




TEST REPORT

For FCC Part15B

Report No.: **CHTW24060035** Report verification: 

Project No.: **SHT2406041701W**

FCC ID.....: **2BGNSDH4X0V**

Applicant's name.....: **SATELRADIO TELECOMUNICACAO LTDA**

Address.....: **AV.FRANCISCO MATARAZZO, 1752, SALAS 516, AGUA
BRANCA, SAO PAULO/SP, BRAZIL**

Product Name: **Digital Portable Radio**

Trade Mark: -

Model No.: **DH460 VHF**

Listed Model(s): **DH410 VHF**

Standard: **FCC CFR Title 47 Part 15 Subpart B**

Date of receipt of test sample.....: **May.12, 2023**

Date of testing.....: **May.12, 2023- May.30, 2023**

Date of issue.....: **Jun.14, 2024**

Result.....: **Pass**

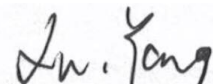
Compiled by
(Position-Printed name-Signature) : File administrators Caspar Chen



Supervised by
(Position-Printed name-Signature) : Project Engineer Caspar Chen



Approved by
(position+printed name+signature)....: RF Manager Xu Yang



Testing Laboratory Name: **Shenzhen Huatongwei International Inspection Co., Ltd.**

Address.....: **1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Gennyu Road, Tianliao,
Gongming, Shenzhen, China**

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The test report merely corresponds to the test sample.

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1. TEST STANDARDS AND REPORT VERSION

1.1. Test Standards

The tests were performed according to following standards:

[FCC CFR Title 47 Part 15 Subpart B](#) - Unintentional Radiators

[ANSI C63.4: 2014](#) – American National Standard for Methods of Measurement of Radio-Noise Emissions from Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40GHz

1.2. Report version information

| Revision No. | Date of issue | Description |
|--------------|---------------|-------------|
| N/A | 2024-06-14 | Original |
| | | |
| | | |
| | | |
| | | |

2. TEST DESCRIPTION

| Section | Test Item | Section in CFR 47 | Result ^{#1} | Test Engineer |
|---------|---------------------|-------------------|----------------------|---------------|
| 5.1 | Conducted Emissions | 15.107(a) | PASS | Yongjin Lin |
| 5.2 | Radiated Emissions | 15.109(a) | PASS | Yifan Wang |

Note:

#1: The test result does not include measurement uncertainty value

3. SUMMARY

3.1. Client Information

| | |
|---------------|--|
| Applicant: | SATELRADIO TELECOMUNICACAO LTDA |
| Address: | AV.FRANCISCO MATARAZZO, 1752, SALAS 516, AGUA BRANCA, SAO PAULO/SP, BRAZIL |
| Manufacturer: | SATELRADIO TELECOMUNICACAO LTDA |
| Address: | AV.FRANCISCO MATARAZZO, 1752, SALAS 516, AGUA BRANCA, SAO PAULO/SP, BRAZIL |

3.2. Product Description

| Main unit information: | |
|-----------------------------|---|
| Product Name: | Digital Portable Radio |
| Trade Mark: | - |
| Model No.: | DH460 VHF |
| Listed Model(s): | DH410 VHF |
| Power supply: | DC7.4V from battery |
| Hardware version: | DH400MB_A |
| Software version: | V1.06.06B03 |
| Accessory unit information: | |
| Battery information: | Model: AB591 DC7.4V 2500mAh/18.5Wh |
| Charger information: | Model: AC700 Input: 12V 1A |
| Adapter information: | Model: ES085H-X120100XYF 100-240V~50/60Hz 0.5A Output: 12.0V 1000mA |

Note:

The only difference between DH460 VHF and DH410 VHF is the presence or absence of screens and buttons. The schematic diagram and PCB layout are the same.

3.3. Testing Laboratory Information

| | | |
|----------------------|---|----------------------|
| Laboratory Name | Shenzhen Huatongwei International Inspection Co., Ltd. | |
| Laboratory Location | 1/F, Bldg 3, Hongfa Hi-tech Industrial Park, Genyu Road, Tianliao, Gongming, Shenzhen, China | |
| Contact information: | Tel: 86-755-26715499 E-mail: cs@szhtw.com.cn http://www.szhtw.com.cn | |
| Qualifications | Type | Accreditation Number |
| | FCC | 762235 |

4. TEST CONFIGURATION

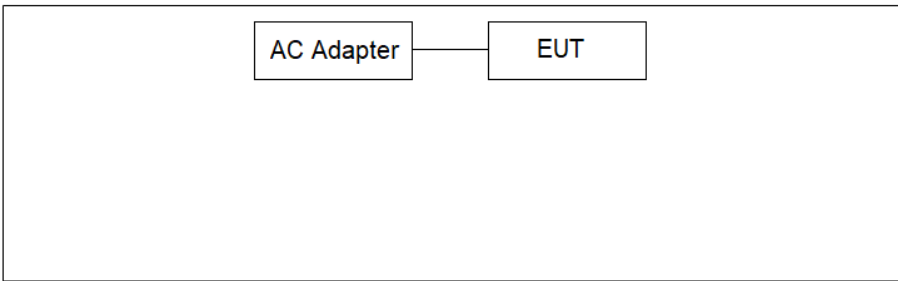

4.1. Descriptions of test mode

| 5. Test mode | Describe |
|---------------|---|
| Charging mode | Keep the EUT in charging mode, but the EUT shut down. |
| Receive mode | Keep the EUT in receiving mode, but don't charging. |

Pre-scan above all test mode, found below test mode which it was worse case mode, so only show the test data for worse case mode on the test report

| Test item | Test mode for worse case |
|---------------------|--------------------------|
| Conducted emissions | Charging mode |
| Radiated emissions | Charging mode |

5.1. Configuration of Tested System

| Test mode | Configuration |
|----------------|--|
| Charging mode |  <pre>graph LR; AC[AC Adapter] --- EUT[EUT]</pre> |
| Receiving mode |  <pre>graph LR; EUT[EUT]</pre> |

5.2. Support unit used in test configuration

The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application.

The following peripheral devices and interface cables were connected during the measurement:

| Whether support unit is used? | | | |
|-------------------------------|-----------|------------|-----------|
| ✓ No | | | |
| Item | Equipment | Trade Name | Model No. |
| 1 | | | |
| 2 | | | |
| 3 | | | |

5.3. Environmental conditions

During the measurement the environmental conditions were within the listed ranges:

| | |
|--------------------|-------------|
| Temperature: | 15~35°C |
| Relative Humidity: | 30~60 % |
| Air Pressure: | 950~1050mba |

5.4. Statement of the measurement uncertainty

| No. | Test Items | Measurement Uncertainty |
|-----|-----------------------|--|
| 1 | AC Conducted Emission | 3.21dB |
| 2 | Radiated Emission | 4.54dB for 30MHz-1GHz 5.10dB for above 1GHz |

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of $k=1.96$.

