

RADIO TEST REPORT FCC 47 CFR PART 15 SUBPART C **INDUSTRY CANADA RSS-210**

Test Standard FCC Part 15.239 and RSS-210 Issue 9

FCC ID A4C-1000BA

ISED No. 10199A-1000BA

Trade name Rand McNally

OverDryve™ 7c Product name

Model No. OD7C **Test Result Pass**

The test Result was tested by Compliance Certification Services Inc. The test data, data evaluation, test procedures, and equipment configurations shown in this report were given in ANSI C63.10: 2013 and compliance standards.

The test results of this report relate only to the tested sample (EUT) identified in this report.

The test Report of full or partial shall not copy. Without written approval of Compliance Certification Services Inc. (Wugu Laboratory)

The sample selected for test was production product and was provided by manufacturer.





Approved by:

Reviewed by:

Sam Chuang Manager

Ed Chiang Engineer



Revision History

| Rev. | Issue Date | Revisions | Revised By |
|------|------------------|--|-------------|
| 00 | February 7, 2017 | Initial Issue | Angel Cheng |
| 01 | March 24, 2017 | Remove Remark in page 4. Revise section 1.3 Antenna Category and Antenna Type in page 5. Add test data in section 4.3.4 in page 22, 23. Add Test Setup Photos in page 33, 34. | Doris Chu |
| 02 | April 5, 2017 | Revise section 4.2.2 & 4.2.3 in page 15. Modify 20dB bandwidth and occupied bandwidth (99%) test data in page 16. Revise section 4.3.2 in page 18. | Angel Cheng |

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| ΔF | PFN | DIX 1 - PHOTOGRAPHS OF FUT | |

1. GENERAL INFORMATION

1.1 EUT INFORMATION

| Applicant | RM Acquisition, LLC 9855 Woods Drive Skokie, IL 60077 USA. |
|-----------------------|---|
| Equipment | OverDryve™ 7c |
| Model Name | OD7C |
| Model Discrepancy | N/A |
| EUT Functions | IEEE 802.11b/g/n+BT+GPS+FM |
| Received Date | Dec 28, 2016 |
| Date of Test | Jan 03, 2017 ~ March 22, 2017 |
| Output Power (dBuV/m) | Peak : 36.51 Average : 34.77 |
| Power Operation | AC 120V/60Hz Adapter(Not for sale) PoE(Not for sale) Host system DC Type: Battery Car Charger DC Power Supply External DC adapter |

1.2 EUT CHANNEL INFORMATION

| Frequency Range | 88MHz to 108MHz |
|-----------------|-----------------|
| Modulation Type | FM |

Remark:

Refer as ANSI 63.10:2013 clause 5.6.1 Table 4 and RSS-GEN Table A1 for test channels

| Number of frequencies to be tested | | | | | |
|---|---|--|--|--|--|
| Frequency range in Number of Location in frequency which device operates frequencies range of operation | | | | | |
| 1 MHz or less | 1 | Middle | | | |
| 1 MHz to 10 MHz | 2 | 1 near top and 1 near bottom | | | |
| More than 10 MHz | 3 | 1 near top, 1 near middle, and 1 near bottom | | | |

1.3 ANTENNA INFORMATION

| Antenna Category | ☐ Internal: antenna permanently attached ☐ External dedicated antennas ☐ External Unique antenna connector | | | |
|------------------|--|--|--|--|
| Antenna Type | ☐ PIFA ☐ PCB ☐ Dipole ☐ Coils | | | |



1.4 MEASUREMENT UNCERTAINTY

| PARAMETER | UNCERTAINTY |
|---------------------------------------|-------------|
| AC Powerline Conducted Emission | +/- 1.2575 |
| Emission bandwidth, 20dB bandwidth | +/- 1.4003 |
| RF output power, conducted | +/- 1.1372 |
| Power density, conducted | +/- 1.4003 |
| 3M Semi Anechoic Chamber / 30M~200M | +/- 4.0138 |
| 3M Semi Anechoic Chamber / 200M~1000M | +/- 3.9483 |
| 3M Semi Anechoic Chamber / 1G~8G | +/- 2.5975 |
| 3M Semi Anechoic Chamber / 8G~18G | +/- 2.6112 |
| 3M Semi Anechoic Chamber / 18G~26G | +/- 2.7389 |
| 3M Semi Anechoic Chamber / 26G~40G | +/- 2.9683 |
| 3M Semi Anechoic Chamber / 40G~60G | +/- 1.8509 |
| 3M Semi Anechoic Chamber / 60G~75G | +/- 1.9869 |
| 3M Semi Anechoic Chamber / 75G~110G | +/- 2.9651 |
| 3M Semi Anechoic Chamber / 110G~170G | +/- 2.7807 |
| 3M Semi Anechoic Chamber / 170G~220G | +/- 3.6437 |
| 3M Semi Anechoic Chamber / 220G~325G | +/- 4.2982 |

Remark:

^{1.} This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2

^{2.} ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report.

1.5 FACILITIES AND TEST LOCATION

All measurement facilities used to collect the measurement data are located at

1. No.11, Wugong 6th Rd., Wugu Dist., New Taipei City 24891, Taiwan. (R.O.C.)

2. No.163-1, Jhongsheng Rd. Sindian City, Taipei County 23151, Taiwan.

| Test site | Test Engineer | Remark |
|--------------------|---------------|---|
| AC Conduction Room | Jim Lian | The AC conduction room test items was tested at Compliance Certification Services Inc. (Sindian Lab.) The test equipments were listed in page 7 and the test data, please refer page 14-15. |
| Radiation | Ed Chiang | |
| RF Conducted | Eric Lee | |

Remark: The sites are constructed in conformance with the requirements of ANSI C63.7, ANSI C63.4 and CISPR Publication 22.

