

Report No.: SZEM190101013201
Page: 1 of 14

TEST REPORT

Application No.: SZEM1901010132CR
Applicant: Navico Inc.
Address of Applicant: 4500 S. 129th East Avenue, Ste. 200, Tulsa, Oklahoma, 74134 United States
Manufacturer: Navico Auckland Limited
Address of Manufacturer: Arrenway Drive, Rosedale, Auckland, 0632 New Zealand
Factory: Shenzhen Hytera Communications Corporation Limited
Address of Factory: Hytera Technology Park, Baolong Industrial City, Longgang District, Shenzhen, China

Equipment Under Test (EUT):

EUT Name: Marine VHF Radio

Model No.: V60-B, RS40-B *

* Please refer to section 2 of this report which indicates which model was actually tested and which were electrically identical.

Trade mark: B&G, SIMRAD

Standard(s) : 47 CFR Part 15, Subpart B

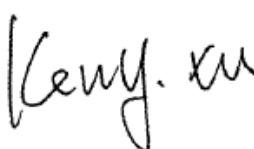
Date of Receipt: 2019-01-07

Date of Test: 2019-03-11 to 2019-04-11

Date of Issue: 2019-04-15

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

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



Keny Xu
EMC Laboratory Manager



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| Revision Record | | | | |
|------------------------|----------------|-------------|-----------------|---------------|
| Version | Chapter | Date | Modifier | Remark |
| 01 | | 2019-04-15 | | Original |
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|---------------------------------|--|---|--|
| Authorized for issue by: | | | |
| | |  | |
| | | Edison Li /Project Engineer | |
| | |  | |
| | | Eric Fu /Reviewer | |

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2 Test Summary

| Emission Part | | | | |
|------------------------------------|------------------------------|-----------------|--------------------|---------------|
| Item | Standard | Method | Requirement | Result |
| Radiated Emissions (30MHz-1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |
| Radiated Emissions (above 1GHz) | 47 CFR Part 15, Subpart B | ANSI C63.4:2014 | Class B | Pass |

| Internal Source | Upper Frequency |
|------------------------|--|
| Below 1.705MHz | 30MHz |
| 1.705MHz to 108MHz | 1GHz |
| 108MHz to 500MHz | 2GHz |
| 500MHz to 1GHz | 5GHz |
| Above 1GHz | 5th harmonic of the highest frequency or 40GHz, whichever is lower |

Remark:

Model No.: V60-B, RS40-B

Only the model V60-B was tested, since the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only differences are the trade name and model no. for trading purpose.

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4 General Information

4.1 Details of E.U.T.

| | |
|------------------|--|
| Power supply: | 12 VDC battery system |
| Cable: | DC cable: longer than 300cm unshielded |
| Sample Type: | Mobile device |
| Internal Source: | More than 108MHz |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------------|--------------------|-----------|-----------------|
| DC power | ZHAOXIN | RXN-305D | REF. No.SEA2700 |
| Coaxial Attenuator | Provided by client | TS4 | HYT168793 |
| Cell Site Test Set | HP | 8921A | 3633A04615 |
| Audio Analyzer | Rohde & Schwarz | UPV | SEM008-03 |
| Wireless Handset | Hytera | H60 | 1812H30110003 |

4.3 Measurement Uncertainty

| No. | Item | Measurement Uncertainty |
|-----|-------------------|-------------------------|
| 1 | Radiated Emission | ± 4.5dB (30MHz-1GHz) |
| | | ± 4.8dB (1GHz-6GHz) |
| 2 | Temperature test | ± 1 °C |
| 3 | Humidity test | ± 3% |

