



FCC Test Report

Product Name : Rangefinder

Model No. : Pandar64, Pandar40 2.0, Pandar20A, Pandar20B

Applicant : Hesai Photonics Technology Co.,Ltd.

Address : Rm. J385, Building 6, No. 1288, Yecheng Rd.,
Jiading Dist., Shanghai City, China

Date of Receipt : Jan. 14, 2019

Test Date : Jan. 21, 2019 ~ Mar. 18, 2019

Issued Date : Mar. 26, 2019

Report No. : 1912016E-IT-US-P01V01

Report Version : V1.0

The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration of the equipment and evaluated measurement uncertainty herein.

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Issued Date : Mar. 26, 2019
Report No. : 1912016E-IT-US-P01V01



Product Name : Rangefinder
Applicant : Hesai Photonics Technology Co.,Ltd.
Address : Rm. J385, Building 6, No. 1288, Yecheng Rd., Jiading Dist.,
Shanghai City, China
Manufacturer : Hesai Photonics Technology Co., Ltd.
Address : Building B, 468 Xinlai Rd, Xuhang Town, Jiading District,
Shanghai City, China
Model No. : Pandar64, Pandar40 2.0, Pandar20A, Pandar20B
Brand Name : HESAI 
EUT Voltage : AC 100-240V, 50/60Hz
Test Voltage : AC 120V,60Hz
Applicable Standard : FCC CFR Title 47 Part 15 Subpart B: 2017 Class A
ANSI C63.4: 2014
Test Result : Complied
Performed Location : DEKRA Testing and Certification (Suzhou) Co., Ltd.
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1. General Information

1.1. EUT Description

| | |
|--------------|---|
| Product Name | Rangefinder |
| Model No. | Pandar64, Pandar40 2.0, Pandar20A, Pandar20B |
| Brand Name | HESAI  |

1. Pandar40 2.0、Pandar20A and Pandar20B are share a common structure with Pandar64. They all use the same laser emitter and optical design.
2. The energy of single laser pulse is the same for these products.
3. The main difference is that Pandar40 2.0 removes 24 laser channels and Pandar20A, Pandar20B removes 44 laser channels compared to Pandar64. Pandar20A and Pandar20B both have 20 emitting channels but their distribution (i.e. the emitting angles) are different. Laser emitting cycle remains unchanged while the unlighted laser channels still occupy the period. Another, Pandar64 is the appearance such as fin style heat-sink on top cover and mounting holes on the bottom. Pandar40 2.0、Pandar20A and Pandar20B have no fin style heat-sink on top cover.

1.2. Mode of Operation

We have verified the construction and function in typical operation. All the test modes were carried out with the EUT in normal operation, which was shown in this test report and defined as:

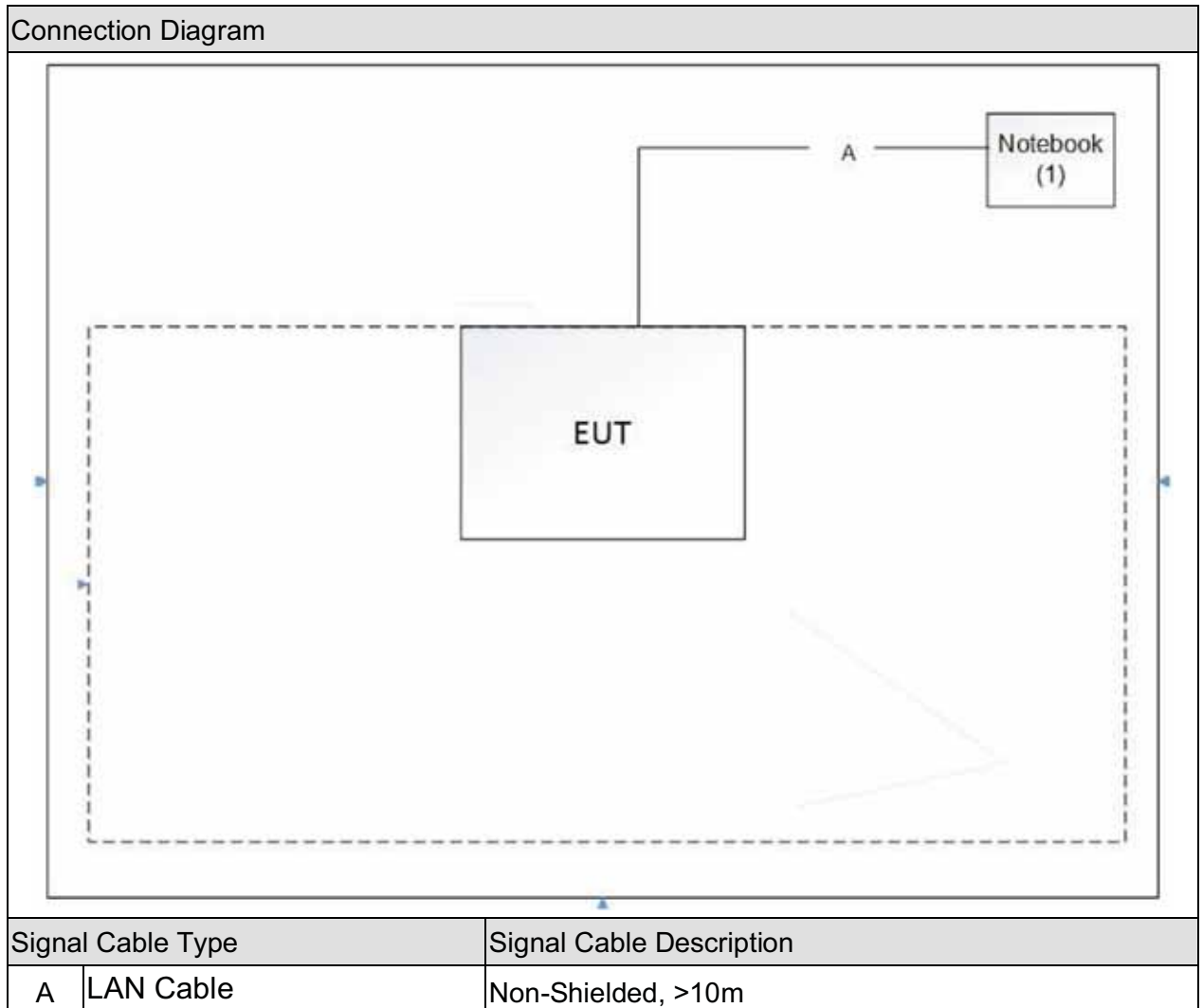
| |
|---|
| Pre Test Mode |
| Mode 1: Normal working (Model Pandar64) |
| Mode 2: Normal working (Model Pandar40 2.0) |
| Mode 3: Normal working (Model Pandar20A) |
| Mode 4: Normal working (Model Pandar20B) |
| Final Test Mode |
| Mode 1: Normal working (Model Pandar64) |
| Mode 2: Normal working (Model Pandar40 2.0) |
| Mode 3: Normal working (Model Pandar20A) |
| Mode 4: Normal working (Model Pandar20B) |

1.3. Tested System Details

The types for all equipments, plus descriptions of all cables used in the tested system (including inserted cards) are:

| Product | | Manufacturer | Model No. | Serial No. | Power Cord |
|---------|----------|--------------|---------------|------------|------------------|
| 1 | Notebook | DELL | Latitude 3450 | DTK1042 | Power by adapter |

1.4. Configuration of Tested System



1.5. EUT Exercise Software

| | |
|---|---|
| 1 | Setup the EUT and simulators as shown on above. |
| 2 | Turn on the power of all equipment. |
| 3 | Turn on the EUT. |
| 4 | Start test. |

2. Technical Test

2.1. Summary of Test Result

- No deviations from the test standards
- Deviations from the test standards as below description:

| Emission | | | |
|-----------------------|--|----------------|-----------|
| Performed Test Item | Normative References | Test Performed | Deviation |
| Conducted disturbance | FCC CFR Title 47 Part 15 Subpart B: 2017 Class A ANSI C63.4: 2014 | Yes | No |
| Radiated disturbance | FCC CFR Title 47 Part 15 Subpart B: 2017 Class A ANSI C63.4: 2014 | Yes | No |

2.2. List of Test Equipment

Conducted Emission / TR1

| Instrument | Manufacturer | Model No. | Serial No. | Cali. Date | Cali. Due Date |
|----------------------------|--------------|-----------|------------|------------|----------------|
| EMI Test Receiver | R&S | ESCI | 100906 | 2019.03.04 | 2020.03.04 |
| Two-Line V-Network | R&S | ENV216 | 101190 | 2018.06.09 | 2019.06.09 |
| Two-Line V-Network | R&S | ENV216 | 101044 | 2018.06.09 | 2019.06.09 |
| Current Probe | R&S | EZ-17 | 100678 | 2019.03.07 | 2020.03.07 |
| 50ohm Termination | SHX | TF2 | 07081402 | 2018.09.08 | 2019.09.08 |
| 50ohm Termination | SHX | TF2 | 07081403 | 2018.09.08 | 2019.09.08 |
| 50ohm Coaxial Switch | Anritsu | MP59B | 6200464462 | N/A | N/A |
| Coaxial Cable | Suhner | RG 223 | TR1-C1 | 2018.04.26 | 2019.04.26 |
| Temperature/Humidity Meter | Ruitesi | RTS-8S | TR1-TH | 2018.10.24 | 2019.10.24 |
| Software | Quietek | EMI_V3 | V3.0.0 | N/A | N/A |

Radiated Emission / AC1

| Instrument | Manufacturer | Model No. | Serial No. | Cali. Date | Cali. Due Date |
|----------------------------|--------------|-----------|-------------|------------|----------------|
| EMI Test Receiver | R&S | ESCI | 100175 | 2018.09.08 | 2019.09.08 |
| EMI Test Receiver | R&S | ESCI | 100726 | 2019.03.18 | 2020.03.18 |
| Preamplifier | Quietek | AP-025C | CHM-0602008 | 2018.04.10 | 2019.04.10 |
| Preamplifier | Quietek | AP-025C | CHM-0503006 | 2018.04.10 | 2019.04.10 |
| Bilog Antenna | Schaffner | CBL6112B | 2931 | 2018.05.18 | 2019.05.18 |
| Bilog Antenna | Schaffner | CBL6112B | 2933 | 2018.05.18 | 2019.05.18 |
| Coaxial Cable | Huber+Suhner | RG 214 U | AC1-L | 2018.10.10 | 2019.10.10 |
| Coaxial Cable | Huber+Suhner | RG 214 U | AC1-R | 2018.10.10 | 2019.10.10 |
| Temperature/Humidity Meter | Ruitesi | RTS-8S | AC1-TH | 2018.10.24 | 2019.10.24 |
| Software | Quietek | EMI_V3 | V3.0.0 | N/A | N/A |

Radiated Emission / AC2

| Instrument | Manufacturer | Model No. | Serial No. | Cali. Date | Cali. Due Date |
|----------------------------|--------------|-----------|------------|------------|----------------|
| EMI Test Receiver | R&S | ESCI | 100573 | 2019.03.04 | 2020.03.04 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27611 | 2018.06.09 | 2019.06.09 |
| Coaxial Cable | Huber+Suhner | RG 214 | AC2-C | 2019.02.28 | 2020.02.28 |
| Temperature/Humidity Meter | Ruitesi | RTS-8S | AC2-TH | 2018.10.24 | 2019.10.24 |
| Software | Quietek | EMI_V3 | V3.0.0 | N/A | N/A |

Radiated Emission / AC3

| Instrument | Manufacturer | Model No. | Serial No. | Cali. Date | Cali. Due Date |
|----------------------------|--------------|-----------|------------|------------|----------------|
| EMI Test Receiver | R&S | ESCI | 100176 | 2018.09.08 | 2019.09.08 |
| Bilog Antenna | Teseq GmbH | CBL6112D | 27613 | 2018.06.09 | 2019.06.09 |
| Coaxial Cable | Huber+Suhner | RG 214 | AC3-C | 2019.02.28 | 2020.02.28 |
| Temperature/Humidity Meter | Ruitesi | RTS-8S | AC3-TH | 2018.10.24 | 2019.10.24 |
| Software | Quietek | EMI_V3 | V3.0.0 | N/A | N/A |

Radiated Emission / AC5

| Instrument | Manufacturer | Model No. | Serial No. | Cali. Date | Cali. Due Date |
|---------------------|--------------|-----------|-------------|------------|----------------|
| EMI Receiver | Agilent | N9038A | MY51210196 | 2018.06.09 | 2019.06.09 |
| low Noise Amplifier | BXT | NA2651D | LNA17040209 | 2018.07.16 | 2019.07.16 |

| | | | | | |
|-------------------------------|-----------------|------------------------|----------|------------|------------|
| DRG Horn Antenna | ETS-Lindgren | 3117 | 00167055 | 2018.06.09 | 2019.06.09 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 106 | AC5-C2 | 2019.02.28 | 2020.02.28 |
| Pre-Amplifier | Chengyi | EMC184045SE | 980263 | 2018.09.08 | 2019.09.08 |
| Coaxial Cable | ROSENBERG ER | LA1-C011-2000/ 3000 | AC5-40G | 2019.02.08 | 2020.02.28 |
| Broad-Band Horn Antenna | Schwarzbeck | BBHA9170 | 294 | 2019.02.23 | 2020.02.23 |
| Temperature/Humidity Meter | Ruitesi | RTS-8S | AC5-TH | 2018.10.24 | 2019.10.24 |
| Software | Quietek | EMI_V3 | V3.0.0 | N/A | N/A |

2.3. Test Environment

Tests have been performed in a controlled laboratory environment, where the environmental conditions are maintained within the applicable ranges.

| Performed Item | Items | Required | Actual |
|-----------------------------------|----------------------------|----------|--------|
| Conducted Emission | Temperature (°C) | 10-40 | 23 |
| | Humidity (%RH) | 25-75 | 40 |
| | Barometric pressure (mbar) | 860-1060 | 1016 |
| Radiated Emission (30~1000MHz) | Temperature (°C) | 10-40 | 24 |
| | Humidity (%RH) | 25-75 | 41 |
| | Barometric pressure (mbar) | 860-1060 | 1014 |
| Radiated Emission (1~40GHz) | Temperature (°C) | 10-40 | 24 |
| | Humidity (%RH) | 25-75 | 41 |
| | Barometric pressure (mbar) | 860-1060 | 1014 |

2.4. Measurement Uncertainty

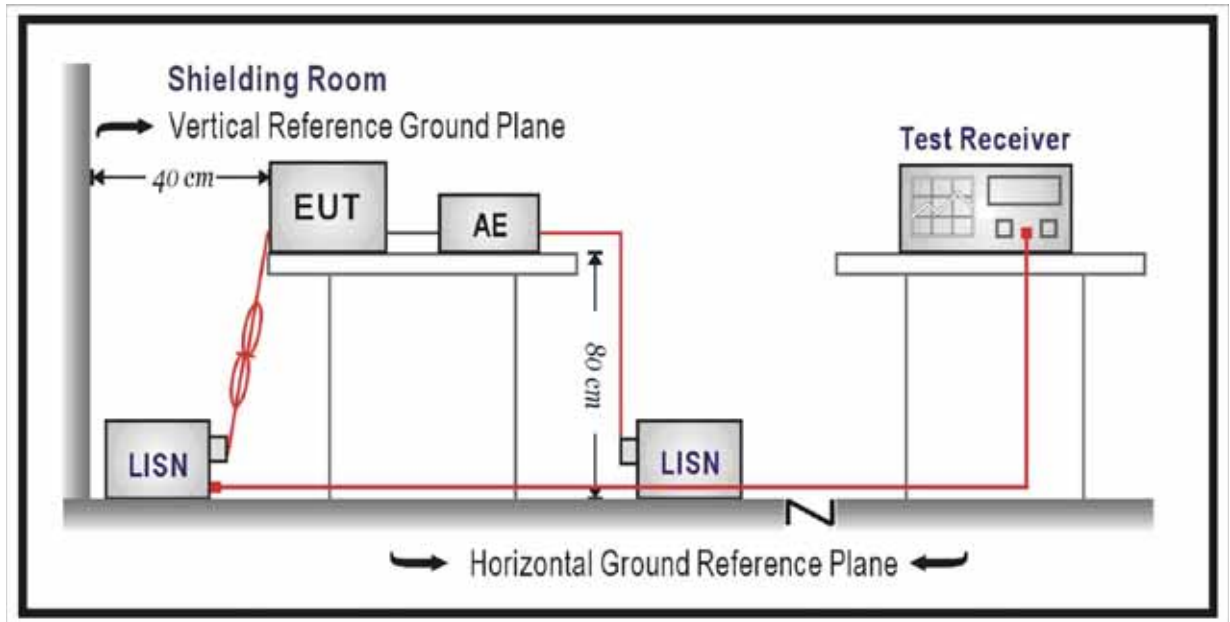
| |
|---|
| Conducted disturbance / TR1 |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>9kHz~150kHz: 2.80dB</p> <p>150kHz~30MHz: 2.40dB</p> |
| Radiated disturbance / AC1 |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.50 dB</p> <p> 300MHz~1GHz: 3.20 dB</p> <p> 1GHz~18GHz: 4.80 dB</p> <p>Vertical: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.10 dB</p> <p> 1GHz~18GHz: 4.50 dB</p> |
| Radiated disturbance / AC2 |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.10 dB</p> <p>Vertical: 30MHz~300MHz: 3.20 dB</p> <p> 300MHz~1GHz: 3.20 dB</p> |
| Radiated disturbance / AC3 |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.50 dB</p> <p> 300MHz~1GHz: 3.60 dB</p> <p>Vertical: 30MHz~300MHz: 3.60 dB</p> <p> 300MHz~1GHz: 3.50 dB</p> |
| Radiated disturbance / AC5 |
| <p>The maximum measurement uncertainty is evaluated as:</p> <p>Horizontal: 30MHz~300MHz: 3.90 dB</p> <p> 300MHz~1GHz: 3.60 dB</p> <p> 1GHz~18GHz: 5.00 dB</p> <p>Vertical: 30MHz~300MHz: 3.80 dB</p> <p> 300MHz~1GHz: 3.50 dB</p> <p> 1GHz~18GHz: 4.80 dB</p> |

3. Conducted disturbance

3.1. Test Specification

According to Standard: FCC Part 15.107 Class A, ANSI C63.4

3.2. Test Setup



3.3. Limit

| Limits for conducted disturbance of class A ITE | | |
|---|------------------------|---------|
| Frequency range MHz | Limits dB(μ V) | |
| | Quasi-peak | Average |
| 0.15 to 0.50 | 79 | 66 |
| 0.50 to 30 | 73 | 60 |

NOTE: The lower limit shall apply at the transition frequency.

| Limits for conducted disturbance of class B ITE | | |
|---|------------------------|----------|
| Frequency range MHz | Limits dB(μ V) | |
| | Quasi-peak | Average |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 |
| 0.50 to 5 | 56 | 46 |
| 5 to 30 | 60 | 50 |

NOTE 1: The lower limit shall apply at the transition frequencies.
NOTE 2: The limit decreases linearly with the logarithm of the frequency in the range 0.15MHz to 0.50MHz.

