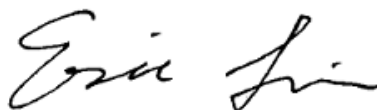


TEST REPORT

Application No.: KSCR2109000083AT
FCC ID: 2A2VW-V8S
Applicant: Shenzhen Zhiling Technology Co., Ltd
Address of Applicant: Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Manufacturer: Shenzhen Zhiling Technology Co., Ltd
Address of Manufacturer: Room 201, Building A, No.1 Qianwan Road, Qianhai Shenzhen-Hong Kong Cooperation Zone, Shenzhen, Guangdong, China
Equipment Under Test (EUT):
EUT Name: Video Doorbell
Model No.: V8S1AX11, V8S1AX12, V8S1AX13, V8S1AX14, V8S1AX15, V8S1AX16, V8S1AX17, V8S1AX18, V8S1AX19, V8S1AX20, V8S1AX21, V8S1AX22, V8S2AX11, V8S2AX12, V8S2AX13, V8S2AX14, V8S2AX15, V8S2AX16, V8S2AX17, V8S2AX18, V8S2AX19, V8S2AX20, V8S2AX21, V8S2AX22, V8S3AX11, V8S3AX12, V8S3AX13, V8S3AX14, V8S3AX15, V8S3AX16, V8S3AX17, V8S3AX18, V8S3AX19, V8S3AX20, V8S3AX21, V8S3AX22
 Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.
Standard(s) : 47 CFR Part 15, Subpart C 15.249
Date of Receipt: 2021-09-18
Date of Test: 2021-09-18 to 2021-10-09
Date of Issue: 2021-10-10

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

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



Eric Lin

Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.



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| Revision Record | | | |
|-----------------|-------------|------------|--------|
| Version | Description | Date | Remark |
| 00 | Original | 2021-10-10 | / |
| | | | |
| | | | |

| | | | |
|--------------------------|--|-------------------------------|--|
| Authorized for issue by: | | | |
| | | Damon Zhou | |
| | | Damon Zhou / Project Engineer | |
| | | Eric Lin | |
| | | Eric Lin / Reviewer | |



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2 Test Summary

| Radio Spectrum Technical Requirement | | | | |
|--------------------------------------|----------------------------------|--------|----------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Antenna Requirement | 47 CFR Part 15, Subpart C 15.249 | N/A | 47 CFR Part 15, Subpart C 15.203 | Pass |

N/A: Not applicable

| Radio Spectrum Matter Part | | | | |
|-----------------------------------------------------|----------------------------------|--------------------------------|-------------------------------------|--------|
| Item | Standard | Method | Requirement | Result |
| Conducted Emissions at AC Power Line (150kHz-30MHz) | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| 20dB Emission bandwidth and 99% Bandwidth | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.9 | 47 CFR Part 15, Subpart C 15.215 | Pass |
| Filed strength of fundamental | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.249(a) | Pass |
| Radiation Spurious Emission | 47 CFR Part 15, Subpart C 15.249 | ANSI C63.10 (2013) Section 6.6 | 47 CFR Part 15, Subpart C 15.249(a) | Pass |

Note: There are series models mentioned in this report, and they are the similar in electrical and electronic characters. Only V8S1AX11 was selected to test and their differences were the model number and appearance.



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4 General Information

4.1 Details of E.U.T.

Power supply: DC 3.7V by Rechargeable Lithium ion Battery Pack charged by DC 5V Adapter
Battery Model: DLJN 1865a 2P
Nominal Voltage: 3.7V
Rated Capacity: 5200mAh/19.24Wh

Test voltage: AC 120V/60Hz
Frequency Range: 24000-24250MHz
Modulation Technique: FMCW
Antenna Type: Integrated Patch Antenna
24182MHz

Output Power: Peak: 96.48dBuV/m @1m
AV: 94.75dBuV/m @1m

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|-------------|--------------|--------------------------|------------|
| Adapter | HONOTO | ADS-12CG-06 05010EPCN | / |



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4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|---------------------------------|-------------------------|
| 1 | Radio Frequency | 8.4×10^{-8} |
| 2 | Timeout | 2s |
| 4 | Occupied Bandwidth | 3% |
| 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.



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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.

4.5 Test Facility

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

- **CNAS (No. CNAS L4354)**

CNAS has accredited Compliance Certification Services (Kunshan) Inc. to ISO/IEC 17025:2017 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

- **A2LA (Certificate No. 2541.01)**

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

- **FCC (Designation Number: CN1172)**

Compliance Certification Services Inc. has been recognized as an accredited testing laboratory.

Designation Number: CN1172.

- **ISED (CAB Identifier: CN0072)**

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

CAB Identifier: CN0072.

- **VCCI (Member No.: 1938)**

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



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5 Equipment List

| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
|-------------------------------------------------------------|-------------------------------------------|--------------|-------------------|-----------------|------------|---------------|
| Conducted Emission at Mains Terminals (150kHz-30MHz) | | | | | | |
| 1 | EMI Test Receive | R&S | ESCI | 100781 | 02/01/2021 | 01/31/2022 |
| 2 | LISN | R&S | ENV216 | 101604 | 10/19/2020 | 10/18/2021 |
| 3 | LISN | Schwarzbeck | NNLK 8129 | 8129-143 | 10/19/2020 | 10/18/2021 |
| 4 | Pulse Limiter | R&S | ESH3-Z2 | 100609 | 02/01/2021 | 01/31/2022 |
| 5 | CE test Cable | Thermax | / | 14 | 10/17/2020 | 10/16/2021 |
| 6 | Test Software | Farad | EZ-EMC | CCS-03A1 | N.C.R | N.C.R |
| RF Radiated Test | | | | | | |
| Item | Equipment | Manufacturer | Model | Serial Number | Cal Date | Cal. Due Date |
| 1 | Spectrum Analyzer | R&S | FSV40 | 101493 | 10/19/2020 | 10/18/2021 |
| 2 | Signal Generator | Agilent | E8257C | MY43321570 | 10/10/2020 | 10/18/2021 |
| 3 | Loop Antenna | COM-POWER | AL-130R | 10160008 | 04/29/2019 | 04/28/2021 |
| 4 | Bilog Antenna | TESEQ | CBL 6112D | 35403 | 06/22/2021 | 06/21/2023 |
| 5 | Bilog Antenna | SCHWARZBECK | VULB9160 | 9160-3342 | 04/29/2021 | 04/28/2023 |
| 6 | Horn-antenna(1-18GHz) | Schwarzbeck | BBHA9120D | 267 | 10/26/2020 | 10/25/2022 |
| 7 | Horn-antenna(1-18GHz) | ETS-LINDGREN | 3117 | 00143290 | 02/22/2021 | 02/21/2023 |
| 8 | Horn Antenna(18-40GHz) | Schwarzbeck | BBHA9170 | BBHA9170171 | 02/22/2021 | 02/21/2024 |
| 9 | Horn-antenna(40-60GHz) | REBES | SAZ-2410-19-S1 | 06299-01 | N/A | N/A |
| 10 | Horn-antenna(50-75GHz) | REBES | SAZ-2410-15-S1 | 01731-01 | N/A | N/A |
| 11 | Horn-antenna(75-110GHz) | REBES | SAZ-2410-10-S1 | 01773-09 | N/A | N/A |
| 12 | Horn-antenna(110-170GHz) | REBES | SAZ-2410-06-S1 | 01776-05 | N/A | N/A |
| 13 | Horn-antenna(140-220GHz) | REBES | SAZ-2410-05-S1 | 01759-04 | N/A | N/A |
| 14 | Horn-antenna(220-325GHz) | REBES | SAR-2309-03-S2 | 06300-01 | N/A | N/A |
| 15 | Extended waveguide(40-60GHz) | REBES | SWG-19025-FB | 06303-01 | N/A | N/A |
| 16 | Extended waveguide(50-75GHz) | REBES | SWG-15025-FB | 01525-09 | N/A | N/A |
| 17 | Extended waveguide(75-110GHz) | REBES | SWG-10025-FB | 01509-01 | N/A | N/A |
| 18 | Extended waveguide(110-170GHz) | REBES | SWG-06025-FB | 06302-01 | N/A | N/A |
| 19 | Extended waveguide(140-220GHz) | REBES | SWG-05025-FB | 06304-01 | N/A | N/A |
| 20 | Extended waveguide(220-325GHz) | REBES | SWG-03025-FB | 06301-01 | N/A | N/A |
| 21 | Harmonic mixer(110-170GHz) | REBES | STH-06SF-S1 | 06110-01 | N/A | N/A |
| 22 | Harmonic mixer(40-60GHz) | REBES | STH-19SF-S1 | 06937-01 | N/A | N/A |
| 23 | Waveguide Harmonic Mixer(50-75GHz) | KEYSIGHT | M1970V | MY51390966 | N/A | N/A |
| 24 | Waveguide Harmonic Mixer(50-75GHz) cable | Silverline | SLU18-SMSM-01.00M | 99612 | N/A | N/A |
| 25 | Waveguide Harmonic Mixer(75-110GHz) | KEYSIGHT | M1970W | MY51430883 | N/A | N/A |
| 26 | Waveguide Harmonic Mixer(75-110GHz) cable | Silverline | SLU18-SMSM-01.00M | 94202 | N/A | N/A |
| 27 | Waveguide Harmonic Mixer(140-220GHz) | REBES | HM 140-220 | 0220-210-002-3D | N/A | N/A |
| 28 | Waveguide Harmonic Mixer(220-325GHz) | REBES | HM 220-325 | 0325-210-002-2F | N/A | N/A |



