

FCC CERTIFICATION REPORT

Test Report No. : MH/2019/A0118
Applicant : Sharp Corporation, Mobile Communication B.U.
Address : 2-13-1, Hachihonmatsu-lida, Higashi-hiroshima-shi, Hiroshima,
739-0192, Japan
Manufacturer : Sharp Corporation
Address : 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-8522, Japan

Equipment Under Test (EUT) :
Product Name : Smart phone

Standards : FCC Part 15, Subpart B, Class B
FCC Designation Numbers : 916890 / TW1087

Date of Receipt : Oct. 24, 2019
Date of Test : Nov. 04 ~ 19, 2019
Date of Issue : Nov. 20, 2019

| | |
|----------------------|-------------|
| 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.

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

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Tested By:

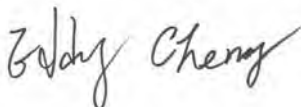


Date

Nov. 20, 2019

Jeffrey Chou (Engineer)

Approved By



Date

Nov. 20, 2019

Eddy Cheng (Asst. Supervisor)



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Revision History

| Revision | Description | Issue Date | Remark |
|----------|-------------|---------------|---------------|
| 00 | Original. | Nov. 20, 2019 | MH/2019/A0118 |

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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 OPERATION PROCEDURE | 6 |
| 1.5 DESCRIPTION OF SUPPORT UNITS | 7 |
| 1.6 MODIFICATION LIST | 7 |
| 1.7 ACCESSORIES CABLE LIST | 7 |
| 1.8 TEST SET-UP CONFIGURATION | 8 |
| 1.9 MEASUREMENT PROCEDURE | 9 |
| 1.10 STANDARDS APPLICABLE FOR TESTING | 9 |
| 1.11 SUMMARY OF RESULTS | 9 |
| 2. EMISSION | 10 |
| 2.1 TEST RESULTS | 10 |
| 2.2 FREQUENCY RANGE | 10 |
| 2.3 LIMITS OF CONDUCTED AND RADIATED EMISSION | 10 |
| 2.3.1 LIMITS OF CONDUCTED EMISSION | 10 |
| 2.3.2 LIMITS OF RADIATED EMISSIONS | 11 |
| 2.4. TEST OF CONDUCTED EMISSION | 12 |
| 2.4.1 TEST EQUIPMENTS | 12 |
| 2.4.2 OPERATING ENVIRONMENT | 12 |
| 2.4.3 MEASUREMENT LEVEL CALCULATION | 12 |
| 2.4.4 MEASUREMENT DATA: | 13 |
| 2.5 TEST OF RADIATED EMISSION | 19 |
| 2.5.1 TEST EQUIPMENTS | 19 |
| 2.5.2 OPERATING ENVIRONMENT | 20 |
| 2.5.3 MEASUREMENT LEVEL CALCULATION | 20 |
| 2.5.4 MEASUREMENT DATA: | 21 |
| 3. PHOTOGRAPHS OF TEST | 45 |

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1. General Information

1.1 Applicant & Manufacturer Information

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Manufacturer : Sharp Corporation
Address of Manufacturer : 1 Takumi-cho, Sakai-ku, Sakai City, Osaka 590-
8522, Japan

1.2 General Description of EUT

Product Name : Smart phone

1.3 Details of EUT

Power Supply : AC 100~240V, 50/60Hz
Highest operate description : 5850 MHz
Battery : 3.85V, 3130mAh, 12.05Wh
Worst case : CE worst case : Config 4
Below RE worst case : Config 2
Above RE worst case : Config 3

| FCC ID : APYHRO00279 | UFS memory | LPDDR4X SDRAM | PCB(MAIN) | PCB(ANT) | (Select which one is worst case) |
|-------------------------|------------|---------------|-----------|----------|----------------------------------|
| 1st Source | Vendor A | Vendor A | Vendor A | Vendor A | Worst case |
| 2nd Source | Vendor B | Vendor B | Vendor B | Vendor B | V |
| 3rd Source | Vendor B | Vendor C | Vendor B | Vendor B | V |

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| | | | | |
|---|---|-------------------|---|-----------------------------------|
| Accessories List: AC Charger : Salom/XN-2QC25 Data Cable : Luxshare-ICT/L6KU2007-CS-H Conversion Cable : Partron/RUITZA533AFZZ PHF : Sony / MDR-EX15AP | Config 1 | Config 2 | Config 3 | Config 4 |
| Applicable standard | FCC 15B | | | |
| Accessories | EUT + AC Adaptor +USB Cable | EUT +USB Cable | EUT +Conversion Cable +PHF | EUT + AC Adaptor +USB Cable |
| Main function | Speech | Data Link | Camera | RX Receive |
| Additional function | BT+WiFi+GPS+NFC | | | |
| Description | | | | |
| radiated emission | GSM 850, 1900 WCDMA BII, IV, V LTE B02, 04, 05, 12, 13, 17 | Data R/W | MP3/ ;REC mode (Front/Back) ;play REC | GSM 850 WCDMA BV LTE B05 |
| conducted emission (DC Power) | NA | NA | NA | NA |
| conducted emission (AC Power) | GSM 850, 1900 WCDMA BII, IV, V LTE B02, 04, 05, 12, 13, 17 | Data R/W | NA | GSM 850 WCDMA BV LTE B05 |

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1.4 Operation Procedure

Config 1

1. Let EUT install with SIM card, connect to the specified Adapter with USB cable and turn it on.
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Set up the base station and set the link/idle according to Config.
7. Start testing.

Config 2

1. Let EUT install with SIM card, connect to NB with USB cable and turn it on.
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. NB performs data read/write with EUT according to Config.
7. Start testing.

Config 3

1. Let EUT install with SIM card, connect to Conversion Cable to switch to Earphone and turn it on.
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Perform Camera (Front/Back) Record / Play REC / MP3 function according to Config.
7. Start testing.

Config 4

1. Let EUT install with SIM card, connect to the specified Adapter with USB cable and turn it on.
2. Turn on BT and Link BT Speaker.
3. Turn on Wifi, link to the WiFi-AP with same NB and NB ping EUT IP address.
4. Set up a GPS simulator and execute GPS Test.app.
5. Confirm the NFC function before and after the test.
6. Set up the base station and set the link according to Config.
7. Start testing.

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1.5 Description of Support Units

| PRODUCT | MANUFACTURER | MODEL NO. | SERIAL NO. |
|------------------------------|--------------|----------------|-----------------------|
| SIM Card | R&S | CMW-Z05 | 8952530076180138474 |
| 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 | DELL | P56F | 59WSJ72 |
| Mouse | Logitech | M-U0026 | 1738HS05FGU8 |
| Adapter | Salom | XN-2QC25 | N/A |
| Earphone | Sony | MDR-EX15AP | N/A |

Support Equipment Used in Tested Cable

| Cable Type | Core | Length | Shielding/Non-shielding |
|----------------------|------|--------|-------------------------|
| USB Cable | N/A | 1.8m | Shielding |
| USB Cable | N/A | 1.2m | Shielding |
| USB Conversion Cable | N/A | 0.13M | Non-shielding |
| Earphone | N/A | 1.2M | Non-shielding |

1.6 Modification List

No modification was made by SGS Taiwan Electronics & Communication Laboratory.

1.7 Accessories Cable List

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

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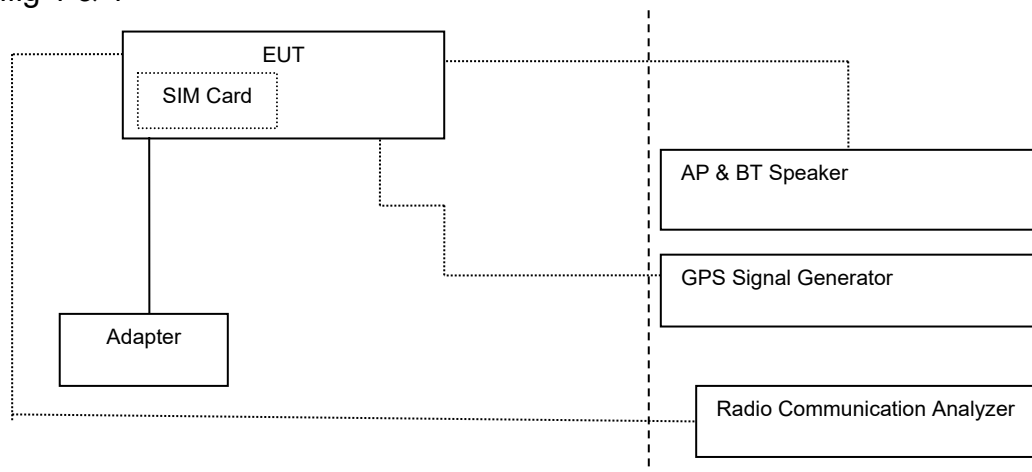
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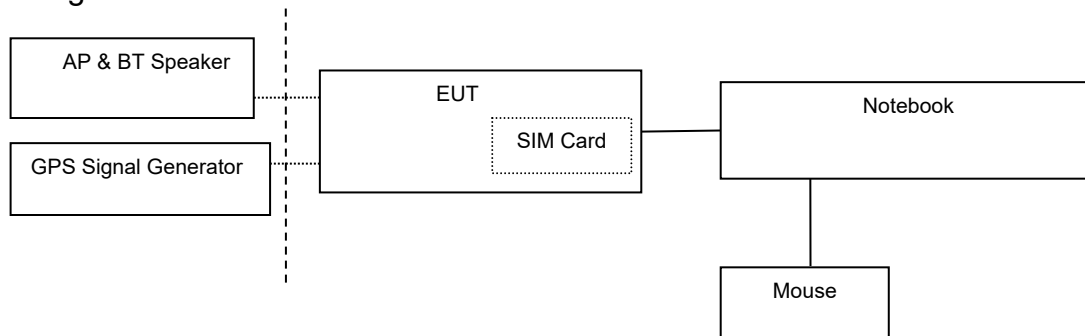
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1.8 Test Set-Up Configuration

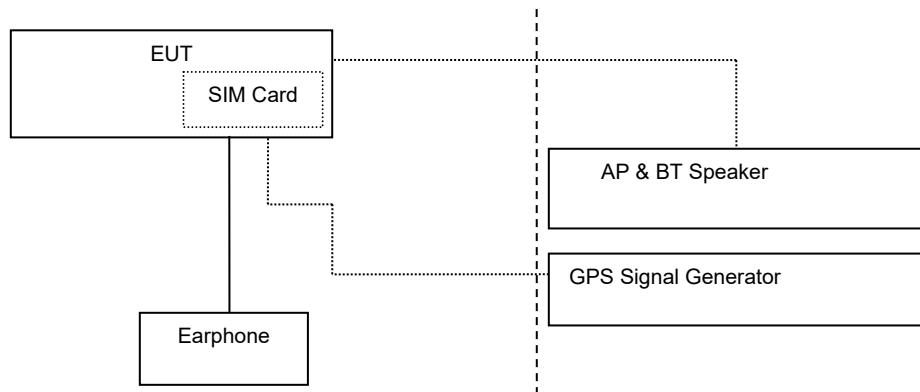
Config 1 & 4



Config 2



Config 3



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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/Pol. | Frequency(MHz) | Margin(dB) |
| FCC Part 15 Subpart B Class B | Conducted Emission | PASS | Line | 0.1860 | -14.08 (QP) |
| | | | Neutral | 0.1860 | -17.04 (QP) |
| | Radiated Emission | PASS | Hor. | 58.3700 | -3.10 (QP) |

1.13 Reporting Statements of Conformity

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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 (MHz) | Class A (dBuV) | | Class B (dBuV) | |
|--------------------|----------------|---------|----------------|---------|
| | 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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2.3.2 Limits of Radiated Emissions