3.4. Test Procedure

The EUT and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a $50\Omega / 50\mu\text{H}$ coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a $50\Omega / 50\mu\text{H}$ coupling impedance with 50Ω termination. (Please refer to the block diagram of the test setup and photographs.)

Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed on conducted measurement.

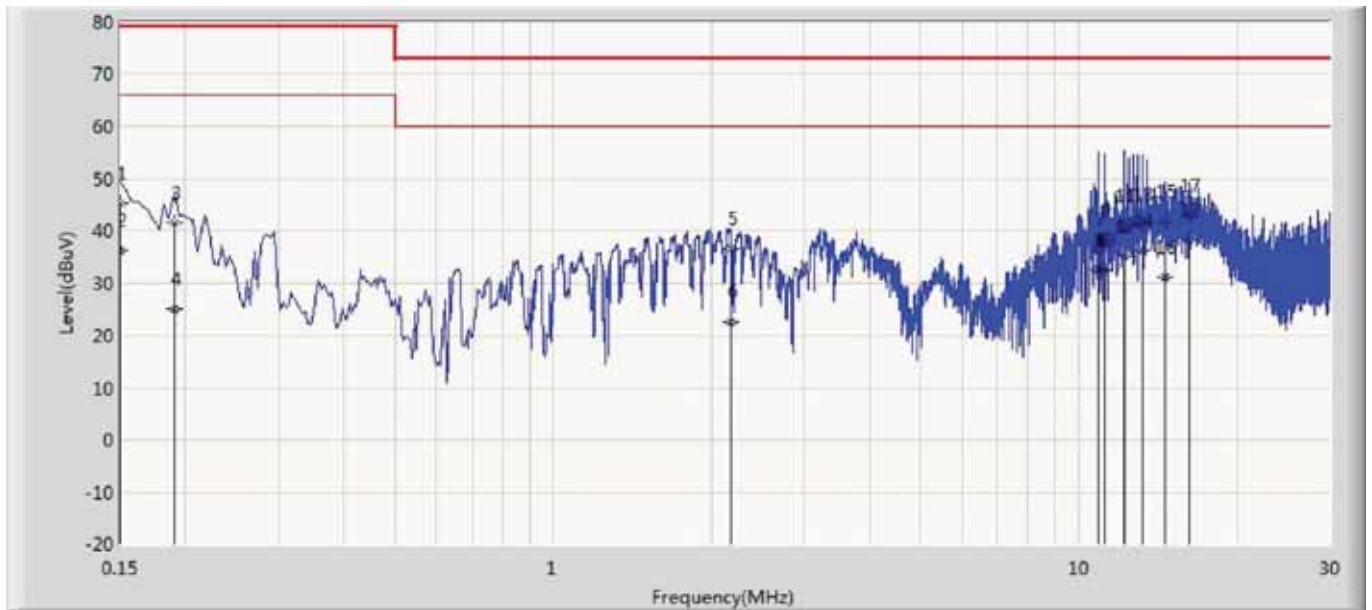
Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9kHz.

3.5. Deviation from Test Standard

No deviation.

3.6. Test Result

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 | |



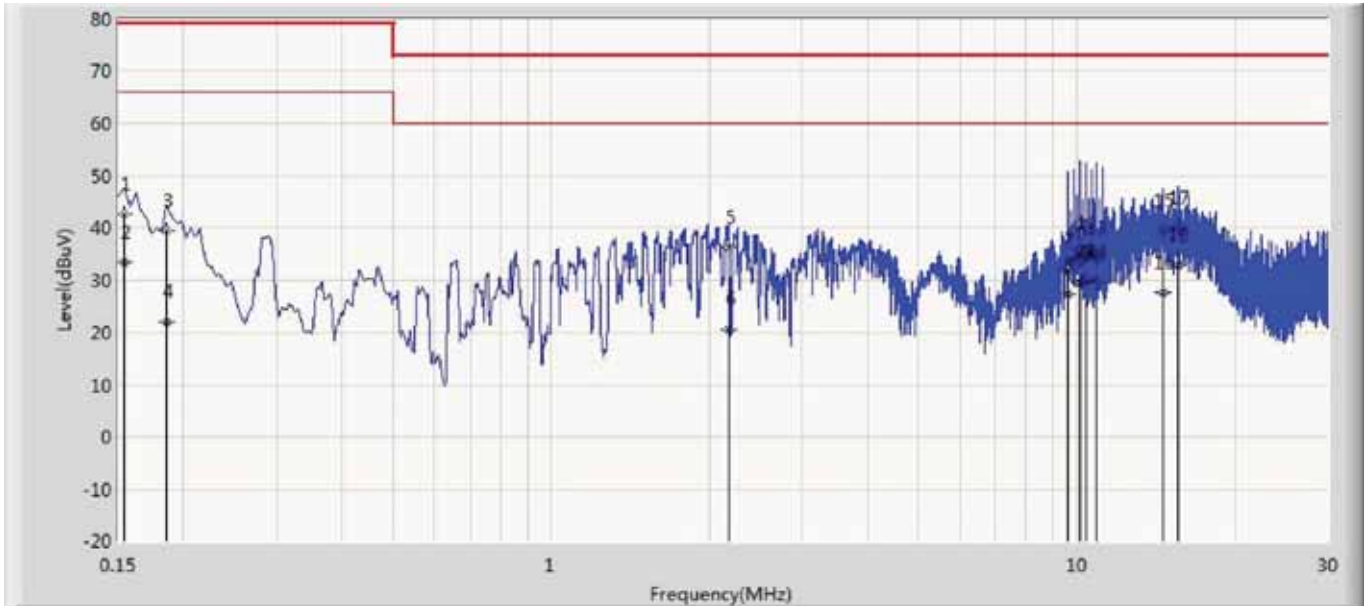
| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.150 | 45.163 | 35.524 | -33.837 | 79.000 | 9.610 | 0.029 | 0.000 | QP |
| 2 | | 0.150 | 36.260 | 26.622 | -29.740 | 66.000 | 9.610 | 0.029 | 0.000 | AV |
| 3 | | 0.190 | 41.552 | 31.922 | -37.448 | 79.000 | 9.602 | 0.028 | 0.000 | QP |
| 4 | | 0.190 | 25.010 | 15.380 | -40.990 | 66.000 | 9.602 | 0.028 | 0.000 | AV |
| 5 | | 2.178 | 36.651 | 26.946 | -36.349 | 73.000 | 9.613 | 0.092 | 0.000 | QP |
| 6 | | 2.178 | 22.467 | 12.762 | -37.533 | 60.000 | 9.613 | 0.092 | 0.000 | AV |
| 7 | | 10.910 | 36.251 | 26.247 | -36.749 | 73.000 | 9.793 | 0.210 | 0.000 | QP |
| 8 | | 10.910 | 32.390 | 22.386 | -27.610 | 60.000 | 9.793 | 0.210 | 0.000 | AV |
| 9 | | 11.166 | 38.179 | 28.165 | -34.821 | 73.000 | 9.800 | 0.213 | 0.000 | QP |
| 10 | | 11.166 | 32.399 | 22.386 | -27.601 | 60.000 | 9.800 | 0.213 | 0.000 | AV |
| 11 | | 12.194 | 40.926 | 30.876 | -32.074 | 73.000 | 9.827 | 0.223 | 0.000 | QP |
| 12 | | 12.194 | 35.171 | 25.121 | -24.829 | 60.000 | 9.827 | 0.223 | 0.000 | AV |
| 13 | | 13.222 | 41.304 | 31.217 | -31.696 | 73.000 | 9.854 | 0.233 | 0.000 | QP |
| 14 | | 13.222 | 36.181 | 26.094 | -23.819 | 60.000 | 9.854 | 0.233 | 0.000 | AV |
| 15 | | 14.578 | 41.831 | 31.698 | -31.169 | 73.000 | 9.889 | 0.245 | 0.000 | QP |

| | | | | | | | | | | |
|----|---|--------|--------|--------|---------|--------|-------|-------|-------|----|
| 16 | | 14.578 | 31.059 | 20.925 | -28.941 | 60.000 | 9.889 | 0.245 | 0.000 | AV |
| 17 | | 16.230 | 43.037 | 32.819 | -29.963 | 73.000 | 9.959 | 0.259 | 0.000 | QP |
| 18 | * | 16.230 | 38.231 | 28.014 | -21.769 | 60.000 | 9.959 | 0.259 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 | |



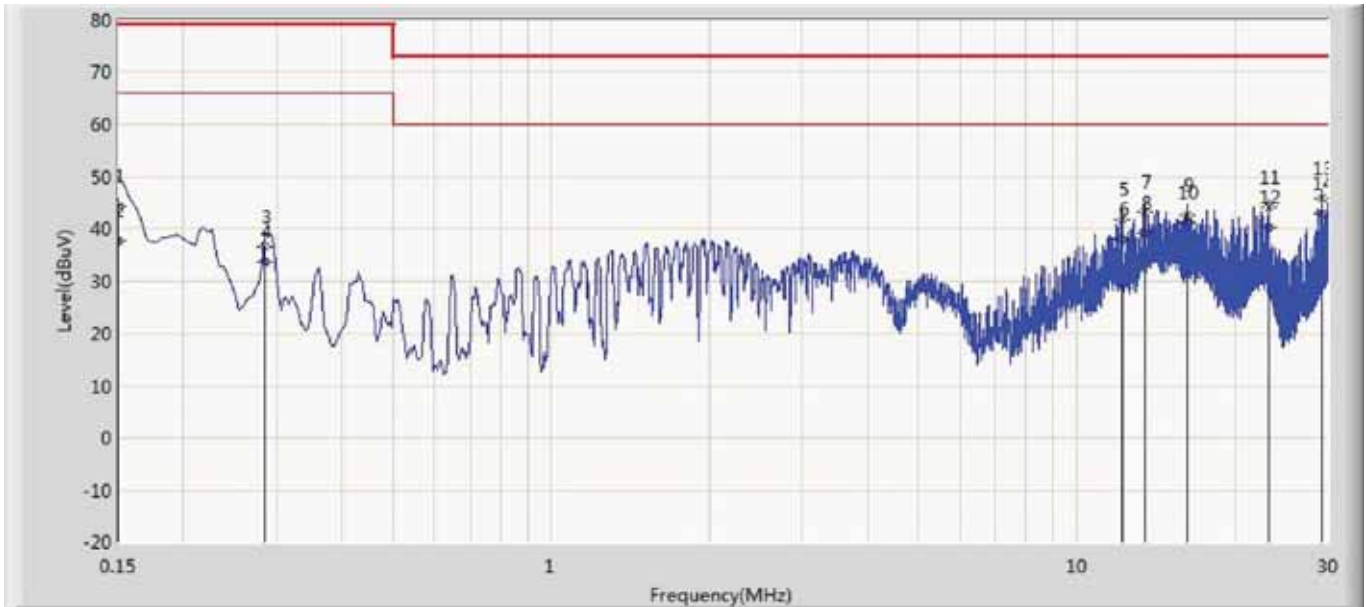
| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.154 | 42.642 | 33.020 | -36.358 | 79.000 | 9.593 | 0.029 | 0.000 | QP |
| 2 | | 0.154 | 33.239 | 23.617 | -32.761 | 66.000 | 9.593 | 0.029 | 0.000 | AV |
| 3 | | 0.186 | 39.382 | 29.757 | -39.618 | 79.000 | 9.597 | 0.028 | 0.000 | QP |
| 4 | | 0.186 | 22.114 | 12.489 | -43.886 | 66.000 | 9.597 | 0.028 | 0.000 | AV |
| 5 | | 2.178 | 36.298 | 26.594 | -36.702 | 73.000 | 9.612 | 0.092 | 0.000 | QP |
| 6 | | 2.178 | 20.448 | 10.744 | -39.552 | 60.000 | 9.612 | 0.092 | 0.000 | AV |
| 7 | | 9.630 | 31.936 | 21.959 | -41.064 | 73.000 | 9.779 | 0.198 | 0.000 | QP |
| 8 | | 9.630 | 27.265 | 17.288 | -32.735 | 60.000 | 9.779 | 0.198 | 0.000 | AV |
| 9 | | 10.142 | 33.367 | 23.369 | -39.633 | 73.000 | 9.795 | 0.203 | 0.000 | QP |
| 10 | | 10.142 | 29.166 | 19.168 | -30.834 | 60.000 | 9.795 | 0.203 | 0.000 | AV |
| 11 | | 10.398 | 35.073 | 25.064 | -37.927 | 73.000 | 9.803 | 0.205 | 0.000 | QP |
| 12 | | 10.398 | 29.733 | 19.725 | -30.267 | 60.000 | 9.803 | 0.205 | 0.000 | AV |
| 13 | | 10.910 | 34.266 | 24.235 | -38.734 | 73.000 | 9.820 | 0.210 | 0.000 | QP |
| 14 | | 10.910 | 29.572 | 19.541 | -30.428 | 60.000 | 9.820 | 0.210 | 0.000 | AV |
| 15 | | 14.582 | 39.374 | 29.183 | -33.626 | 73.000 | 9.946 | 0.245 | 0.000 | QP |
| 16 | | 14.582 | 27.677 | 17.487 | -32.323 | 60.000 | 9.946 | 0.245 | 0.000 | AV |

| | | | | | | | | | | |
|----|---|--------|--------|--------|---------|--------|-------|-------|-------|----|
| 17 | | 15.618 | 39.990 | 29.749 | -33.010 | 73.000 | 9.987 | 0.253 | 0.000 | QP |
| 18 | * | 15.618 | 32.763 | 22.523 | -27.237 | 60.000 | 9.987 | 0.253 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 | |

