



FCC SDoC Test Report

Issued date: Jun. 18, 2021

Project No.: 21Q052805

Product : Network Camera

Model : FE9192-H, FE912-H

Applicant : VIVOTEK INC.

Address : 6F, No.192, Lien-Cheng Rd., Chung-Ho , New Taipei City, 235,
Taiwan, R.O.C.


Report No: WD-EF-R-210167-A0

According to

47 CFR FCC Part 15, Subpart B, Class B

ANSI C63.4: 2014

ANSI C63.4a: 2017

Authorized Signatory :  / Ken Huang



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History of this test report

| Report No. | Issue date | Description |
|-------------------|---------------|---------------|
| WD-EF-R-210167-A0 | Jun. 18, 2021 | Initial Issue |

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



History of supplementary report

| Report No. | Issue date | Description |
|-------------------|---------------|-----------------|
| WD-EF-R-210167-A0 | Jun. 18, 2021 | Original report |

Declaration

This report is for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us.



1 Certification

Product: Network Camera

Brand Name: VIVOTEK

Model: FE9192-H, FE912-H

Applicant: VIVOTEK INC.

Tested: Jun. 07 ~ Jun. 08, 2021

Standard: 47 CFR FCC Part 15, Subpart B, Class B

ANSI C63.4: 2014

ANSI C63.4a: 2017

The above equipment (Model: FE9192-H) has been tested by **Wendell EMC & RF Laboratory**, and found compliance with the requirement of the above standards. The test record, data evaluation and Equipment Under Test (EUT) configurations represented herein are true and accurate accounts of the measurements of the sample's EMC characteristics under the conditions specified in this report.

Please note that the measurement uncertainty are provided for informational purpose only and are not used in determining the Pass/Fail results.



1.1 Summary of Test Result

The EUT has been tested according to the following specifications:

| Emission | | | | |
|-------------------------------|--|---------|--------|---------------------------------------|
| Standard | Test Item | Limit | Result | Remark |
| 47 CFR FCC Part 15, Subpart B | Conducted disturbance at mains terminals | - | N/A | Without AC main power port of the EUT |
| | Radiated disturbance | Class B | Pass | Meets the requirements |

Note: Test record contained in the referenced test report relate only to the EUT sample and test item.



2 Test Configuration of Equipment Under Test

2.1 Test Facility

Conducted disturbance at mains terminals Test

W01: 5F-1, No.188, Baoqiao Rd., Xindian Dist., New Taipei City 23145, Taiwan (R.O.C)

Conducted disturbance at mains terminals and Radiated emission (9*6*6 Chamber) Tests

W08: No.119, Wugong 3rd Rd., Wugu Dist., New Taipei City 248, Taiwan (R.O.C)

ACCREDITATIONS

The laboratories are accredited and approved by the TAF according to ISO/IEC 17025.

2.2 Measurement Uncertainty

The measurement instrumentation uncertainty is evaluated according to CISPR 16-4-2.

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=2$.

Wendell EMC & RF Laboratory U_{lab} is less than U_{cisp} , therefore compliance or non-compliance with a disturbance limit shall be determined in the following manner.

- 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.

Please note that the measurement uncertainty (U_{lab}) is provided for informational purpose only and is not used in determining the Pass/Fail results.

2.2.1 Conducted Emission test

| Test Site | Measurement Freq. Range | dB (U_{lab}) | Note |
|-----------|-------------------------|------------------|------|
| W01 | 150 kHz ~ 30 MHz | 2.72 | N/A |
| W08 | 150 kHz ~ 30 MHz | 2.70 | N/A |

2.2.2 Radiated Emission test

| Test Site | Measurement Freq. Range | Ant | dB (U_{lab}) | Note |
|-----------|-------------------------|-----|------------------|------|
| W08 | 30 MHz ~ 200 MHz | V | 3.68 | N/A |
| | 30 MHz ~ 200 MHz | H | 2.70 | N/A |
| | 200 MHz ~ 1000 MHz | V | 5.19 | N/A |
| | 200 MHz ~ 1000 MHz | H | 3.26 | N/A |
| | 1 GHz ~ 6 GHz | V | 4.98 | N/A |
| | 1 GHz ~ 6 GHz | H | 5.07 | N/A |
| | 6 GHz ~ 18 GHz | V | 5.09 | N/A |
| | 6 GHz ~ 18 GHz | H | 4.99 | N/A |
| | 18 GHz ~ 40 GHz | V | 4.72 | N/A |
| | 18 GHz ~ 40 GHz | H | 4.72 | N/A |



3 General Information

3.1 Description of EUT

| | |
|----------------------------|---|
| Product | Network Camera |
| Brand | VIVOTEK |
| Model | FE9192-H, FE912-H |
| Applicant | VIVOTEK INC. |
| Received Date | May 28, 2021 |
| EUT Power Rating | 55Vdc (from POE injector) |
| Model Differences | The models are electrically identical, different models no. are for marketing purpose. This series model information is provided by client. |
| Operating System | N/A |
| Data Cable Supplied | N/A |
| Accessory Device | N/A |
| I/O Port | Please refer to the User's Manual |

Note:

1. The EUT's highest operating frequency is 2133MHz. Therefore the radiated emission is tested up to 11GHz.

3.2 Description of Test Modes

Test results are presented in the report as below.

| Test Mode | Test Condition |
|--|----------------|
| Radiated emission 30MHz ~ 1GHz test | |
| - | PoE mode |
| Radiated emission above 1GHz test | |
| - | PoE mode |

3.3 EUT Operating Condition

- Placed the EUT on the test table.
- Prepare PC and PoE injector to act as a communication partner and placed it outside of testing area.
- The EUT was connected to PC via LAN and PoE.
- The communication partner sent data to EUT by command “ping” via LAN.
- The EUT sent video signal to PC via LAN cable.
- The server PC show IPCAM’s image on browser.
- The EUT write data with Micro SD card.



