

FCC ID: 2AQYEFMP180 Report No.: MH/2020/80042

Page: 1 of 24

FCC CERTIFICATION REPORT

Test Report No. : MH/2020/80042

Applicant : FUJITSU CONNECTED TECHNOLOGIES Ltd.

Address : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

: FUJITSU CONNECTED TECHNOLOGIES Ltd. Manufacturer

Address : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007, Japan

Equipment Under Test (EUT):

Product Name : Smart Phone

Brand Name : FUJITSU

: F-52A Model No. Added Model(s) : N/A

Standards : FCC Part 15 Subpart B, Class B

FCC Designation Numbers: 916890 / TW1087

Date of Sample Receipt: Aug. 11th, 2020

Date of Test : Aug. 15th ~ Sep. 24th, 2020

: Sep. 26th, 2020 Date of Issue

Test Result: **PASS**

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

Remarks:

This report details the results of the testing carried out on one sample, the results contained in this test report do not relate to other samples of the same product. The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report.

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Approved By

Eddy Cheng (Asst. Supervisor)

Date

Sep. 26th, 2020

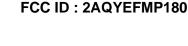




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Page: 2 of 24

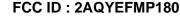
| Revision History | | | | | |
|------------------|--|-----------------|---------------|--|--|
| Revision | Revision Description Issue Date Remark | | | | |
| 00 | Original. | Sep. 26th, 2020 | MH/2020/80042 | | |

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Page: 3 of 24

Contents

| 1. GENERAL INFORMATION | 4 |
|---|----|
| 1.1 APPLICANT & MANUFACTURER INFORMATION | 4 |
| 1.2 GENERAL DESCRIPTION OF EUT | 4 |
| 1.3 DETAILS OF EUT | 4 |
| 1.4 DESCRIPTION OF SUPPORT UNITS | 6 |
| 1.5 OPERATION PROCEDURE | 6 |
| 1.6 MODIFICATION LIST | 7 |
| 1.7 ACCESSORIES CABLE LIST | 7 |
| 1.8 TEST SET-UP CONFIGURATION | 7 |
| 1.9 MEASUREMENT PROCEDURE | 8 |
| 1.10 STANDARDS APPLICABLE FOR TESTING | 8 |
| 1.11 DECISION RULES OF RESULTS | 8 |
| 1.12 SUMMARY OF RESULTS | 8 |
| 1.13 REPORTING STATEMENTS OF CONFORMITY | 8 |
| 2. EMISSION | 9 |
| 2.1 Test Results | 0 |
| 2.2 FREQUENCY RANGE | |
| 2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION | |
| 2.3.1 LIMITS OF CONDUCTED EMISSION | |
| 2.3.2 LIMITS OF RADIATED EMISSION | |
| 2.4.Test of Conducted Emissions | |
| 2.4.1 TEST EQUIPMENTS | |
| 2.4.2 MEASUREMENT LEVEL CALCULATION | |
| 2.4.3 MEASUREMENT DATA: | |
| | |
| 2.5 TEST OF RADIATED EMISSION | |
| 2.5.1 TEST EQUIPMENTS | |
| 2.5.2 MEASUREMENT LEVEL CALCULATION | |
| 2.5.3 MEASUREMENT DATA | 16 |
| 3. PHOTOGRAPHS OF TEST | 22 |

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Report No.: MH/2020/80042

Page: 4 of 24

1. General Information

1.1 Applicant & Manufacturer Information

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Address of Applicant : Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007,

Japan

Manufacturer : FUJITSU CONNECTED TECHNOLOGIES Ltd.

Address of Manufacturer: Chuorinkan 7-10-1 Yamato, Kanagawa 242-0007,

Japan

1.2 General Description of EUT

Product Name : Smart Phone

Brand Name : FUJITSU

Model No. : F-52A

Added Model(s) : N/A

Model Difference: N/A

1.3 Details of EUT

Power Supply : AC 100~240V, 50~60Hz

Modes/Function : Mode 1. ADP + Earphone + WiFi Link(2.4G) +

NFC OFF + BT Link + GPS/Glonass Link

+ SD Card + GSM: 850 Link

Mode 2. ADP + Earphone + WiFi Idle + NFC OFF

+ BT Idle + GPS/Glonass Idle + SD Card

+ GSM: 1900 Idle

Mode 3. WiFi Link(2.4G) + NFC ON(Standalone)

