



TEST REPORT

No. I19D00153-EMC01

For

Client: Doro AB

Production: 2G Clamshell Feature Phone

Model Name: DFC-0240

Brand Name: Doro

FCC ID: WS5DFC0240

Hardware Version: V01(HW code:3021/3051)

Software Version: DFC0250_0240_UF290_N_S01A_V01_M190906_SMP

Issued date: 2019-10-11



NOTE

- 1. The test results in this test report relate only to the devices specified in this report.
- 2. This report shall not be reproduced except in full without the written approval of East China Institute of Telecommunications
- The measurement uncertainty is not taken into account when deciding conformity, and the results of measurement (or the average of measurement results) are directly used as the criterion for the stating conformity.

Test Laboratory:

East China Institute of Telecommunications

Add: 7-8F, G Area, No.668, Beijing East Road, Huangpu District, Shanghai, P. R. China

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Revision Version

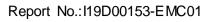
| Report Number | Revision | Date | Memo |
|-----------------|----------|------------|---------------------------------|
| I19D00153-EMC01 | 00 | 2019-10-11 | Initial creation of test report |

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1. Test Laboratory

1.1. Testing Location

| Company Name: | ECIT Shanghai, East China Institute of Telecommunications |
|----------------------|---|
| Address: | 7-8F, G Area, No. 668, Beijing East Road, Huangpu District, Shanghai, |
| | P. R. China |
| Postal Code: | 200001 |
| Telephone: | (+86)-021-63843300 |
| Fax: | (+86)-021-63843301 |
| FCC registration No: | 958356 |

1.2. Testing Environment

| Normal Temperature: | 15-35℃ |
|---------------------|-----------|
| Relative Humidity: | 30-60% RH |
| Supply Voltage | 120V/60Hz |

1.3. Project data

| Project Leader: | Xu Yuting |
|---------------------|------------|
| Testing Start Date: | 2019-09-26 |
| Testing End Date: | 2019-10-08 |

1.4. Signature

Lu Huifang

(Prepared this test report)

You Jinjun

(Reviewed this test report)

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Zheng Zhongbin

(Approved this test report)



2. Client Information

2.1. Applicant Information

| Company Name | Doro AB |
|--------------|--|
| Address | Doro AB, Jörgen Kocksgatan 1B, SE 211 20 MALMÖ, SWEDEN |
| Telephone | +46 46 280 50 76 |
| Postcode | / |

2.2. Manufacturer Information

| Company Name | Doro AB |
|--------------|--|
| Address | Doro AB, Jörgen Kocksgatan 1B, SE 211 20 MALMÖ, SWEDEN |
| Telephone | +46 46 280 50 76 |
| Postcode | |



3. Equipment under Test (EUT) and Ancillary Equipment (AE)

3.1. About EUT

| EUT Description | 2G Clamshell Feature Phone |
|-----------------------------------|----------------------------|
| Model name | DFC-0240 |
| GSM Frequency Band | GSM1900 |
| Additional Communication Function | BT3.0;GPS;FM; |

3.2. Internal Identification of EUT used during the test

| EUT ID* | SN or IMEI | HW Version | SW Version | Date of |
|---------------|------------------|-----------------|-----------------|------------|
| | | | | receipt |
| N04 | 357507100015760/ | V01(HW code: | DFC0250_0240_UF | |
| _ | | , | 290_N_S01A_V01_ | 2019-09-23 |
| (Main supply) | 357507100015778 | 3021) | M190906_SMP | |
| N06 | 257507400045500/ | \/01/LI\\/ oodo | DFC0250_0240_UF | |
| (Secondary | 357507100015588/ | V01(HW code: | 290_N_S01A_V01_ | 2019-09-23 |
| supply) | 357507100015596 | 3051) | M190906_SMP | |

^{*}EUT ID: is used to identify the test sample in the lab internally.

3.3. Internal Identification of AE used during the test

| AE ID* | Description | Model | SN |
|--------|-------------------|----------------------|------------------------------|
| CB06 | Adapter | A31 A-050055 U-EU1 | NA |
| CC02 | Adapter | S003ATB0500055 | NA |
| CD03 | Adapter | A2-501000 | NA |
| CE02 | Adapter | A806A-050100U-UK1 | NA |
| CF05 | Adapter | UT-133E-5100 | NA |
| CA04 | Adapter Cradle | DFC-0240/0270 | NA |
| UA01 | USB Cable | M039B0800150 | NA |
| AC05 | Earphone | JWEP0782-M01 | NA |
| AB05 | Earphone | JWEP0944-M01R | NA |
| BA05 | Battery | DBO-1000A | 41981V9051003906 |
| AE1 | Desktop PC | OptiPlex 790 DT | X8RP1 A01 APCC |
| AE2 | Notebook PC | DELL Latitude E6510 | NA |
| AE3 | LAN Cable | NA | NA |
| AE4 | VGA Cable | NA | NA |
| AE5 | RS232 Cable | NA | NA |
| AE6 | Keyboard | KB212-B | CN-0Y88XT-65890-12I-005Q-A00 |
| AE7 | Mouse | MS111-P | CN-011D3V-71581-19J-1A64 |
| AE8 | Monitor | Dell E1709Wc | NA |
| AE9 | SanDisk Ultra32GB | Kingston SDC4/4GB 77 | NA |

^{*}AE ID: is used to identify the test sample in the lab internally.

