FCC EMC TEST REPORT

Name of Sample:

Model of Sample:

Applicant:

Issued Date:

Mobile Cellular Phone

<u>XT2407-2</u>

Motorola Mobility LLC

2024-05-08



ADR TEST AND CERTIFICATION CENTER

Motorola Mobility LLC, a Lenovo Company

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| Name of Client | Motorola Mobility LLC | | | |
|---------------------|---|-----------------|----------------------------------|--|
| Address of Client | 222 W, Merchandise Mart Plaza, Chicago IL 60654 USA | | | |
| Trademark | Motorola | Type Name or ID | IHDT56AS3 | |
| Applicant No. | RF177277 RF177579 | Sample No. | SN: NWRL230113 SN: NWRL2H0105 | |
| Delivering Date | 2024-04-22 | Test Date(s) | 2024-04-26 to 2024-04-28 | |
| Sample Illustration | None | | | |
| Standard | 47 CFR FCC PART 15 Subpart B ANSI C63.4-2014 | | | |
| Conclusion | PASS | | | |
| Remarks | None | | | |

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| REPORT NO. | VERSION | DESCRIPTION | ISSUED DATE |
|--------------|---------|-------------------------|-------------|
| 24ADRTCC5026 | Rev. 01 | Initial issue of report | 2024-05-08 |
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1. Information Of Equipment Under Test(EUT)

| Product Name: | | Mobile Cellular Phone | |
|-----------------------|-------------------------|--|--|
| Brand Name: | | Motorola | |
| Model Name: | | XT2407-2 | |
| FCC ID: | | IHDT56AS3 | |
| Software Version: | | Sample 1(U3UW34.38), Sample 2 (U3UW34.48) | |
| Hardware Version: | | DVT2 | |
| | | Conduction: | |
| | | 358858730015574 / 358858730015582 for Sample 1 | |
| IMEL Codo: | | 358858730026415 / 358858730026423 for Sample 2 | |
| | | Radiation: | |
| | | 358858730015574 / 358858730015582 for Sample 1 | |
| | | 358858730026415 / 358858730026423 for Sample 2 | |
| Supports Radio applic | ation in this standard: | | |
| GSM/WCDMA/LTE/5G | NR/WLAN/BLUETOOTH/ | GNSS/NFC/WPT | |
| Accessory | | | |
| Product | Brand | model | |
| AC Adapter 1(US) | Motorola (Chenyang) | MC-681N | |
| AC Adapter 1(EU) | Motorola (Chenyang) | MC-682N | |
| AC Adapter 1(UK) | Motorola (Chenyang) | MC-683N | |
| AC Adapter 1(AU) | Motorola (Chenyang) | MC-685N | |
| AC Adapter 1(AR) | Motorola (Chenyang) | MC-686N | |
| AC Adapter 1(CHILE) | Motorola (Chenyang) | MC-689N | |
| AC Adapter 2(US) | Motorola (Acbel) | MC-681N | |
| AC Adapter 2(EU) | Motorola (Acbel) | MC-682N | |
| AC Adapter 2(UK) | Motorola (Acbel) | MC-683N | |
| AC Adapter 2(AU) | Motorola (Acbel) | MC-685N | |
| AC Adapter 2(AR) | Motorola (Acbel) | MC-686N | |
| Battery 1 | Motorola (SUNWODA) | QR50 | |
| Battery 2 | Motorola (ATL) | QR50 | |
| USB Cable 1 | Luxshare | SC18E08104 | |
| USB Cable 2 | Saibao | SC18D71644 | |

Remark:

1. The EUT's information was declared by manufacturer. Please refer to the manufacturer's specifications or user's manual for more detailed description.

- This report includes the first and second source sample. The first source sample (SN: NWRL230113, Applicant No. is RF177277) collectively referred to as sample 1, and the second source sample (SN: NWRL2H0105, Applicant No. is RF177579) collectively referred to as sample 2.
- There is only one type of EUT. It is XT2407-2. Details can be found in the separate Product Equality Statement. Based on the differences, we selected XT2407-2 (sample 1) for full testing, and XT2407-2 (sample 2) to verify the differences.