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5 Equipment List

| Radiated Emissions (30MHz-1GHz) | | | | | |
|--|----------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEM001-01 | 2017-08-05 | 2020-08-04 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM025-01 | 2018-07-12 | 2019-07-11 |
| EMI Test Receiver | Agilent Technologies | N9038A | SEM004-05 | 2018-09-25 | 2019-09-24 |
| BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEM003-01 | 2017-06-27 | 2020-06-26 |
| Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEM005-01 | 2018-04-02 | 2019-04-01 |

| Radiated Emissions (above 1GHz) | | | | | |
|--|------------------------------------|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| 3m Semi-Anechoic Chamber | AUDIX | N/A | SEM001-02 | 2018-03-13 | 2021-03-12 |
| Measurement Software | AUDIX | e3 V8.2014-6-27 | N/A | N/A | N/A |
| Coaxial Cable | SGS | N/A | SEM026-01 | 2018-07-12 | 2019-07-11 |
| EXA Spectrum Analyzer | Agilent Technologies Inc | N9010A | SEM004-12 | 2018-04-13 | 2019-04-12 |
| Horn Antenna(1-18GHz) | Rohde & Schwarz | HF907 | SEM003-07 | 2018-04-13 | 2021-04-12 |
| Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEM004-11 | 2018-09-27 | 2019-09-26 |

| General used equipment | | | | | |
|---------------------------------|---|-----------------|---------------------|-----------------|---------------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-03 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Shanghai Meteorological Industry Factory | ZJ1-2B | SEM002-04 | 2018-09-27 | 2019-09-26 |
| Humidity/ Temperature Indicator | Mingle | N/A | SEM002-08 | 2018-09-27 | 2019-09-26 |
| Barometer | Changchun Meteorological Industry Factory | DYM3 | SEM002-01 | 2018-04-08 | 2019-04-07 |



6 Emission Test Results

6.1 Radiated Emissions (30MHz-1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: 30MHz to 1GHz

Measurement Distance: 3m

Limit:

30MHz -88MHz 40.0(dB μ V/m) quasi-peak

88MHz-216MHz 43.5(dB μ V/m) quasi-peak

216MHz-960MHz 46.0(dB μ V/m) quasi-peak

960MHz-1000MHz 54.0(dB μ V/m) quasi-peak

Detector: Peak for pre-scan (120kHz resolution bandwidth) 30M to1000MHz

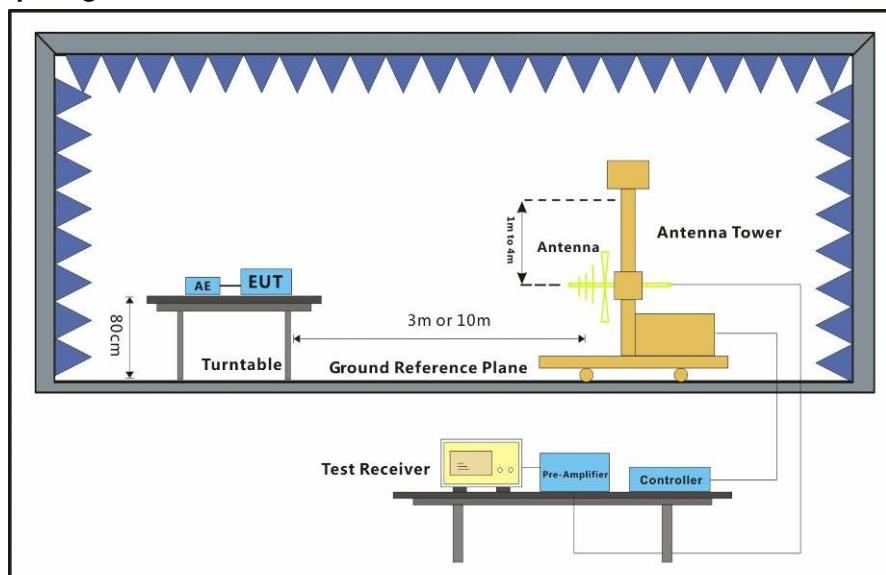
6.1.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C Humidity: 55 % RH Atmospheric Pressure: 1030 mbar

Test mode: a:Normal Working_Blank

6.1.2 Test Setup Diagram



6.1.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Quasi-peak measurements were conducted based on the peak sweep graph. The EUT was measured by BiConiLog antenna with 2 orthogonal polarities.