3.4 Description of Support Unit

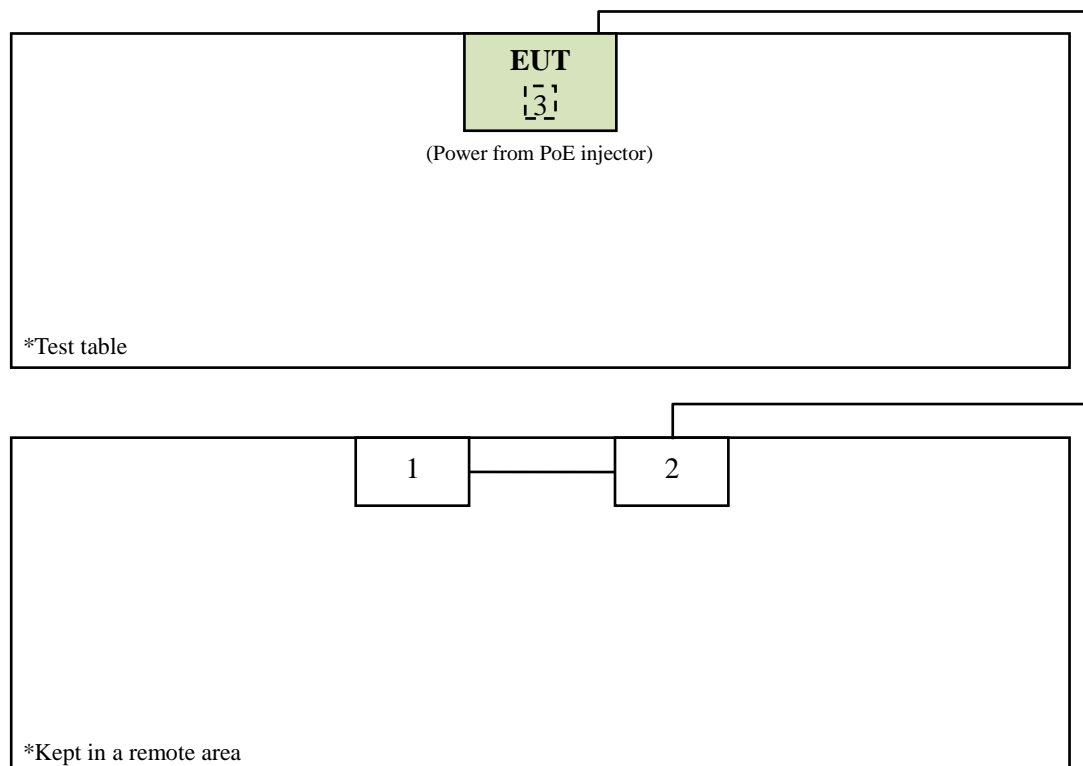
The EUT has been conducted testing with other necessary accessories or support units.

| Item | Equipment | Brand | Model No. | Serial No. | FCC ID | Data Cable | Power Cord | Remark |
|------|---------------|-------|-----------|------------|------------------|------------------------------------|-------------------------|--------|
| 1 | Desktop PC | DELL | D13M | H6K10 A00 | FCC DoC Approved | 1m CAT.5E non-shielded RJ45 cable | 1.8m non-shielded cable | - |
| 2 | PoE injector | CISCO | MA-INJ-4 | N/A | N/A | 20m CAT.5E non-shielded RJ45 cable | 1.8m non-shielded cable | - |
| 3 | Micro SD card | ADATA | 32GB | N/A | N/A | N/A | N/A | - |

- Note:**
1. The core(s) is(are) originally attached to the cable(s).
 2. Item 1-2 acted as communication partners to transfer data.
 3. The EUT uses the follow adapter and PoE:

| PoE injector (support unit only) | |
|----------------------------------|----------------------------|
| Brand | CISCO |
| Model | MA-INJ-4 |
| Input Power | 100-240Vac, 0.67A, 50/60Hz |
| Output Power | 55Vdc, 0.6A |
| Power line | 1.8m non-shielded cable |

3.5 Configuration of System Under Test





4 Emission Test

4.1 Conducted Emission Measurement

The test is determined no necessary for the EUT do not operate from the AC main power lines or contain provisions for operation while connected to the AC main power lines.

