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2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu
Yongin-si, Gyeonggi-do 17036, Korea (Republic of)
Main: +82-31-322-6767 / Fax: +82-31-322-6768

Test report No.:
TREFCC24-0078

FCC CERTIFICATION TEST REPORT

Test report No. : TREFCC24-0078
Applicant : WI.Plat Co., Ltd.
Address : 402, 106, Techno 2-ro, Yuseong-gu, Daejeon,
Republic of Korea
Manufacturer : WI.Plat Co., Ltd.
Address : 402, 106, Techno 2-ro, Yuseong-gu, Daejeon,
Republic of Korea
Type of equipment : Remote Data Transmitter
Model name : Sonic M2
Variant model name : Not applicable
FCC ID : 2BL33SONICM2
Date of incoming : October 18, 2024
Date of test : November 07, 2024
Date of issue : November 11, 2024
Test standards : ANSI C 63.4-2014
47 CFR Part 15 Subpart B
Type of device : All other devices
Test Result : Complied Not complied

Summary

The test results presented in this test report are limited only to the sample supplied by applicant and the use of this test report is inhibited other than its purpose. This test report shall not be reproduced except in full, without the written approval of Lab-T, Inc.

Prepared by

JiYeon Kim / EMC Test Engineer

Approved by

CheolHo, Lee / Technical manager

If this test report is required for confirmation of authenticity, please contact info@lab-t.net
This test report is not related to KOLAS.



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1. Revision history

| Issued report No. | Version | Issued date | Revision |
|-------------------|---------|-------------------|----------|
| TREFCC24-0078 | Rev. 00 | November 11, 2024 | Original |



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2. Information of test laboratory

| | |
|-----------------------|---|
| Corporate name | Lab-T, Inc. |
| Representative | Duke (Jongyoung) Kim |
| Address | 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu, Yongin-si Gyeonggi-do 17036, Korea (Republic of) |
| Telephone | +82-31-322-6767 |
| Fax | +82-31-322-6768 |
| E-mail | info@lab-t.net |

| | |
|------------------|---|
| Test site | Building L, A, T |
| Address | 2182-40, 2182-44, 2182-42 Baegok-daero, Mohyeon-eup, Cheoin-gu Yongin-si, Gyeonggi-do 17036, Korea (Republic of) |
| | |

* Lab-T, Inc. has been accredited / filed / authorized by the agencies listed in the following table.

| Certificate | Nation | Agency | Code | Mark |
|--------------------|---------------|----------------------|---|-------------|
| Accreditation | Korea | KOLAS | KT703 | |
| Site filing | USA | FCC | KR0159 | |
| | Japan | VCCI | R-14282, C-14764 T-12276, G-10886 G-10887 | |
| | Canada | Industry Canada (IC) | 22000 | |
| Certification | Korea | KC | KR0159 (RRA) KC2019-1 (KATS) | |
| | EU | TUV SUD | CARAT 093449 0009 | |
| | USA | UL | 1706-E-197 | |



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3. Applicant information

| | |
|------------------|---|
| Applicant | WI.Plat Co., Ltd. |
| Address | 402, 106, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea |

| | |
|--------------------------|---|
| Manufacturer | WI.Plat Co., Ltd. |
| Address | 402, 106, Techno 2-ro, Yuseong-gu, Daejeon, Republic of Korea |
| Country of origin | Korea |



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4. Description of EUT (Equipment under test)

4.1 Product description

| | |
|--------------------|-------------------------|
| Name of EUT | Remote Data Transmitter |
| Model name | Sonic M2 |

4.2 Product specification

Rated power : 3.7 V (Battery power)

4.3 EUT internal operating frequency

| Frequency | Description | Frequency | Description |
|-----------|-------------|-----------|-------------|
| 66 MHz | - | - | - |

4.4 Information of additional model

| Division | Model name | Difference |
|----------|------------|------------|
| - | - | - |

4.5 Peripheral equipment

| Product | Model name | Serial No. | Manufacturer |
|----------------------------------|------------|------------|---|
| Remote Data Transmitter (EUT) | Sonic M2 | - | WI.Plat Co., Ltd. / Korea |
| Adapter | CCGAN65UK | - | Shenzhen Times Innovation Technology Co., Ltd. / China |

4.6 Connection cable

| Start-up device | | Connected end device | | Cable specification | |
|-----------------|----------|----------------------|----------|---------------------|-------|
| Name | I/O port | Name | I/O port | Length (m) | Spec. |
| - | - | - | - | - | - |



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4.7 Test setup and configuration

Remote Data Transmitter
(EUT)

4.8 EUT operating test mode(s)

- The EUT was powered and tested using battery power.

