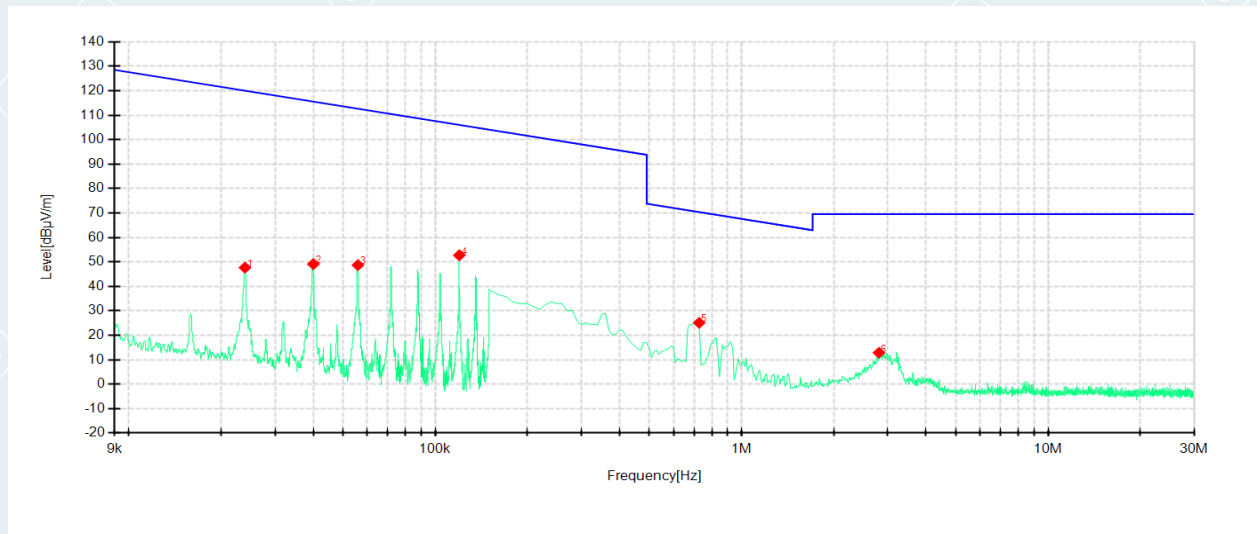


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 0.0239 | 81.80 | 50.01 | -31.79 | 120.02 | 69.98 | PK | 100 | 290 | Coaxial | PASS |
| 2 | 0.0400 | 83.20 | 51.20 | -32.00 | 115.57 | 64.37 | PK | 100 | 103 | Coaxial | PASS |
| 3 | 0.1199 | 72.40 | 40.78 | -31.62 | 106.03 | 65.25 | PK | 100 | 197 | Coaxial | PASS |
| 4 | 0.1600 | 84.84 | 53.40 | -31.44 | 103.52 | 50.12 | PK | 100 | 170 | Coaxial | PASS |
| 5 | 0.5679 | 73.79 | 42.65 | -31.14 | 72.52 | 29.87 | PK | 100 | 157 | Coaxial | PASS |
| 6 | 2.9659 | 57.77 | 26.66 | -31.11 | 69.54 | 42.88 | PK | 100 | 144 | Coaxial | PASS |

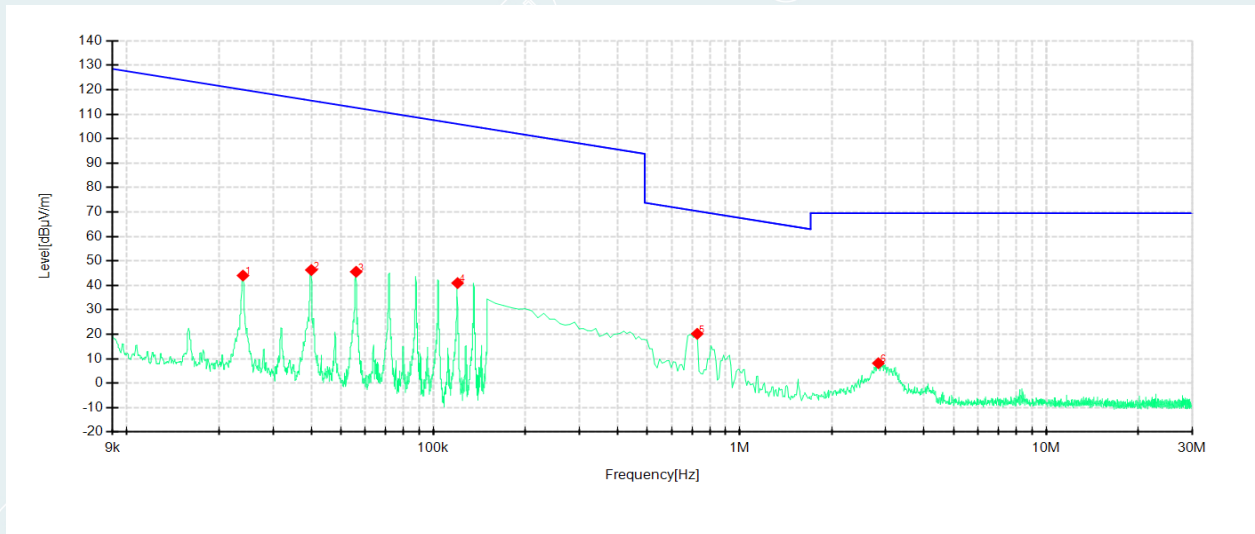
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| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 3 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-09 | / | / |



Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 0.0239 | 79.45 | 47.66 | -31.79 | 120.02 | 72.22 | PK | 100 | 331 | Coplanar | PASS |
| 2 | 0.0400 | 81.12 | 49.12 | -32.00 | 115.56 | 66.21 | PK | 100 | 99 | Coplanar | PASS |
| 3 | 0.0560 | 80.63 | 48.69 | -31.94 | 112.65 | 63.96 | PK | 100 | 73 | Coplanar | PASS |
| 4 | 0.1199 | 84.34 | 52.72 | -31.62 | 106.03 | 53.31 | PK | 100 | 46 | Coplanar | PASS |
| 5 | 0.7271 | 56.28 | 25.11 | -31.17 | 70.37 | 45.26 | PK | 100 | 293 | Coplanar | PASS |
| 6 | 2.8067 | 43.96 | 12.83 | -31.13 | 69.54 | 56.71 | PK | 100 | 360 | Coplanar | PASS |