4.2 Radiated Emission Measurement

4.2.1 Limits of Radiated Emission Measurement

Radiated Frequency range 30 MHz to 1000 MHz

| FCC 15B Radiated Emissions Limits | | | | |
|-----------------------------------|----------------------------------|-----------------------------------|----------------------------------|-----------------------------------|
| Frequency range (MHz) | Class A (3m) Quasi-peak (dBμV/m) | Class A (10m) Quasi-peak (dBμV/m) | Class B (3m) Quasi-peak (dBμV/m) | Class B (10m) Quasi-peak (dBμV/m) |
| 30 - 88 | 49.5 | 39.1 | 40 | 29.5 |
| 88 - 216 | 54 | 43.5 | 43.5 | 33.1 |
| 216 - 230 | 56.9 | 46.4 | 46 | 35.6 |
| 230 - 960 | | | | |
| 960 - 1000 | 60 | 49.5 | 54 | 43.5 |

- Note:**
1. The lower limit shall apply at the transition frequency.
 2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
 3. The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
 + Cable loss (preamplifier to receiver)
 Margin Level = Measurement Value - Limit Value

**Radiated Frequency range above 1 GHz**

| FCC 15B Radiated Emissions Limits | | | | |
|-----------------------------------|--------------------------|---------|--------------------------|---------|
| Frequency range (GHz) | Class A (3m) (dBμV/m) | | Class B (3m) (dBμV/m) | |
| | Peak | Average | Peak | Average |
| 1 - 40 | 80 | 60 | 74 | 54 |

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

2. Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average

3. The test result calculated as following:

Measurement Value = Reading Level + Correct Factor

Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
+ Cable loss (preamplifier to receiver)

Margin Level = Measurement Value - Limit Value

Frequency Range (For unintentional radiators)

| Highest frequency generated or used in the device or on which the device operates or tunes (MHz) | Upper frequency of measurement range (MHz) |
|---|---|
| Below 1.705 | 30 |
| 1.705-108 | 1000 |
| 108-500 | 2000 |
| 500-1000 | 5000 |
| Above 1000 | 5th harmonic of the highest frequency or 40GHz, whichever is lower |



4.2.2 Test Instrument

| Test Site: W08-966 | | | | | |
|--------------------|---|--------------|-------------------------------|------------|------------------------|
| Item | Equipment | Manufacturer | Model | Meter No. | Calibration Date |
| 1 | Horn Antenna | Schwarzbeck | BBHA 9120D | CT-9-031 | Jul. 28, 2020 |
| 2 | Horn Antenna | Schwarzbeck | BBHA 9170 | CT-9-032 | Dec. 03, 2020 |
| 3 | TRILOG Broadband Antenna with 5 dB Attenuator | Schwarzbeck | VULB 9168 & FAT-NM5NF5T3G 2W5 | CT-1-002-1 | Jul. 29, 2020 |
| 4 | EXA Signal Analyzer | Keysight | N9010A | CT-1-093 | Apr. 21, 2021 |
| 5 | EMI Test Receiver | Keysight | N9038A | CT-9-007 | Jul. 28, 2020 |
| 6 | Preamplifier | EM | EM 330 | CT-9-024 | Jul. 30, 2020 |
| 7 | Preamplifier | JPT | JPA0118-55-303K | CT-1-139 | Apr. 21, 2021 |
| 8 | Preamplifier | EMCI | EMC051845SE | CT-9-012 | Sep. 04, 2020 |
| 9 | Preamplifier | EMCI | EMC184045SE | CT-9-013 | Sep. 04, 2020 |
| 10 | Test Cable | EMCI | EMCCFD400-NM-NM-1000 | CT-1-132 | Jul. 29, 2020 |
| 11 | Test Cable | PEWC | CFD400NL-LW-N M-NM-3000 | CT-1-141 | Jul. 30, 2020 |
| 12 | Test Cable | EMCI | EMCCFD400-NM-NM-15000 | CT-1-133 | Jul. 30, 2020 |
| 13 | Test Cable | EMCI | EMC104-SM-35M-600 | CT-1-134 | Jul. 30, 2020 |
| 14 | Test Cable | EMCI | EMC104-SM-35M-15000 | CT-1-135 | Jul. 30, 2020 |
| 15 | Test Cable | EMCI | EMC102-KM-KM-600 | CT-1-136 | Jul. 30, 2020 |
| 16 | Test Cable | MVE | 140140.LL404.700 | CT-9-066 | Apr. 21, 2021 |
| 17 | Measurement Software | EZ-EMC | Ver : FA-03A2 RE | CT-3-012 | No calibration request |

Note: 1. The calibration interval of the above test instruments is 12 months.

4.2.3 Test Procedure

- a. The table-top EUT was placed on the top of a turntable 0.8 meters above the ground at 3 m 966 chamber. The floor-standing EUT and all cables shall be insulated from the ground plane by up to 12 mm of insulating material if required. The table was rotated 360 degrees to determine the position of the high radiation emissions.
- b. The height of the test antenna shall vary between 1 m to 4 m. Both vertical and horizontal polarizations of the antenna were set to make the measurement.
- c. The EUT was set up as per the test configuration to simulate typical usage per the user's manual. All I/O cables were positioned to simulate typical usage. The actual test configuration, please refer to EUT test photos.
- d. The initial step in collecting radiated emission data is a Spectrum Mode scanning the measurement frequency range.

Below 1GHz:

Reading in which marked as QP or Peak means measurements by using Spectrum Mode with detector RBW=120kHz.

