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ELECTROMAGNETIC EMISSIONS COMPLIANCE REPORT

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FCC Manufacturer: Sharp Corporation

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Product Name: Smart phone **Report Number:** ER/2020/C0016 FCC ID APYHRO00293

FCC Rule Part Part 15.225

Issue Date: January 19, 2021

Date of Test: November 17, 2020 - December 16, 2020 (Original),

December 9, 2020 - January 14, 2021 (Radiated Emission)

November 17, 2020 (Original), Date of EUT Received:

December 9, 2020 (Radiated Emission)

We hereby certify that:

The above equipment was tested by SGS Taiwan Ltd. Central RF Lab .The test data, data evaluation, test procedures, and equipment configurations shown in this report were made in accordance with the procedures given in ANSI C63.10:2013 and the energy emitted by the sample EUT tested as described in this report is in compliance with conducted and radiated emission limits.

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





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| Revision History | | | | | | | |
|--|--------|-----------|------------------|-------------------------|--|--|--|
| Report Number Revision Description Issue Date Remark | | | | | | | |
| ER/2020/C0016 | Rev.00 | Original. | January 19, 2021 | Revised By: Karen Huang | | | |
| | | | | | | | |

Note:

- 1 Test data is referenced from cross authorization(s) Measurement results in the original test report ER/2020/B0095 under FCC ID: APYHRO00291 are partial leveraged in this test report with full test on radiated emission to demonstrate compliance.
- 2 · Disclaimer Antenna information is provided by the applicant, test results of this report are applicable to the sample EUT received.

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GENERAL INFORMATION

1.1 Product Description

| Product Name: | Smart phone |
|-------------------|---|
| Hardware Version: | DVT |
| Software Version: | N/A |
| Power Supply: | 3.85 Vdc from Rechargeable Li-polymer Battery |

| Radio Technology: | NFC |
|---------------------|--------------------|
| Operating Frequency | 13.56MHz |
| Transmit Power | < 123dBuV/m at 3m. |
| Number of Channels | 1 |
| Antenna Type | Loop Antenna |
| Modulation Type | ASK |

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1.2 Test Methodology

FCC Part 15, Subpart C §15.225 ANSI C63.10:2013.

1.3 Test Facility

SGS Taiwan Ltd. Central RF Lab (TAF code 3702) No.134, Wu Kung Road, New Taipei Industrial Park, Wuku District, New Taipei City, Taiwan 24803 FCC Designation number: TW0027

1.4 Special Accessories

There is no other accessory attached. This is the worst case condition.

1.5 Equipment Modifications

There was no modification incorporated into the EUT.

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SYSTEM TEST CONFIGURATION

2.1 EUT Configuration

The EUT configuration for testing is installed on RF field strength measurement to meet the Commissions requirement and operating in a manner which intends to maximize its emission characteristics in a continuous normal application.

2.2 EUT Exercise

The Transmitter was operated in the normal operating mode. The Tx frequency was fixed which was for the purpose of the measurements.

2.3 Test Procedure

2.3.1 **Conducted Emissions**

The EUT is a placed on a table which is 0.8 m above ground plane. Conducted emissions from the EUT measured in the frequency range between 0.15 MHz and 30MHz. The CISPR Quasi-Peak and Average detector mode is employed. The two LISNs provide 50uH/50 ohm of coupling impedance for the measuring instrument. Both lines of the power mains connected to the EUT were checked for maximum conducted interference.

Radiated Emissions 2.3.2

The EUT is a placed on a turn table. For emissions testing at or below 1 GHz, the table height shall be 0.8 m above the reference ground plane. For emission measurements above 1 GHz, the table height shall be 1.5 m. The turn table shall rotate 360 degrees to determine the position of maximum emission level. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical. In order to find out the max. emission, the relative positions of this transmitter (EUT) was rotated through three orthogonal axes and measurement procedures for electric field radiated emissions above 1 GHz the EUT measurement is to be made "while keeping the antenna in the 'cone of radiation' from that area and pointed at the area both in azimuth and elevation, with polarization oriented for maximum response." is still within the 3dB illumination BW of the measurement antenna.

Radiated Emission Test Sites For Measurements From 9 kHz To 30 MHz 2.3.3

Radiated emission below 30MHz is measured in a 9m*9m*6m semi-anechoic chamber. the measurements correspond to those obtained at an open-field test site. There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

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2.4 Configuration of Tested System

Fig. 2-1 Emission test set up configuration



Fig. 2-2 Conducted test set up configuration



Fig. 2-3 Conduction (AC Power Line) **Radiated Emission**



Table 2-1 Equipment Used in Tested System

| Item | Equipment | Mfr/Brand | Model/Type No. | Series No. | Data Cable | Power Cord |
|------|-------------------|-----------|----------------|------------|------------|---------------|
| 1. | NFC Test software | N/A | N/A | N/A | N/A | N/A |
| 2. | EarPhones | Panasonic | RP-HJS150-K | N/A | N/A | N/A |
| 3. | Adapter | Sharp | XN-2QC25 | NA | N/A | N/A |

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SUMMARY OF TEST RESULTS

| FCC Rules | Description Of Test | Result |
|------------------------|---|-----------|
| §15.207 | AC Power Line Conducted Emission | Compliant |
| §15.225 (a)-(d) | Radiated Emission | Compliant |
| §15.209 | Radiated Emission Limits, general requirement | Compliant |
| §15.225 (e) | Frequency Stability | Compliant |
| §2.1049 §15.215 (c) | 20 dB OCCUPIED BANDWIDTH | Compliant |
| §15.203 | Antenna Requirement | Compliant |