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^{*}The AE were provided by the lab.



3.4. Difference Between Main supply and Secondary supply

| ltem | Configure 1 | Configure 2 |
|---------|-------------------------|-------------------------|
| HW code | 3021 | 3051 |
| LCD | LCD SANLONG(28LS124-04) | LCD Holitech(QTB2D8096) |
| FLASH | Flash GD(GD25LQ128) | Flash DOS(FM25M4AA) |

Note: Customer declaration, two configures is the same, except for LCD and FLASH. There are more than one Configure, each one should be applied throughout the compliance test respectively, however, only the worst case (Configure 1&2) will be recorded in this report.

Main Supply

| Part Name | Model Name | supplier | Remark |
|--------------------|----------------|----------|--------|
| ZIF connector | FP270H-025T1DM | JXT | |
| Earphone jack | 11-0561136-A | LETCON | |
| Memory card socket | T11-BB09F150 | HRD | |
| Micro USB | U11-1B05G252 | HRD | |
| Battery connector | BAC5540306 | VELA | |

Secondary Supply

| Part Name | Model Name | supplier | Remark |
|--------------------|--------------------|----------|--------|
| ZIF connector | 4.001A0-025-1R0 | HAIWEISI | |
| Earphone iook | PH20-0A38F38M | HRD | |
| Earphone jack | JAF00-05382-010101 | LCN | |
| Mioro LICD | UBM9250516 | VELA | |
| Micro USB | UAF95-05254-S135-A | LCN | |
| Memory card socket | TFJ1150903 | VELA | |
| Detterniseenseter | B29-BB03F540 | HRD | |
| Battery connector | 02-032116B | LETCON | |

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4. Reference Documents

4.1 Reference Documents for testing

The following documents listed in this section are referred for testing.

| Reference | Title | Version |
|---------------------------|--|-----------|
| FCC Part 15, Subpart B | Radio frequency devices | 2019/9/24 |
| | Method of Measurement of Radio-Noise Emissions from | |
| ANSI C63.4 | Low-Voltage Electrical and Electronic Equipment in the Range of 9 kHz to 40 GHz | 2014 |



5. Test Results

5.1 Summary of Test Results

| Items | Test List Clause in FCC rules | | Verdict |
|-------|-------------------------------|-----------|---------|
| 1 | Radiated Emission | 15.109(a) | Pass |
| 2 | AC Conducted Emission | 15.107(a) | Pass |

5.2 Statements

The DFC-0240 manufactured by Doro AB is a variant model for testing. ECIT only performed test cases which identified with Pass/Fail/Inc result in section 5.1.

ECIT has verified that the compliance of the tested device specified in section 3 of this test report is successfully evaluated according to the procedure and test methods as defined in type certification requirement listed in section 4 of this test report.

Note: This project is a variant project based on the original report I19D00066-EMC01, with two configuration sample (Main supply and Secondary supply). Main supply sample has been tested again, The sample of Secondary supply tests the worst mode of Main supply. Refer to original reports for additional information.

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6. Test Equipment Utilized

6.1 Radiated Emission Equipment list

| Item | Instrument Name | Туре | Serial Number | Manufacturer | Cal. Date | Cal. interval |
|------|--|----------------|------------------------------|--------------|------------|------------------|
| 1 | Universal Radio Communication Tester | CMU200 | 123126 | R&S | 2019-05-10 | 1 year |
| 2 | Test Receiver | ESU40 | 100307 | 100307 R&S | | 1 year |
| 3 | Trilog Antenna | VULB9163 | VULB9163-5 15 Schwarzbeck | | 2017-02-25 | 3 years |
| 4 | Double Ridged Guide | ETS-3117 | 00135885 | ETS | 2017-01-11 | 3 years |
| 5 | EMI Test Software | EMC32 V9.15 | NA | R&S | NA | NA |
| 6 | Signal Generator | SMF 100A | 102314 | R&S | 2019-05-10 | 1 year |
| 7 | GPS Simulator | GSS 4200 | 1182 | SPIRENT | 2018-12-17 | 1 year |

6.1 AC Conducted Emission Equipment list

| Item | Instrument Name | Туре | Serial Number | Manufacturer | Cal. Date | Cal. interval |
|------|--|--------------------|------------------|--------------|------------|------------------|
| 1 | Universal Radio Communication Tester | CMU200 | 123123 | R&S | 2019-05-10 | 1 year |
| 2 | Test Receiver | ESCI | 101235 | R&S | 2019-05-10 | 1 year |
| 3 | 2-Line V-Network | ENV216 | 101380 | R&S | 2019-05-10 | 1 year |
| 4 | EMI Test Software | EMC32 V10.35.02 | NA | NA R&S | | NA |
| 5 | Signal Generator | SMF 100A | 102314 | R&S | 2019-05-10 | 1 year |
| 6 | GPS Simulator | GSS 4200 | 1182 | SPIRENT | 2018-12-17 | 1 year |