4.9 EUT modification

- Not modification.



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5. Test standard

5.1 Standard

| Test item | Applied standard | Result |
|--|---|------------------|
| Conducted emission | 47 CFR FCC Part 15 Subpart B §15.107 (Class A) | N/A (*Note 1) |
| Radiated emission (30 MHz ~ 1 000 MHz) | 47 CFR FCC Part 15 Subpart B §15.109 (Class A) | C |
| Radiated emission (Above 1 GHz) | 47 CFR FCC Part 15 Subpart B §15.109 (Class A) | C |

* C=Comply, N/A=Not applicable
* Note1 : The test excluded as EUT is using Battery Power.

[Measurement uncertainty]

All measurements involve certain levels of uncertainties, especially in field of EMC.

The factors contributing to uncertainties are test receiver, cable loss, antenna factor calibration, Antenna directivity, antenna factor variation with height, antenna phase center variation, antenna frequency interpolation, measurement distance variation, site imperfection, mismatch, and system repeatability. Based on CISPR 16-4-2, the measurement uncertainty level with a 95 % confidence level was applied.

| Test item | Uncertainty | Confidence level of approximately |
|--|--------------------|-----------------------------------|
| Radiated emission (30 MHz to 1 000 MHz) | 30 MHz ~ 1 000 MHz | 4.80 dB |
| Radiated emission (Above 1 GHz) | Above 1 GHz | 5.06 dB |



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6. Emission test result

6.1 Conducted emission

| Test standard | 47 CFR FCC Part 15 Subpart B §15.107 |
|-------------------|--------------------------------------|
| Test date | - |
| Test facility | - |
| Test voltage | - |
| Temperature | - |
| Relative humidity | - |
| Test result | Not applicable |

6.1.1 Measurement procedure

If the EUT is table top equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 0.4 m from the conducting wall of the shielded room.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Connect the EUT's power source lines to the appropriate power mains / peripherals through the LISN. All the other peripherals are connected to the 2nd LISN & ISN, if any. Unused measuring port of the LISN & ISN was resistively terminated by 50 ohm terminator. The measuring port of the LISN for EUT was connected to spectrum analyzer. Using conducted emission test software, the emissions were scanned with peak detector mode. After scanning over the frequency range, suspected emissions were selected to perform final measurement. When performing final measurement, the receiver was used which has quasi-peak detector and CISPR average detector. By varying the configuration of the test sample and the cable routing it was attempted to maximize the emission.



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6.1.2 Test equipment used

| Equipment | Model | Manufacturer | Serial number | Next cal. date |
|-----------|-------|--------------|---------------|----------------|
| - | - | - | - | - |

* All test equipment used is calibrated on a regular basis.

6.1.3 Conducted emission limit

| Frequency (MHz) | Class A (dB(μV)) | | Class B (dB(μV)) | |
|--------------------|------------------|---------|------------------|----------|
| | Quasi-peak | Average | Quasi-peak | Average |
| 0.15 to 0.5 | 79 | 66 | 66 ~ 56* | 56 ~ 46* |
| 0.5 to 5 | 73 | 60 | 56 | 46 |
| 5 to 30 | | | 60 | 50 |

Remark 1: (*) The limit decreases linearly with the logarithm of frequency.



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6.1.4 Conducted emission test data

N/A



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6.2 Radiated emission (30 MHz ~ 1 000 MHz)

| Test standard | 47 CFR FCC Part 15 Subpart B §15.109 |
|-------------------|--------------------------------------|
| Test date | 2024.11.07 |
| Test facility | Building A 10 m chamber |
| Test voltage | AC 120 V, 60 Hz |
| Temperature | (17.4 ~ 17.9) °C |
| Relative humidity | (47.5 ~ 48.1) % R.H. |
| Test result | Complied |

6.2.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.8 m above the reference ground plane and 3 m away from the interference receiving antenna in the 10 m semi-anechoic chamber.

Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For 30 MHz ~ 1 000 MHz frequency range, quasi-peak detector with 120 kHz RBW was used.



6.2.2 Test equipment used

| Equipment | Model | Manufacturer | Serial number | Next cal. date |
|------------------------|------------------|--------------|---------------|----------------|
| EMI Test Receiver | ESW44 | R&S | 101839 | 2025.05.30 |
| Low Noise Preamplifier | MLA-10k01-b01-14 | TSJ | 2060297 | 2025.05.31 |
| Bi-Log Antenna | VULB9168 | Schwarzbeck | 00822 | 2025.03.09 |
| Attenuator | 50FPE-006N | JFW | 6 dB-1 | 2025.03.09 |
| Controller | CO3000 | Innco | 45450119 | - |
| Antenna Mast | MA4000-EP | Innco | - | - |
| Turn Table | - | - | - | - |
| EMI RE Software | EMI-R | TSJ | - | - |

* All test equipment used is calibrated on a regular basis.

6.2.3 Radiated emission limit

- The test frequency range of radiated disturbance measurements are listed below

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|--|---|
| Below 108 | 1 000 |
| 108 - 500 | 2 000 |
| 500 - 1 000 | 5 000 |
| Above 1 000 | 5th harmonic of the highest frequency or 40 GHz, whichever is lower |

- Limit for radiated emission below 1 000 MHz

| Frequency range (MHz) | Class A Equipment (10 m distance) | Class B Equipment (3 m distance) |
|-----------------------|-----------------------------------|----------------------------------|
| | Quasi-peak (dB(µV/m)) | Quasi-peak (dB(µV/m)) |
| 30 to 88 | 39.1 | 40 |
| 88 to 216 | 43.5 | 43.5 |
| 216 to 960 | 46.4 | 46 |
| 960 to 1 000 | 49.5 | 54 |