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DESCRIPTION OF TEST MODES

4.1 The Worst Test Modes and Channel Details

- 1. The EUT stay in continuous transmission mode.
- 2. The frequency 13.56 MHz is the default channel to test, where it is the only manipulative channel as this application supports.
- 3. Only one configuration is supported/applicable as follows.

| RADIATED EMISSION TEST | | | | | |
|------------------------|----------------------|-------------------|------------|--|--|
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | | |
| NFC | 1 | 1 | ASK | | |
| FREQUENCY STABILITY | | | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | | |
| NFC | 1 | 1 | ASK | | |
| | 20dB BAN | IDWIDTH | | | |
| MODE | AVAILABLE CHANNEL | TESTED CHANNEL | MODULATION | | |
| NFC | 1 | 1 | ASK | | |

The field strength of spurious radiation emission was measured as EUT stand-up position (H, E1 mode) and lie down position (E2 mode) for NFC Transmitter for channel the worst case H position was reported.

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MEASUREMENT UNCERTAINTY

| Test Items | Uncertainty |
|-------------------------------------|-------------------------|
| AC Power Line Conducted Emission | +/- 2.586 dB |
| Frequency Stability | +/- 123.36 Hz |
| 20 dB OCCUPIED BANDWIDTH | +/- 123.36 Hz |
| Temperature | +/- 0.8 °C |
| Humidity | +/- 4.7 % |
| DC / AC Power Source | DC= +/- 1%, AC=+/- 0.2% |

| Radiated Spurious Emission Measurement Uncertainty | | | | |
|--|----------------------------|--|--|--|
| | 9kHz~30MHz: +-2.3dB | | | |
| | 30MHz - 180MHz: +/- 3.37dB | | | |
| Polarization: Vertical | 180MHz -417MHz: +/- 3.19dB | | | |
| Polarization. Vertical | 0.417GHz-1GHz: +/- 3.19dB | | | |
| | 1GHz - 18GHz: +/- 4.04dB | | | |
| | 18GHz - 40GHz: +/- 4.04dB | | | |
| | 9kHz~30MHz: +-2.3dB | | | |
| | 30MHz - 167MHz: +/- 4.22dB | | | |
| Polarization: Horizontal | 167MHz -500MHz: +/- 3.44dB | | | |
| Polarization. Horizontal | 0.5GHz-1GHz: +/- 3.39dB | | | |
| | 1GHz - 18GHz: +/- 4.08dB | | | |
| | 18GHz - 40GHz: +/- 4.08dB | | | |

Note:

- 1. This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.
- 2. The conformity assessment statement in this report is based solely on the test results, measurement uncertainty is excluded.

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CONDUCTED EMISSIONS TEST

6.1 Standard Applicable

According to §15.207 and frequency within 150 kHz to 30MHz shall not exceed the limit table as below.

| | <i>j</i> | | | |
|-----------------|------------|----------|--|--|
| | Limits | | | |
| Frequency range | dB(uV) | | | |
| MHz | Quasi-peak | Average | | |
| 0.15 to 0.50 | 66 to 56 | 56 to 46 | | |
| 0.50 to 5 | 56 | 46 | | |
| 5 to 30 | 60 | 50 | | |
| | | | | |

Note

6.2 Measurement Equipment Used:

| Conducted Emission Test Site | | | | | | | |
|------------------------------|-----------------|---------------|------------------------|------------|------------|--|--|
| EQUIPMENT | MFR | MODEL | SERIAL | LAST | CAL DUE. | | |
| TYPE | | NUMBER | NUMBER | CAL. | | | |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 | | |
| LISN | SCHWARZB ECK | NSLK 8127 | 8127-465 | 04/09/2020 | 04/08/2021 | | |
| Coaxial Cables | N/A | Coaxial Cable | 161207 | 12/07/2019 | 12/06/2020 | | |
| Test Software | audix | e3 | Ver. 6.11- 20180413 | N.C.R | N.C.R | | |

6.3 EUT Setup

- 1. The conducted emission tests were performed in the test site, using the setup in accordance with the ANSI C63.10:2013.
- 2. The AC/DC Power adaptor of EUT was plug-in LISN. The EUT was placed flushed with the rear of the table.
- 3. The LISN was connected with 120Vac/60Hz power source.

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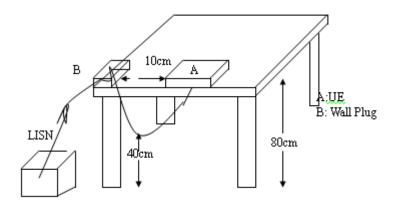
^{1.} The lower limit shall apply at the transition frequencies

^{2.} The limit decreases linearly with the logarithm of the frequency in the range 0.15 MHz to 0.50 MHz.



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6.4 Test SET-UP (Block Diagram of Configuration)



6.5 Measurement Procedure

- 1. The EUT was placed on a table which is 0.8m above ground plane.
- 2. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 3. Repeat above procedures until all frequency measured were complete.

6.6 Measurement Result

Note: Refer to next page for measurement data and plots.

Note2: The * reveals the worst-case results that closet to the limit.