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| | | | | | | |
|----|----------------------------|---------------|--------------|-------------|------------|------------|
| 29 | Pre-Amplifier(30MHz~18GHz) | CCSRF | AMP1277 | 1 | 10/19/2020 | 10/18/2021 |
| 30 | Pre-Amplifier(0.1~26.5GHz) | EMCI | EMC012645 | 980060 | 04/21/2021 | 04/20/2022 |
| 31 | Low Pass Filter | MICRO-TRONICS | VLFX-950 | RV142900829 | N.C.R | N.C.R |
| 32 | High Pass Filter | Mini-Circuits | VHF-1200 | 15542 | N.C.R | N.C.R |
| 33 | RE test cable | / | RE01-RE04 | / | 04/21/2021 | 04/22/2022 |
| 34 | Software | Faratronic | EZ_EMG-v 3A1 | N/A | N/A | N/A |

Note: N.C.R means Not Calibration Requirements.



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

FCC 47 CFR Part 15C Section 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 an 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 Patch Antenna and no consideration of replacement.

Antenna location: Refer to EUT Photos.



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7 Radio Spectrum Matter Test Results

7.1 Conducted Emissions at AC Power Line (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 (dBμV) | |
|-----------------------------|------------------------|-----------|
| | 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.

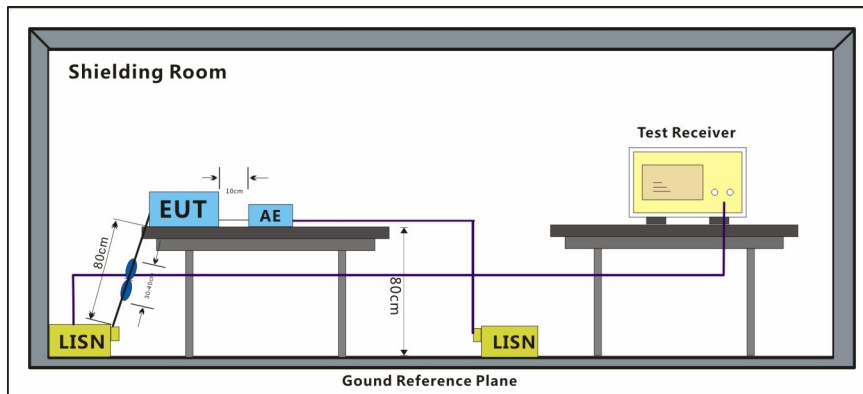
7.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test Mode: a: TX mode _ Keep the EUT in continuously transmitting mode.

7.1.2 Test Setup Diagram



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7.1.3 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/50μH + 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 the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark:

LISN = Read Level + Cable Loss + LISN Factor



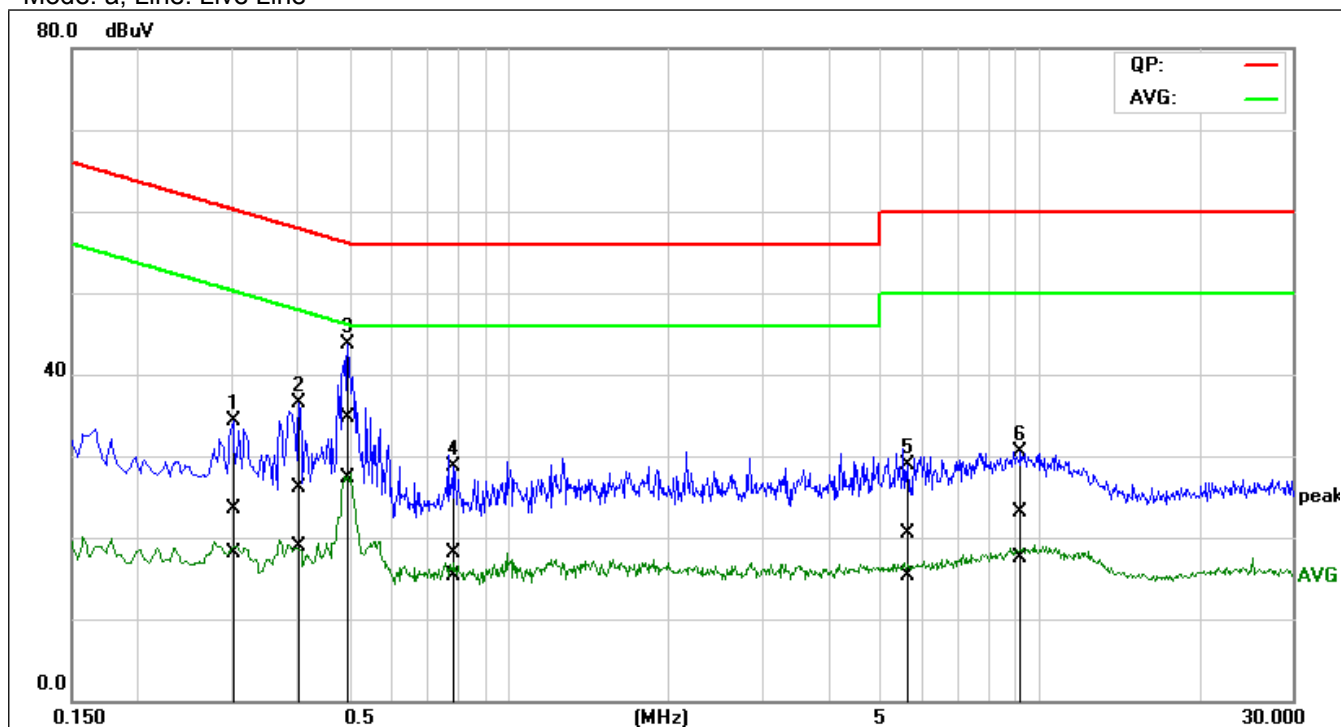
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Mode: a; Line: Live Line



| 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 | 0.3044 | 4.12 | -1.31 | 19.47 | 23.59 | 18.16 | 60.12 | 50.12 | -36.53 | -31.96 | Pass |
| 2 | 0.3991 | 6.55 | -0.50 | 19.50 | 26.05 | 19.00 | 57.87 | 47.87 | -31.82 | -28.87 | Pass |
| 3* | 0.4999 | 15.16 | 7.69 | 19.53 | 34.69 | 27.22 | 56.00 | 46.00 | -21.31 | -18.78 | Pass |
| 4 | 0.7857 | -1.42 | -4.16 | 19.54 | 18.12 | 15.38 | 56.00 | 46.00 | -37.88 | -30.62 | Pass |
| 5 | 5.6018 | 0.74 | -4.42 | 19.78 | 20.52 | 15.36 | 60.00 | 50.00 | -39.48 | -34.64 | Pass |
| 6 | 9.1643 | 3.25 | -2.54 | 19.95 | 23.20 | 17.41 | 60.00 | 50.00 | -36.80 | -32.59 | Pass |