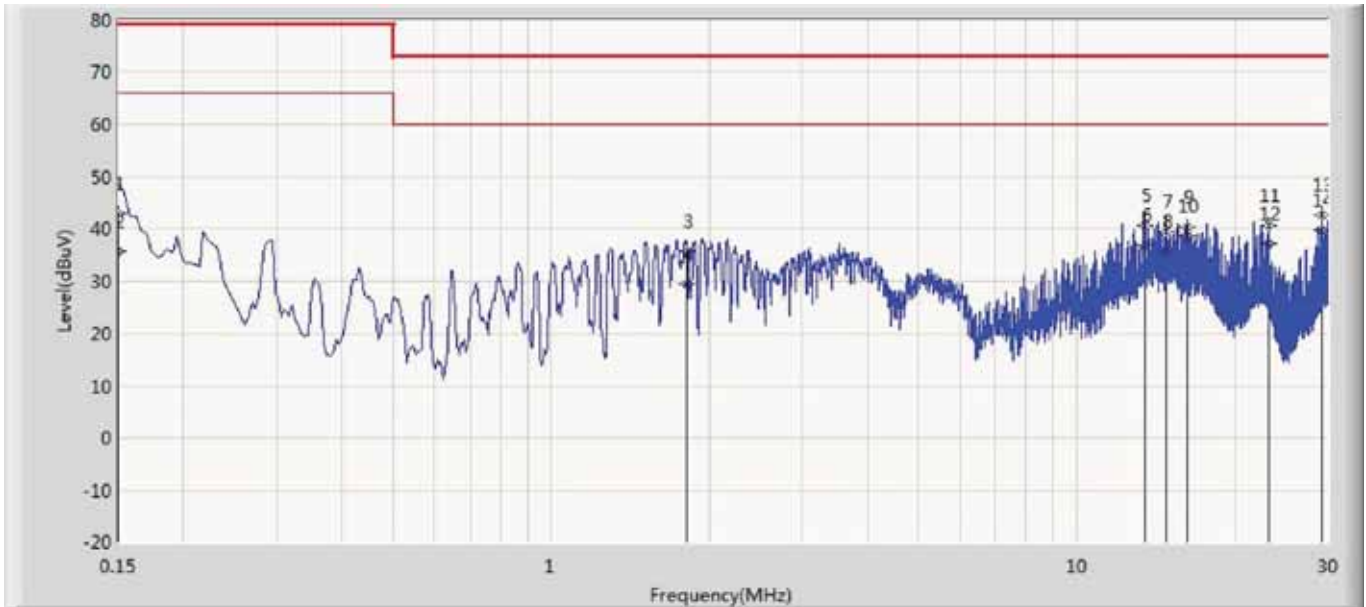


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.150 | 44.203 | 34.564 | -34.797 | 79.000 | 9.610 | 0.029 | 0.000 | QP |
| 2 | | 0.150 | 37.605 | 27.966 | -28.395 | 66.000 | 9.610 | 0.029 | 0.000 | AV |
| 3 | | 0.286 | 36.519 | 26.886 | -42.481 | 79.000 | 9.600 | 0.034 | 0.000 | QP |
| 4 | | 0.286 | 33.687 | 24.053 | -32.313 | 66.000 | 9.600 | 0.034 | 0.000 | AV |
| 5 | | 12.198 | 41.764 | 31.714 | -31.236 | 73.000 | 9.827 | 0.223 | 0.000 | QP |
| 6 | | 12.198 | 37.827 | 27.776 | -22.173 | 60.000 | 9.827 | 0.223 | 0.000 | AV |
| 7 | | 13.478 | 43.231 | 33.136 | -29.769 | 73.000 | 9.860 | 0.235 | 0.000 | QP |
| 8 | | 13.478 | 39.142 | 29.047 | -20.858 | 60.000 | 9.860 | 0.235 | 0.000 | AV |
| 9 | | 16.230 | 42.694 | 32.476 | -30.306 | 73.000 | 9.959 | 0.259 | 0.000 | QP |
| 10 | | 16.230 | 41.102 | 30.884 | -18.898 | 60.000 | 9.959 | 0.259 | 0.000 | AV |
| 11 | | 23.130 | 43.931 | 33.273 | -29.069 | 73.000 | 10.347 | 0.311 | 0.000 | QP |
| 12 | | 23.130 | 40.318 | 29.660 | -19.682 | 60.000 | 10.347 | 0.311 | 0.000 | AV |
| 13 | | 29.234 | 45.906 | 35.161 | -27.094 | 73.000 | 10.394 | 0.352 | 0.000 | QP |
| 14 | * | 29.234 | 43.021 | 32.275 | -16.979 | 60.000 | 10.394 | 0.352 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 | |

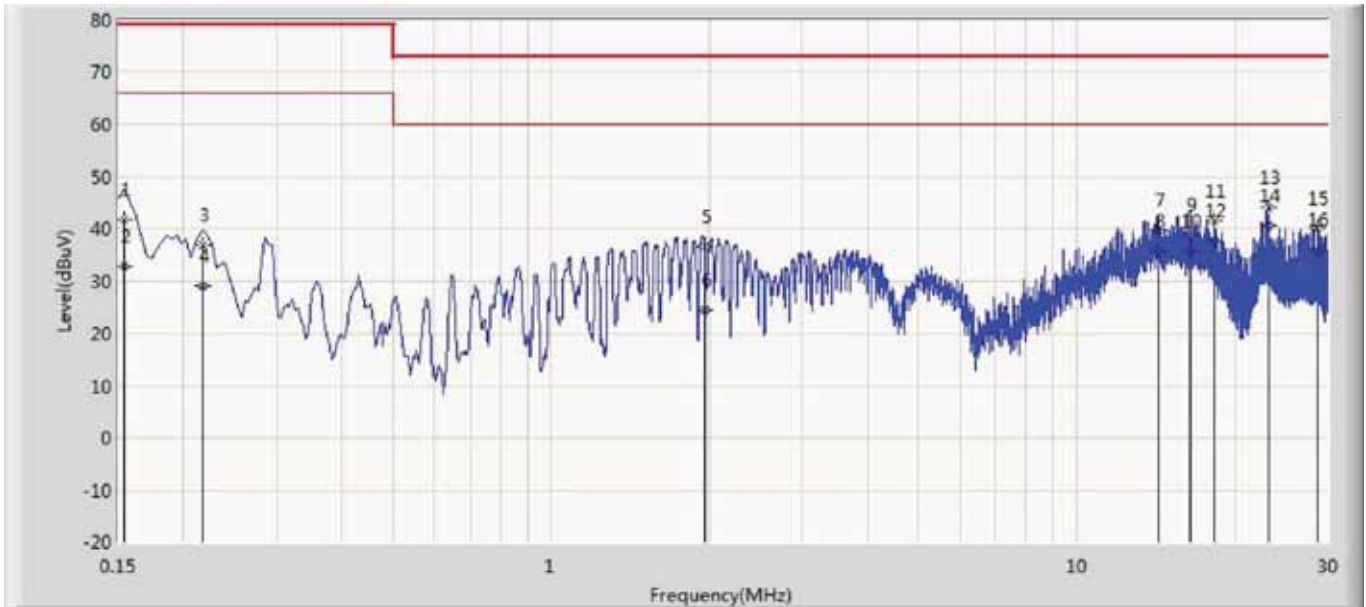


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.150 | 42.861 | 33.238 | -36.139 | 79.000 | 9.594 | 0.029 | 0.000 | QP |
| 2 | | 0.150 | 35.631 | 26.008 | -30.369 | 66.000 | 9.594 | 0.029 | 0.000 | AV |
| 3 | | 1.810 | 35.578 | 25.890 | -37.422 | 73.000 | 9.606 | 0.083 | 0.000 | QP |
| 4 | | 1.810 | 29.145 | 19.457 | -30.855 | 60.000 | 9.606 | 0.083 | 0.000 | AV |
| 5 | | 13.482 | 40.468 | 30.325 | -32.532 | 73.000 | 9.908 | 0.235 | 0.000 | QP |
| 6 | | 13.482 | 36.798 | 26.655 | -23.202 | 60.000 | 9.908 | 0.235 | 0.000 | AV |
| 7 | | 14.762 | 39.460 | 29.262 | -33.540 | 73.000 | 9.952 | 0.246 | 0.000 | QP |
| 8 | | 14.762 | 35.609 | 25.411 | -24.391 | 60.000 | 9.952 | 0.246 | 0.000 | AV |
| 9 | | 16.226 | 40.285 | 30.012 | -32.715 | 73.000 | 10.014 | 0.259 | 0.000 | QP |
| 10 | | 16.226 | 38.589 | 28.316 | -21.411 | 60.000 | 10.014 | 0.259 | 0.000 | AV |
| 11 | | 23.130 | 40.622 | 29.830 | -32.378 | 73.000 | 10.481 | 0.311 | 0.000 | QP |
| 12 | | 23.130 | 37.067 | 26.275 | -22.933 | 60.000 | 10.481 | 0.311 | 0.000 | AV |
| 13 | | 29.234 | 42.684 | 31.723 | -30.316 | 73.000 | 10.609 | 0.352 | 0.000 | QP |
| 14 | * | 29.234 | 39.736 | 28.775 | -20.264 | 60.000 | 10.609 | 0.352 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 | |

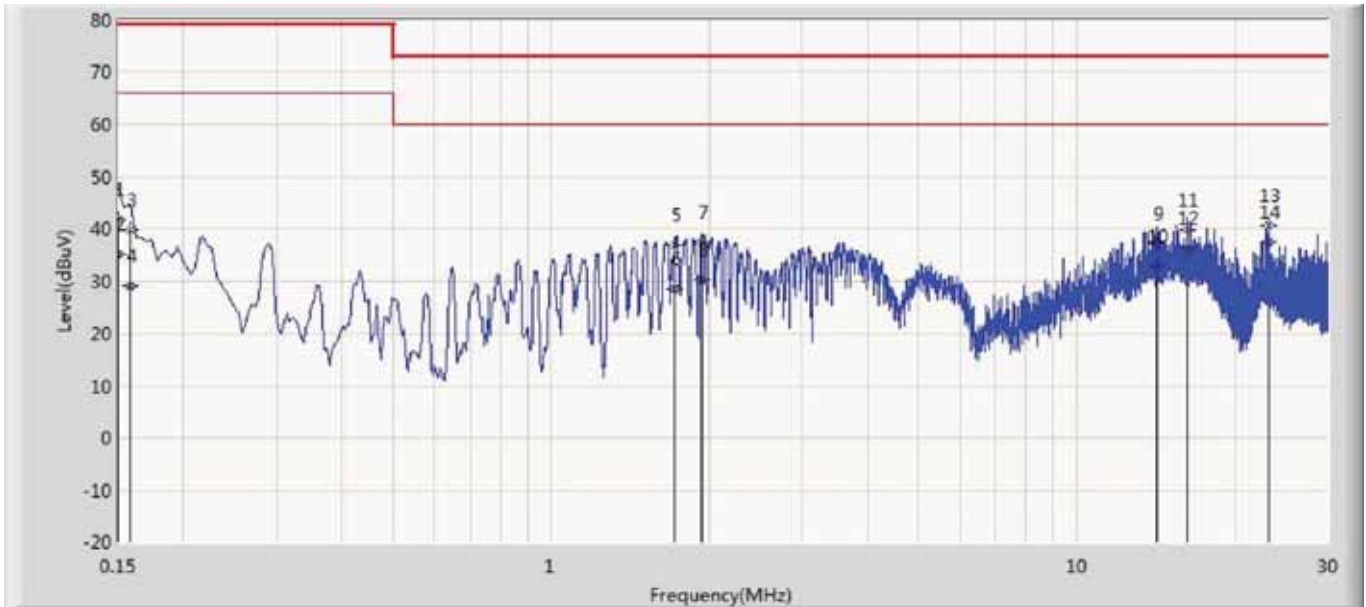


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.154 | 41.740 | 32.118 | -37.260 | 79.000 | 9.593 | 0.029 | 0.000 | QP |
| 2 | | 0.154 | 32.715 | 23.094 | -33.285 | 66.000 | 9.593 | 0.029 | 0.000 | AV |
| 3 | | 0.218 | 36.837 | 27.209 | -42.163 | 79.000 | 9.599 | 0.029 | 0.000 | QP |
| 4 | | 0.218 | 28.901 | 19.273 | -37.099 | 66.000 | 9.599 | 0.029 | 0.000 | AV |
| 5 | | 1.954 | 36.504 | 26.809 | -36.496 | 73.000 | 9.609 | 0.086 | 0.000 | QP |
| 6 | | 1.954 | 24.428 | 14.733 | -35.572 | 60.000 | 9.609 | 0.086 | 0.000 | AV |
| 7 | | 14.274 | 39.777 | 29.600 | -33.223 | 73.000 | 9.936 | 0.242 | 0.000 | QP |
| 8 | | 14.274 | 35.742 | 25.564 | -24.258 | 60.000 | 9.936 | 0.242 | 0.000 | AV |
| 9 | | 16.470 | 38.861 | 28.576 | -34.139 | 73.000 | 10.025 | 0.260 | 0.000 | QP |
| 10 | | 16.470 | 35.536 | 25.251 | -24.464 | 60.000 | 10.025 | 0.260 | 0.000 | AV |
| 11 | | 18.242 | 41.416 | 31.038 | -31.584 | 73.000 | 10.103 | 0.275 | 0.000 | QP |
| 12 | | 18.242 | 37.702 | 27.324 | -22.298 | 60.000 | 10.103 | 0.275 | 0.000 | AV |
| 13 | | 23.130 | 44.063 | 33.271 | -28.937 | 73.000 | 10.481 | 0.311 | 0.000 | QP |
| 14 | * | 23.130 | 40.669 | 29.877 | -19.331 | 60.000 | 10.481 | 0.311 | 0.000 | AV |
| 15 | | 28.562 | 39.934 | 28.970 | -33.066 | 73.000 | 10.617 | 0.347 | 0.000 | QP |
| 16 | | 28.562 | 35.820 | 24.856 | -24.180 | 60.000 | 10.617 | 0.347 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 | |

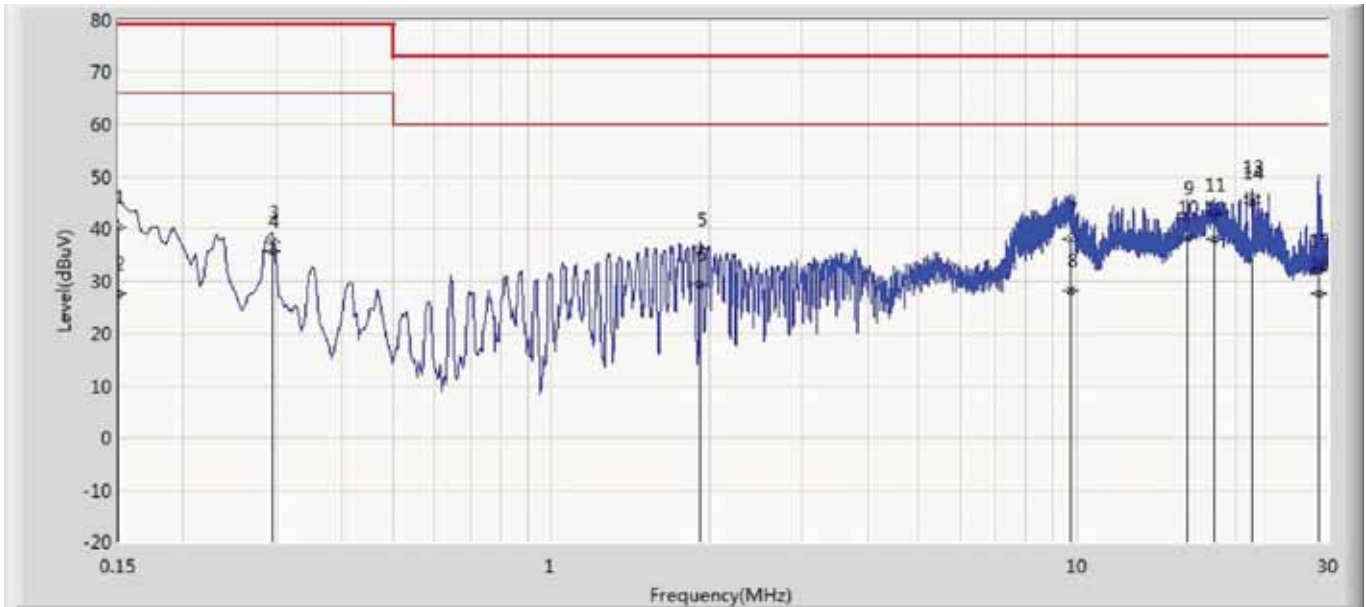


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.150 | 41.730 | 32.107 | -37.270 | 79.000 | 9.594 | 0.029 | 0.000 | QP |
| 2 | | 0.150 | 35.110 | 25.488 | -30.890 | 66.000 | 9.594 | 0.029 | 0.000 | AV |
| 3 | | 0.158 | 39.633 | 30.012 | -39.367 | 79.000 | 9.592 | 0.029 | 0.000 | QP |
| 4 | | 0.158 | 29.064 | 19.443 | -36.936 | 66.000 | 9.592 | 0.029 | 0.000 | AV |
| 5 | | 1.718 | 36.892 | 27.208 | -36.108 | 73.000 | 9.604 | 0.080 | 0.000 | QP |
| 6 | | 1.718 | 28.524 | 18.840 | -31.476 | 60.000 | 9.604 | 0.080 | 0.000 | AV |
| 7 | | 1.934 | 37.304 | 27.609 | -35.696 | 73.000 | 9.609 | 0.086 | 0.000 | QP |
| 8 | | 1.934 | 30.098 | 20.403 | -29.902 | 60.000 | 9.609 | 0.086 | 0.000 | AV |
| 9 | | 14.154 | 37.228 | 27.055 | -35.772 | 73.000 | 9.932 | 0.241 | 0.000 | QP |
| 10 | | 14.154 | 32.811 | 22.638 | -27.189 | 60.000 | 9.932 | 0.241 | 0.000 | AV |
| 11 | | 16.226 | 39.759 | 29.487 | -33.241 | 73.000 | 10.014 | 0.259 | 0.000 | QP |
| 12 | | 16.226 | 36.282 | 26.010 | -23.718 | 60.000 | 10.014 | 0.259 | 0.000 | AV |
| 13 | | 23.130 | 40.553 | 29.761 | -32.447 | 73.000 | 10.481 | 0.311 | 0.000 | QP |
| 14 | * | 23.130 | 37.349 | 26.557 | -22.651 | 60.000 | 10.481 | 0.311 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Line |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 | |

