



Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 1 of 25

TEST REPORT

Application No.: KSCR2308001517AT
FCC ID: 2AH25K2
IC: 22621-K2
Applicant: Shanghai Sunmi Technology Co.,Ltd.
Address of Applicant: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai,China
Manufacturer: Shanghai Sunmi Technology Co.,Ltd.
Address of Manufacturer: Room 505, No.388 Song Hu Road, Yang Pu District, Shanghai,China
Equipment Under Test (EUT):
EUT Name: Self-Checkout Kiosk
Model No.: F4E00
HVIN: F4E00-A
Standard(s) : 47 CFR Part 15, Subpart C 15.209
RSS-210 issue 10 Amendment (April 2020)
RSS-Gen Issue 5 Amendment 2 (February 2021)
Date of Receipt: 2023-08-29
Date of Test: 2023-09-08 to 2023-09-15
Date of Issue: 2023-11-17

| | |
|---------------------|-------|
| Test Result: | Pass* |
|---------------------|-------|

* In the configuration tested, the EUT complied with the standards specified above.

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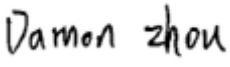
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 2 of 25

| Revision Record | | | |
|------------------------|--------------------|-------------|---------------|
| Version | Description | Date | Remark |
| 00 | Original | 2023-11-17 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|--|--|--|
| Authorized for issue by: | | | |
| Tested By |  Damon Zhou | | |
| | Damon_Zhou/Project Engineer | | |
| Approved By |  Terry Hou | | |
| | Terry Hou /Reviewer | | |

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 3 of 25

2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|----------------------------------|----------------|---|----------------------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.209 | N/A | RSS-210 Issue 10 Amendment (April 2020) | Customer Declaration |

| Radio Spectrum Matter Part | | | | |
|---|----------------------------------|---|----------------------------------|--------|
| Item | FCC Requirement | IC Requirement | Method | Result |
| 20dB Bandwidth | 47 CFR Part 15, Subpart C 15.209 | RSS-210 Issue 10 Amendment (April 2020) | ANSI C63.10 (2013) Section 6.9.2 | Pass |
| Radiated Emissions (9kHz-30MHz) | 47 CFR Part 15, Subpart C 15.209 | RSS-210 Issue 10 Amendment (April 2020) | ANSI C63.10 (2013) Section 6.4 | Pass |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart C 15.209 | RSS-210 Issue 10 Amendment (April 2020) | ANSI C63.10 (2013) Section 6.5 | Pass |
| Conducted Emissions at AC Mains Power Port (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.209 | RSS-210 Issue 10 Amendment (April 2020) | ANSI C63.10 (2013) Section 6.2 | Pass |
| 99% Bandwidth | 47 CFR Part 15, Subpart C 15.209 | RSS-210 Issue 10 Amendment (April 2020) | RSS-Gen Issue 5 Section 6.7 | Pass |

3 Contents

| | Page |
|---|-----------|
| 1 COVER PAGE | 1 |
| 2 Test Summary | 3 |
| 3 Contents | 4 |
| 4 General Information | 5 |
| 4.1 Details of E.U.T. | 5 |
| 4.2 Description of Support Units | 5 |
| 4.3 Measurement Uncertainty | 5 |
| 4.4 Test Location | 6 |
| 4.5 Test Facility | 6 |
| 4.6 Deviation from Standards | 6 |
| 4.7 Abnormalities from Standard Conditions | 6 |
| 5 Equipment List | 7 |
| 6 Radio Spectrum Technical Requirement | 8 |
| 6.1 Antenna Requirement | 8 |
| 7 Radio Spectrum Matter Test Results | 9 |
| 7.1 20dB Bandwidth | 9 |
| 7.2 Radiated Emissions (9kHz-30MHz) | 10 |
| 7.3 Radiated Emissions (30MHz-1GHz) | 12 |
| 7.4 Conducted Emissions at AC Mains Power Port (150kHz-30MHz) | 14 |
| 7.5 99% Bandwidth | 18 |
| 8 Test Setup Photo | 19 |
| 9 EUT Constructional Details (EUT Photos) | 19 |
| 10 Appendix | 20 |
| 10.1 20dB Bandwidth | 20 |
| 10.2 Radiated Emissions(9kHz-30MHz) | 22 |
| 10.3 Below 1GHz | 24 |

4 General Information

4.1 Details of E.U.T.

| | |
|----------------------|--------------------------|
| Power supply: | AC 100-120V,1.5A,50/60Hz |
| Antenna Type: | Loop Antenna |
| Modulation Type: | ASK |
| Number of Channels: | 1 |
| Operation Frequency: | 125KHz |
| Serial Number: | K217232800030 |
| Firmware Version: | 1.5.3 |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|-----------|------------|
| -- | -- | -- | -- |

The EUT has been tested as an independent unit.

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|--|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 3 | Duty Cycle | 0.37% |
| 4 | Occupied Bandwidth | 3% |
| 5 | RF Conducted Power | 0.6dB |
| 6 | RF Power Density | 2.9dB |
| 7 | Conducted Spurious Emissions | 0.75dB |
| 8 | RF Radiated Power | 5.2dB (Below 1GHz) 5.9dB (Above 1GHz) |
| 9 | Radiated Spurious Emission Test | 4.2dB (Below 30MHz) 4.5dB (30MHz-1GHz) 5.1dB (1GHz-18GHz) 5.4dB (Above 18GHz) |
| 10 | Temperature Test | 1°C |
| 11 | Humidity Test | 3% |
| 12 | Supply Voltages | 1.5% |
| 13 | Time | 3% |

Note: The measurement uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 6 of 25

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc.

No.10 Weiye Rd, Innovation park, Eco&Tec, Development Zone, Kunshan City, Jiangsu, China.

Tel: +86 512 5735 5888 Fax: +86 512 5737 0818

No tests were sub-contracted.

Note:

1. SGS is not responsible for wrong test results due to incorrect information (e.g., max. internal working frequency, antenna gain, cable loss, etc) is provided by the applicant. (If applicable).
2. SGS is not responsible for the authenticity, integrity and the validity of the conclusion based on results of the data provided by applicant. (If applicable).
3. Sample source: sent by customer.

4.5 Test Facility

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

- **A2LA**

Compliance Certification Services (Kunshan) Inc. is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 2541.01.

- **FCC**

Compliance Certification Services (Kunshan) Inc. has been recognized as an accredited testing laboratory. Designation Number: CN1172.