5.5. Equipments Used during the Test

● Conducted Emission

| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|---------------------|--------------------|---------------|----------------|---------------|---------------------------|---------------------------|
| ● | Shielded Room | Albatross projects | HTWE0114 | N/A | N/A | 2018/09/28 | 2023/09/27 |
| ● | EMI Test Receiver | R&S | HTWE0111 | ESCI | 101247 | 2022/08/30 | 2023/08/29 |
| ● | Artificial Mains | SCHWARZBECK | HTWE0113 | NNLK 8121 | 573 | 2022/08/29 | 2023/08/28 |
| ● | Pulse Limiter | R&S | HTWE0193 | ESH3-Z2 | 101447 | 2022/08/29 | 2023/08/28 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0113-02 | ENVIROFLEX 142 | EF-NM-BNCM-2M | 2022/09/17 | 2023/09/16 |
| ● | Test Software | R&S | N/A | ES-K1 | N/A | N/A | N/A |

● Radiated Emission-Below 1GHz

| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|-------------------------|--------------------|---------------|-------------|------------|---------------------------|---------------------------|
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0127 | SAC-3m-02 | C11121 | 2018/09/30 | 2023/09/29 |
| ● | EMI Test Receiver | R&S | HTWE0099 | ESCI | 100900 | 2022/08/30 | 2023/08/29 |
| ● | Ultra-Broadband Antenna | SCHWARZBECK | HTWE0547 | VULB9163 | 945 | 2022/05/23 | 2025/05/22 |
| ● | Pre-Amplifier | SCHWARZBECK | HTWE0295 | BBV 9742 | N/A | 2022/11/04 | 2023/11/03 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0062-01 | N/A | N/A | 2023/02/24 | 2024/02/23 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0062-02 | SUCOFLEX104 | 501184/4 | 2023/02/24 | 2024/02/23 |
| ● | Test Software | R&S | N/A | ES-K1 | N/A | N/A | N/A |

● Radiated emission-Above 1GHz

| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|-------------------------|--------------------|---------------|-----------|------------|---------------------------|---------------------------|
| ● | Semi-Anechoic Chamber | Albatross projects | HTWE0122 | SAC-3m-01 | C11121 | 2018/09/27 | 2023/09/26 |
| ● | Spectrum Analyzer | R&S | HTWE0098 | FSP40 | 100597 | 2022/08/25 | 2023/08/24 |
| ● | Horn Antenna | ETS | HTWE0548 | 3117 | 240120 | 2022/05/20 | 2025/05/19 |
| ● | Broadband Pre-amplifier | SCHWARZBECK | HTWE0201 | BBV 9718 | 9718-248 | 2023/02/27 | 2024/02/26 |
| ● | RF Connection Cable | HUBER+SUHNER | HTWE0126-01 | RE-7-FH | N/A | 2023/02/27 | 2024/02/26 |
| ● | Test Software | Audix | N/A | E3 | N/A | N/A | N/A |

● Auxiliary Equipment

| Used | Test Equipment | Manufacturer | Equipment No. | Model No. | Serial No. | Last Cal. Date (YY-MM-DD) | Next Cal. Date (YY-MM-DD) |
|------|---------------------------------------|--------------|---------------|-----------|------------|---------------------------|---------------------------|
| ○ | Radio communication tester | R&S | HTWE0287 | CMW500 | 137688-Lv | 2022/08/25 | 2023/08/24 |
| ○ | RF Communication Test Set | HP | HTWE0038 | 8920A | 3813A10206 | 2022/08/25 | 2023/08/24 |
| ○ | Digital intercom communication tester | Aeroflex | HTWE0255 | 3920B | 1001682041 | 2022/08/25 | 2023/08/24 |

6. TEST CONDITIONS AND RESULTS

6.1. Conducted Emissions

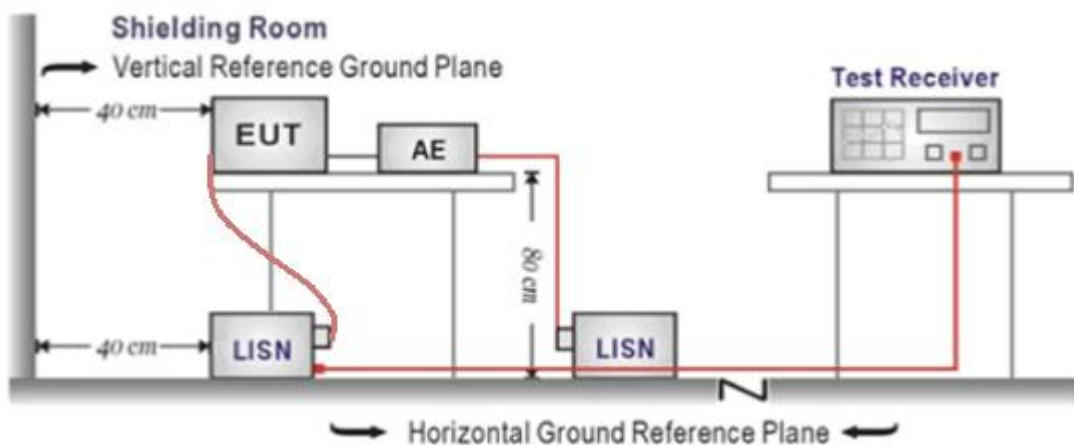
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.107:

| Frequency range (MHz) | Limit (dBuV) | |
|-----------------------|--------------|-----------|
| | Quasi-peak | Average |
| 0.15-0.5 | 66 to 56* | 56 to 46* |
| 0.5-5 | 56 | 46 |
| 5-30 | 60 | 50 |

* Decreases with the logarithm of the frequency.

TEST CONFIGURATION



TEST PROCEDURE

1. The EUT was setup according to ANSI C63.4:2014
2. The EUT was placed on a plat form of nominal size, 1 m by 1.5 m, raised 80 cm above the conducting ground plane. The vertical conducting plane was located 40 cm to the rear of the EUT. All other surfaces of EUT were at least 80 cm from any other grounded conducting surface.
3. The EUT and simulators are connected to the main power through a line impedance stabilization network (LISN). The LISN provides a 50ohm / 50uH coupling impedance for the measuring equipment.
4. The peripheral devices are also connected to the main power through a LISN. (Please refer to the block diagram of the test setup and photographs)
5. Each current-carrying conductor of the EUT power cord, except the ground (safety) conductor, was individually connected through a LISN to the input power source.
6. The excess length of the power cord between the EUT and the LISN receptacle were folded back and forth at the center of the lead to form a bundle not exceeding 40 cm in length.
7. Conducted emissions were investigated over the frequency range from 0.15MHz to 30MHz using a receiver bandwidth of 9 kHz.
8. During the above scans, the emissions were maximized by cable manipulation.