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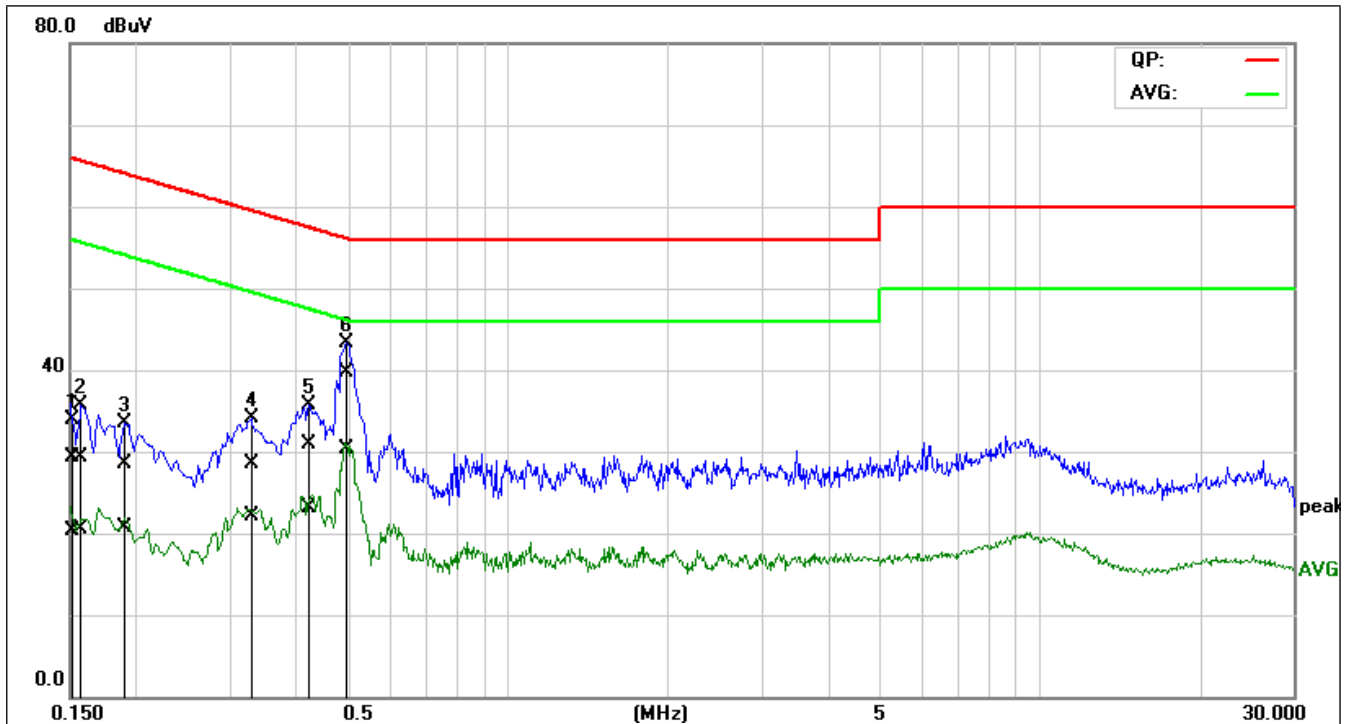
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Mode: a; Line: Neutral Line



| 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 | 0.1525 | 9.90 | 0.85 | 19.42 | 29.32 | 20.27 | 65.86 | 55.86 | -36.54 | -35.59 | Pass |
| 2 | 0.1587 | 9.79 | 1.09 | 19.42 | 29.21 | 20.51 | 65.53 | 55.53 | -36.32 | -35.02 | Pass |
| 3 | 0.1903 | 9.01 | 1.30 | 19.43 | 28.44 | 20.73 | 64.02 | 54.02 | -35.58 | -33.29 | Pass |
| 4 | 0.3308 | 8.98 | 2.60 | 19.46 | 28.44 | 22.06 | 59.43 | 49.43 | -30.99 | -27.37 | Pass |
| 5 | 0.4238 | 11.49 | 3.55 | 19.49 | 30.98 | 23.04 | 57.37 | 47.37 | -26.39 | -24.33 | Pass |
| 6* | 0.5015 | 20.16 | 10.79 | 19.51 | 39.67 | 30.30 | 56.00 | 46.00 | -16.33 | -15.70 | Pass |



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7.2 20dB Bandwidth and 99% Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.215

Test Method: ANSI C63.10 (2013) Section 6.9

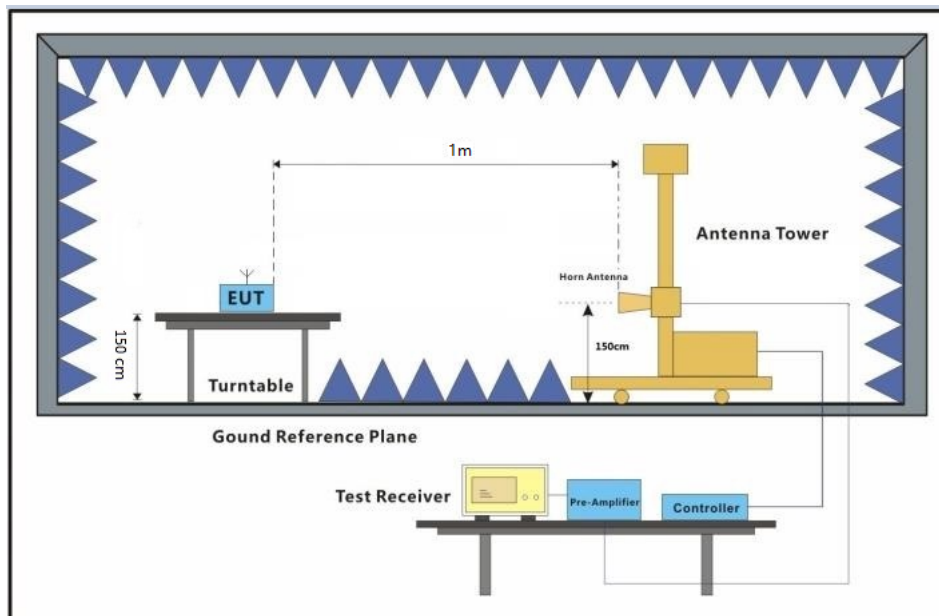
7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test Mode: a: TX mode _ Keep the EUT in continuously transmitting mode.

7.2.2 Test Setup Diagram



7.2.3 Measurement Procedure and Data



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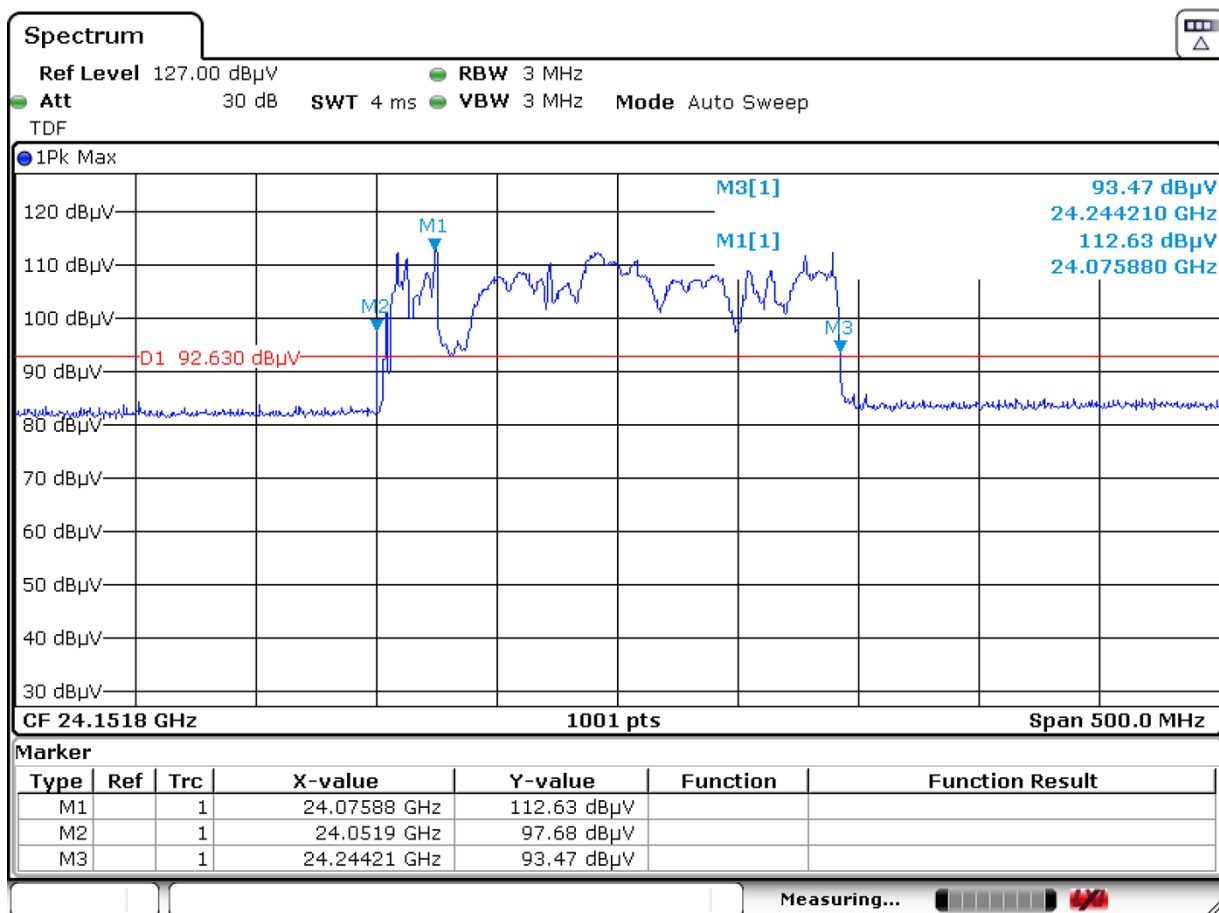
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| | | | | |
|---------------------|-------------|----------------------|-------------|--------|
| Low Frequency (GHz) | Limit (GHz) | High Frequency (GHz) | Limit (GHz) | Result |
| 24.05190 | 24.00 | 24.24421 | 24.25 | Pass |



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7.3 Filed Strength of Fundamental and Radiation Spurious Emission

Test Requirement 47 CFR Part 15, Subpart C 15.249(a)

Test Method: ANSI C63.10 (2013) Section 6.6

Limit:

FCC according to §15.249(a).

