

Report No.: SEWM2311000454RG07
 Rev.: 01
 Page: 1 of 32

TEST REPORT

Application No.: SEWM2311000454RG
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
EUT Description: Mobile Phone
Model No.: XIG05
Trade Mark: Redmi
FCC ID: 2AFZZRA50J
Standards: FCC 47 CFR Part 15, Subpart C 15.225
Date of Receipt: 2023/11/10
Date of Test: 2023/11/10 to 2023/12/12
Date of Issue: 2023/12/21

| | |
|----------------------|---------------|
| Test Result : | PASS * |
|----------------------|---------------|

* In the configuration tested, the EUT detailed in this report complied with the standards specified above.

Authorized Signature:

Well Wei
 Wireless Laboratory Manager


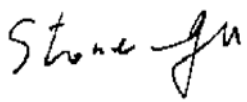


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1 Version

| Revision Record | | | | |
|-----------------|---------|------------|----------|----------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2023/12/21 | | Original |

| | | |
|--------------------|--|---|
| Prepared By | |  <hr/> (Ives Cheng) / Test Engineer |
| Checked By | |  <hr/> (Stone Gu) / Reviewer |



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2 Test Summary

| Test Item | FCC Rules No. | Test Method | Test Result | Result |
|---|------------------|-------------------------------------|-------------|--------|
| Antenna Requirement | 15.203 | -- | Clause 4.1 | PASS |
| AC Power Line Conducted Emission | 15.207 | ANSI C63.10-2020 Section 6.2 | Clause 4.2 | PASS |
| 20dB Spectrum Bandwidth | 15.215(c) | ANSI C63.10-2020 Section 6.9.2 | Clause 4.3 | PASS |
| Frequency Stability | 15.225(e) | ANSI C63.10-2020 Section 6.8 | Clause 4.4 | PASS |
| Field Strength of Fundamental Emissions | 15.225(a)(b)(c) | ANSI C63.10-2020 Section 6.4.7 | Clause 4.5 | PASS |
| Radiated Spurious Emissions | 15.225(d)/15.209 | ANSI C63.10-2020 Section 6.4/6.5 | Clause 4.6 | PASS |



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Contents

| | | |
|-----|--|----|
| 1 | Version | 2 |
| 2 | Test Summary | 3 |
| 3 | General Information | 5 |
| 3.1 | Details of Client | 5 |
| 3.2 | Test Location | 5 |
| 3.3 | Test Facility | 5 |
| 3.4 | General Description of EUT | 6 |
| 3.5 | Test Environment | 7 |
| 3.6 | Description of Support Units | 7 |
| 4 | Test results and Measurement Data | 8 |
| 4.1 | Antenna Requirement | 8 |
| 4.2 | Worst-case configuration and mode | 8 |
| 4.3 | AC Power Line Conducted Emissions | 9 |
| 4.4 | 20dB Spectrum Bandwidth | 13 |
| 4.5 | Frequency Stability | 14 |
| 4.6 | Field Strength of Fundamental Emissions | 15 |
| 4.7 | Radiated Spurious Emissions | 17 |
| 5 | Measurement Uncertainty (95% confidence levels, k=2) | 19 |
| 6 | Equipment List | 20 |
| 7 | Photographs - Setup Photos | 22 |



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3 General Information

3.1 Details of Client

| | |
|--------------------------|---|
| Applicant: | Xiaomi Communications Co., Ltd. |
| Address of Applicant: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |
| Manufacturer: | Xiaomi Communications Co., Ltd. |
| Address of Manufacturer: | #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085 |

3.2 Test Location

| | |
|----------------|--|
| Company: | SGS-CSTC Standards Technical Services (Suzhou) Co., Ltd. |
| Address: | South of No. 6 Plant, No. 1, Runsheng Road, Suzhou Industrial Park, Suzhou Area, China (Jiangsu) Pilot Free Trade Zone |
| Post code: | 215000 |
| Test engineer: | Ives Cheng, King-p.Li |

3.3 Test Facility

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

| |
|--|
| <ul style="list-style-type: none"> • A2LA (Certificate No. 6336.01) SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 6336.01. • Innovation, Science and Economic Development Canada SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized by ISED as an accredited testing laboratory. CAB identifier: CN0120. IC#: 27594. • FCC –Designation Number: CN1312 SGS-CSTC STANDARDS TECHNICAL SERVICES (SUZHOU) CO., LTD. has been recognized as an accredited testing laboratory. Designation Number: CN1312. Test Firm Registration Number: 717327 |
|--|



3.4 General Description of EUT

| | | |
|--|--|--|
| EUT Description: | Mobile Phone | |
| Model No.: | XIG05 | |
| Trade Mark: | Redmi | |
| Hardware Version: | 13510N16 | |
| Software Version: | Xiaomi HyperOS 1.0 | |
| Power Supply: | Lithium Battery (3.91V) | |
| IMEI: | RF Conducted | IMEI1:864594070006025 IMEI2:864594070006033 |
| | RSE & AC power line | 864594070012007 |
| Operation Frequency: | 13.56MHz | |
| NFC Type: | Type A, B and F | |
| | Remark: the EUT has been pre-scanned in NFC Type A, B and F. the worst type(Type F) was recorded in this report if no others remark in the test items. | |
| Modulation Type: | ASK | |
| Antenna Type: | Coil antenna | |
| <p>Remark: As above information is provided and confirmed by the applicant. SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.</p> | | |



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3.5 Test Environment

| | | |
|--|--|--------------|
| Environment Parameter | 101.0 kPa Selected Values During Tests | |
| Relative Humidity | 44-46 % RH Ambient | |
| Value | Temperature(°C) | Voltage(Vdc) |
| NTNV | 22~23 | 3.91 |
| Remark: The extreme Voltage and extreme Temperature are refer to the test data of Frequency Stability. | | |

3.6 Description of Support Units

The EUT has been tested as an independent unit.



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4 Test results and Measurement Data

4.1 Antenna Requirement

| | |
|--|--------------------------------|
| Standard requirement: | 47 CFR Part 15C Section 15.203 |
| 15.203 requirement: An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited. | |
| The antenna of the EUT are permanently attached. | |

4.2 Worst-case configuration and mode

| |
|--|
| <p>The fundamental of the EUT was investigated under three orthogonal orientations X, Y, and Z. The X orientation was determined to be the worst-case orientation.</p> <p>In addition, Type A, B and F at each supported data rate and with/without a tag were investigated to determine the worst case based on the highest power and spurious emissions. Type A, 106Kbps without tag was determined to be the worst case and therefore Type A, 106Kbps without tag was selected for all final tests.</p> <p>Although these tests were performed ther than open area test site, adequate comparison measurements were confirmed against 30m open are test site. Therefore sufficient tests were made to demonstrate that the alternative site prduces results that correlate with the ones of tests made in an ope field based on KDB 414788.</p> |
|--|