1.6 INSTRUMENT CALIBRATION

| RF Conducted Test Site | | | | | | | |
|---|-----|--------|--------|------------|------------|--|--|
| Equipment Manufacturer Model S/N Cal Date Cal Due | | | | | Cal Due | | |
| Spectrum Analyzer | R&S | FSV 40 | 101073 | 10/05/2016 | 10/04/2017 | | |

| 3M 966 Chamber Test Site | | | | | | | |
|--------------------------------------|----------------|-------|---------|------------|------------|--|--|
| Equipment Manufacturer Model S/N Cal | | | | Cal Due | Cal Due | | |
| Bilog Antenna | Sunol Sciences | JB3 | A030105 | 07/03/2016 | 07/02/2017 | | |
| Pre-Amplifier | EMEC | EM330 | 60609 | 06/08/2016 | 06/07/2017 | | |

| AC Conducted Emissions Test Site | | | | | | |
|----------------------------------|--------------|-----------|------------|------------|------------|--|
| Equipment | Manufacturer | Model | S/N | Cal Date | Cal Due | |
| BNC Cable | EMCI | CFD300-NL | BNC#B4 | 05/29/2016 | 05/28/2017 | |
| EMI Test Receiver | R&S | ESCI | 101201 | 08/20/2016 | 08/19/2017 | |
| ISN | Teseq | ISN T800 | 29449 | 08/19/2016 | 08/18/2017 | |
| LISN | Schwarzbeck | NSLK 8127 | 8129-286 | 08/19/2016 | 08/18/2017 | |
| LISN(EUT) | Schwarzbeck | NSLK 8127 | 8127527 | 08/19/2016 | 08/18/2017 | |
| Pulse Limiter | R&S | ESH3-Z2 | C3010026-2 | 08/23/2016 | 08/22/2017 | |
| Thermo-Hygro Meter | Wisewind | 201A | No. 02 | 05/03/2016 | 05/02/2017 | |
| Current Sensor Probe | Teseq | CSP 9160A | 73982 | 06/02/2016 | 06/01/2017 | |
| Capacitive Voltage Probe | Teseq | CVP 2200A | 37925 | 10/26/2016 | 10/25/2017 | |
| Software | EZ-EMC | | | | | |

Remark: Each piece of equipment is scheduled for calibration once a year.

1.7 SUPPORT AND EUT ACCESSORIES EQUIPMENT

| EUT Accessories Equipment | | | | | | | |
|---|-----|--|--|--|--|--|--|
| No. Equipment Brand Model Series No. FCC ID | | | | | | | |
| | N/A | | | | | | |

| | Support Equipment | | | | | | |
|-----|-----------------------|---------|-------------------|------------------------------|--------------------|--|--|
| No. | Equipment | Brand | Model | Series No. | FCC ID | | |
| 1 | NB | DELL | PP19L | R33002 | E2KWM3945ABG | | |
| 2 | Battery | YUASA | CMF 75D23L | N/A | N/A | | |
| 3 | PS/2 Mouse | hp | M-SBF96 | FATSQ0C5BYJQKZ | DOC BSMI:R41126 | | |
| 4 | PS/2 Keyboard | Genius | K639 | N/A | DOC BSMI:T3A164 | | |
| 5 | Microphone & Earphone | INTOPIC | LASS-288 | N/A | N/A | | |
| 6 | Monitor | DELL | P2314t | CN-0HMJ1V-74445-46 S-156S | R43004 | | |
| 7 | Host PC | DELL | T5810 | 8G5NKG2 | N/A | | |
| 8 | Modem | GALILEO | AL-56ERM | 0MERM04A0212 | DOC | | |
| 9 | Printer | HP | SNPRB-1202 -01 | CN54K182G9 | R330D1 | | |

1.8 TEST METHODOLOGY AND APPLIED STANDARDS

The test methodology, setups and results comply with all requirements in accordance with ANSI C63.10:2013, FCC Part 15.239, RSS-210 Issue 9 and RSS-GEN Issue 4

1.9 TABLE OF ACCREDITATIONS AND LISTINGS

| Country | Agency | Scope of Accreditation | Logo | |
|---------|--------------------|--|------------------------------------|--|
| USA | FCC | 3M Semi Anechoic Chamber (FCC MRA: TW1039) to perform FCC Part 15 measurements | FCC MRA: TW1039 | |
| Canada | Industry Canada | 3M Semi Anechoic Chamber (IC 2324G-1 / IC 2324G-2) to perform | Canada IC 2324G-1 IC 2324G-2 | |

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2. TEST SUMMERY

| FCC Standard Section | IC Standard Section | Report Section | Test Item | Result |
|----------------------------|------------------------|-------------------|-----------------------------|--------|
| 15.203 | - | 1.2 | Antenna Requirement | Pass |
| 15.207(a) | RSS-GEN 8.8 | 4.1 | AC Conducted Emission | Pass |
| - | - | 4.2 | 20 dB Bandwidth | - |
| 15.239(a) | RSS-210 B.9(a) | 4.2 | Occupied Bandwidth (99%) | Pass |
| 15.239(b)(c) | RSS-210 B.9(b)(c) | 4.3 | Radiation Band Edge | Pass |
| 15.239(b)(c) | RSS-210 B.9(b)(c) | 4.3 | Radiation Spurious Emission | Pass |

3. DESCRIPTION OF TEST MODES

3.1 THE WORST MODE OF OPERATING CONDITION

| Operation mode | FM 88MHz to 108MHz |
|--------------------------|---|
| Test Channel Frequencies | 1.Lowest Channel: 88.1MHz 2.Middle Channel: 98.1MHz 3.Highest Channel: 107.9MHz |

Remark:

_

^{1.} EUT pre-scanned data rate of output power for each mode, the worst data rate were recorded in this report.