If the Spectrum Mode measured peak value compliance with and lower than Quasi Peak Limit, the EUT shall be deemed to meet QP Limits.

Above 1GHz:

Reading in which marked as Peak & AVG means measurements by using Spectrum Mode with setting in RBW=1MHz.

If the Spectrum Mode measured value compliance with the Peak Limits and lower than AVG Limits, the EUT shall be deemed to meet both Peak and AVG Limits.

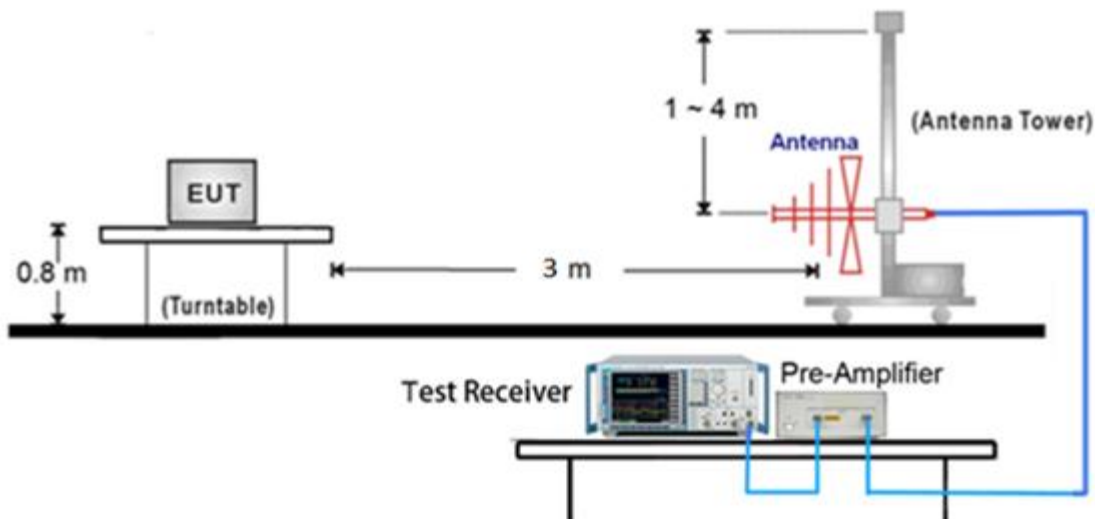
- e. Emission frequency and amplitude were recorded, recording at least six highest emissions. The EUT and cable configuration of the above highest emission levels were recorded. The test data of the worst case was recorded.