7. System Configuration during Test

7.1 Test Mode

Main supply_N04:

| Function Type | | | | | |
|---|--|--|--|--|--|
| Mode 1:GSM1900 idle mode+Camera+CB06+AB05 <figure 2=""></figure> | | | | | |
| Mode 2:Charging mode+Camera+CC02+AC05 <figure 2=""></figure> | | | | | |
| Mode 3:Charging mode+Camera+CD03+UA01+AB05 <figure 2=""></figure> | | | | | |
| Mode 4:Charging mode+Camera+CE02+UA01+AC05 <figure 2=""></figure> | | | | | |
| Mode 5:Charging mode+Camera+CF05+UA01+AB05 <figure 2=""></figure> | | | | | |
| Mode 6:Charging mode+Camera+CC02+CA04+AB05 <figure 2=""></figure> | | | | | |
| Mode 7:USB cable (Data Link with PC) <figure 1=""></figure> | | | | | |
| Mode 8:FM mode + AB05 <figure 2=""></figure> | | | | | |
| Mode 9:FM mode + AC05 <figure 2=""></figure> | | | | | |
| Mode 10:GPS mode <figure 2=""></figure> | | | | | |
| Mode 1:GSM1900 idle mode+Camera+CB06+AB05 <figure 2=""></figure> | | | | | |
| Mode 2:Charging mode+Camera+CC02+AC05 <figure 2=""></figure> | | | | | |
| Mode 3:Charging mode+Camera+CD03+UA01+AB05 <figure 2=""></figure> | | | | | |
| Mode 4:Charging mode+Camera+CE02+UA01+AC05 <figure 2=""></figure> | | | | | |
| Mode 5:Charging mode+Camera+CF05+UA01+AB05 <figure 2=""></figure> | | | | | |
| Mode 6:Charging mode+Camera+CC02+CA04+AB05 <figure 2=""></figure> | | | | | |
| Mode 7:USB cable (Data Link with PC) <figure 1=""></figure> | | | | | |
| Mode 8:FM mode + AB05 <figure 2=""></figure> | | | | | |
| Mode 9:FM mode + AC05 <figure 2=""></figure> | | | | | |
| Mode 10:GPS mode <figure 2=""></figure> | | | | | |
| | | | | | |

Remark:

- 1. All test modes are performed, only the worst cases test data are recorded in this report.
- 2. Data Link with PC means data application transferred mode between EUT and PC.
- 3. The test specification for FM function: the EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.
- 4. EUT and GPS simulator (GSS4200) connection is established.

Secondary supply_N06:

| Test Item | Function Type |
|--------------------------|---|
| AC Conducted Emission | Mode 6:Charging mode+Camera+CC02+CA04+AB05 <figure 2=""></figure> |
| Radiated Emission | Mode 2:Charging mode+Camera+CC02+AC05 <figure 2=""> Mode 3:Charging mode+Camera+CD03+UA01+AB05<figure 2=""></figure></figure> |
| Domork: | |

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Remark:

1. All test modes are performed, only the worst cases test data are recorded in this report.

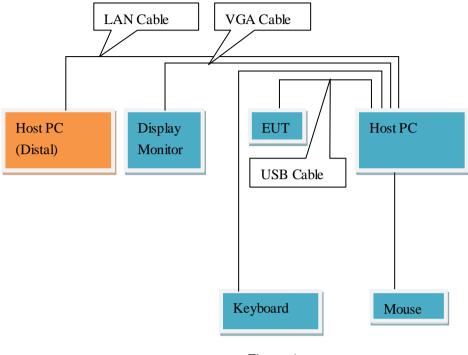




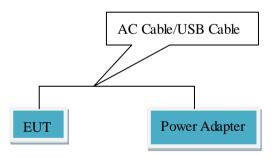
- 2. Data Link with PC means data application transferred mode between EUT and PC.
- 3. The test specification for FM function: the EUT is synchronized to a FM signal generator. The EUT is keeping on demodulating the FM signal and outputting the audio signal through the headset.
- 4. EUT and GPS simulator (GSS4200) connection is established.



7.2 Connection Diagram of Test System



<Figure 1>



<Figure 2>



8. Measurement Results

Only the worst test result was shown in this report.

8.1 Radiated Emission 30MHz-18GHz

Method of Measurement

For 30MHz -1000MHz, the EUT was placed on the top of a rotating 0.8m table above the ground at a semi-anechoic chamber. The distance between the EUT and the received antenna was 3 meters. The table was rotated 360 degree and the received antenna mounted on a variable-height antenna tower was varied from 1m to 4m to find the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement. Tested in accordance with the procedures of ANSI C63.4-2014, section 8.3.

For 1000MHz-18000MHz, The maximal emission value was acquired by adjusting the antenna height, The table was rotated 360 degree to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna were set during the measurement.