FCC Part 15, Subpart B Limit:

- Detector Function : Quasi – Peak

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 3m) |
|--------------------|------------------|-----------------|
| | dBuV/m | dBuV/m |
| 30~88 | 39 | 40 |
| 88~216 | 43.5 | 43.5 |
| 216~960 | 46.44 | 46 |
| Above 960 | 49.54 | 54 |

- Detector Function : Peak , Average

| FREQUENCY (MHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
|--------------------|--------------------------|---------|--------------------------|---------|
| | Peak | Average | Peak | Average |
| Above 1000 | 79.3 | 59.3 | 73.9 | 53.9 |

CISPR 22 Limit:

- Detector Function : Quasi – Peak

| FREQUENCY (MHz) | Class A (at 10m) | Class B (at 10m) |
|--------------------|------------------|------------------|
| | 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 (GHz) | Class A (dBuV/m) (at 3m) | | Class B (dBuV/m) (at 3m) | |
|--------------------|--------------------------|------|--------------------------|------|
| | 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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2.4. Test of Conducted Emission

2.4.1 Test Equipments

| SGS Conducted Emission HWAYA Conducted Room No.A EMC | | | | | |
|--|----------------------|--------------------|---------------|------------------|-----------------|
| EQUIPMENT TYPE | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESCI 3 | 101311 | 2019/7/2 | 2020/7/1 |
| Coaxial Cables | EMC Instruments Corp | EMCRG58-BM-BM-3000 | 160812 | 2019/8/12 | 2020/8/11 |
| LISN | Schwarzbeck | NSLK 8127 | 8127-648 | 2019/7/12 | 2020/7/11 |
| Pulse Limiter | Narda S.T.S. | PMM PL01 | 1110X30602 | 2019/8/12 | 2020/8/11 |
| LISN | Schwarzbeck | NSLK 8128 | NSLK8128-300 | 2019/9/16 | 2020/9/15 |
| Communication Tester | R&S | CMU 200 | 119988 | 2019/2/22 | 2020/2/21 |
| Communication Tester | R&S | CMW 500 | 152303 | 2019/2/22 | 2020/2/21 |
| Communication Tester | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. |
| Test S/W | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

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 Measurement Uncertainty of Conducted Emission
 Expanded uncertainty U_{lab}(K=2) of conducted emission is 2.25 dB
 Theory values uncertainty U_{cispr 16-4-2 :2011+A1 2014} (K=2) of AC mains conducted Emission is 3.44dB

2.4.2 Operating Environment

Temperature : 19 degree C

Humidity : 68 %RH

Atmospheric Pressure : 1015 hpa

2.4.3 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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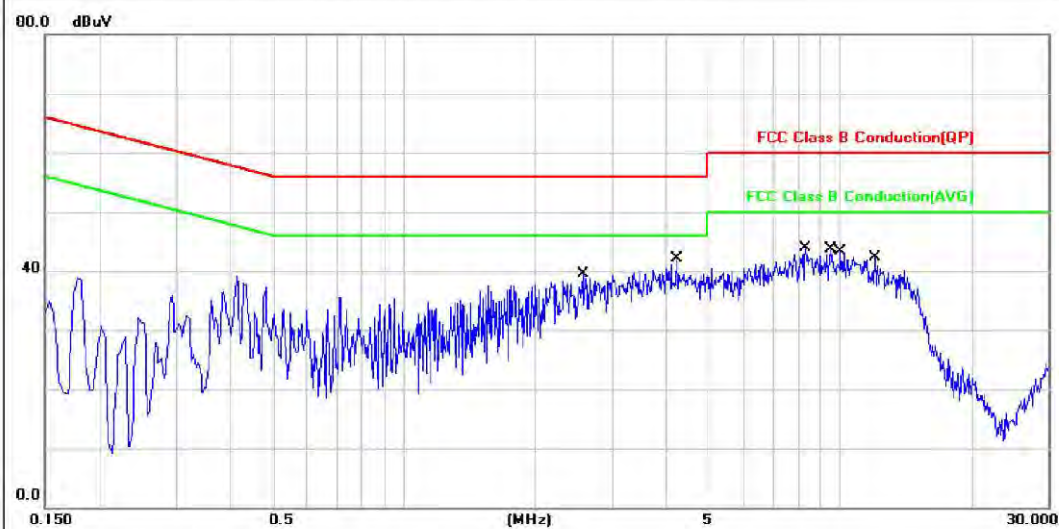


2.4.4 Measurement Data:

Config_1_L

| | | |
|-----------------------------------|--------------------|------------------------|
| Site: Conduction Room A | Date: 2019/11/6 | Time: 下午 07:19:53 |
| Limit: FCC Class B Conduction(QP) | Phase: L1 | Temperature: 19 °C |
| Mode: Config_1 | Power: AC120V/60Hz | Humidity: 73 % |
| Report: MH-2019-A0118 | | Air Pressure: 1013 hpa |
| Tester: | | |
| Note: LTE B2 | | |

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, K'oji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 2.5900 | 31.49 | 0.27 | 31.76 | 56.00 | -24.24 | QP | |
| 2 | | 2.5900 | 21.21 | 0.27 | 21.48 | 46.00 | -24.52 | AVG | |
| 3 | | 4.2260 | 31.10 | 0.32 | 31.42 | 56.00 | -24.58 | QP | |
| 4 | * | 4.2260 | 22.71 | 0.32 | 23.03 | 46.00 | -22.97 | AVG | |
| 5 | | 8.3660 | 33.98 | 0.46 | 34.44 | 60.00 | -25.56 | QP | |
| 6 | | 8.3660 | 24.14 | 0.46 | 24.60 | 50.00 | -25.40 | AVG | |
| 7 | | 9.5100 | 33.31 | 0.49 | 33.80 | 60.00 | -26.20 | QP | |
| 8 | | 9.5100 | 23.83 | 0.49 | 24.32 | 50.00 | -25.68 | AVG | |
| 9 | | 10.0500 | 33.81 | 0.51 | 34.32 | 60.00 | -25.68 | QP | |
| 10 | | 10.0500 | 24.10 | 0.51 | 24.61 | 50.00 | -25.39 | AVG | |
| 11 | | 12.0060 | 32.15 | 0.59 | 32.74 | 60.00 | -27.26 | QP | |
| 12 | | 12.0060 | 22.50 | 0.59 | 23.09 | 50.00 | -26.91 | AVG | |

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

Page: 1

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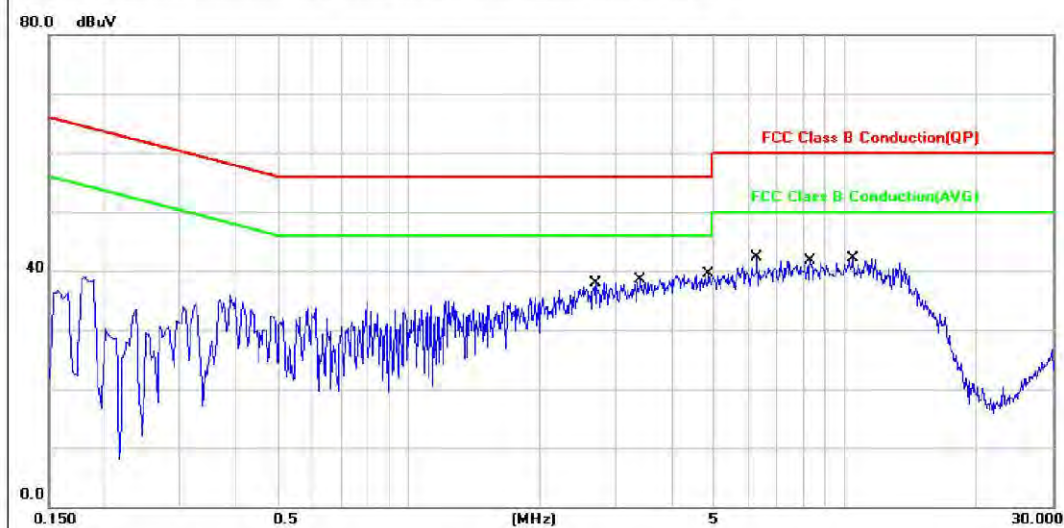
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Config_1_N

| | | |
|-----------------------------------|--------------------|------------------------|
| Site: : Conduction Room A | Date: 2019/11/6 | Time: 下午 07:21:53 |
| Limit: FCC Class B Conduction(QP) | Phase: N | Temperature: 19 °C |
| Mode: Config_1 | Power: AC120V/60Hz | Humidity: 73 % |
| Report: MH-2019-A0118 | | Air Pressure: 1013 hpa |
| Tester: | | |
| Note: LTE B2 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 2.6980 | 29.27 | 0.25 | 29.52 | 56.00 | -26.48 | QP | |
| 2 | | 2.6980 | 19.90 | 0.25 | 20.15 | 46.00 | -25.85 | AVG | |
| 3 | | 3.4020 | 29.52 | 0.26 | 29.78 | 56.00 | -26.22 | QP | |
| 4 | | 3.4020 | 20.68 | 0.26 | 20.94 | 46.00 | -25.06 | AVG | |
| 5 | | 4.8820 | 31.08 | 0.29 | 31.37 | 56.00 | -24.63 | QP | |
| 6 | * | 4.8820 | 21.88 | 0.29 | 22.17 | 46.00 | -23.83 | AVG | |
| 7 | | 6.3060 | 30.27 | 0.31 | 30.58 | 60.00 | -29.42 | QP | |
| 8 | | 6.3060 | 22.30 | 0.31 | 22.61 | 50.00 | -27.39 | AVG | |
| 9 | | 8.3340 | 32.14 | 0.35 | 32.49 | 60.00 | -27.51 | QP | |
| 10 | | 8.3340 | 23.22 | 0.35 | 23.57 | 50.00 | -26.43 | AVG | |
| 11 | | 10.4220 | 31.28 | 0.38 | 31.66 | 60.00 | -28.34 | QP | |
| 12 | | 10.4220 | 22.61 | 0.38 | 22.99 | 50.00 | -27.01 | AVG | |

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

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Config_2_L

Site: : Conduction Room A Date: 2019/11/7 Time: 上午 10:38:51
Limit: FCC Class B Conduction(QP) Phase: L1 Temperature: 19 °C
Mode: Config_2 Power: AC120V/60Hz Humidity: 68 %
Report: MH-2019-A0118 Air Pressure: 1015 hpa
Tester:
Note: Read

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1540 | 47.77 | 0.04 | 47.81 | 65.78 | -17.97 | QP | |
| 2 | | 0.1540 | 19.17 | 0.04 | 19.21 | 55.78 | -36.57 | AVG | |
| 3 | * | 0.1740 | 48.04 | 0.08 | 48.12 | 64.77 | -16.65 | QP | |
| 4 | | 0.1740 | 37.78 | 0.08 | 37.86 | 54.77 | -16.91 | AVG | |
| 5 | | 0.2020 | 38.79 | 0.13 | 38.92 | 63.53 | -24.61 | QP | |
| 6 | | 0.2020 | 14.39 | 0.13 | 14.52 | 53.53 | -39.01 | AVG | |
| 7 | | 0.2220 | 38.78 | 0.13 | 38.91 | 62.74 | -23.83 | QP | |
| 8 | | 0.2220 | 23.49 | 0.13 | 23.62 | 52.74 | -29.12 | AVG | |
| 9 | | 0.2460 | 37.26 | 0.13 | 37.39 | 61.89 | -24.50 | QP | |
| 10 | | 0.2460 | 14.84 | 0.13 | 14.97 | 51.89 | -36.92 | AVG | |
| 11 | | 0.2700 | 33.96 | 0.13 | 34.09 | 61.12 | -27.03 | QP | |
| 12 | | 0.2700 | 14.87 | 0.13 | 15.00 | 51.12 | -36.12 | AVG | |