3.2 THE WORST MODE OF MEASUREMENT

| AC Power Line Conducted Emission | | | | |
|--|-----------|--|--|--|
| Test Condition AC Power line conducted emission for line and neutral | | | | |
| Voltage/Hz | 120V/60Hz | | | |
| Test Mode Mode 1:EUT power by AC adapter via power cable. | | | | |
| Worst Mode | | | | |

| Radiated Emission Measurement Below 1G | | | | |
|--|--|--|--|--|
| Test Condition | Radiated Emission Below 1G | | | |
| Voltage/Hz | 12V DC and 5V DC | | | |
| | Mode 1:EUT power by 12V DC via car charger. Mode 2:EUT power by 5V DC via USB. | | | |
| Worst Mode | | | | |

Remark:

- 1. The worst mode was record in this test report.
- 2. EUT pre-scanned in three axis ,X,Y, Z and two polarity, Horizontal and Vertical for radiated measurement. The worst case(Y-Plane and Vertical) were recorded in this report

4. TEST RESULT

4.1 AC POWER LINE CONDUCTED EMISSION

4.1.1 Test Limit

According to §15.207(a) and RSS-GEN section 8.8,

| Frequency Range | Limits(dBµV) | | |
|-----------------|--------------|-----------|--|
| (MHz) | 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 | |

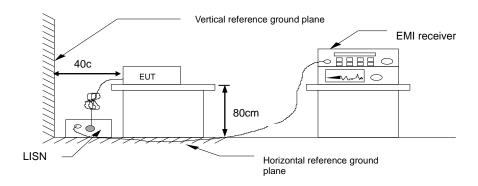
^{*} Decreases with the logarithm of the frequency.

4.1.2 Test Procedure

Test method Refer as ANSI 63.10:2013 clause 6.2,

- The EUT was placed on a non-conducted table, which is 0.8m above horizontal ground plane and 0.4m above vertical ground plane.
- 2. EUT connected to the line impedance stabilization network (LISN)
- Receiver set RBW of 9kHz and Detector Peak, and note as quasi-peak and average.
- Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- Recorded Line for Neutral and Line.

4.1.3 Test Setup

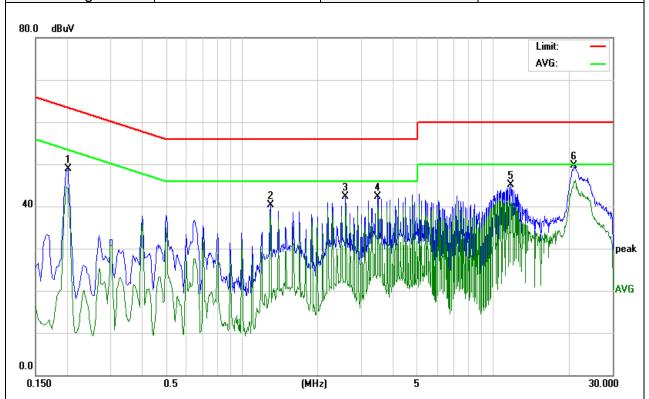


4.1.4 Test Result

Pass

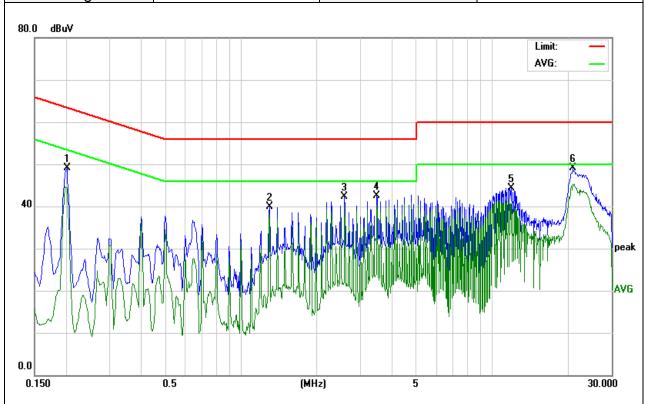
Test Data

| Test Mode | Mode 1 | Temp/Hum | 27(°C)/ 53%RH |
|---------------|----------|-----------|---------------|
| Phase | Line | Test Date | Jan 03, 2017 |
| Test Engineer | Jim Lian | | |



| Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dB) | Limit (dBuV) | Margin (dBuV) | Detector (dBuV) |
|--------------------|-------------------|-------------|-------------|-----------------|------------------|--------------------|
| 0.2020 | 38.83 | 10.10 | 48.93 | 63.52 | -14.59 | peak |
| 1.2980 | 30.21 | 10.17 | 40.38 | 56.00 | -15.62 | peak |
| 2.5939 | 32.02 | 10.32 | 42.34 | 56.00 | -13.66 | peak |
| 3.4900 | 32.07 | 10.33 | 42.40 | 56.00 | -13.60 | peak |
| 11.7698 | 34.36 | 10.67 | 45.03 | 60.00 | -14.97 | peak |
| 21.0457 | 38.52 | 11.22 | 49.74 | 60.00 | -10.26 | peak |