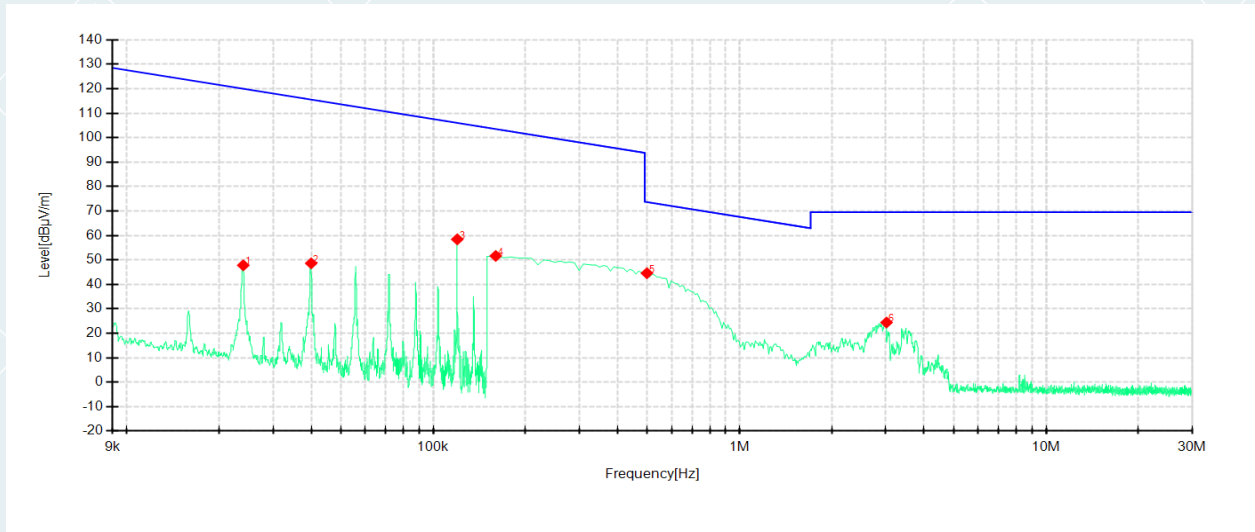


Suspected Data List

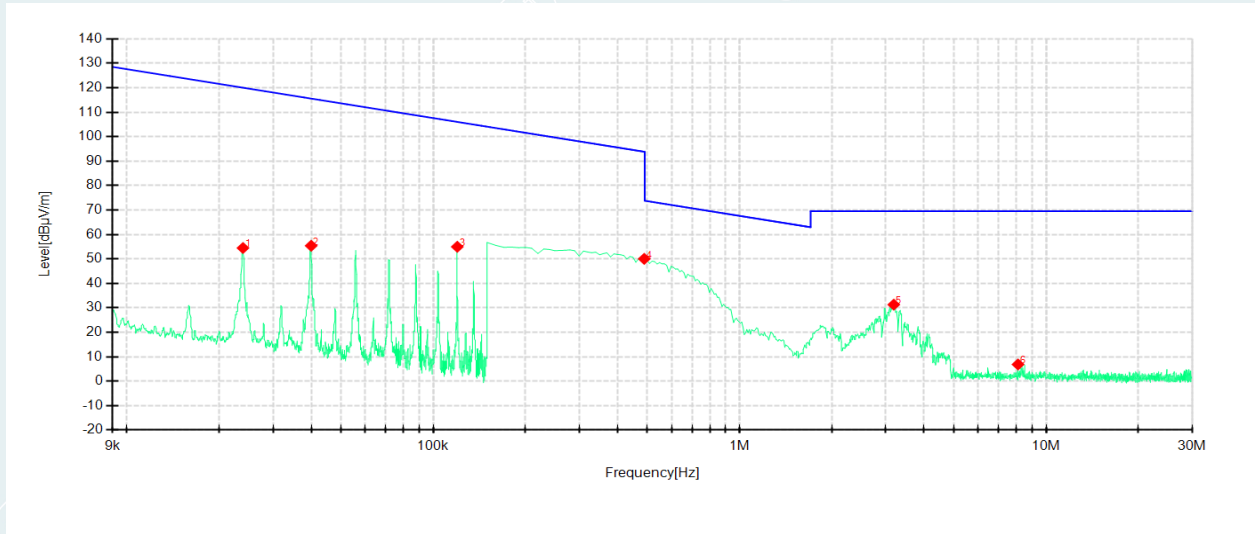
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 0.0239 | 75.80 | 44.01 | -31.79 | 120.02 | 75.85 | PK | 100 | 250 | Coaxial | PASS |
| 2 | 0.0400 | 78.28 | 46.28 | -32.00 | 115.56 | 69.26 | PK | 100 | 6 | Coaxial | PASS |
| 3 | 0.0560 | 77.51 | 45.57 | -31.94 | 112.63 | 66.74 | PK | 100 | 6 | Coaxial | PASS |
| 4 | 0.1201 | 72.55 | 40.93 | -31.62 | 106.01 | 64.68 | PK | 100 | 6 | Coaxial | PASS |
| 5 | 0.7271 | 51.35 | 20.18 | -31.17 | 70.37 | 50.19 | PK | 100 | 299 | Coaxial | PASS |
| 6 | 2.8365 | 39.28 | 8.15 | -31.13 | 69.54 | 61.39 | PK | 100 | 47 | Coaxial | PASS |