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

Page: 1

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Config_2_N

| | | |
|-----------------------------------|--------------------|------------------------|
| Site: Conduction Room A | Date: 2019/11/7 | Time: 上午 10:41:04 |
| Limit: FCC Class B Conduction(QP) | Phase: N | Temperature: 19 °C |
| Mode: Config_2 | Power: AC120V/60Hz | Humidity: 68 % |
| Report: MH-2019-A0118 | | Air Pressure: 1015 hpa |
| Tester: | | |
| Note: Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBμV) | Factor (dB) | Measurement (dBμV) | Limit (dBμV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | | 0.1540 | 44.96 | 0.03 | 44.99 | 65.78 | -20.79 | QP | |
| 2 | | 0.1540 | 17.34 | 0.03 | 17.37 | 55.78 | -38.41 | AVG | |
| 3 | | 0.1740 | 47.44 | 0.07 | 47.51 | 64.77 | -17.26 | QP | |
| 4 | * | 0.1740 | 37.50 | 0.07 | 37.57 | 54.77 | -17.20 | AVG | |
| 5 | | 0.2020 | 41.25 | 0.11 | 41.36 | 63.53 | -22.17 | QP | |
| 6 | | 0.2020 | 15.76 | 0.11 | 15.87 | 53.53 | -37.66 | AVG | |
| 7 | | 0.2220 | 39.32 | 0.11 | 39.43 | 62.74 | -23.31 | QP | |
| 8 | | 0.2220 | 23.67 | 0.11 | 23.78 | 52.74 | -28.96 | AVG | |
| 9 | | 0.2460 | 36.64 | 0.11 | 36.75 | 61.89 | -25.14 | QP | |
| 10 | | 0.2460 | 14.87 | 0.11 | 14.98 | 51.89 | -36.91 | AVG | |
| 11 | | 0.5060 | 37.61 | 0.11 | 37.72 | 56.00 | -18.28 | QP | |
| 12 | | 0.5060 | 27.42 | 0.11 | 27.53 | 46.00 | -18.47 | AVG | |

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

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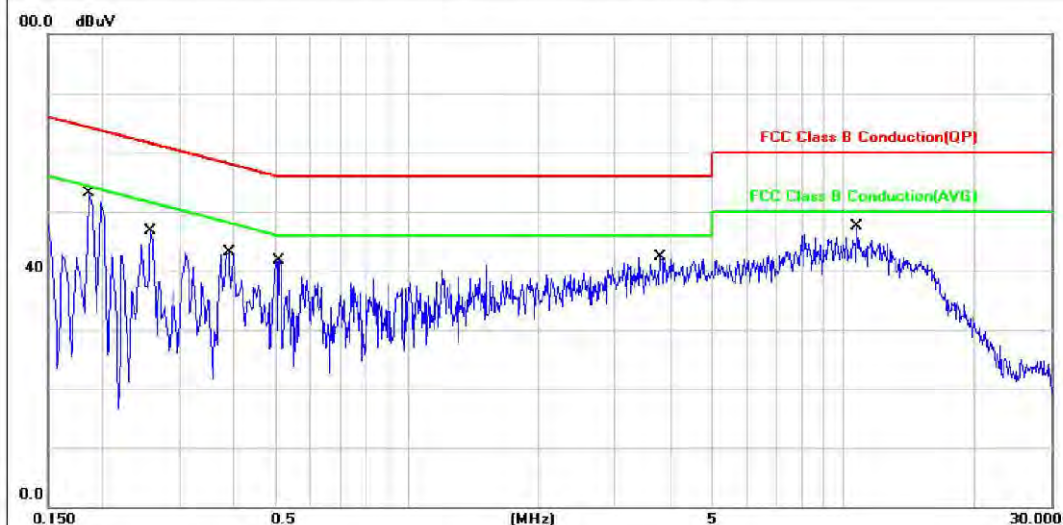
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Config_4_L

| | | |
|-----------------------------------|--------------------|------------------------|
| Site: Conduction Room A | Date: 2019/11/19 | Time: 下午 05:49:28 |
| Limit: FCC Class B Conduction(QP) | Phase: L1 | Temperature: 21 °C |
| Mode: Config_4 | Power: AC120V/60Hz | Humidity: 62 % |
| Report: File :MH-2019-A0118 | | Air Pressure: 1021 hpa |
| Tester: | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | * | 0.1860 | 50.03 | 0.10 | 50.13 | 64.21 | -14.08 | QP | |
| 2 | | 0.1860 | 34.64 | 0.10 | 34.74 | 54.21 | -19.47 | AVG | |
| 3 | | 0.2580 | 43.62 | 0.13 | 43.75 | 61.50 | -17.75 | QP | |
| 4 | | 0.2580 | 28.84 | 0.13 | 28.97 | 51.50 | -22.53 | AVG | |
| 5 | | 0.3900 | 38.25 | 0.13 | 38.38 | 58.06 | -19.68 | QP | |
| 6 | | 0.3900 | 27.46 | 0.13 | 27.59 | 48.06 | -20.47 | AVG | |
| 7 | | 0.5100 | 38.58 | 0.13 | 38.71 | 56.00 | -17.29 | QP | |
| 8 | | 0.5100 | 27.82 | 0.13 | 27.95 | 46.00 | -18.05 | AVG | |
| 9 | | 3.8140 | 35.80 | 0.31 | 36.11 | 56.00 | -19.89 | QP | |
| 10 | | 3.8140 | 25.99 | 0.31 | 26.30 | 46.00 | -19.70 | AVG | |
| 11 | | 10.7460 | 37.73 | 0.54 | 38.27 | 60.00 | -21.73 | QP | |
| 12 | | 10.7460 | 27.19 | 0.54 | 27.73 | 50.00 | -22.27 | AVG | |

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

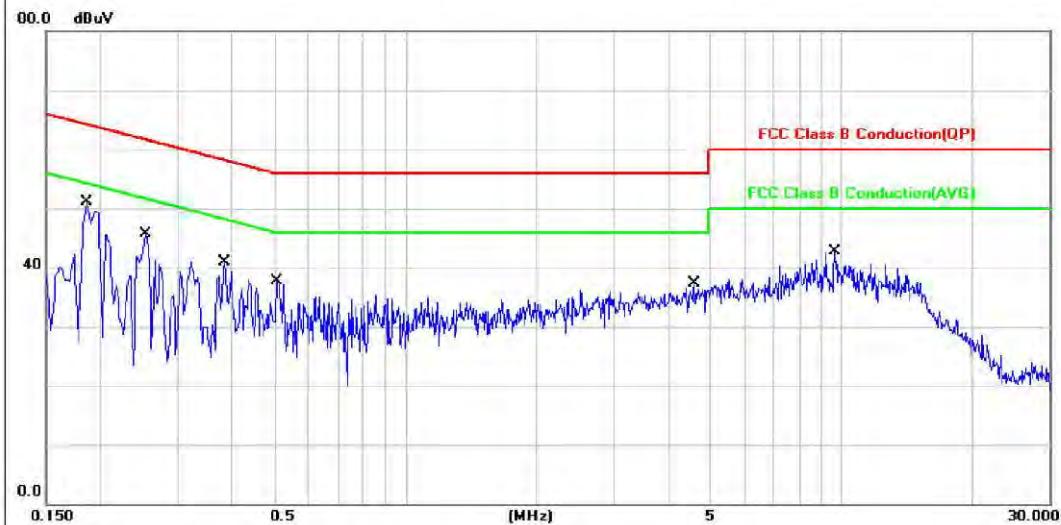
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Config_4_N

| | | |
|-----------------------------------|--------------------|------------------------|
| Site: Conduction Room A | Date: 2019/11/19 | Time: 下午 05:51:42 |
| Limit: FCC Class B Conduction(QP) | Phase: N | Temperature: 21 °C |
| Mode: Config_4 | Power: AC120V/60Hz | Humidity: 62 % |
| Report: File :MH-2019-A0118 | | Air Pressure: 1021 hpa |
| Tester: | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB) | Measurement (dBuV) | Limit (dBuV) | Over (dB) | Detector | Comment |
|-----|----|----------------|-------------------|----------------|-----------------------|-----------------|--------------|----------|---------|
| 1 | * | 0.1860 | 47.09 | 0.08 | 47.17 | 64.21 | -17.04 | QP | |
| 2 | | 0.1860 | 32.05 | 0.08 | 32.13 | 54.21 | -22.08 | AVG | |
| 3 | | 0.2540 | 41.27 | 0.11 | 41.38 | 61.63 | -20.25 | QP | |
| 4 | | 0.2540 | 26.96 | 0.11 | 27.07 | 51.63 | -24.56 | AVG | |
| 5 | | 0.3860 | 36.66 | 0.11 | 36.77 | 58.15 | -21.38 | QP | |
| 6 | | 0.3860 | 26.21 | 0.11 | 26.32 | 48.15 | -21.83 | AVG | |
| 7 | | 0.5100 | 33.64 | 0.11 | 33.75 | 56.00 | -22.25 | QP | |
| 8 | | 0.5100 | 24.42 | 0.11 | 24.53 | 46.00 | -21.47 | AVG | |
| 9 | | 4.5980 | 30.28 | 0.28 | 30.56 | 56.00 | -25.44 | QP | |
| 10 | | 4.5980 | 21.64 | 0.28 | 21.92 | 46.00 | -24.08 | AVG | |
| 11 | | 9.6860 | 31.75 | 0.37 | 32.12 | 60.00 | -27.88 | QP | |
| 12 | | 9.6860 | 23.45 | 0.37 | 23.82 | 50.00 | -26.18 | AVG | |

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

Page: 1

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2.5 Test of Radiated Emission

2.5.1 Test Equipments

Below 1GHz

| SGS Radiated_Below_1GHz HWAYA 10m EMC | | | | | |
|--|-----------------------|-----------------|---------------|------------------|-----------------|
| EQUIPMENT TYPE | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due |
| EMI Test Receiver | R&S | ESCI 7 | 100924 | 2019/2/1 | 2020/1/31 |
| EMI Test Receiver | R&S | ESCI 3 | 101343 | 2019/2/1 | 2020/1/31 |
| Broadband Antenna | SCHWAZBECK | VULB9168 | 9168-628 | 2019/9/9 | 2020/9/8 |
| Broadband Antenna | SCHWAZBECK | VULB9168 | 9168-629 | 2019/9/9 | 2020/9/8 |
| Pre Amplifier | EMC Instruments Corp. | EMC330 | 980178 | 2019/3/31 | 2020/3/30 |
| Pre Amplifier | EMC Instruments Corp. | EMC330 | 980179 | 2019/3/31 | 2020/3/30 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150917 | 2019/9/18 | 2020/9/17 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150919 | 2019/9/18 | 2020/9/17 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150820 | 2019/9/18 | 2020/9/17 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150918 | 2019/9/18 | 2020/9/17 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150821 | 2019/9/18 | 2020/9/17 |
| Coaxial Cable | EMC Instruments | EMCCFD400-NM-NM | 150822 | 2019/9/18 | 2020/9/17 |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 119988 | 2019/2/22 | 2020/2/21 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | 2019/2/22 | 2020/2/21 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. |
| Controller | MF | MF-7802 | N/A | N.C.R. | N.C.R. |
| Controller | MF | MF-7802 | 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 | Chance Most | 10M Chamber | 10M SAC | 2018/12/31 | 2019/12/30 |
| Test S/W | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