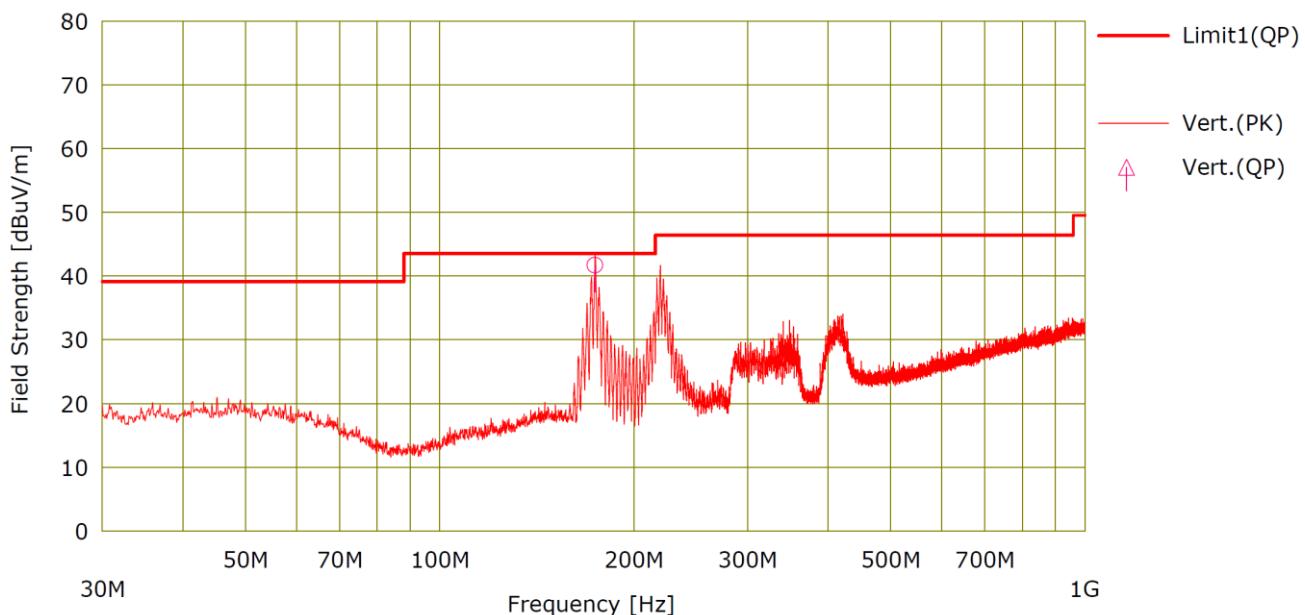
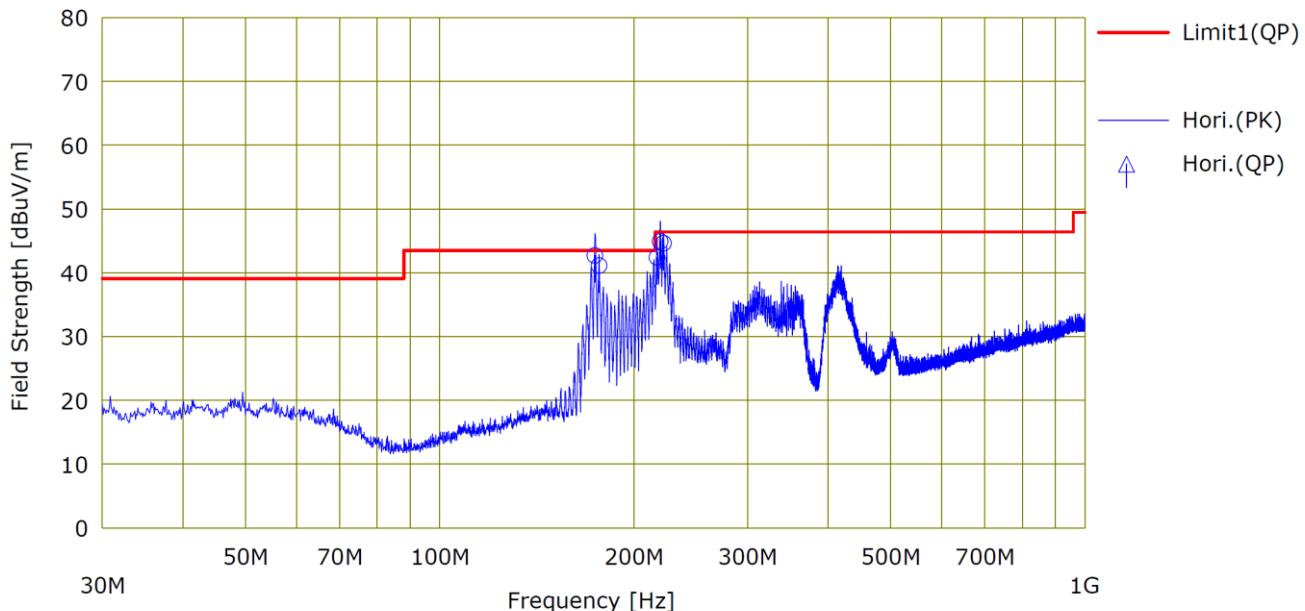
Note 1 The lower limit shall apply at the transition frequency.

Note 2 Additional provisions may be required for cases where interference occurs.

Note 3 According to 15.109(g), as an alternative to the radiated emission limit shown above, digital devices may be shown to comply with the standards(CISPR), Pub. 22 shown as below.

6.2.4 Radiated emission test data

* Minimum limit margin is 0.8 dB at 174.078 MHz (Horizontal)





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<< QP DATA >>

| No. | Freq. [MHz] | Reading <QP> | | Ant.Fac [dBuV] | Loss [dB] | Gain [dB] | Result <QP> | Limit <QP> | Margin <QP> | Pola. | Height [cm] | Angle [deg] | Ant. Type |
|-----|----------------|-----------------|--------|-------------------|--------------|--------------|----------------|---------------|----------------|-------|----------------|----------------|--------------|
| | | [dBuV] | [dB/m] | | | | [dBuV/m] | [dBuV/m] | [dB] | | | | |
| 1 | 174.078 | 62.5 | 18.0 | 62.5 | -37.8 | 0.0 | 42.7 | 43.5 | 0.8 | Hori. | 300 | 253 | VULB9 |
| 2 | 176.674 | 61.1 | 17.7 | 61.1 | -37.7 | 0.0 | 41.1 | 43.5 | 2.4 | Hori. | 300 | 264 | VULB9 |
| 3 | 217.311 | 62.8 | 17.1 | 62.8 | -37.5 | 0.0 | 42.4 | 46.4 | 4.0 | Hori. | 300 | 125 | VULB9 |
| 4 | 219.742 | 64.6 | 17.8 | 64.6 | -37.5 | 0.0 | 44.9 | 46.4 | 1.5 | Hori. | 300 | 68 | VULB9 |
| 5 | 222.328 | 64.1 | 18.0 | 64.1 | -37.5 | 0.0 | 44.6 | 46.4 | 1.8 | Hori. | 300 | 85 | VULB9 |
| 6 | 174.098 | 61.5 | 18.0 | 61.5 | -37.8 | 0.0 | 41.7 | 43.5 | 1.8 | Vert. | 300 | 218 | VULB9 |