Limits for Radiated Emission at a measuring distance of 3m

| Frequency Range (MHz) | Quasi-Peak (dBuV/m) | | |
|-----------------------|---------------------|--|--|
| 30-88 | 40 | | |
| 88-216 | 43.5 | | |
| 216-960 | 46 | | |
| Above 960 | 54 | | |

| Frequency Range (MHz) | Peak (dBuV/m) | Average (dBuV/m) |
|-----------------------|---------------|------------------|
| Above 1000 | 74 | 54 |

Test conditions

| Frequency Range (MHz) | RBW/VBW | Sweep Time (s) | | |
|-----------------------|---------------|----------------|--|--|
| 30-1000 | 120kHz/300kHz | Auto | | |
| 1000-18000 | 1MHz/3MHz | Auto | | |

Uncertainty Measurement

The measurement uncertainty (30MHz-1000MHz) is 4.98 dB (k=2).

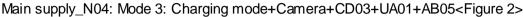
The measurement uncertainty (1000MHz-18000MHz) is 5.06 dB (k=2).

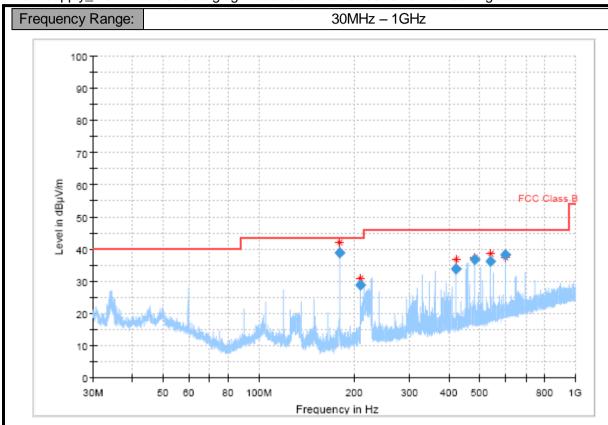
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Test Results

Sweep the whole frequency band through the range from 30MHz to the 5th harmonic of the carrier, the Emissions in the frequency band 18GHz-40GHz is more than 20dB below the limit are not report.





| Frequency | QuasiPeak | Limit | Margin | Meas. | Bandwidth | Height | Pol | Azimut | Corr. |
|------------|-----------|--------|--------|--------|-----------|--------|-----|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/ | (dB) | Time | (kHz) | (cm) | | h | (dB) |
| | | m) | | (ms) | | | | (deg) | |
| 180.033021 | 38.84 | 43.50 | 4.66 | 1000.0 | 120.000 | 100.0 | ٧ | 60.0 | -29.1 |
| 210.028032 | 28.84 | 43.50 | 14.66 | 1000.0 | 120.000 | 125.0 | Н | -27.0 | -27.7 |
| 419.979371 | 33.76 | 46.00 | 12.24 | 1000.0 | 120.000 | 100.0 | Н | -29.0 | -23.3 |
| 480.033205 | 36.69 | 46.00 | 9.31 | 1000.0 | 120.000 | 125.0 | ٧ | 340.0 | -22.1 |
| 539.962651 | 36.27 | 46.00 | 9.73 | 1000.0 | 120.000 | 100.0 | ٧ | 91.0 | -20.7 |
| 599.998773 | 38.10 | 46.00 | 7.90 | 1000.0 | 120.000 | 100.0 | ٧ | 105.0 | -19.2 |

Note:

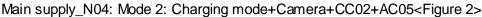
1.Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss - preamplifier gain)

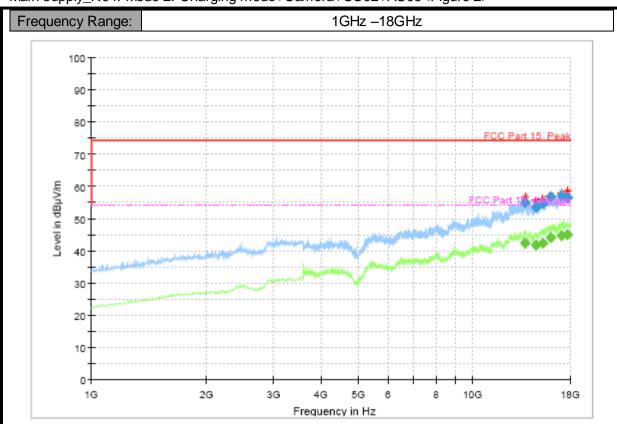
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.