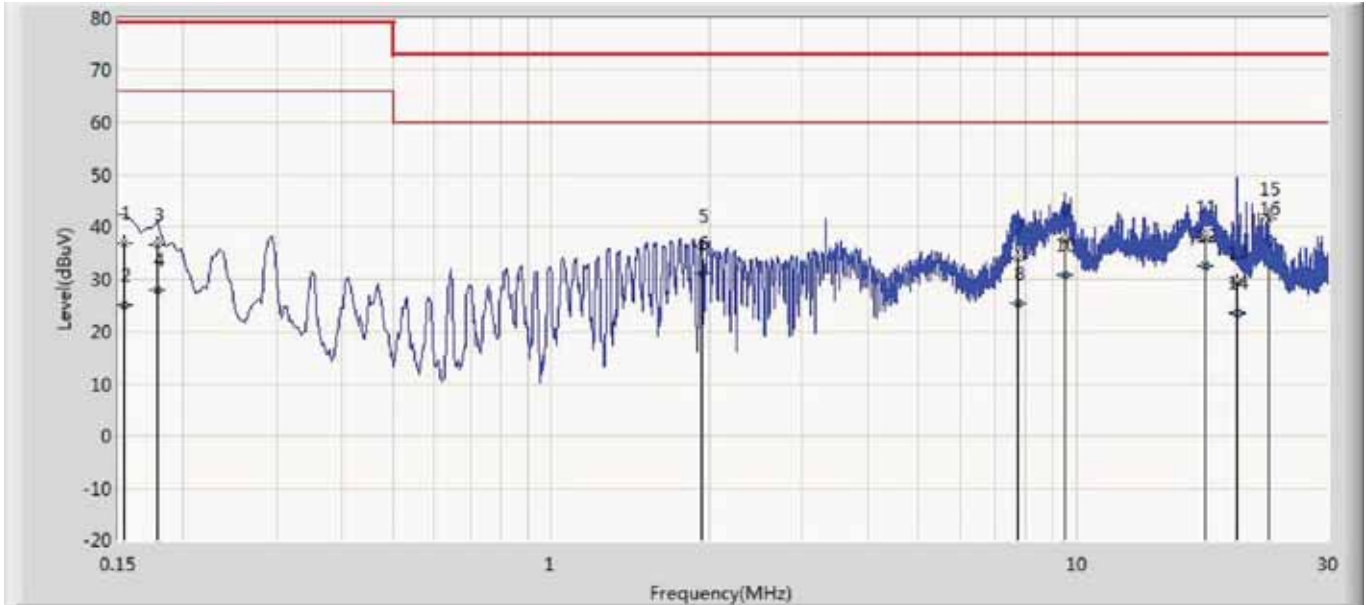


| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.150 | 40.361 | 30.723 | -38.639 | 79.000 | 9.610 | 0.029 | 0.000 | QP |
| 2 | | 0.150 | 27.494 | 17.855 | -38.506 | 66.000 | 9.610 | 0.029 | 0.000 | AV |
| 3 | | 0.294 | 37.336 | 27.702 | -41.664 | 79.000 | 9.600 | 0.034 | 0.000 | QP |
| 4 | | 0.294 | 35.636 | 26.003 | -30.364 | 66.000 | 9.600 | 0.034 | 0.000 | AV |
| 5 | | 1.922 | 35.843 | 26.147 | -37.157 | 73.000 | 9.610 | 0.085 | 0.000 | QP |
| 6 | | 1.922 | 29.184 | 19.488 | -30.816 | 60.000 | 9.610 | 0.085 | 0.000 | AV |
| 7 | | 9.754 | 37.990 | 28.027 | -35.010 | 73.000 | 9.764 | 0.198 | 0.000 | QP |
| 8 | | 9.754 | 28.227 | 18.265 | -31.773 | 60.000 | 9.764 | 0.198 | 0.000 | AV |
| 9 | | 16.226 | 42.171 | 31.953 | -30.829 | 73.000 | 9.959 | 0.259 | 0.000 | QP |
| 10 | | 16.226 | 38.397 | 28.179 | -21.603 | 60.000 | 9.959 | 0.259 | 0.000 | AV |
| 11 | | 18.242 | 42.487 | 32.156 | -30.513 | 73.000 | 10.056 | 0.275 | 0.000 | QP |
| 12 | | 18.242 | 37.857 | 27.526 | -22.143 | 60.000 | 10.056 | 0.275 | 0.000 | AV |
| 13 | | 21.570 | 45.946 | 35.402 | -27.054 | 73.000 | 10.244 | 0.300 | 0.000 | QP |
| 14 | * | 21.570 | 45.022 | 34.478 | -14.978 | 60.000 | 10.244 | 0.300 | 0.000 | AV |
| 15 | | 28.750 | 31.762 | 21.012 | -41.238 | 73.000 | 10.403 | 0.348 | 0.000 | QP |
| 16 | | 28.750 | 27.515 | 16.764 | -32.485 | 60.000 | 10.403 | 0.348 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--|---------------------|
| Engineer: Aaron | |
| Site: TR1 | Time: 2019/01/21 |
| Limit: FCC_Part15.107_CE_AC Power_ClassA | Margin: 0 |
| Probe: ENV216_101190(0.009-30MHz) | Polarity: Neutral |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV) | Probe (dB) | Cable (dB) | Amp (dB) | Type |
|----|------|-----------------|----------------------|----------------------|-----------------|--------------|------------|------------|----------|------|
| 1 | | 0.154 | 36.800 | 27.178 | -42.200 | 79.000 | 9.593 | 0.029 | 0.000 | QP |
| 2 | | 0.154 | 24.944 | 15.322 | -41.056 | 66.000 | 9.593 | 0.029 | 0.000 | AV |
| 3 | | 0.178 | 36.505 | 26.881 | -42.495 | 79.000 | 9.596 | 0.028 | 0.000 | QP |
| 4 | | 0.178 | 27.876 | 18.252 | -38.124 | 66.000 | 9.596 | 0.028 | 0.000 | AV |
| 5 | | 1.930 | 36.173 | 26.479 | -36.827 | 73.000 | 9.609 | 0.086 | 0.000 | QP |
| 6 | | 1.930 | 31.152 | 21.458 | -28.848 | 60.000 | 9.609 | 0.086 | 0.000 | AV |
| 7 | | 7.730 | 33.780 | 23.881 | -39.220 | 73.000 | 9.722 | 0.177 | 0.000 | QP |
| 8 | | 7.730 | 25.264 | 15.365 | -34.736 | 60.000 | 9.722 | 0.177 | 0.000 | AV |
| 9 | | 9.450 | 37.510 | 27.541 | -35.490 | 73.000 | 9.774 | 0.195 | 0.000 | QP |
| 10 | | 9.450 | 30.856 | 20.887 | -29.144 | 60.000 | 9.774 | 0.195 | 0.000 | AV |
| 11 | | 17.514 | 37.976 | 27.636 | -35.024 | 73.000 | 10.071 | 0.270 | 0.000 | QP |
| 12 | | 17.514 | 32.423 | 22.083 | -27.577 | 60.000 | 10.071 | 0.270 | 0.000 | AV |
| 13 | | 20.210 | 29.243 | 18.753 | -43.757 | 73.000 | 10.200 | 0.290 | 0.000 | QP |
| 14 | | 20.210 | 23.364 | 12.874 | -36.636 | 60.000 | 10.200 | 0.290 | 0.000 | AV |
| 15 | | 23.130 | 41.547 | 30.755 | -31.453 | 73.000 | 10.481 | 0.311 | 0.000 | QP |
| 16 | * | 23.130 | 37.586 | 26.794 | -22.414 | 60.000 | 10.481 | 0.311 | 0.000 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

3.7. Test Photograph

Test Mode: Mode 1-4

Description: Front View of Conducted disturbance Test Setup



Test Mode: Mode 1-4

Description: Side View of Conducted disturbance Test Setup



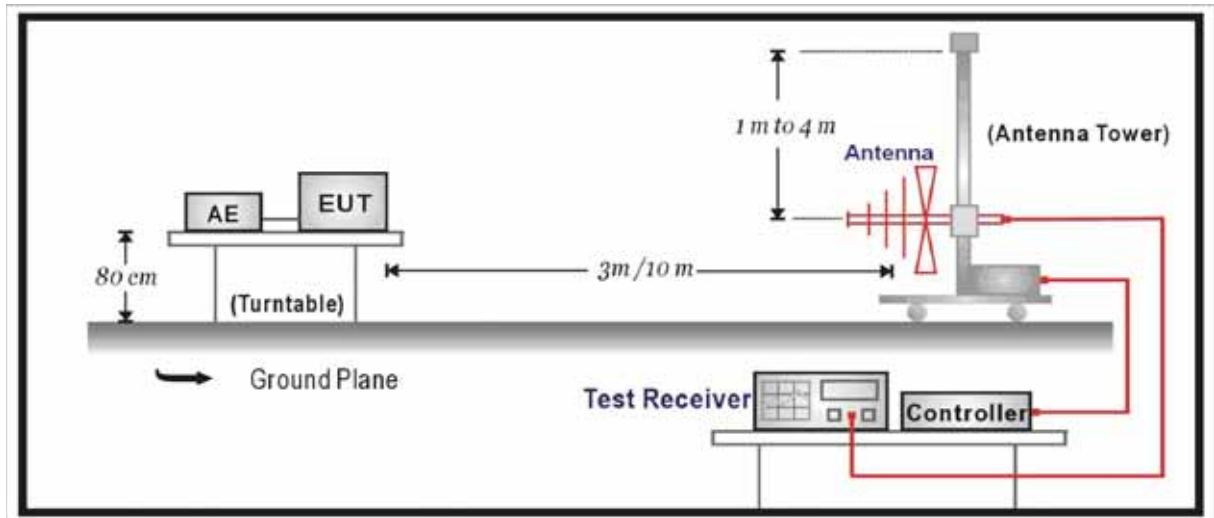
4. Radiated disturbance

4.1. Test Specification

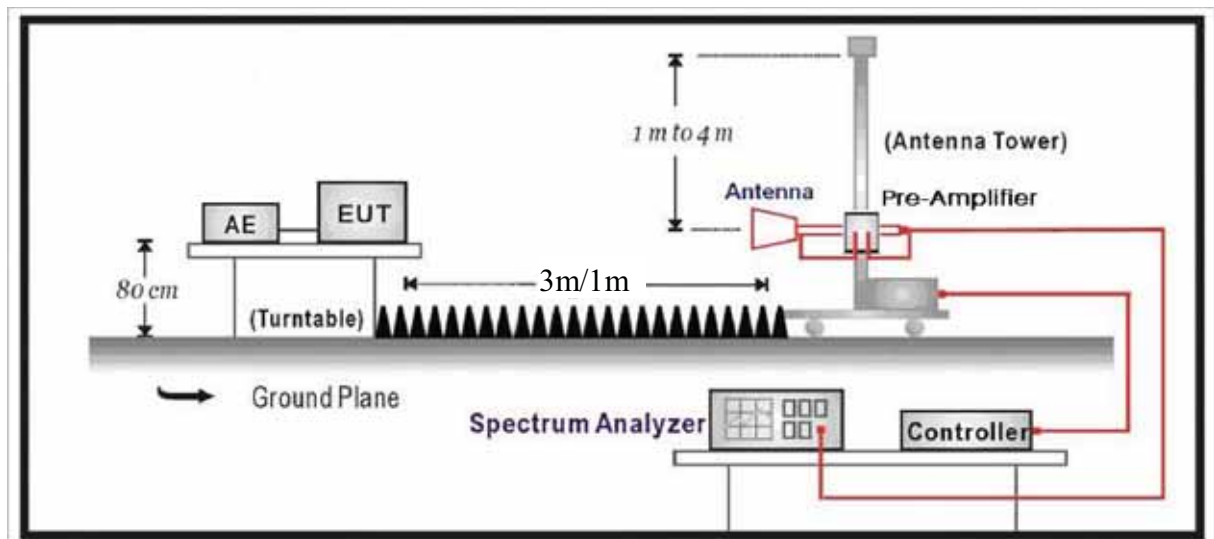
According to Standard: FCC Part 15.109 Class A, ANSI C63.4

4.2. Test Setup

Below 1GHz Test Setup



Above 1GHz Test Setup



4.3. Limit

| Limits for Radiated disturbance of class A ITE at a measuring distance of 10m | |
|---|-------------------------------|
| Frequency of Emission (MHz) | Field Strength dB(μ V/m) |
| 30 to 88 | 39 |
| 88 to 216 | 43.5 |
| 216 to 960 | 46.4 |
| Above 960 | 49.5 |

NOTE: The lower limit shall apply at the transition frequency.

| Limits for Radiated disturbance of class A ITE at a measuring distance of 3m | |
|--|-------------------------------|
| Frequency of Emission (MHz) | Field Strength dB(μ V/m) |
| 1000 to 18000 | 60 |

NOTE: The lower limit shall apply at the transition frequency.

| Limits for Radiated disturbance of class A ITE at a measuring distance of 1m | |
|--|-------------------------------|
| Frequency of Emission (MHz) | Field Strength dB(μ V/m) |
| 18000 to 40000 | 69.5 |

NOTE: The lower limit shall apply at the transition frequency.

| Limits for Radiated disturbance of class B ITE at a measuring distance of 3m | |
|--|-------------------------------|
| Frequency of Emission (MHz) | Field Strength dB(μ V/m) |
| 30 to 88 | 40 |
| 88 to 216 | 43.5 |
| 216 to 960 | 46 |
| 960 to 18000 | 54 |

NOTE: The lower limit shall apply at the transition frequency.

| Limits for Radiated disturbance of class B ITE at a measuring distance of 1m | |
|--|-------------------------------|
| Frequency of Emission (MHz) | Field Strength dB(μ V/m) |
| 18000-40000 | 63.5 |
| NOTE: The lower limit shall apply at the transition frequency. | |

4.4. Test Procedure

The EUT and its simulators are placed on a turntable which is 0.8 meter above ground. The turntable can rotate 360 degrees to determine the position of the maximum emission level. The antenna can move up and down between 1 meter and 4 meters to find out the maximum emission level.

Both horizontal and vertical polarization of the antenna are set on measurement. In order to find the maximum emission, all of the interface cables must be changed during radiated measurement.

The bandwidth below 1GHz setting on the receiver is 120kHz and above 1GHz is 1MHz.

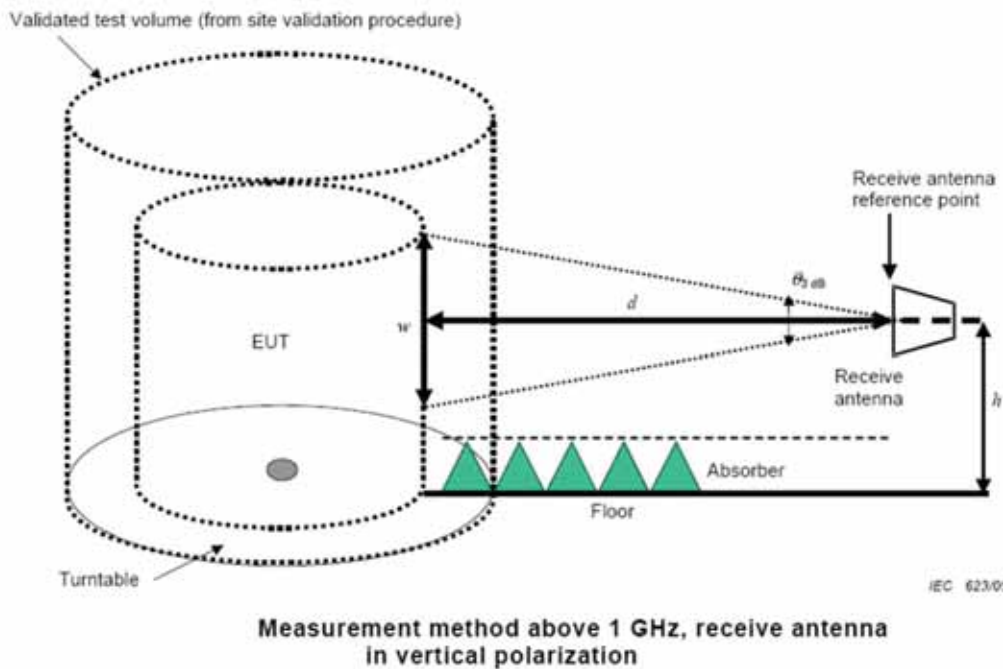
For an unintentional radiator, including a digital device, the spectrum shall be investigated from the lowest radio frequency signal generated or used in the device, without going below the lowest frequency for which a radiated emission limit is specified, up to the frequency shown in the following table:

| 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 to 108 | 1000 |
| 108 to 500 | 2000 |
| 500 to 1000 | 5000 |
| Above 1000 | 5 th harmonic of the highest frequency or 40GHz, whichever is lower |

On any frequency or frequencies below or equal to 1000MHz, the radiated limits shown are based on measuring equipment employing a quasi-peak detector function and above 1000MHz, the radiated limits shown are based measuring equipment employing an average detector function.

When average radiated emission measurement are included emission measurement Above 1000MHz, there also is a limit on the radio frequency emissions, as measured using instrumentation with a peak detector function, corresponding to 20dB above the maximum permitted average limit.