2. Details Of Test

2.1 Applicant

| Applicant Name: | Motorola Mobility LLC |
|-----------------|---|
| Address: | 222 W, Merchandise Mart Plaza, Chicago IL 60654 USA |

2.2 Location of Test

| Test Site 1: | ADR TEST AND CERTIFICATION CENTER |
|--------------|---|
| Address: | NO.19, Gao Xin 4 th Road, Wuhan, 430205, P.R China |

2.3 Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

47 CFR FCC PART 15 Subpart B ANSI C63.4-2014

3. Result Summary

| Test Items | Test Standard | Limit | Result (PASS/FAIL) | Site | |
|---|-----------------|----------------|-----------------------|--------|--|
| Radiated | ANSI C63.4-2014 | 15.109 Class B | PASS | Site 1 | |
| emissions | | | | | |
| Conducted | ANSI C63 4 2014 | 15 107 Class B | DASS | Sito 1 | |
| emissions | ANSI 603.4-2014 | 15.107 Class B | FAGG | Sile I | |
| decision rules: Statements of conformity (e.g. Pass/Fail) to specifications are made in this report without | | | | | |
| taking measurement uncertainty into account except when requested by the customer. Where statements | | | | | |
| of conformity are made in this report, the following decision rules are applied: | | | | | |
| PASS- Results within limits/specifications | | | | | |
| FAIL- Results exceed limits/specifications | | | | | |

Remark: For the test result, the EUT had been tested with all test modes. But only the worst case was shown in test report.

Summary of Environment Condition, Test Date and Test Engineer for all Test Items

| Test items | Ambient | Relative | Atmospheric | Test Date | Test Engineer |
|------------|-------------|----------|-------------|--------------|----------------|
| | Temperature | Humidity | Pressure | | |
| | (°C) | (%) | (kPa) | | |
| | 24~26 | 52~55 | / | Apr.26,2024~ | Man Cao |
| Radiated | | | | Apr.28-2024 | Mingzhu Li |
| emissions | | | | | Rencong Liu |
| | | | | | Chuanghui Xiao |
| Conducted | 23~25 | 47~49 | / | Apr.26,2024~ | Man Cao |
| emissions | | | | Apr.28-2024 | Chuanghui Xiao |

4. Tests Configuration Of EUT

4.1 EUT Test Modes

All the test modes were carried out with the EUT under the normal operation, which were shown in this test report and defined as below:

| Test Items | configuration | |
|------------|--|--|
| | Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + USB | |
| | Cable 1(Charging from Adapter 1) + SIM for Sample 1 | |
| | Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Camera(Rear) + USB Cable | |
| | 2(Charging from Adapter 2) + E-SIM for Sample 1 | |
| | Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + USB Cable | |
| | 1(Charging from Adapter 2) + SIM for Sample 1 | |
| | Mode 4: LTE Band 17 Idle + Bluetooth Idle + WLAN(2.4G)Idle + NFC On + USB | |
| | Cable 2(Charging from Adapter 1) + SIM for Sample 1 | |
| | Mode 5: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + MPEG4(Run Color | |
| Radiated | Bar) + Earphone + SIM for Sample 1 | |
| Emissions | Mode 6: LTE Band 13 Idle + Bluetooth Idle + WLAN(2.4G)Idle + GNSS Rx + USB | |
| | Cable 1(Data Link with Notebook) + EUT(eMMC)USB Data Link to NB + | |
| | SIM for Sample 1 | |
| | Mode 7: LTE Band 26 Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Front) + USB | |
| | Cable 2(Data Link with Notebook) + NB USB Data Link to EUT(eMMC) + | |
| | SD for Sample 1 | |
| | Mode 8: n5 Idle + Bluetooth Idle + WLAN(2.4G)Idle + Camera(Front) + USB Cable | |
| | 2(Charging from Adapter 1) + SIM for Sample 1 | |
| | Mode 9: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Front) + | |
| | USB Cable 1(Charging from Adapter 2) + SIM for Sample 1 | |
| | Mode 10: LTE Band 17 Idle + Bluetooth Idle + WLAN(2.4G)Idle + USB Cable 1(EUT | |
| | Charging from Wireless charger) Adapter 1 Connect to Wireless charger + | |
| | SIM for Sample 1 | |
| | Mode 11: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + USB Cable | |
| | 1(Data Link with Notebook) + EUT(eMMC)USB Data Link to NB + SIM for | |
| | Sample 2 | |
| | Mode 12: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Front) | |
| | + USB Cable 1(Charging from Adapter 2) + SIM for Sample 2 | |
| | Mode 13: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Rear) | |
| | + USB Cable 1(Charging from Adapter 2) + SIM for Sample 2 | |
| | Mode 1: GSM 850 Idle + Bluetooth Idle + WLAN (2.4G) Idle + Camera(Rear) + USB | |
| | Cable 1(Charging from Adapter 1) + SIM for Sample 1 | |
| | Mode 2: GSM1900 Idle + Bluetooth Idle + WLAN Idle + Camera(Rear) + USB Cable | |
| | 2(Charging from Adapter 2) + E-SIM for Sample 1 | |
| | Mode 3: WCDMA Band V Idle + Bluetooth Idle + WLAN(5G)Idle + USB Cable | |
| | 2(Charging from Adapter 1) + SIM for Sample 1 | |
| | Mode 4: LTE Band 17 Idle + Bluetooth Idle + WLAN(2.4G)Idle + NFC On + USB | |
| | Cable 1(Charging from Adapter 2) + SIM for Sample 1 | |