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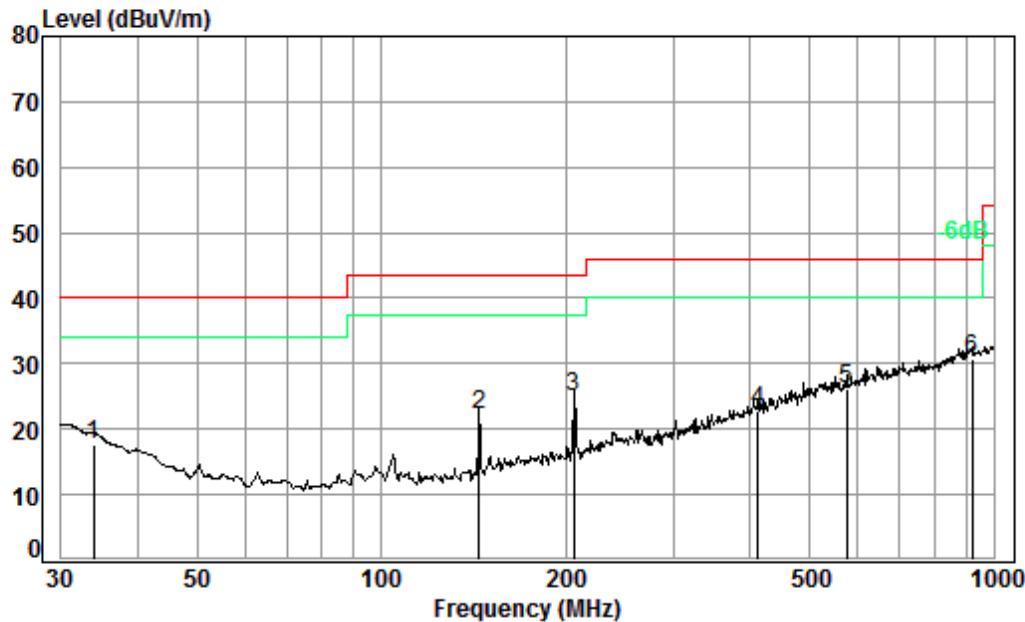
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Mode:a; Polarization:Horizontal



Condition: 3m HORIZONTAL

Job No. : 10132CR

Test mode: a

| | Freq | Cable Loss | Ant Factor | Preamp Factor | Read Level | Limit Level | Limit Line | Over Limit |
|------|--------|------------|------------|---------------|------------|-------------|------------|------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 33.92 | 0.60 | 20.37 | 27.44 | 24.06 | 17.59 | 40.00 | -22.41 |
| 2 | 144.33 | 1.31 | 14.11 | 27.11 | 33.76 | 22.07 | 43.50 | -21.43 |
| 3 | 206.40 | 1.44 | 16.73 | 26.88 | 33.75 | 25.04 | 43.50 | -18.46 |
| 4 | 411.82 | 2.25 | 22.69 | 27.24 | 24.97 | 22.67 | 46.00 | -23.33 |
| 5 | 574.63 | 2.68 | 26.13 | 27.87 | 25.29 | 26.23 | 46.00 | -19.77 |
| 6 pp | 922.52 | 3.62 | 29.92 | 26.93 | 24.08 | 30.69 | 46.00 | -15.31 |