The radiated field measurement method above 1 GHz is based on measurement of the maximum electric field emitted from the EUT as shown below



- **Definitions referring to Figure**

Validated test volume: The volume validated during the site validation procedure (see 8.3.3 of CISPR 16-1-4). Typically, this is the largest diameter EUT that can be used in the test facility.

EUT: The smallest diameter cylinder that will fully encompass all portions of the actual EUT, including cable racks and a minimum length of 30 cm of cables. The EUT that is located within this cylinder must be capable of rotating about its centre (typically by a remotely controlled turntable). The EUT must be located within the validated test volume. A maximum of 30 cm of ω (see definition of ω below) may be below the height of absorbers on the floor only when the EUT is floor standing and cannot be raised above the height of the absorbers.

$\theta_{3\text{ dB}}$: The minimum 3 dB beamwidth of the receive antenna at each frequency of interest. $\theta_{3\text{ dB}}$ is the minimum of both the E-plane and H-plane values at each frequency. $\theta_{3\text{ dB}}$ may be obtained from manufacturer provided data for the receive antenna.

d: The measurement distance (in meters). This is measured as the horizontal distance between the periphery of the EUT and the reference point of the receive antenna.

ω : The dimension of the line tangent to the EUT formed by $\theta_{3\text{ dB}}$ at the measurement distance d. Equation (10) shall be used to calculate ω for each actual antenna and measurement distance used. The values of ω shall be included in the test report. This calculation may be based on the manufacturer-provided receive-antenna beamwidth specifications:

$$\omega = 2 \times d \times \tan(0,5 \times \theta_{3\text{ dB}})$$

DRG Horn Antenna (M/N: 3117) test dimension of ω

| Frequency GHz | θ 3 dB (min) ° | ω m |
|---------------|-----------------------|------------|
| 1 | 90 | 6.00 |
| 2 | 60 | 3.46 |
| 3 | 75 | 4.60 |
| 4 | 60 | 3.46 |
| 5 | 60 | 3.46 |
| 6 | 50 | 2.80 |
| 7 | 45 | 2.49 |
| 8 | 40 | 2.18 |
| 9 | 35 | 1.89 |
| 10 | 30 | 1.61 |
| 11 | 35 | 1.89 |
| 12 | 40 | 2.18 |
| 13 | 35 | 1.89 |
| 14 | 35 | 1.89 |
| 15 | 35 | 1.89 |
| 16 | 35 | 1.89 |
| 17 | 30 | 1.61 |
| 18 | 20 | 1.06 |

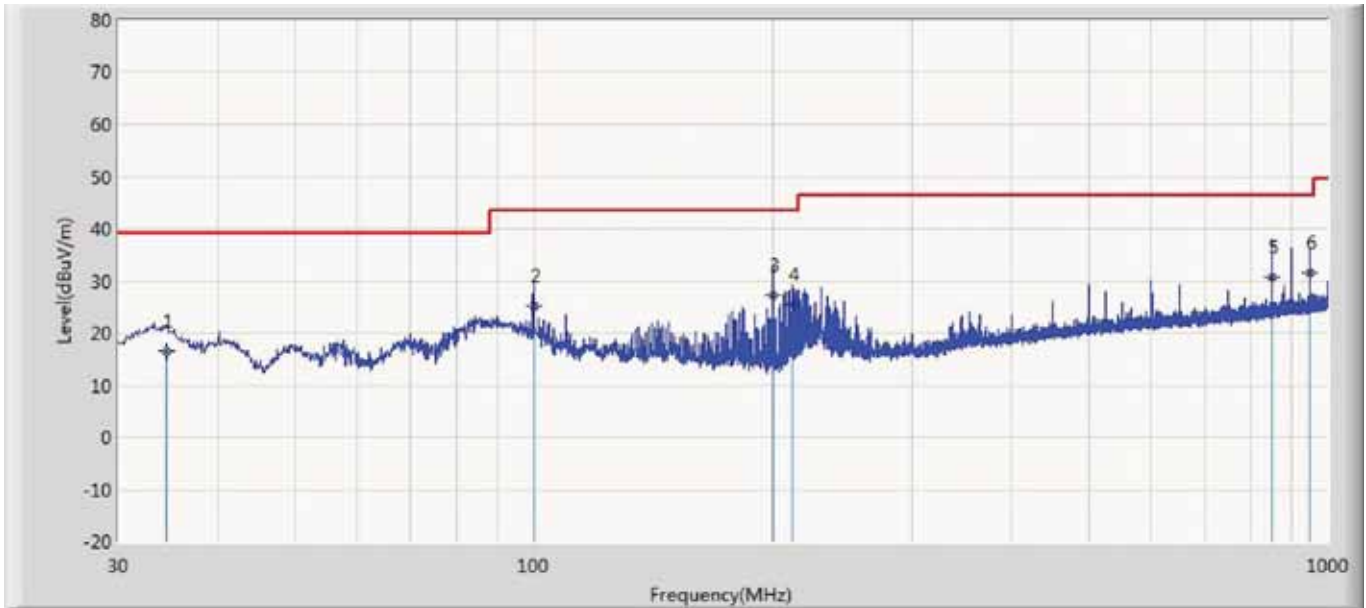
Note: The antenna's moving up and down is determined by ω value for above 1GHz, to ensure that the acceptable range of the testing antenna can cover the whole range of EUT.

4.5. Deviation from Test Standard

No deviation.

4.6. Test Result

| | |
|--------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2931(30-1000MHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 with core | |

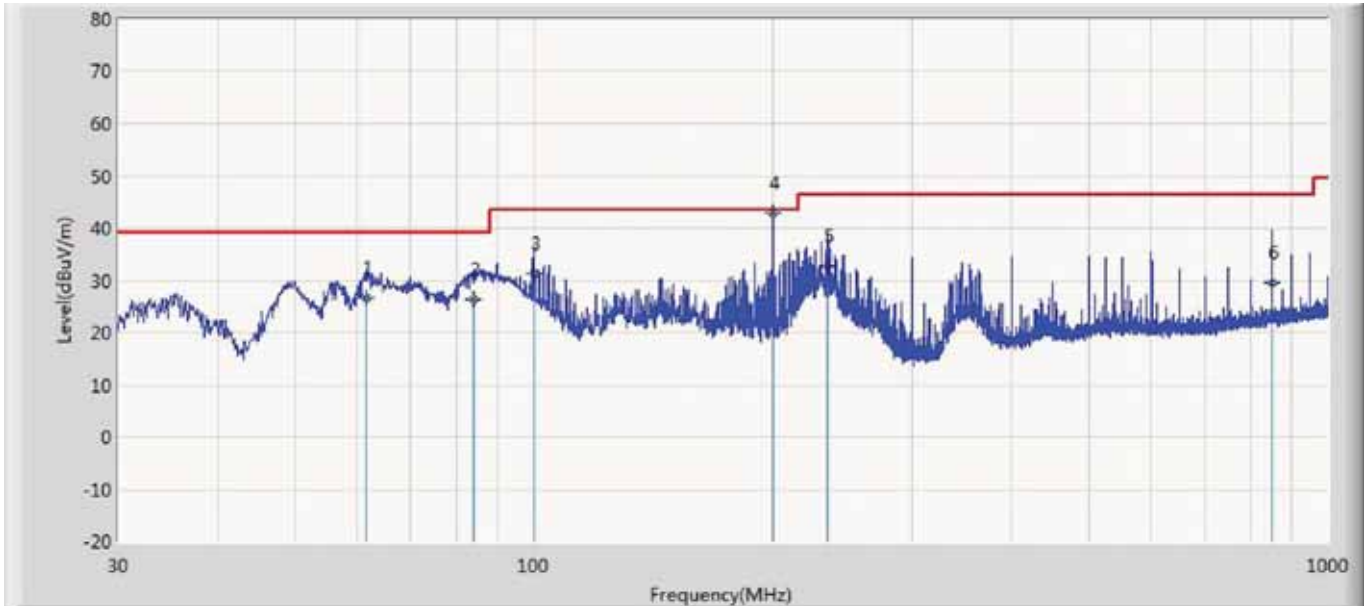


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 34.486 | 16.473 | 22.165 | -22.527 | 39.000 | 15.552 | 1.037 | 22.281 | 100 | 165 | QP |
| 2 | | 99.961 | 25.189 | 35.156 | -18.311 | 43.500 | 10.485 | 1.855 | 22.306 | 100 | 52 | QP |
| 3 | | 199.992 | 27.198 | 37.666 | -16.302 | 43.500 | 9.045 | 2.737 | 22.251 | 200 | 192 | QP |
| 4 | | 211.511 | 25.536 | 35.561 | -17.964 | 43.500 | 9.364 | 2.828 | 22.217 | 200 | 116 | QP |
| 5 | | 850.014 | 30.607 | 24.611 | -15.793 | 46.400 | 20.374 | 6.486 | 20.864 | 100 | 261 | QP |
| 6 | * | 950.045 | 31.701 | 24.611 | -14.699 | 46.400 | 21.057 | 6.957 | 20.924 | 200 | 162 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2933(30-1000MHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 with core | |

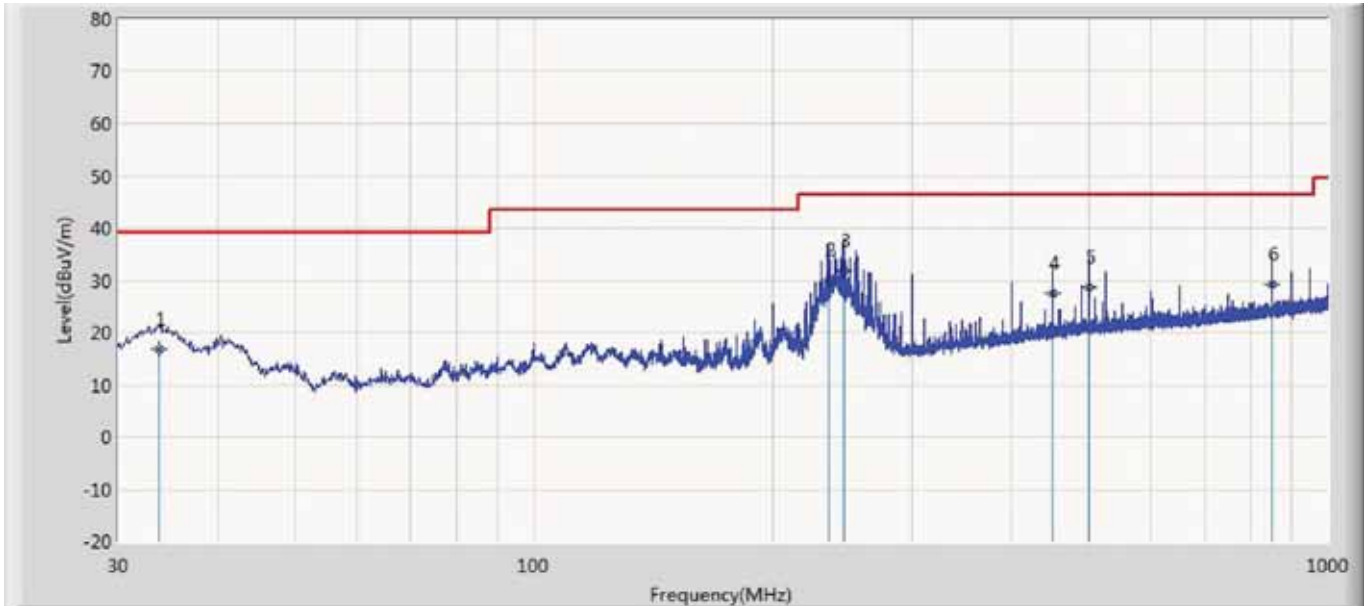


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 61.646 | 26.665 | 43.106 | -12.335 | 39.000 | 5.344 | 1.587 | 23.372 | 100 | 162 | QP |
| 2 | | 84.099 | 26.369 | 40.155 | -12.631 | 39.000 | 7.702 | 1.876 | 23.364 | 200 | 169 | QP |
| 3 | | 99.961 | 31.258 | 42.161 | -12.242 | 43.500 | 10.408 | 2.066 | 23.377 | 100 | 41 | QP |
| 4 | * | 199.999 | 43.036 | 53.500 | -0.464 | 43.500 | 9.301 | 3.047 | 22.812 | 100 | 7 | QP |
| 5 | | 234.428 | 32.807 | 42.611 | -13.593 | 46.400 | 10.201 | 3.337 | 23.342 | 200 | 192 | QP |
| 6 | | 850.014 | 29.574 | 24.621 | -16.826 | 46.400 | 20.344 | 7.195 | 22.586 | 200 | 162 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2931(30-1000MHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 with core | |

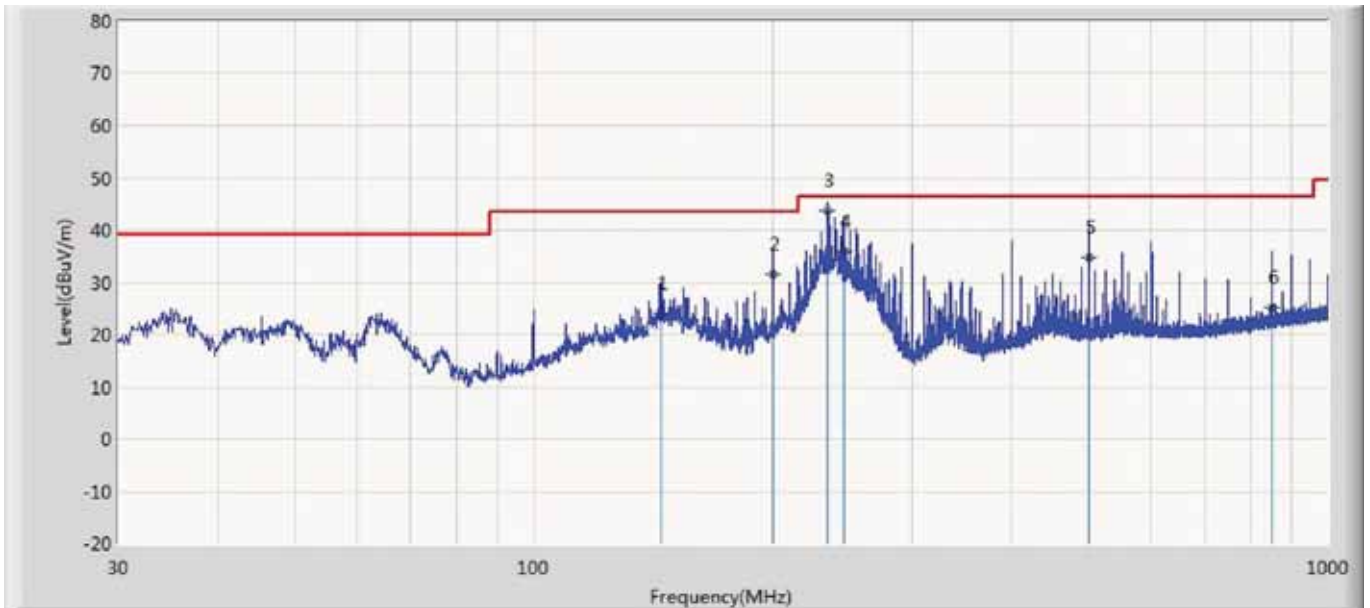


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 33.759 | 16.853 | 22.156 | -22.147 | 39.000 | 15.933 | 1.023 | 22.259 | 100 | 162 | QP |
| 2 | | 235.519 | 30.247 | 39.122 | -16.153 | 46.400 | 10.318 | 3.008 | 22.201 | 200 | 142 | QP |
| 3 | * | 245.583 | 31.842 | 40.152 | -14.558 | 46.400 | 10.762 | 3.080 | 22.153 | 100 | 145 | QP |
| 4 | | 450.010 | 27.495 | 28.162 | -18.905 | 46.400 | 16.683 | 4.399 | 21.749 | 100 | 291 | QP |
| 5 | | 499.965 | 28.732 | 28.155 | -17.668 | 46.400 | 17.562 | 4.685 | 21.670 | 100 | 162 | QP |
| 6 | | 850.014 | 29.162 | 23.166 | -17.238 | 46.400 | 20.374 | 6.486 | 20.864 | 200 | 308 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2933(30-1000MHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 with core | |