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 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty U_{lab} (K=2) of radiated emission is 4.09 dB. (30MHz ~ 1000MHz)
 Theory values uncertainty U_{cispr} 16-4-2:2011+A1:2014 (K=2) of radiated emission is 5.22 dB. (30MHz ~ 1000MHz)

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Above 1GHz

| SGS Radiated Above 1GHz HWAYA 966A EMC | | | | | |
|--|-----------------------|------------------|---------------|------------------|-----------------|
| EQUIPMENT TYPE | Manufacturer | Model Number | Serial Number | Calibration Date | Calibration Due |
| Spectrum Analyzer | R&S | FSV 40 | 101419 | 2019/5/22 | 2020/5/21 |
| EMI Test Receiver | R&S | ESR 7 | 101459 | 2019/2/25 | 2020/2/24 |
| Horn Antenna | SCHWARZBECK | BBHA9120D | BBHA9120D673 | 2019/11/4 | 2020/11/3 |
| Horn Antenna | Schwarzbeck | BBHA9170 | BBHA9170-184 | 2018/12/27 | 2019/12/26 |
| Pre Amplifier | EMC Instruments Corp. | EMC012645B | 980216 | 2019/4/25 | 2020/4/24 |
| Pre Amplifier | EMC Instruments Corp. | EMC184045B | 980135 | 2019/10/27 | 2020/10/26 |
| Coaxial Cable | JUNFLOW | MWX221-NMSNMS | J0778929 | 2019/4/23 | 2020/4/22 |
| Coaxial Cable | Huber+Suhner | SUCCOFLEX 104PEA | 30255/4PEA | 2019/4/23 | 2020/4/22 |
| Coaxial Cable | EMC Instruments | EMC104-SM-SM | 140927 | 2019/4/23 | 2020/4/22 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | MY 2651/2 | 2019/6/5 | 2020/6/4 |
| Coaxial Cable | Huber+Suhner | SUCOFLEX 102 | MY 2153/2 | 2019/6/5 | 2020/6/4 |
| Universal Digital Radio Communication Tester | R&S | CMU 200 | 119988 | 2019/2/22 | 2020/2/21 |
| Wideband Radio Communication Tester | R&S | CMW 500 | 152303 | 2019/2/22 | 2020/2/21 |
| Radio Communication Analyzer | Anritsu | MT8820C | 6201465315 | N.C.R. | N.C.R. |
| Controller | MF | MF-7802 | 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 | 2019/1/12 | 2020/1/11 |
| Test S/W | Farad | EZ-EMC | Ver. SGS-03A2 | N.C.R. | N.C.R. |

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 Measurement Uncertainty of Radiated Emission
 Expanded uncertainty (k=2) of radiated emission measurement is 5.05 dB. (1-6GHz)
 Expanded uncertainty (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 Operating Environment

Temperature : 21 degree C

Humidity : 67 %RH

Atmospheric Pressure : 1014 hpa

2.5.3 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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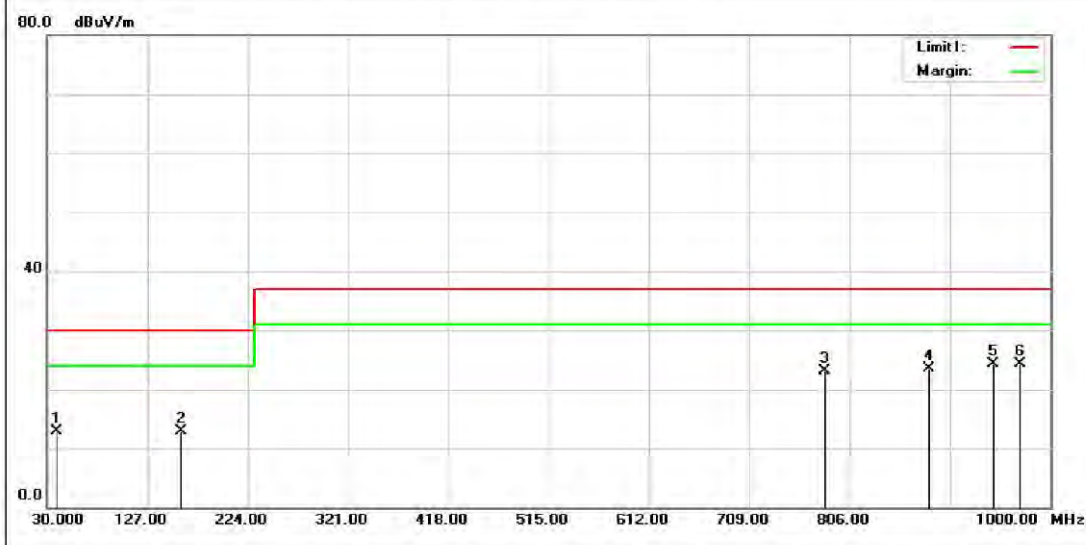
2.5.4 Measurement Data

Below 1GHz

Config_1_H

| | | |
|--------------------------------------|---------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/4 | Time: 下午 10:47:21 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: WCDMA BIV | | |

SGS Taiwan Ltd., Electronics & Communication Laboratory, Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 39.7000 | 24.34 | -11.40 | 12.94 | 30.00 | -17.06 | | | QP | |
| 2 | | 159.9800 | 23.74 | -10.80 | 12.94 | 30.00 | -17.06 | | | QP | |
| 3 | | 781.7500 | 22.92 | 0.28 | 23.20 | 37.00 | -13.80 | | | QP | |
| 4 | | 882.6300 | 23.09 | 0.45 | 23.54 | 37.00 | -13.46 | | | QP | |
| 5 | | 944.7100 | 22.82 | 1.47 | 24.29 | 37.00 | -12.71 | | | QP | |
| 6 | * | 970.9000 | 22.81 | 1.58 | 24.39 | 37.00 | -12.61 | 199 | 264 | QP | |

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

Page: 1

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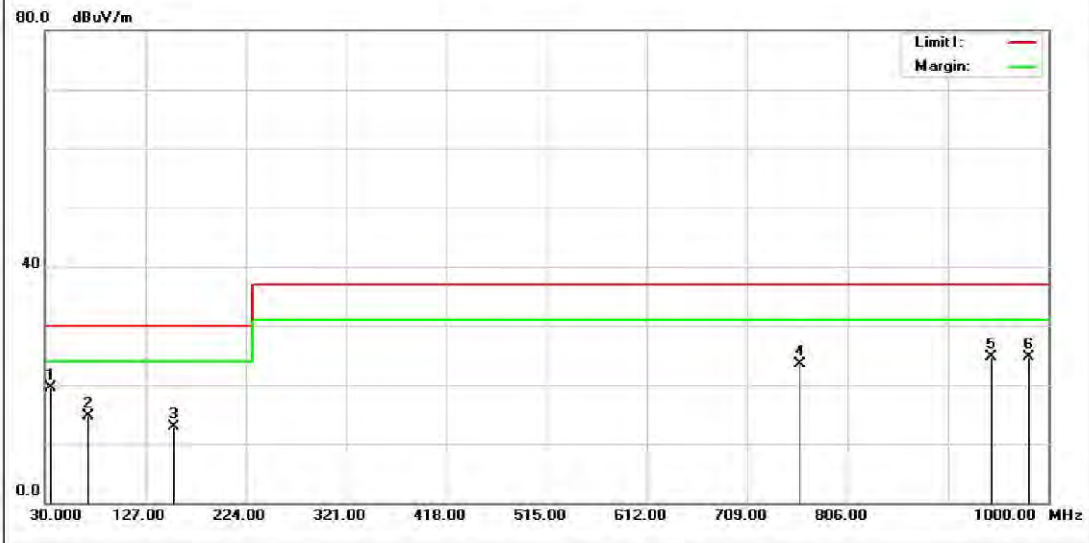
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Config_1_V

| | | |
|--------------------------------------|-------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/4 | Time: 下午 10:47:20 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: WCDMA BIV | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | * | 35.8200 | 31.32 | -11.78 | 19.54 | 30.00 | -10.46 | 300 | 360 | QP | |
| 2 | | 71.7100 | 27.85 | -13.09 | 14.76 | 30.00 | -15.24 | | | QP | |
| 3 | | 154.1600 | 23.62 | -10.77 | 12.85 | 30.00 | -17.15 | | | QP | |
| 4 | | 759.4400 | 22.15 | 1.28 | 23.43 | 37.00 | -13.57 | | | QP | |
| 5 | | 944.7100 | 22.29 | 2.48 | 24.77 | 37.00 | -12.23 | | | QP | |
| 6 | | 980.6000 | 21.97 | 2.69 | 24.66 | 37.00 | -12.34 | | | QP | |

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

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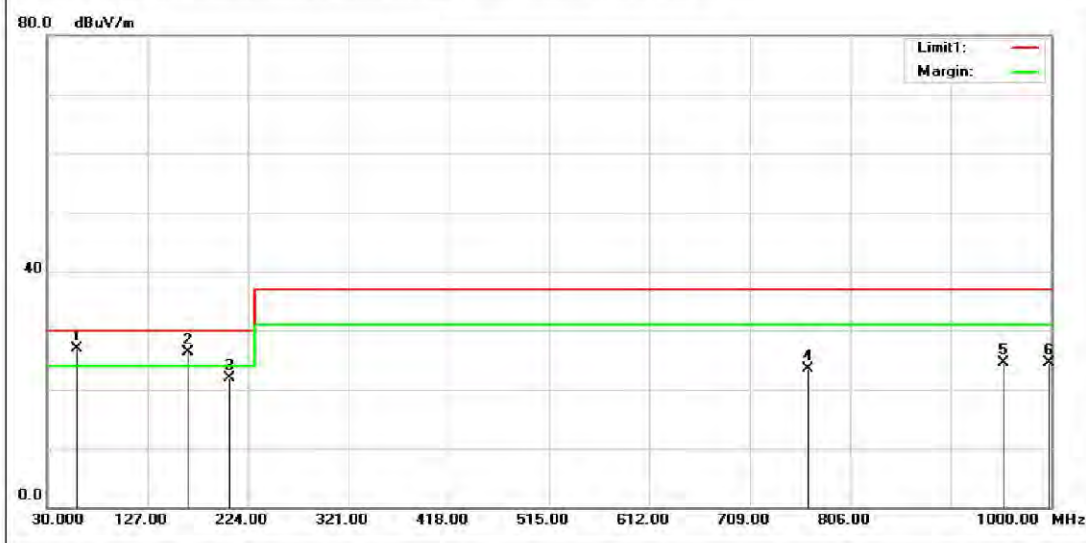
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Config_2_H

| | | |
|--------------------------------------|---------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/5 | Time: 上午 03:52:25 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 2 | Power: From System | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: Data Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | * | 58.3700 | 38.56 | -11.66 | 26.90 | 30.00 | -3.10 | 399 | 358 | QP | |
| 2 | ! | 165.2100 | 37.61 | -11.30 | 26.31 | 30.00 | -3.69 | | | QP | |
| 3 | | 205.8100 | 36.71 | -14.72 | 21.99 | 30.00 | -8.01 | | | QP | |
| 4 | | 765.2600 | 23.18 | 0.32 | 23.50 | 37.00 | -13.50 | | | QP | |
| 5 | | 954.4100 | 22.92 | 1.50 | 24.42 | 37.00 | -12.58 | | | QP | |
| 6 | | 998.0600 | 22.84 | 1.66 | 24.50 | 37.00 | -12.50 | | | QP | |