- **ISED**

Compliance Certification Services (Kunshan) Inc. has been recognized by Innovation, Science and Economic Development Canada (ISED) as an accredited testing laboratory. Company Number: 2324E

- **VCCI**

The 3m and 10m Semi-anechoic chamber and Shielded Room of Compliance Certification Services (Kunshan) Inc. has been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-20134, R-11600, C-11707, T-11499, G-10216 respectively.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None

Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 7 of 25

5 Equipment List

| Item | Equipment | Manufacturer | Model | Inventory No | Cal Date | Cal. Due Date |
|---|--------------------------------------|--------------------|---------------|-------------------|------------|---------------|
| Conducted Emission at Mains Terminals (150kHz-30MHz) | | | | | | |
| 1 | EMI Test Receive | R&S | ESCI | KS301101 | 02/03/2023 | 02/02/2024 |
| 2 | LISN | R&S | ENV216 | KS301197 | 01/17/2023 | 01/16/2024 |
| 3 | LISN | Schwarzbeck | NNLK 8129 | KS301091 | 01/17/2023 | 01/16/2024 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | KUS1902E001 | 01/17/2023 | 01/16/2024 |
| 5 | CE test Cable | Thermax | / | CZ301102 | 01/17/2023 | 01/16/2024 |
| 6 | Test Software | Farad | EZ-EMC | / | N.C.R | N.C.R |
| RF Conducted Test | | | | | | |
| 1 | Spectrum Analyzer | Keysight | N9020A | KUS1911E004-2 | 08/24/2023 | 08/23/2024 |
| 2 | Spectrum Analyzer | Keysight | N9020A | KUS2001M001-2 | 08/24/2023 | 08/23/2024 |
| 3 | Spectrum Analyzer | Keysight | N9030B | KSEM021-1 | 02/03/2023 | 02/02/2024 |
| 4 | Signal Generator | R&S | SMBV100B | KSEM032 | 03/16/2023 | 03/15/2024 |
| 5 | Signal Generator | R&S | SMW200A | KSEM020-1 | 08/24/2023 | 08/23/2024 |
| 6 | Signal Generator | Agilent | N5182A | KUS2001M001-1 | 08/24/2023 | 08/23/2024 |
| 7 | Radio Communication Test Station | Anritsu | MT8000A | KSEM001-1 | 08/24/2023 | 08/23/2024 |
| 8 | Radio Communication Analyzer | Anritsu | MT8821C | KSEM002-1 | 03/16/2023 | 03/15/2024 |
| 9 | Universal Radio Communication Tester | R&S | CMW500 | KUS1911E004-1 | 08/24/2023 | 08/23/2024 |
| 10 | Switcher | CCSRF | FY562 | KUS2001M001-3 | 08/24/2023 | 08/23/2024 |
| 11 | AC Power Source | EXTECH | 6605 | KS301178 | N.C.R | N.C.R |
| 12 | DC Power Supply | Agilent | E3632A | KS301180 | N.C.R | N.C.R |
| 13 | Conducted Test Cable | Thermax | RF01-RF04 | CZ301111-CZ301120 | 02/03/2023 | 02/02/2024 |
| 14 | Temp. / Humidity Chamber | TERCHY | MHK-120AK | KS301190 | 08/24/2023 | 08/23/2024 |
| 15 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-5 | 03/22/2023 | 03/21/2024 |
| 16 | Software | BST | TST-PASS | / | N/A | N/A |
| 17 | Spectrum Analyzer | R&S | FSV40 | KUS1806E003 | 08/24/2023 | 08/23/2024 |
| RF Radiated Test | | | | | | |
| 1 | Spectrum Analyzer | R&S | FSV40 | KUS1806E003 | 08/24/2023 | 08/23/2024 |
| 2 | Universal Radio Communication Tester | R&S | CMW500 | KSEM009-1 | 03/16/2023 | 03/15/2024 |
| 3 | Signal Generator | Agilent | E8257C | KS301066 | 08/24/2023 | 08/23/2024 |
| 4 | Loop Antenna | COM-POWER | AL-130R | KUS1806E001 | 03/18/2023 | 03/17/2025 |
| 5 | Bilog Antenna | TESEQ | CBL 6112D | KUS1806E005 | 06/29/2023 | 06/28/2025 |
| 6 | Bilog Antenna | SCHWARZBECK | VULB9160 | CZ301016 | 04/13/2021 | 04/12/2024 |
| 7 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | KS301079 | 08/24/2023 | 08/23/2024 |
| 8 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | KS301186 | 02/21/2023 | 02/20/2024 |
| 9 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | CZ301058 | 02/26/2023 | 02/25/2024 |
| 10 | Amplifier(30MHz~18GHz) | PANSHAN TECHNOLOGY | LNA:1~18G | KSEM010-1 | 01/17/2023 | 01/16/2024 |
| 11 | Amplifier(18~40GHz) | COM-POWER | PAM-840A | KUS1710E001 | 01/21/2023 | 01/20/2024 |
| 12 | RE Test Cable | REBES MICROWAVE | / | CZ301097 | 08/24/2023 | 08/23/2024 |
| 13 | Temperature & Humidity Recorder | Renke Control | RS-WS-N01-6J | KSEM024-4 | 03/22/2023 | 03/21/2024 |
| 14 | Software | ESE | E3 | / | N/A | N/A |
| 15 | Software | Faratronic | EZ_EMCA-v 3A1 | / | N/A | N/A |

6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203

6.1.2 Conclusion

Standard 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 antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit permanently attached antenna or of an so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

EUT Antenna:

The antenna is integrated Loop Antenna and no consideration of replacement.

Antenna location: Refer to Appendix (Internal Photos)

7 Radio Spectrum Matter Test Results

7.1 20dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9.2

Measurement Distance: 3m

7.1.1 E.U.T. Operation

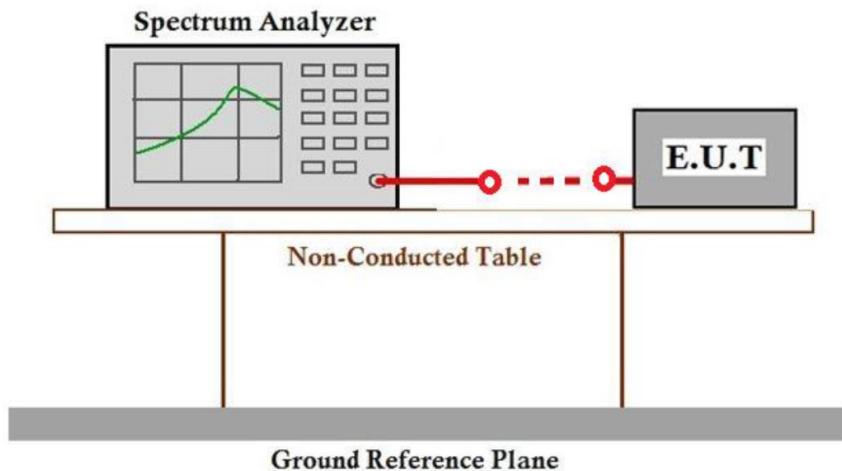
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.1.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|-------------------------|
| Final test | 08 | TX mode with modulation |

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.2 Radiated Emissions (9kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |

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. 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.