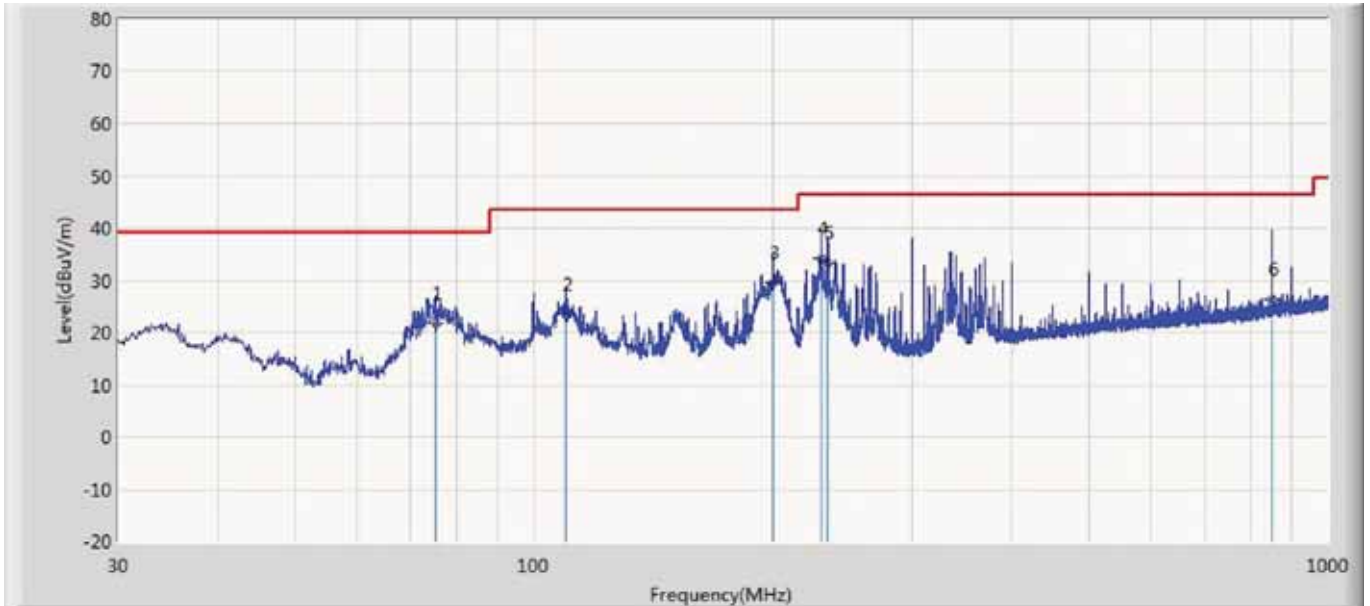


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 144.460 | 24.111 | 35.155 | -19.389 | 43.500 | 9.812 | 2.532 | 23.388 | 200 | 112 | QP |
| 2 | | 199.992 | 31.582 | 43.232 | -11.918 | 43.500 | 8.674 | 3.046 | 23.371 | 200 | 126 | QP |
| 3 | * | 234.443 | 43.826 | 52.700 | -2.574 | 46.400 | 10.575 | 3.337 | 22.786 | 100 | 345 | QP |
| 4 | | 245.583 | 35.912 | 45.161 | -10.488 | 46.400 | 10.653 | 3.425 | 23.327 | 100 | 261 | QP |
| 5 | | 499.965 | 34.682 | 35.162 | -11.718 | 46.400 | 17.316 | 5.204 | 23.000 | 100 | 216 | QP |
| 6 | | 850.014 | 25.108 | 20.155 | -21.292 | 46.400 | 20.344 | 7.195 | 22.586 | 100 | 41 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2931(30-1000MHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 without core | |

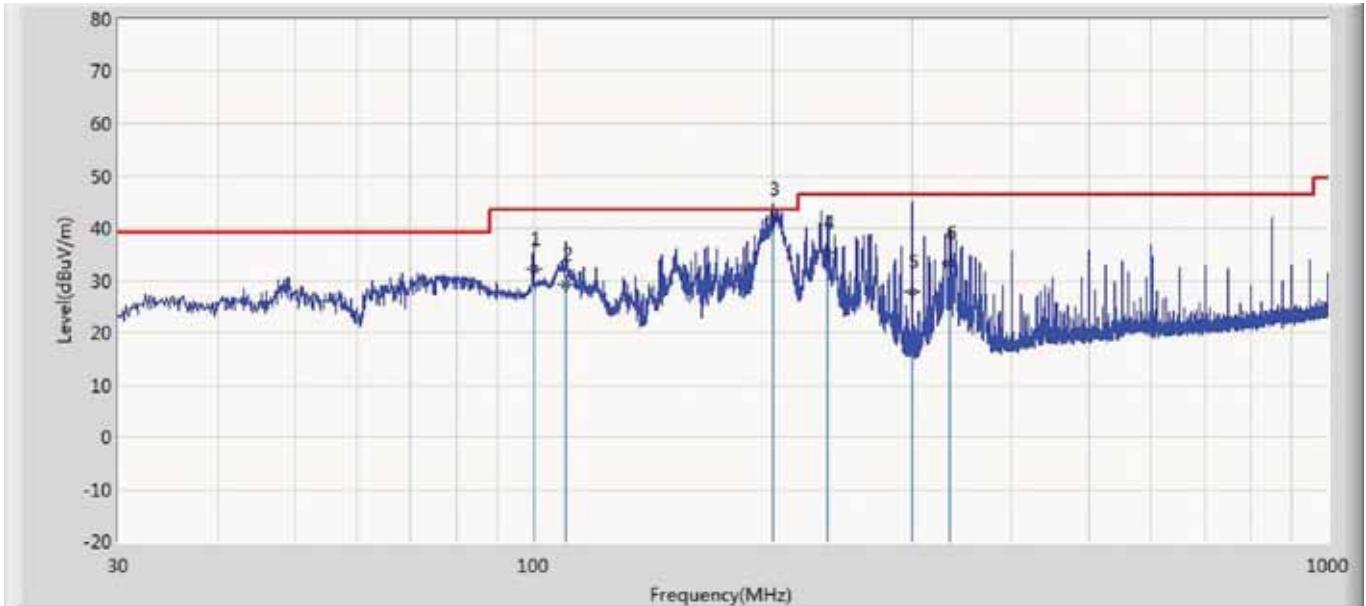


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 75.226 | 21.706 | 36.156 | -17.294 | 39.000 | 6.281 | 1.580 | 22.311 | 100 | 165 | QP |
| 2 | | 110.025 | 23.401 | 33.165 | -20.099 | 43.500 | 10.592 | 1.954 | 22.309 | 100 | 132 | QP |
| 3 | | 199.992 | 29.689 | 40.157 | -13.811 | 43.500 | 9.045 | 2.737 | 22.251 | 200 | 41 | QP |
| 4 | * | 229.941 | 34.152 | 43.165 | -12.248 | 46.400 | 10.223 | 2.967 | 22.203 | 100 | 145 | QP |
| 5 | | 234.428 | 33.302 | 42.166 | -13.098 | 46.400 | 10.299 | 3.003 | 22.166 | 200 | 281 | QP |
| 6 | | 850.014 | 26.451 | 20.455 | -19.949 | 46.400 | 20.374 | 6.486 | 20.864 | 100 | 162 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2933(30-1000MHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 without core | |

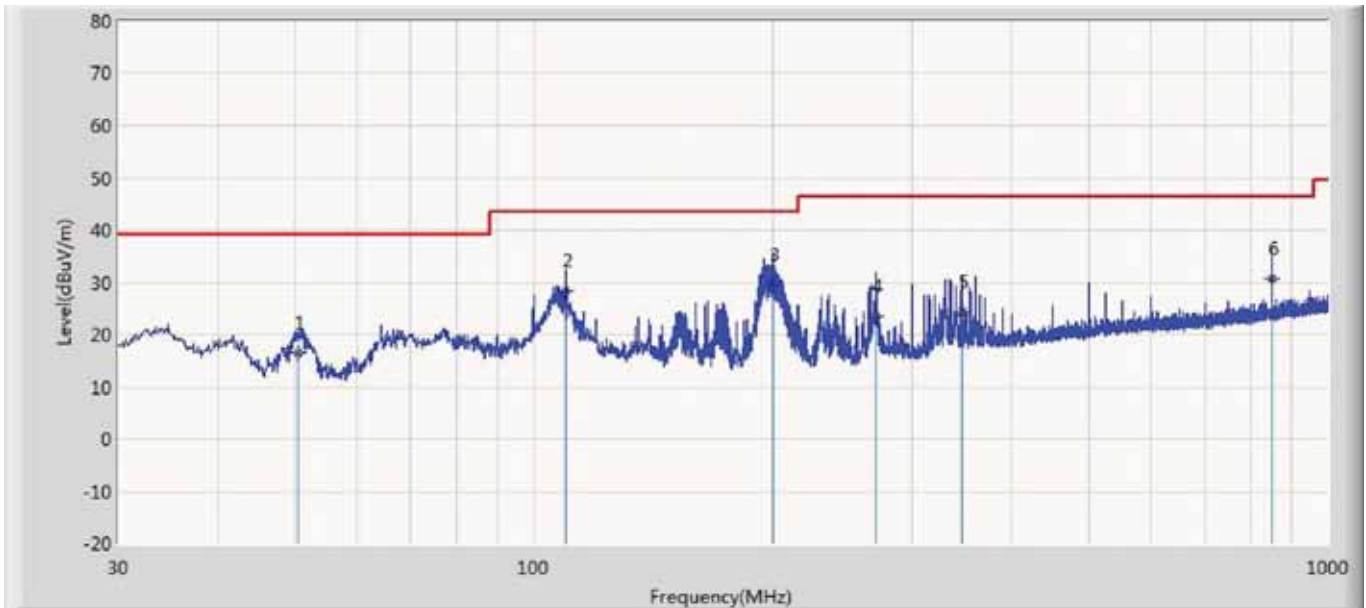


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 99.961 | 32.222 | 43.125 | -11.278 | 43.500 | 10.408 | 2.066 | 23.377 | 100 | 161 | QP |
| 2 | | 110.025 | 29.211 | 40.156 | -14.289 | 43.500 | 10.281 | 2.182 | 23.408 | 100 | 162 | QP |
| 3 | * | 199.998 | 41.650 | 53.300 | -1.850 | 43.500 | 8.675 | 3.047 | 23.371 | 100 | 157 | QP |
| 4 | | 234.428 | 35.351 | 45.155 | -11.049 | 46.400 | 10.201 | 3.337 | 23.342 | 200 | 194 | QP |
| 5 | | 300.024 | 27.913 | 34.165 | -18.487 | 46.400 | 13.186 | 3.842 | 23.280 | 100 | 165 | QP |
| 6 | | 334.459 | 33.193 | 38.155 | -13.207 | 46.400 | 14.153 | 4.100 | 23.215 | 200 | 46 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2931(30-1000MHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 without core | |

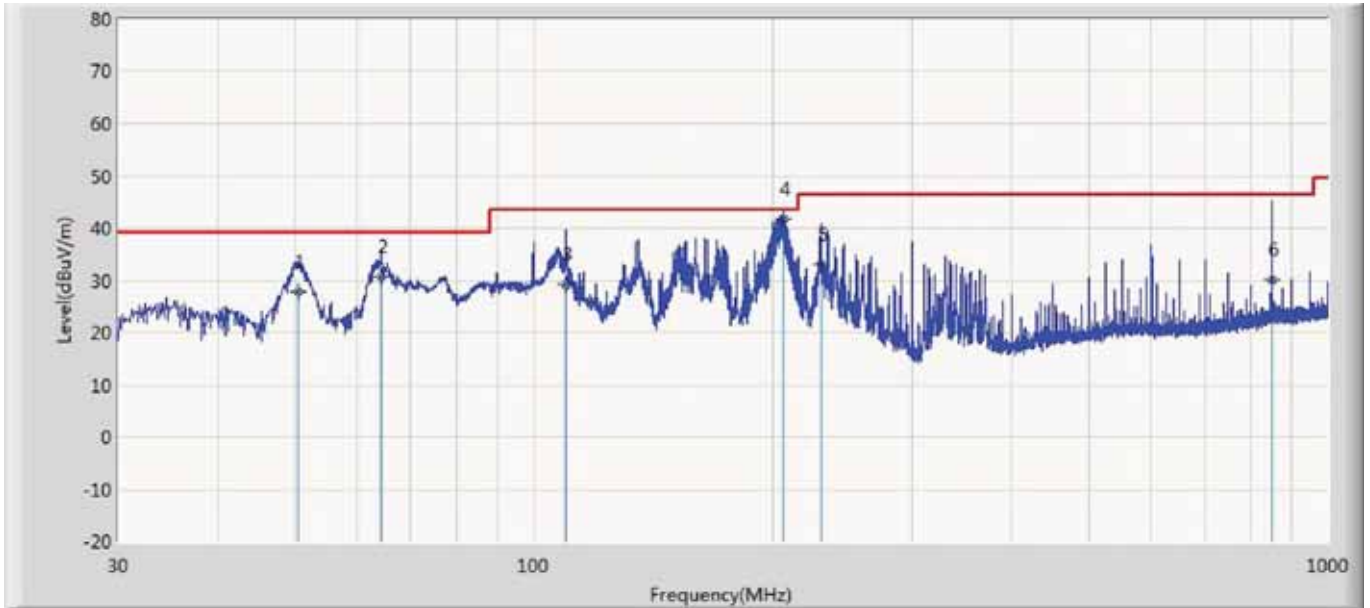


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 50.612 | 16.619 | 30.152 | -22.381 | 39.000 | 7.470 | 1.278 | 22.281 | 200 | 196 | QP |
| 2 | | 109.904 | 28.388 | 38.155 | -15.112 | 43.500 | 10.593 | 1.953 | 22.313 | 200 | 162 | QP |
| 3 | * | 199.992 | 29.688 | 40.156 | -13.812 | 43.500 | 9.045 | 2.737 | 22.251 | 200 | 315 | QP |
| 4 | | 269.954 | 23.558 | 30.511 | -22.842 | 46.400 | 11.948 | 3.256 | 22.157 | 200 | 296 | QP |
| 5 | | 345.492 | 24.360 | 28.155 | -22.040 | 46.400 | 14.440 | 3.760 | 21.995 | 100 | 146 | QP |
| 6 | | 850.014 | 30.646 | 24.650 | -15.754 | 46.400 | 20.374 | 6.486 | 20.864 | 100 | 128 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|--------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC1 | Time: 2019/01/21 |
| Limit: FCC_Part15.109_RE(10m)_ClassA | Margin: 0 |
| Probe: CBL6112B_2933(30-1000MHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 without core | |

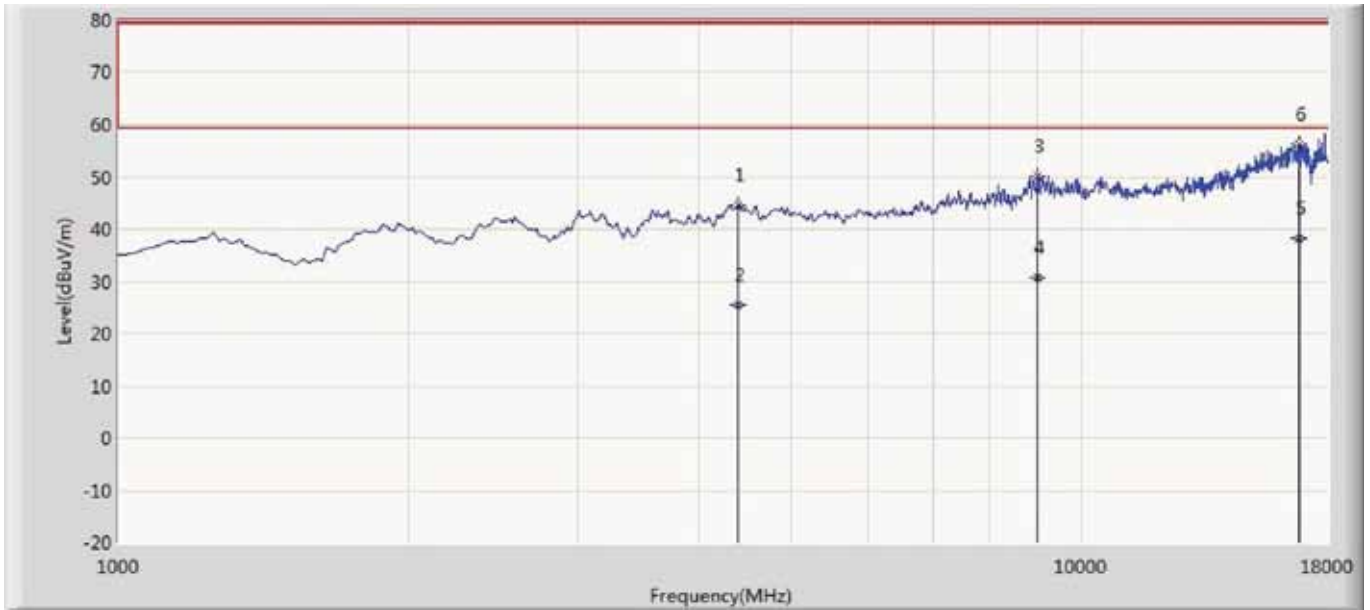


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 50.612 | 27.807 | 42.150 | -11.193 | 39.000 | 7.579 | 1.424 | 23.346 | 100 | 162 | QP |
| 2 | | 64.435 | 30.838 | 47.155 | -8.162 | 39.000 | 5.402 | 1.628 | 23.347 | 100 | 163 | QP |
| 3 | | 110.025 | 29.211 | 40.156 | -14.289 | 43.500 | 10.281 | 2.182 | 23.408 | 200 | 356 | QP |
| 4 | * | 205.966 | 41.803 | 52.000 | -1.697 | 43.500 | 9.521 | 3.095 | 22.813 | 100 | 293 | QP |
| 5 | | 229.941 | 33.032 | 43.025 | -13.368 | 46.400 | 10.074 | 3.299 | 23.366 | 200 | 319 | QP |
| 6 | | 850.014 | 30.119 | 25.166 | -16.281 | 46.400 | 20.344 | 7.195 | 22.586 | 100 | 162 | QP |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 without core | |