----- The following blanks -----

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 4 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-09 | / | / |



| Suspected Data List | | | | | | | | | | | | |
|---------------------|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|--|
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict | |
| 1 | 0.0240 | 79.58 | 47.79 | -31.79 | 120.00 | 72.21 | PK | 100 | 196 | Coplanar | PASS | |
| 2 | 0.0400 | 80.61 | 48.61 | -32.00 | 115.57 | 66.96 | PK | 100 | 87 | Coplanar | PASS | |
| 3 | 0.1198 | 90.05 | 58.43 | -31.62 | 106.03 | 47.48 | PK | 100 | 277 | Coplanar | PASS | |
| 4 | 0.1600 | 83.07 | 51.63 | -31.44 | 103.52 | 51.89 | PK | 100 | 50 | Coplanar | PASS | |
| 5 | 0.4983 | 75.69 | 44.56 | -31.13 | 73.65 | 29.09 | PK | 100 | 30 | Coplanar | PASS | |
| 6 | 3.0156 | 55.52 | 24.41 | -31.11 | 69.54 | 45.13 | PK | 100 | 16 | Coplanar | PASS | |



Suspected Data List

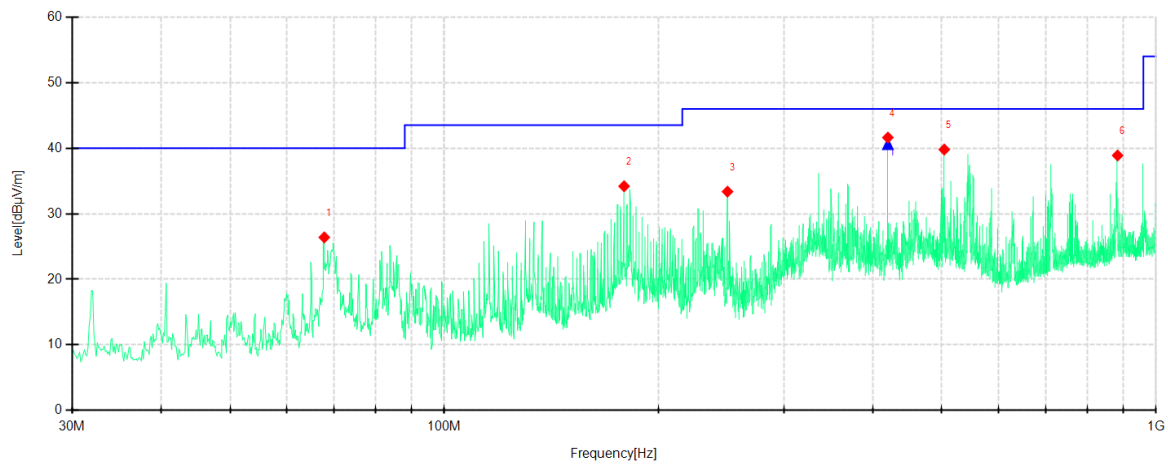
| NO . | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|---------|----------------|---------------------|-------------------|----------------|-------------------|----------------|-------|----------------|--------------|----------|---------|
| 1 | 0.0239 | 86.25 | 54.46 | -31.79 | 120.02 | 95.48 | PK | 100 | 276 | Coaxial | PASS |
| 2 | 0.0400 | 87.39 | 55.39 | -32.00 | 115.57 | 90.18 | PK | 100 | 222 | Coaxial | PASS |
| 3 | 0.1198 | 86.59 | 54.97 | -31.62 | 106.03 | 81.02 | PK | 100 | 194 | Coaxial | PASS |
| 4 | 0.4883 | 81.14 | 50.02 | -31.12 | 93.83 | 43.81 | PK | 100 | 205 | Coaxial | PASS |
| 5 | 3.1848 | 62.41 | 31.31 | -31.10 | 69.54 | 68.23 | PK | 100 | 177 | Coaxial | PASS |
| 6 | 8.1001 | 37.46 | 6.84 | -30.62 | 69.54 | 92.70 | PK | 100 | 106 | Coaxial | PASS |

----- The following blanks -----

30MHz-1GHz

Note: If the margin of the pre test results is greater than 6db, it meets the requirements of quasi peak or average values, and final testing is no longer required.

| Project Information | | | |
|---------------------|-------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 1 | Voltage: | DC 12V |
| Environment: | Temp: 27.5℃; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-02 | / | / |

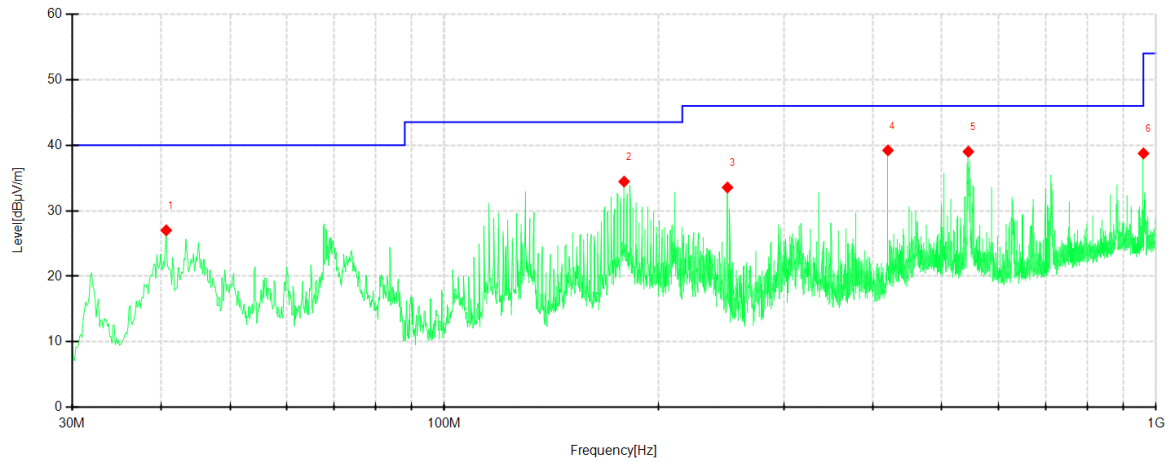


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|------------|---------|
| 1 | 67.8347 | 56.91 | 26.40 | -30.51 | 40.00 | 13.60 | PK | 200 | 255 | Horizontal | PASS |
| 2 | 178.9136 | 63.67 | 34.20 | -29.47 | 43.50 | 9.30 | PK | 200 | 205 | Horizontal | PASS |
| 3 | 249.9750 | 62.70 | 33.38 | -29.32 | 46.00 | 12.62 | PK | 200 | 343 | Horizontal | PASS |
| 4 | 419.9887 | 65.19 | 41.62 | -23.57 | 46.00 | 4.38 | PK | 100 | 254 | Horizontal | PASS |
| 5 | 504.0255 | 61.15 | 39.80 | -21.35 | 46.00 | 6.20 | PK | 100 | 16 | Horizontal | PASS |
| 6 | 883.1004 | 54.29 | 38.89 | -15.40 | 46.00 | 7.11 | PK | 100 | 343 | Horizontal | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|------------|---------|
| 1 | 420.0191 | -23.57 | 64.17 | 40.60 | 46.00 | 5.40 | 100 | 248.7 | Horizontal | PASS |