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AC POWER LINE CONDUCTED EMISSION TEST DATA

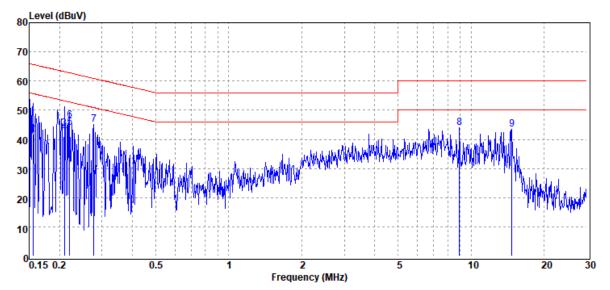
Report Number :ER-2020-B0095 Test Site :Conduction 6F

Test Mode :NFC **Test Date** :2020-12-05

:AC 120V/60Hz Temp./Humi. :23.7/56 Power

Probe :L Engineer :Neo

Note:



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit | Margin |
|-------|------------------|---------------------------|--------|--------------|-------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dΒμV | dΒμV | dB |
| | | | | | | |
| 0.16 | Average | 39.45 | 2.14 | 41.59 | 55.69 | -14.10 |
| 0.16 | QP | 39.59 | 2.14 | 41.73 | 65.69 | -23.96 |
| 0.21 | Average | 41.71 | 2.14 | 43.85 | 53.23 | -9.38 |
| 0.21 | QP | 40.22 | 2.14 | 42.36 | 63.23 | -20.87 |
| 0.22 | Average | 41.74 | 2.14 | 43.88 | 52.79 | -8.91 |
| 0.22 | QP | 44.44 | 2.14 | 46.58 | 62.79 | -16.21 |
| 0.28 | Peak | 43.10 | 2.14 | 45.24 | 60.90 | -15.66 |
| 8.96 | Peak | 41.13 | 2.78 | 43.91 | 60.00 | -16.09 |
| 14.75 | Peak | 40.46 | 2.97 | 43.43 | 60.00 | -16.57 |

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Report Number :ER-2020-B0095

Test Mode :NFC

:AC 120V/60Hz Power

Probe :N

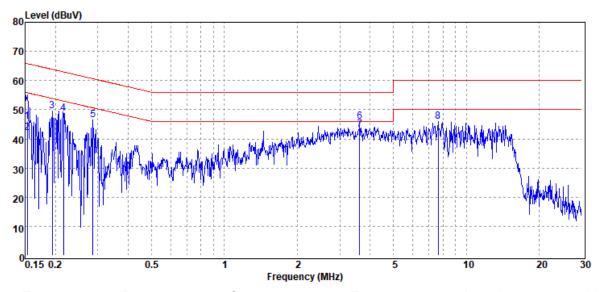
Note:

Test Site :Conduction 6F

Test Date :2020-12-05

Temp./Humi. :23.7/56

Engineer :Neo



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit | Margin |
|-------|------------------|---------------------------|--------|--------------|-------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dΒμV | dΒμV | dB |
| | | | | | | |
| 0.15 | Average | 43.76 | 2.21 | 45.97 | 55.82 | -9.85 |
| 0.15 | QP | 39.89 | 2.21 | 42.10 | 65.82 | -23.72 |
| 0.19 | Peak | 47.41 | 2.21 | 49.62 | 63.84 | -14.22 |
| 0.22 | Peak | 46.59 | 2.21 | 48.80 | 62.96 | -14.16 |
| 0.29 | Peak | 44.24 | 2.21 | 46.45 | 60.63 | -14.18 |
| 3.62 | Average | 43.53 | 2.39 | 45.92 | 46.00 | -0.08 |
| 3.62 | QP | 40.75 | 2.39 | 43.14 | 56.00 | -12.86 |
| 7.65 | Peak | 43.23 | 2.61 | 45.84 | 60.00 | -14.16 |

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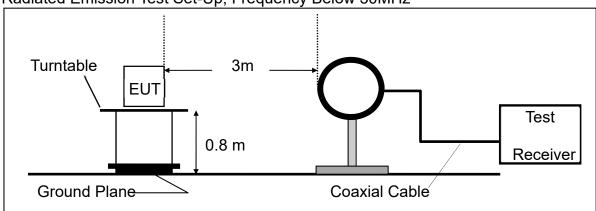
RADIATED EMISSION TEST

Measurement Procedure

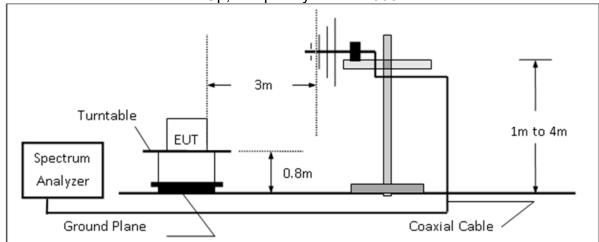
- 1. Configure the EUT according to ANSI C63.10.
- 2. The EUT was placed on a turn table which is 0.8m above ground plane and been measured in the frequency range between 0.009MHz to 30MHz and 30MHz to 1GHz.
- 3. The turn table shall rotate 360 degrees to determine the position of maximum emission level.
- 4. EUT is set 3m away from the receiving antenna which varied from 1m to 4m to find out the highest emission.
- 5. Maximum procedure was performed on the six highest emissions to ensure EUT compliance.
- 6. And also, each emission was to be maximized by changing the polarization of receiving antenna both horizontal and vertical.
- 7. Repeat above procedures until all default test channel measured were complete.