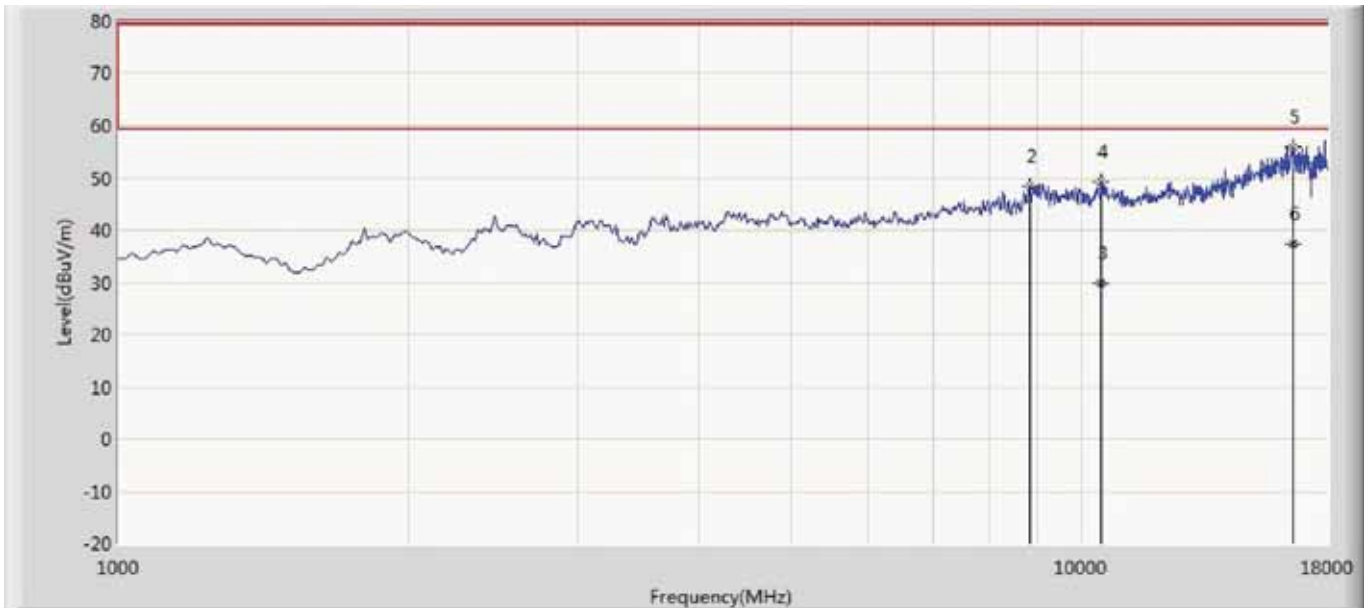


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 4400.000 | 44.556 | 43.669 | -34.944 | 79.500 | 33.800 | 7.787 | 40.700 | 100 | 300 | PK |
| 2 | | 4401.260 | 25.377 | 24.513 | -34.123 | 59.500 | 33.801 | 7.780 | 40.717 | 100 | 300 | AV |
| 3 | | 9007.000 | 50.085 | 41.478 | -29.415 | 79.500 | 36.304 | 12.286 | 39.983 | 100 | 120 | PK |
| 4 | | 9007.210 | 30.835 | 22.229 | -28.665 | 59.500 | 36.304 | 12.284 | 39.981 | 100 | 120 | AV |
| 5 | * | 16809.150 | 38.274 | 18.541 | -21.226 | 59.500 | 41.362 | 13.472 | 35.102 | 100 | 320 | AV |
| 6 | | 16810.000 | 56.244 | 36.402 | -23.256 | 79.500 | 41.362 | 13.510 | 35.030 | 100 | 320 | PK |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 1 without core | |

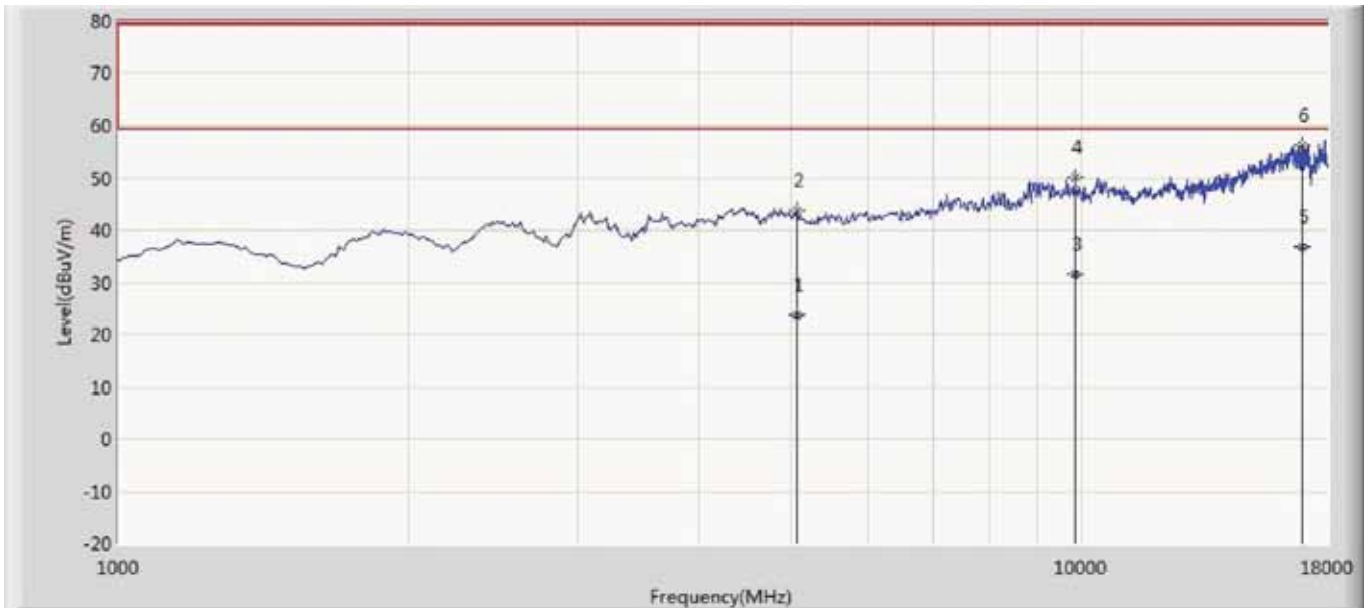


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 821.290 | 10.338 | 20.256 | NaN | NaN | 28.700 | 2.743 | 41.361 | 100 | 150 | AV |
| 2 | | 8820.000 | 48.465 | 40.260 | -31.035 | 79.500 | 36.156 | 11.668 | 39.619 | 100 | 150 | PK |
| 3 | | 10485.540 | 29.909 | 19.264 | -29.591 | 59.500 | 37.686 | 11.481 | 38.521 | 100 | 203 | AV |
| 4 | | 10486.000 | 49.286 | 38.605 | -30.214 | 79.500 | 37.686 | 11.483 | 38.488 | 100 | 203 | PK |
| 5 | | 16538.000 | 55.867 | 36.897 | -23.633 | 79.500 | 41.308 | 14.015 | 36.353 | 100 | 205 | PK |
| 6 | * | 16539.210 | 37.466 | 18.664 | -22.034 | 59.500 | 41.308 | 13.933 | 36.439 | 100 | 205 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 without core | |

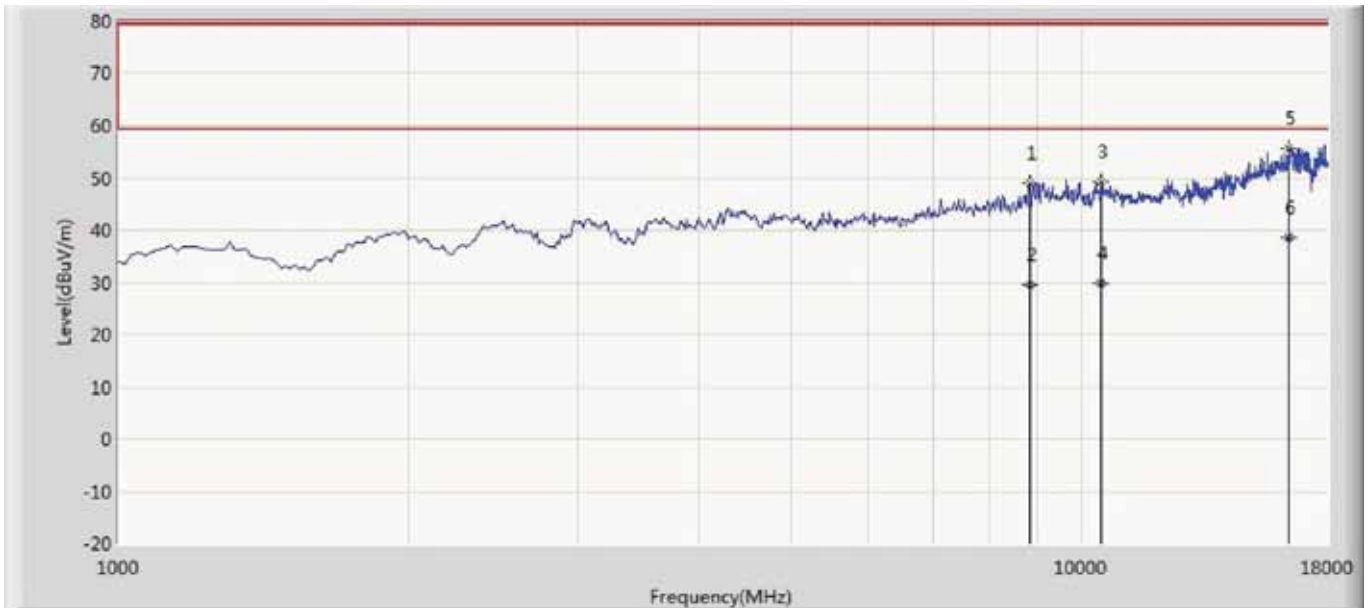


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 5062.130 | 23.811 | 23.155 | -35.689 | 59.500 | 34.062 | 7.185 | 40.591 | 100 | 200 | AV |
| 2 | | 5063.000 | 43.789 | 43.121 | -35.711 | 79.500 | 34.063 | 7.201 | 40.596 | 100 | 200 | PK |
| 3 | | 9839.130 | 31.516 | 22.394 | -27.984 | 59.500 | 37.007 | 11.923 | 39.808 | 100 | 160 | AV |
| 4 | | 9840.000 | 50.288 | 41.105 | -29.212 | 79.500 | 37.008 | 11.940 | 39.765 | 100 | 160 | PK |
| 5 | * | 16911.136 | 36.779 | 17.216 | -22.721 | 59.500 | 41.382 | 13.308 | 35.127 | 100 | 180 | AV |
| 6 | | 16912.000 | 56.172 | 36.460 | -23.328 | 79.500 | 41.382 | 13.359 | 35.029 | 100 | 180 | PK |

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 2 without core | |

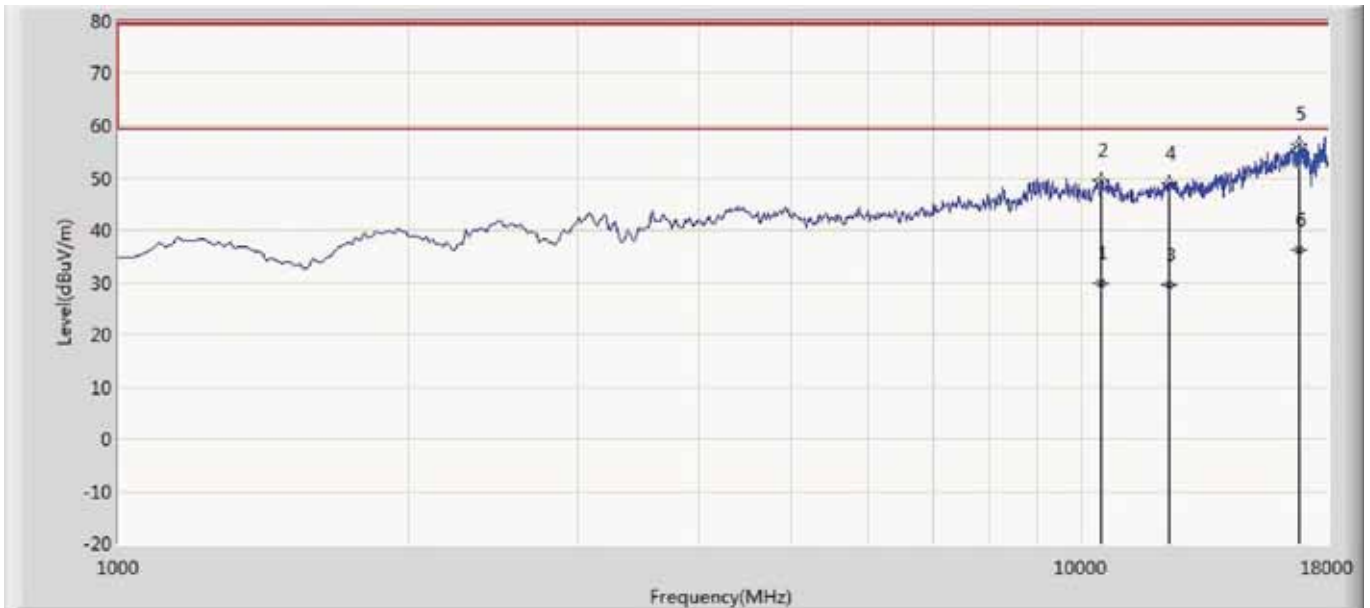


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 8820.000 | 49.061 | 40.856 | -30.439 | 79.500 | 36.156 | 11.668 | 39.619 | 100 | 140 | PK |
| 2 | | 8821.610 | 29.435 | 21.316 | -30.065 | 59.500 | 36.157 | 11.510 | 39.548 | 100 | 140 | AV |
| 3 | | 10486.000 | 49.326 | 38.645 | -30.174 | 79.500 | 37.686 | 11.483 | 38.488 | 100 | 230 | PK |
| 4 | | 10486.310 | 29.826 | 19.164 | -29.674 | 59.500 | 37.686 | 11.467 | 38.491 | 100 | 230 | AV |
| 5 | | 16402.000 | 55.663 | 36.336 | -23.837 | 79.500 | 41.202 | 14.016 | 35.891 | 100 | 140 | PK |
| 6 | * | 16402.650 | 38.440 | 19.136 | -21.060 | 59.500 | 41.203 | 14.032 | 35.931 | 100 | 140 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 without core | |

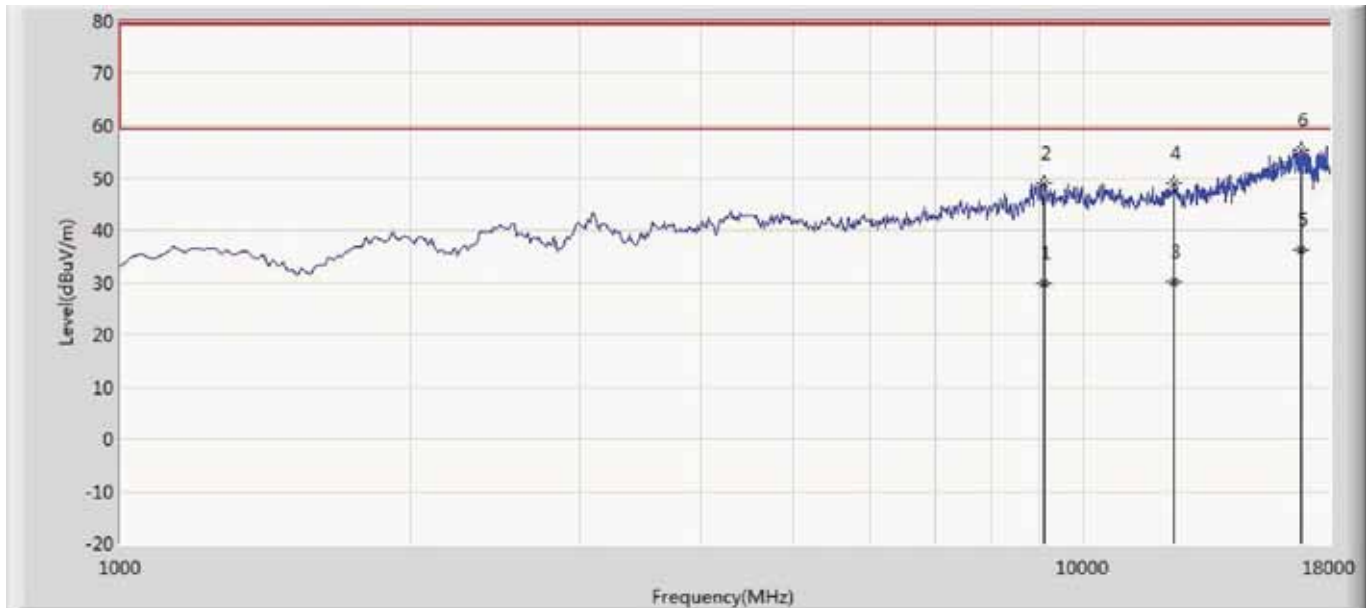


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 10485.460 | 29.800 | 19.161 | -29.700 | 59.500 | 37.685 | 11.481 | 38.527 | 100 | 160 | AV |
| 2 | | 10486.000 | 49.563 | 38.882 | -29.937 | 79.500 | 37.686 | 11.483 | 38.488 | 100 | 160 | PK |
| 3 | | 12338.650 | 29.608 | 18.351 | -29.892 | 59.500 | 39.303 | 10.668 | 38.714 | 100 | 120 | AV |
| 4 | | 12339.000 | 49.117 | 37.845 | -30.383 | 79.500 | 39.303 | 10.678 | 38.709 | 100 | 120 | PK |
| 5 | * | 16827.000 | 56.546 | 36.377 | -22.954 | 79.500 | 41.365 | 14.959 | 36.155 | 100 | 204 | PK |
| 6 | | 16828.360 | 36.236 | 16.189 | -23.264 | 59.500 | 41.365 | 14.869 | 36.187 | 100 | 204 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 3 without core | |