If field strength is measured at only a single point, then that point shall be at the radial from the EUT that produces the maximum emission at the frequency being measured, as described in 5.4. If that point is closer to the EUT than $\lambda/2\pi$ and the limit distance is greater than $\lambda/2\pi$, the measurement shall be extrapolated to the limit distance by conservatively presuming that the field strength decreases at a 40 dB/decade of distance rate to the $\lambda/2\pi$ distance, and at a 20 dB/decade of distance rate beyond $\lambda/2\pi$. This shall be accomplished using Equation (2):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(near field)}/d_{(10m)}\} + 20\log\{d_{(30/300m)}/d_{(near field)}\} \quad (2)$$

If the single point measured is at a distance greater than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (3):

$$FS_{(10m)} = FS_{(30/300m)} + 20\log\{d_{(30/300m)}/d_{(10m)}\} \quad (3)$$

If both the single point and the limit distance are equal to or closer to the EUT than $\lambda/2\pi$, then extrapolation to the limit distance shall be calculated using Equation (4):

$$FS_{(10m)} = FS_{(30/300m)} + 40\log\{d_{(30/300m)}/d_{(10m)}\} \quad (4)$$

Remark:

$$d_{near field} = 47.77 / f_{MHz}$$

where f_{MHz} is the frequency of the emission being measured in MHz.

7.2.1 E.U.T. Operation

Operating Environment:

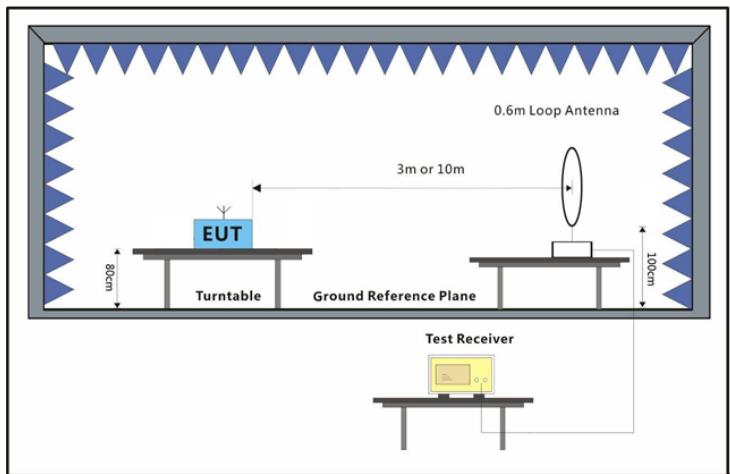
Temperature: 24 °C

Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|-------------------------|
| Final test | 08 | TX mode with modulation |

7.2.3 Test Setup Diagram**7.2.4 Measurement Procedure and Data**

- a. All radiated emission measurements in terms of magnetic field strength shall be performed with a shielded loop antenna.
- b. For all radiated emission measurements in terms of magnetic field strength, the loop antenna were placed such that:
 - i. its centre shall be at 1.3 m height above the ground plane;
 - ii. the projection of its centre onto the ground plane shall be at the specified measurement distance from the projection on the ground plane of the closest point on the boundary of the equipment under test (EUT); and
 - iii. measurements shall be performed with the loop antenna placed vertically, in turn, in two polarizations (the measurement axis specified below is the line segment connecting the projections on the ground plane of the centre of the loop antenna and the centre of the EUT arrangement):
 - coaxial (loop plane perpendicular to the ground plane and to the measurement axis); and
 - coplanar (loop plane perpendicular to the ground plane and coplanar with the measurement axis).

Please Refer to Appendix for Details

7.3 Radiated Emissions (30MHz-1GHz)

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.5

Measurement Distance: 3m

Limit:

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 24 °C

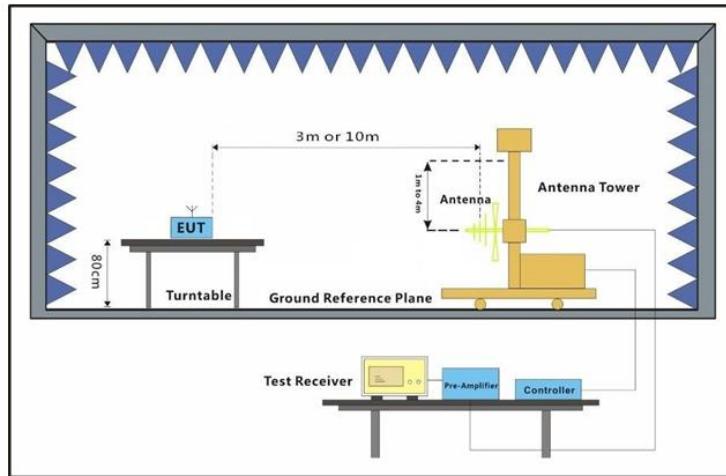
Humidity: 48 % RH

Atmospheric Pressure: 1010 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|-------------------------|
| Final test | 08 | TX mode with modulation |

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground for below 1GHz at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. 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.
- c. 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.
- d. 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.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel
- h. 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.
- i. Repeat above procedures until all frequencies measured was complete.

Remark: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Please Refer to Appendix for Details

7.4 Conducted Emissions at AC Mains Power Port (150kHz-30MHz)

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

| Frequency of emission(MHz) | Conducted limit(dB μ V) | |
|----------------------------|-----------------------------|-----------|
| | 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.

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 25.6 °C

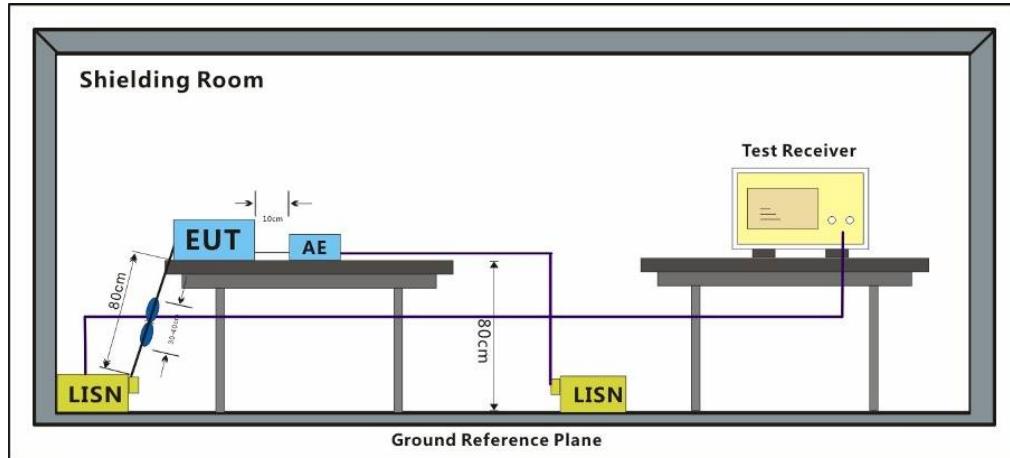
Humidity: 51.5 % RH

Atmospheric Pressure: 1010 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|-------------------------|
| Final test | 08 | TX mode with modulation |