| Test Mode | Mode 1 | Temp/Hum | 27(°C)/ 53%RH |
|---------------|----------|-----------|---------------|
| Phase | Neutral | Test Date | Jan 03, 2017 |
| Test Engineer | Jim Lian | | |



| Frequency (MHz) | Reading (dBuV) | Factor (dB) | Result (dB) | Limit (dBuV) | Margin (dBuV) | Detector (dBuV) |
|--------------------|-------------------|-------------|-------------|-----------------|------------------|--------------------|
| 0.2020 | 38.97 | 10.10 | 49.07 | 63.52 | -14.45 | peak |
| 1.2980 | 29.79 | 10.17 | 39.96 | 56.00 | -16.04 | peak |
| 2.5939 | 32.02 | 10.32 | 42.34 | 56.00 | -13.66 | peak |
| 3.4900 | 32.20 | 10.33 | 42.53 | 56.00 | -13.47 | peak |
| 11.9699 | 33.71 | 10.68 | 44.39 | 60.00 | -15.61 | peak |
| 21.1460 | 37.86 | 11.24 | 49.10 | 60.00 | -10.90 | peak |



4.220DB BANDWIDTH AND OCCUPIED BANDWIDTH(99%)

4.2.1 Test Limit

According to §15.239(a)(2) and RSS-210 section B9 (a)

20 dB Bandwidth and Occupied Bandwidth(99%) :

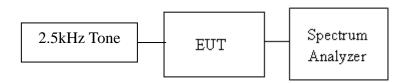
| Limit | 200kHz |
|-------|--------|
| | |

Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the frequency range of 88-108 MHz.

4.2.2 Test Procedure

- 1. The EUT RF output connected to the spectrum analyzer by RF cable.
- 2. Setting maximum power transmit of EUT
- SA set RBW = 2kHz, VBW = 10kHz and Detector = Peak, to measurement 20 dB Bandwidth and 99% Bandwidth.
- Measure and record the result of 20 dB Bandwidth and 99% Bandwidth. in the test report.

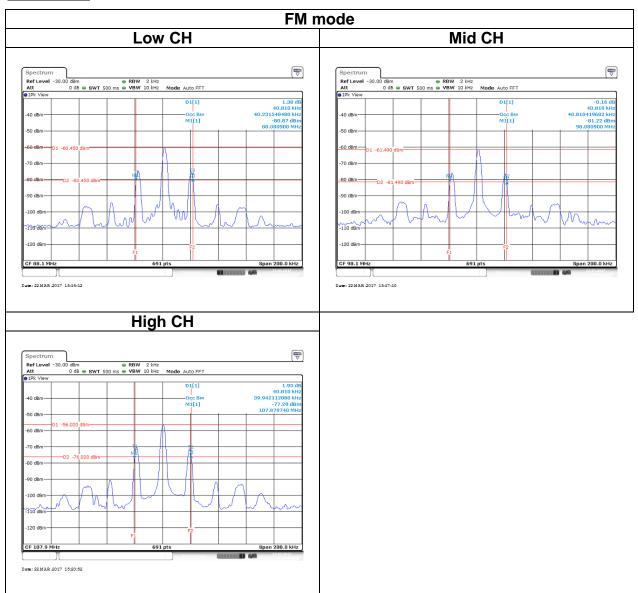
4.2.3 Test Setup



4.2.4 Test Result

| | Test mode: FM mode / 88-108 MHz | | | | | | | | | | |
|---------|---------------------------------|-------------------|------------------|-------------------------|--|--|--|--|--|--|--|
| Channel | Frequency (MHz) | OBW(99%) (kHz) | 20dB BW (kHz) | OBW(99%) limit (kHz) | | | | | | | |
| Low | 88.1 | 40.2315 | 40.810 | | | | | | | | |
| Mid | 98.1 | 40.8104 | 40.810 | 200 | | | | | | | |
| High | 107.9 | 39.9421 | 40.810 | | | | | | | | |

Test Data





4.3 RADIATION BANDEDGE AND SPURIOUS EMISSION

4.3.1 Test Limit

FCC according to §15.239(b)(c), §15.209 and §15.205,

The field strength of any emissions within the permitted 200 kHz band shall not exceed 250 microvolts/meter at 3 meters. The emission limit in this paragraph is based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emission limits in §15.209

IC according to RSS-210 section B.9(b)(c), RSS-Gen, Section 8.9 and 8.10

The field strength of any emissions within the authorized bandwidth shall not exceed 250 µV/m measured at 3 m with an average meter. Any type of modulation can be used.

The field strength of any emissions outside the 200 kHz authorized bandwidth or outside the band 88-108 MHz shall not exceed the general field strength limits specified in RSS-Gen.

FCC section 15.209 and RSS-Gen, Section 8.9 and 8.10 as below limit in table.

Below 30 MHz

| Frequency | Field Strength (microvolts/m) | Magnetic H-Field (microamperes/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 30 MHz

| Frequency | Field Stromicrovolts/m at 3 me | |
|-----------|--------------------------------|--------------|
| (MHz) | 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) |

FCC section 15.239(b)(c) and RSS-210 Section B.9(b)(c) as below limit in table.