* Results [dB(μ V/m)] = Reading [dB(μ V)] + Antenna factor [dB/m] - Loss [dB]

* Loss = Cable loss [dB] - Amp gain [dB]

* Margin [dB] = Limit [dB(μ V/m)] - Results [dB(μ V/m)]

* QP: Quasi-peak

* ex) Measure Value [QP]

Frequency: 174.078 MHz

Result [dB μ V/m] = 42.7, Reading [dB μ V/m] = 62.5, Antenna factor [dB/m] = 18.0, Loss [dB] = -37.8, Amp gain [dB] = 0.0

42.7 dB μ V/m = 62.5 dB μ V/m + 18.0 dB/m - 37.8 dB - 0.0 dB

Margin [dB μ V/m] = 0.8, Limit [dB μ V/m] = 43.5, Result [dB μ V/m] = 42.7

0.8 dB μ V/m = 43.5 dB μ V/m - 42.7 dB μ V/m



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6.3 Radiated emission (Above 1 GHz)

| Test standard | 47 CFR FCC Part 15 Subpart B §15.109 |
|-------------------|--------------------------------------|
| Test date | 2024.11.07 |
| Test facility | Building A 10 m chamber |
| Test voltage | AC 120 V, 60 Hz |
| Temperature | (17.9 ~ 18.2) °C |
| Relative humidity | (48.1 ~ 48.5) % R.H. |
| Test result | Complied |

6.3.1 Measurement procedure

If the EUT is tabletop equipment, it was placed on a non-metal table with a height of 0.1 m above the reference ground plane and 3 m away from the interference receiving antenna in the 10 m chamber. Also if the EUT is floor-standing equipment, it was placed either directly on the reference ground plane or on insulating material as described in ANSI C 63.4 6.3.3.2. Rotate the EUT from (0 - 360)° and position the receiving antenna at heights from (1 - 4) m above the reference ground plane continuously to determine associated with higher emission levels and record them.

The measurement was made in both the vertical and horizontal polarization, and the maximum value is presented in the report. For peak and average detector with 1 MHz RBW were used for above 1 GHz frequency range.



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6.3.2 Test equipment used

| Equipment | Model | Manufacturer | Serial number | Next cal. date |
|------------------------|--------------------------------------|---------------------------|---------------|----------------|
| EMI Test Receiver | ESW44 | R&S | 101839 | 2025.05.30 |
| Low Noise Preamplifier | MLA-0108-J02-39 | TSJ | 20755 | 2025.05.31 |
| Horn Antenna | BBHA 9120 D | Schwarzbeck | 02067 | 2025.05.31 |
| Controller | CO3000 | Innco | 45450119 | - |
| Antenna Mast | MA4640-XP-ET | Innco | - | - |
| Turn Table | - | - | - | - |
| BAND REJECT FILTER | WRCGV10-2363.5-2400-2483.5-2520-60SS | WAINWRIGHTINSTRUMENTSGMBH | 7 | 2025.04.02 |
| EMI RE Software | EMI-R | TSJ | - | - |