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

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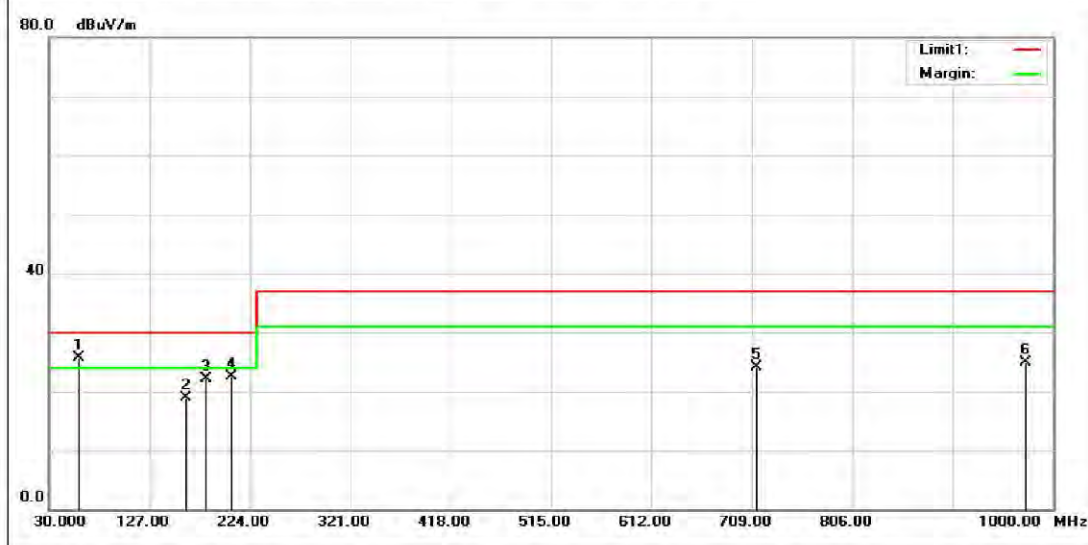
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Config_2_V

| | | |
|--------------------------------------|-------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/5 | Time: 上午 03:52:24 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 2 | Power: From System | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: Data Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | * | 58.3500 | 37.31 | -11.51 | 25.80 | 30.00 | -4.20 | 100 | 301 | QP | |
| 2 | | 162.8000 | 29.52 | -10.57 | 18.95 | 30.00 | -11.05 | | | QP | |
| 3 | | 181.2300 | 34.72 | -12.63 | 22.09 | 30.00 | -7.91 | | | QP | |
| 4 | | 205.8500 | 36.53 | -14.00 | 22.53 | 30.00 | -7.47 | | | QP | |
| 5 | | 713.8500 | 24.19 | -0.11 | 24.08 | 37.00 | -12.92 | | | QP | |
| 6 | | 972.8400 | 22.22 | 2.61 | 24.83 | 37.00 | -12.17 | | | QP | |

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

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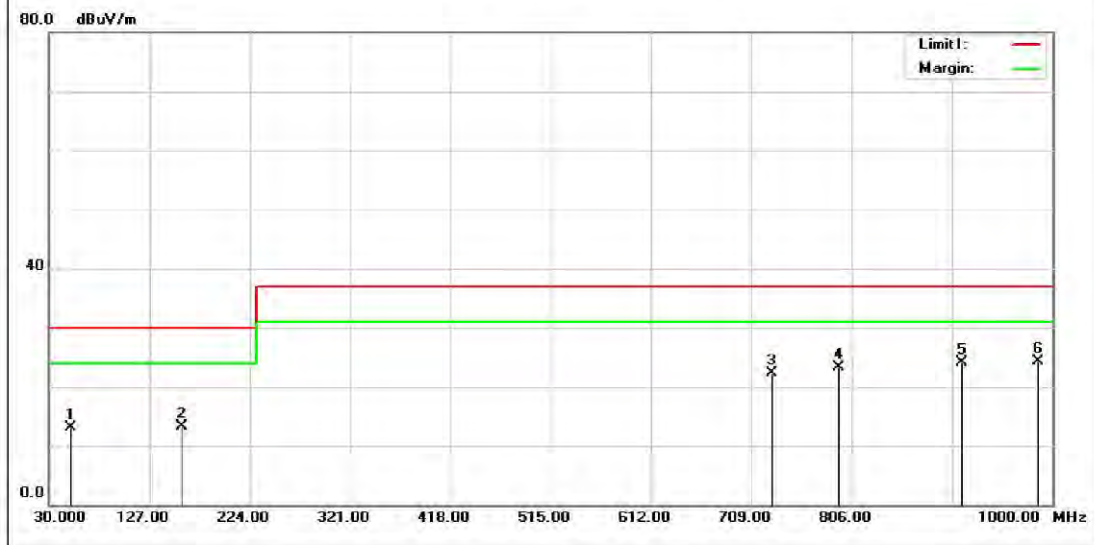
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Config_3_H

| | | |
|--------------------------------------|---------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/5 | Time: 上午 12:17:22 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: MP3 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 51.3400 | 24.14 | -11.12 | 13.02 | 30.00 | -16.98 | | | QP | |
| 2 | | 159.0100 | 24.03 | -10.75 | 13.28 | 30.00 | -16.72 | | | QP | |
| 3 | | 729.3700 | 22.87 | -0.49 | 22.38 | 37.00 | -14.62 | | | QP | |
| 4 | | 793.3900 | 23.09 | 0.14 | 23.23 | 37.00 | -13.77 | | | QP | |
| 5 | | 912.7000 | 23.14 | 0.97 | 24.11 | 37.00 | -12.89 | | | QP | |
| 6 | * | 986.4200 | 22.77 | 1.63 | 24.40 | 37.00 | -12.60 | 300 | 129 | QP | |

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

Page: 1

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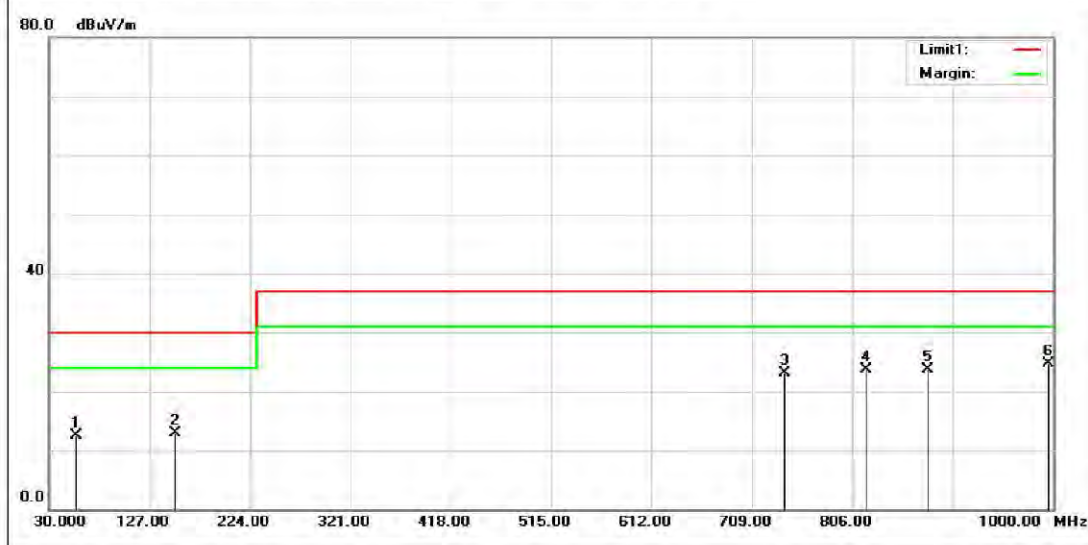
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Config_3_V

| | | |
|--------------------------------------|-------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/5 | Time: 上午 12:17:21 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 67 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1014 hpa |
| Tester: | | |
| Note: MP3 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 56.1900 | 23.66 | -11.16 | 12.50 | 30.00 | -17.50 | | | QP | |
| 2 | | 152.2200 | 23.72 | -10.91 | 12.81 | 30.00 | -17.19 | | | QP | |
| 3 | | 740.0400 | 22.16 | 1.02 | 23.18 | 37.00 | -13.82 | | | QP | |
| 4 | | 819.5800 | 22.12 | 1.58 | 23.70 | 37.00 | -13.30 | | | QP | |
| 5 | | 878.7500 | 22.14 | 1.54 | 23.68 | 37.00 | -13.32 | | | QP | |
| 6 | * | 995.1500 | 22.04 | 2.60 | 24.64 | 37.00 | -12.36 | 200 | 133 | QP | |

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

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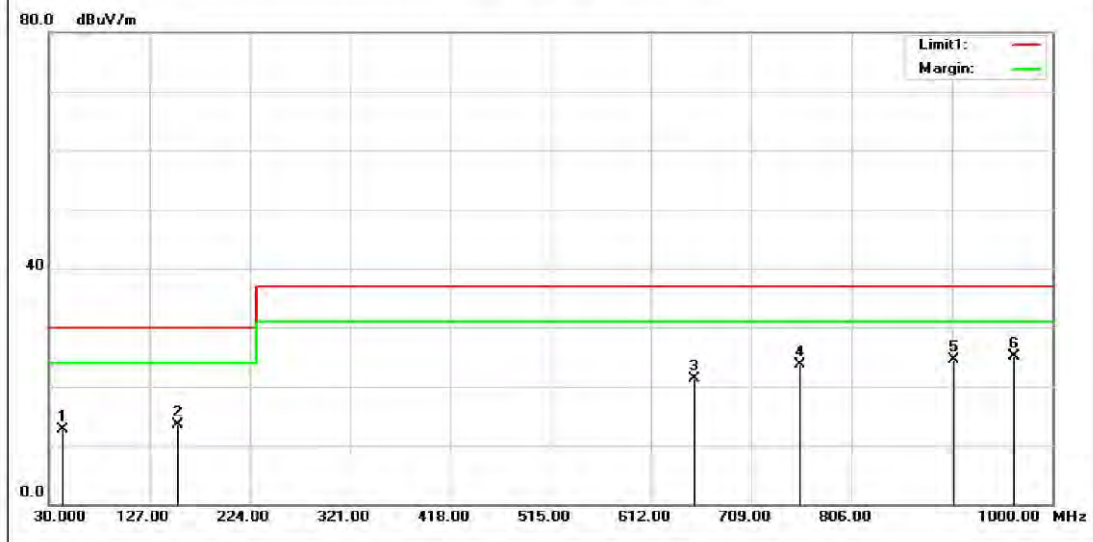
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Config_4_H

| | | |
|--------------------------------------|---------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/19 | Time: 下午 10:28:20 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Horizontal | Temperature: 20 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 65 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1012 hpa |
| Tester: | | |
| Note: LTE B05 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 43.5800 | 23.89 | -11.17 | 12.72 | 30.00 | -17.28 | | | QP | |
| 2 | | 155.1300 | 24.44 | -10.95 | 13.49 | 30.00 | -16.51 | | | QP | |
| 3 | | 653.7100 | 23.63 | -2.31 | 21.32 | 37.00 | -15.68 | | | QP | |
| 4 | | 756.5300 | 23.54 | 0.22 | 23.76 | 37.00 | -13.24 | | | QP | |
| 5 | | 904.9400 | 23.82 | 0.71 | 24.53 | 37.00 | -12.47 | | | QP | |
| 6 | * | 963.1400 | 23.61 | 1.54 | 25.15 | 37.00 | -11.85 | 301 | 216 | QP | |