Fundamental:

| Frequency(MHz) | | of Fundamental V/m) |
|----------------|-------|------------------------|
| 88-108 | AVG | Peak |
| | 47.96 | 67.96 |

Band Edge and Emission Outside of the frequency:

| Frequency(MHz) | QP Limit (dBuV/m at 3M) |
|----------------|----------------------------|
| Below 88 | 40.0 |
| Above 108 | 43.5 |

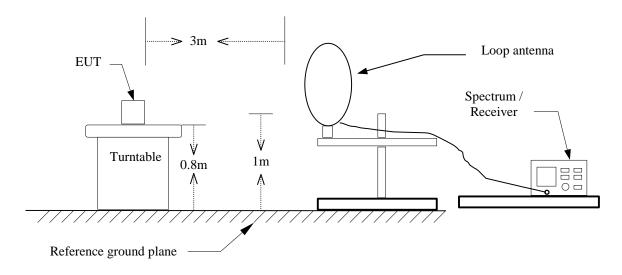
4.3.2 Test Procedure

- 1. The EUT is placed on a turntable, Above 1 GHz is 1.5m and below 1 GHz is 0.8m above ground plane. The EUT Configured un accordance with ANSI C63.10, and the EUT set in a continuous mode.
- 2. The turntable shall be rotated for 360 degrees to determine the position of maximum emission level. And EUT is set 3m away from the receiving antenna, which is scanned from 1m to 4m above the ground plane to find out the highest emissions. Measurement are made polarized in both the vertical and the horizontal positions with antenna.
- 3. Span shall wide enough to full capture the emission measured. The SA from 30MHz to 1GHz set to the low, Mid and High channels with the EUT transmit.
- 4. The SA setting following:
 - (1) Below 1G: RBW = 100kHz, VBW ≥ 3 RBW, Sweep = Auto, Detector = Peak, Trace = Max hold.

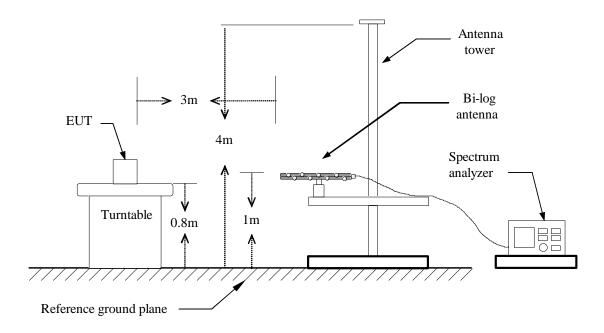


4.3.3 Test Setup

9kHz ~ 30MHz



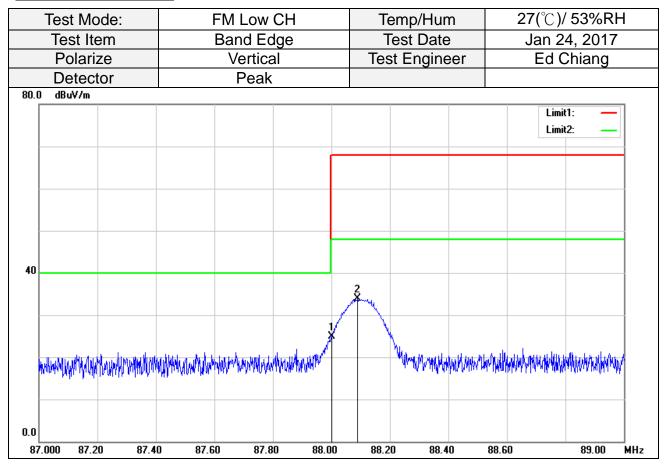
30MHz ~ 1GHz



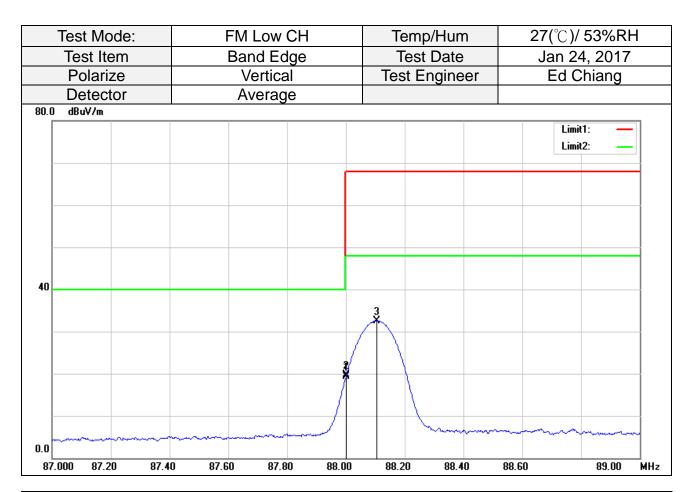


4.3.4 Test Result

Band Edge Test Data



| | No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|---|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| Ī | 1 | 88.0000 | 46.37 | -21.45 | 24.92 | 40.00 | -15.08 | peak |
| | 2 | 88.0900 | 55.31 | -21.45 | 33.86 | 67.96 | -34.10 | peak |