4.2.4 Deviation from Test Standard

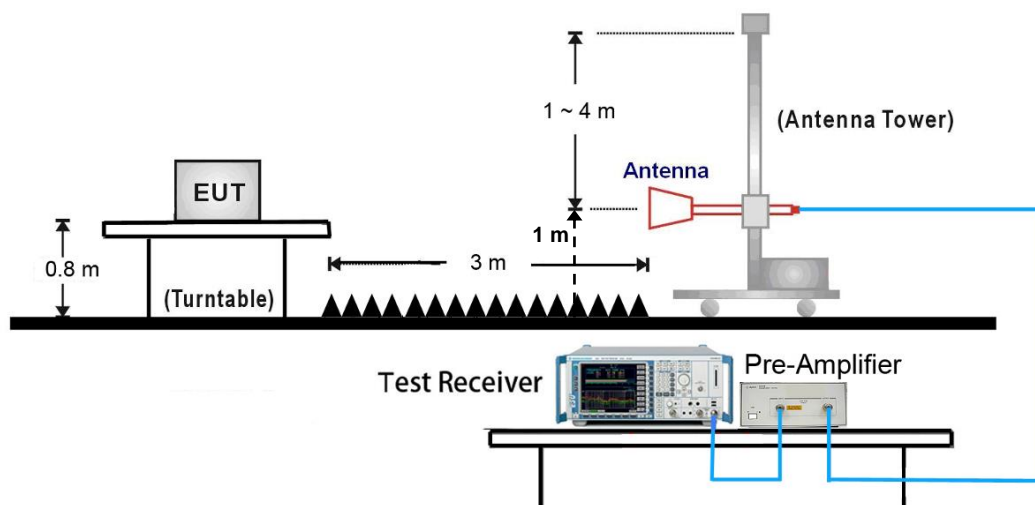
No deviation

4.2.5 Test Setup

< Radiated Emissions Frequency: 30 MHz to 1000 MHz >



< Radiated Emissions Frequency: above 1GHz >

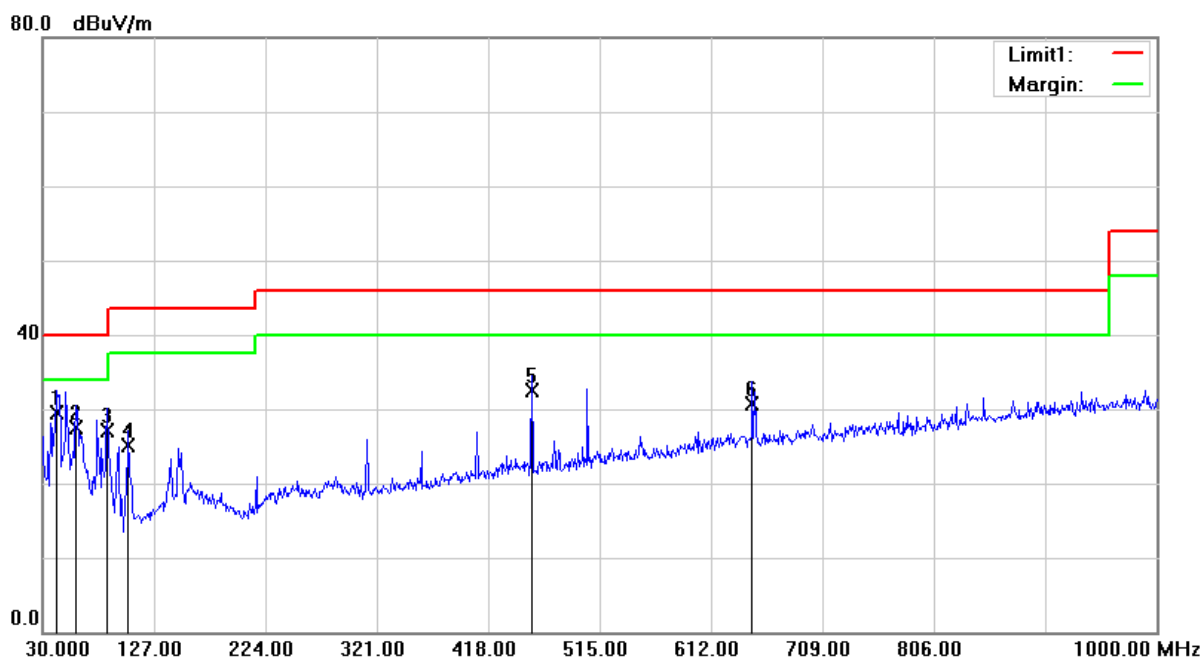


Note:

- (1) Please refer to the 4.2.7 for the actual test configuration.
- (2) The formula of measured value as: Test Result = Reading + Correction Factor
- (3) Detector function in the form: PK = Peak, QP = Quasi Peak, AV = Average
- (4) The test result calculated as following:
 Measurement Value = Reading Level + Correct Factor
 Correct Factor = Antenna Factor + Cable Loss - Amplifier Gain (if use)
 Margin Level = Measurement Value - Limit Value

4.2.6 Test Result

| | | | |
|--------------------------|------------------|-----------------|---------------|
| Test Voltage | 55Vdc (from PoE) | Frequency Range | 30 – 1000 MHz |
| Environmental Conditions | 22°C, 55% RH | 6dB Bandwidth | 120 kHz |
| Test Date | 2021/06/07 | Test Distance | 3m |
| Tested by | Karwin Kao | Polarization | Vertical |
| Test Site | W08 | | |



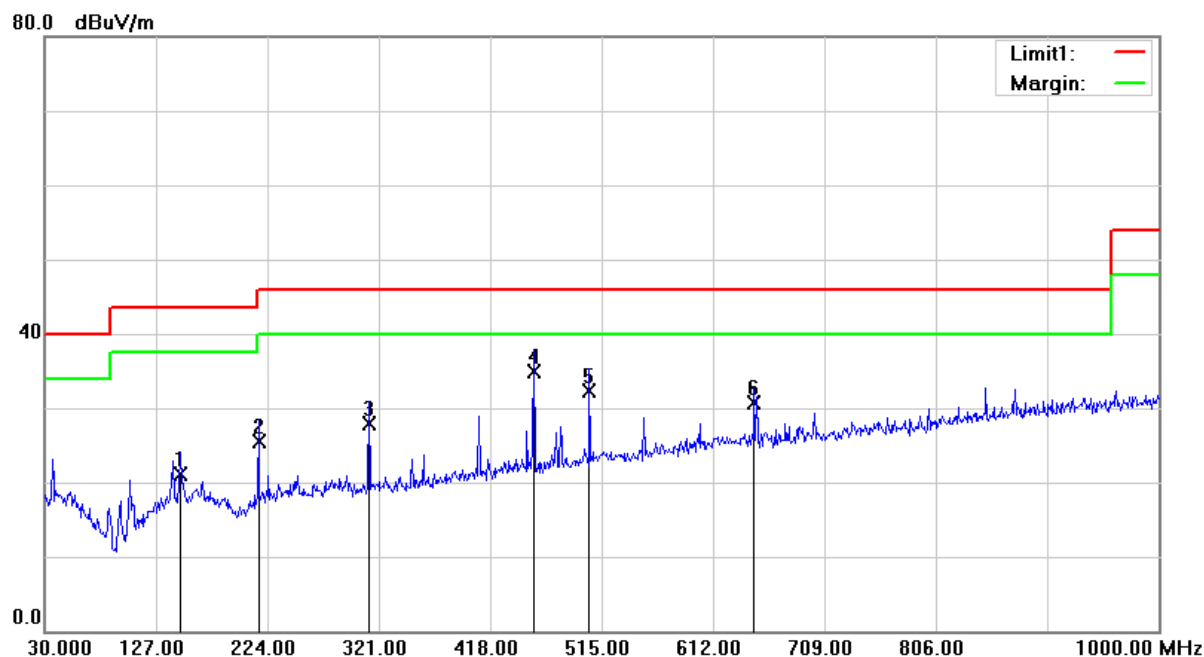
| No. | Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Table Degree (degree) | Antenna Height (cm) | Detector |
|-----|-----------------|----------------------|-----------------------|----------------------|----------------|-------------|-----------------------|---------------------|----------|
| 1 | 42.6100 | 38.76 | -9.18 | 29.58 | 40.00 | -10.42 | 65 | 100 | QP |
| 2 | 59.1000 | 37.79 | -10.29 | 27.50 | 40.00 | -12.50 | 360 | 100 | QP |
| 3 | 86.2600 | 42.60 | -15.50 | 27.10 | 40.00 | -12.90 | 298 | 200 | QP |
| 4 | 104.6900 | 38.44 | -13.41 | 25.03 | 43.50 | -18.47 | 360 | 100 | QP |
| 5 | 455.8300 | 37.32 | -4.75 | 32.57 | 46.00 | -13.43 | 55 | 200 | QP |
| 6 | 647.8900 | 31.87 | -1.12 | 30.75 | 46.00 | -15.25 | 158 | 100 | QP |