7.2 Test SET-UP (Block Diagram of Configuration)

(A) Radiated Emission Test Set-Up, Frequency Below 30MHz



Radiated Emission Test Set-Up, Frequency Below 1000MHz



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7.3 Measurement Equipment Used:

| | SGS 966 Chamber | | | | | | | | |
|----------------------|-----------------|------------------------|----------------------|---------------------|--------------------|--|--|--|--|
| Name of Equipment | Manufacturer | Model | Serial Number | Calibration Date | Calibration Due | | | | |
| Bi-log Antenna | TESEO | CBL 6112D | 35242 & AT- N0555 | 01/13/2020 | 01/12/2021 | | | | |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 10/19/2020 | 10/18/2021 | | | | |
| Spectrum Analyzer | Agilent | E4446A | MY51100003 | 10/29/2020 | 10/28/2021 | | | | |
| EMI Test Receiver | R&S | ESCI 7 | 100759 | 07/13/2020 | 07/12/2021 | | | | |
| Pre-Amplifier | HP | 8447D | 2944A09469 | 01/02/2020 | 01/01/2021 | | | | |
| Coaxial Cable | Huber Suhner | succoflex 102 | MY2622/2 | 01/02/2020 | 01/01/2021 | | | | |
| Coaxial Cable | Huber Suhner | succoflex 104A | 800086/4a | 01/02/2020 | 01/01/2021 | | | | |
| Coaxial Cable | Huber Suhner | EMC 104-SM- SM-2000 | 160123 | 01/02/2020 | 01/01/2021 | | | | |

7.4 Field Strength Calculation

The field strength is calculated by adding the Antenna Factor and Cable Factor and subtracting the Amplifier Gain and Duty Cycle Correction Factor (if any) from the measured reading. The basic equation with a sample calculation is as follows:

$$FS = RA + AF + CL - AG$$

| Where | FS = Field Strength | CL = Cable Attenuation Factor (Cable Loss) |
|-------|------------------------|--|
| | RA = Reading Amplitude | AG = Amplifier Gain |
| | AF = Antenna Factor | |

7.5 Field Strength of Fundamental Emission

7.5.1 **Applicable standard**

| Rules and specifiactions | CFR 47 P | CFR 47 Part 15 section 15.225(a)-(d) | | | |
|-----------------------------|-----------------------------|--------------------------------------|------------------------------|--|--|
| Frequency of Emission (MHz) | Field Strength (µV/m)at 30m | Field Strength (dBµV/m)at 30m | Field Strength (dBµV/m)at 3m | | |
| 1.705~13.110 | 30 | 29.5 | 69.5 | | |
| 13.110~13.410 | 106 | 40.5 | 80.5 | | |
| 13.410~13.553 | 334 | 50.5 | 90.47 | | |
| 13.553~13.567 | 15848 | 84 | 124 | | |
| 13.567~13.710 | 334 | 50.5 | 90.47 | | |
| 13.710~14.010 | 106 | 40.5 | 80.5 | | |
| 14.010~30.00 | 30 | 29.5 | 69.5 | | |

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7.5.2 **Distance Extrapolation Factor**

30m to 3m

Distance extrapolation = 40 * log (30/3) = 40 dB

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 40 = 124.00dBuV/m

30m to 10m

Distance extrapolation = 40 *log (30/10) = 19.08 dB

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 19.08 = 103.08dBuV/m

10m to 3m

Distance extrapolation = 40 * log (10/3) = 20.92 dB

Limit is re-adjusted in terms of limit taken in 3m = 20 *log (15848 uV/m) + 20.92 = 104.92dBuV/m

Note:

- 1. Emission level in dBuV/m=20 log (μV/m)
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 3. The lower limit shall apply at the transition frequencies.
- 4. KDB 414788 D01 OATS and 3m semi-anechoic chamber Justification: Base on FCC 15.31 (f) (2): measurements may be performed at a distance closer than that specified in the regulations; however, an attempt should be made to avoid making measurements in the near field. OATS and 3m SAC chamber testing had been performed and 3m SAC measured test result is the worst case test result.

Actual FS(dB μ V/m) = Spectrum. Reading level(dB μ V) + Factor(dB)

Factor(dB) = Antenna Factor(dBµV/m) + Cable Loss(dB) – Pre_Amplifier Gain(dB)

The trace on RE(radiation emission) plot is as colored blue, and the detection manner we've employed is peak detector.

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7.5.3 Field Strength of Fundamental Emission Measurement Result

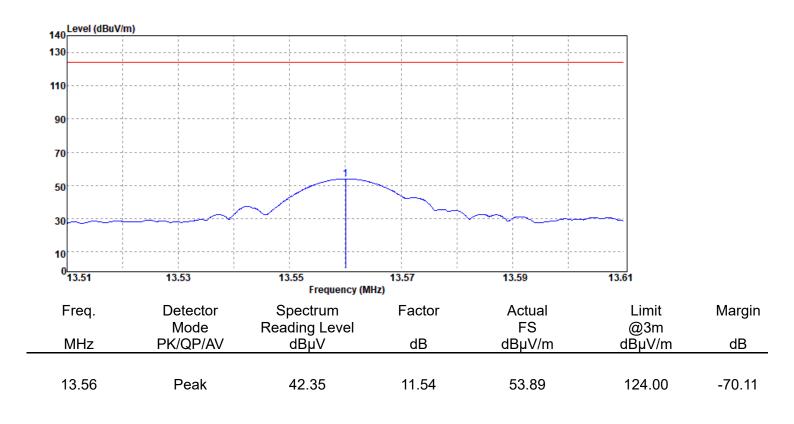
Report Number :ER/2020/C0016 Test Site :SAC I Chamber