| | Mode 5: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + MPEG4(Run | | | |
|-----------|--|--|--|--|
| | Color Bar) + USB Cable 2(Charging from Adapter 2)+ SIM for Sample 1 | | | |
| AC | Mode 6: LTE Band 13 Idle + Bluetooth Idle + WLAN(2.4G)Idle + GNSS Rx + | | | |
| Conducted | USB Cable 1(Data Link with Notebook) + EUT(eMMC)USB Data Link | | | |
| Emission | to NB + SIM for Sample 1 | | | |
| | Mode 7: LTE Band 26 Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Rear) + | | | |
| | USB Cable 2(Data Link with Notebook) + NB USB Data Link to | | | |
| | EUT(eMMC) + SD for Sample 1 | | | |
| | Mode 8: n5 Idle + Bluetooth Idle + WLAN(2.4G)Idle + Camera(Front) + USB | | | |
| | Cable 1(Charging from Adapter 2) + SIM for Sample 1 | | | |
| | Mode 9: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Front) + | | | |
| | USB Cable 2(Charging from Adapter 2)+ SIM for Sample 1 | | | |
| | Mode 10: LTE Band 17 Idle + Bluetooth Idle + WLAN(2.4G)Idle + USB Cable | | | |
| | 1(EUT Charging from Wireless charger) Adapter 1 Connect to Wireless | | | |
| | charger + SIM for Sample 1 | | | |
| | Mode 11: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + USB Cable | | | |
| | 2(Data Link with Notebook) + NB USB Data Link to EUT(eMMC) + SD | | | |
| | for Sample 2 | | | |
| | Mode 12: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Front) | | | |
| | + USB Cable 2(Charging from Adapter 2)+ SIM for Sample 2 | | | |
| | Mode 13: LTE Band 12 Idle + Bluetooth Idle + WLAN(5G)Idle + Camera(Rear) | | | |
| | + USB Cable 2(Charging from Adapter 2)+ SIM for Sample 2 | | | |

Remark:

- 1. If there is over one kind of accessories, each one should be applied in the all test modes. However, only the worst case will be recorded in this report.
- 2. If EUT has more than one typical operation, only the worst case will be recorded in this report.

Link Mode:

When the EUT state is switched on and worked.

Idle Mode:

When the EUT state is switch on but without Radio Resource Control (RRC) connection.

Worst mode of all test items listed in section 4.1

| Test items | Worst mode | |
|--------------------|------------|--|
| Radiated Emission | 9 | |
| Conducted Emission | 9 | |

Remark: Only data of worst mode (if test item has) was reported in test result.

4.2 Configuration Of Test System



4.3 Support Unit For Test

| Name | Model Name | Manufacturer | S/N |
|-------------------------|----------------|--------------|------------|
| System Simulator | CMW500 | R&S | 141518 |
| System Simulator | CMW500 | R&S | 171184 |
| System Simulator | CMX500 | R&S | 101840 |
| Vector Signal Generator | SMBV100A | R&S | 258462 |
| WLAN AP | TP-Link-8342 | TP-Link | NA |
| WLAN AP | H3C Magic NX54 | H3C | NA |
| Notebook | YOGA Pro 14s | Lenovo | PF48HYHV |
| Bluetooth Earphone | TR6 | SOA/Y | NA |
| Bluetooth Earphone | Earbuds X2 | COSONIC | NA |
| SD Card | 128 PRO Plus | Samsung | NA |
| U disk | L7C | Lenovo | NA |
| Earphone | N/A | N/A | SH38D62388 |
| Wireless charger | MW-02 | Motorola | SA18D50503 |

5. Test Result

5.1 Radiated Emissions

5.1.1 Limit

| Frequency range MHz | Quasi-pea dΒ (μ\ | RBW kHz | | | |
|-----------------------------|----------------------------|-------------------|-----|--|--|
| 30 to 88 | 40 | 120 | | | |
| 88 to 216 | 43. | 43.5 | | | |
| 216 to 960 | 46 | | 120 | | |
| 960 to 1000 | 54 | 54 | | | |
| Frequency range | Peak limits | Average limits | RBW | | |
| MHz | dB (µV/m) | dB (µV/m) | MHz | | |
| Above 1000 | 74 | 1 | | | |
| At transitional frequencies | the lower limit applies. | | | | |

5.1.2 Test Procedure

1. The test site, test set-up and test methods were according to ANSI C63.4-2014.

2. The EUT was placed on a non-metallic table 0.8m above the reference ground plane. The table was rotated 360 degrees to determine the position of the highest radiation.