Remark:

1. QP = Quasi Peak
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



| | | | |
|--------------------------|------------------|-----------------|---------------|
| Test Voltage | 55Vdc (from PoE) | Frequency Range | 30 – 1000 MHz |
| Environmental Conditions | 22°C, 55% RH | 6dB Bandwidth | 120 kHz |
| Test Date | 2021/06/07 | Test Distance | 3m |
| Tested by | Karwin Kao | Polarization | Horizontal |
| Test Site | W08 | | |



| No. | Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Table Degree (degree) | Antenna Height (cm) | Detector |
|-----|-----------------|----------------------|-----------------------|----------------------|----------------|-------------|-----------------------|---------------------|----------|
| 1 | 148.3400 | 30.23 | -9.21 | 21.02 | 43.50 | -22.48 | 104 | 200 | QP |
| 2 | 216.2400 | 35.84 | -10.39 | 25.45 | 46.00 | -20.55 | 101 | 100 | QP |
| 3 | 312.2700 | 35.72 | -7.90 | 27.82 | 46.00 | -18.18 | 231 | 100 | QP |
| 4 | 455.8300 | 39.70 | -4.75 | 34.95 | 46.00 | -11.05 | 274 | 200 | QP |
| 5 | 504.3300 | 36.06 | -3.83 | 32.23 | 46.00 | -13.77 | 258 | 200 | QP |
| 6 | 647.8900 | 31.75 | -1.12 | 30.63 | 46.00 | -15.37 | 238 | 100 | QP |

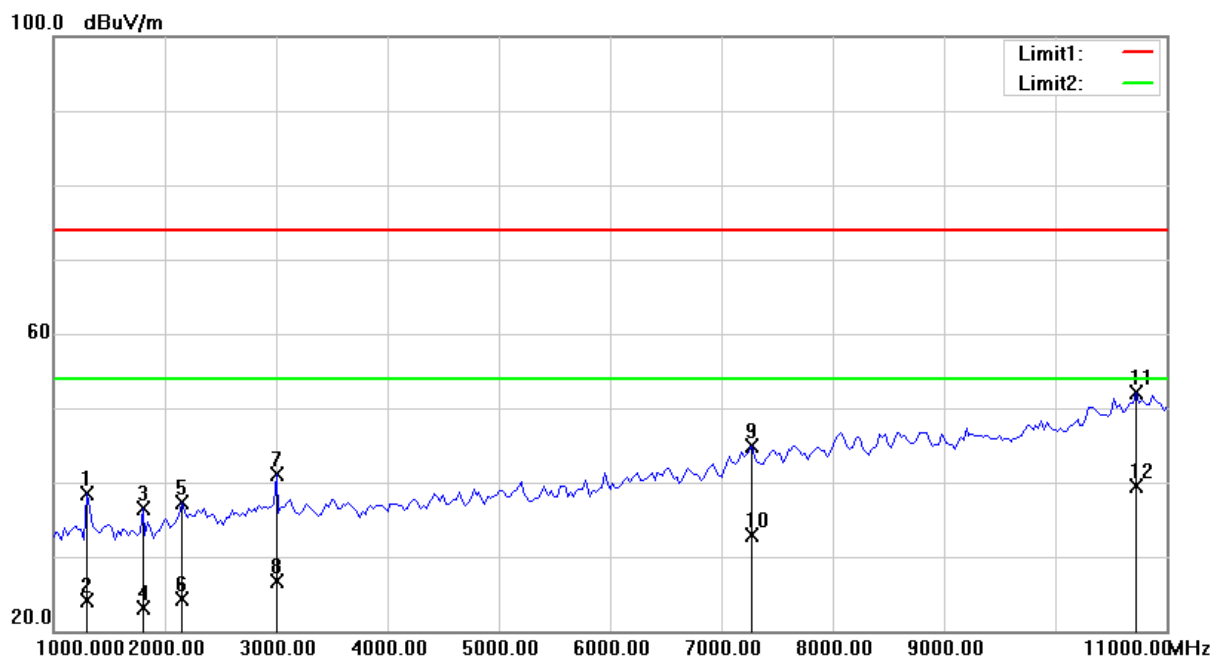
Remark: 1. QP = Quasi Peak

2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain
+ Cable loss (preamplifier to receiver)