TEST MODE:

Please refer to the clause 3.3

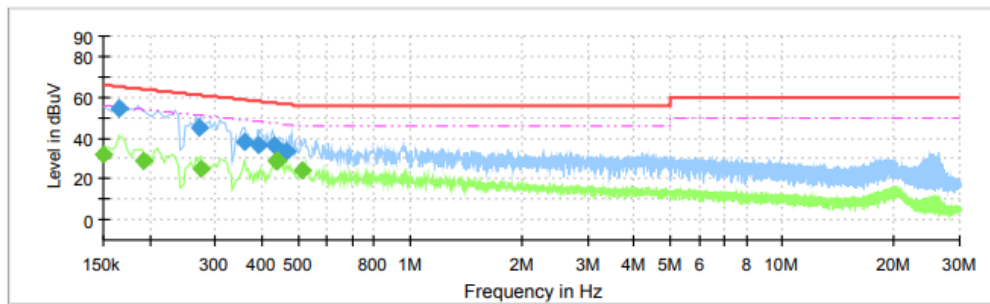
TEST RESULTS

☒ Passed ☐ Not Applicable

Model: DH460 VHF

Test Line:

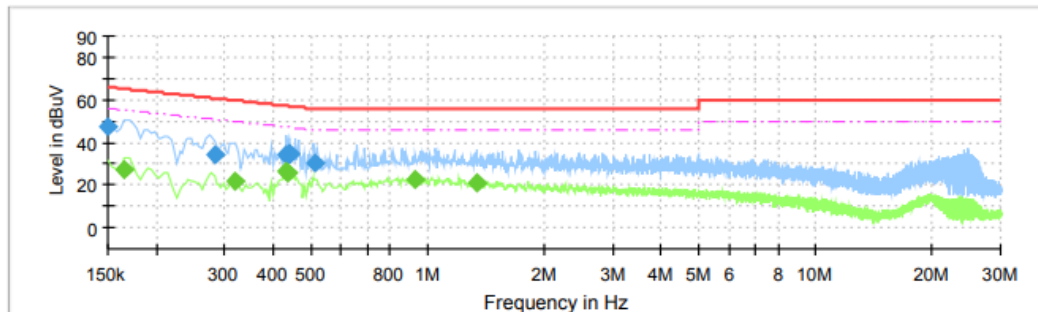
L

**Final Result**

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.150000 | --- | 32.06 | 56.00 | 23.94 | L1 | 10.2 |
| 0.166000 | 53.99 | --- | 65.16 | 11.17 | L1 | 10.2 |
| 0.191500 | --- | 28.99 | 53.97 | 24.98 | L1 | 10.2 |
| 0.271500 | 44.79 | --- | 61.07 | 16.28 | L1 | 10.2 |
| 0.275500 | --- | 24.92 | 50.95 | 26.03 | L1 | 10.2 |
| 0.359500 | 38.33 | --- | 58.74 | 20.41 | L1 | 10.2 |
| 0.391500 | 36.39 | --- | 58.03 | 21.64 | L1 | 10.2 |
| 0.431500 | 36.66 | --- | 57.22 | 20.56 | L1 | 10.2 |
| 0.435500 | --- | 28.51 | 47.15 | 18.64 | L1 | 10.2 |
| 0.439500 | --- | 28.54 | 47.07 | 18.54 | L1 | 10.2 |
| 0.467500 | 33.59 | --- | 56.56 | 22.97 | L1 | 10.2 |
| 0.511500 | --- | 23.72 | 46.00 | 22.28 | L1 | 10.2 |

Test Line:

N

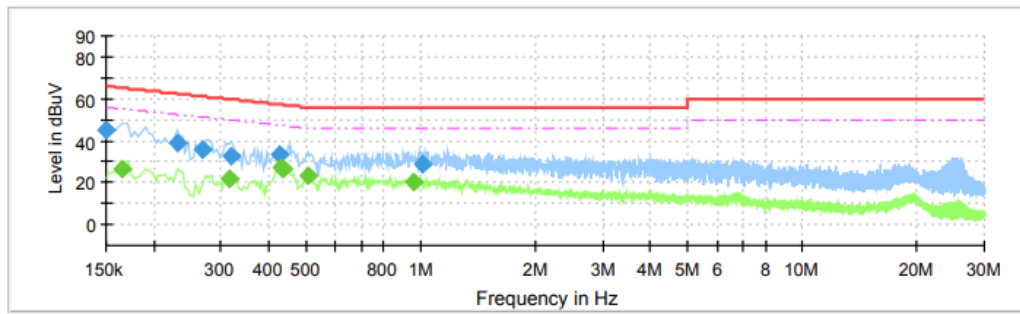
**Final Result**

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.150000 | 47.02 | --- | 66.00 | 18.98 | N | 10.2 |
| 0.166000 | --- | 27.39 | 55.16 | 27.77 | N | 10.2 |
| 0.283500 | 34.24 | --- | 60.71 | 26.47 | N | 10.2 |
| 0.319500 | --- | 21.79 | 49.72 | 27.93 | N | 10.2 |
| 0.431500 | 34.50 | --- | 57.22 | 22.72 | N | 10.2 |
| 0.431500 | --- | 26.46 | 47.22 | 20.76 | N | 10.2 |
| 0.435500 | --- | 26.03 | 47.15 | 21.11 | N | 10.2 |
| 0.439500 | 35.19 | --- | 57.07 | 21.88 | N | 10.2 |
| 0.443500 | 34.31 | --- | 57.00 | 22.68 | N | 10.2 |
| 0.511500 | 30.09 | --- | 56.00 | 25.91 | N | 10.2 |
| 0.931500 | --- | 22.47 | 46.00 | 23.53 | N | 10.3 |
| 1.335500 | --- | 21.14 | 46.00 | 24.86 | N | 10.3 |

Model: DH410 VHF

Test Line:

L

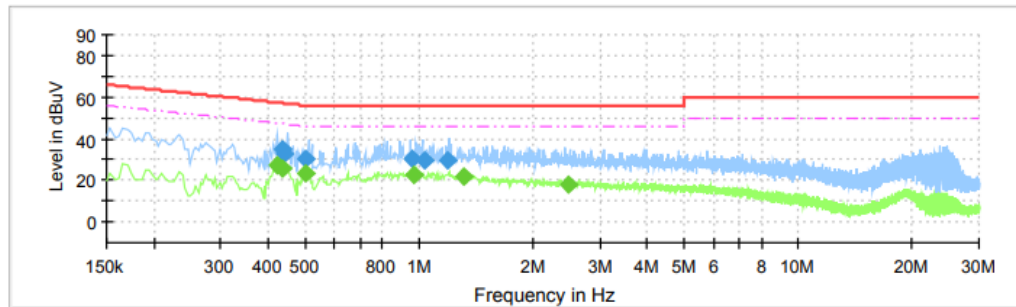


Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.150000 | 45.10 | --- | 66.00 | 20.90 | L1 | 10.2 |
| 0.166000 | --- | 26.08 | 55.16 | 29.08 | L1 | 10.2 |
| 0.231500 | 38.76 | --- | 62.40 | 23.63 | L1 | 10.2 |
| 0.267500 | 35.58 | --- | 61.20 | 25.61 | L1 | 10.2 |
| 0.315500 | --- | 21.98 | 49.82 | 27.85 | L1 | 10.2 |
| 0.319500 | 32.79 | --- | 59.72 | 26.93 | L1 | 10.2 |
| 0.427500 | 33.74 | --- | 57.30 | 23.56 | L1 | 10.2 |
| 0.431500 | --- | 27.11 | 47.22 | 20.12 | L1 | 10.2 |
| 0.435500 | --- | 26.62 | 47.15 | 20.53 | L1 | 10.2 |
| 0.507500 | --- | 23.06 | 46.00 | 22.94 | L1 | 10.2 |
| 0.959500 | --- | 20.14 | 46.00 | 25.86 | L1 | 10.3 |
| 1.007500 | 28.41 | --- | 56.00 | 27.59 | L1 | 10.3 |

Test Line:

N



Final Result

| Frequency (MHz) | QuasiPeak (dBuV) | CAverage (dBuV) | Limit (dBuV) | Margin (dB) | Line | Corr. (dB) |
|-----------------|------------------|-----------------|--------------|-------------|------|------------|
| 0.423500 | --- | 27.00 | 47.38 | 20.38 | N | 10.2 |
| 0.435500 | --- | 25.32 | 47.15 | 21.82 | N | 10.2 |
| 0.435500 | 35.19 | --- | 57.15 | 21.95 | N | 10.2 |
| 0.443500 | 33.00 | --- | 57.00 | 23.99 | N | 10.2 |
| 0.503500 | --- | 23.34 | 46.00 | 22.66 | N | 10.2 |
| 0.503500 | 30.50 | --- | 56.00 | 25.50 | N | 10.2 |
| 0.955500 | 29.93 | --- | 56.00 | 26.07 | N | 10.3 |
| 0.971500 | --- | 22.79 | 46.00 | 23.21 | N | 10.3 |
| 1.035500 | 29.29 | --- | 56.00 | 26.71 | N | 10.3 |
| 1.187500 | 29.68 | --- | 56.00 | 26.32 | N | 10.3 |
| 1.308500 | --- | 21.69 | 46.00 | 24.31 | N | 10.3 |
| 2.475500 | --- | 18.19 | 46.00 | 27.81 | N | 10.3 |

6.2. Radiated Emissions

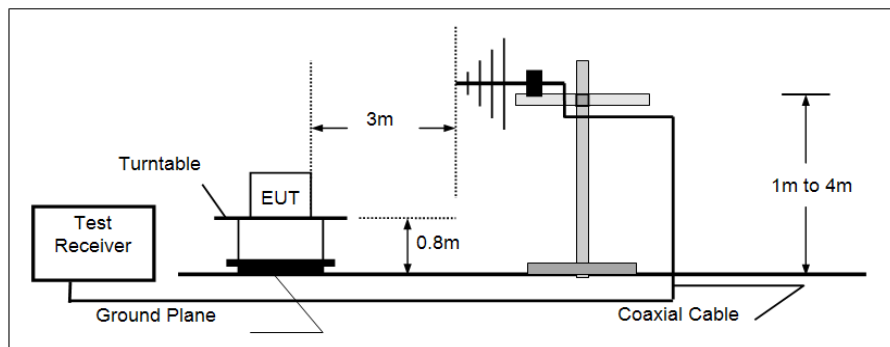
LIMIT

FCC CFR Title 47 Part 15 Subpart B Section 15.109

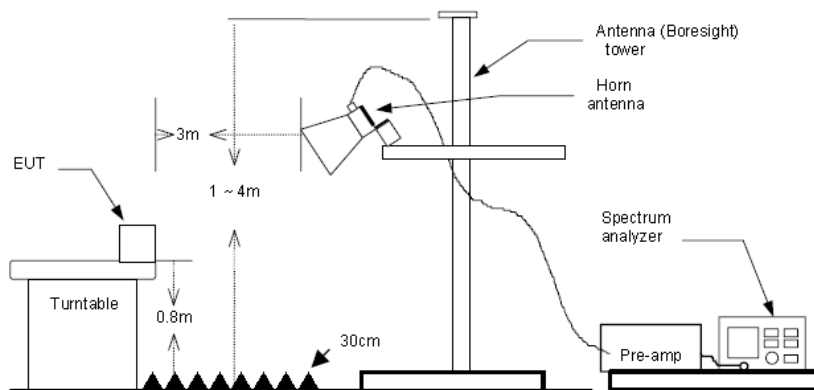
| Frequency | Limit (dBuV/m @3m) | Value |
|---------------|--------------------|------------|
| 30MHz-88MHz | 40.00 | Quasi-peak |
| 88MHz-216MHz | 43.50 | Quasi-peak |
| 216MHz-960MHz | 46.00 | Quasi-peak |
| 960MHz-1GHz | 54.00 | Quasi-peak |
| Above 1GHz | 54.00 | Average |
| | 74.00 | Peak |

TEST CONFIGURATION

➤ 30MHz ~ 1GHz



➤ Above 1GHz



TEST PROCEDURE

1. The EUT was tested according to ANSI C63.4:2014.
2. The EUT is placed on a turn table which is 0.8 meter above ground.
3. The turn table is rotated 360 degrees to determine the position of the maximum emission level.
4. The EUT was positioned such that the distance from antenna to the EUT was 3 meters.
5. The antenna is scanned from 1 meter to 4 meters to find out the maximum emission level. This is repeated for both horizontal and vertical polarization of the antenna.
6. Use the following spectrum analyzer settings
 - (1) Span shall wide enough to fully capture the emission being measured;
 - (2) Below 1GHz,
RBW=120KHz, VBW=300KHz, Sweep=auto, Detector function=peak, Trace=max hold;
If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.
 - (3) From 1GHz to 5th harmonic, RBW=1MHz, VBW=3MHz

TEST MODE:

Please refer to the clause 3.3

TEST RESULTS

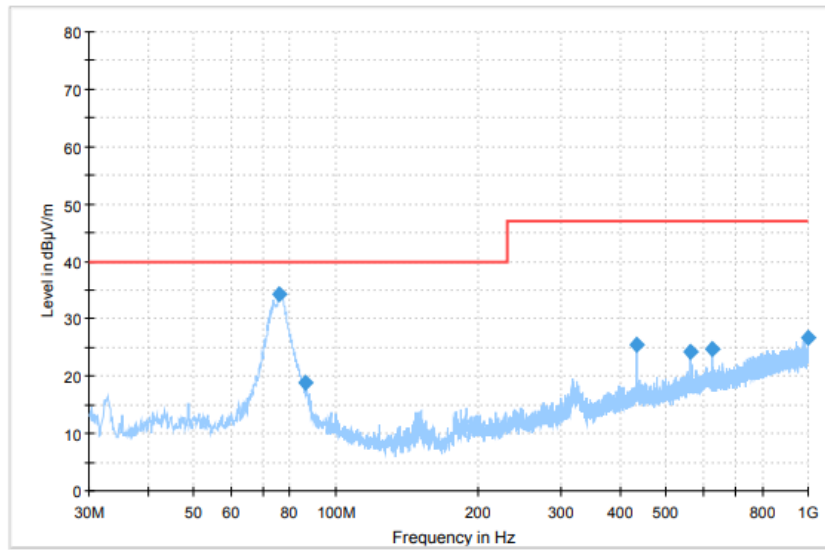
☒ **Passed** ☐ **Not Applicable**

Note: Final Level = Receiver Read level + Antenna Factor + Cable Loss – Preamplifier Factor
The emission levels of frequency above 6GHz are very lower than limit and not show in test report.