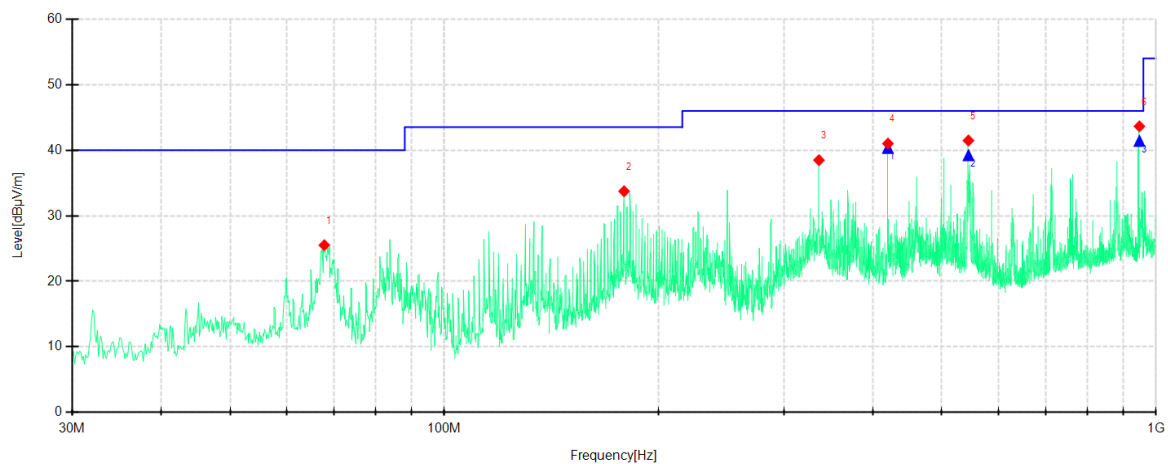


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 40.6713 | 55.67 | 27.02 | -28.65 | 40.00 | 12.98 | PK | 100 | 187 | Vertical | PASS |
| 2 | 178.9136 | 63.92 | 34.45 | -29.47 | 43.50 | 9.05 | PK | 100 | 106 | Vertical | PASS |
| 3 | 249.9750 | 62.87 | 33.55 | -29.32 | 46.00 | 12.45 | PK | 100 | 87 | Vertical | PASS |
| 4 | 420.1100 | 62.78 | 39.21 | -23.57 | 46.00 | 6.79 | PK | 200 | 143 | Vertical | PASS |
| 5 | 544.8919 | 59.53 | 39.01 | -20.52 | 46.00 | 6.99 | PK | 200 | 273 | Vertical | PASS |
| 6 | 960.2250 | 53.75 | 38.75 | -15.00 | 54.00 | 15.25 | PK | 200 | 233 | Vertical | PASS |

----- The following blanks -----

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 2 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-02 | / | / |

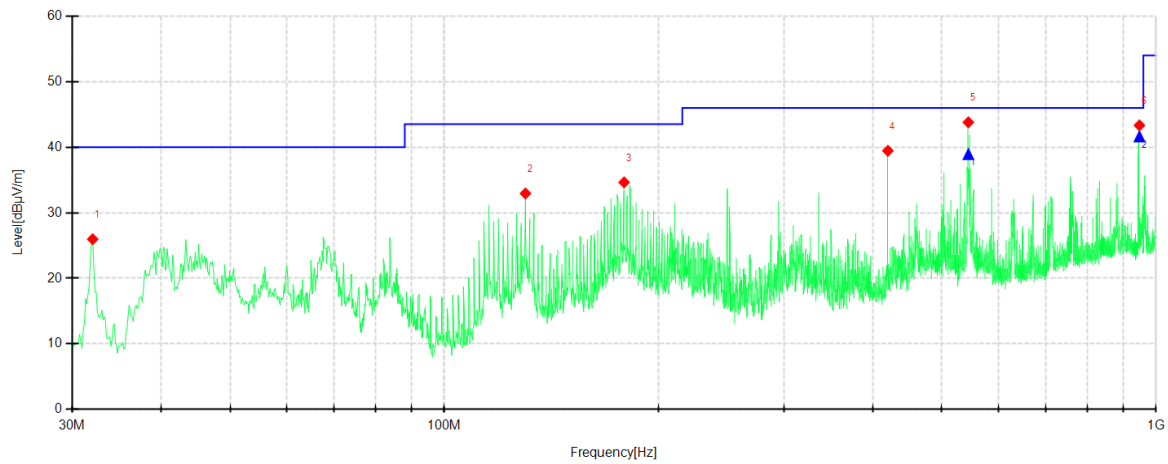


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|------------|---------|
| 1 | 67.8347 | 56.02 | 25.51 | -30.51 | 40.00 | 14.49 | PK | 100 | 224 | Horizontal | PASS |
| 2 | 178.9136 | 63.21 | 33.74 | -29.47 | 43.50 | 9.76 | PK | 200 | 223 | Horizontal | PASS |
| 3 | 336.0733 | 64.83 | 38.48 | -26.35 | 46.00 | 7.52 | PK | 100 | 345 | Horizontal | PASS |
| 4 | 420.1100 | 64.58 | 41.01 | -23.57 | 46.00 | 4.99 | PK | 100 | 254 | Horizontal | PASS |
| 5 | 545.0131 | 62.00 | 41.48 | -20.52 | 46.00 | 4.52 | PK | 200 | 244 | Horizontal | PASS |
| 6 | 947.7347 | 59.05 | 43.64 | -15.41 | 46.00 | 2.36 | PK | 100 | 164 | Horizontal | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|------------|---------|
| 1 | 420.0128 | -23.57 | 63.90 | 40.33 | 46.00 | 5.67 | 100 | 257.9 | Horizontal | PASS |
| 2 | 545.0289 | -20.52 | 59.72 | 39.20 | 46.00 | 6.80 | 200 | 258.8 | Horizontal | PASS |
| 3 | 947.6110 | -15.41 | 56.80 | 41.39 | 46.00 | 4.61 | 182 | 95 | Horizontal | PASS |