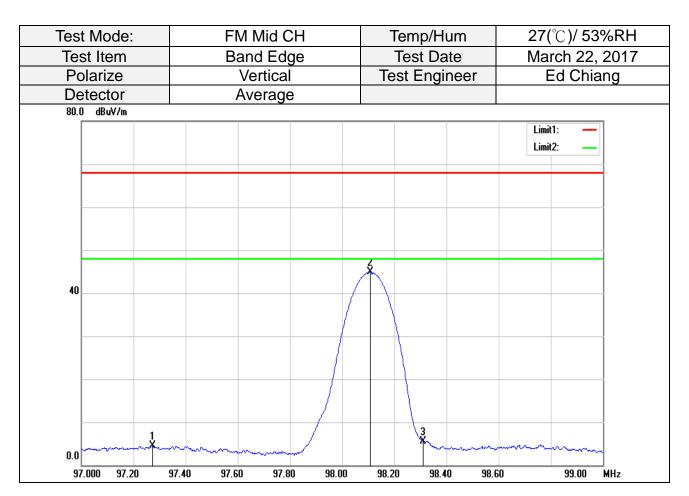


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 88.0000 | 40.71 | -21.45 | 19.26 | 40.00 | -20.74 | AVG |
| 2 | 88.0020 | 41.18 | -21.45 | 19.73 | 47.96 | -28.23 | AVG |
| 3 | 88.1060 | 53.97 | -21.45 | 32.52 | 47.96 | -15.44 | AVG |

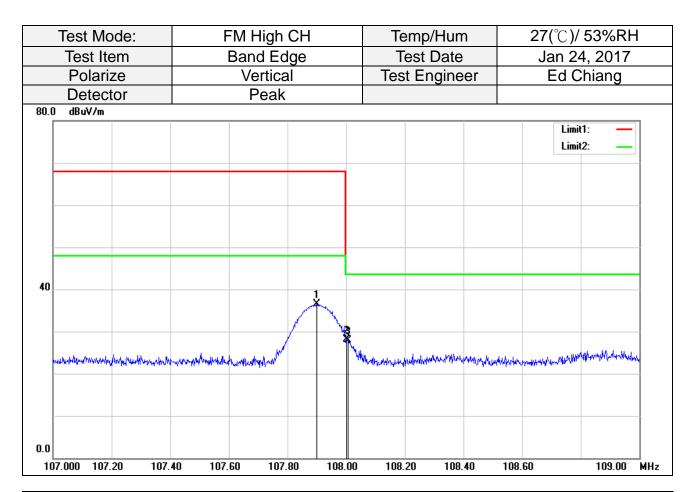


| Test Item Band Edge Test Date March 22, 2017 Polarize Vertical Test Engineer Ed Chiang Detector Peak 80.0 dBuV/m Limit1: — Limit2: — | Polarize Vertical Test Engineer Ed Chiang Detector Peak 80.0 dBuV/m Limit1: — Limit2: — 40 | Test Mode: | FM Mid CH | Temp/Hum | 27(°ℂ)/ 53%RH |
|--|--|-------------|-----------|---------------|----------------|
| Detector Peak 80.0 dBuV/m Limit1: — Limit2: — | Detector Peak 80.0 dBuV/m Limit1: — Limit2: — | Test Item | Band Edge | Test Date | March 22, 2017 |
| 80.0 dBuV/m Limit1: — Limit2: — | 80.0 dBuV/m Limit1: Limit2: Limit2: Limit4: Limit2: Limit4: Limit4: Limit4: Limit4: Limit4: Limit4: Limit4: Limit4: Limit5: Limit5: Limit6: L | Polarize | Vertical | Test Engineer | Ed Chiang |
| Limit1: — Limit2: — | 40 Limit1: — Limit2: — | Detector | Peak | | |
| Limit2: | 40 | 80.0 dBuV/m | | | |
| 40 | | | | | |
| 40 | | | | | |
| | | 40 | | | |
| WAS COMPANY CO | | 0.0 | | | |

| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 97.4220 | 37.76 | -19.67 | 18.09 | 67.96 | -49.87 | peak |
| 2 | 98.0940 | 64.66 | -19.50 | 45.16 | 67.96 | -22.80 | peak |
| 3 | 98.3000 | 37.56 | -19.45 | 18.11 | 67.96 | -49.85 | peak |

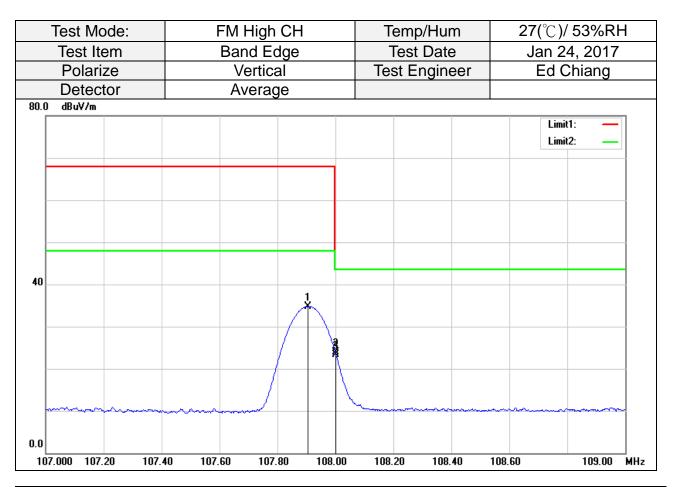


| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 97.2720 | 24.19 | -19.70 | 4.49 | 47.96 | -43.47 | AVG |
| 2 | 98.1080 | 64.37 | -19.50 | 44.87 | 47.96 | -3.09 | AVG |
| 3 | 98.3100 | 25.03 | -19.45 | 5.58 | 47.96 | -42.38 | AVG |



| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 107.9000 | 54.15 | -17.64 | 36.51 | 67.96 | -31.45 | peak |
| 2 | 108.0000 | 45.70 | -17.62 | 28.08 | 43.52 | -15.44 | peak |
| 3 | 108.0060 | 45.62 | -17.62 | 28.00 | 43.52 | -15.52 | peak |