Final Result

| Frequency | MaxPeak | Average | Limit | Margin | Meas. | Bandwi | Heigh | Ро | Azimu | Corr. |
|--------------|----------|----------|----------|--------|-------|---------|-------|----|-------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | Time | dth | t | 1 | th | (dB) |
| 13713.600000 | | 42.24 | 54.00 | 11.76 | 100.0 | 1000.00 | 100.0 | ٧ | 0.0 | 18.8 |
| 13713.600000 | 54.94 | | 74.00 | 19.06 | 100.0 | 1000.00 | 100.0 | ٧ | 0.0 | 18.8 |
| 14631.200000 | | 41.77 | 54.00 | 12.23 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 19.6 |
| 14631.200000 | 53.44 | | 74.00 | 20.56 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 19.6 |
| 15194.400000 | 54.85 | | 74.00 | 19.15 | 100.0 | 1000.00 | 200.0 | ٧ | 202.0 | 20.7 |
| 15194.400000 | | 42.30 | 54.00 | 11.70 | 100.0 | 1000.00 | 200.0 | ٧ | 202.0 | 20.7 |
| 16000.200000 | | 44.09 | 54.00 | 9.91 | 100.0 | 1000.00 | 100.0 | ٧ | 55.0 | 22.3 |
| 16000.200000 | 56.77 | | 74.00 | 17.23 | 100.0 | 1000.00 | 100.0 | ٧ | 55.0 | 22.3 |
| 17018.400000 | 57.11 | | 74.00 | 16.89 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 23.8 |
| 17018.400000 | | 44.70 | 54.00 | 9.30 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 23.8 |
| 17637.200000 | | 45.09 | 54.00 | 8.91 | 100.0 | 1000.00 | 100.0 | ٧ | 287.0 | 24.5 |
| 17637.200000 | 56.61 | - | 74.00 | 17.39 | 100.0 | 1000.00 | 100.0 | ٧ | 287.0 | 24.5 |

Note:

1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss - preamplifier gain)

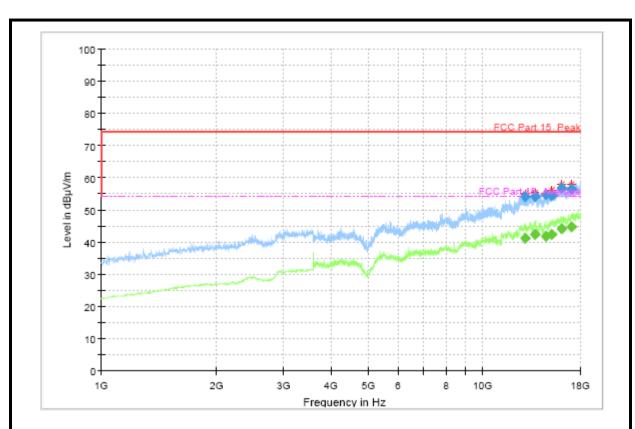
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.

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Final Result

| Frequency | MaxPeak | Average | Limit | Margin | Meas. | Bandwi | Heigh | Ро | Azimu | Corr. |
|--------------|----------|----------|----------|--------|-------|---------|-------|----|-------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | Time | dth | t | 1 | th | (dB) |
| 12883.200000 | 54.09 | | 74.00 | 19.91 | 100.0 | 1000.00 | 200.0 | Н | 183.0 | 17.5 |
| 12883.200000 | | 41.13 | 54.00 | 12.87 | 100.0 | 1000.00 | 200.0 | Н | 183.0 | 17.5 |
| 13732.200000 | 54.11 | | 74.00 | 19.89 | 100.0 | 1000.00 | 100.0 | Н | 236.0 | 18.8 |
| 13732.200000 | | 42.36 | 54.00 | 11.64 | 100.0 | 1000.00 | 100.0 | Н | 236.0 | 18.8 |
| 14644.200000 | | 41.80 | 54.00 | 12.20 | 100.0 | 1000.00 | 200.0 | Н | 359.0 | 19.7 |
| 14644.200000 | 54.56 | | 74.00 | 19.44 | 100.0 | 1000.00 | 200.0 | Н | 359.0 | 19.7 |
| 15161.400000 | | 42.36 | 54.00 | 11.64 | 100.0 | 1000.00 | 100.0 | Н | 53.0 | 20.7 |
| 15161.400000 | 54.28 | | 74.00 | 19.72 | 100.0 | 1000.00 | 100.0 | Н | 53.0 | 20.7 |
| 16058.600000 | | 44.26 | 54.00 | 9.74 | 100.0 | 1000.00 | 200.0 | Н | 329.0 | 22.5 |
| 16058.600000 | 56.86 | | 74.00 | 17.14 | 100.0 | 1000.00 | 200.0 | Н | 329.0 | 22.5 |
| 17112.600000 | | 44.62 | 54.00 | 9.38 | 100.0 | 1000.00 | 100.0 | Н | 94.0 | 24.0 |
| 17112.600000 | 56.44 | | 74.00 | 17.56 | 100.0 | 1000.00 | 100.0 | Н | 94.0 | 24.0 |

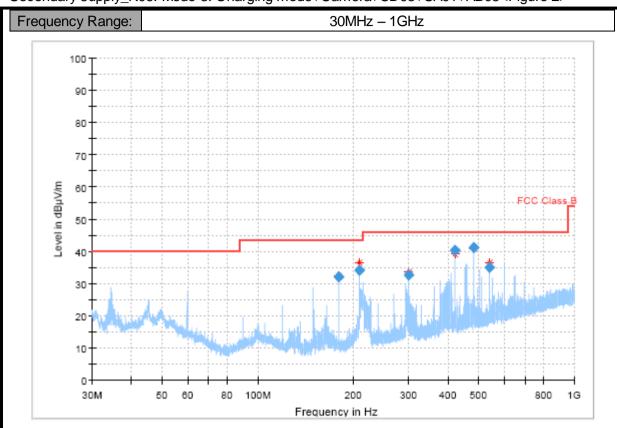
Note:

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.