+ BT Link + GPS/Glonass Link + SD

Card + GSM : 850 (Worst) Single

Mode 4. ADP + Earphone + WiFi Idle + NFC OFF

+ BT Idle + GPS/Glonass Idle + SD Card

+ WCDMA: B V Link

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Report No.: MH/2020/80042

Page: 5 of 24

Mode 5. ADP + Earphone + WiFi Link(5G) + NFC OFF + BT Link + GPS/Glonass Link + SD Card + LTE : B5 Link

Mode 6. ADP + Earphone + Camera Rear REC +
Worst WiFi (5G) Link + NFC OFF + BT
Stand by + GPS/Glonass Link + SD Card

Mode 7. ADP + Earphone + Camera Front REC+ Worst WiFi (5G) Link + NFC OFF + BT Stand by + GPS/Glonass Link+ SD Card

Mode 8. Worst WiFi (5G) Link + BT Link +
GPS/Glonass Link + Earphone + SD
Card + USB Cable to NB(SD Write)

Mode 9. Worst WiFi (5G) Link + BT Link +
GPS/Glonass Link + Earphone + SD
Card + USB Cable to NB(SD Read)

Mode 10 For Audio breakthrough measurement (worst mode GSM900) NO Earphone

Worst case

. CE Worst case:

Mode 1. ADP + Earphone + WiFi Link(2.4G) +
NFC OFF + BT Link + GPS/Glonass Link
+ SD Card + GSM : 850 Link

Below 1GHz RE Worst case:

Mode 1. ADP + Earphone + WiFi Link(2.4G) +
NFC OFF + BT Link + GPS/Glonass Link
+ SD Card + GSM: 850 Link

Above 1GHz RE Worst case:

Mode 8. Worst WiFi (5G) Link + BT Link +
GPS/Glonass Link + Earphone + SD
Card + USB Cable to NB(SD Write)

Highest internal frequency : 5725MHz

Battery : Model No.: CA54310-0081

3.85V, 3500mAh, 13.47Wh(Rated), 3600mAh, 13.86Wh(Typical)

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Page: 6 of 24

1.4 Description of Support Units

| PRODUCT | MANUFACTURER | MODEL NO. | SERIAL NO. |
|------------------------------|--------------|---------------------|-----------------------|
| SIM Card | R&S | CMW-Z05 | 8952530076180138474 |
| Micro SD | Transcend | Micro SDHC (Class4) | N/A |
| Earphone | htc | N/A | N/A |
| BT Speaker | Creative | MF8090 | YFMF8090245R00855Y |
| Radio Communication Analyzer | R&S | CMU200 | 102189 |
| Radio Communication Analyzer | R&S | CMW500 | 1201.002K50-152303-Zr |
| AP | BUFFALO | WZR-HP-G300NH2 | 44066221202559[[G]] |
| GPS Signal Generator | Spectracom | GSG53 GNSS4 | 200218 |
| Notebook (Win10) | DELL | P56F | 59WSJ72 |
| Mouse | Logitech | M-U0026 | 1738HS05FGU8 |
| Adapter | HOSIDEN | ACアダプタ 06 | N/A |

Support Equipment Used in Tested Cable

| Cable Type | Core | Length | Shielding/Non-shielding |
|----------------|---------|--------|-------------------------|
| DC power cable | Near AE | 1.15m | Shielding |
| USB cable | N/A | 1m | Shielding |
| Earphone cable | N/A | 1.8m | Non-shielding |

1.5 Operation Procedure

Mode 1

- 1. Let EUT install SIM Card & SD Card and connect to Adapter & Earphone.
- 2. Turn on WiFi and AP connection of EUT, turn on Bluetooth and connect to Bluetooth speaker, turn off NFC, turn on GPS and connect with GPS simulator, and plays 1KHz in SD Card.
- 3. Turn on GSM and talk to CMU200 (GSM850).
- 4. Start the test.

Mode 8

- 1. Use USB Cable to connect EUT to NB and connect to Earphone.
- 2. Turn on WiFi and AP connection of EUT, turn on Bluetooth and connect to Bluetooth speaker, turn on GPS and connect with GPS simulator, SD Card Write NB data.
- 3. Start the test.