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4.3 AC Power Line Conducted Emissions

| | | | |
|-----------------------|--|--------------|-----------|
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | |
| Test Method: | ANSI C63.10-2020 Section 6.2 | | |
| Test Frequency Range: | 150kHz to 30MHz | | |
| Limit: | Frequency range(MHz) | Limit (dBuV) | |
| | | 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 Procedure: | <ol style="list-style-type: none"> 1) The mains terminal disturbance voltage test was conducted in a shielded room. 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50Ω/50μH + 5Ω linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded. 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane. 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2. 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10-2020 on conducted measurement. | | |



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| | |
|--------------------------|--|
| <p>Test Setup:</p> | |
| <p>Instruments Used:</p> | <p>Refer to section 6 for details.</p> |
| <p>Test Results:</p> | <p>Pass</p> |



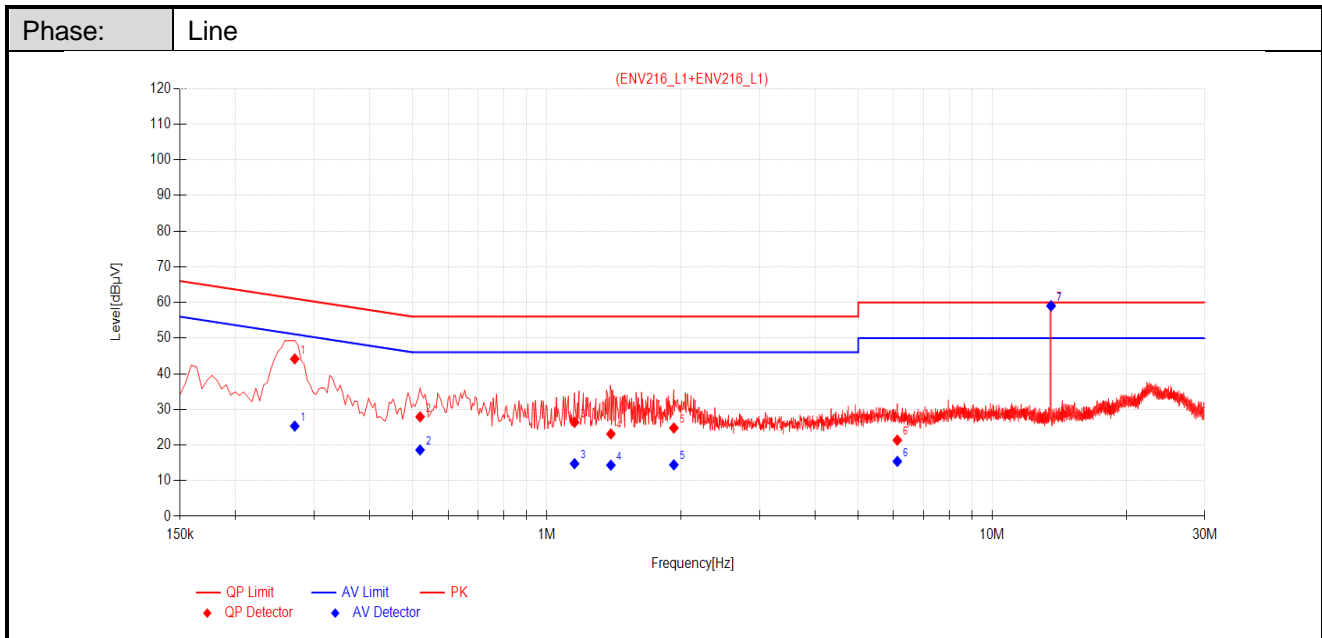
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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



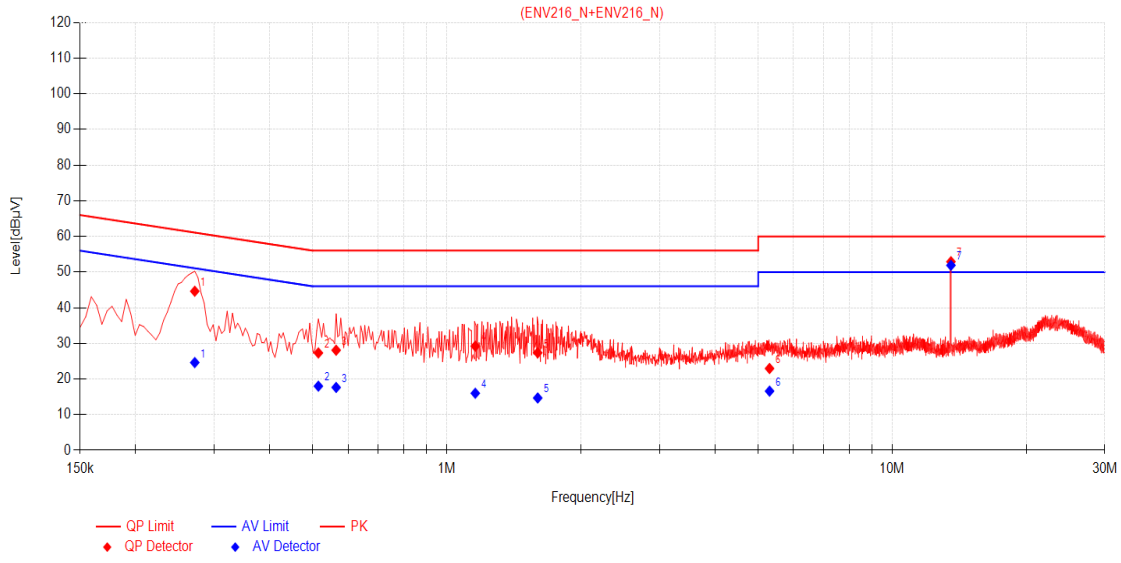
| Data List | | | | | | | | | | | |
|-----------|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
| 1 | 0.2715 | 11.64 | 32.50 | 44.14 | 61.07 | 16.93 | 13.66 | 25.30 | 51.07 | 25.77 | PASS |
| 2 | 0.5190 | 11.61 | 16.30 | 27.91 | 56.00 | 28.09 | 7.00 | 18.61 | 46.00 | 27.39 | PASS |
| 3 | 1.1535 | 11.72 | 14.64 | 26.36 | 56.00 | 29.64 | 3.05 | 14.77 | 46.00 | 31.23 | PASS |
| 4 | 1.3920 | 11.73 | 11.38 | 23.11 | 56.00 | 32.89 | 2.62 | 14.35 | 46.00 | 31.65 | PASS |
| 5 | 1.9275 | 11.74 | 13.03 | 24.77 | 56.00 | 31.23 | 2.71 | 14.45 | 46.00 | 31.55 | PASS |
| 6 | 6.1215 | 11.85 | 9.51 | 21.36 | 60.00 | 38.64 | 3.55 | 15.40 | 50.00 | 34.60 | PASS |
| 7* | 13.5555 | 11.91 | 47.15 | 59.06 | - | - | 47.1 | 59.01 | - | - | PASS |

Remark:

- The following Quasi-Peak and Average measurements were performed on the EUT:
- Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
- Margin = Limit[dBµV] – Value[dBµV]
- #7 is NFC signal which can be ignored.