7.4.3 Test Setup Diagram

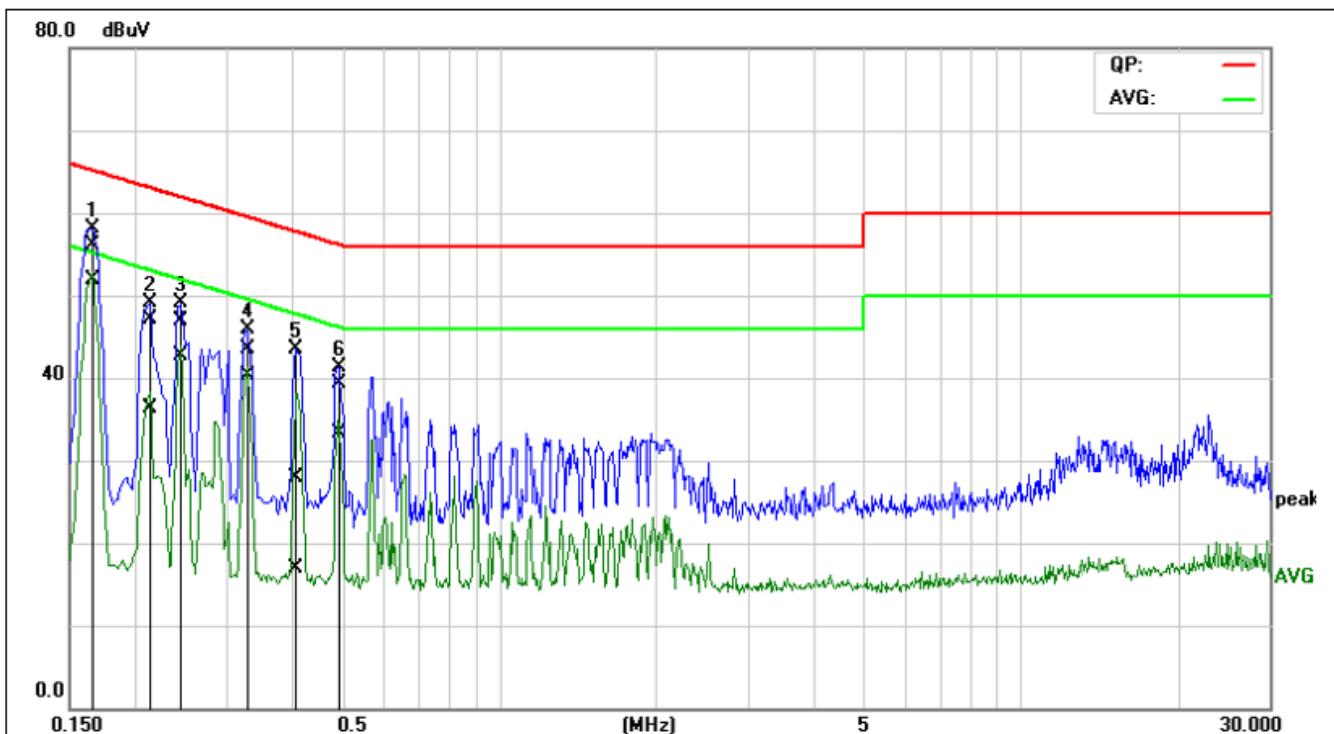


7.4.4 Measurement Procedure and Data

- 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 50ohm/50 μ H + 5ohm 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 on conducted measurement.

Remark: Level=Read Level+ Cable Loss+ LISN Factor

Test Mode: 08; Line: Live line



| No. | Frequency (MHz) | QuasiPeak reading (dBuV) | Average reading (dBuV) | Correction factor (dB) | QuasiPeak result (dBuV) | Average result (dBuV) | QuasiPeak limit (dBuV) | Average limit (dBuV) | QuasiPeak margin (dB) | Average margin (dB) | Remark |
|-----|--------------------|--------------------------------|------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------|----------------------------|-----------------------------|---------------------------|--------|
| 1 | 0.1660 | 36.06 | 31.67 | 20.14 | 56.20 | 51.81 | 65.15 | 55.16 | -8.95 | -3.35 | Pass |
| 2 | 0.2140 | 27.00 | 16.27 | 20.02 | 47.02 | 36.29 | 63.04 | 53.05 | -16.02 | -16.76 | Pass |
| 3 | 0.2460 | 26.97 | 22.77 | 20.03 | 47.00 | 42.80 | 61.89 | 51.89 | -14.89 | -9.09 | Pass |
| 4 | 0.3300 | 23.55 | 20.24 | 20.03 | 43.58 | 40.27 | 59.45 | 49.45 | -15.87 | -9.18 | Pass |
| 5 | 0.4100 | 7.80 | -3.17 | 20.04 | 27.84 | 16.87 | 57.65 | 47.65 | -29.81 | -30.78 | Pass |
| 6 | 0.4940 | 19.29 | 13.23 | 20.06 | 39.35 | 33.29 | 56.10 | 46.10 | -16.75 | -12.81 | Pass |