Suspected Data List

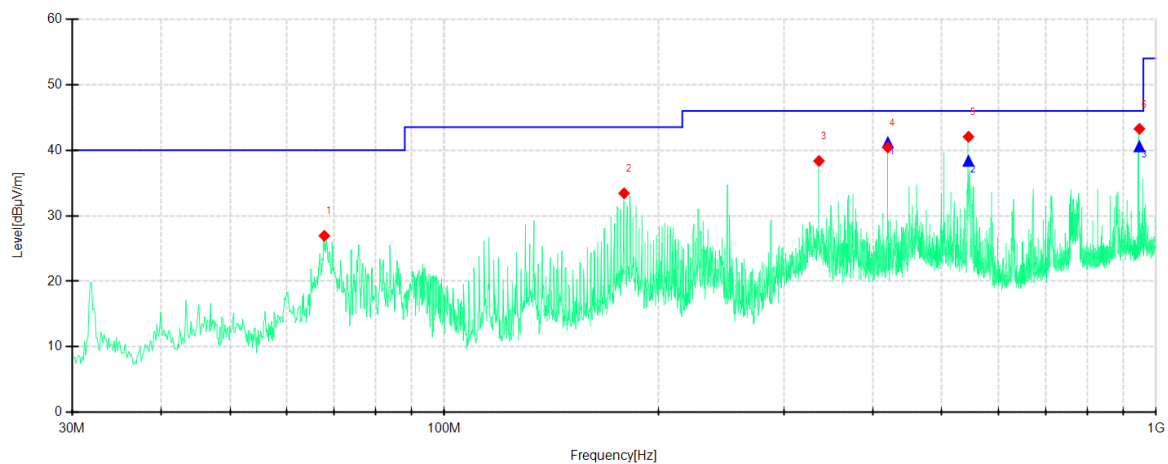
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 32.0615 | 55.09 | 25.97 | -29.12 | 40.00 | 14.03 | PK | 100 | 263 | Vertical | PASS |
| 2 | 130.0438 | 61.88 | 32.94 | -28.94 | 43.50 | 10.56 | PK | 100 | 314 | Vertical | PASS |
| 3 | 178.9136 | 64.11 | 34.64 | -29.47 | 43.50 | 8.86 | PK | 100 | 95 | Vertical | PASS |
| 4 | 419.9887 | 63.02 | 39.45 | -23.57 | 46.00 | 6.55 | PK | 100 | 314 | Vertical | PASS |
| 5 | 544.8919 | 64.32 | 43.80 | -20.52 | 46.00 | 2.20 | PK | 100 | 294 | Vertical | PASS |
| 6 | 947.7347 | 58.74 | 43.33 | -15.41 | 46.00 | 2.67 | PK | 200 | 186 | Vertical | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|----------|---------|
| 1 | 544.9313 | -20.52 | 59.45 | 38.93 | 46.00 | 7.07 | 101 | 288.7 | Vertical | PASS |
| 2 | 947.6110 | -15.41 | 57.03 | 41.62 | 46.00 | 4.38 | 166 | 12.2 | Vertical | PASS |

----- The following blanks -----

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 3 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-02 | / | / |