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

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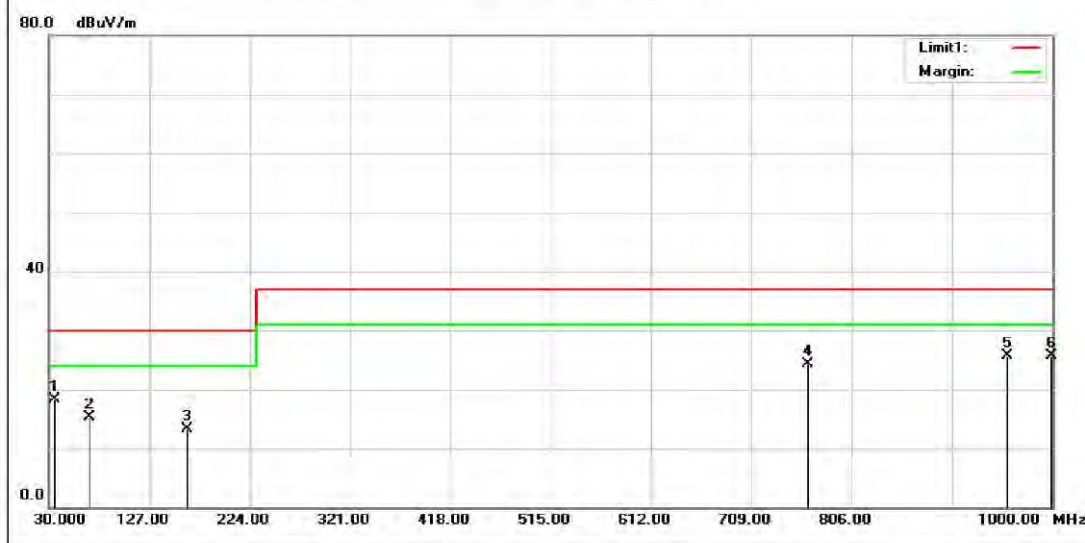
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Config_4_V

| | | |
|--------------------------------------|-------------------------------|------------------------|
| Site: SGS 10m Chamber | Date: 2019/11/19 | Time: 下午 10:28:18 |
| Limit: CISPR22 Class B 10m Radiation | Polarization: Vertical | Temperature: 20 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 65 % |
| Report: File :MH-2019-A0118 | Distance: 10m | Air Pressure: 1012 hpa |
| Tester: | | |
| Note: LTE B05 | | |

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 35.5391 | 30.12 | -11.79 | 18.33 | 30.00 | -11.67 | | | QP | |
| 2 | | 68.8000 | 28.15 | -12.75 | 15.40 | 30.00 | -14.60 | | | QP | |
| 3 | | 163.8600 | 23.93 | -10.56 | 13.37 | 30.00 | -16.63 | | | QP | |
| 4 | | 764.2900 | 23.01 | 1.37 | 24.38 | 37.00 | -12.62 | | | QP | |
| 5 | | 956.3500 | 23.06 | 2.57 | 25.63 | 37.00 | -11.37 | | | QP | |
| 6 | * | 999.0300 | 23.05 | 2.68 | 25.73 | 37.00 | -11.27 | 400 | 32 | QP | |

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

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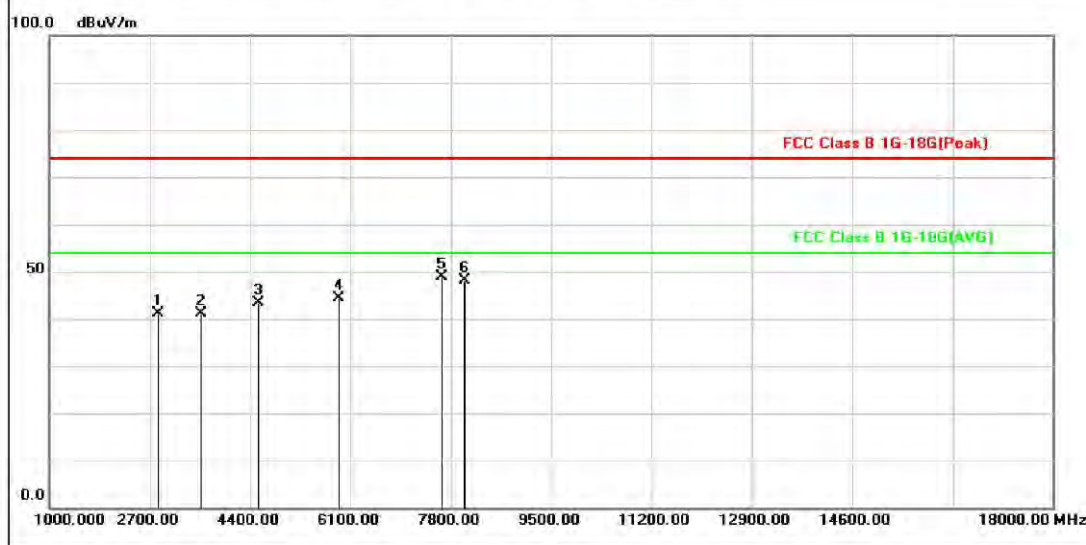
Above 1GHz

1GHz ~ 18GHz

Config_1_H

| | | |
|---------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 01:42:11 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Horizontal | Temperature: 23 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: WCDMA BIV | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 2853.000 | 51.82 | -10.60 | 41.22 | 74.00 | -32.78 | | | peak | |
| 2 | | 3567.000 | 51.12 | -9.90 | 41.22 | 74.00 | -32.78 | | | peak | |
| 3 | | 4536.000 | 51.45 | -8.05 | 43.40 | 74.00 | -30.60 | | | peak | |
| 4 | | 5913.000 | 48.68 | -4.41 | 44.27 | 74.00 | -29.73 | | | peak | |
| 5 | * | 7647.000 | 47.39 | 1.47 | 48.86 | 74.00 | -25.14 | 100 | 210 | peak | |
| 6 | | 8038.000 | 45.61 | 2.47 | 48.08 | 74.00 | -25.92 | | | peak | |

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

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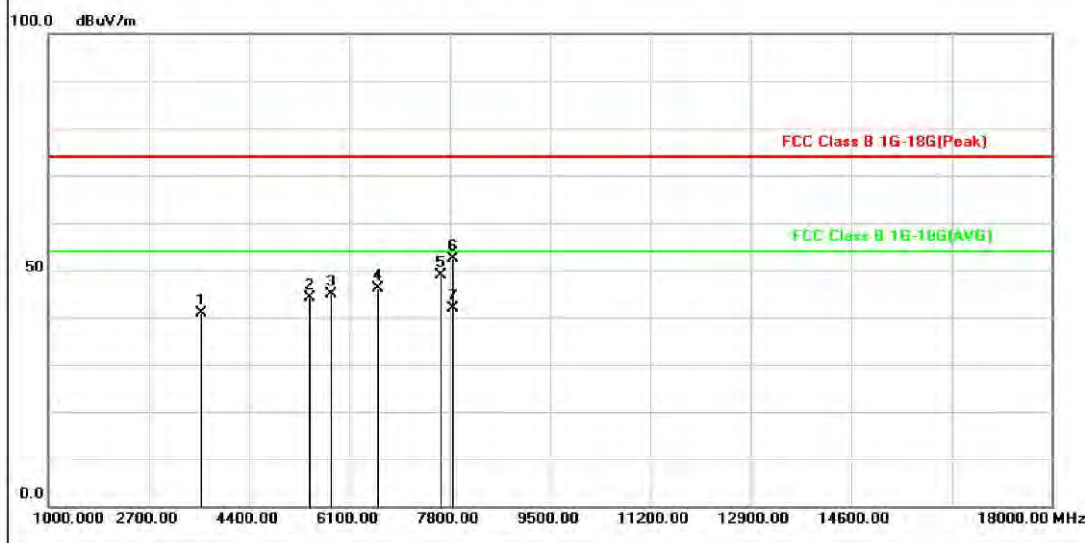
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Config_1_V

| | | |
|---------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 01:22:34 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Vertical | Temperature: 23 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: WCDMA BIV | | |

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 3584.000 | 50.58 | -9.76 | 40.82 | 74.00 | -33.18 | | | peak | |
| 2 | | 5437.000 | 50.44 | -6.36 | 44.08 | 74.00 | -29.92 | | | peak | |
| 3 | | 5794.000 | 50.00 | -5.01 | 44.99 | 74.00 | -29.01 | | | peak | |
| 4 | | 6593.000 | 48.12 | -2.03 | 46.09 | 74.00 | -27.91 | | | peak | |
| 5 | | 7647.000 | 47.49 | 1.47 | 48.96 | 74.00 | -25.04 | | | peak | |
| 6 | | 7851.000 | 50.77 | 1.65 | 52.42 | 74.00 | -21.58 | 100 | 36 | peak | |
| 7 | * | 7851.000 | 40.14 | 1.65 | 41.79 | 54.00 | -12.21 | 100 | 36 | AVG | |

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

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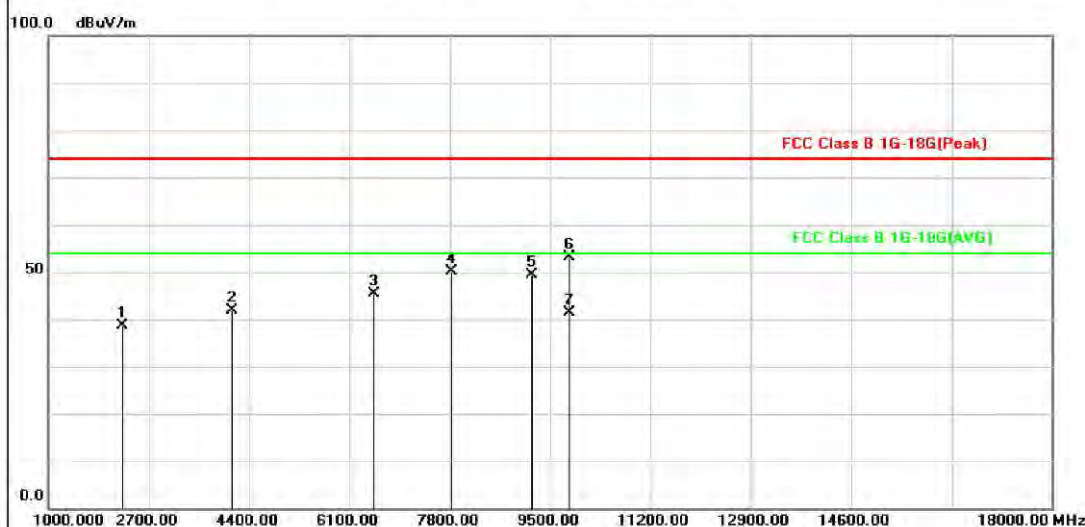
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Config_2_H

| | | |
|---------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 02:14:26 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Horizontal | Temperature: 23 °C |
| Mode: Config 2 | Power: From System | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: Data External Read | | |

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 2258.000 | 50.99 | -12.45 | 38.54 | 74.00 | -35.46 | | | peak | |
| 2 | | 4111.000 | 50.38 | -8.41 | 41.97 | 74.00 | -32.03 | | | peak | |
| 3 | | 6525.000 | 47.58 | -2.28 | 45.30 | 74.00 | -28.70 | | | peak | |
| 4 | | 7834.000 | 48.61 | 1.61 | 50.22 | 74.00 | -23.78 | | | peak | |
| 5 | | 9194.000 | 45.65 | 3.83 | 49.48 | 74.00 | -24.52 | | | peak | |
| 6 | | 9823.000 | 47.65 | 5.55 | 53.20 | 74.00 | -20.80 | 100 | 140 | peak | |
| 7 | * | 9823.000 | 35.93 | 5.55 | 41.48 | 54.00 | -12.52 | 100 | 140 | AVG | |