Operation Mode :NFC Test Date :2020-12-16

Test Frequency :13.56 MHz Temp./Humi. :22.5/60

Test Mode :Main Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Neo Tsai



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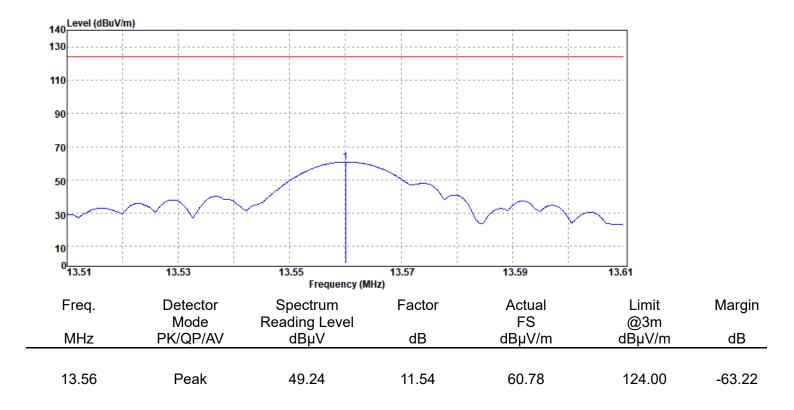
Report Number :ER/2020/C0016 Test Site :SAC I Chamber

Operation Mode :NFC Test Date :2020-12-16

Test Frequency :13.56 MHz Temp./Humi. :22.5/60

Test Mode :Main Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Neo Tsai



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Report Number :ER/2020/C0016

Operation Mode :NFC

Test Frequency :13.56 MHz

Test Mode :Mask

EUT Pol :H Plane

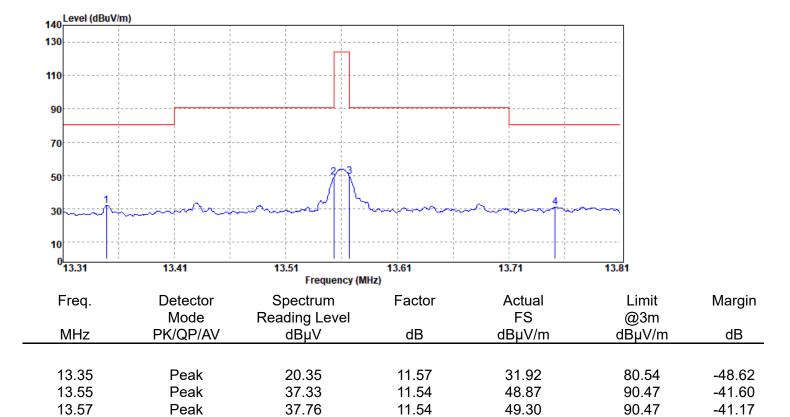
Test Site :SAC I Chamber

Test Date :2020-12-16

Temp./Humi. :22.5/60

Antenna Pol. :VERTICAL

Engineer :Neo Tsai



11.52

30.92

80.50

-49.58

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13.75



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Report Number :ER/2020/C0016 Te

Operation Mode :NFC

Test Frequency :13.56 MHz

Test Mode :Mask

EUT Pol :H Plane

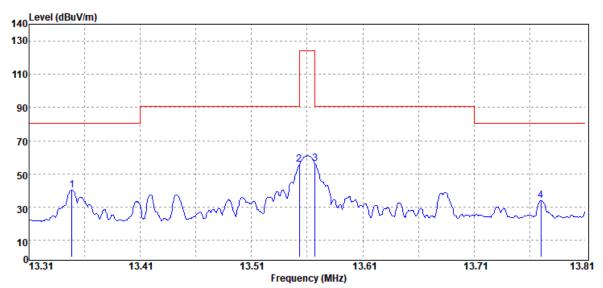
Test Site :SAC I Chamber

Test Date :2020-12-16

Temp./Humi. :22.5/60

Antenna Pol. :HORIZONTAL

Engineer :Neo Tsai



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|----------------|------------------|---------------------------|----------------|----------------|----------------|------------------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| 13.35 | Peak | 28.55 | 11.57 | 40.12 | 80.54 | -40.42 |
| 13.55 | Peak | 44.04 | 11.54 | 55.58 | 90.47 | -34.89 |
| 13.57 13.77 | Peak Peak | 44.77 22.29 | 11.54 11.52 | 56.31 33.81 | 90.47 80.50 | -34.16 -46.69 |

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7.6 Radiated Spurious Emission Measurement

7.6.1 Standard Applicable

The field strength of any emissions appearing outside of the 13.110-14.010 MHz shall not exceed the general radiated emission limits in section 15.209 as below.

| Frequency (MHz) | Field strength (μV/m) | Distance (meters) |
|--------------------|--------------------------|----------------------|
| 0.009~0.490 | 2400/F(kHz) | 300 |
| 0.490~1.705 | 24000/F(kHz) | 30 |
| 1.705-30 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Note:

- Emission level in $dB\mu V/m=20 \log (\mu V/m)$
- 2. Distance extrapolation factor = 40 log (required distance/ test distance) (dB)
- 20*log(30uV/m) + 40dB = 69.54 dBuV/m
- The lower limit shall apply at the transition frequencies.
- The measurement was undertaken in closer distance at 3m, where extrapolation factor is offset to convert the limit of the measurement.
- Only spurious frequency is permitted to locate within the Restricted Bands specified in provision of §15.205.
- 7. The general radiated emission limits in §15.209 apply for the spurious emission generate from UE, except for the fundamental emission where the respective section specifies otherwise.