3. The EUT was set 3m from the receiving antenna, which was mounted on a variable height antenna tower. The height range of tower was 1m to 4m.

4. A preliminary scan and a final scan of the emissions were made by using test script of software; The emissions were measured using quasi-peak detector (30M~1000MHz) and PK/AV detector (above 1GHz).
5. The maximal emission was acquired by adjusting the antenna height, polarisation and turntable azimuth in accordance with the software setup.

6. The EUT was configured in the typical operating mode.

7. If the emission level of the EUT in peak mode was 3 dB lower than the limit specified, peak values of EUT will be reported. Otherwise, the emission will be repeated by using the quasi-peak method and reported for frequency range below 1GHz.

8. If emission level of the EUT in Peak measurement mode is 20dB lower than Peak limit line (that means the emission level in Peak measurement mode complies with both Peak and Average limit lines), then only Peak measurement result is reported. Otherwise, emissions in Average measurement mode shall be measured and reported above 1GHz.

5.1.3 Test Set-up



Figure.1 Test set-up of radiated emissions (30MHz~1000MHz)



Figure.2 Test set-up of radiated emissions (above 1GHz)

5.1.4 Test Results

The EUT has met the requirements for Radiated Emissions. Test data refer to the section 8.1 of this report. Only the worst test result was shown in this report.

5.2 Conducted Emissions

5.2.1 Limit

| Frequency range MHz | Class d dB Quasi-peak | B Limits (μV) Average | RBW kHz | | | | | |
|--|--|-----------------------------|--------------------|--|--|--|--|--|
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | 9 | | | | | |
| 0.50 to 5 | 56 | 46 | 9 | | | | | |
| 5 to 30 | 60 | 50 | 9 | | | | | |
| NOTE 1: The limit de the range 0.1 | creases linearly v 5 MHz to 0.50 MI | vith the logarithm o Hz. | f the frequency in | | | | | |
| NOTE 2: The lower limit is applicable at the transition frequency. | | | | | | | | |

5.2.2 Test Procedure

1. The test site, test set-up and test methods were according to ANSI C63.4-2014.

2. The EUT was placed on a non-metallic table 0.8m above the reference ground plane.

3. The EUT was connected to LISN and LISN was connected to the reference ground plane. EUT was 80cm away from LISN.

4. A preliminary scan and a final scan of the emissions were made by using test script of software; the emissions were measured using quasi-peak and average detector.

5. Conducted Emission at AC port measurements were undertaken on the L and N lines.

6. The EUT was configured in the typical operating mode.

5.2.3 Test Set-up



Ground Reference Plane

Figure.3 Test set-up of conducted emissions

5.2.4 Test Results

The EUT has met the requirements for Conducted Emissions.

Test data refer to the section 8.2 of this report.

Only the worst test result was shown in this report.

6. Test Equipment And Software

| Main Test Equipments | | | | | | | | | |
|----------------------|--------------------------------|------------------|------------------|------------|---------------------|---------------------------------------|--|--|--|
| Test items | Instrument | Manufa cturer | Model No. | Serial No. | Calibration Date | Calibrat ion interval (year) | | | |
| | Double Ridged Horde Antenna | R&S | HF907 | 100545 | 2022/02/23 | 3 | | | |
| | Log-perAntenna | R&S | VULB9163 | 9163-893 | 2024/01/19 | 2 | | | |
| | broadband | DVC | QWH-SL-18- | 12004 | 2022/01/20 | 3 | | | |
| DE | Antenna | Ræð | 40-K-SG | | | | | | |
| NE | EMI Test | | | 101188 | 2023/07/14 | 1 | | | |
| | Receiver | R&S | ESR7 | | | | | | |
| | (30M~1GHz) | | | | | | | | |
| | Signal Analyzer | D & C | ES\/40 | 100956 | 2023/11/17 | 1 | | | |
| | (Above 1GHz) | na 3 | F3V40 | | | | | | |
| | LISN | R&S | ENV216 | 101223 | 2023/07/14 | 1 | | | |
| CE | EMI Test | D & C | ESD7 | 101188 | 2023/07/14 | 1 | | | |
| | Receiver | na 3 | ESRI | | | | | | |
| | Software Information | | | | | | | | |
| | Test Item | | Software N | lame | | | | | |
| | RE | | EMC32 | 2 | V 10.40.10 | | | | |
| | CE | | EMC32 V 10.40.10 | | | | | | |