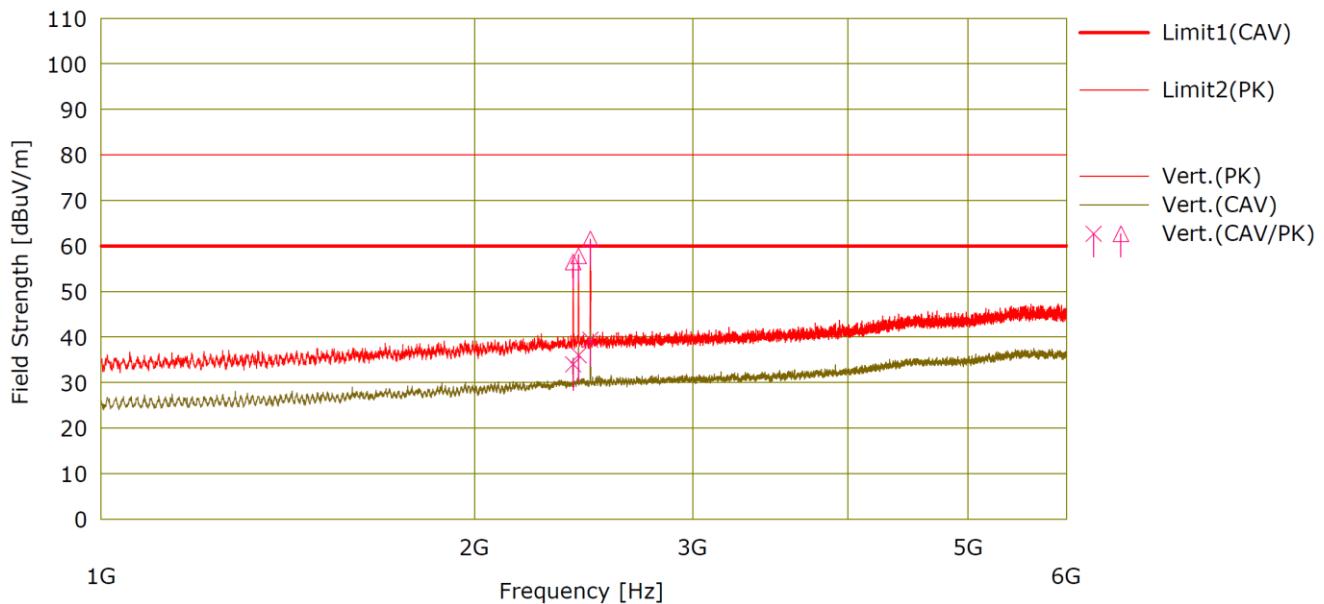
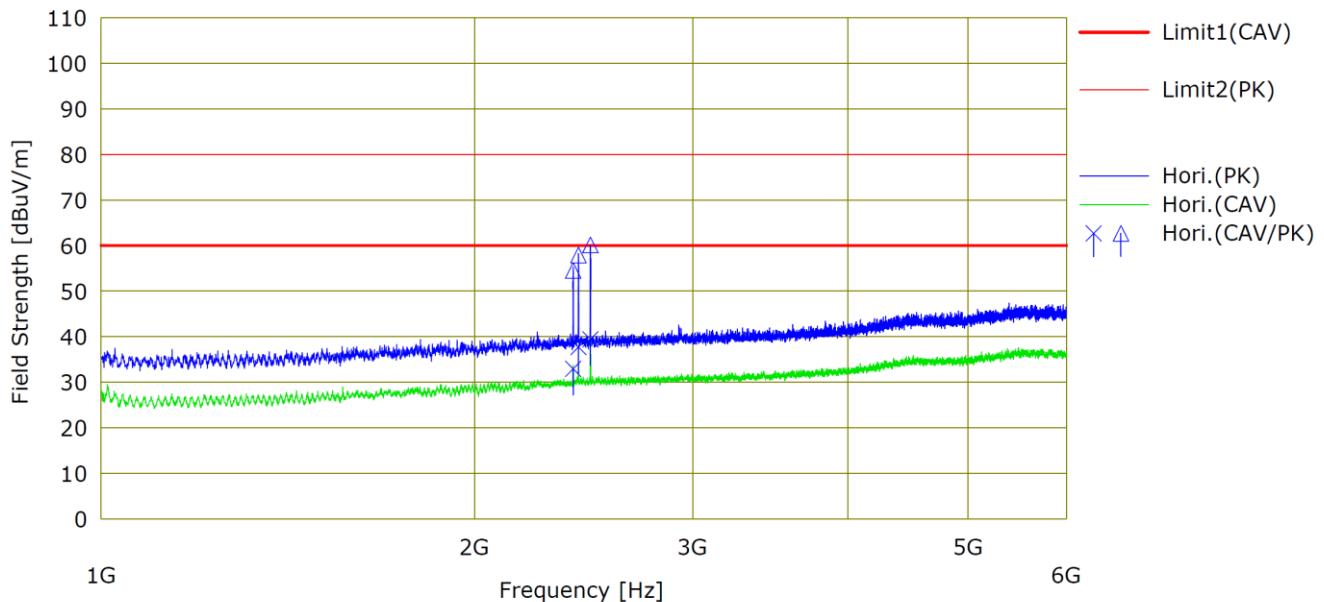
* All test equipment used is calibrated on a regular basis