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7.6.2 **Radiated Spurious Emission Measurement Result**

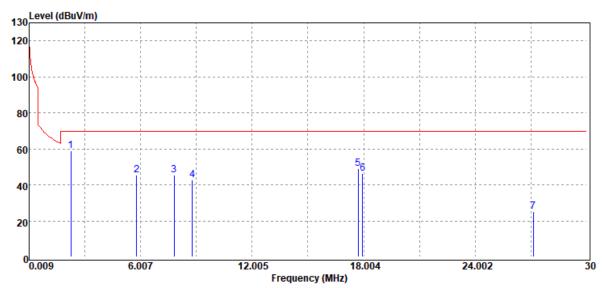
Report Number :ER/2020/C0016 Test Site :SAC I Chamber

:NFC **Test Date Operation Mode** :2020-12-16

Test Frequency Temp./Humi. :13.56 MHz :22.5/60

Test Mode :TX Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Neo Tsai



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | |
| 2.26 | Peak | 47.63 | 11.29 | 58.92 | 69.54 | -10.62 |
| 5.80 | Peak | 34.06 | 11.39 | 45.45 | 69.54 | -24.09 |
| 7.81 | Peak | 33.75 | 11.75 | 45.50 | 69.54 | -24.04 |
| 8.80 | Peak | 30.94 | 11.90 | 42.84 | 69.54 | -26.70 |
| 17.70 | Peak | 37.97 | 11.10 | 49.07 | 69.54 | -20.47 |
| 17.94 | Peak | 35.39 | 11.08 | 46.47 | 69.54 | -23.07 |
| 27.12 | Peak | 15.84 | 9.26 | 25.10 | 69.54 | -44.44 |

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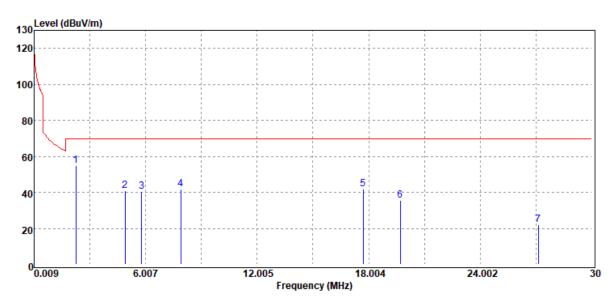
Report Number **Test Site** :SAC I Chamber :ER/2020/C0016

Operation Mode :NFC **Test Date** :2020-12-16

Test Frequency :13.56 MHz Temp./Humi. :22.5/60

Test Mode :TX Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Neo Tsai



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|-------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBμV/m | dBμV/m | dB |
| | | | | | | |
| 2.26 | Peak | 43.66 | 11.29 | 54.95 | 69.54 | -14.59 |
| 4.90 | Peak | 29.55 | 11.21 | 40.76 | 69.54 | -28.78 |
| 5.80 | Peak | 29.26 | 11.39 | 40.65 | 69.54 | -28.89 |
| 7.90 | Peak | 30.17 | 11.77 | 41.94 | 69.54 | -27.60 |
| 17.70 | Peak | 30.96 | 11.10 | 42.06 | 69.54 | -27.48 |
| 19.71 | Peak | 24.76 | 10.92 | 35.68 | 69.54 | -33.86 |
| 27.12 | Peak | 12.98 | 9.26 | 22.24 | 69.54 | -47.30 |

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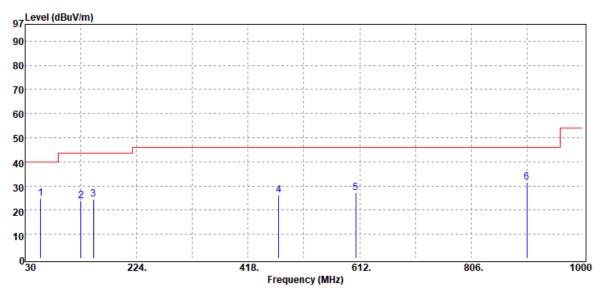
Report Number Test Site :SAC I Chamber :ER/2020/C0016

Operation Mode :NFC **Test Date** :2020-12-16

Test Frequency :13.56 MHz Temp./Humi. :22.5/60

Test Mode :TX Antenna Pol. :VERTICAL

EUT Pol :H Plane Engineer :Neo Tsai



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBμV/m | dB |
| | | | | | | |
| 57.16 | Peak | 41.59 | -16.69 | 24.90 | 40.00 | -15.10 |
| 127.00 | Peak | 35.16 | -11.19 | 23.97 | 43.50 | -19.53 |
| 149.31 | Peak | 36.73 | -12.10 | 24.63 | 43.50 | -18.87 |
| 471.35 | Peak | 31.63 | -5.49 | 26.14 | 46.00 | -19.86 |
| 605.21 | Peak | 30.36 | -3.30 | 27.06 | 46.00 | -18.94 |
| 903.00 | Peak | 30.65 | 1.02 | 31.67 | 46.00 | -14.33 |