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Secondary supply_N06: Mode 3: Charging mode+Camera+CD03+UA01+AB05<Figure 2>



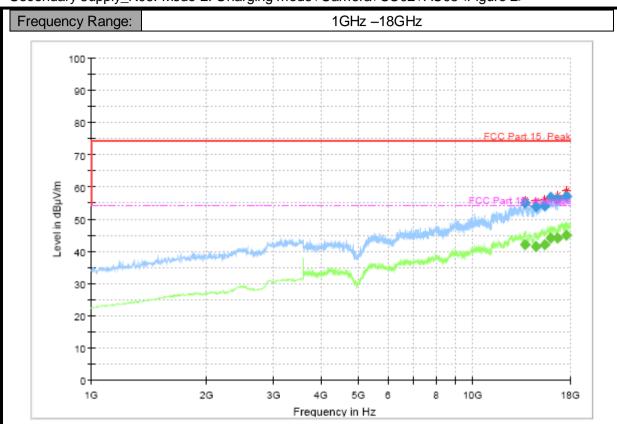
| Frequency | QuasiPeak | Limit | Margin | Meas. | Bandw idth | Height | Pol | Azimut | Corr. |
|------------|-----------|--------|--------|--------|------------|--------|-----|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/ | (dB) | Time | (kHz) | (cm) | | h | (dB) |
| | | m) | | (ms) | | | | (deg) | |
| 180.004339 | 32.05 | 43.50 | 11.45 | 1000.0 | 120.000 | 180.0 | Н | 112.0 | -29.1 |
| 209.989467 | 34.01 | 43.50 | 9.49 | 1000.0 | 120.000 | 196.0 | Н | -28.0 | -27.7 |
| 299.994173 | 32.58 | 46.00 | 13.42 | 1000.0 | 120.000 | 121.0 | Н | -23.0 | -25.7 |
| 419.982376 | 40.38 | 46.00 | 5.62 | 1000.0 | 120.000 | 100.0 | Н | 331.0 | -23.3 |
| 479.968344 | 41.03 | 46.00 | 4.97 | 1000.0 | 120.000 | 105.0 | ٧ | 105.0 | -22.1 |
| 540.003195 | 35.12 | 46.00 | 10.88 | 1000.0 | 120.000 | 100.0 | ٧ | 238.0 | -20.7 |

Note:

- 1.Emission level(QP)=Raw value by receiver + Corr(Antenna factor + cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3.Margin=limit value emission level.



Secondary supply_N06: Mode 2: Charging mode+Camera+CC02+AC05<Figure 2>



Final Result

| Frequency | MaxPeak | Average | Limit | Margin | Meas. | Bandwi | Heigh | Ро | Azimu | Corr. |
|--------------|----------|----------|----------|--------|-------|---------|-------|----|-------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | Time | dth | t | 1 | th | (dB) |
| 13654.800000 | 55.13 | | 74.00 | 18.87 | 100.0 | 1000.00 | 200.0 | Н | 278.0 | 18.6 |
| 13654.800000 | | 41.97 | 54.00 | 12.03 | 100.0 | 1000.00 | 200.0 | Н | 278.0 | 18.6 |
| 14576.400000 | 53.76 | | 74.00 | 20.24 | 100.0 | 1000.00 | 100.0 | Н | 44.0 | 19.4 |
| 14576.400000 | | 41.60 | 54.00 | 12.40 | 100.0 | 1000.00 | 100.0 | Н | 44.0 | 19.4 |
| 15391.200000 | | 42.20 | 54.00 | 11.80 | 100.0 | 1000.00 | 200.0 | Н | 16.0 | 21.0 |
| 15391.200000 | 54.24 | | 74.00 | 19.76 | 100.0 | 1000.00 | 200.0 | Н | 16.0 | 21.0 |
| 15989.600000 | 56.81 | | 74.00 | 17.19 | 100.0 | 1000.00 | 100.0 | Н | 223.0 | 22.3 |
| 15989.600000 | | 44.11 | 54.00 | 9.89 | 100.0 | 1000.00 | 100.0 | Н | 223.0 | 22.3 |
| 16691.400000 | | 44.00 | 54.00 | 10.00 | 100.0 | 1000.00 | 200.0 | Н | 0.0 | 23.5 |
| 16691.400000 | 56.32 | | 74.00 | 17.68 | 100.0 | 1000.00 | 200.0 | Н | 0.0 | 23.5 |
| 17561.800000 | 56.96 | | 74.00 | 17.04 | 100.0 | 1000.00 | 100.0 | Н | 0.0 | 24.6 |
| 17561.800000 | | 44.86 | 54.00 | 9.14 | 100.0 | 1000.00 | 100.0 | Н | 0.0 | 24.6 |

Note:

1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss - preamplifier gain)