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Page: 7 of 24



1.6 Modification List

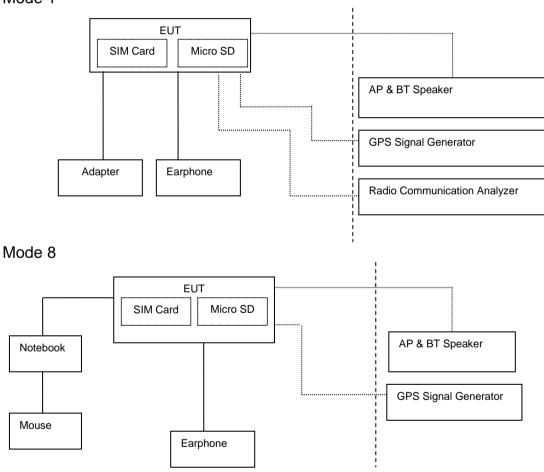
No modification was made by SGS Taiwan Electromagnetic Compatibility Laboratory.

1.7 Accessories Cable List

| Cable Type | Core | Length | Shielding/Non-shielding |
|------------|------|--------|-------------------------|
| N/A | N/A | N/A | N/A |

1.8 Test Set-Up Configuration

Mode 1



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Report No.: MH/2020/80042

Page: 8 of 24

1.9 Measurement Procedure

Conducted Emission Testing was performed according to ANSI C63.4:2014 in a shielded room with peripherals placed on a table, 0.8m high over a metal floor. It was located more than required distance away from the shielded room wall.

Radiated Emission Testing was performed according to ANSI C63.4:2014 at the 3/10m semi-anechoic chamber. The EUT was placed on a 0.8m high table along with the peripherals. The turn table was placed 10m distance from the antenna. Cables were placed in a position to produce maximum emissions as determined by experimentation, and operation mode was selected for production of maximum emission.

The frequencies and amplitudes of maximum emission were measured at varying azimuths, antenna heights and antenna polarities. Maximum emission levels are then reported.

1.10 Standards Applicable for Testing

Tests to be carried out under FCC Part 15 Subpart B/CISPR 22

| Test Standards | Status |
|------------------------------------|--------------|
| FCC Part 15 Subpart B/ CISPR 22 | Applicable |
| Deviation from Standard | No deviation |

1.11 Decision Rules of Results

Reported measurement data comply with ANSI C63.4:2014

Determining compliance shall be based on the results of the compliance measurement, not taking into account measurement instrumentation uncertainty.

1.12 Summary of Results

| Highest Emission | | | | | |
|-----------------------------------|--------------------|------|------------------|----------------|-------------|
| Standard Test Type Result Phase/P | | | | Frequency(MHz) | Margin(dB) |
| FCC Part 15 Subpart B, Class B | Conducted Emission | DACC | Line | 4.5104 | -12.87 (QP) |
| | Conducted Emission | PASS | ASS Line Neutral | 4.7040 | -16.54 (QP) |
| | Radiated Emission | PASS | Ver. | 935.0100 | -6.74 (QP) |

1.13 Reporting Statements of Conformity

The conformity statement in this report is based solely on the test results, measurement uncertainty is excluded.

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FCC ID: 2AQYEFMP180 Report No.: MH/2020/80042

Page: 9 of 24

2. EMISSION

2.1 Test Results

| | Results |
|--------------------|---------|
| Conducted Emission | Pass |
| Radiated Emission | Pass |

2.2 Frequency Range

FCC Part 15 Subpart B:

Conducted Emission : 150 kHz - 30 MHz Radiated Emission : See below table

Highest frequency generated or Upper frequency of measurement used in the device or on which the range (MHz)

device operates or tunes (MHz)

Below 1.705 30 1.705 - 108 1000 108 - 500 2000 500 - 1000 5000

Above 1000 5th harmonic of the highest frequency or

40 GHz, whichever is lower

2.3 Limits of Conducted and Radiated Emission

2.3.1 Limits of Conducted Emission

FCC Part 15 Subpart B/CISPR 22:

| FREQUENCY | Class A | (dBuV) | Class B (dBuV) | | |
|------------|--------------|---------|----------------|---------|--|
| (MHz) | Quasi - peak | Average | Quasi - peak | Average | |
| 0.15 - 0.5 | 79 | 66 | 66 - 56 | 56 - 46 | |
| 0.50 - 5.0 | 73 | 60 | 56 | 46 | |
| 5.0 - 30.0 | 73 | 60 | 60 | 50 | |

Note: (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 to 0.50 MHz.
- (3) All emanation from a class A/B digital device or system, including any network of conductors and apparatus connected there to, shall not exceed the level of field strengths specified above.