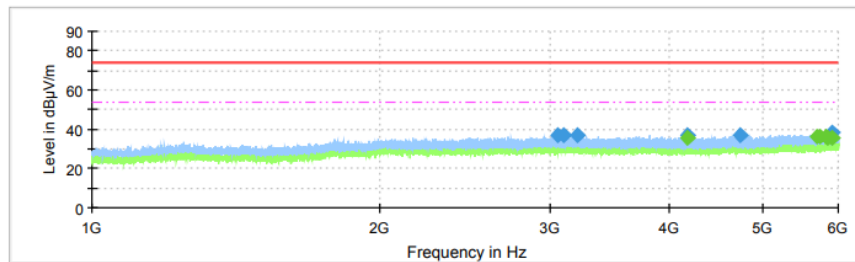
Model: DH460 VHF

Polarization:

Horizontal

**Final Result**

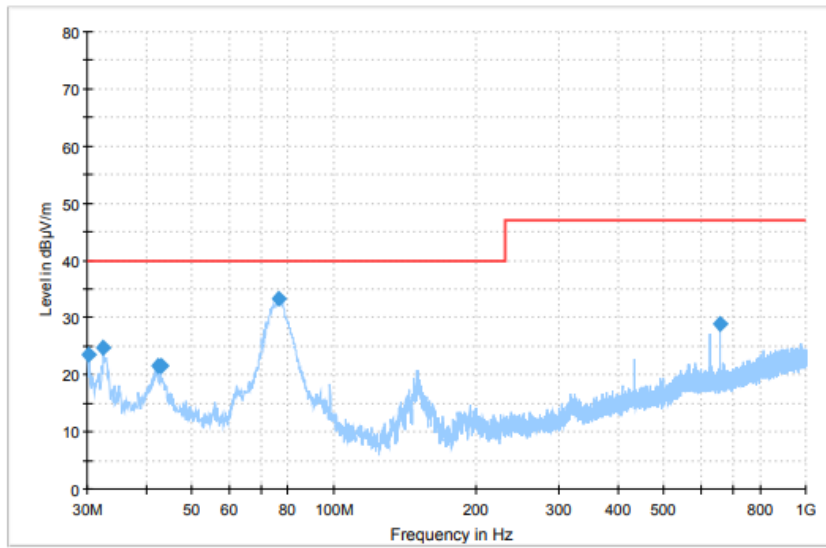
| Frequency (MHz) | MaxPeak (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 75.953750 | 34.35 | 40.00 | 5.65 | 300.0 | H | 162.0 | -14.0 |
| 86.138750 | 18.84 | 40.00 | 21.16 | 300.0 | H | 162.0 | -12.9 |
| 433.883750 | 25.42 | 47.00 | 21.58 | 100.0 | H | 144.0 | -2.5 |
| 562.651250 | 24.23 | 47.00 | 22.77 | 100.0 | H | 313.0 | 0.2 |
| 625.095000 | 24.62 | 47.00 | 22.38 | 100.0 | H | 162.0 | 1.0 |
| 999.030000 | 26.60 | 47.00 | 20.40 | 100.0 | H | 186.0 | 5.0 |

**Final Result**

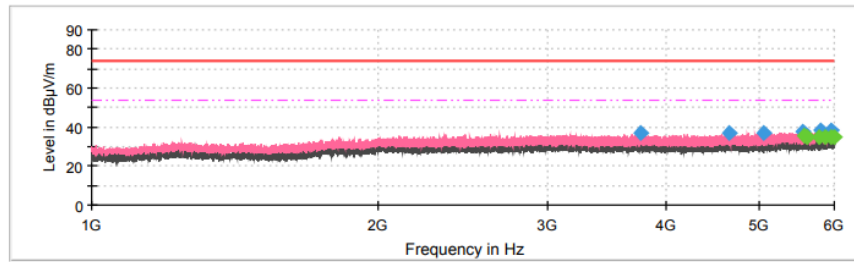
| Frequency (MHz) | MaxPeak (dBuV/m) | Average (dBuV/m) | Limit (dBuV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 3055.156250 | 36.87 | --- | 74.00 | 37.13 | 150.0 | H | 4.0 | -4.2 |
| 3101.250000 | 36.66 | --- | 74.00 | 37.34 | 150.0 | H | 324.0 | -4.1 |
| 3209.531250 | 36.70 | --- | 74.00 | 37.30 | 150.0 | H | 91.0 | -4.2 |
| 4173.593750 | --- | 35.86 | 54.00 | 18.14 | 150.0 | H | 74.0 | -2.6 |
| 4173.593750 | 37.14 | --- | 74.00 | 36.86 | 150.0 | H | 74.0 | -2.6 |
| 4740.156250 | 37.16 | --- | 74.00 | 36.84 | 150.0 | H | 58.0 | -1.4 |
| 5709.062500 | --- | 36.00 | 54.00 | 18.00 | 150.0 | H | 41.0 | 0.5 |
| 5738.437500 | --- | 36.42 | 54.00 | 17.58 | 150.0 | H | 333.0 | 0.7 |
| 5835.000000 | --- | 36.00 | 54.00 | 18.00 | 150.0 | H | 41.0 | 1.0 |
| 5855.000000 | --- | 35.61 | 54.00 | 18.39 | 150.0 | H | 41.0 | 1.0 |
| 5905.312500 | 38.17 | --- | 74.00 | 35.83 | 150.0 | H | 0.0 | 1.2 |
| 5905.312500 | --- | 35.56 | 54.00 | 18.44 | 150.0 | H | 0.0 | 1.2 |

Polarization:

Vertical

**Final Result**

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 30.242500 | 23.44 | 40.00 | 16.56 | 100.0 | V | 16.0 | -11.3 |
| 32.546250 | 24.64 | 40.00 | 15.36 | 100.0 | V | 148.0 | -10.9 |
| 42.367500 | 21.59 | 40.00 | 18.41 | 100.0 | V | 24.0 | -9.0 |
| 42.973750 | 21.54 | 40.00 | 18.46 | 100.0 | V | 352.0 | -9.0 |
| 76.196250 | 33.25 | 40.00 | 6.75 | 100.0 | V | 258.0 | -14.0 |
| 660.015000 | 28.88 | 47.00 | 18.12 | 100.0 | V | 172.0 | 1.1 |