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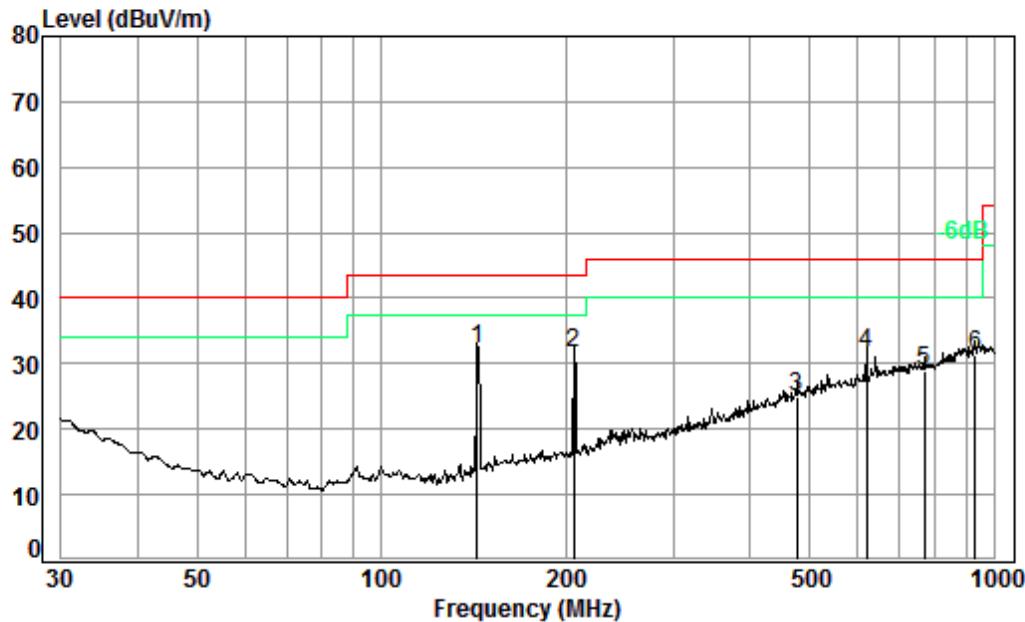
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Mode:a; Polarization:Vertical



Condition: 3m VERTICAL

Job No. : 10132CR

Test mode: a

| | Freq | Cable | Ant | Preamp | Read | Limit | Over | Limit |
|------|--------|-------|-------|--------|--------|-------|-------|--------|
| | | MHz | Loss | Factor | Factor | Level | Level | |
| 1 pp | 143.33 | 1.30 | 14.02 | 27.12 | 43.97 | 32.17 | 43.50 | -11.33 |
| 2 | 206.40 | 1.44 | 16.73 | 26.88 | 40.30 | 31.59 | 43.50 | -11.91 |
| 3 | 477.17 | 2.52 | 24.14 | 27.52 | 25.91 | 25.05 | 46.00 | -20.95 |
| 4 | 620.71 | 2.75 | 26.89 | 27.91 | 29.75 | 31.48 | 46.00 | -14.52 |
| 5 | 771.45 | 3.12 | 28.34 | 27.68 | 25.13 | 28.91 | 46.00 | -17.09 |
| 6 | 932.27 | 3.63 | 29.97 | 26.88 | 24.61 | 31.33 | 46.00 | -14.67 |



6.2 Radiated Emissions (above 1GHz)

Test Requirement: 47 CFR Part 15, Subpart B

Test Method: ANSI C63.4:2014

Frequency Range: Above 1GHz

Measurement Distance: 3m

Limit:

Above 1GHz 74(dB μ V/m) peak, 54(dB μ V/m) average

Detector: Peak for pre-scan (1000kHz resolution bandwidth) 1000M to18000MHz

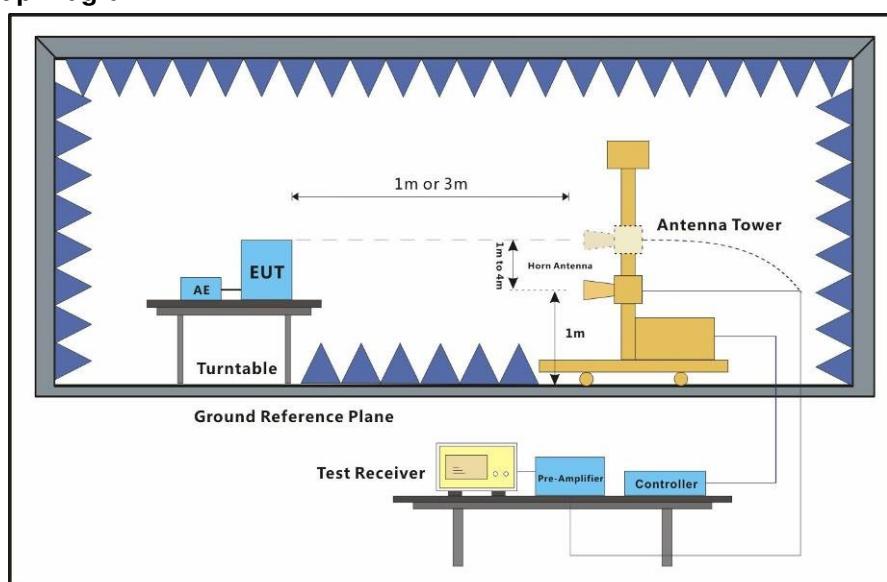
6.2.1 E.U.T. Operation

Operating Environment:

Temperature: 21.2 °C Humidity: 68.2 % RH Atmospheric Pressure: 1030 mbar

Test mode: a:Normal Working_Blank

6.2.2 Test Setup Diagram



6.2.3 Measurement Data

An initial pre-scan was performed in the chamber using the spectrum analyser in peak detection mode. Average measurements were conducted based on the peak sweep graph. The EUT was measured by Horn antenna with 2 orthogonal polarities.

Remark:

1) Scan from 9kHz to 25GHz, the disturbance above 6GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

2) For frequencies above 1GHz, the emission limits are based on average limits. However, the peak emissions shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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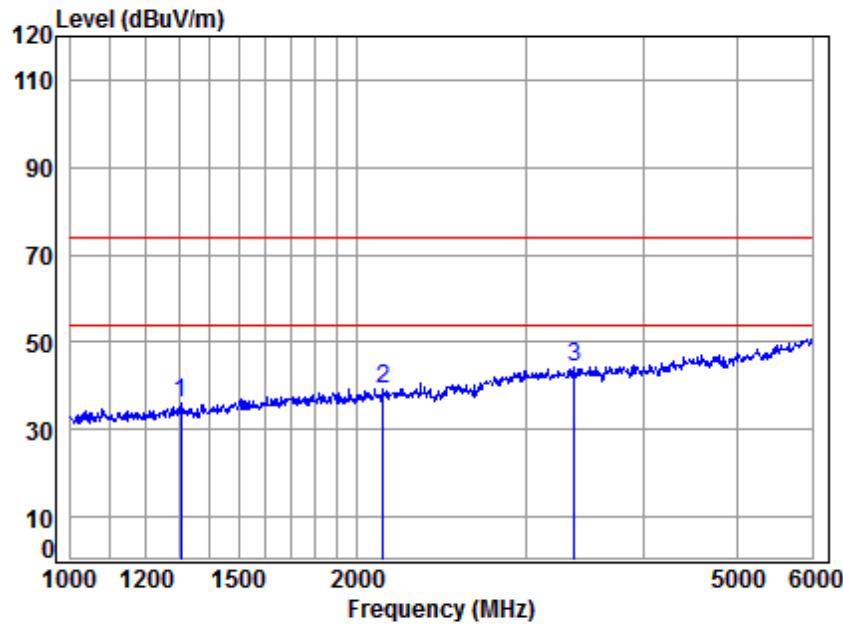
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Mode:a; Polarization:Horizontal



Site : chamber
Condition: 3m Horizontal
Job No : 10132CR
Mode : a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark |
|------|----------|--------|--------|-------|--------|--------|-------------------|
| | Loss | Factor | Factor | Level | | | |
| MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 1303.666 | 4.81 | 25.04 | 40.57 | 46.62 | 35.90 | 74.00 -38.10 Peak |
| 2 | 2130.001 | 5.10 | 28.05 | 41.06 | 47.35 | 39.44 | 74.00 -34.56 Peak |
| 3 | 3381.760 | 6.35 | 31.52 | 41.96 | 48.34 | 44.25 | 74.00 -29.75 Peak |