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Page: 10 of 24

2.3.2 Limits of Radiated Emissions

FCC Part 15 Subpart B Limit:

Detector Function : Quasi – Peak

| 2 Detector i arretteri i dader i cart | | | | | |
|---------------------------------------|-------------------|------------------|--|--|--|
| FREQUENCY | Class A (at 10 m) | Class B (at 3 m) | | | |
| (MHz) | dBuV/m | dBuV/m | | | |
| 30~88 | 39 | 40 | | | |
| 88~216 | 43.5 | 43.5 | | | |
| 216~960 | 46.4 | 46 | | | |
| 960~1000 | 49.5 | 54 | | | |

Detector Function: Peak, Average

| FREQUENCY | Class A (dBu | V/m) (at 10 m) | Class B (dBu | ıV/m) (at 3 m) |
|------------|--------------|----------------|--------------|----------------|
| (MHz) | Peak Average | | Peak | Average |
| Above 1000 | 69.5 | 49.5 | 74 | 54 |

CISPR 22 Limit:

Detector Function : Quasi – Peak

| FREQUENCY | Class A (at 10 m) | Class B (at 10 m) | |
|-----------|-------------------|-------------------|--|
| (MHz) | dBuV/m | dBuV/m | |
| 30~230 | 40 | 30 | |
| 230~1000 | 47 | 37 | |

NOTE 1 The lower limit shall apply at the transition frequency.

NOTE 2 Additional provisions may be required for cases where interference occurs.

| FREQUENCY | Class A (dB | uV/m) (at 3 m) | Class B (dBu | uV/m) (at 3 m) |
|-----------|-------------|----------------|--------------|----------------|
| (GHz) | Average | Peak | Average | Peak |
| 1~3 | 56 | 76 | 50 | 70 |
| 3~6 | 60 | 80 | 54 | 74 |

NOTE The lower limit applies at the transition frequency.

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Page: 11 of 24

2.4.Test of Conducted Emission

2.4.1 Test Equipments

| 9 | GS Conducted_Emi | ssion HWAYA C | onducted Roo | m No.A_EMC | |
|-------------------------|-------------------------|---------------|---------------------|------------------|-----------------|
| EQUIPMENT TYPE | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESCI 3 | 101311 | Jul. 08th, 2020 | Jul. 07th, 2021 |
| Coaxial Cables | EMC Instruments Corp | HY-CE-CABLE | HYCE-2000- 01 | May 19th, 2020 | May 18th, 2021 |
| Pulse Limiter | Narda S.T.S. | PMM PL01 | 1110X30602 | Aug. 12th, 2020 | Aug. 11th, 2021 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | Jul. 14th, 2020 | Jul. 13th, 2021 |
| LISN | Schwarzbeck | NSLK 8128 | NSLK8128- 300 | Sep. 16th, 2019 | Sep. 15th, 2020 |
| Communication Tester | R&S | CMU200 | 114273 | May 31th, 2020 | May 30th, 2021 |
| Communication Tester | R&S | CMW500 | 152303 | Feb. 24th, 2020 | Feb. 23th, 2021 |
| Communication Tester | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. |
| Test S/W | Farad | EZ-EMC | Ver. SGS- 03A2-3 | N.C.R. | N.C.R. |

Testing Site: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Conducted Emission

Expanded uncertainty Ulab(K=2) of conducted emission is 2.25 dB

Theory values uncertainty Ucispr 16-4-2:2011+A1_2014 (K=2) of AC mains conducted Emission is 3.44dB

2.4.2 Measurement Level Calculation

Factor = LISN insertion loss + Cable loss + Pulse Limiter insertion loss Measurement Level = Reading Level + Factor Over (Margin) = Measurement Level - Limit

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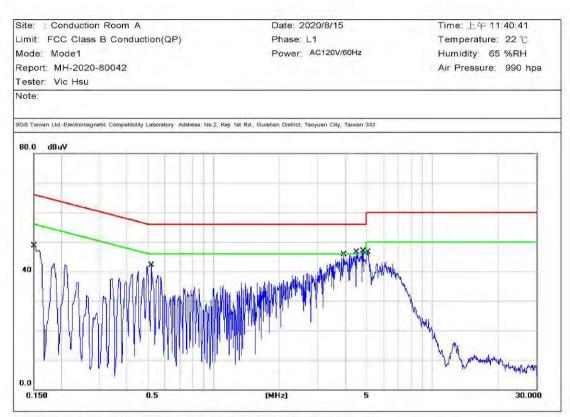
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Page: 12 of 24