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

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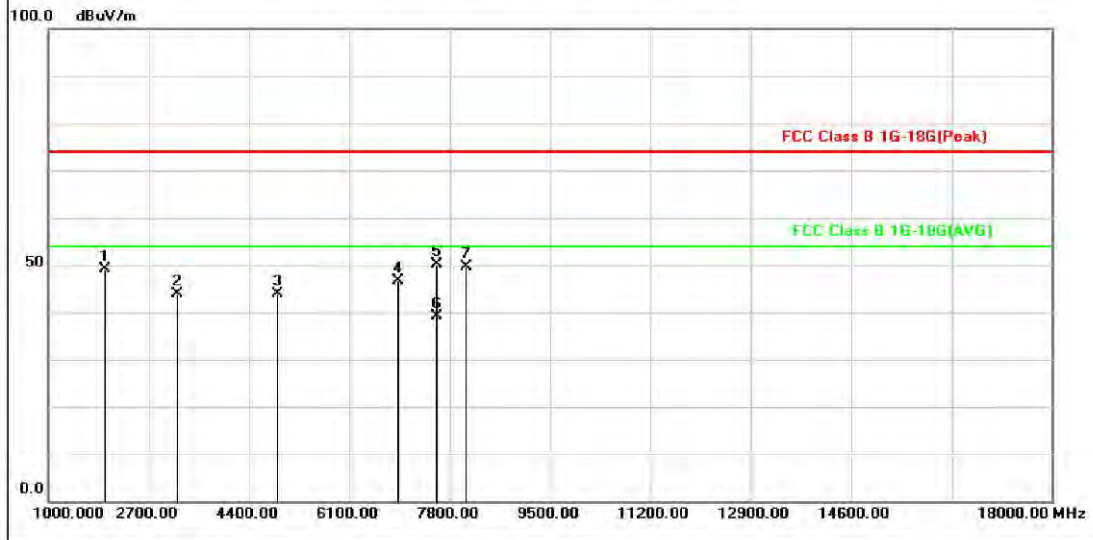
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Config_2_V

| | | |
|---------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 01:58:49 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Vertical | Temperature: 23 °C |
| Mode: Config 2 | Power: From System | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: Data External Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 1952.000 | 64.92 | -15.87 | 49.05 | 74.00 | -24.95 | | | peak | |
| 2 | | 3193.000 | 54.11 | -10.25 | 43.86 | 74.00 | -30.14 | | | peak | |
| 3 | | 4893.000 | 51.30 | -7.34 | 43.96 | 74.00 | -30.04 | | | peak | |
| 4 | | 6916.000 | 47.76 | -1.07 | 46.69 | 74.00 | -27.31 | | | peak | |
| 5 | | 7579.000 | 48.65 | 1.53 | 50.18 | 74.00 | -23.82 | 100 | 53 | peak | |
| 6 | * | 7579.000 | 37.67 | 1.53 | 39.20 | 54.00 | -14.80 | 100 | 53 | AVG | |
| 7 | | 8089.000 | 47.27 | 2.35 | 49.62 | 74.00 | -24.38 | | | peak | |

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

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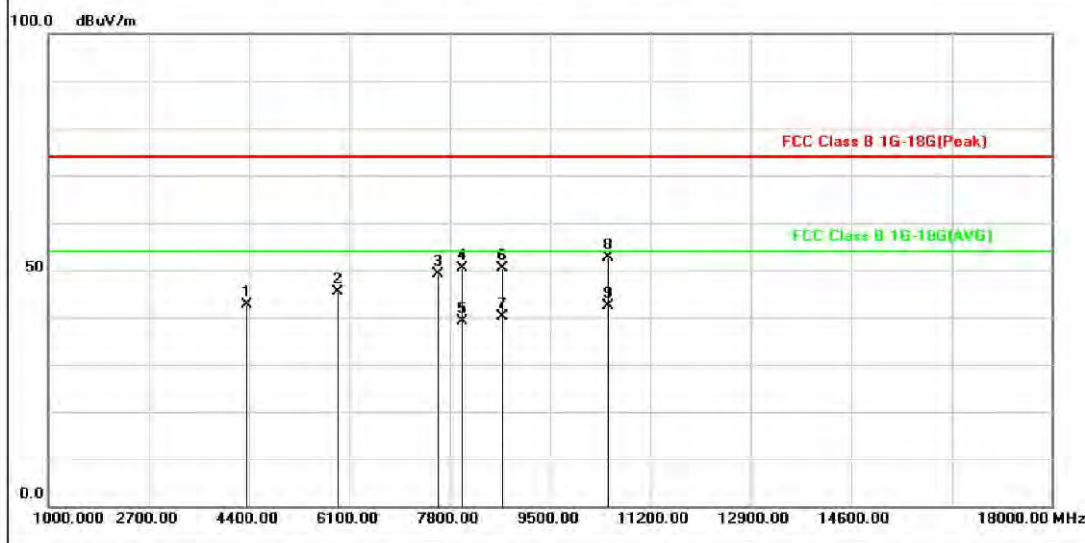
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Config_3_H

| | | |
|---------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 02:57:44 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Horizontal | Temperature: 23 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: MP3 | | |

SGS Taiwan Ltd.-Electronics & Communication Laboratory Address: No.2, Keji 1st Rd., Guishan District, Taoyuan City, Taiwan 333



| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 4366.000 | 50.74 | -8.11 | 42.63 | 74.00 | -31.37 | | | peak | |
| 2 | | 5896.000 | 49.93 | -4.47 | 45.46 | 74.00 | -28.54 | | | peak | |
| 3 | | 7613.000 | 47.58 | 1.51 | 49.09 | 74.00 | -24.91 | | | peak | |
| 4 | | 8004.000 | 47.95 | 2.50 | 50.45 | 74.00 | -23.55 | | | peak | |
| 5 | | 8004.000 | 36.70 | 2.50 | 39.20 | 54.00 | -14.80 | | | AVG | |
| 6 | | 8701.000 | 48.10 | 2.28 | 50.38 | 74.00 | -23.62 | | | peak | |
| 7 | | 8701.000 | 37.96 | 2.28 | 40.24 | 54.00 | -13.76 | | | AVG | |
| 8 | | 10486.000 | 46.13 | 6.50 | 52.63 | 74.00 | -21.37 | 100 | 57 | peak | |
| 9 | * | 10486.000 | 35.98 | 6.50 | 42.48 | 54.00 | -11.52 | 100 | 57 | AVG | |

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

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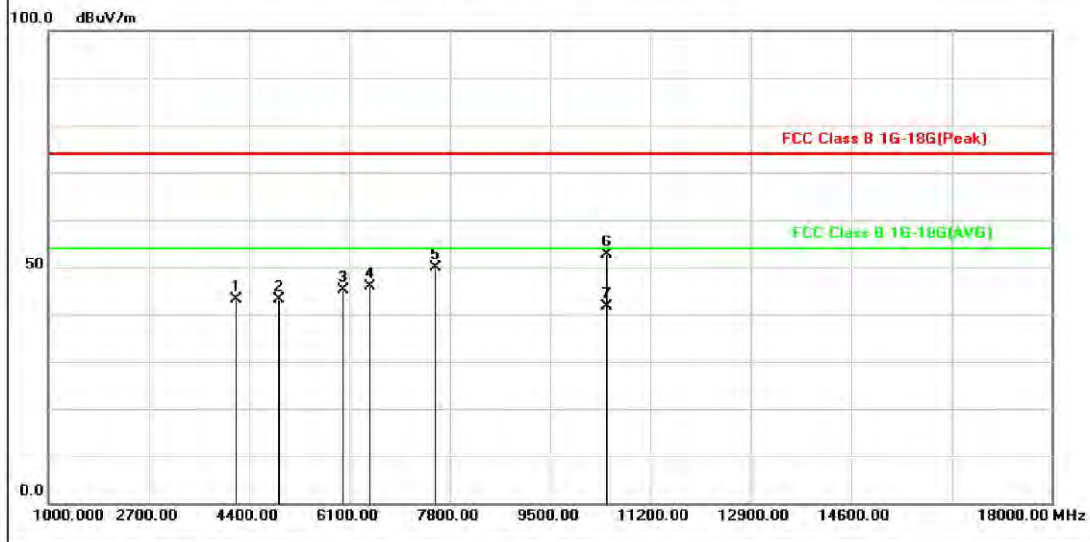
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Config_3_V

| | | |
|---------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/6 | Time: 下午 02:36:20 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Vertical | Temperature: 23 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 65 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 1015 hpa |
| Tester: Boris Liao | | |
| Note: MP3 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 4179.000 | 51.40 | -8.35 | 43.05 | 74.00 | -30.95 | | | peak | |
| 2 | | 4910.000 | 50.39 | -7.31 | 43.08 | 74.00 | -30.92 | | | peak | |
| 3 | | 5998.000 | 49.22 | -4.20 | 45.02 | 74.00 | -28.98 | | | peak | |
| 4 | | 6457.000 | 48.29 | -2.50 | 45.79 | 74.00 | -28.21 | | | peak | |
| 5 | | 7562.000 | 48.26 | 1.53 | 49.79 | 74.00 | -24.21 | | | peak | |
| 6 | | 10469.000 | 46.06 | 6.50 | 52.56 | 74.00 | -21.44 | 100 | 30 | peak | |
| 7 | * | 10469.000 | 35.05 | 6.50 | 41.55 | 54.00 | -12.45 | 100 | 30 | AVG | |

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

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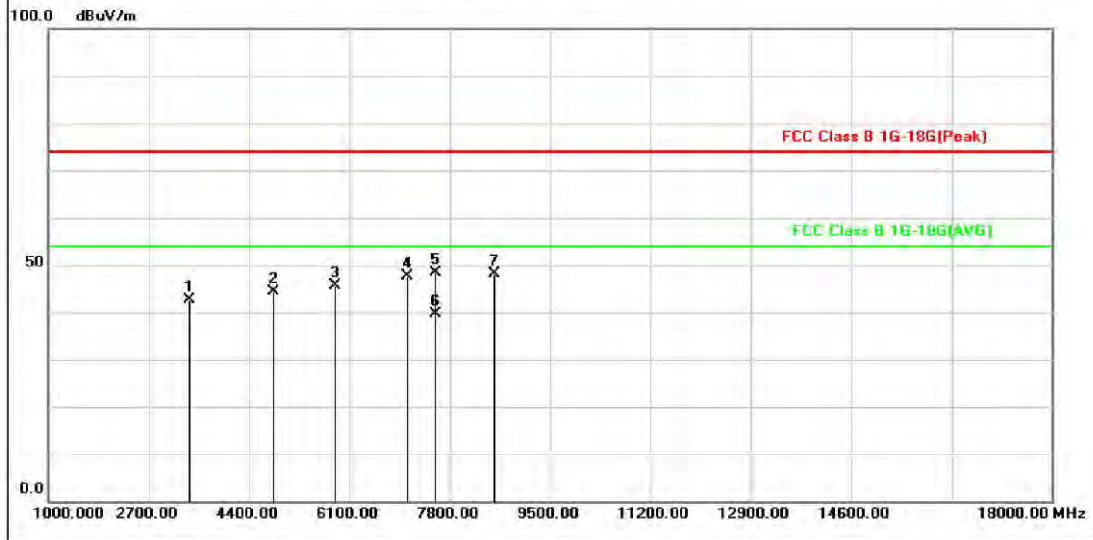
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Config_4_H

| | | |
|---------------------------------|---------------------------------|-----------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 03:06:13 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Horizontal | Temperature: 22 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 58 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 999 hpa |
| Tester: Boris Liao | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 3380.000 | 53.32 | -10.62 | 42.70 | 74.00 | -31.30 | | | peak | |
| 2 | | 4825.000 | 51.67 | -7.37 | 44.30 | 74.00 | -29.70 | | | peak | |
| 3 | | 5862.000 | 50.21 | -4.68 | 45.53 | 74.00 | -28.47 | | | peak | |
| 4 | | 7086.000 | 47.45 | 0.13 | 47.58 | 74.00 | -26.42 | | | peak | |
| 5 | | 7562.000 | 46.80 | 1.53 | 48.33 | 74.00 | -25.67 | 105 | 201 | peak | |
| 6 | * | 7562.000 | 38.12 | 1.53 | 39.65 | 54.00 | -14.35 | 105 | 201 | AVG | |
| 7 | | 8548.000 | 46.15 | 2.00 | 48.15 | 74.00 | -25.85 | | | peak | |