7. System Measurement Uncertainty

For a 95% confidence level, the measurement expanded uncertainties for defined systems, in accordance with the recommendations of ISO 17025 were:

| Measurement Uncertainty | | | | | | |
|-------------------------|------------------------|----------------------|--|--|--|--|
| | Items | Extended Uncertainty | | | | |
| RE(30MHz~1GHz) | Field strength(dBµV/m) | U=5.8dB; k=2 | | | | |
| RE(1GHz~18GHz) | Field strength(dBµV/m) | U=4.9dB; k=2 | | | | |
| RE(18GHz-40GHz) | Field strength(dBµV/m) | U=5.1dB; k=2 | | | | |
| CE(150kHz~30MHz) | Voltage(dBµV) | U=3.3dB; k=2 | | | | |

8. Test Data

8.1 Radiated Emissions

30MHz~1GHz



Final_Result

| Frequency | QuasiPea | Limit | Margin | Bandwidth | Pol | Azimuth | Corr. |
|------------|----------|----------|--------|-----------|-----|---------|--------|
| (MHz) | k | (dBuV/m) | (dB) | (kHz) | | (deg) | (dB/m) |
| | (dBuV/m) | | | | | | |
| 40.416450 | 25.94 | 40.00 | 14.06 | 120.000 | V | 120.0 | 13.6 |
| 60.005800 | 29.02 | 40.00 | 10.98 | 120.000 | V | -45.0 | 13.3 |
| 83.976350 | 32.53 | 40.00 | 7.47 | 120.000 | V | 270.0 | 8.9 |
| 163.303050 | 23.67 | 43.50 | 19.83 | 120.000 | V | 91.0 | 9.8 |
| 275.783550 | 21.53 | 46.00 | 24.47 | 120.000 | н | 255.0 | 14.4 |
| 562.541200 | 31.47 | 46.00 | 14.53 | 120.000 | V | 309.0 | 20.1 |

Note:

Level =Reading level by receiver + Corr. (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

1GHz~40GHz



| Critical_Fre | qs | | | | | | | |
|--------------|----------|----------|----------|--------|-----------|-----|---------|--------|
| Frequency | MaxPeak | Average | Limit | Margin | Bandwidth | Pol | Azimuth | Corr. |
| (MHz) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | (kHz) | | (deg) | (dB/m) |
| 1187.000000 | | 29.83 | 54.00 | 24.17 | | V | 270.0 | -14.2 |
| 1810.900000 | 35.40 | | 74.00 | 38.60 | | V | 180.0 | -11.0 |
| 4039.600000 | 41.91 | | 74.00 | 32.09 | | V | 225.0 | -2.8 |
| 7019.700000 | | 35.78 | 54.00 | 18.22 | | н | 225.0 | 1.7 |
| 17804.500000 | 59.00 | | 74.00 | 15.00 | | н | 315.0 | 14.2 |
| 17830.000000 | | 46.69 | 54.00 | 7.31 | | V | 180.0 | 14.2 |

Level =Reading level by receiver + Corr. (Antenna factor + cable loss – preamplifier gain) The reading level is calculated by software which is not shown in the sheet.

8.2 Conducted Emissions

AC Port Test Data



Final Result

| Frequency | QuasiPeak | Average | Limit | Margin | Bandwidth | Line | Filter | Corr. |
|-----------|-----------|---------|--------|--------|-----------|------|--------|-------|
| (MHz) | (dBuV) | (dBuV) | (dBuV) | (dB) | (kHz) | | | (dB) |
| 0.154000 | 35.45 | | 65.76 | 30.31 | 9.000 | L1 | ON | 9.9 |
| 0.331500 | | 24.50 | 49.20 | 24.70 | 9.000 | L1 | ON | 9.9 |
| 0.612796 | 41.60 | | 56.00 | 14.40 | 9.000 | L1 | ON | 9.9 |
| 1.143864 | | 25.08 | 46.00 | 20.92 | 9.000 | N | ON | 9.8 |
| 6.276114 | 37.86 | | 60.00 | 22.14 | 9.000 | L1 | ON | 10.1 |
| 9.999909 | | 25.78 | 50.00 | 24.22 | 9.000 | L1 | ON | 10.2 |

Note:

Level =Reading level by receiver + Corr. (cable loss+ insertion loss)

The reading level is calculated by software which is not shown in the sheet.