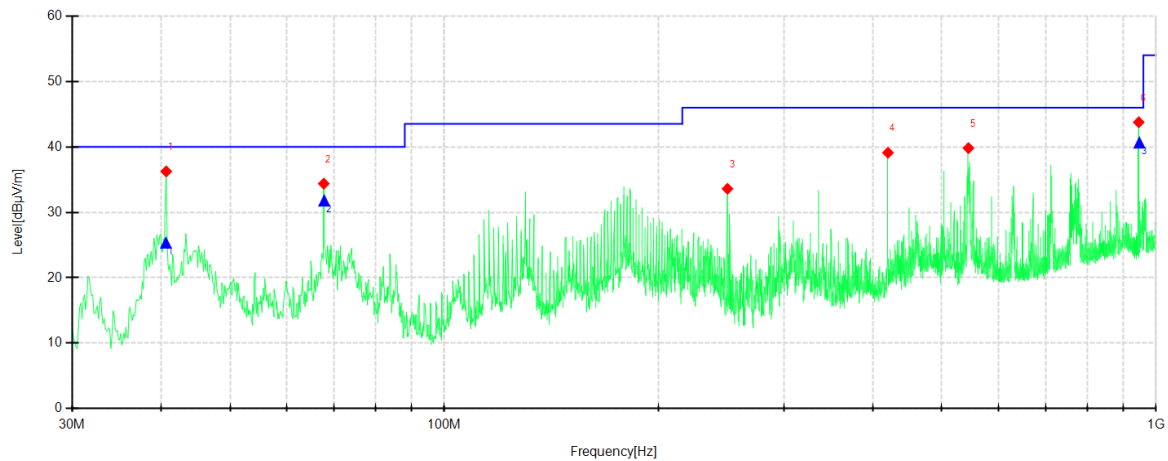


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|------------|---------|
| 1 | 67.8347 | 57.46 | 26.95 | -30.51 | 40.00 | 13.05 | PK | 100 | 24 | Horizontal | PASS |
| 2 | 178.9136 | 62.90 | 33.43 | -29.47 | 43.50 | 10.07 | PK | 200 | 206 | Horizontal | PASS |
| 3 | 336.0733 | 64.71 | 38.36 | -26.35 | 46.00 | 7.64 | PK | 100 | 15 | Horizontal | PASS |
| 4 | 419.9887 | 64.00 | 40.43 | -23.57 | 46.00 | 5.57 | PK | 100 | 254 | Horizontal | PASS |
| 5 | 545.1344 | 62.57 | 42.05 | -20.52 | 46.00 | 3.95 | PK | 200 | 254 | Horizontal | PASS |
| 6 | 947.7347 | 58.66 | 43.25 | -15.41 | 46.00 | 2.75 | PK | 100 | 195 | Horizontal | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|------------|---------|
| 1 | 419.9887 | -23.57 | 64.73 | 41.16 | 46.00 | 4.84 | 100 | 248.6 | Horizontal | PASS |
| 2 | 544.9766 | -20.52 | 58.88 | 38.36 | 46.00 | 7.64 | 200 | 249.5 | Horizontal | PASS |
| 3 | 947.6110 | -15.41 | 55.97 | 40.56 | 46.00 | 5.44 | 188 | 320.6 | Horizontal | PASS |

**Suspected Data List**

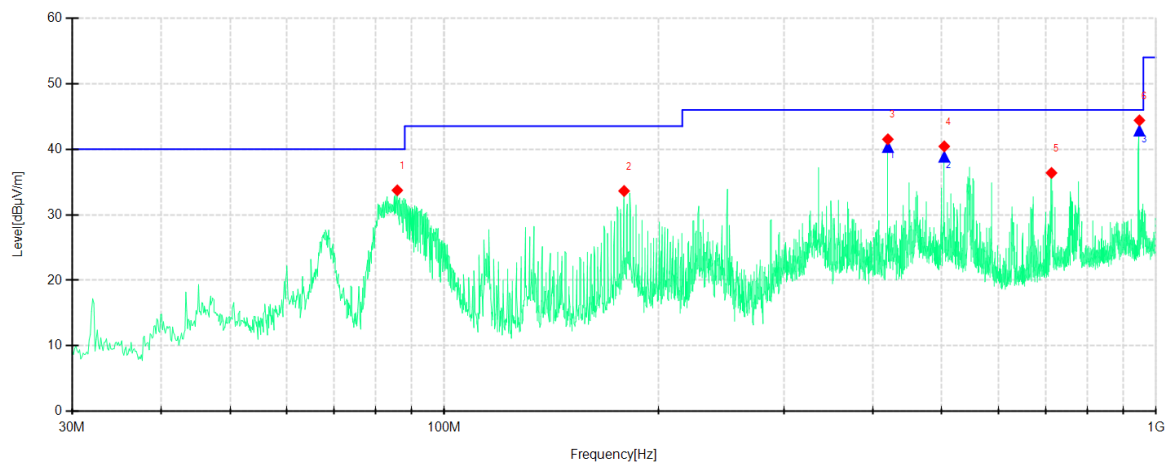
| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 40.6713 | 64.90 | 36.25 | -28.65 | 40.00 | 3.75 | PK | 100 | 167 | Vertical | PASS |
| 2 | 67.7135 | 64.87 | 34.38 | -30.49 | 40.00 | 5.62 | PK | 100 | 167 | Vertical | PASS |
| 3 | 249.9750 | 62.92 | 33.60 | -29.32 | 46.00 | 12.40 | PK | 100 | 97 | Vertical | PASS |
| 4 | 420.1100 | 62.68 | 39.11 | -23.57 | 46.00 | 6.89 | PK | 200 | 74 | Vertical | PASS |
| 5 | 545.0131 | 60.33 | 39.81 | -20.52 | 46.00 | 6.19 | PK | 200 | 311 | Vertical | PASS |
| 6 | 945.6732 | 59.20 | 43.77 | -15.43 | 46.00 | 2.23 | PK | 200 | 351 | Vertical | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|----------|---------|
| 1 | 40.6319 | -28.65 | 53.97 | 25.32 | 40.00 | 14.68 | 100 | 110.1 | Vertical | PASS |
| 2 | 67.7987 | -30.49 | 62.26 | 31.77 | 40.00 | 8.23 | 119 | 271.1 | Vertical | PASS |
| 3 | 947.6298 | -15.43 | 56.05 | 40.62 | 46.00 | 5.38 | 105 | 112.5 | Vertical | PASS |

----- The following blanks -----

| Project Information | | | |
|---------------------|--------------------------------------|-----------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Mode: | Mode 4 | Voltage: | DC 12V |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Engineer: | Zhang zishan |
| Tested Date: | 2023-08-02 | / | / |