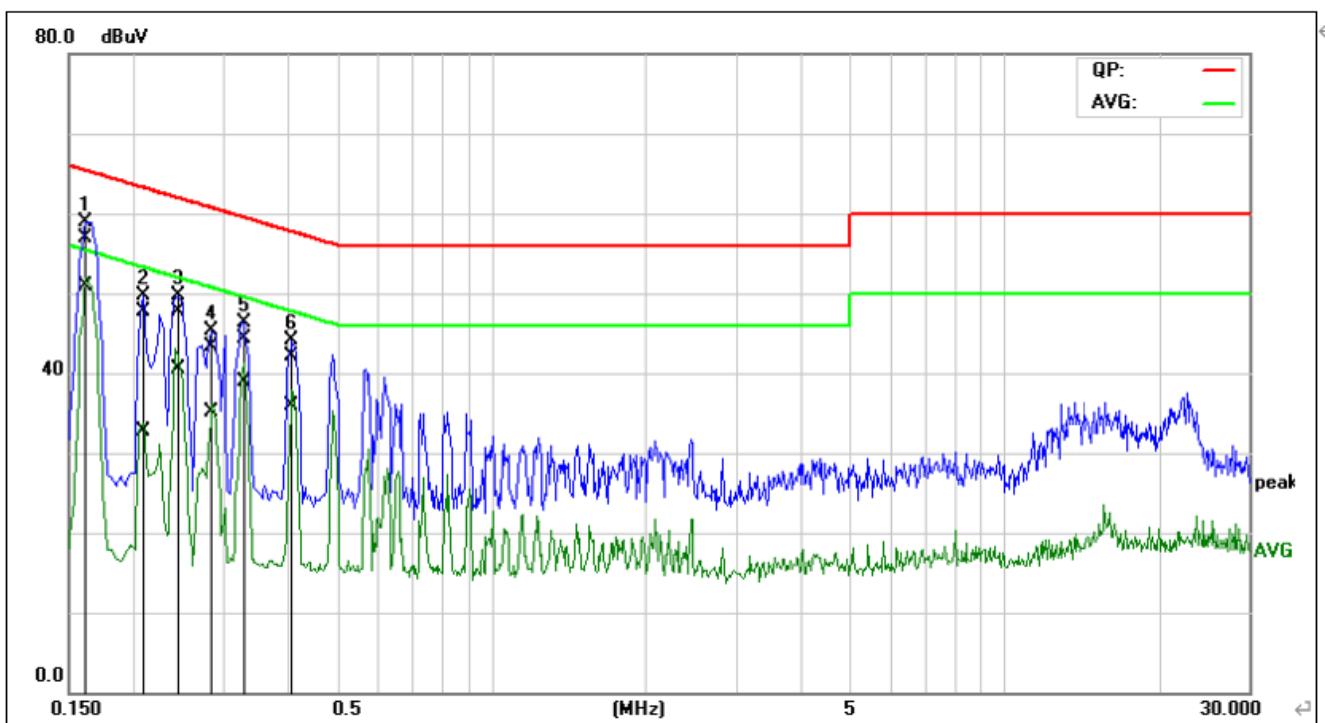
Compliance Certification Services (Kunshan) Inc.

CCSEM-TRF-001 Rev. 02 Sep 01, 2023

Report No.: KSCR230800151706

Page: 17 of 25

Test Mode: 08; Line: Neutral Line



| No. | Frequency | QuasiPeak reading | Average reading | Correction factor | QuasiPeak result | Average result | QuasiPeak limit | Average limit | QuasiPeak margin | Average margin | Remark |
|-----|-----------|-------------------|-----------------|-------------------|------------------|----------------|-----------------|---------------|------------------|----------------|--------|
| | (MHz) | (dBuV) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dBuV) | (dBuV) | (dB) | (dB) | |
| 1 | 0.1620 | 36.75 | 30.74 | 20.23 | 56.98 | 50.97 | 65.36 | 55.36 | -8.38 | -4.39 | Pass |
| 2 | 0.2100 | 27.65 | 12.64 | 20.14 | 47.79 | 32.78 | 63.20 | 53.21 | -15.41 | -20.43 | Pass |
| 3 | 0.2460 | 27.49 | 20.38 | 20.15 | 47.64 | 40.53 | 61.89 | 51.89 | -14.25 | -11.36 | Pass |
| 4 | 0.2860 | 23.17 | 15.02 | 20.15 | 43.32 | 35.17 | 60.64 | 50.64 | -17.32 | -15.47 | Pass |
| 5 | 0.3260 | 24.09 | 18.73 | 20.14 | 44.23 | 38.87 | 59.55 | 49.55 | -15.32 | -10.68 | Pass |
| 6 | 0.4100 | 22.03 | 15.78 | 20.10 | 42.13 | 35.88 | 57.65 | 47.65 | -15.52 | -11.77 | Pass |

7.5 99% Bandwidth

Test Requirement RSS-Gen Issue 5 Section 6.7

Test Method: RSS-Gen Issue 5 Section 6.7

Measurement Distance: 3m

7.5.1 E.U.T. Operation

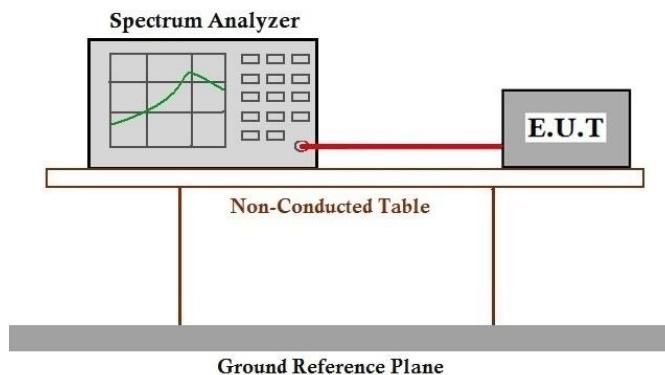
Operating Environment:

Temperature: 24 °C Humidity: 48 % RH Atmospheric Pressure: 1010 mbar

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|-----------------------|-----------|-------------------------|
| Final test | 08 | TX mode with modulation |