2.4.3 Measurement Data:

Model No.:F-52A Mode 1 L



| | | Freq. | Reading | Factor | Measurement | Limit | Over | B | |
|-----|------|--------|---------|--------|-------------|--------|--------|----------|---------|
| No. | Mk – | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | Detector | Comment |
| 1 | | 0.1500 | 45.39 | 0.01 | 45.40 | 66.00 | -20.60 | QP | |
| 2 | | 0.1500 | 31.05 | 0.01 | 31.06 | 56.00 | -24.94 | AVG | |
| 3 | | 0.5190 | 37.37 | 0.01 | 37.38 | 56.00 | -18.62 | QP | |
| 4 | | 0,5190 | 26.74 | 0.01 | 26.75 | 46.00 | -19.25 | AVG | |
| 5 | | 3.9615 | 41.38 | 0.17 | 41.55 | 56.00 | -14.45 | QP | |
| 6 | | 3.9615 | 27.81 | 0.17 | 27.98 | 46.00 | -18.02 | AVG | |
| 7 | * | 4.5104 | 42.95 | 0.18 | 43.13 | 56.00 | -12.87 | QP | |
| 8 | | 4.5104 | 27.52 | 0.18 | 27.70 | 46.00 | -18.30 | AVG | |
| 9 | | 4.8435 | 42.89 | 0.19 | 43.08 | 56.00 | -12.92 | QP | |
| 10 | | 4.8435 | 28.67 | 0.19 | 28.86 | 46.00 | -17.14 | AVG | |
| 11 | | 5.0954 | 42.43 | 0.20 | 42.63 | 60.00 | -17.37 | QP | |
| 12 | | 5.0954 | 27.68 | 0.20 | 27.88 | 50.00 | -22.12 | AVG | |

^{*:} Maximum data x:Over limit !:over margin

Page: 1

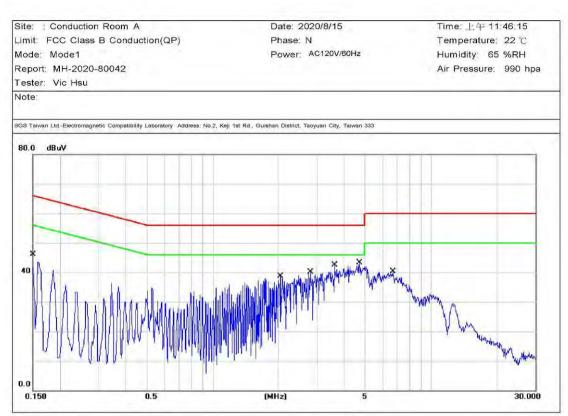
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Page: 13 of 24

Mode_1_N



| | | Freq. | Reading | Factor | Measurement | Limit | Over | 6.4.4. | 0 |
|-----|------|--------|---------|--------|-------------|--------|--------|----------|---------|
| No. | Mk - | (MHz) | (dBuV) | (dB) | (dBuV) | (dBuV) | (dB) | Detector | Comment |
| 1 | | 0.1500 | 43.53 | 0.01 | 43.54 | 66.00 | -22.46 | QP | |
| 2 | | 0.1500 | 28.08 | 0.01 | 28.09 | 56.00 | -27.91 | AVG | |
| 3 | | 2.0490 | 34.73 | 0.14 | 34.87 | 56.00 | -21,13 | QP | |
| 4 | | 2.0490 | 21.51 | 0.14 | 21.65 | 46.00 | -24.35 | AVG | |
| 5 | | 2.8050 | 33.99 | 0.16 | 34.15 | 56.00 | -21.85 | QP | |
| 6 | | 2.8050 | 21.07 | 0.16 | 21.23 | 46.00 | -24.77 | AVG | |
| 7 | | 3.6060 | 35.22 | 0.17 | 35.39 | 56.00 | -20.61 | QP | |
| 8 | | 3,6060 | 22.58 | 0.17 | 22.75 | 46.00 | -23.25 | AVG | |
| 9 | * | 4.7040 | 39.27 | 0.19 | 39.46 | 56.00 | -16.54 | QP | |
| 10 | | 4.7040 | 23.80 | 0.19 | 23.99 | 46.00 | -22.01 | AVG | |
| 11 | | 6.6795 | 34.36 | 0.26 | 34.62 | 60.00 | -25.38 | QP | |
| 12 | | 6.6795 | 25.99 | 0.26 | 26.25 | 50.00 | -23.75 | AVG | |