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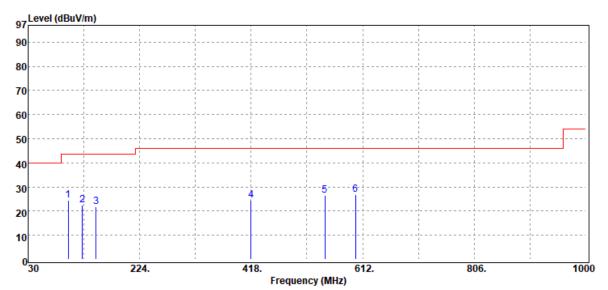
Report Number **Test Site** :SAC I Chamber :ER/2020/C0016

Operation Mode :NFC **Test Date** :2020-12-16

Test Frequency :13.56 MHz Temp./Humi. :22.5/60

Test Mode :TX Antenna Pol. :HORIZONTAL

EUT Pol :H Plane Engineer :Neo Tsai



| Freq. | Detector Mode | Spectrum Reading Level | Factor | Actual FS | Limit @3m | Margin |
|--------|------------------|---------------------------|--------|--------------|--------------|--------|
| MHz | PK/QP/AV | dΒμV | dB | dBµV/m | dBµV/m | dB |
| | | | | | | |
| 99.84 | Peak | 37.01 | -12.56 | 24.45 | 43.50 | -19.05 |
| 124.09 | Peak | 33.59 | -11.22 | 22.37 | 43.50 | -21.13 |
| 148.34 | Peak | 33.88 | -11.98 | 21.90 | 43.50 | -21.60 |
| 418.00 | Peak | 29.88 | -5.21 | 24.67 | 46.00 | -21.33 |
| 546.04 | Peak | 30.75 | -4.27 | 26.48 | 46.00 | -19.52 |
| 599.39 | Peak | 30.42 | -3.42 | 27.00 | 46.00 | -19.00 |

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FREQUENCY STABILITY

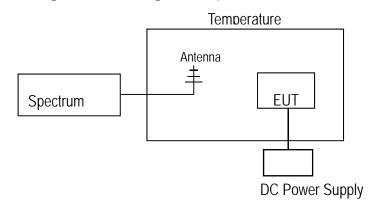
8.1 Applicable Standard

The frequency tolerance of the carrier signal shall be maintained within +/- 0.01% of the operating frequency over a temperature variation of -20 degrees to +50 degrees C at normal supply voltage. and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C. For battery operated equipment, the equipment tests shall be performed using a new battery.

8.2 Measurement Procedure

- 1. The EUT was placed on a turn table which is 0.8m above ground plane.
- 2. Set EUT as normal operation
- 3. Set SPA Center Frequency = fundamental frequency, RBW, VBW= 10kHz, Span =100kHz.
- Set SPA Max hold. Mark peak.

Test SET-UP (Block Diagram of Configuration)



Measurement Equipment Used:

| Conducted Emission Test Site | | | | | | | | |
|------------------------------|--------------|-----------------|------------------|--------------|------------|--|--|--|
| EQUIPMENT TYPE | MFR | MODEL NUMBER | SERIAL NUMBER | LAST CAL. | CAL DUE. | | | |
| Loop Antenna | ETS.LINDGREN | 6502 | 148045 | 10/19/2020 | 10/18/2021 | | | |
| EXA Spectrum Analyzer | KEYSIGHT | N9010A | MY54200716 | 04/01/2020 | 03/31/2021 | | | |

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8.5 Measurement Results

Startup

A. Temperature Variation

| 71. Tomporataro ve | x | | | |
|--------------------|-----------------|------------|-------------|--------------|
| Power Supply | Environment | Frequency | Delta (KHz) | Limit (KHz) |
| Vdc | Temperature (℃) | (MHz) | Della (KHZ) | LIIIII (KHZ) |
| 3.85 | -20 | 13.5600014 | 0.00350 | +/- 1.356 |
| 3.85 | -10 | 13.55999 | 0.01490 | +/- 1.356 |
| 3.85 | 0 | 13.5600063 | -0.00140 | +/- 1.356 |
| 3.85 | 10 | 13.559998 | 0.00690 | +/- 1.356 |
| 3.85 | 20 | 13.5600049 | 0.00000 | +/- 1.356 |
| 3.85 | 30 | 13.5599927 | 0.01220 | +/- 1.356 |
| 3.85 | 40 | 13.5599938 | 0.01110 | +/- 1.356 |
| 3.85 | 50 | 13.5599905 | 0.01440 | +/- 1.356 |

B. Supply Voltage Variation

| Power Supply | Environment | Frequency | Dolto (KUz) | Limit (KHz) |
|--------------|------------------|------------|-------------|--------------|
| Vdc | Temperature (°ℂ) | (MHz) | Delta (KHz) | LIIIII (KHZ) |
| 4 | 20 | 13.5599905 | 0.01820 | +/- 1.356 |
| 3.85 | 20 | 13.5600087 | 0.00000 | +/- 1.356 |
| 3.7 | 20 | 13.5600088 | -0.00010 | +/- 1.356 |

Startup

A. Temperature Variation

| Power Supply | Environment | Frequency | Dolto (KUz) | Limit (KHz) |
|--------------|------------------|------------|-------------|--------------|
| Vdc | Temperature (°ℂ) | (MHz) | Delta (KHz) | LIIIII (KHZ) |
| 3.85 | -20 | 13.5600014 | 0.00350 | +/- 1.356 |
| 3.85 | -10 | 13.55999 | 0.01490 | +/- 1.356 |
| 3.85 | 0 | 13.5600063 | -0.00140 | +/- 1.356 |
| 3.85 | 10 | 13.559998 | 0.00690 | +/- 1.356 |
| 3.85 | 20 | 13.5600049 | 0.00000 | +/- 1.356 |
| 3.85 | 30 | 13.5599927 | 0.01220 | +/- 1.356 |
| 3.85 | 40 | 13.5599938 | 0.01110 | +/- 1.356 |
| 3.85 | 50 | 13.5599905 | 0.01440 | +/- 1.356 |