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for KSCR2308001517AT

9 EUT Constructional Details (EUT Photos)

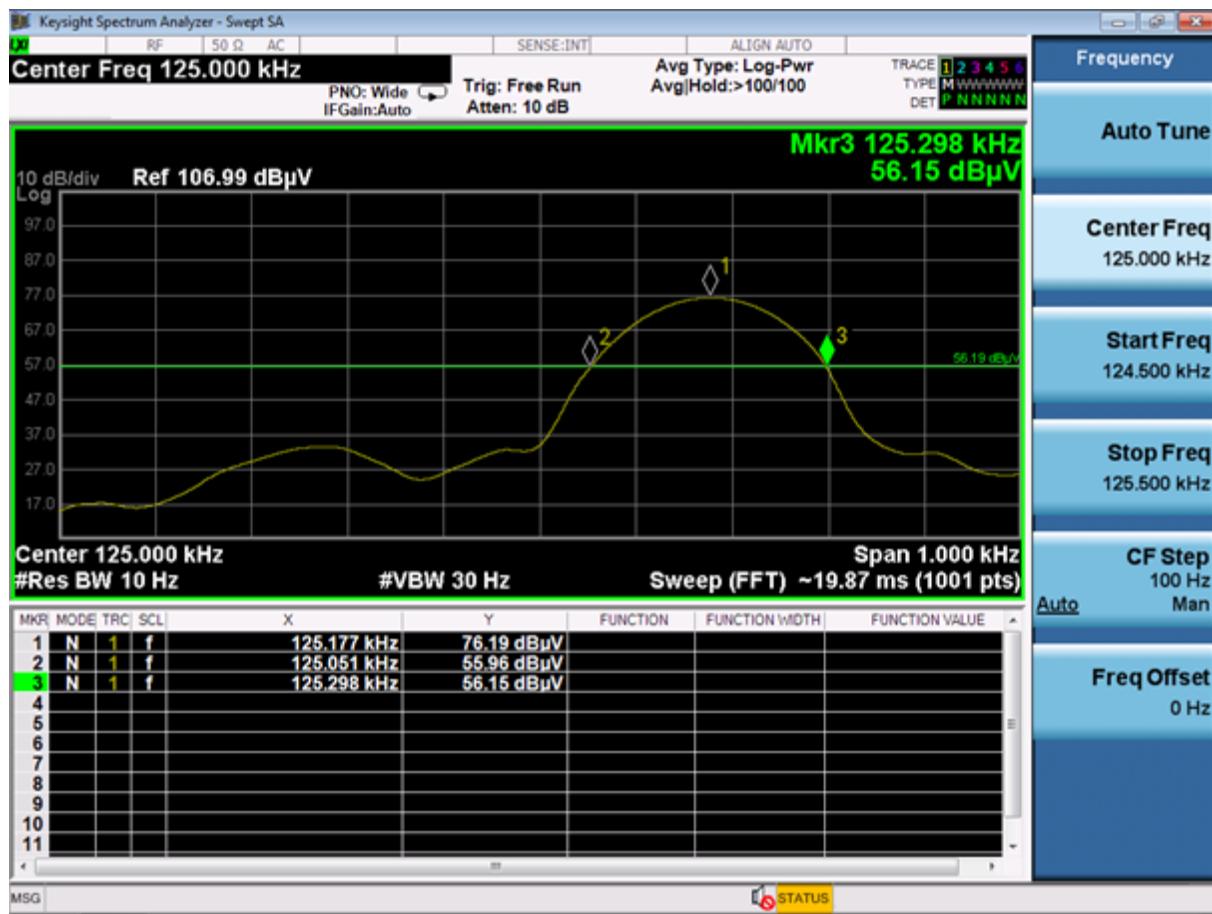
Refer to Appendix - Photographs of EUT Constructional Details for KSCR2308001517AT

10 Appendix

10.1 20dB Bandwidth

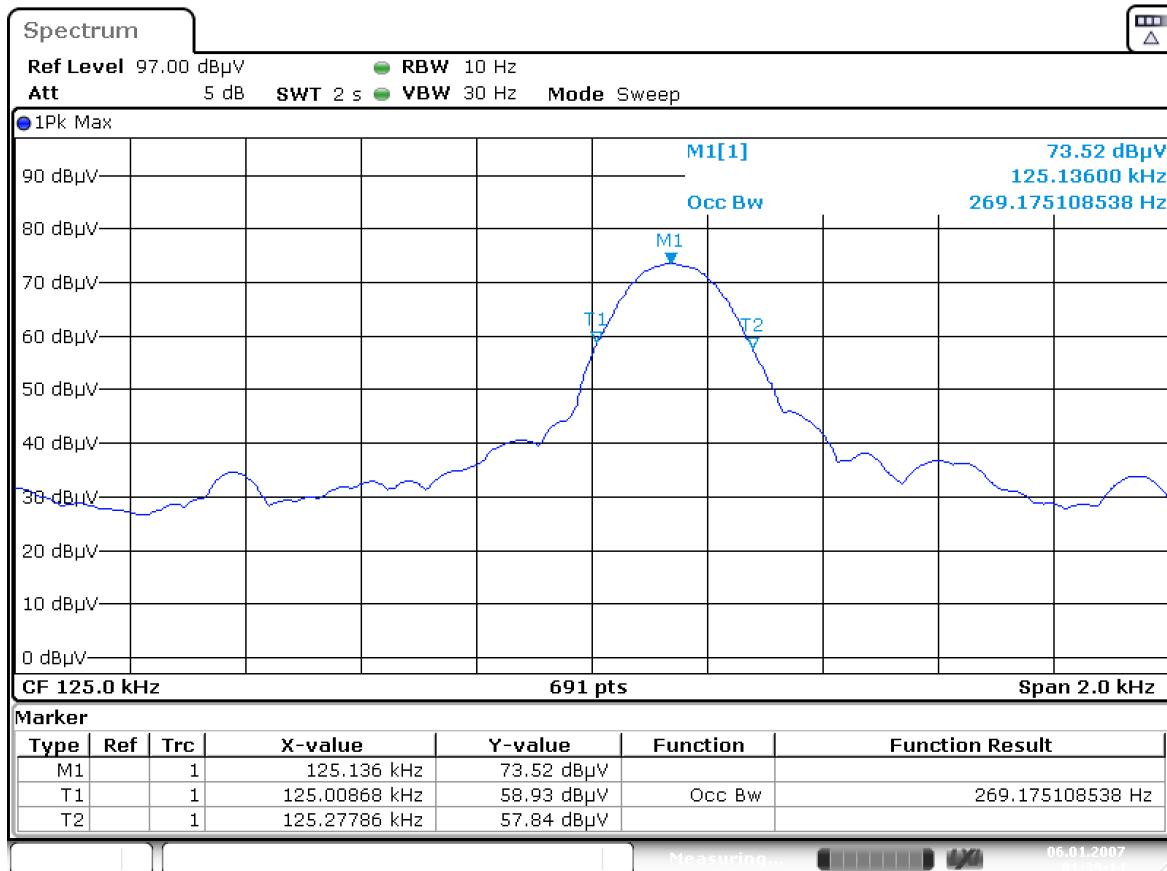
| 20dB bandwidth (Hz) | Result |
|---------------------|--------|
| 247.0 | Pass |