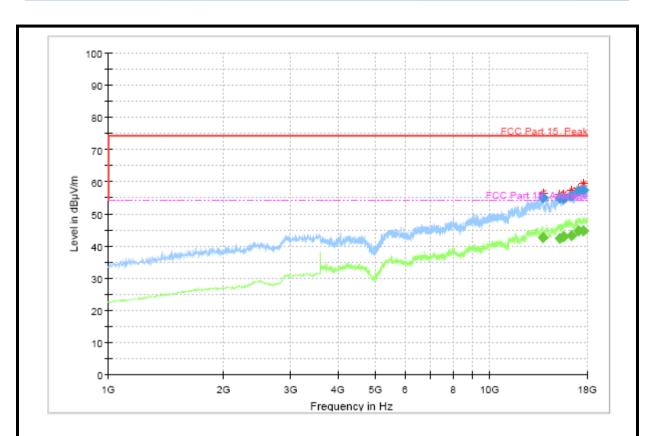
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.

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Final Result

| Frequency | MaxPeak | Average | Limit | Margin | Meas. | Bandwi | Heigh | Ро | Azimu | Corr. |
|--------------|----------|----------|----------|--------|-------|---------|-------|----|-------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dBuV/m) | (dB) | Time | dth | t | 1 | th | (dB) |
| 13747.400000 | 55.14 | | 74.00 | 18.86 | 100.0 | 1000.00 | 200.0 | ٧ | 303.0 | 18.8 |
| 13747.400000 | | 42.55 | 54.00 | 11.45 | 100.0 | 1000.00 | 200.0 | ٧ | 303.0 | 18.8 |
| 15228.400000 | | 42.36 | 54.00 | 11.64 | 100.0 | 1000.00 | 200.0 | ٧ | 283.0 | 20.7 |
| 15228.400000 | 54.94 | | 74.00 | 19.06 | 100.0 | 1000.00 | 200.0 | ٧ | 283.0 | 20.7 |
| 15644.800000 | 54.69 | | 74.00 | 19.31 | 100.0 | 1000.00 | 200.0 | ٧ | 194.0 | 21.5 |
| 15644.800000 | | 42.95 | 54.00 | 11.05 | 100.0 | 1000.00 | 200.0 | ٧ | 194.0 | 21.5 |
| 16348.200000 | 55.51 | | 74.00 | 18.49 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 22.8 |
| 16348.200000 | | 43.30 | 54.00 | 10.70 | 100.0 | 1000.00 | 200.0 | ٧ | 0.0 | 22.8 |
| 17033.800000 | | 44.71 | 54.00 | 9.29 | 100.0 | 1000.00 | 200.0 | ٧ | 354.0 | 23.9 |
| 17033.800000 | 57.11 | | 74.00 | 16.89 | 100.0 | 1000.00 | 200.0 | ٧ | 354.0 | 23.9 |
| 17572.600000 | 57.40 | | 74.00 | 16.60 | 100.0 | 1000.00 | 100.0 | ٧ | 217.0 | 24.6 |
| 17572.600000 | | 44.77 | 54.00 | 9.23 | 100.0 | 1000.00 | 100.0 | ٧ | 217.0 | 24.6 |

Note:

- 1.Emission level(peak or average)=Raw value by receiver + Corr(Antenna factor+ cable loss preamplifier gain)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.

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8.2 AC Conducted Emission

Method of Measurement

For equipment that is designed to be connected to the public utility (AC) power line, the radio frequency voltage that is conducted back onto the AC power line on any frequency or frequencies with the band 150 kHz to 30MHz shall not exceed the limits. Both lines of the power mains connected to the EUT were checked for maximum conducted interference. Tested in accordance with the procedures of ANSI C63.4-2014, section 7.3

Limit of Conducted Emission

| Frequency Range (MHz) | Conducted 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 Condition in Charging Mode

| Voltage (V) | Frequency (Hz) | RBW | Sweep Time (s) |
|-------------|----------------|-------|----------------|
| 120 | 60 | 9 kHz | Auto |

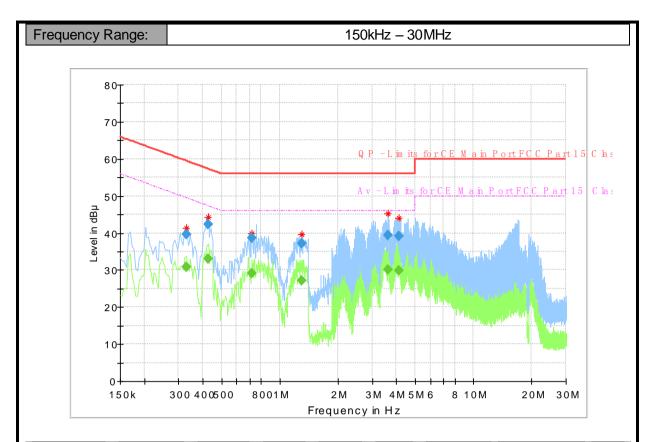
Uncertainty Measurement

The measurement uncertainty is 3.66dB (k=2).