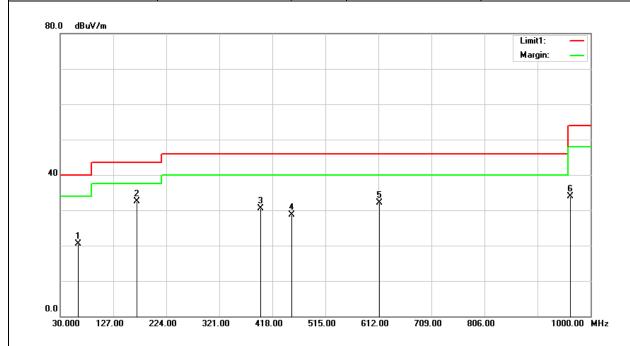




| No. | Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----|-----------|---------|--------------|----------|----------|--------|--------|
| | (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 1 | 107.9040 | 52.40 | -17.63 | 34.77 | 47.96 | -13.19 | AVG |
| 2 | 108.0000 | 41.47 | -17.62 | 23.85 | 43.52 | -19.67 | AVG |
| 3 | 108.0020 | 40.99 | -17.62 | 23.37 | 43.52 | -20.15 | AVG |

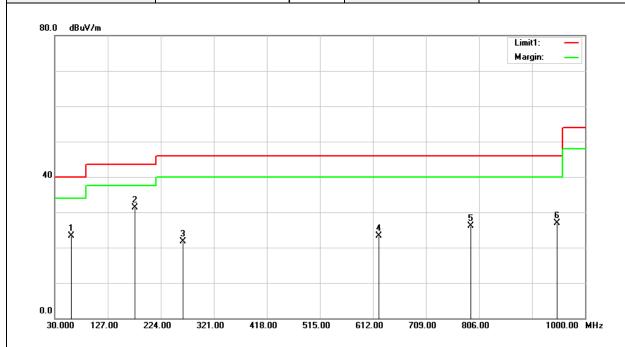
Below 1G Test Data

| Test Mode: | FM Low CH | Temp/Hum | 27(°ℂ)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Vertical | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | | |



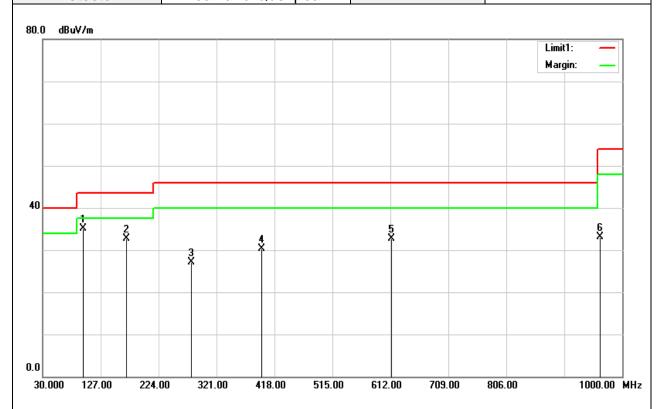
| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 62.3600 | 42.36 | -21.78 | 20.58 | 40.00 | -19.42 | peak |
| 169.6800 | 49.39 | -16.83 | 32.56 | 43.50 | -10.94 | peak |
| 396.6600 | 42.23 | -11.78 | 30.45 | 46.00 | -15.55 | peak |
| 452.9200 | 38.82 | -10.13 | 28.69 | 46.00 | -17.31 | peak |
| 613.9400 | 39.59 | -7.43 | 32.16 | 46.00 | -13.84 | peak |
| 963.1400 | 36.15 | -2.18 | 33.97 | 54.00 | -20.03 | peak |

| Test Mode: | FM Low CH | Temp/Hum | 27(°C)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Horizontal | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | | |



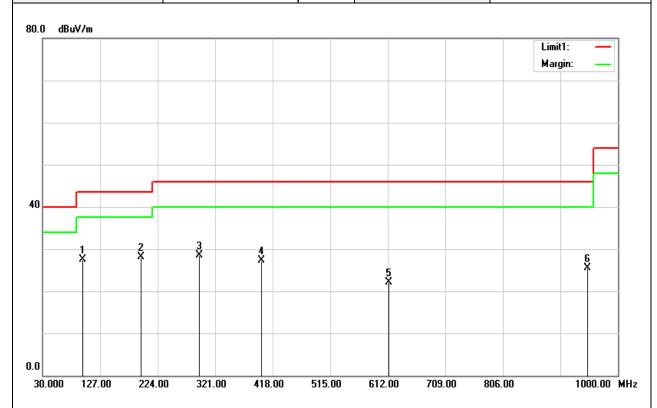
| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 60.3600 | 45.33 | -22.06 | 23.27 | 40.00 | -16.73 | peak |
| 176.4700 | 48.50 | -17.17 | 31.33 | 43.50 | -12.17 | peak |
| 264.7400 | 36.99 | -15.19 | 21.80 | 46.00 | -24.20 | peak |
| 622.6700 | 30.48 | -7.22 | 23.26 | 46.00 | -22.74 | peak |
| 791.4500 | 30.71 | -4.57 | 26.14 | 46.00 | -19.86 | peak |
| 948.5900 | 29.28 | -2.42 | 26.86 | 46.00 | -19.14 | peak |

| Test Mode: | FM Mid CH | Temp/Hum | 27(°ℂ)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Vertical | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | | |