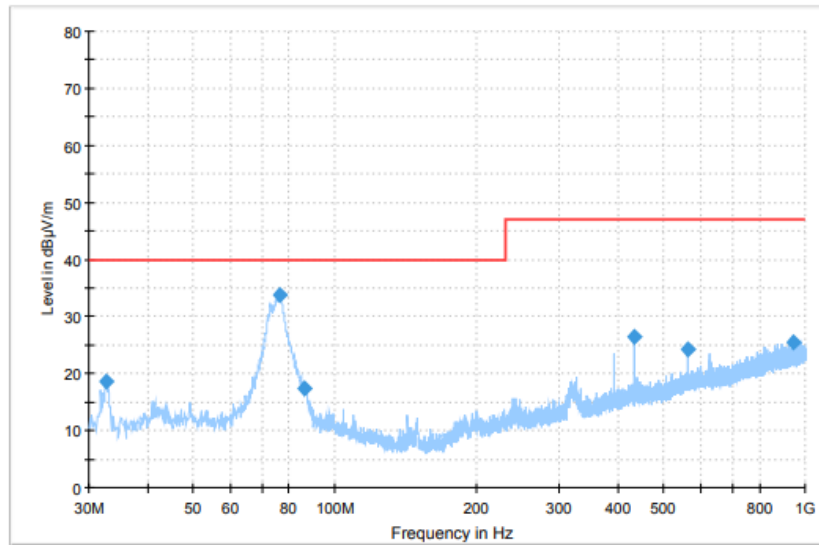
**Final Result**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 3756.406250 | 36.86 | --- | 74.00 | 37.14 | 150.0 | V | 0.0 | -3.1 |
| 4654.375000 | 37.04 | --- | 74.00 | 36.96 | 150.0 | V | 241.0 | -1.5 |
| 5064.218750 | 36.76 | --- | 74.00 | 37.24 | 150.0 | V | 222.0 | -1.1 |
| 5568.593750 | 37.34 | --- | 74.00 | 36.66 | 150.0 | V | 196.0 | 0.1 |
| 5586.250000 | --- | 35.36 | 54.00 | 18.64 | 150.0 | V | 60.0 | 0.2 |
| 5627.343750 | --- | 35.11 | 54.00 | 18.89 | 150.0 | V | 258.0 | 0.3 |
| 5777.343750 | --- | 34.82 | 54.00 | 19.18 | 150.0 | V | 274.0 | 0.8 |
| 5809.531250 | 38.12 | --- | 74.00 | 35.88 | 150.0 | V | 2.0 | 0.9 |
| 5862.343750 | --- | 34.75 | 54.00 | 19.25 | 150.0 | V | 172.0 | 1.0 |
| 5965.937500 | --- | 34.89 | 54.00 | 19.11 | 150.0 | V | 274.0 | 1.2 |
| 5967.343750 | 38.27 | --- | 74.00 | 35.73 | 150.0 | V | 24.0 | 1.2 |
| 5991.718750 | --- | 34.93 | 54.00 | 19.07 | 150.0 | V | 141.0 | 1.2 |

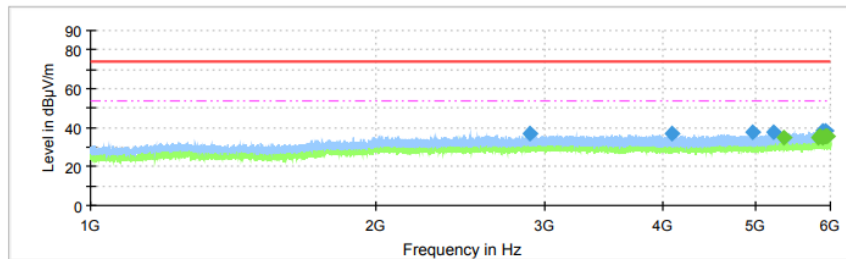
Model: DH410 VHF

Polarization:

Horizontal

**Final Result**

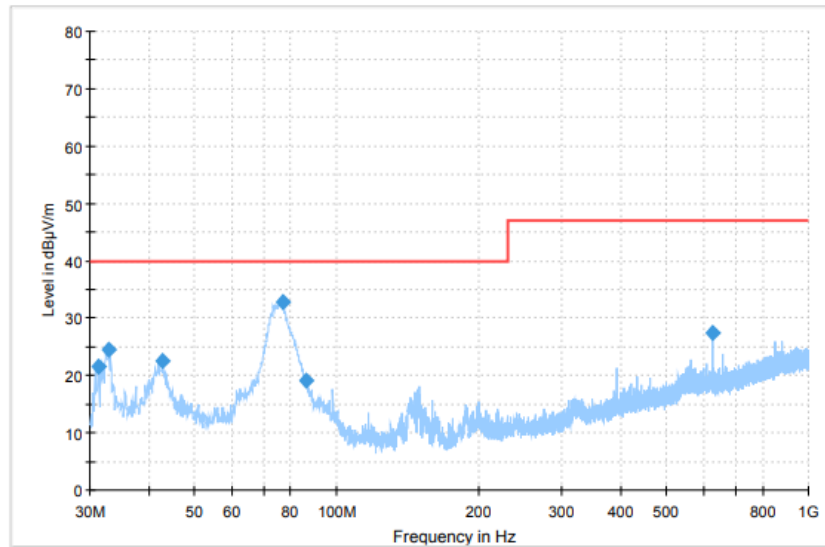
| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 32.667500 | 18.49 | 40.00 | 21.51 | 300.0 | H | 131.0 | -10.8 |
| 76.317500 | 33.67 | 40.00 | 6.33 | 300.0 | H | 170.0 | -14.1 |
| 86.138750 | 17.49 | 40.00 | 22.51 | 300.0 | H | 182.0 | -12.9 |
| 433.883750 | 26.31 | 47.00 | 20.69 | 100.0 | H | 136.0 | -2.5 |
| 562.530000 | 24.33 | 47.00 | 22.67 | 100.0 | H | 174.0 | 0.2 |
| 941.921250 | 25.50 | 47.00 | 21.50 | 300.0 | H | 291.0 | 4.5 |