- (1) The field strength of emissions from intentional radiators operated within these frequency bands shall comply with the following:

| Fundamental frequency (MHz) | Field strength of fundamental (millivolts/meter) | Field strength of harmonics (microvolts/meter) |
|-----------------------------|--------------------------------------------------|------------------------------------------------|
| 2400-2483.5 | 50 | 500 |
| 5725-5875 | 50 | 500 |
| 24000-24250 | 250 | 2500 |

* Field strength limits are specified at a distance of 3 meters.

| Fundamental Limit Conversion | | | |
|------------------------------|------------------------|------------------------|---------------------|
| Average (mV/m) at 3M | Average (dBuV/m) at 3M | Average (dBuV/m) at 1M | Peak (dBuV/m) at 1M |
| 250 | 107.9588 | 117.50 | 137.50 |

*(Limit = 107.9588 + 20LOG(3/1) = 117.50 dBuV/m)

| Harmonic Limit Conversion | | | | | |
|---------------------------|------------------------|------------------------|---------------------|---------------------------|------------------------|
| Average (uV/m) at 3M | Average (dBuV/m) at 3M | Average (dBuV/m) at 1M | Peak (dBuV/m) at 1M | Average (dBuV/m) at 0.15M | Peak (dBuV/m) at 0.15M |
| 2500 | 67.9588 | 77.50 | 97.50 | 113.98 | 93.98 |

*(Limit=67.9588+20LOG(3/1)=77.50 dBuV/m)

(Limit=67.9588+20LOG(3/0.15)=93.98 dBuV/m)

- (2) Emissions radiated outside of the specified frequency bands, except for harmonics, shall be attenuated by at least 50 dB below the level of the fundamental or to the general radiated emission limits in §15.209(follow the table), whichever is the lesser attenuation.

Below 30MHz

| Frequency | Field Strength (μA/m) | Magnetic field strength (H-Field) (μA/m) | Measurement Distance (metres) |
|---------------|-----------------------|------------------------------------------|-------------------------------|
| 9-490 kHz | 2,400/F (F in kHz) | 2,400/F (F in kHz) | 300 |
| 490-1,705 kHz | 24,000/F (F in kHz) | 24,000/F (F in kHz) | 30 |
| 1.705-30 MHz | 30 | N/A | 30 |

Above 30MHz

| Frequency (MHz) | Field Strength microvolts/m at 3 metres (watts, e.i.r.p.) | |
|-----------------|-----------------------------------------------------------|--------------|
| | Transmitters | Receivers |
| 30-88 | 100 (3 nW) | 100 (3 nW) |
| 88-216 | 150 (6.8 nW) | 150 (6.8 nW) |
| 216-960 | 200 (12 nW) | 200 (12 nW) |
| Above 960 | 500 (75 nW) | 500 (75 nW) |



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For Emission Above 960MHz at 1m AV Limit = $20 \cdot \log(500\text{uV/m}) + 20 \cdot \log(3\text{m}/1\text{m}) = 63.52 \text{ dBuV/m}$

Peak Limit = $63.52 \text{ dBuV/m} + 20\text{dB} = 83.52\text{dBuV/m}$.

at 0.15m AV Limit = $20 \cdot \log(500\text{uV/m}) + 20 \cdot \log(3\text{m}/0.15\text{m}) = 80.0 \text{ dBuV/m}$

Peak Limit = $80.0 \text{ dBuV/m} + 20\text{dB} = 100.0\text{dBuV/m}$.

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 22 °C Humidity: 50 % RH Atmospheric Pressure: 1002 mbar

Test Mode: a: TX mode _ Keep the EUT in continuously transmitting mode.



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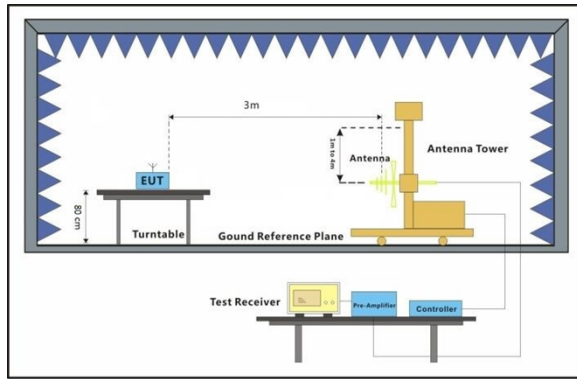
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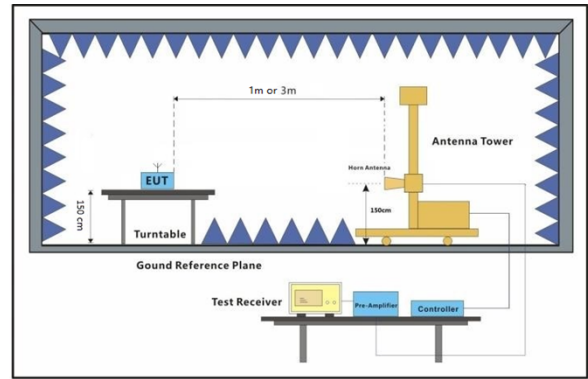
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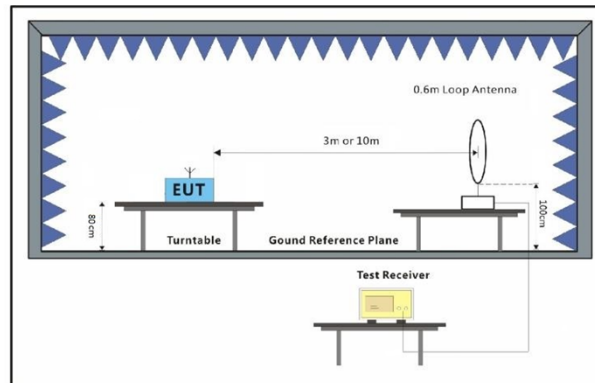
7.3.2 Test Setup Diagram



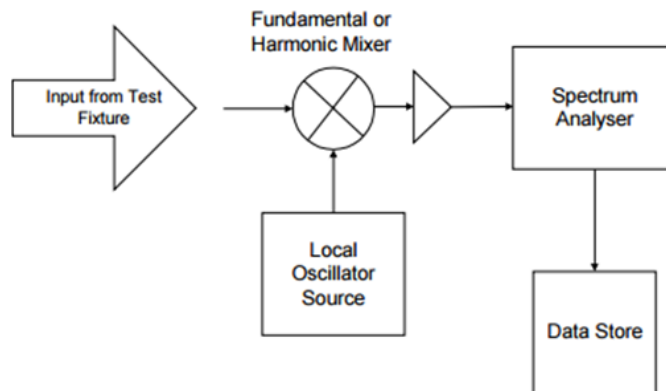
30-1000MHz



1-40GHz



Below 30MHz



Above 40GHz

7.3.3 Measurement Procedure and Data Filed Strength of Fundamental

| Frequency (GHz) | Distance(m) | Polarity | dBuV/m | Limit | Result | Remark |
|-----------------|-------------|------------|--------|--------|--------|--------|
| 24.160 | 1 | Horizontal | 95.89 | 137.50 | Pass | peak |
| 24.160 | 1 | Horizontal | 93.22 | 117.50 | Pass | AVG |
| 24.182 | 1 | Vertical | 96.48 | 137.50 | Pass | peak |
| 24.182 | 1 | Vertical | 94.75 | 117.50 | Pass | AVG |



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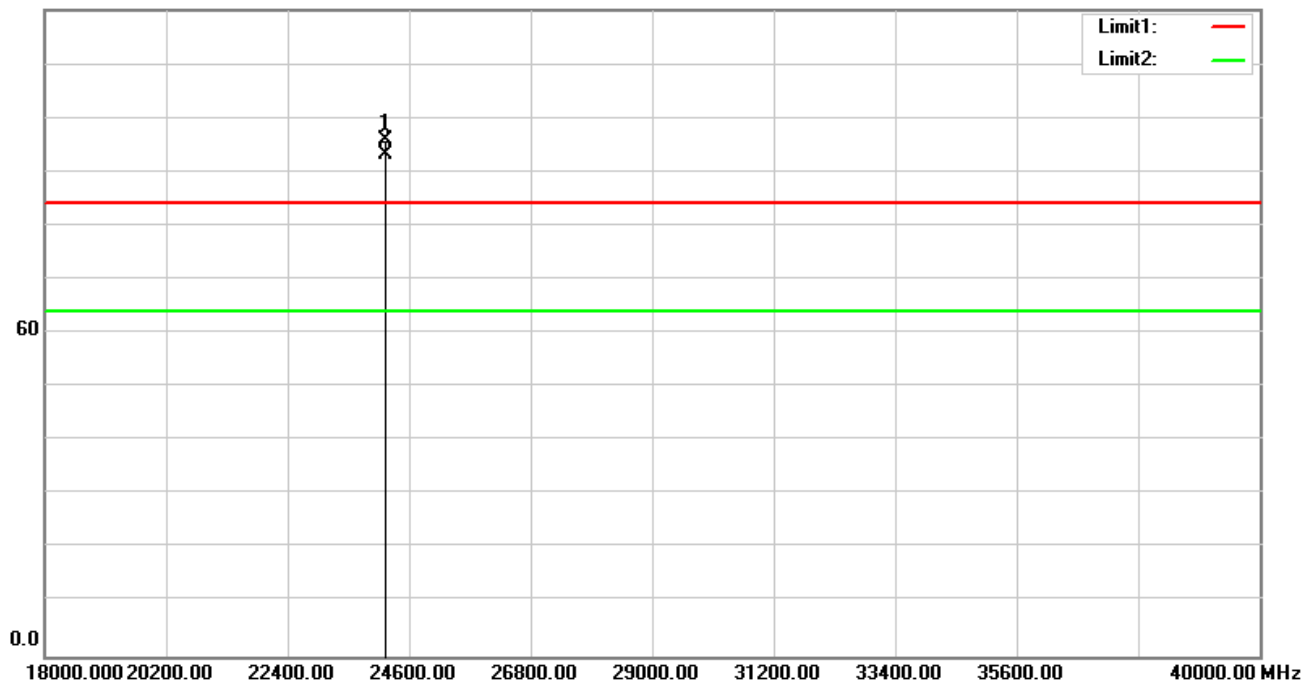
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Horizontal