B. Supply Voltage Variation

| Power Supply | Environment | Frequency | Delta (KHz) | Limit (KHz) |
|--------------|------------------|------------|-------------|-------------|
| Vdc | Temperature (°ℂ) | (MHz) | Deita (KHZ) | |
| 4 | 20 | 13.5599905 | 0.01820 | +/- 1.356 |
| 3.85 | 20 | 13.5600087 | 0.00000 | +/- 1.356 |
| 3.7 | 20 | 13.5600088 | -0.00010 | +/- 1.356 |

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5 minutes

A. Temperature Variation

| · · · · · · · · · · · · · · · · · · · | | | | | |
|---------------------------------------|------------------|------------|-------------|--------------|--|
| Power Supply | Environment | Frequency | Dolto (KUz) | Limit (KHz) | |
| Vdc | Temperature (°ℂ) | (MHz) | Delta (KHz) | LIIIII (KHZ) | |
| 3.85 | -20 | 13.5600057 | -0.00490 | +/- 1.356 | |
| 3.85 | -10 | 13.5600075 | -0.00670 | +/- 1.356 | |
| 3.85 | 0 | 13.5599937 | 0.00710 | +/- 1.356 | |
| 3.85 | 10 | 13.5600089 | -0.00810 | +/- 1.356 | |
| 3.85 | 20 | 13.5600008 | 0.00000 | +/- 1.356 | |
| 3.85 | 30 | 13.56 | 0.00080 | +/- 1.356 | |
| 3.85 | 40 | 13.5600037 | -0.00290 | +/- 1.356 | |
| 3.85 | 50 | 13.5600081 | -0.00730 | +/- 1.356 | |

B. Supply Voltage Variation

| | | _ | | |
|--------------|------------------|------------|--------------|-------------|
| Power Supply | Environment | Frequency | Delta (KHz) | Limit (KUz) |
| Vdc | Temperature (°ℂ) | (MHz) | Deita (Kriz) | Limit (KHz) |
| 4 | 20 | 13.5600084 | -0.00860 | +/- 1.356 |
| 3.85 | 20 | 13.5599998 | 0.00000 | +/- 1.356 |
| 3.7 | 20 | 13.559995 | 0.00480 | +/- 1.356 |

10 minutes

A. Temperature Variation

| Power Supply | Environment | Frequency | Delta (KHz) | Limit (KHz) |
|--------------|------------------|------------|-------------|--------------|
| Vdc | Temperature (°ℂ) | (MHz) | Della (KHZ) | LIIIII (KHZ) |
| 3.85 | -20 | 13.5600066 | -0.00810 | +/- 1.356 |
| 3.85 | -10 | 13.5599918 | 0.00670 | +/- 1.356 |
| 3.85 | 0 | 13.5600074 | -0.00890 | +/- 1.356 |
| 3.85 | 10 | 13.5599931 | 0.00540 | +/- 1.356 |
| 3.85 | 20 | 13.5599985 | 0.00000 | +/- 1.356 |
| 3.85 | 30 | 13.5599905 | 0.00800 | +/- 1.356 |
| 3.85 | 40 | 13.5599937 | 0.00480 | +/- 1.356 |
| 3.85 | 50 | 13.5599934 | 0.00510 | +/- 1.356 |

B. Supply Voltage Variation

| Power Supply | Environment | Frequency | Delta (KHz) | Limit (KHz) |
|--------------|------------------|------------|--------------|----------------|
| Vdc | Temperature (°ℂ) | (MHz) | Deita (Kriz) | LIIIII (KI IZ) |
| 4 | 20 | 13.5599932 | 0.01590 | +/- 1.356 |
| 3.85 | 20 | 13.5600091 | 0.00000 | +/- 1.356 |
| 3.7 | 20 | 13.5599924 | 0.01670 | +/- 1.356 |

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20 dB OCCUPIED BANDWIDTH MEASUREMENT

9.1 Applicable Standard:

The 20 dB bandwidth shall be specified in operating frequency band.

9.2 Limit:

None

9.3 Test Set-up

Refer to section 8.3 in this report

9.4 Measurement Equipment Used:

Refer to section 8.4 in this report

9.5 Measurement Procedure

- 1. Placed the EUT on the testing table.
- 2. Set the EUT under transmission condition continuously at specific channel frequency.
- 3. The resolution bandwidth of 1 kHz and the video bandwidth of 3 kHz were used.
- 4. Measured the spectrum width with power higher than 20dB below carrier.

9.6 Measurement Result

| FCC | | | |
|---------------|----------------|-----------------|-------------|
| 20dB BW (kHz) | Opration range | Frequency (MHz) | Limit (MHz) |
| 2.293 | Low | 13.55900 | >13.11 |
| | High | 13.56110 | <14.01 |

Bandwidth



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Operation range low



Operation range High



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10 ANTENNA REQUIREMENT

10.1 Standard Applicable:

For intentional device, according to §15.203, an intentional radiator shall be designed to ensure that no antenna other than furnished by the responsible party shall be used with the device.

10.2 Antenna Connected Construction:

The antenna is designed as permanently attached and no consideration of replacement. Please see EUT photo for details.

~ End of Report ~

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