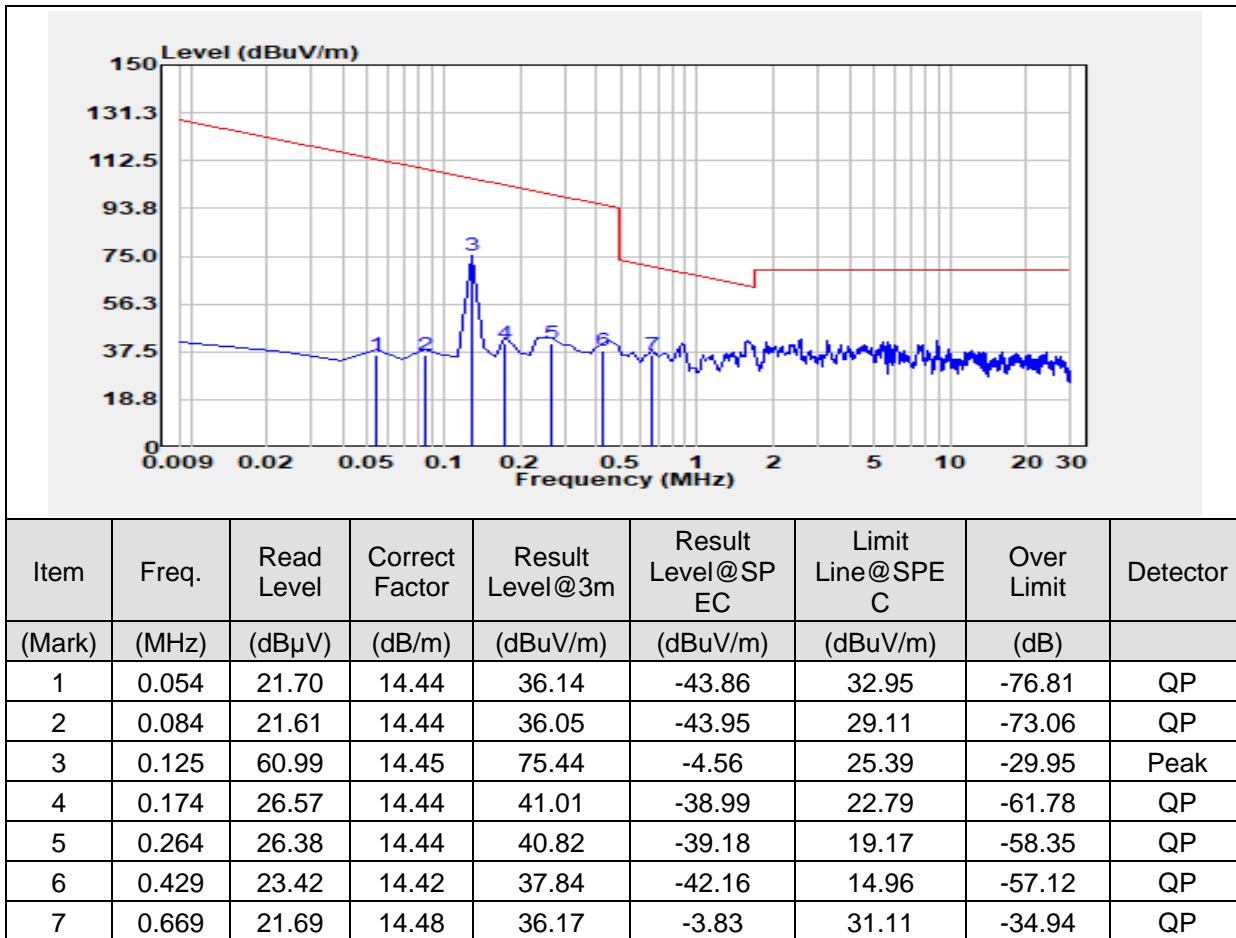
Test plot as follows:

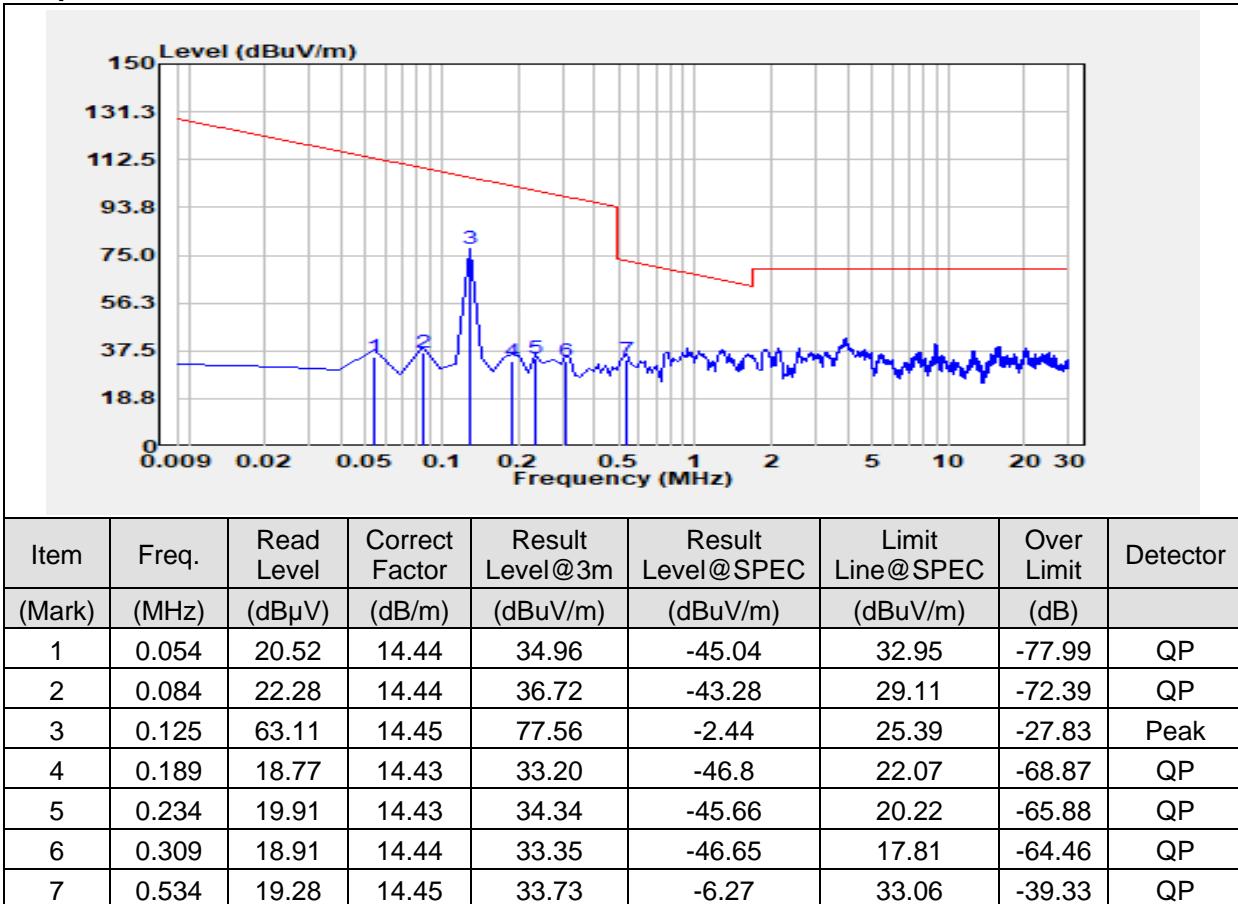


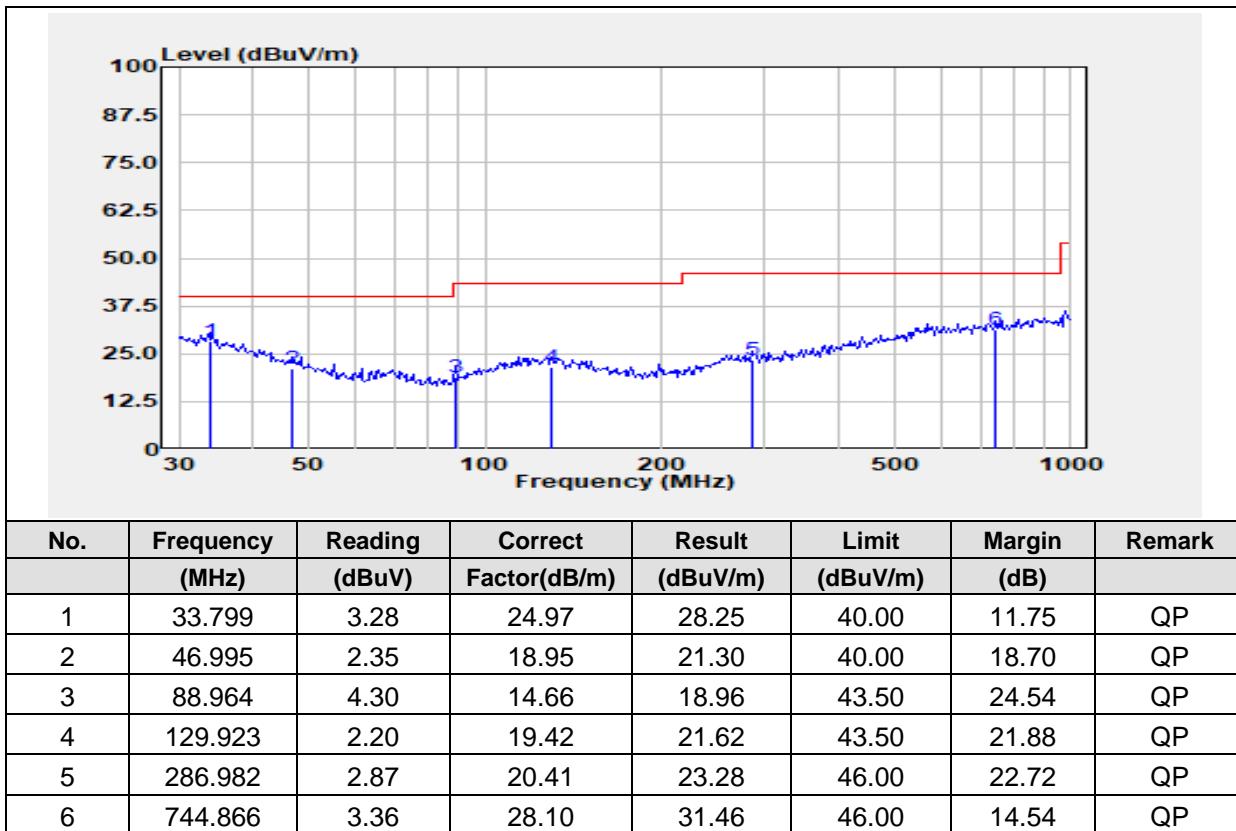
10.2 99% Bandwidth

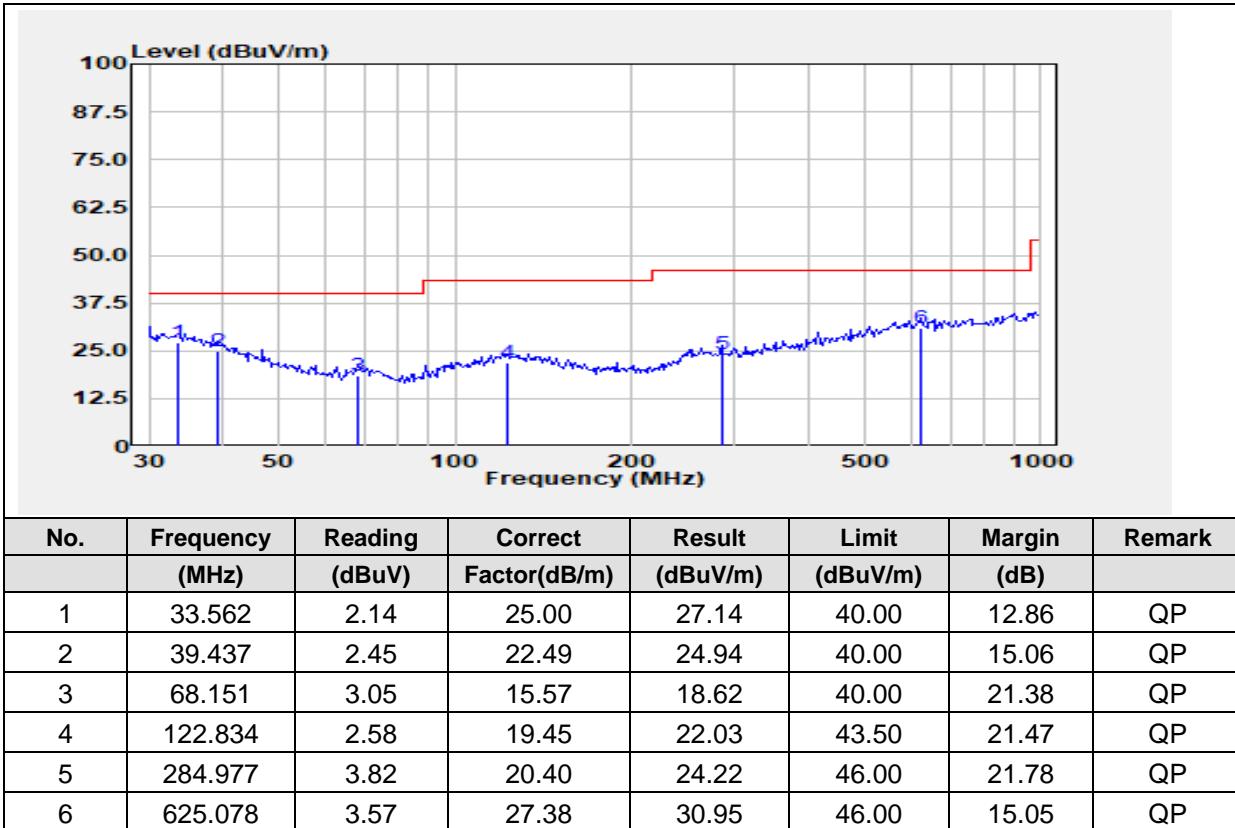
| Frequency (kHz) | 99% bandwidth (kHz) |
|-----------------|---------------------|
| 125.0 | 0.2692 |

Test plot as follows:

10.3 Radiated Emissions(9kHz-30MHz)**Coaxial**

Coplanar

10.4 Below 1GHz**Horizontal**

Vertical

- End of the Report -