120.0 dBuV



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 24160.000 | 84.31 | 11.58 | 95.89 | 137.50 | -41.61 | peak |
| 2 | 24160.000 | 81.64 | 11.58 | 93.22 | 117.50 | -24.28 | AVG |

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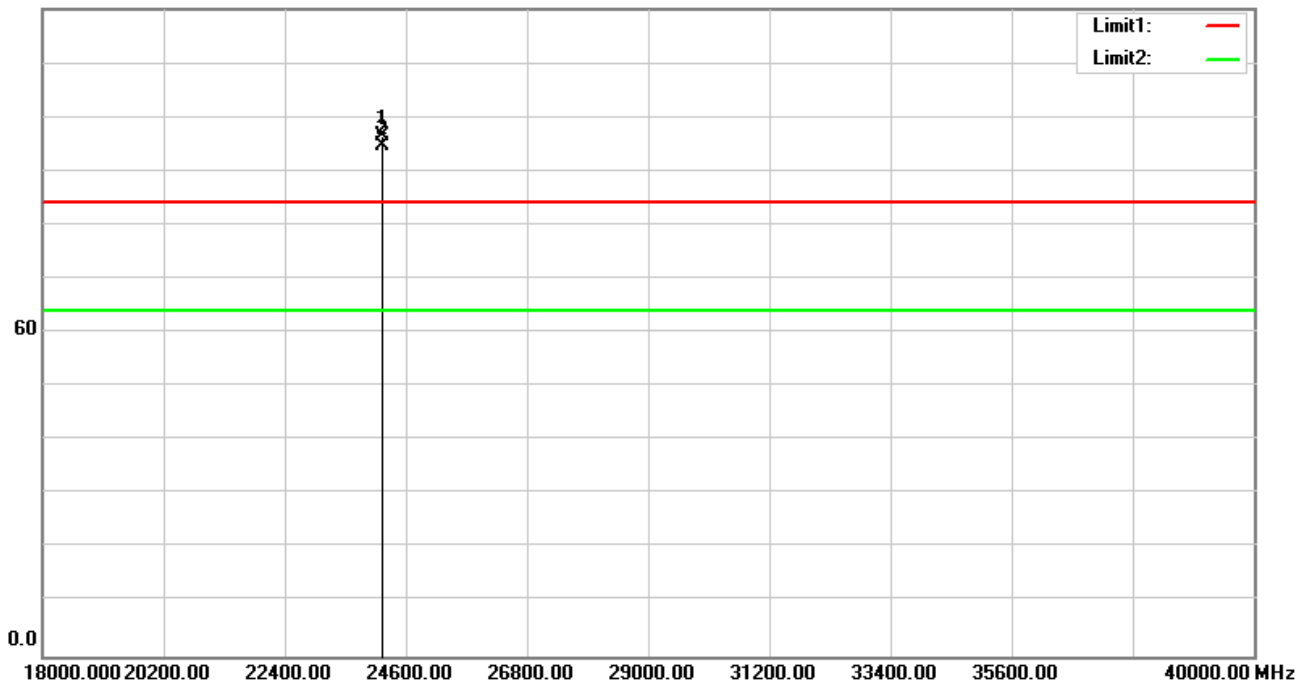
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Vertical

120.0 dBuV



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 24182.000 | 84.31 | 11.60 | 96.48 | 137.50 | -41.02 | peak |
| 2 | 24182.000 | 81.64 | 11.60 | 94.75 | 117.50 | -22.75 | AVG |



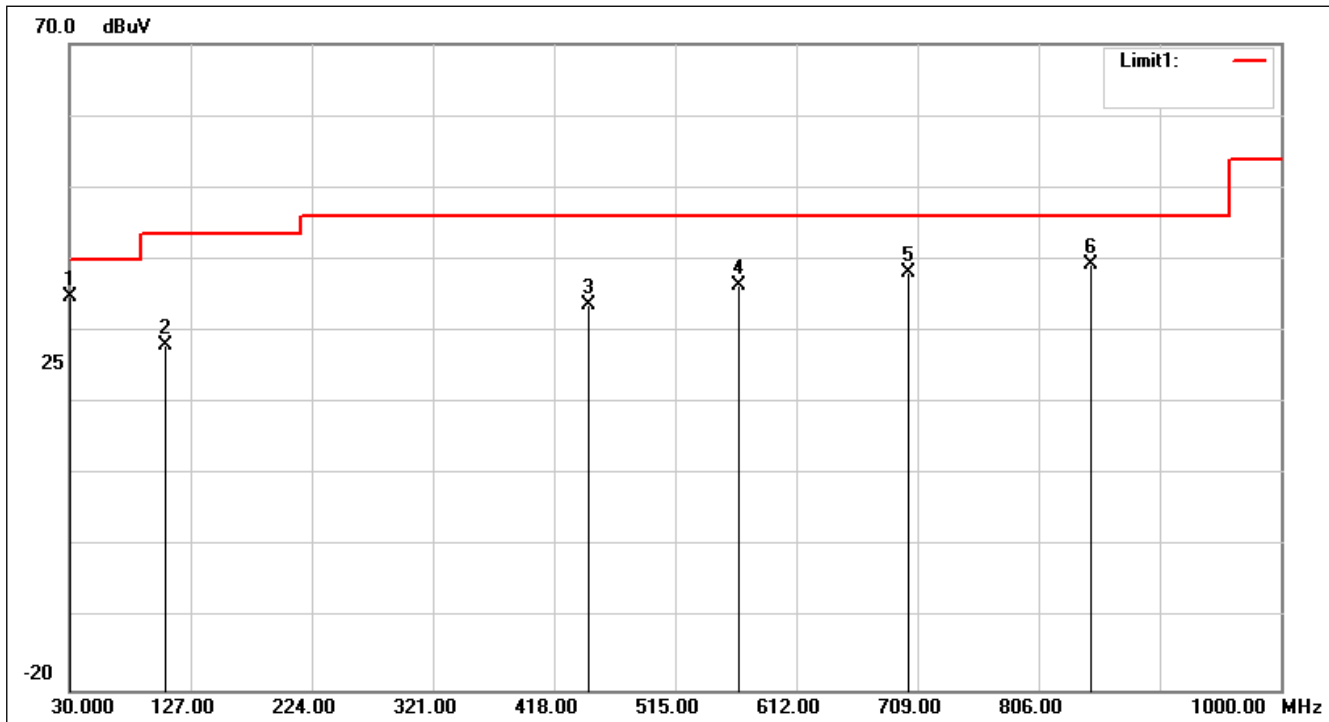
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Radiation Spurious Emission
30MHz-1GHz Horizontal

| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 30.0000 | 8.92 | 25.93 | 34.85 | 40.00 | -5.15 | QP |
| 2 | 106.6300 | 9.25 | 18.73 | 27.98 | 43.50 | -15.52 | QP |
| 3 | 445.1600 | 9.50 | 24.24 | 33.74 | 46.00 | -12.26 | QP |
| 4 | 565.4400 | 10.40 | 26.04 | 36.44 | 46.00 | -9.56 | QP |
| 5 | 701.2400 | 10.66 | 27.50 | 38.16 | 46.00 | -7.84 | QP |
| 6 | 847.7100 | 11.28 | 28.07 | 39.35 | 46.00 | -6.65 | QP |