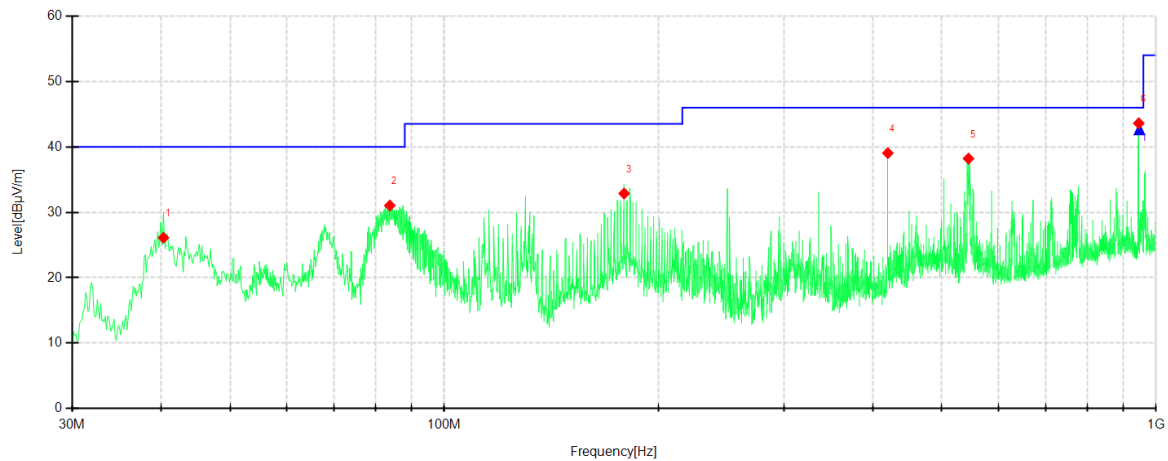


Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|------------|---------|
| 1 | 85.9032 | 67.00 | 33.73 | -33.27 | 40.00 | 6.27 | PK | 200 | 227 | Horizontal | PASS |
| 2 | 178.9136 | 63.10 | 33.63 | -29.47 | 43.50 | 9.87 | PK | 200 | 217 | Horizontal | PASS |
| 3 | 419.9887 | 65.08 | 41.51 | -23.57 | 46.00 | 4.49 | PK | 100 | 246 | Horizontal | PASS |
| 4 | 504.0255 | 61.78 | 40.43 | -21.35 | 46.00 | 5.57 | PK | 100 | 136 | Horizontal | PASS |
| 5 | 713.0866 | 53.97 | 36.38 | -17.59 | 46.00 | 9.62 | PK | 100 | 116 | Horizontal | PASS |
| 6 | 947.7347 | 59.81 | 44.40 | -15.41 | 46.00 | 1.60 | PK | 100 | 265 | Horizontal | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|------------|---------|
| 1 | 420.0556 | -23.57 | 63.90 | 40.33 | 46.00 | 5.67 | 100 | 250.2 | Horizontal | PASS |
| 2 | 504.0401 | -21.35 | 60.18 | 38.83 | 46.00 | 7.17 | 108 | 135.6 | Horizontal | PASS |
| 3 | 947.5700 | -15.41 | 58.23 | 42.82 | 46.00 | 3.18 | 198 | 196.1 | Horizontal | PASS |



Suspected Data List

| NO. | Freq. [MHz] | Reading [dBμV/m] | Level [dBμV/m] | Factor [dB] | Limit [dBμV/m] | Margin [dB] | Trace | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|------------------|----------------|-------------|----------------|-------------|-------|-------------|-----------|----------|---------|
| 1 | 40.3075 | 54.78 | 26.12 | -28.66 | 40.00 | 10.02 | PK | 100 | 304 | Vertical | PASS |
| 2 | 83.8417 | 64.30 | 31.04 | -33.26 | 40.00 | 8.51 | PK | 200 | 0 | Vertical | PASS |
| 3 | 178.9136 | 62.35 | 32.88 | -29.47 | 43.50 | 9.13 | PK | 100 | 96 | Vertical | PASS |
| 4 | 419.9887 | 62.62 | 39.05 | -23.57 | 46.00 | 6.54 | PK | 200 | 125 | Vertical | PASS |
| 5 | 545.1344 | 58.73 | 38.21 | -20.52 | 46.00 | 7.79 | PK | 100 | 266 | Vertical | PASS |
| 6 | 945.6732 | 59.04 | 43.61 | -15.43 | 46.00 | 1.60 | PK | 200 | 324 | Vertical | PASS |

Final Data List

| NO. | Freq. [MHz] | Factor [dB] | QP Reading [dBμV/m] | Level [dBμV/m] | QP Limit [dBμV/m] | QP Margin [dB] | Height [cm] | Angle [°] | Polarity | Verdict |
|-----|-------------|-------------|---------------------|----------------|-------------------|----------------|-------------|-----------|----------|---------|
| 1 | 947.6168 | -15.43 | 58.09 | 42.66 | 46.00 | 3.34 | 200 | 181.4 | Vertical | PASS |

----- The following blanks -----

6. 20DB BANDWIDTH

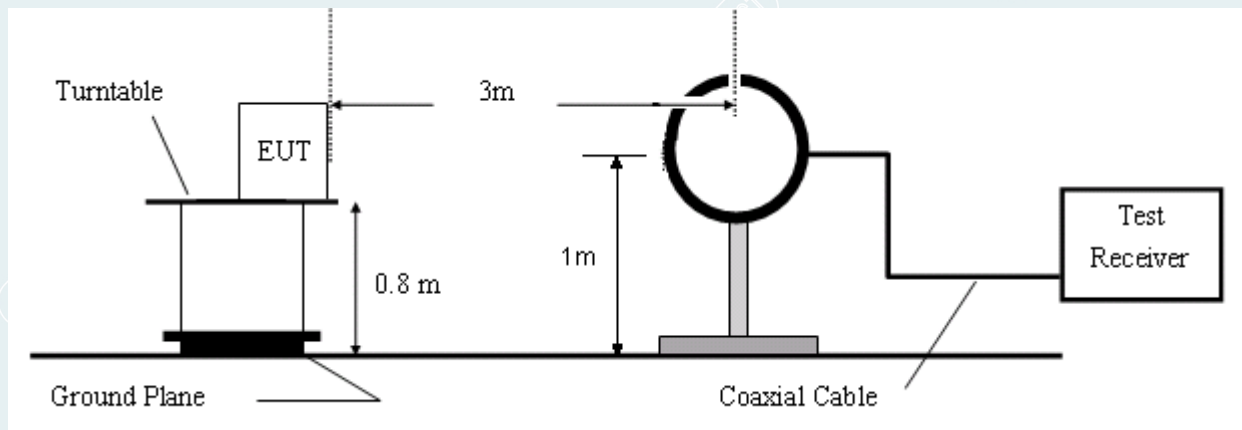
6.1 LIMITS

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. In the case of intentional radiators operating under the provisions of subpart E, the emission bandwidth may span across multiple contiguous frequency bands identified in that subpart. 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.

6.2 TEST PROCEDURES

- 1) The equipment was set up to simulate a typical usage like described in the user manual or described by manufacturer.
- 2) If the EUT is a tabletop system, a rotatable table with 0.8 m height is used.
- 3) If the EUT is a floor standing device, it is placed on the ground.
- 4) Auxiliary equipment and cables were positioned to simulate normal operation conditions.
- 5) The measurement distance is 3 meter.
- 6) The EUT was set into operation.
- 7) Adjust the test instrument for the following setting.
RBW: 1Hz.
VBW: 3 times of the RBW.
Detector: Peak.
Sweep time: Auto.
- 8) Allow trace to fully stabilize.