Phase: Neutral



Data List

| NO. | Frequency [MHz] | Factor [dB] | QP Reading [dBµV] | QP Value [dBµV] | QP Limit [dBµV] | QP Margin [dB] | AV Reading [dBµV] | AV Value [dBµV] | AV Limit [dBµV] | AV Margin [dB] | Verdict |
|-----|-----------------|-------------|-------------------|-----------------|-----------------|----------------|-------------------|-----------------|-----------------|----------------|---------|
| 1 | 0.2715 | 11.64 | 32.98 | 44.62 | 61.07 | 16.45 | 12.97 | 24.61 | 51.07 | 26.46 | PASS |
| 2 | 0.5145 | 11.61 | 15.70 | 27.31 | 56.00 | 28.69 | 6.38 | 17.99 | 46.00 | 28.01 | PASS |
| 3 | 0.5640 | 11.63 | 16.45 | 28.08 | 56.00 | 27.92 | 6.01 | 17.64 | 46.00 | 28.36 | PASS |
| 4 | 1.1580 | 11.72 | 17.49 | 29.21 | 56.00 | 26.79 | 4.28 | 16.00 | 46.00 | 30.00 | PASS |
| 5 | 1.5990 | 11.73 | 15.62 | 27.35 | 56.00 | 28.65 | 2.95 | 14.68 | 46.00 | 31.32 | PASS |
| 6 | 5.3025 | 11.82 | 11.13 | 22.95 | 60.00 | 37.05 | 4.78 | 16.60 | 50.00 | 33.40 | PASS |
| 7* | 13.5465 | 11.91 | 41 | 52.91 | - | - | 39.98 | 51.89 | - | - | PASS |

Remark:
 1. The following Quasi-Peak and Average measurements were performed on the EUT:
 2. Value = Reading[dBµV] + Factor(Lin factor[dB] + cable loss[dB]).
 3. Margin = Limit[dBµV] – Value[dBµV]
 4. #7 is NFC signal which can be ignored.



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4.4 20dB Spectrum Bandwidth

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.215(c) |
| Test Method: | ANSI C63.10-2020 Section |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Limit: | Intentional radiators must be designed to ensure that the 20dB in the specific band 13.553~13.567MHz. |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.5 Frequency Stability

| | |
|---|---|
| Test Requirement: | 47 CFR Part 15C Section 15.225(e) |
| Test Method: | ANSI C63.10-2020 Section 6.8 |
| Test Setup: | |
| Instruments Used: | Refer to section 6 for details |
| Limit: | <p>The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% (100ppm) of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.</p> <p>While maintaining a constant temperature inside the environmental chamber, turn the EUT ON and record the operating frequency at startup, and at 2 minutes, 5 minutes, and 10 minutes after the EUT is energized. Four measurements in total are made.</p> |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.6 Field Strength of Fundamental Emissions

| | | | | | |
|-------------------|--|---|---|---|--|
| Test Requirement: | 47 CFR Part 15C Section 15.225 | | | | |
| Test Method: | ANSI C63.10-2020 Section 6.4.7 | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Limit: | Frequency | Field Strength ($\mu\text{V/m}$) at 30m | Field Strength (dB $\mu\text{V/m}$) at 30m | Field Strength (dB $\mu\text{V/m}$) at 10m | Field Strength (dB $\mu\text{V/m}$) at 3m |
| | 1.705~13.110 MHz | 30 | 29.5 | 48.58 | 69.5 |
| | 13.110~13.410 MHz | 106 | 40.5 | 59.58 | 80.5 |
| | 13.410~13.553 MHz | 334 | 50.5 | 69.58 | 90.5 |
| | 13.553~13.567 MHz | 15,848 | 84.0 | 103.08 | 124.0 |
| | 13.567~13.710 MHz | 334 | 50.5 | 69.58 | 90.5 |
| | 13.710~14.010 MHz | 106 | 40.5 | 59.58 | 80.5 |
| | 14.010~30.000 MHz | 30 | 29.5 | 48.58 | 69.5 |

Test Setup:

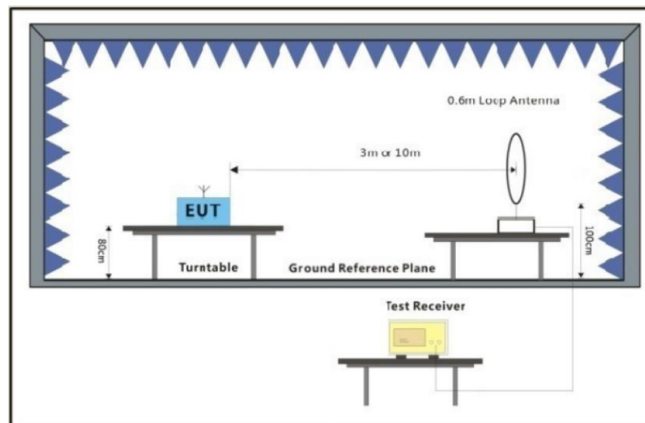


Figure 1. Below 30MHz

| | |
|-----------------|--|
| Test Procedure: | <ol style="list-style-type: none"> The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified |
|-----------------|--|



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| | |
|---|---|
| | <p>Bandwidth with Maximum Hold Mode.</p> <p>f. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>g. Repeat above procedures until all frequencies measured was complete.</p> <p>h. RBW set to 9kHz.</p> |
| Exploratory Test Mode: | <p>Transmitting with modulation.</p> <p>Charge + Transmitting mode.</p> |
| Final Test Mode: | <p>Transmitting with modulation.</p> <p>Pretest the EUT at Charge + Transmitting mode. Only the worst case is recorded in the report.</p> |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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4.7 Radiated Spurious Emissions

| | | | | | |
|--|--|----------------------------------|----------------|------------|--------------------------|
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.225 | | | | |
| Test Method: | ANSI C63.10-2020 Section 6.4&6.5 | | | | |
| Test Site: | Measurement Distance: 3m (Semi-Anechoic Chamber) | | | | |
| Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz-0.490MHz | 2400/F(kHz) | - | - | 300 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | - | - | 30 |
| | 1.705MHz-30MHz | 30 | - | - | 30 |
| | 30MHz-88MHz | 100 | 40.0 | Quasi-peak | 3 |
| | 88MHz-216MHz | 150 | 43.5 | Quasi-peak | 3 |
| | 216MHz-960MHz | 200 | 46.0 | Quasi-peak | 3 |
| | Above 960MHz | 500 | 54.0 | Quasi-peak | 3 |
| Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. | | | | | |

Test Setup:

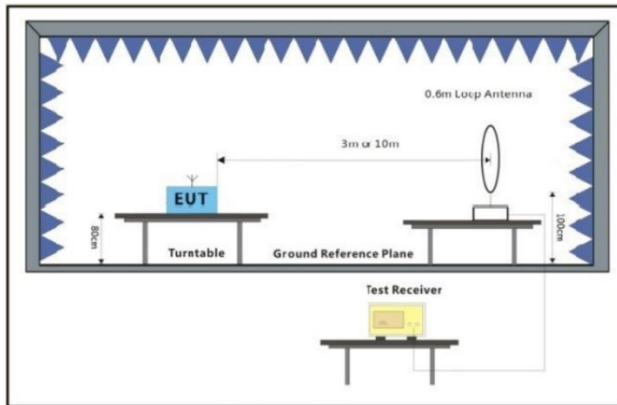


Figure 1. Below 30MHz

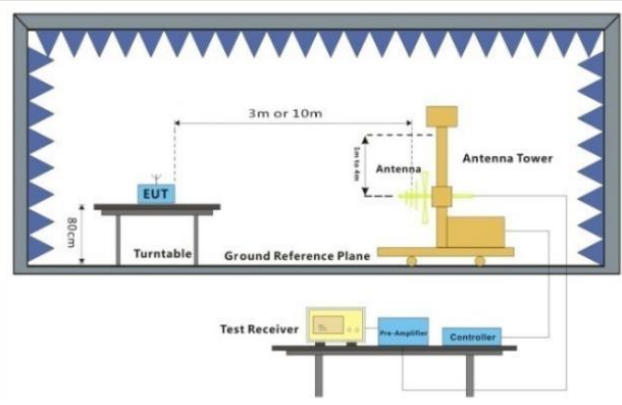


Figure 2. Above 30MHz

| | |
|-----------------|--|
| Test Procedure: | <ol style="list-style-type: none"> i. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation. j. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. k. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. l. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency |
|-----------------|--|



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| | |
|---|---|
| | <p>of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.</p> <p>m. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.</p> <p>n. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, And found the X axis positioning which it is worse case.</p> <p>o. Repeat above procedures until all frequencies measured was complete.</p> |
| Exploratory Test Mode: | Transmitting with modulation. Charge + Transmitting mode. |
| Final Test Mode: | Transmitting with modulation. Pretest the EUT at Charge + Transmitting mode.Only the worst case is recorded in the report. |
| Instruments Used: | Refer to section 6 for details |
| Test Results: | Pass |
| The detailed test data see: Appendix | |



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5 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty |
|-----|---------------------|----------------------------|
| 1 | Radio Frequency | ±1.0 % |
| 2 | Occupied Bandwidth | ±1.0 % |
| 3 | Conduction Emission | ± 2.90dB (150kHz to 30MHz) |
| 4 | Radiated Emission | ± 3.13dB (9k -30MHz) |
| | | ± 4.8dB (30M -1GHz) |

Remark:
 The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (CISPR/ETSI Uncertainty), so the test results
 – compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
 – non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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6 Equipment List

| RF Test Equipment | | | | | |
|--------------------------------|---------------|-------------------------------|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Shielding Room | Brilliant-emc | N/A | SUWI-04-01-06 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-07 | 2023/02/06 | 2024/02/05 |
| Measurement Software | Tonscend | JS1120-3 Test System V 3.3.20 | SUWI-02-09-09 | NCR | NCR |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Temperature Chamber | ESPEC | SU-242 | SUWI-01-13-01 | 2023/02/06 | 2024/02/05 |
| DC Power Supply | HYELEC | HY3005B | SUWI-01-18-01 | 2023/02/06 | 2024/02/05 |
| Power meter | Anritsu | ML2495A | SUWI-01-31-01 | 2022/11/23 | 2023/11/22 |
| | | | | 2023/11/21 | 2024/11/20 |
| Pulse power sensor | Anritsu | MA2411B | SUWI-01-32-01 | 2022/11/23 | 2023/11/22 |
| | | | | 2023/11/21 | 2024/11/20 |
| MXG Vector signal genitor | KEYSIGHT | N5182B | SUWI-01-38-01 | 2023/02/06 | 2024/02/05 |
| Signal Generator | ROHDE&SCHWARZ | SMM100A | SN:101716 | 2023/02/22 | 2024/02/21 |

| Conduction Test Equipment | | | | | |
|--------------------------------|---------------|------------------|---------------|------------------------|---------------------------|
| Test Equipment | Manufacturer | Model No. | Inventory No. | Cal. date (yyyy/mm/dd) | Cal.Due date (yyyy/mm/dd) |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-06 | 2023/02/07 | 2024/02/06 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-03 | 2023/02/08 | 2024/02/07 |
| Artificial network | ROHDE&SCHWARZ | ENV216 | SUWI-01-19-04 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-CE V4.0.0.2 | SUWI-02-09-05 | NCR | NCR |



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| RSE Test System | | | | | |
|--------------------------------|----------------------------|-----------------|---------------|-----------------------|---------------------------|
| Equipment | Manufacturer | Model No. | Inventory No. | Cal Date (yyyy/mm/dd) | Cal Due Date (yyyy/mm/dd) |
| Semi-Anechoic Chamber | Brilliant-emc | N/A | SUWI-04-02-01 | 2021/05/08 | 2024/05/07 |
| Temperature and humidity meter | MingGao | TH101B | SUWI-01-01-05 | 2023/02/07 | 2024/02/06 |
| Signal Analyzer | ROHDE&SCHWARZ | FSW43 | SUWI-01-02-04 | 2023/05/11 | 2024/05/10 |
| Test receiver | ROHDE&SCHWARZ | ESR7 | SUWI-01-10-01 | 2023/02/08 | 2024/02/07 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | VULB 9163 | SUWI-01-11-01 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9120D | SUWI-01-11-02 | 2023/05/13 | 2024/05/12 |
| Receiving antenna | SCHWRZBECK MESS-ELEKTRONIK | BBHA 9170 | SUWI-01-11-03 | 2023/05/12 | 2024/05/11 |
| Active Loop Antenna | SCHWRZBECK MESS-ELEKTRONIK | FMZB 1519B | SUWI-01-21-01 | 2023/05/13 | 2024/05/12 |
| Amplifier | Tonscend | TAP9K3G40 | SUWI-01-14-01 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP01018050 | SUWI-01-14-02 | 2023/02/06 | 2024/02/05 |
| Amplifier | Tonscend | TAP18040048 | SUWI-01-14-03 | 2023/02/08 | 2024/02/07 |
| Measurement Software | Tonscend | JS32-RE 4.0.0.0 | SUWI-02-09-04 | NCR | NCR |



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Report No.: SEWM2311000454RG07

Rev.: 01

Page: 22 of 32

7 Photographs - Setup Photos

Refer to Appendix A.4 NFC Setup Photos.