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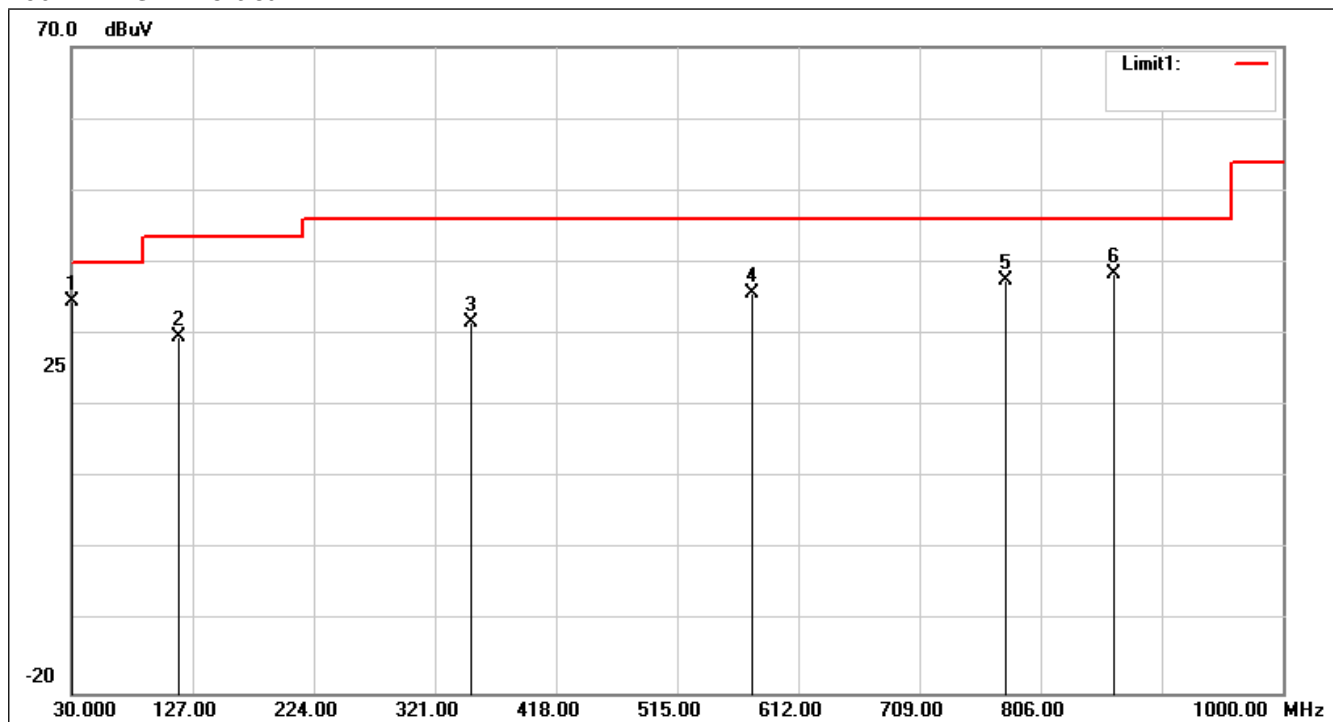
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30MHz-1GHz Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|--------|
| 1 | 30.9700 | 9.17 | 25.38 | 34.55 | 40.00 | -5.45 | QP |
| 2 | 115.3600 | 10.64 | 19.01 | 29.65 | 43.50 | -13.85 | QP |
| 3 | 350.1000 | 9.30 | 22.38 | 31.68 | 46.00 | -14.32 | QP |
| 4 | 575.1400 | 9.52 | 26.17 | 35.69 | 46.00 | -10.31 | QP |
| 5 | 777.8700 | 9.76 | 27.68 | 37.44 | 46.00 | -8.56 | QP |
| 6 | 864.2000 | 10.11 | 28.25 | 38.36 | 46.00 | -7.64 | QP |



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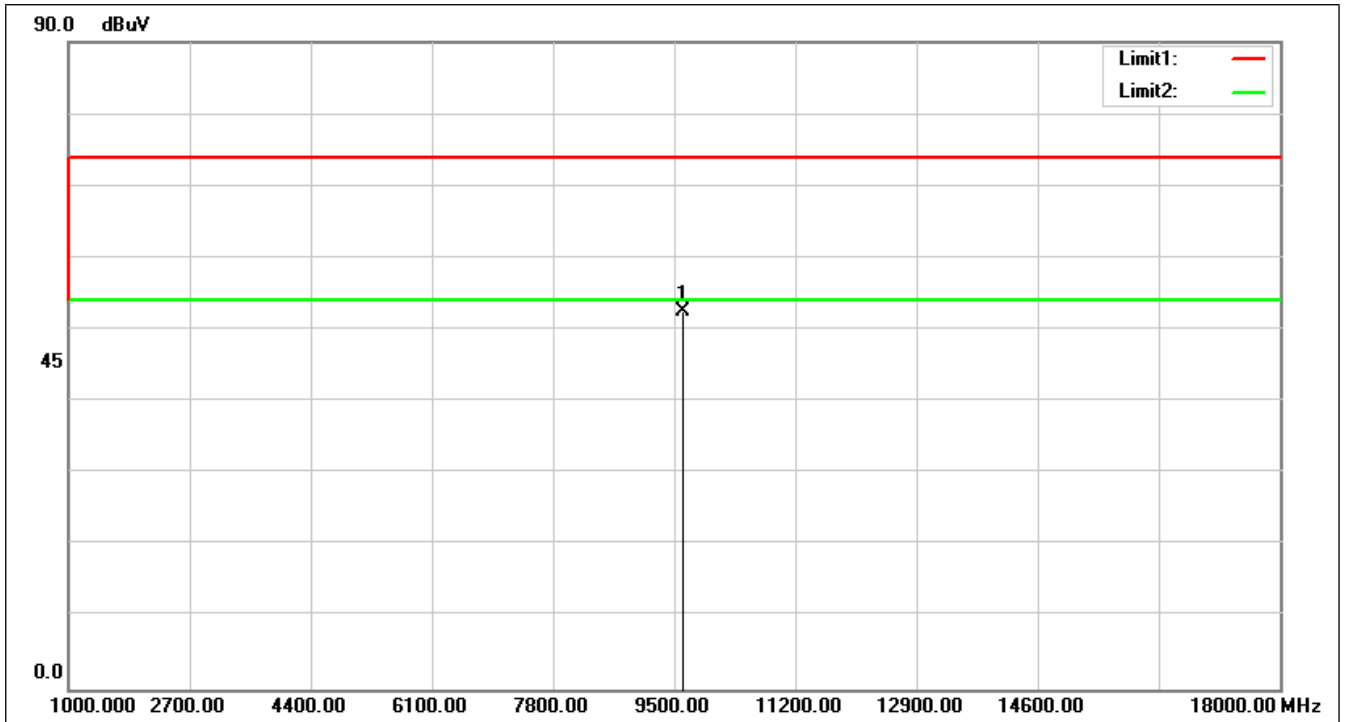
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1-18GHz Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|----------------|------------------|--------|
| 1 | 9619.000 | 46.22 | 6.35 | 52.57 | 74.00 | -21.43 | 150 | 0 | peak |



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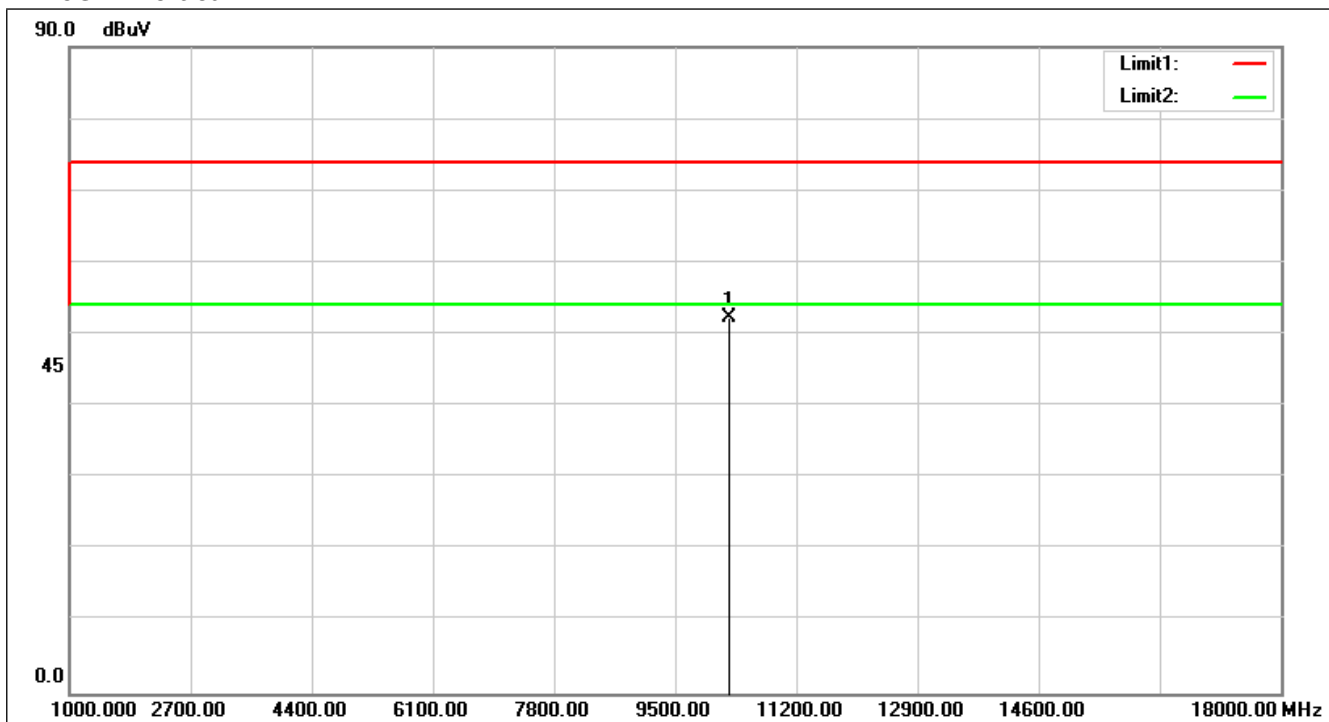
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1-18GHz Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|----------------|------------------|--------|
| 1 | 10265.000 | 44.55 | 7.86 | 52.41 | 74.00 | -21.59 | 150 | 0 | peak |