3. Measurement Value = Reading Level + Correct Factor

4. Margin Level = Measurement Value - Limit Value

| | | | |
|--------------------------|------------------|-----------------|-----------|
| Test Voltage | 55Vdc (from PoE) | Frequency Range | 1 – 11GHz |
| Environmental Conditions | 22°C, 55% RH | 6dB Bandwidth | 1MHz |
| Test Date | 2021/06/08 | Test Distance | 3m |
| Tested by | Karwin Kao | Polarization | Vertical |
| Test Site | W08 | | |



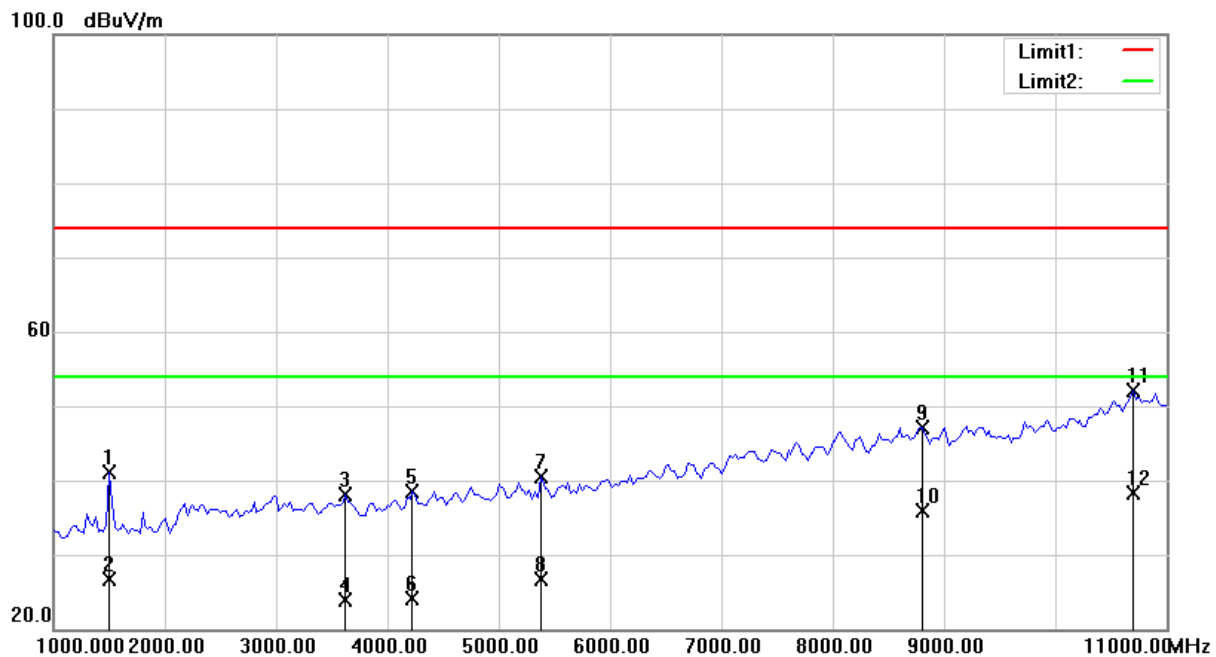
| No. | Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Table Degree (degree) | Antenna Height (cm) | Detector |
|-----|-----------------|----------------------|-----------------------|----------------------|----------------|-------------|-----------------------|---------------------|----------|
| 1 | 1300.000 | 57.69 | -19.15 | 38.54 | 74.00 | -35.46 | 19 | 100 | peak |
| 2 | 1300.000 | 43.32 | -19.15 | 24.17 | 54.00 | -29.83 | 19 | 100 | AVG |
| 3 | 1800.000 | 55.29 | -18.70 | 36.59 | 74.00 | -37.41 | 0 | 136 | peak |
| 4 | 1800.000 | 41.72 | -18.70 | 23.02 | 54.00 | -30.98 | 0 | 136 | AVG |
| 5 | 2150.000 | 53.07 | -15.87 | 37.20 | 74.00 | -36.80 | 145 | 100 | peak |
| 6 | 2150.000 | 40.09 | -15.87 | 24.22 | 54.00 | -29.78 | 145 | 100 | AVG |
| 7 | 3000.000 | 54.79 | -13.73 | 41.06 | 74.00 | -32.94 | 0 | 116 | peak |
| 8 | 3000.000 | 40.50 | -13.73 | 26.77 | 54.00 | -27.23 | 0 | 116 | AVG |
| 9 | 7275.000 | 47.50 | -2.67 | 44.83 | 74.00 | -29.17 | 173 | 200 | peak |
| 10 | 7275.000 | 35.48 | -2.67 | 32.81 | 54.00 | -21.19 | 173 | 200 | AVG |
| 11 | 10725.000 | 49.47 | 2.57 | 52.04 | 74.00 | -21.96 | 0 | 112 | peak |
| 12 | 10725.000 | 36.92 | 2.57 | 39.49 | 54.00 | -14.51 | 0 | 112 | AVG |