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Page: 23 of 32

Appendix

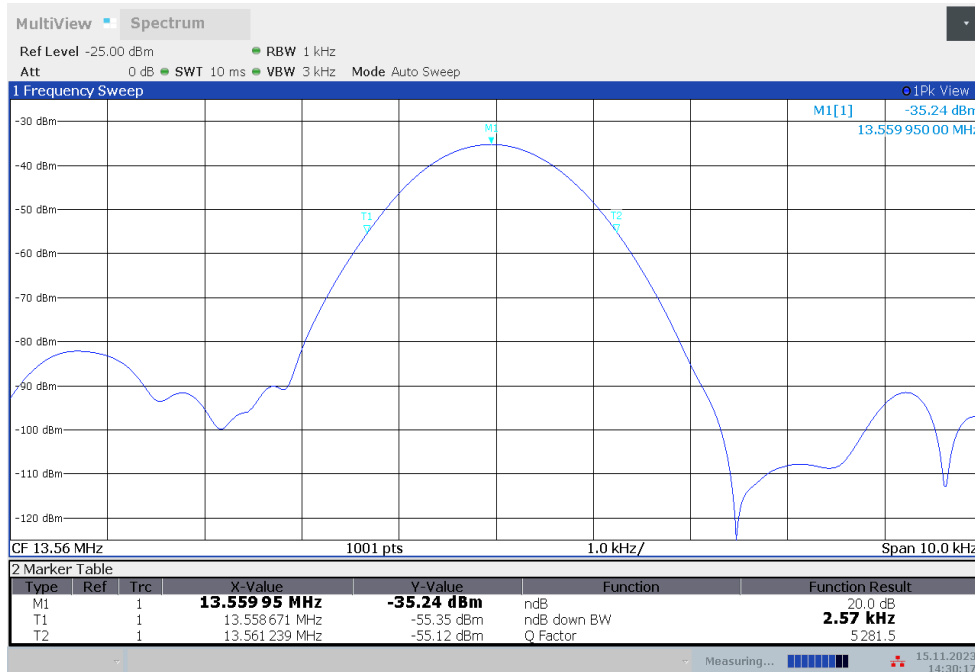


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20dB Bandwidth



14:30:17 15.11.2023

Note:

Because the measured signal is CW or CW-like adjusting the RBW per C63.10 would not be practical since measured bandwidth will always follow the RBW and the result will be approximately twice the RBW.



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Frequency tolerance

| Declared Frequency (MHz) | | 13.56MHz | | | |
|--------------------------|--------------|----------------------------|-------------------------|-----------|--------|
| Startup | | | | | |
| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Frequency Tolerance (%) | Limit (%) | Result |
| 50 | 3.91 | 13.55993 | 0.0005 | ±0.01 | Pass |
| 40 | | 13.55995 | 0.0004 | | Pass |
| 30 | | 13.55995 | 0.0004 | | Pass |
| 20 | | 13.55995 | 0.0004 | | Pass |
| 10 | | 13.55995 | 0.0004 | | Pass |
| 0 | | 13.55995 | 0.0004 | | Pass |
| -10 | | 13.55995 | 0.0004 | | Pass |
| -20 | | 13.55995 | 0.0004 | | Pass |
| 20 | | 4.35 | 13.55995 | | 0.0004 |
| | 3.50 | 13.55995 | 0.0004 | Pass | |

| Declared Frequency (MHz) | | 13.56MHz | | | |
|--------------------------|--------------|----------------------------|-------------------------|-----------|--------|
| 2mins | | | | | |
| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Frequency Tolerance (%) | Limit (%) | Result |
| 50 | 3.91 | 13.55994 | 0.0004 | ±0.01 | Pass |
| 40 | | 13.55995 | 0.0004 | | Pass |
| 30 | | 13.55995 | 0.0004 | | Pass |
| 20 | | 13.55995 | 0.0004 | | Pass |
| 10 | | 13.55995 | 0.0004 | | Pass |
| 0 | | 13.55995 | 0.0004 | | Pass |
| -10 | | 13.55995 | 0.0004 | | Pass |
| -20 | | 13.55995 | 0.0004 | | Pass |
| 20 | | 4.35 | 13.55994 | | 0.0004 |
| | 3.50 | 13.55995 | 0.0004 | Pass | |



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| Declared Frequency (MHz) | | 13.56MHz | | | | |
|--------------------------|--------------|----------------------------|-------------------------|-----------|--------|------|
| 5mins | | | | | | |
| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Frequency Tolerance (%) | Limit (%) | Result | |
| 50 | 3.91 | 13.55993 | 0.0005 | ±0.01 | Pass | |
| 40 | | 13.55995 | 0.0004 | | Pass | |
| 30 | | 13.55995 | 0.0004 | | Pass | |
| 20 | | 13.55995 | 0.0004 | | Pass | |
| 10 | | 13.55995 | 0.0004 | | Pass | |
| 0 | | 13.55995 | 0.0004 | | Pass | |
| -10 | | 13.55995 | 0.0004 | | Pass | |
| -20 | | 13.55995 | 0.0004 | | Pass | |
| 20 | | 4.35 | 13.55995 | | 0.0004 | Pass |
| | | 3.50 | 13.55995 | | 0.0004 | Pass |

| Declared Frequency (MHz) | | 13.56MHz | | | | |
|--------------------------|--------------|----------------------------|-------------------------|-----------|--------|------|
| 10mins | | | | | | |
| Temperature (°C) | Voltage(VDC) | Measurement Frequency(MHz) | Frequency Tolerance (%) | Limit (%) | Result | |
| 50 | 3.91 | 13.55993 | 0.0005 | ±0.01 | Pass | |
| 40 | | 13.55995 | 0.0004 | | Pass | |
| 30 | | 13.55995 | 0.0004 | | Pass | |
| 20 | | 13.55995 | 0.0004 | | Pass | |
| 10 | | 13.55995 | 0.0004 | | Pass | |
| 0 | | 13.55995 | 0.0004 | | Pass | |
| -10 | | 13.55995 | 0.0004 | | Pass | |
| -20 | | 13.55994 | 0.0004 | | Pass | |
| 20 | | 4.35 | 13.55995 | | 0.0004 | Pass |
| | | 3.50 | 13.55994 | | 0.0004 | Pass |