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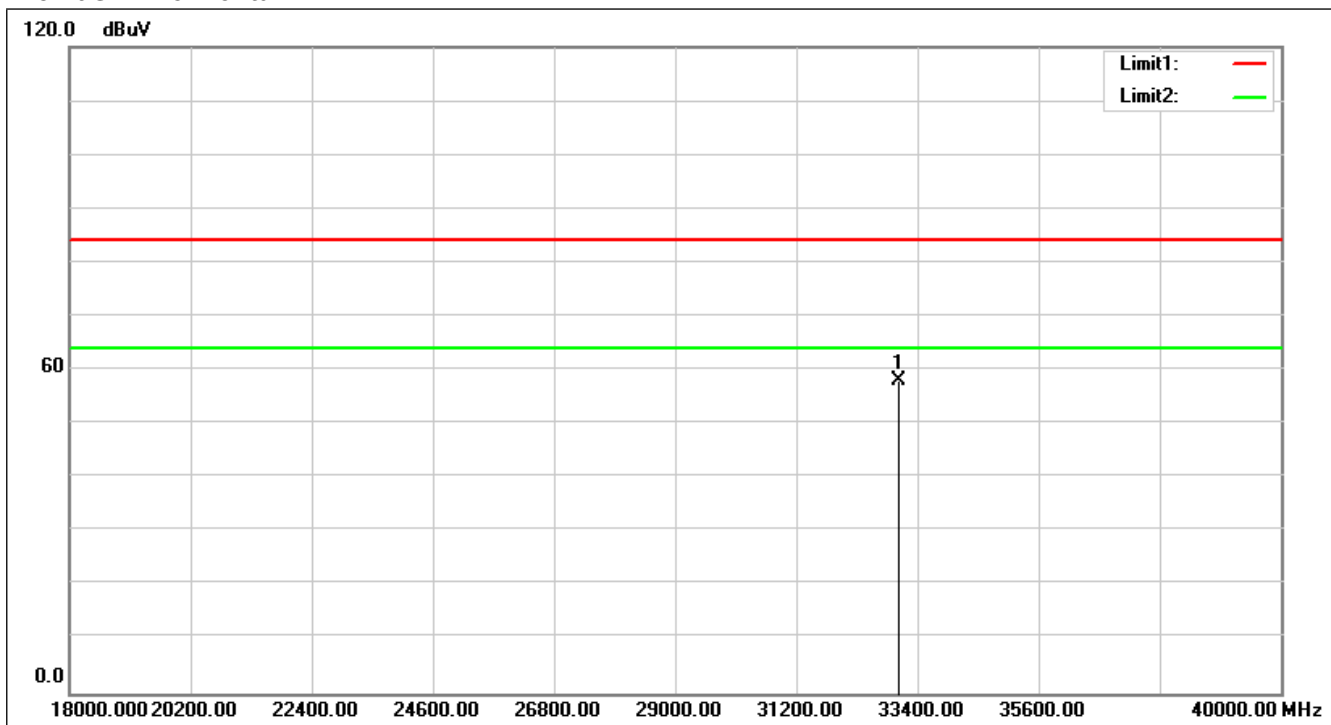
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18-40GHz Horizontal



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|----------------|------------------|--------|
| 1 | 33070.000 | 55.90 | 2.09 | 57.99 | 83.52 | -25.53 | 150 | 0 | peak |



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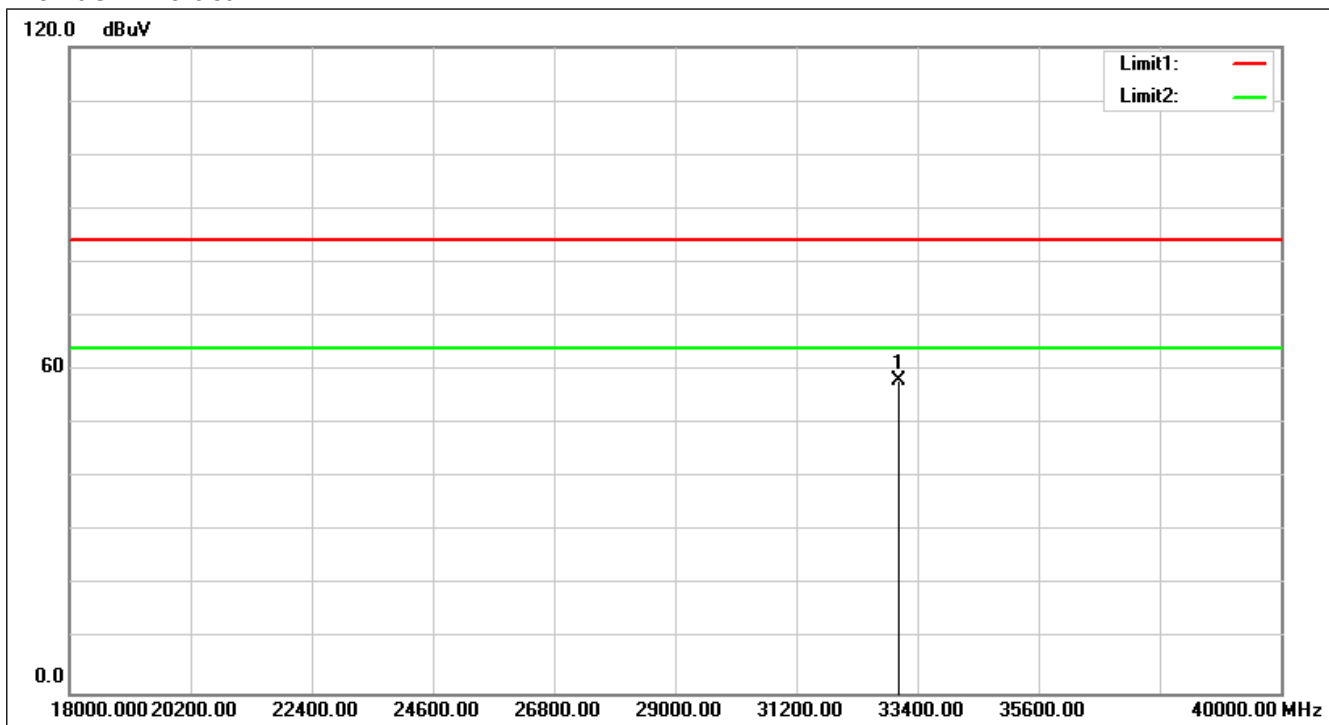
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18-40GHz Vertical



| No. | Frequency (MHz) | Reading (dBuV) | Correct Factor(dB) | Result (dBuV) | Limit (dBuV) | Margin (dB) | Height (cm) | Degree (deg.) | Remark |
|-----|--------------------|-------------------|-----------------------|------------------|-----------------|----------------|----------------|------------------|--------|
| 1 | 33070.000 | 56.11 | 2.09 | 58.19 | 83.52 | -25.33 | 150 | 0 | peak |