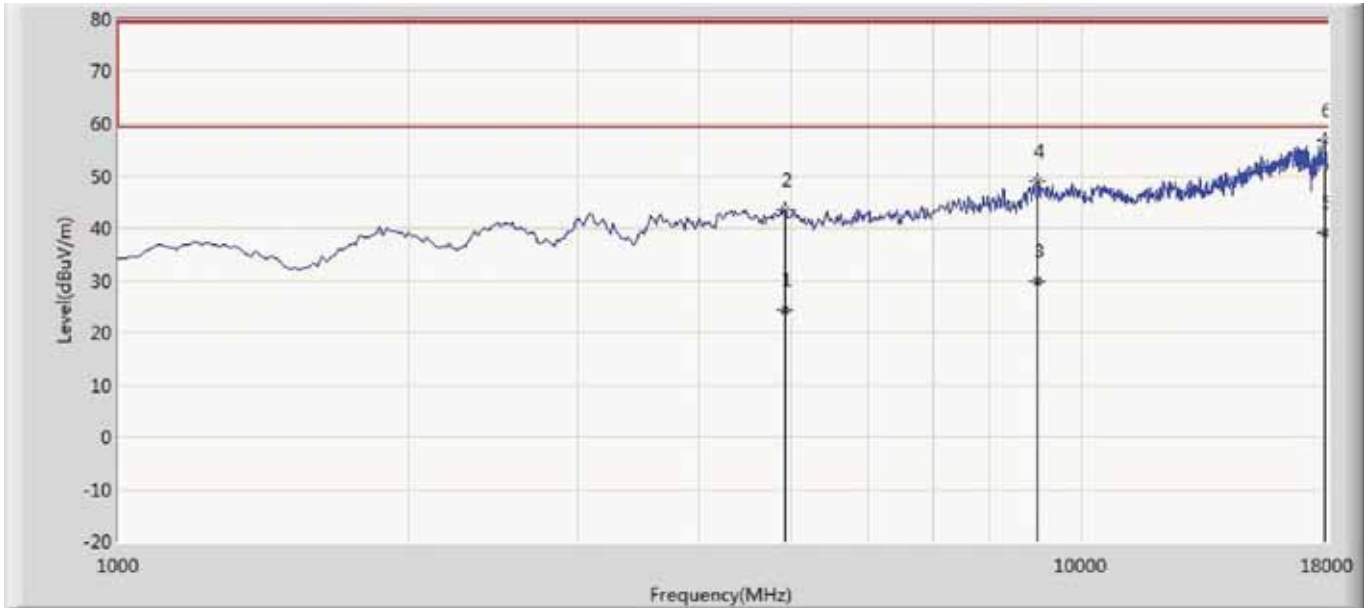


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 9108.150 | 29.947 | 21.254 | -29.553 | 59.500 | 36.364 | 12.176 | 39.848 | 100 | 181 | AV |
| 2 | | 9109.000 | 48.885 | 40.174 | -30.615 | 79.500 | 36.365 | 12.191 | 39.845 | 100 | 181 | PK |
| 3 | | 12423.540 | 30.235 | 18.583 | -29.265 | 59.500 | 39.354 | 11.176 | 38.877 | 100 | 160 | AV |
| 4 | | 12424.000 | 48.846 | 37.192 | -30.654 | 79.500 | 39.354 | 11.182 | 38.882 | 100 | 160 | PK |
| 5 | * | 16809.310 | 36.264 | 16.511 | -23.236 | 59.500 | 41.362 | 13.480 | 35.088 | 100 | 140 | AV |
| 6 | | 16810.000 | 55.436 | 35.594 | -24.064 | 79.500 | 41.362 | 13.510 | 35.030 | 100 | 140 | PK |

Note:

- " * ", means this data is the worst emission level.
- Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|----------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Horizontal |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 without core | |

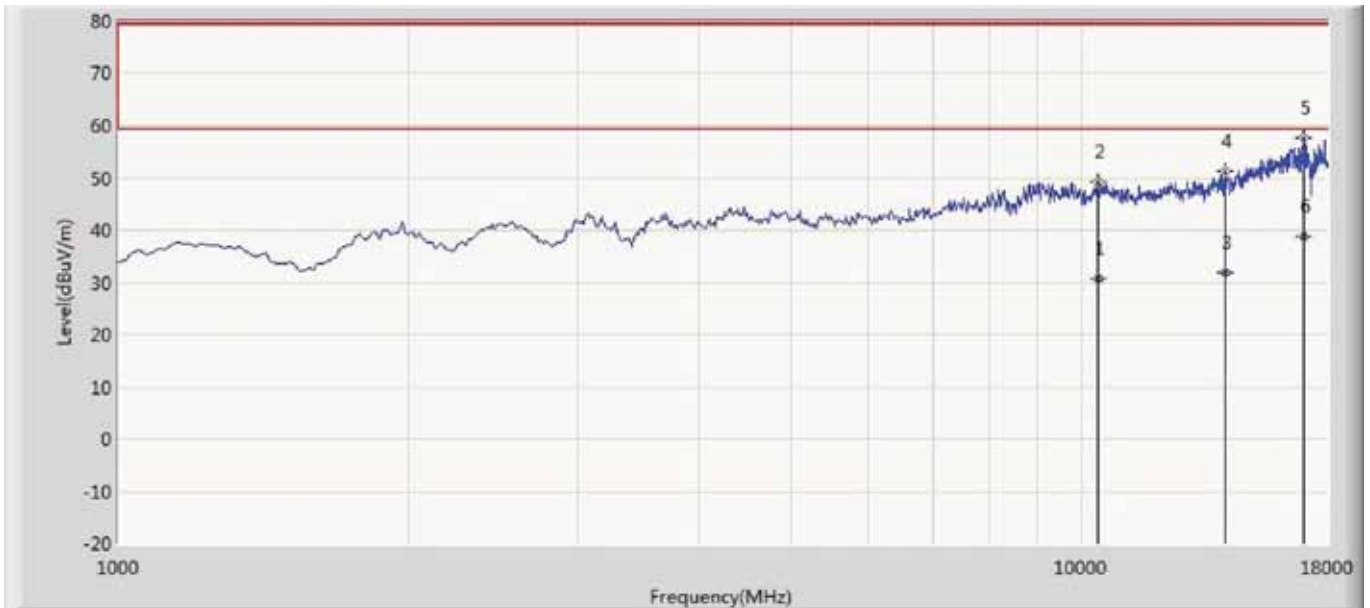


| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 4926.650 | 24.395 | 24.132 | -35.105 | 59.500 | 33.985 | 6.832 | 40.553 | 100 | 150 | AV |
| 2 | | 4927.000 | 43.393 | 43.126 | -36.107 | 79.500 | 33.985 | 6.830 | 40.548 | 100 | 150 | PK |
| 3 | | 9006.540 | 29.783 | 21.216 | -29.717 | 59.500 | 36.304 | 12.262 | 39.999 | 100 | 200 | AV |
| 4 | | 9007.000 | 48.887 | 40.280 | -30.613 | 79.500 | 36.304 | 12.286 | 39.983 | 100 | 200 | PK |
| 5 | * | 17862.340 | 39.100 | 16.165 | -20.400 | 59.500 | 41.045 | 17.670 | 35.780 | 100 | 310 | AV |
| 6 | | 17864.000 | 56.760 | 33.478 | -22.740 | 79.500 | 41.046 | 17.961 | 35.725 | 100 | 310 | PK |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

| | |
|-------------------------------------|---------------------|
| Engineer: Canon | |
| Site: AC5 | Time: 2019/03/18 |
| Limit: FCC_Part15.109_RE(3m)_ClassA | Margin: 0 |
| Probe: Horn_3117_00167055(1-18GHz) | Polarity: Vertical |
| EUT: Rangefinder | Power: AC 120V/60Hz |
| Note: Mode 4 without core | |



| No | Mark | Frequency (MHz) | Measure Level (dBuV/m) | Reading Level (dBuV) | Over Limit (dB) | Limit (dBuV/m) | Probe (dB/m) | Cable (dB) | Amp (dB) | Ant Pos (cm) | Table Pos (deg) | Type |
|----|------|-----------------|------------------------|----------------------|-----------------|----------------|--------------|------------|----------|--------------|-----------------|------|
| 1 | | 10383.310 | 30.864 | 21.135 | -28.636 | 59.500 | 37.583 | 11.058 | 38.913 | 100 | 120 | AV |
| 2 | | 10384.000 | 49.192 | 39.423 | -30.308 | 79.500 | 37.584 | 11.051 | 38.866 | 100 | 120 | PK |
| 3 | | 14072.350 | 31.956 | 16.135 | -27.544 | 59.500 | 39.172 | 13.824 | 37.176 | 100 | 162 | AV |
| 4 | | 14073.000 | 51.448 | 35.534 | -28.052 | 79.500 | 39.173 | 13.845 | 37.104 | 100 | 162 | PK |
| 5 | | 17014.000 | 57.600 | 38.355 | -21.900 | 79.500 | 41.386 | 13.470 | 35.611 | 100 | 320 | PK |
| 6 | * | 17015.130 | 38.862 | 19.581 | -20.638 | 59.500 | 41.385 | 13.547 | 35.651 | 100 | 320 | AV |

Note:

1. " * ", means this data is the worst emission level.
2. Measurement Level = Reading Level + Factor(Probe+Cable-Amp).

4.7. Test Photograph

Test Mode: Mode 1-4

Description: Front View of Radiated disturbance Test Setup (Below 1GHz)



Test Mode: Mode 1-4

Description: Rear View of Radiated disturbance Test Setup (Below 1GHz)



Test Mode: Mode 1-4

Description: Front View of Radiated disturbance Test Setup (Above 1GHz)



Test Mode: Mode 1-4

Description: Rear View of Radiated disturbance Test Setup (Above 1GHz)



5. Attachment

EUT Photograph

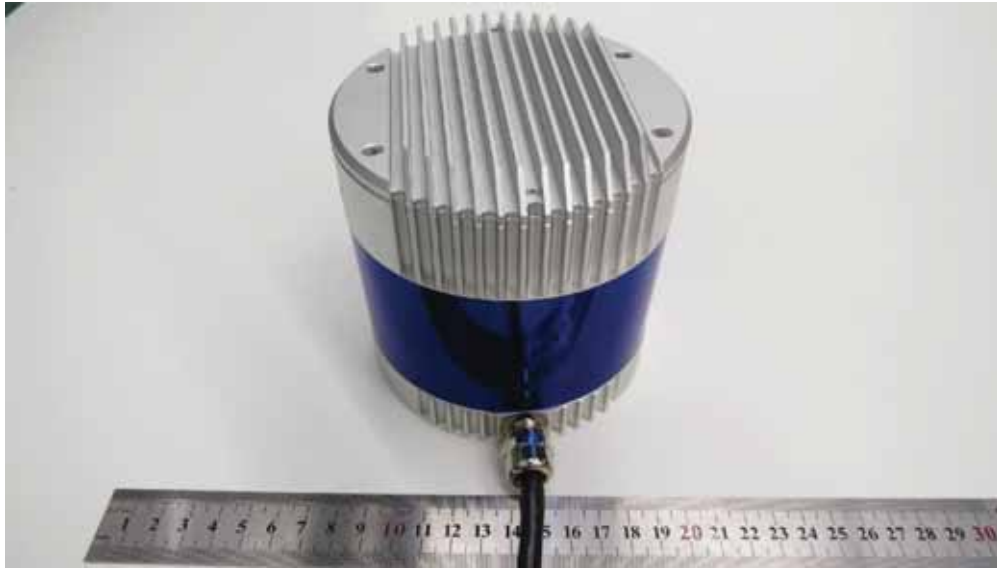
(1) EUT Photo (Pandar64)



(2) EUT Photo (Pandar64)



(3) EUT Photo (Pandar64)



(4) EUT Photo (Pandar64)



(5) EUT Photo (Pandar64)



(6) EUT Photo (Pandar64)



(7) EUT Photo (Pandar64)



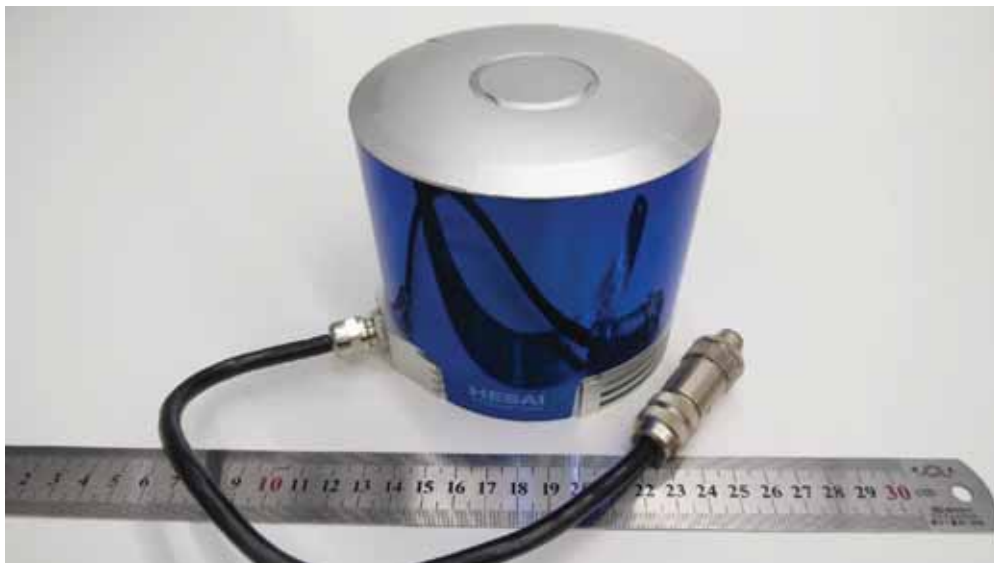
(8) EUT Photo (Pandar40 2.0)



(9) EUT Photo (Pandar40 2.0)



(10) EUT Photo (Pandar40 2.0)



(11) EUT Photo (Pandar40 2.0)



(12) EUT Photo (Pandar40 2.0)



(13) EUT Photo (Pandar20A, Pandar20B)



(14) EUT Photo (Pandar20A, Pandar20B)



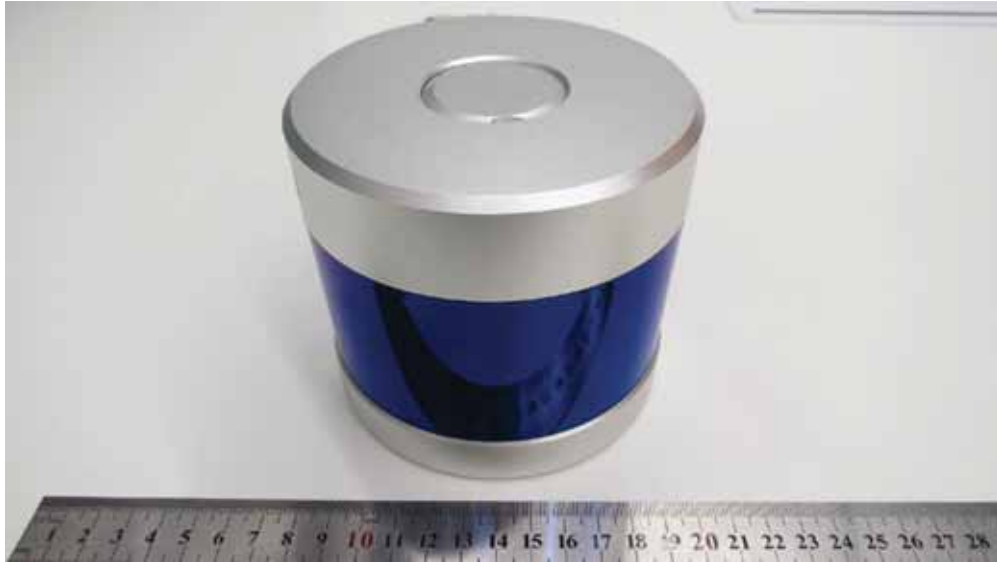
(15) EUT Photo (Pandar20A, Pandar20B)



(16) EUT Photo (Pandar20A, Pandar20B)



(17) EUT Photo (Pandar20A, Pandar20B)



(18) EUT Photo (Pandar20A, Pandar20B)



(19) EUT Photo



(20) EUT Photo



The End