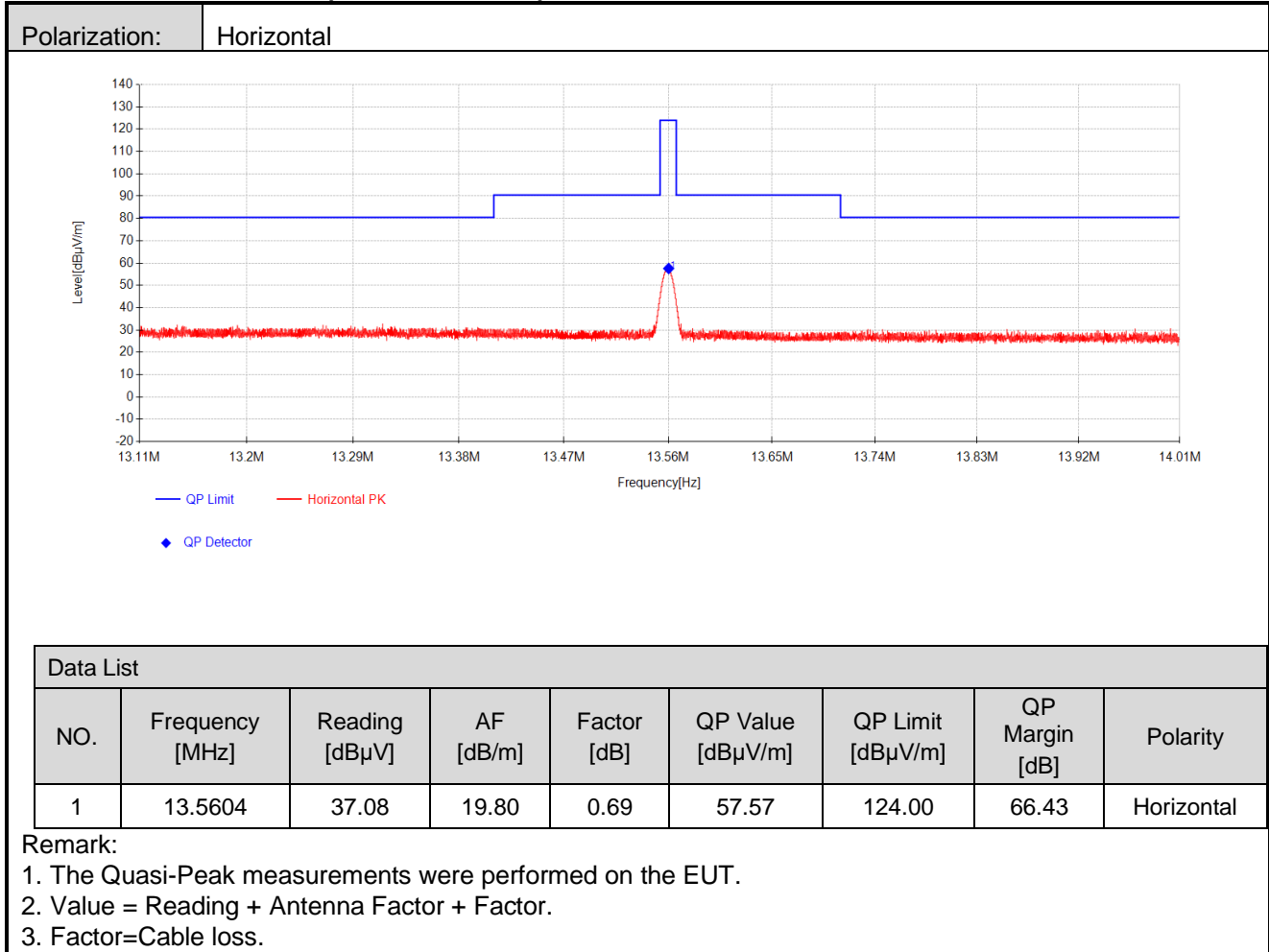
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Field Strength of Fundamental Emissions

NFC_Emission Mask(A Card Worse)

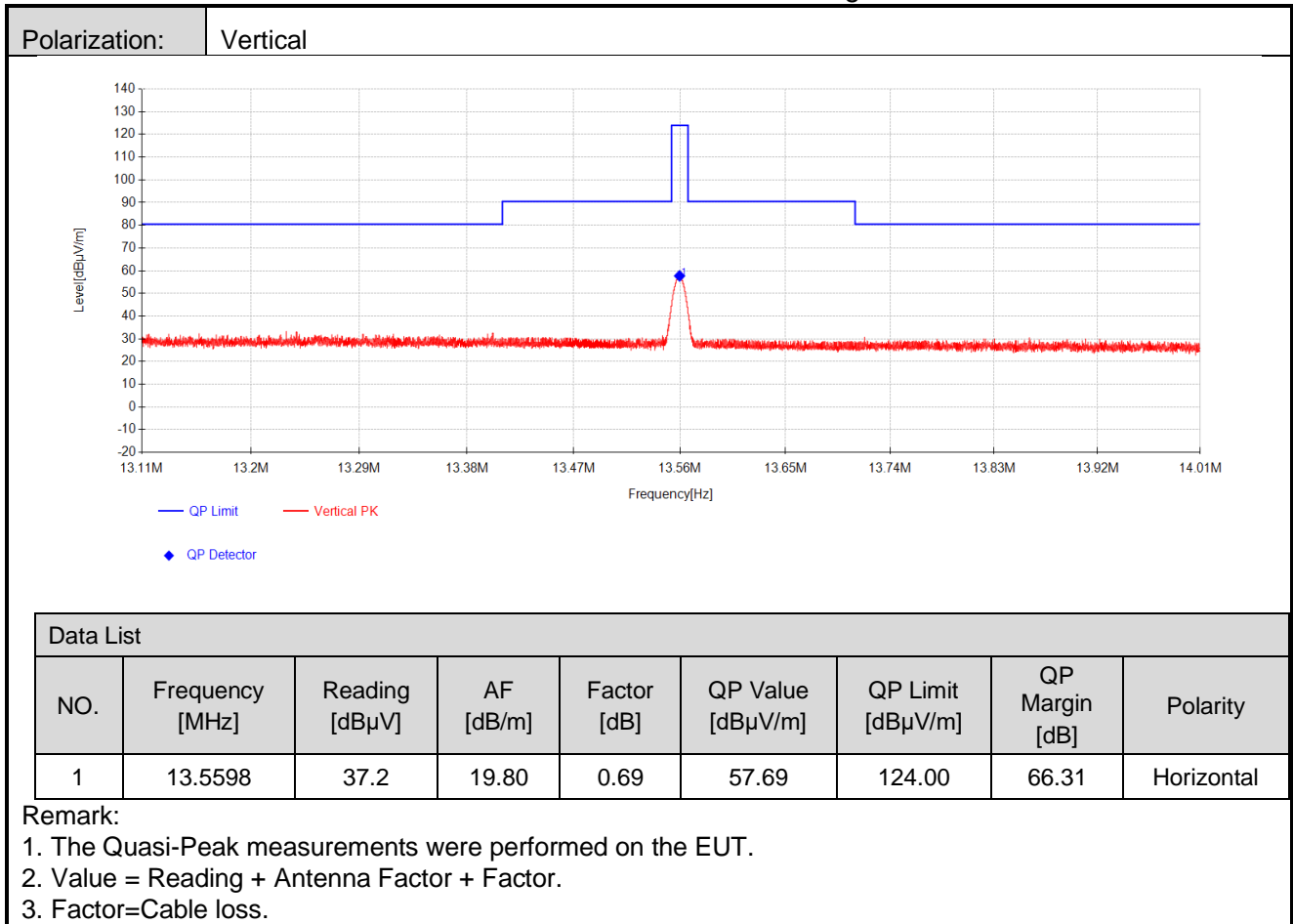


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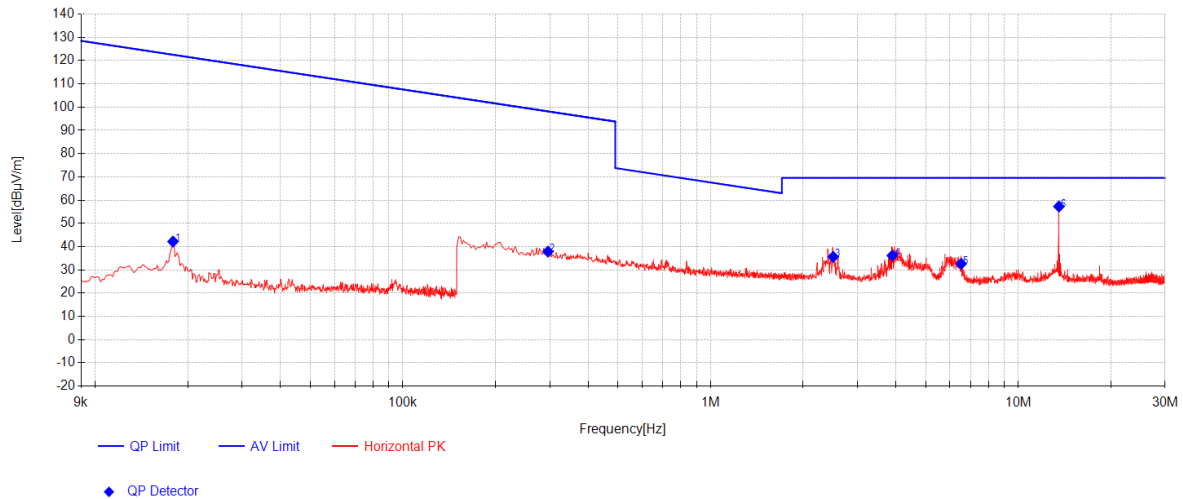
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Radiated Spurious Emissions