Remark:

1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value



| | | | |
|--------------------------|------------------|-----------------|------------|
| Test Voltage | 55Vdc (from PoE) | Frequency Range | 1 – 11GHz |
| Environmental Conditions | 22°C, 55% RH | 6dB Bandwidth | 1MHz |
| Test Date | 2021/06/08 | Test Distance | 3m |
| Tested by | Karwin Kao | Polarization | Horizontal |
| Test Site | W08 | | |



| No. | Frequency (MHz) | Reading Level (dBμV) | Correct Factor (dB/m) | Measurement (dBμV/m) | Limit (dBμV/m) | Margin (dB) | Table Degree (degree) | Antenna Height (cm) | Detector |
|-----|-----------------|----------------------|-----------------------|----------------------|----------------|-------------|-----------------------|---------------------|----------|
| 1 | 1500.000 | 60.10 | -19.03 | 41.07 | 74.00 | -32.93 | 0 | 111 | peak |
| 2 | 1500.000 | 45.72 | -19.03 | 26.69 | 54.00 | -27.31 | 0 | 111 | AVG |
| 3 | 3625.000 | 50.84 | -12.74 | 38.10 | 74.00 | -35.90 | 16 | 200 | peak |
| 4 | 3625.000 | 36.58 | -12.74 | 23.84 | 54.00 | -30.16 | 16 | 200 | AVG |
| 5 | 4225.000 | 49.95 | -11.53 | 38.42 | 74.00 | -35.58 | 0 | 184 | peak |
| 6 | 4225.000 | 35.55 | -11.53 | 24.02 | 54.00 | -29.98 | 0 | 184 | AVG |
| 7 | 5375.000 | 49.59 | -9.08 | 40.51 | 74.00 | -33.49 | 358 | 100 | peak |
| 8 | 5375.000 | 35.84 | -9.08 | 26.76 | 54.00 | -27.24 | 358 | 100 | AVG |
| 9 | 8800.000 | 48.14 | -0.99 | 47.15 | 74.00 | -26.85 | 123 | 100 | peak |
| 10 | 8800.000 | 36.82 | -0.99 | 35.83 | 54.00 | -18.17 | 123 | 100 | AVG |
| 11 | 10700.000 | 49.62 | 2.48 | 52.10 | 74.00 | -21.90 | 258 | 100 | peak |
| 12 | 10700.000 | 35.87 | 2.48 | 38.35 | 54.00 | -15.65 | 258 | 100 | AVG |

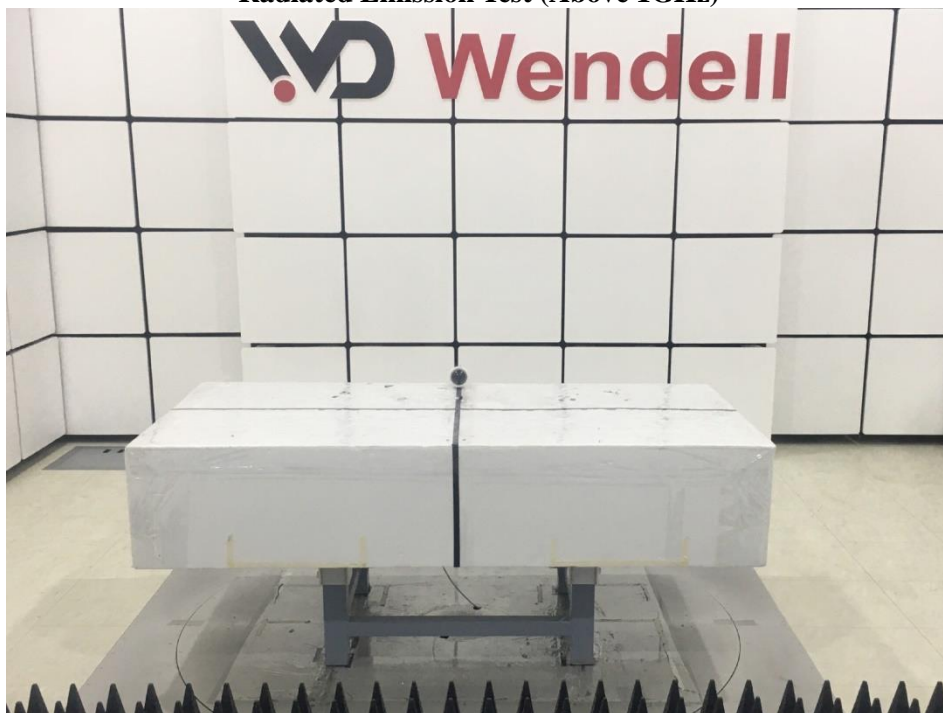
Remark: 1. peak = Peak, AVG = Average
2. Correction Factor = Antenna factor + Cable loss (Antenna to preamplifier) - preamplifier Gain + Cable loss (preamplifier to receiver)
3. Measurement Value = Reading Level + Correct Factor
4. Margin Level = Measurement Value - Limit Value

4.2.7 Photographs of Test Configuration

Radiated Emission Test (30MHz~1GHz)



Radiated Emission Test (Above 1GHz)



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