^{*:} Maximum data x:Over limit !:over margin

Page: 1

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Report No.: MH/2020/80042

Page: 14 of 24

2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

| SGS Radiated Below_1GHz HWAYA 10m_EMC | | | | | | | | | | | | |
|---|-----------------------|-----------------|-------------------------|------------------|-----------------|--|--|--|--|--|--|--|
| EQUIDMENT TYPE | | | _ | O-lib tion B | O-liberties D | | | | | | | |
| EQUIPMENT TYPE | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due | | | | | | | |
| EMI Test Receiver | R&S | ESCI 7 | 100950 | Dec. 11th, 2019 | Dec. 10th, 2020 | | | | | | | |
| EMI Test Receiver | R&S | ESCI 3 | 101343 | Feb. 17th, 2020 | Feb. 16th, 2021 | | | | | | | |
| Broadband Antenna | SCHWAZBECK | VULB9168 | 9168-628 | Sep. 09th, 2019 | Sep. 08th, 2020 | | | | | | | |
| Broadband Antenna | SCHWAZBECK | VULB9168 | 9168-629 | Sep. 09th, 2019 | Sep. 08th, 2020 | | | | | | | |
| Pre Amplifier | EMC Instruments Corp. | EMC330 | 980178 | Mar. 31th, 2020 | Mar. 30th, 2021 | | | | | | | |
| Pre Amplifier | EMC Instruments Corp. | EMC330 | 980179 | Mar. 31th, 2020 | Mar. 30th, 2021 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150917 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150919 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150820 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150918 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150821 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150822 | Sep. 18th, 2019 | Sep. 17th, 2020 | | | | | | | |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 114273 | May 31th, 2020 | May 30th, 2021 | | | | | | | |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | Feb. 24th, 2020 | Feb. 23th, 2021 | | | | | | | |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. | | | | | | | |
| Controller | MF | MF7802 | N/A | N.C.R. | N.C.R. | | | | | | | |
| Controller | MF | MF7802 | N/A | N.C.R. | N.C.R. | | | | | | | |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. | | | | | | | |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. | | | | | | | |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. | | | | | | | |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. | | | | | | | |
| Site NSA | SGS | 10M Chamber | 10M SAC | Dec. 31th, 2019 | Dec. 30th, 2020 | | | | | | | |
| Test S/W | Farad | EZ-EMC | Ver. SGS 10m- 03A2-3 | N.C.R. | N.C.R. | | | | | | | |

Testing Site: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Report No.: MH/2020/80042

Page: 15 of 24

Above 1GHz

| 7 1.00 7 0 | SGS Radiated | _Above_1GHz HW | ΔVΔ 966Δ EMC | | |
|---|-----------------------|---------------------|---------------------|------------------|-----------------|
| EQUIPMENT TYPE | Manufacturer | Above_TGTZTTW | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer | Agilent | E4446A | MY48250064 | Apr. 06th, 2020 | Apr. 05th, 2021 |
| EMI Test Receiver | R&S | ESR 7 | 101459 | Feb. 24th, 2020 | Feb. 23th, 2021 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA9120D28 5 | Apr. 29th, 2020 | Apr. 28th, 2021 |
| Horn Antenna | Schwarzbeck | BBHA9170 | BBHA9170-184 | Dec. 25th, 2019 | Dec. 24th, 2020 |
| Pre Amplifier | EMC Instruments Corp. | EMC012645B | 980216 | Apr. 25th, 2020 | Apr. 24th, 2021 |
| Pre Amplifier | EMC Instruments Corp. | EMC184045B | 980135 | Oct. 27th, 2019 | Oct. 26th, 2020 |
| Coaxial Cable | JUNFLOW | MWX221- NMSNMS | J0778929 | Apr. 23th, 2020 | Apr. 22th, 2021 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104PEA | 30255/4PEA | Apr. 23th, 2020 | Apr. 22th, 2021 |
| Coaxial Cable | EMC Instruments | EMC104-SM-SM | 140927 | Apr. 23th, 2020 | Apr. 22th, 2021 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | 520415/2 | Jun. 05th, 2020 | Jun. 04th, 2021 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | MY 2153/2 | Jun. 05th, 2020 | Jun. 04th, 2021 |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 114273 | May. 31th, 2020 | May. 30th, 2021 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | Feb. 24th, 2020 | Feb. 23th, 2021 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. |
| Controller | MF | MF7802 | N.C.R. | N.C.R. | N.C.R. |
| Antenna Master | MF | N/A | N/A | N.C.R. | N.C.R. |
| Turn Table | MF | N/A | N/A | N.C.R. | N.C.R. |
| Site VSWR | SGS | 966 Chamber A | SAC-A | Jan. 12th, 2020 | Jan. 11th, 2021 |
| Test S/W | Farad | EZ-EMC | Ver. SGS- 03A2-3 | N.C.R. | N.C.R. |