**Final Result**

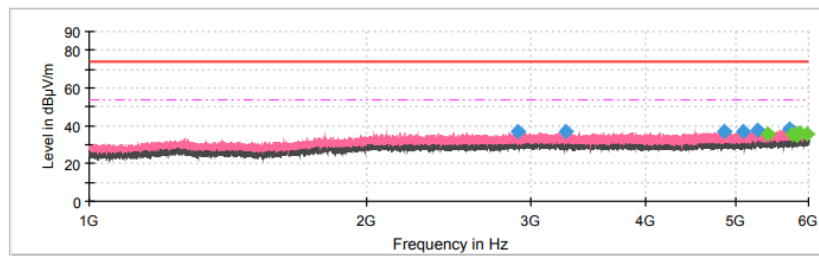
| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2894.062500 | 36.68 | --- | 74.00 | 37.32 | 150.0 | H | 355.0 | -4.8 |
| 4081.875000 | 36.74 | --- | 74.00 | 37.26 | 150.0 | H | 109.0 | -2.6 |
| 4977.187500 | 37.46 | --- | 74.00 | 36.54 | 150.0 | H | 180.0 | -1.3 |
| 5235.781250 | 37.70 | --- | 74.00 | 36.30 | 150.0 | H | 297.0 | -0.3 |
| 5362.031250 | --- | 34.65 | 54.00 | 19.35 | 150.0 | H | 173.0 | 0.0 |
| 5822.656250 | --- | 35.21 | 54.00 | 18.79 | 150.0 | H | 0.0 | 0.9 |
| 5840.468750 | --- | 35.26 | 54.00 | 18.74 | 150.0 | H | 156.0 | 1.0 |
| 5884.375000 | 38.71 | --- | 74.00 | 35.29 | 150.0 | H | 336.0 | 1.1 |
| 5884.375000 | --- | 35.19 | 54.00 | 18.81 | 150.0 | H | 336.0 | 1.1 |
| 5936.250000 | 38.56 | --- | 74.00 | 35.44 | 150.0 | H | 142.0 | 1.2 |
| 5936.250000 | --- | 35.93 | 54.00 | 18.07 | 150.0 | H | 142.0 | 1.2 |
| 5953.750000 | --- | 35.64 | 54.00 | 18.36 | 150.0 | H | 307.0 | 1.2 |

Polarization:

Vertical

**Final Result**

| Frequency (MHz) | MaxPeak (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 31.212500 | 21.63 | 40.00 | 18.37 | 100.0 | V | 98.0 | -11.2 |
| 32.910000 | 24.40 | 40.00 | 15.60 | 100.0 | V | 88.0 | -10.8 |
| 42.852500 | 22.58 | 40.00 | 17.42 | 100.0 | V | 240.0 | -9.0 |
| 76.802500 | 32.87 | 40.00 | 7.13 | 100.0 | V | 256.0 | -14.2 |
| 86.138750 | 19.04 | 40.00 | 20.96 | 100.0 | V | 271.0 | -12.9 |
| 625.095000 | 27.36 | 47.00 | 19.64 | 100.0 | V | 77.0 | 1.0 |

**Final Result**

| Frequency (MHz) | MaxPeak (dBµV/m) | Average (dBµV/m) | Limit (dBµV/m) | Margin (dB) | Height (cm) | Pol | Azimuth (deg) | Corr. (dB/m) |
|-----------------|------------------|------------------|----------------|-------------|-------------|-----|---------------|--------------|
| 2913.125000 | 36.63 | --- | 74.00 | 37.37 | 150.0 | V | 247.0 | -4.7 |
| 3282.656250 | 36.89 | --- | 74.00 | 37.11 | 150.0 | V | 333.0 | -4.1 |
| 4865.781250 | 36.69 | --- | 74.00 | 37.31 | 150.0 | V | 111.0 | -1.4 |
| 5103.125000 | 37.22 | --- | 74.00 | 36.78 | 150.0 | V | 111.0 | -0.9 |
| 5295.156250 | 37.47 | --- | 74.00 | 36.53 | 150.0 | V | 340.0 | -0.1 |
| 5424.218750 | --- | 35.27 | 54.00 | 18.73 | 150.0 | V | 0.0 | 0.1 |
| 5733.750000 | 38.16 | --- | 74.00 | 35.84 | 150.0 | V | 278.0 | 0.6 |
| 5767.343750 | --- | 35.36 | 54.00 | 18.64 | 150.0 | V | 257.0 | 0.8 |
| 5824.218750 | --- | 35.12 | 54.00 | 18.88 | 150.0 | V | 118.0 | 0.9 |
| 5841.250000 | --- | 35.78 | 54.00 | 18.22 | 150.0 | V | 202.0 | 1.0 |
| 5866.875000 | --- | 36.29 | 54.00 | 17.71 | 150.0 | V | 58.0 | 1.1 |
| 5987.031250 | --- | 35.26 | 54.00 | 18.74 | 150.0 | V | 29.0 | 1.2 |

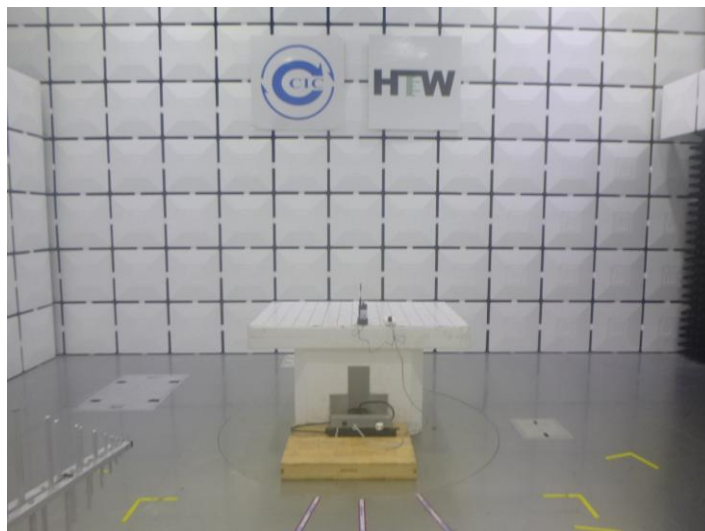
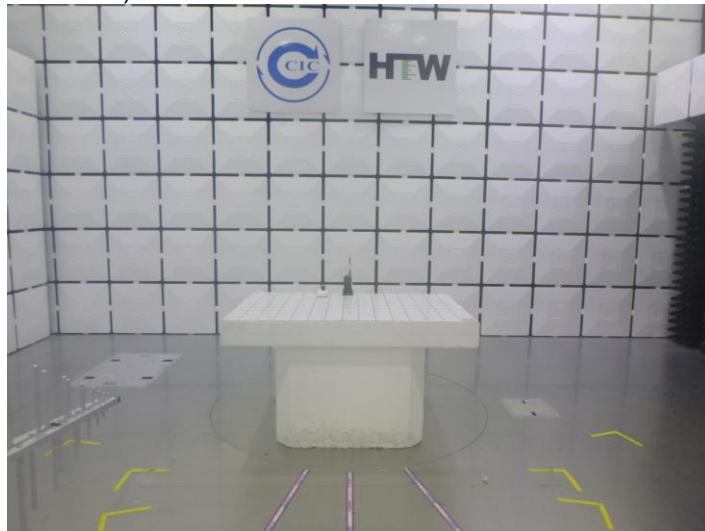
7. TEST SETUP PHOTOS OF THE EUT