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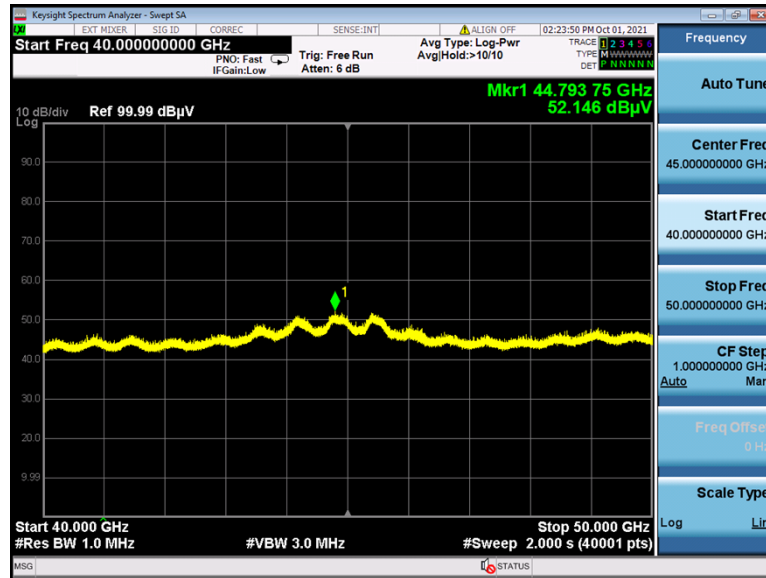
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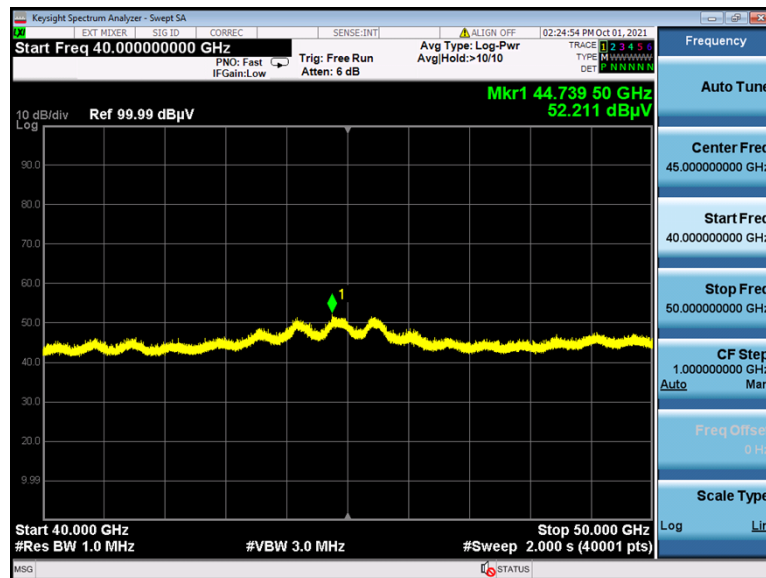
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40-50GHz Horizontal



40-50GHz Vertical



| Frequency (GHz) | Distance (M) | Peak Value (dBuv/m) | AV Limit (dBuv/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 44.793750 | 0.15 | 52.146 | 80.00 | H | PASS |
| 44.739500 | 0.15 | 52.211 | 80.00 | V | PASS |



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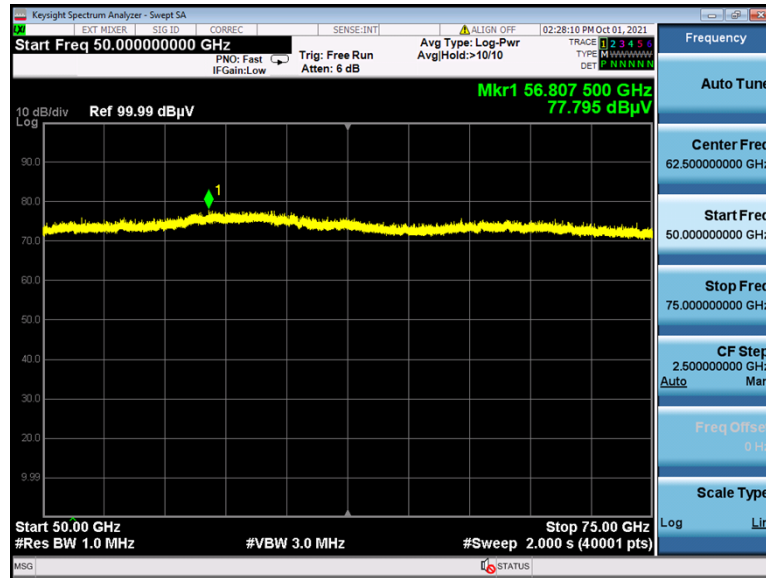
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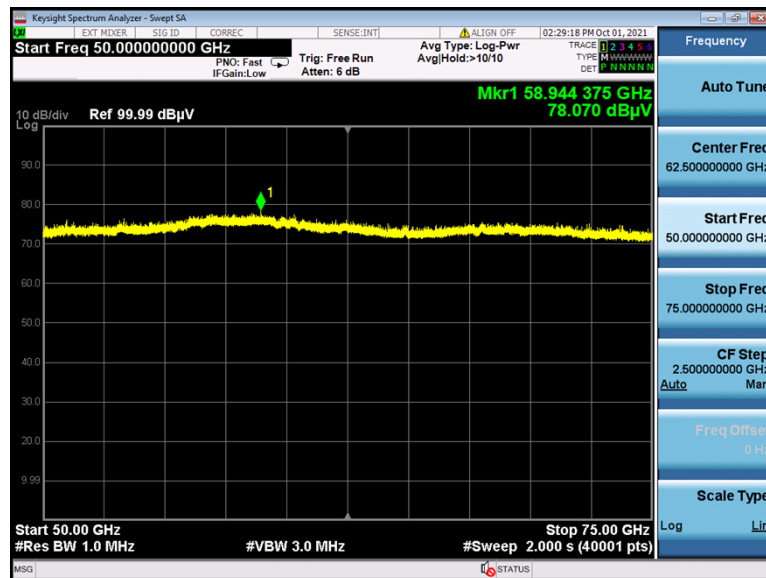
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50-75GHz Horizontal



50-75GHz Vertical



| Frequency (GHz) | Distance (M) | Peak Value (dBuv/m) | AV Limit (dBuv/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 56.807500 | 0.15 | 77.795 | 80.00 | H | PASS |
| 58.944375 | 0.15 | 78.070 | 80.00 | V | PASS |



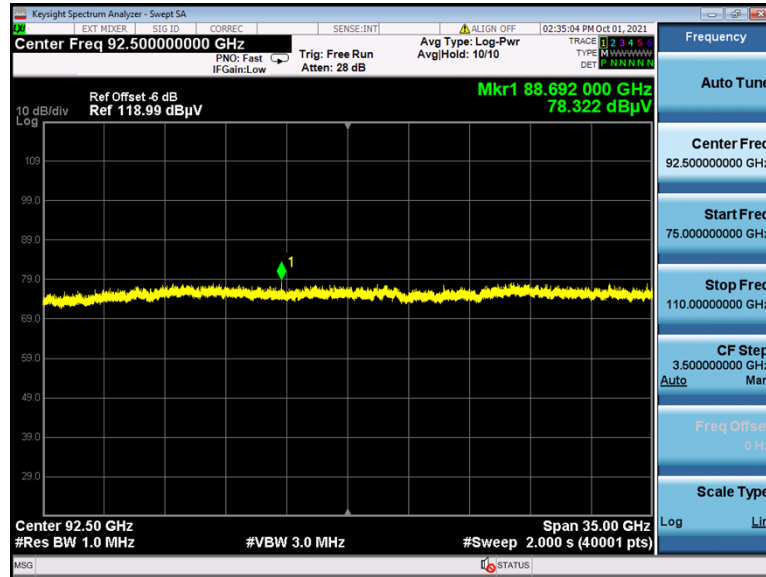
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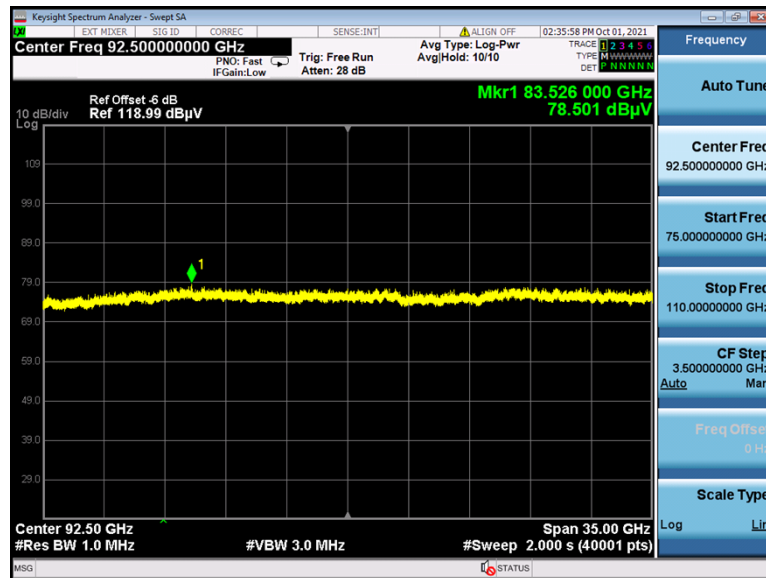
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75-110GHz Horizontal



75-110GHz Vertical



| Frequency (GHz) | Distance (M) | Peak Value (dBuv/m) | AV Limit (dBuv/m) | Polarization | Result |
|-----------------|--------------|---------------------|-------------------|--------------|--------|
| 88.692000 | 0.15 | 78.322 | 80.00 | H | PASS |
| 83.526000 | 0.15 | 78.501 | 80.00 | V | PASS |



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8 Test Setup Photographs

Refer to the < Test Setup photos >.

9 EUT Constructional Details

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

- End of the Report -



Compliance Certification Services (Kunshan) Inc.
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