NFC_RSE(A Card Worse)

Polarization: Horizontal

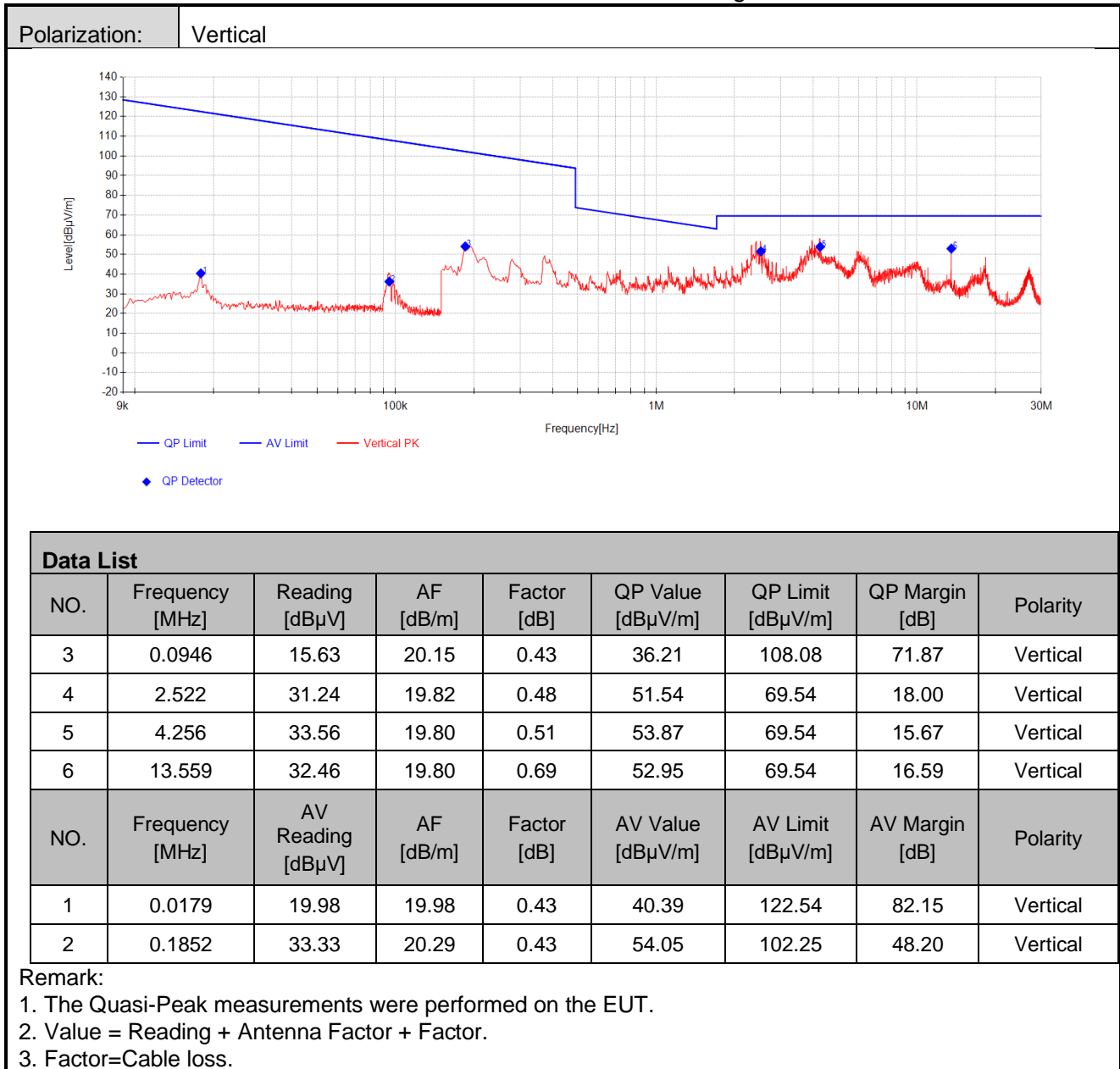


| Data List | | | | | | | | |
|-----------|-----------------|-------------------|-----------|-------------|-------------------|-------------------|----------------|------------|
| NO. | Frequency [MHz] | Reading [dBµV] | AF [dB/m] | Factor [dB] | QP Value [dBµV/m] | QP Limit [dBµV/m] | QP Margin [dB] | Polarity |
| 3 | 2.504 | 15.32 | 19.82 | 0.48 | 35.62 | 69.54 | 33.92 | Horizontal |
| 4 | 3.896 | 15.86 | 19.80 | 0.50 | 36.16 | 69.54 | 33.38 | Horizontal |
| 5 | 6.524 | 12.04 | 20.03 | 0.55 | 32.62 | 69.54 | 36.92 | Horizontal |
| 6 | 13.559 | 36.78 | 19.80 | 0.69 | 57.27 | 69.54 | 12.27 | Horizontal |
| NO. | Frequency [MHz] | AV Reading [dBµV] | AF [dB/m] | Factor [dB] | AV Value [dBµV/m] | AV Limit [dBµV/m] | AV Margin [dB] | Polarity |
| 1 | 0.0179 | 21.78 | 19.98 | 0.43 | 42.19 | 122.54 | 80.35 | Horizontal |
| 2 | 0.2962 | 17.18 | 20.26 | 0.44 | 37.87 | 98.17 | 60.30 | Horizontal |

- Remark:
1. The Quasi-Peak measurements were performed on the EUT.
 2. Value = Reading + Antenna Factor + Factor.
 3. Factor=Cable loss.