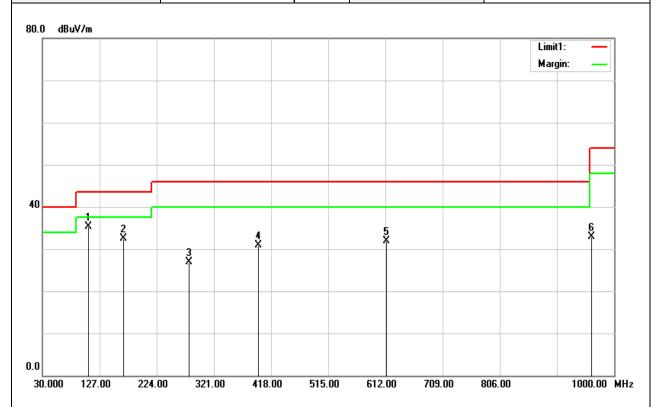
| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 97.9000 | 54.73 | -19.55 | 35.18 | 43.50 | -8.32 | peak |
| 169.6800 | 49.54 | -16.83 | 32.71 | 43.50 | -10.79 | peak |
| 279.2900 | 41.67 | -14.63 | 27.04 | 46.00 | -18.96 | peak |
| 396.6600 | 42.08 | -11.78 | 30.30 | 46.00 | -15.70 | peak |
| 613.9400 | 40.05 | -7.43 | 32.62 | 46.00 | -13.38 | peak |
| 963.1400 | 35.28 | -2.18 | 33.10 | 54.00 | -20.90 | peak |

| Test Mode: | FM Low CH | Temp/Hum | 27(°ℂ)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Horizontal | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | | - |



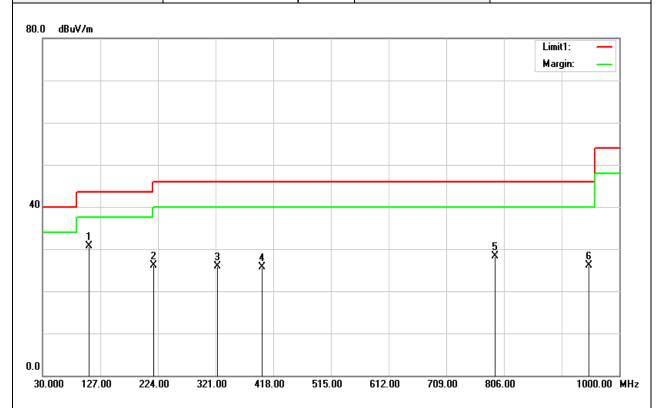
| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 97.9000 | 47.08 | -19.55 | 27.53 | 43.50 | -15.97 | peak |
| 195.8700 | 44.08 | -15.92 | 28.16 | 43.50 | -15.34 | peak |
| 293.8400 | 42.95 | -14.35 | 28.60 | 46.00 | -17.40 | peak |
| 399.5700 | 39.02 | -11.71 | 27.31 | 46.00 | -18.69 | peak |
| 613.9400 | 29.45 | -7.43 | 22.02 | 46.00 | -23.98 | peak |
| 948.5900 | 27.99 | -2.42 | 25.57 | 46.00 | -20.43 | peak |

| Test Mode: | FM High CH | Temp/Hum | 27(°ℂ)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Vertical | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | _ | _ |



| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 107.6000 | 53.06 | -17.69 | 35.37 | 43.50 | -8.13 | peak |
| 167.7400 | 49.28 | -16.74 | 32.54 | 43.50 | -10.96 | peak |
| 279.2900 | 41.47 | -14.63 | 26.84 | 46.00 | -19.16 | peak |
| 396.6600 | 42.64 | -11.78 | 30.86 | 46.00 | -15.14 | peak |
| 613.9400 | 39.35 | -7.43 | 31.92 | 46.00 | -14.08 | peak |
| 962.1700 | 35.16 | -2.20 | 32.96 | 54.00 | -21.04 | peak |

| Test Mode: | FM High CH | Temp/Hum | 27(°C)/ 53%RH |
|------------|--------------------|---------------|---------------|
| Test Item | 30MHz-1GHz | Test Date | Jan 24, 2017 |
| Polarize | Horizontal | Test Engineer | Ed Chiang |
| Detector | Peak and Qusi-peak | | - |



| Frequency (MHz) | Reading (dBuV) | Correct Factor (dB/m) | Result (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Remark |
|--------------------|-------------------|-----------------------------|--------------------|-------------------|----------------|--------|
| 107.6000 | 48.37 | -17.69 | 30.68 | 43.50 | -12.82 | peak |
| 216.2400 | 42.83 | -16.69 | 26.14 | 46.00 | -19.86 | peak |
| 323.9100 | 39.41 | -13.59 | 25.82 | 46.00 | -20.18 | peak |
| 399.5700 | 37.50 | -11.71 | 25.79 | 46.00 | -20.21 | peak |
| 791.4500 | 32.96 | -4.57 | 28.39 | 46.00 | -17.61 | peak |
| 948.5900 | 28.47 | -2.42 | 26.05 | 46.00 | -19.95 | peak |