Model: DH460 VHF

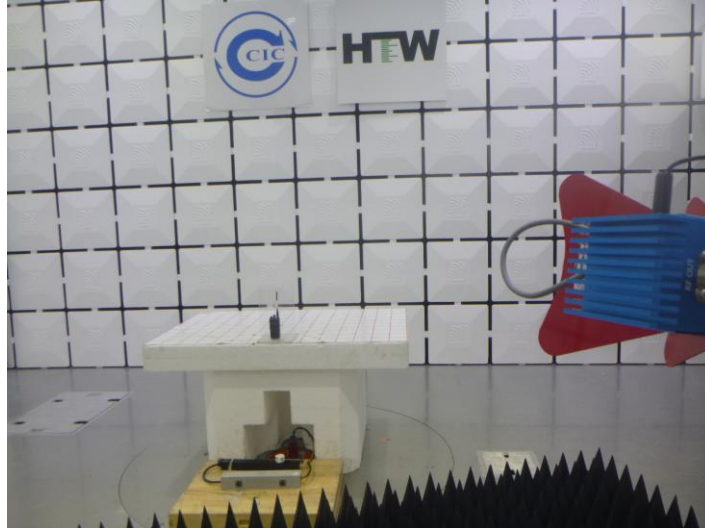
Conducted Emissions (AC Mains)

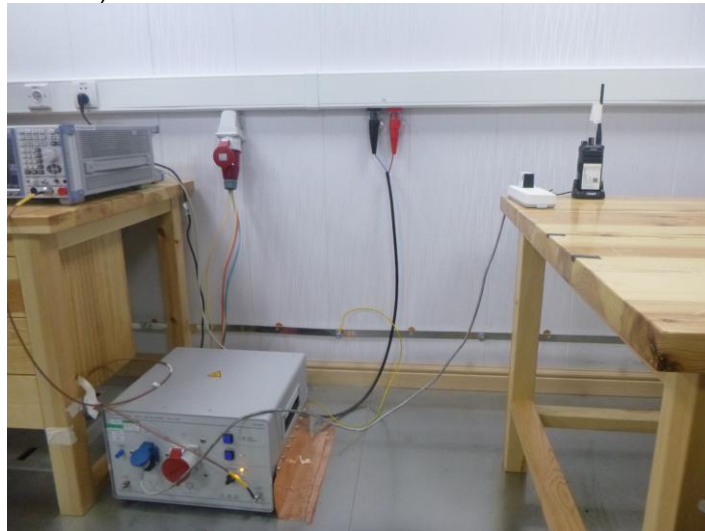
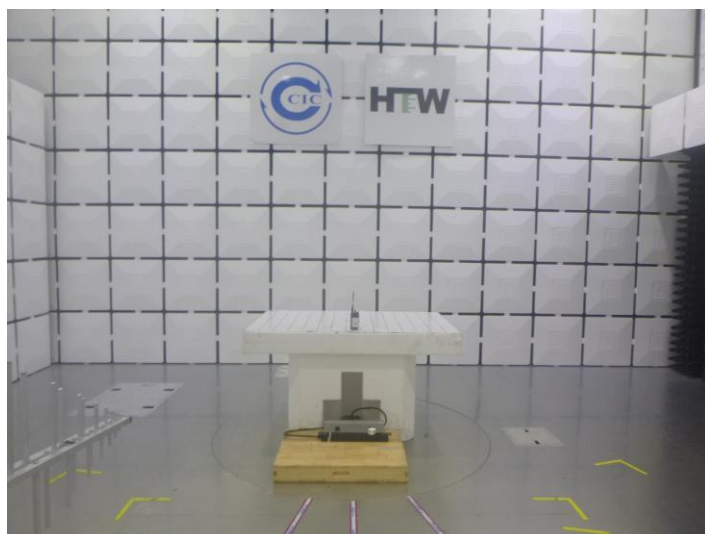
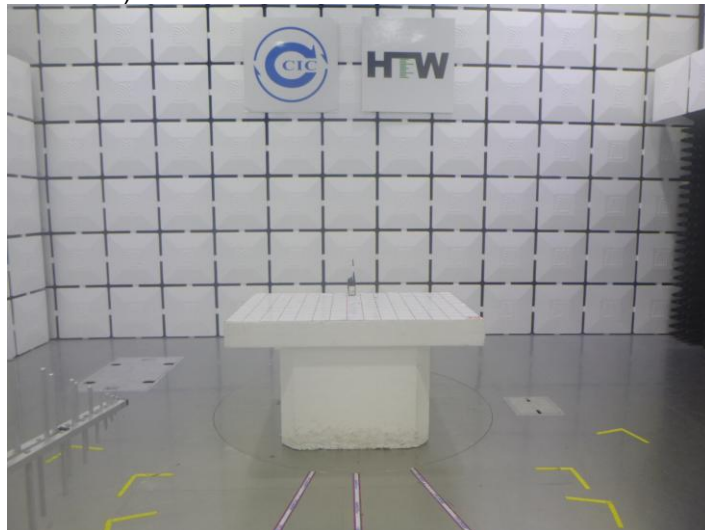


Radiated Emissions (30MHz-1GHz)

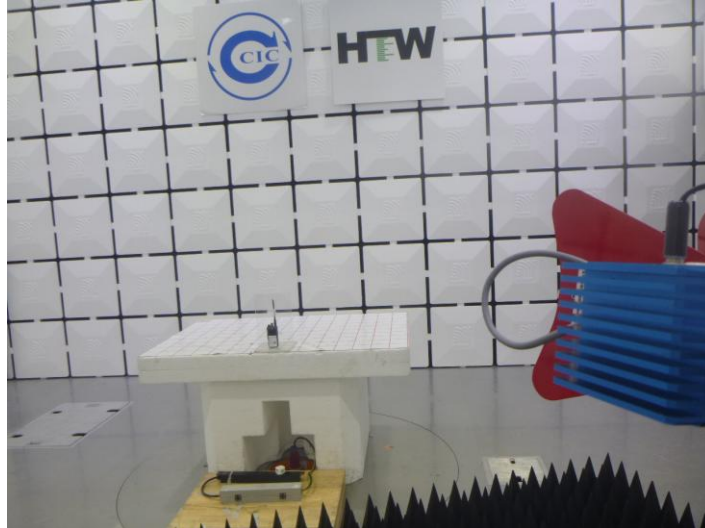


Radiated Emissions (Above 1GHz)



Model: DH410 VHF**Conducted Emissions (AC Mains)****Radiated Emissions (30MHz-1GHz)**

Radiated Emissions (Above 1GHz)



8. EXTERNAL AND INTERNAL PHOTOS OF THE EUT

Refer to the test report No.: CHTW24060034

-----End of Report-----