Testing Site: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan

Measurement Uncertainty of Radiated Emission

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.07 dB. (6-18GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.19 dB. (18-26GHz)

Expanded uncertainty Ulab (k=2) of radiated emission measurement is 5.14 dB. (26-40GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.18 dB.(1-6GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is 5.48 dB.(6-18GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is --- dB.(18-26GHz)

Theory values uncertainty Ucispr 16-4-2:2011+A1:2014 (K=2) of radiated emission measurement is ---- dB.(26-40GHz)

2.5.2 Measurement Level Calculation

Correction Factor = Antenna Factor + Cable loss- Amplifier Gain Measurement Level = Reading Level + Correction Factor Over (Margin) = Measurement Level - Limit

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Report No.: MH/2020/80042

Page: 16 of 24

2.5.3 Measurement Data

Below 1GHz

Model No.:F-52A Mode_1_H



| NI- | Mk | Freq. | Reading | Factor | | Limit | Over | Height | Degree | Detector | Comment |
|-----|--------|----------|---------|--------|----------|----------|--------|--------|--------|----------|---------|
| No. | O. MIK | MHz | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| 1 | | 39.7000 | 29.53 | -11.40 | 18.13 | 30.00 | -11.87 | | | peak | |
| 2 | | 296.7500 | 36.72 | -10.76 | 25.96 | 37.00 | -11.04 | | | peak | |
| 3 | | 790.4800 | 28.92 | 0.05 | 28.97 | 37.00 | -8.03 | | | peak | |
| 4 | | 906.8800 | 29.20 | 0.71 | 29.91 | 37.00 | -7.09 | | | peak | |
| 5 | * | 964.1100 | 28.45 | 1.52 | 29.97 | 37.00 | -7.03 | 136 | 0 | peak | |
| 6 | | 981.5700 | 28.36 | 1.53 | 29.89 | 37.00 | -7.11 | | | peak | |

*:Maximum data x:Over limit !:over margin

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Page: 17 of 24

Mode_1_V



| N1- | NALE | Freq. | Reading | Factor (dB/m) | Measurement | Limit | Over | Height | Degree | Detector | Comment |
|-----|------|----------|---------|------------------|-------------|----------|-------|--------|--------|----------|---------|
| No. | Mk | MHz | (dBuV) | | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| 1 | | 39.7000 | 34.17 | -11.28 | 22.89 | 30.00 | -7.11 | | | peak | |
| 2 | | 59.1000 | 34.07 | -11.68 | 22.39 | 30.00 | -7.61 | | | peak | |
| 3 | | 744.8900 | 28.32 | 1.06 | 29.38 | 37.00 | -7.62 | | | peak | |
| 4 | * | 935.0100 | 27.85 | 2.41 | 30.26 | 37.00 | -6.74 | 220 | 259 | peak | |
| 5 | | 969.9300 | 27.78 | 2.42 | 30.20 | 37.00 | -6.80 | | | peak | |
| 6 | | 986.4200 | 27.77 | 2.46 | 30.23 | 37.00 | -6.77 | | | peak | |

*:Maximum data x:Over limit !:over margin

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Page: 18 of 24

Above 1GHz

Model No.:F-52A Mode 8 H



| N1= | MK | Freq. | Reading | Factor | Measurement | Limit | Over | Height | Degree | Detector | Comment |
|-----|-------|----------|---------|-----------|-------------|----------|--------|--------|--------|----------|---------|
| No. | (MHz) | (MHz) | (dBuV) | /) (dB/m) | 34 | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| 1 | | 4383.000 | 49.22 | -8.19 | 41.03 | 74.00 | -32.97 | | 11 | peak | |
| 2 | | 4723.000 | 49.34 | -7.39 | 41.95 | 74.00 | -32.05 | | | peak | |
| 3 | | 4893.000 | 49.60 | -7.43 | 42.17 | 74.00 | -31,83 | | | peak | |
| 4 | | 5386.000 | 48.66 | -6.68 | 41.98 | 74.00 | -32.02 | 1 = 1 | | peak | 1: - |
| 5 | | 5539.000 | 48.96 | -6.32 | 42.64 | 74.00 | -31.36 | | | peak | |
| 6 | * | 5794.000 | 49.68 | -5.41 | 44.27 | 74.00 | -29.73 | 100 | 189 | peak | |

Page: 1

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^{*:} Maximum data x:Over limit l:over margin