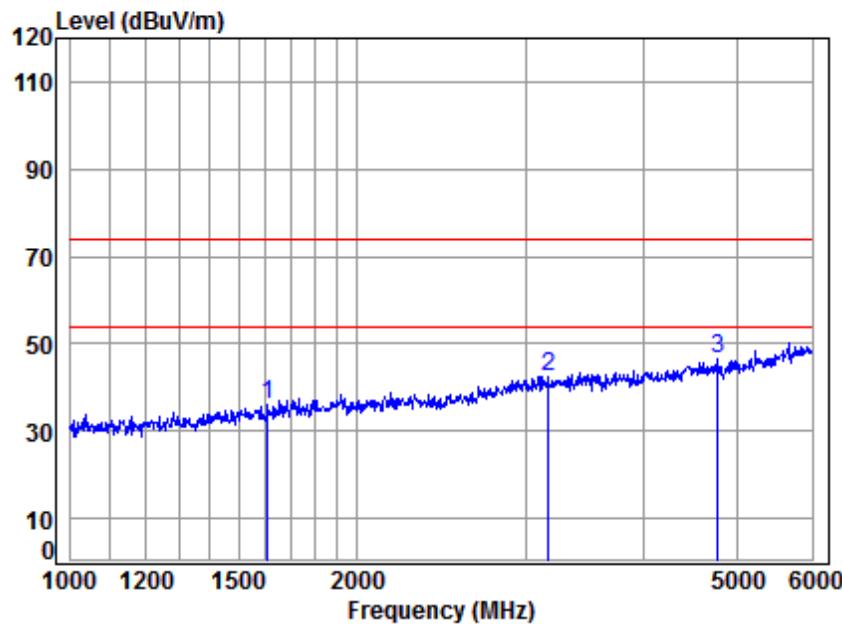
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Mode:a; Polarization:Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 10132CR
Mode : a

| Freq | Cable | Ant | Preamp | Read | Limit | Over | Remark | |
|------|----------|--------|--------|-------|-------|--------|--------|-------------|
| | Loss | Factor | Factor | Level | | | | |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dB | |
| 1 | 1607.719 | 5.34 | 26.28 | 40.78 | 45.02 | 35.86 | 74.00 | -38.14 Peak |
| 2 | 3170.512 | 6.15 | 31.19 | 41.66 | 46.88 | 42.56 | 74.00 | -31.44 Peak |
| 3 | 4778.879 | 7.86 | 33.94 | 43.59 | 48.12 | 46.33 | 74.00 | -27.67 Peak |



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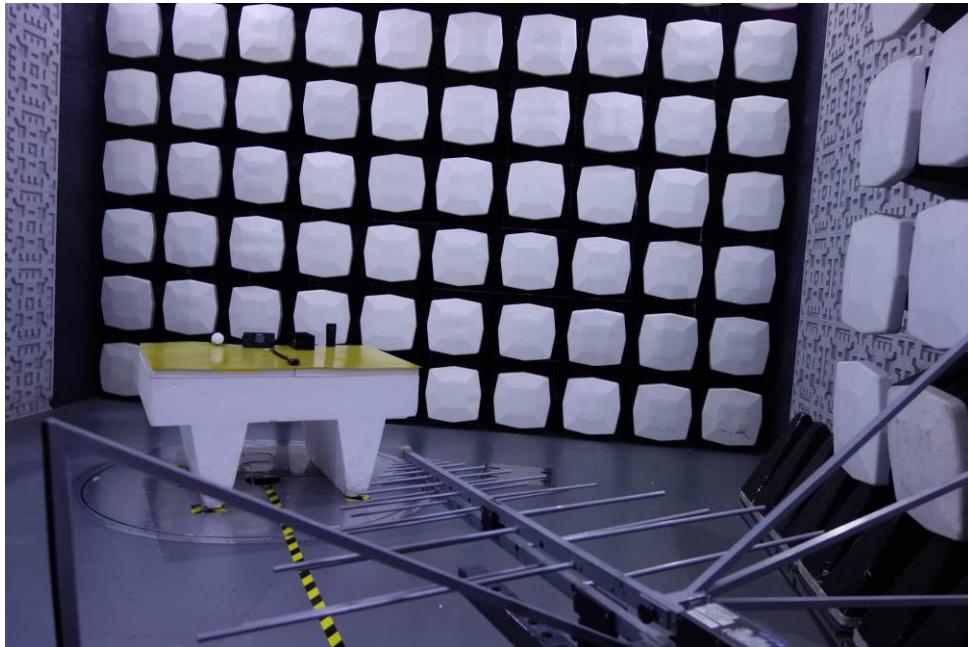
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7 Photographs

7.1 Radiated Emissions (30MHz-1GHz) Test Setup



7.2 EUT Constructional Details (EUT Photos)

Please Refer to external and internal photos for details.

- End of the Report -



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