Test Results

Main supply_N04: Mode 6: Charging mode+Camera+CC02+CA04+AB05<Figure 2>





| Frequency | QuasiPeak | Average | Limit | Margin | Meas. | Bandw idth | Line | Filter | Corr. |
|-----------|-----------|---------|---------|--------|--------|------------|------|--------|-------|
| (MHz) | (dBµV) | (dBµ V) | (dBµ V) | (dB) | Time | (kHz) | | | (dB) |
| 0.329100 | | 30.86 | 49.47 | 18.62 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.329100 | 39.67 | | 59.47 | 19.80 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.426113 | | 32.92 | 47.33 | 14.41 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.426113 | 42.35 | 1 | 57.33 | 14.98 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.713419 | | 29.20 | 46.00 | 16.80 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.713419 | 38.69 | - | 56.00 | 17.31 | 15000. | 9.000 | L1 | ON | 9.6 |
| 1.295494 | | 27.16 | 46.00 | 18.84 | 15000. | 9.000 | L1 | ON | 9.7 |
| 1.295494 | 37.08 | - | 56.00 | 18.92 | 15000. | 9.000 | L1 | ON | 9.7 |
| 3.605138 | | 30.19 | 46.00 | 15.81 | 15000. | 9.000 | L1 | ON | 9.7 |
| 3.605138 | 39.39 | | 56.00 | 16.61 | 15000. | 9.000 | L1 | ON | 9.7 |
| 4.120050 | | 29.85 | 46.00 | 16.15 | 15000. | 9.000 | L1 | ON | 9.8 |
| 4.120050 | 39.23 | | 56.00 | 16.77 | 15000. | 9.000 | L1 | ON | 9.8 |

Note:

1.Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)

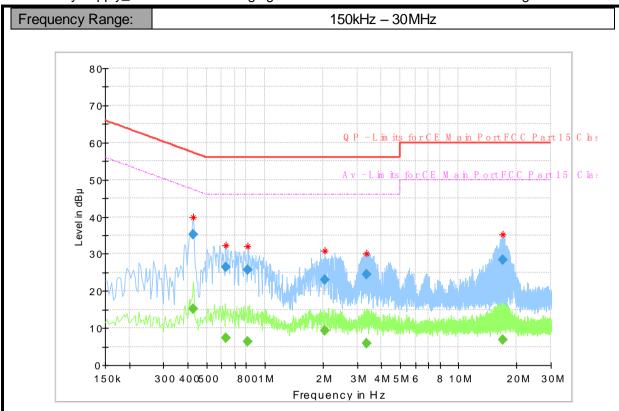
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- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.
- 4.L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.



Secondary supply_N06: Mode 6: Charging mode+Camera+CC02+CA04+AB05<Figure 2>



| Frequency | QuasiPeak | Average | Limit | Margin | Meas. | Bandwidth | Line | Filter | Corr. |
|-----------|-----------|---------|--------|--------|--------|-----------|------|--------|-------|
| (MHz) | (dBµV) | (dBµ V) | (dBµV) | (dB) | Time | (kHz) | | | (dB) |
| 0.426113 | | 15.27 | 47.33 | 32.06 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.426113 | 35.29 | | 57.33 | 22.04 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.627600 | | 7.29 | 46.00 | 38.71 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.627600 | 26.35 | | 56.00 | 29.65 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.817894 | | 6.36 | 46.00 | 39.64 | 15000. | 9.000 | L1 | ON | 9.6 |
| 0.817894 | 25.66 | | 56.00 | 30.34 | 15000. | 9.000 | L1 | ON | 9.6 |
| 2.034281 | | 9.39 | 46.00 | 36.61 | 15000. | 9.000 | N | ON | 9.8 |
| 2.034281 | 22.88 | | 56.00 | 33.12 | 15000. | 9.000 | N | ON | 9.8 |
| 3.358875 | 24.43 | | 56.00 | 31.57 | 15000. | 9.000 | L1 | ON | 9.7 |
| 3.358875 | | 5.97 | 46.00 | 40.03 | 15000. | 9.000 | L1 | ON | 9.7 |
| 16.948088 | 28.39 | | 60.00 | 31.61 | 15000. | 9.000 | L1 | ON | 10.1 |
| 16.948088 | | 6.92 | 50.00 | 43.08 | 15000. | 9.000 | L1 | ON | 10.1 |

Note:

- 1.Emission level(quasi-peak or Average peak)=Raw value by receiver + Corr(Insertion loss+ cable loss)
- 2. The raw value is used to calculate by software which is not shown in the sheet.
- 3. Margin=limit value emission level.
- 4.L1 and N line is all have been tested, the result of them is synthesized in the above data diagram.



Annex A Accreditation Certificate





Accredited Laboratory

A2LA has accredited

EAST CHINA INSTITUTE OF TELECOMMUNICATIONS

Shanghai, People's Republic of China

for technical competence in the field of

Electrical Testing

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017

General requirements for the competence of testing and calibration laboratories. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer to joint ISO-ILAC-IAF Communiqué dated April 2017).



Presented this 6th day of May 2019.

Vice President, Accreditation Services For the Accreditation Cauncil Certificate Number 3682.01 Valid to February 28, 2021

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For the tests to which this accreditation applies, please refer to the laboratory's Electrical Scope of Accreditation.

********END OF REPORT********