Report No.: MH/2020/80042

Page: 19 of 24



| NI- | | Freq. (MHz) | Reading | Factor | Measurement | Limit | Over | Height | Degree | Detector | Comment |
|-----|------|----------------|---------|--------|-------------|----------|--------|--------|--------|----------|---------|
| No. | Mk - | | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| - 1 | | 18312.000 | 50.37 | -3.43 | 46.94 | 83.50 | -36.56 | | | peak | |
| 2 | | 22032.000 | 47.94 | 0.37 | 48.31 | 83.50 | -35.19 | | | peak | |
| 3 | | 22668.000 | 48.10 | -0.03 | 48.07 | 83.50 | -35.43 | | | peak | |
| 4 | | 23220.000 | 48.05 | 0.44 | 48.49 | 83,50 | -35.01 | | | peak | |
| 5 | E | 24648.000 | 47.83 | 1.63 | 49.46 | 83.50 | -34.04 | | | peak | |
| 6 | * | 25164.000 | 48.13 | 1.89 | 50.02 | 83.50 | -33.48 | 100 | 138 | peak | |

Page: 1

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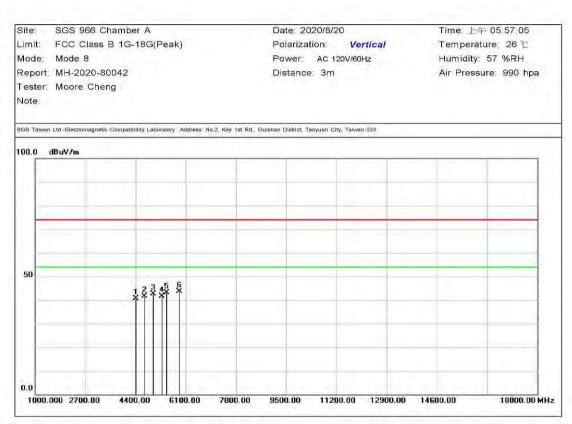
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^{*:} Maximum data !:over margin x:Over limit



Page: 20 of 24

Mode_8_V



| NI- | o. Mk | Freq. (MHz) | Reading | Factor | Measurement | Limit | Over | Height | Degree | Detector | Comment |
|-----|-------|----------------|---------|--------|-------------|----------|--------|----------|---------|----------|---------|
| No. | | | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| 1 | | 4400.000 | 48.70 | -8.10 | 40.60 | 74.00 | -33.40 | 70 - 91 | 11 | peak | 15 |
| 2 | - | 4706.000 | 49.01 | -7.42 | 41.59 | 74.00 | -32.41 | | | peak | |
| 3 | | 4995.000 | 49.94 | -7.30 | 42.64 | 74.00 | -31.36 | 17 - 11 | | peak | |
| 4 | | 5284.000 | 48.67 | -6.92 | 41.75 | 74.00 | -32.25 | 11 == 1. | .: ==1. | peak | 11. |
| 5 | | 5454.000 | 49.55 | -6.44 | 43.11 | 74.00 | -30.89 | | | peak | |
| 6 | * | 5879.000 | 48.86 | -5.11 | 43.75 | 74.00 | -30.25 | 100 | 325 | peak | |

Page: 1

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Report No.: MH/2020/80042

Page: 21 of 24



| NI- | MAL | Freq. | Reading | Factor | Measurement | Limit | Over | Height | Degree | Detector | Comment |
|-----|-----|-----------|---------|--------|-------------|----------|--------|--------|--------|----------|---------|
| No. | Mk | (MHz) | (dBuV) | (dB/m) | (dBuV/m) | (dBuV/m) | (dB) | (cm) | (deg.) | Detector | Comment |
| 1 | | 22020.000 | 47.65 | 0.38 | 48.03 | 83.50 | -35.47 | | | peak | |
| 2 | | 22800.000 | 47.65 | 0.02 | 47.67 | 83.50 | -35.83 | | | peak | |
| 3 | | 23136.000 | 47.13 | 0.31 | 47.44 | 83.50 | -36.06 | | | peak | |
| 4 | | 24576,000 | 47.29 | 1.62 | 48,91 | 83,50 | -34.59 | | | peak | |
| 5 | * | 25200.000 | 47.64 | 1.94 | 49.58 | 83.50 | -33.92 | 100 | 169 | peak | |
| 6 | | 25872.000 | 46.47 | 1.64 | 48.11 | 83.50 | -35.39 | | | peak | |

Page: 1

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