6.3 TEST SETUP



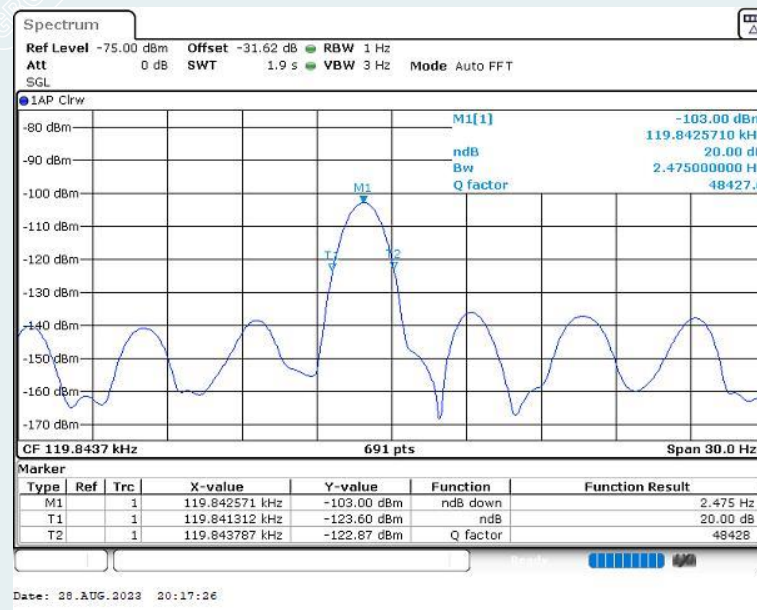
6.4 TEST RESULTS

| Project Information | | | |
|---------------------|--------------------------------------|------------|----------------------|
| Application No.: | E20230717807601 | EUT: | RN WCBS |
| Model: | Z0003NI | SN: | E20230717807601-0001 |
| Environment: | Temp: 27.5°C; Humi: 57%; 101.0kPa | Voltage: | DC 12V |
| Engineer: | Zhang zishan | Test date: | 2023-08-28 |

Note: There are no fundamental frequency in mode 1.

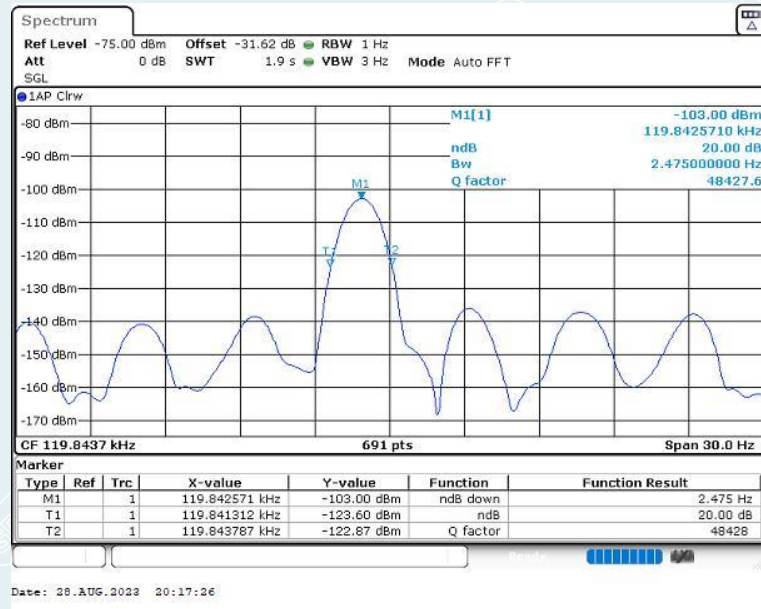
For mode 2:

| Frequency (kHz) | 20dB Bandwidth (Hz) | limit | Test Result |
|-----------------|---------------------|-------|-------------|
| 119.8437 | 2.475 | N/A | Complied |



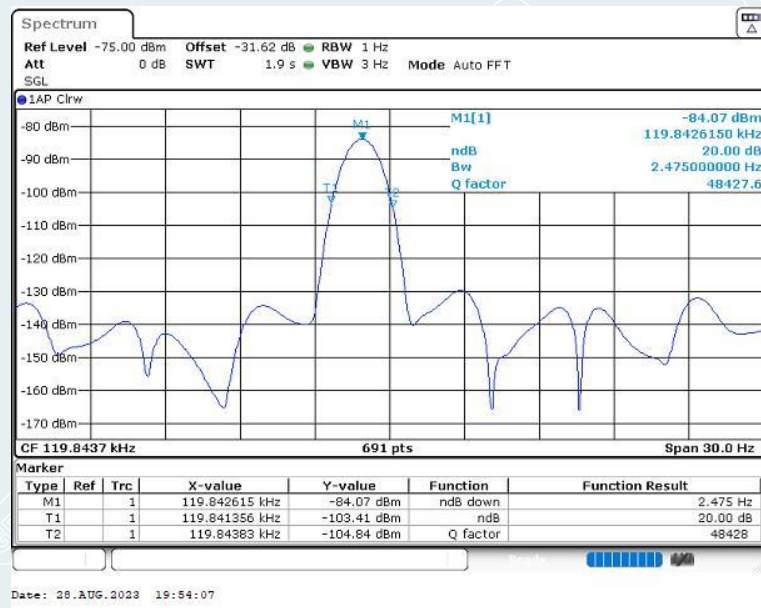
For mode 3:

| Frequency (kHz) | 20dB Bandwidth (Hz) | limit | Test Result |
|-----------------|---------------------|-------|-------------|
| 119.8437 | 2.475 | N/A | Complied |



For mode 4:

| Frequency (kHz) | 20dB Bandwidth (Hz) | limit | Test Result |
|-----------------|---------------------|-------|-------------|
| 119.8437 | 2.475 | N/A | Complied |



7. PHOTOGRAPHS OF TEST SET-UP

Please refer to the attached document E20230717807601-10-test setup photo.

8. PHOTOGRAPHS OF THE EUT

Please refer to the attached document E20230717807601-11-EUT photo.

----- **End of Report** -----