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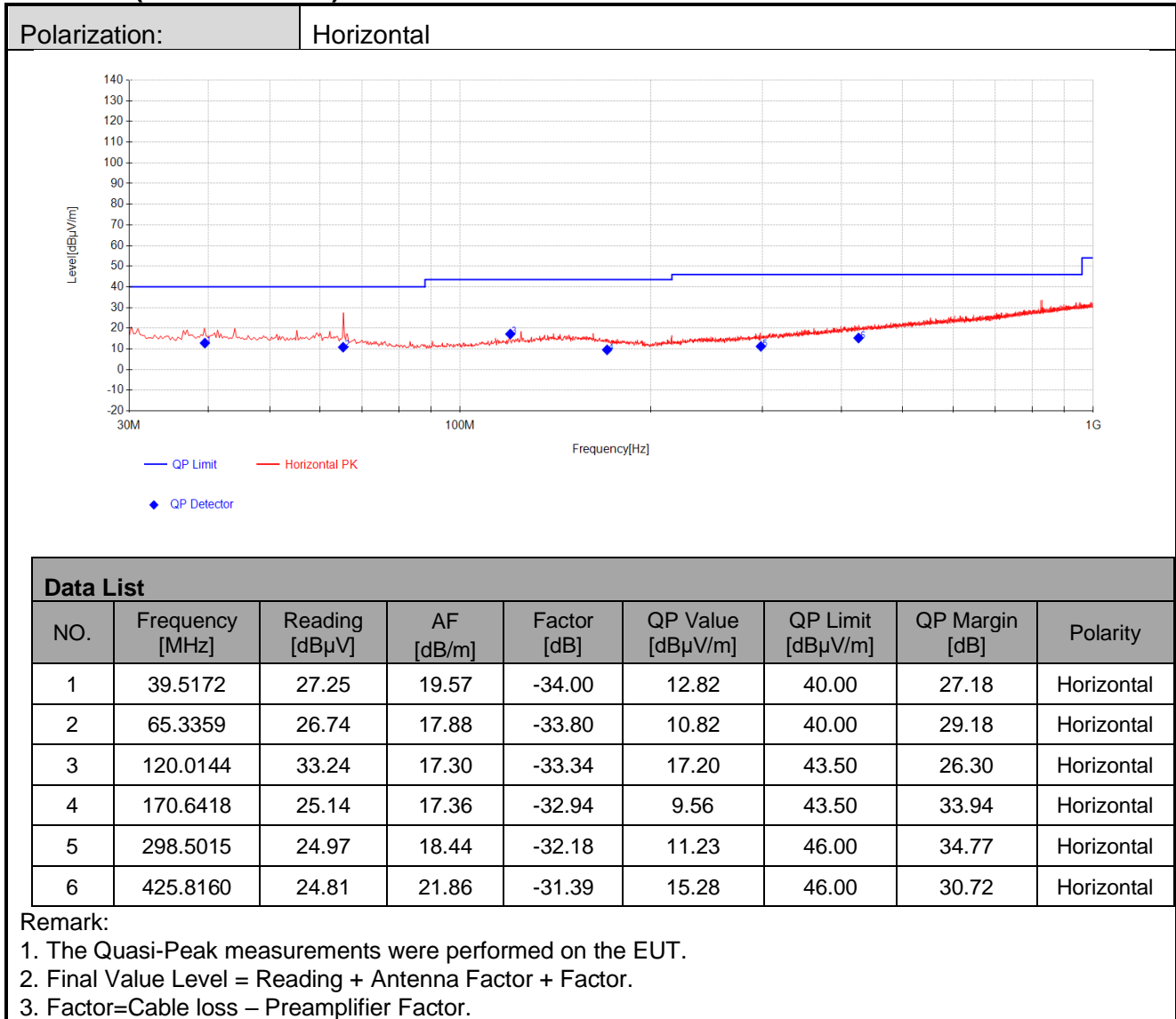


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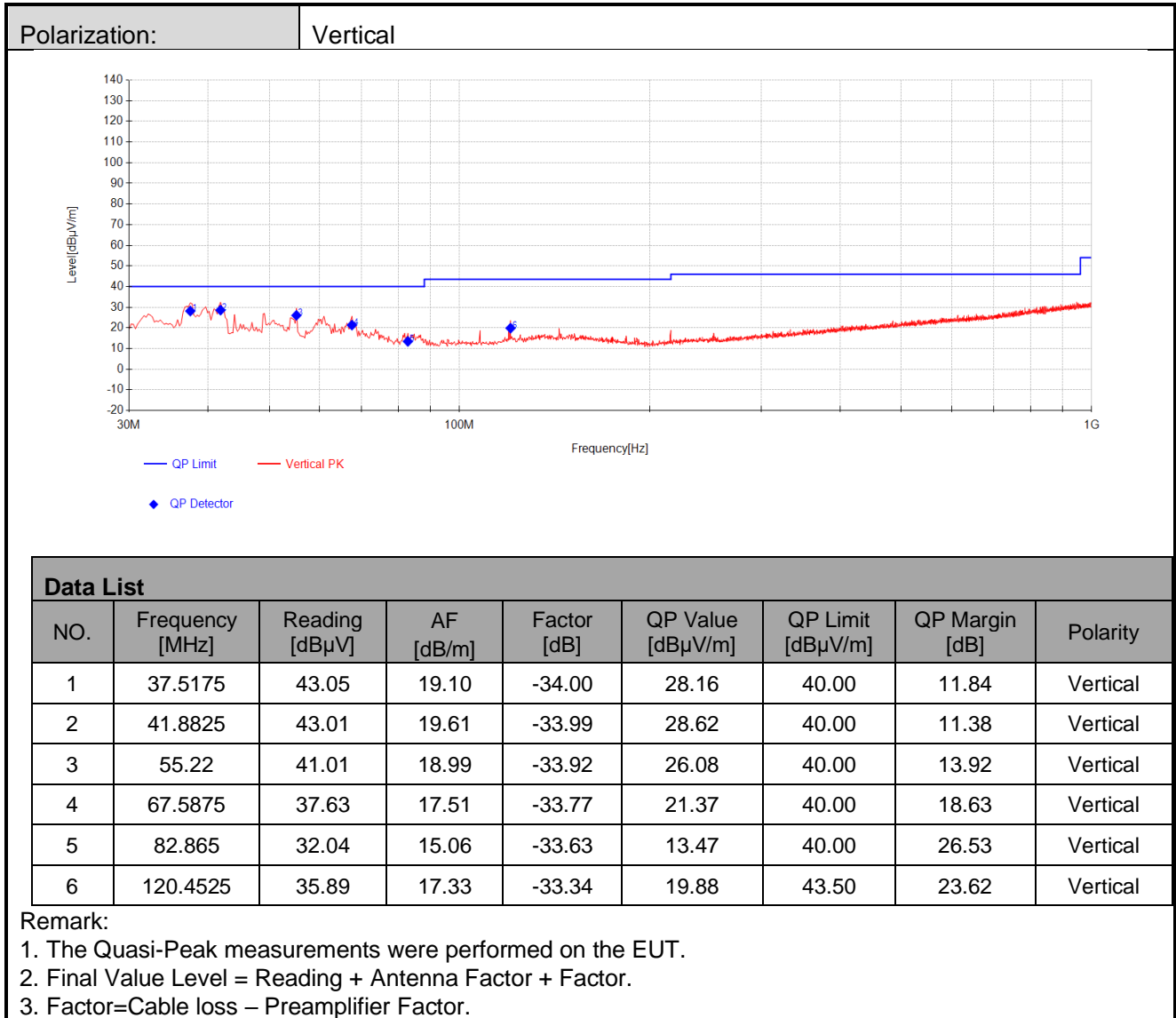
NFC_RE(A Card Worse)



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---End of Report---



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