6.3.3 Radiated emission limits

| Frequency (GHz) | Class A equipment (3 m distance) (dB(μ V/m)) | | Class B equipment (3 m distance) (dB(μ V/m)) | |
|--------------------|---|---------------|---|---------------|
| | Peak | CISPR Average | Peak | CISPR Average |
| Above 1 | 80 | 60 | 74 | 54 |
| | | | | |

6.3.4 Radiated emission test data

* Minimum limit margin is 18.5 dB at 2480.287 MHz (Vertical)





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<< CAV/PK DATA >>

| No. | Freq. [MHz] | Reading | | Ant.Fac [dB/m] | Loss [dB] | Gain [dB] | S.Fac [dB] | Result | | Limit | | Margin | | Pola. | Height [cm] | Angle [deg] | Ant. Type |
|-----|----------------|-----------------|----------------|-------------------|--------------|--------------|---------------|-------------------|------------------|-------------------|------------------|---------------|--------------|-------|----------------|----------------|--------------|
| | | <CAV> [dBuV] | <PK> [dBuV] | | | | | <CAV> [dBuV/m] | <PK> [dBuV/m] | <CAV> [dBuV/m] | <PK> [dBuV/m] | <CAV> [dB] | <PK> [dB] | | | | |
| | | | | | | | | | | | | | | | | | |
| 1 | 2401.979 | 38.5 | 60.1 | 27.3 | -36.4 | 0.0 | 3.5 | 32.9 | 54.5 | 60.0 | 80.0 | 27.1 | 25.5 | Hori. | 400 | 349 | 3BHA9 |
| 2 | 2425.557 | 43.2 | 63.4 | 27.3 | -36.3 | 0.0 | 3.5 | 37.7 | 57.9 | 60.0 | 80.0 | 22.3 | 22.1 | Hori. | 200 | 21 | 3BHA9 |
| 3 | 2480.111 | 44.6 | 65.3 | 27.5 | -36.2 | 0.0 | 3.5 | 39.4 | 60.1 | 60.0 | 80.0 | 20.6 | 19.9 | Hori. | 200 | 73 | 3BHA9 |
| 4 | 2402.061 | 39.6 | 62.1 | 27.3 | -36.4 | 0.0 | 3.5 | 34.0 | 56.5 | 60.0 | 80.0 | 26.0 | 23.5 | Vert. | 100 | 307 | 3BHA9 |
| 5 | 2426.160 | 41.5 | 63.3 | 27.3 | -36.3 | 0.0 | 3.5 | 36.0 | 57.8 | 60.0 | 80.0 | 24.0 | 22.2 | Vert. | 100 | 289 | 3BHA9 |
| 6 | 2480.287 | 44.6 | 66.7 | 27.5 | -36.2 | 0.0 | 3.5 | 39.4 | 61.5 | 60.0 | 80.0 | 20.6 | 18.5 | Vert. | 200 | 173 | 3BHA9 |

* Results [dB(μV/m)] = Reading [dB(μV)] + Antenna factor [dB/m] - Loss [dB] + S.Fac

* Loss = Cable loss [dB] - Amp gain [dB]

* Margin [dB] = Limit [dB(μV/m)] - Results [dB(μV/m)]

* PK = Peak, CAV = CISPR Average

* ex) Measure Value[CAV]

Frequency: 2401.979 MHz

Results [dB μ V/m] = 32.9, Reading [dB μ V/m] = 38.5, Antenna factor [dB/m] = 27.3, Loss [dB] = 36.4

Amp gain [dB] = 0.0, S.Fac [dB] = 3.5

32.9 dB μ V/m = 38.5 dB μ V/m + 27.3 dB/m + 36.4 dB - 0.0 dB + 3.5 dB

Margin [dB] = 27.1, Limit [dB μ V/m] 60.0, Result [dB μ V/m] = 32.9

27.1 dB = 60.0 dB μ V/m - 32.9 dB μ V/m

- END -