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

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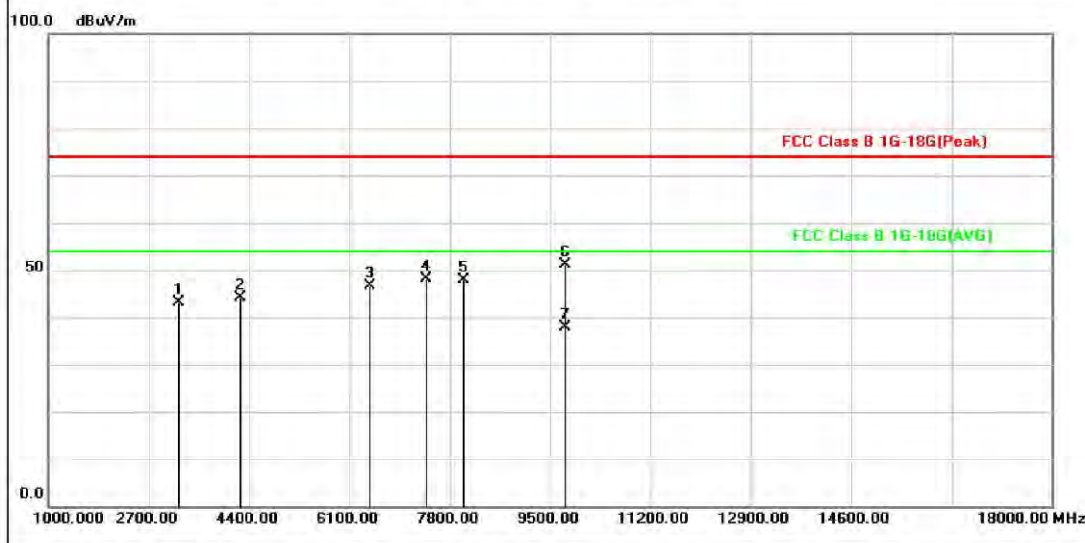
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Config_4_V

| | | |
|---------------------------------|-------------------------------|-----------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 02:57:44 |
| Limit: FCC Class B 1G-18G(Peak) | Polarization: Vertical | Temperature: 22 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 58 % |
| Report: MH-2019-A0118 | Distance: 3m | Air Pressure: 999 hpa |
| Tester: Boris Liao | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 3210.000 | 53.33 | -10.31 | 43.02 | 74.00 | -30.98 | | | peak | |
| 2 | | 4247.000 | 52.36 | -8.20 | 44.16 | 74.00 | -29.84 | | | peak | |
| 3 | | 6457.000 | 49.25 | -2.50 | 46.75 | 74.00 | -27.25 | | | peak | |
| 4 | | 7392.000 | 46.66 | 1.42 | 48.08 | 74.00 | -25.92 | | | peak | |
| 5 | | 8038.000 | 45.43 | 2.47 | 47.90 | 74.00 | -26.10 | | | peak | |
| 6 | | 9755.000 | 45.77 | 5.32 | 51.09 | 74.00 | -22.91 | 100 | 199 | peak | |
| 7 | * | 9755.000 | 32.53 | 5.32 | 37.85 | 54.00 | -16.15 | 100 | 199 | AVG | |

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

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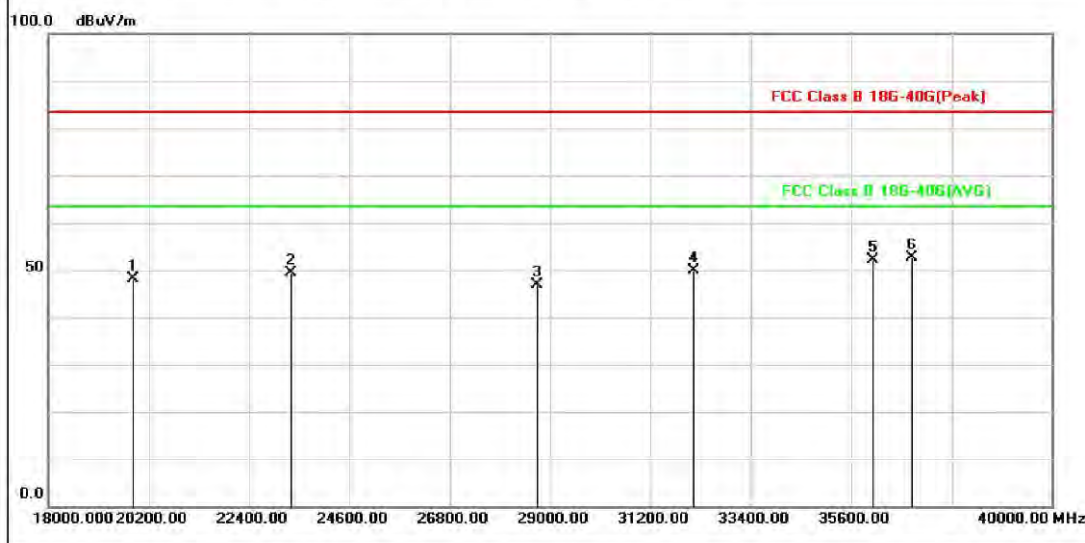


18GHz ~ 40GHz

Config_1_H

| | | |
|----------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 06:40:48 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: WCDMA BIV | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19848.000 | 46.97 | 1.19 | 48.16 | 83.50 | -35.34 | | | peak | |
| 2 | | 23324.000 | 45.83 | 3.52 | 49.35 | 83.50 | -34.15 | | | peak | |
| 3 | | 28714.000 | 43.23 | 3.53 | 46.76 | 83.50 | -36.74 | | | peak | |
| 4 | | 32146.000 | 42.98 | 6.80 | 49.78 | 83.50 | -33.72 | | | peak | |
| 5 | | 36084.000 | 42.75 | 9.37 | 52.12 | 83.50 | -31.38 | | | peak | |
| 6 | * | 36942.000 | 41.03 | 11.52 | 52.55 | 83.50 | -30.95 | 100 | 169 | peak | |

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

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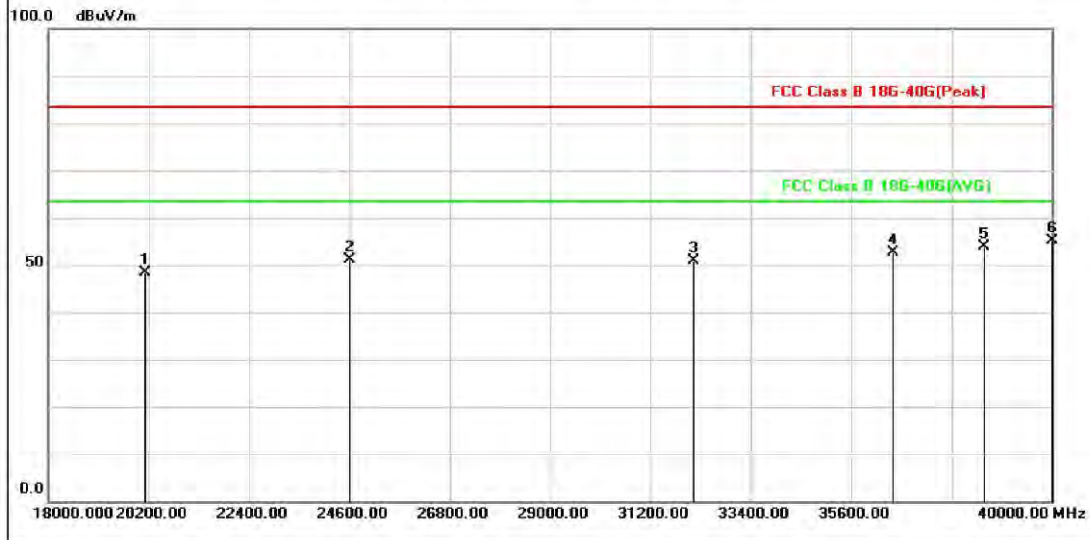
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Config_1_V

| | | |
|----------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 06:39:22 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 1 | Power: AC 120V/60Hz | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: WCDMA BIV | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 20134.000 | 47.22 | 1.26 | 48.48 | 83.50 | -35.02 | | | peak | |
| 2 | | 24622.000 | 46.29 | 4.72 | 51.01 | 83.50 | -32.49 | | | peak | |
| 3 | | 32146.000 | 44.15 | 6.80 | 50.95 | 83.50 | -32.55 | | | peak | |
| 4 | | 36524.000 | 42.42 | 10.27 | 52.69 | 83.50 | -30.81 | | | peak | |
| 5 | | 38504.000 | 39.31 | 14.51 | 53.82 | 83.50 | -29.68 | | | peak | |
| 6 | * | 40000.000 | 37.05 | 18.00 | 55.05 | 83.50 | -28.45 | 100 | 177 | peak | |

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

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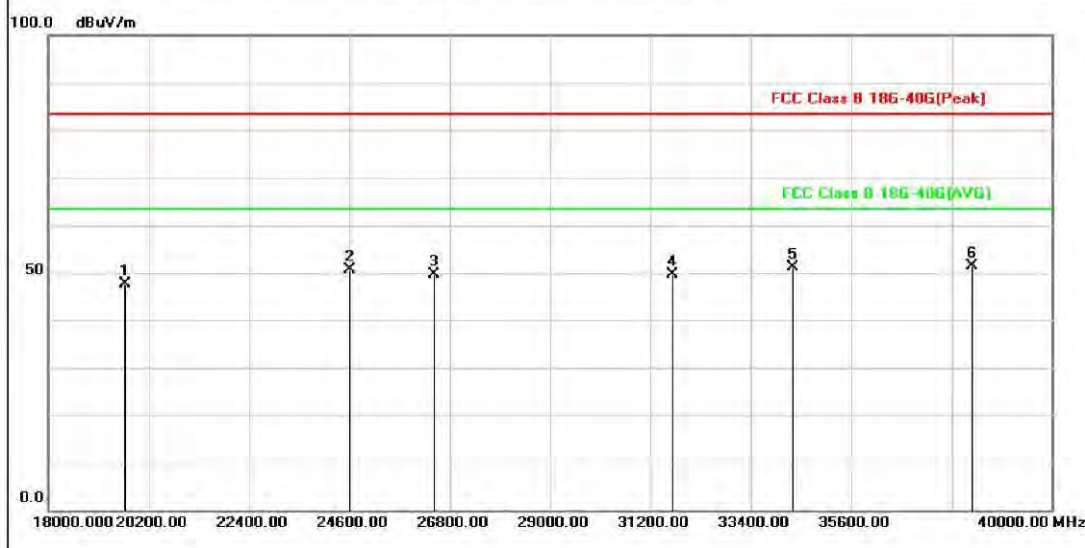
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Config_2_H

| | | |
|----------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 06:53:52 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 2 | Power: From System | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: Data External Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19672.000 | 46.68 | 0.95 | 47.63 | 83.50 | -35.87 | | | peak | |
| 2 | | 24622.000 | 45.94 | 4.72 | 50.66 | 83.50 | -32.84 | | | peak | |
| 3 | | 26470.000 | 45.71 | 3.93 | 49.64 | 83.50 | -33.86 | | | peak | |
| 4 | | 31684.000 | 43.39 | 6.18 | 49.57 | 83.50 | -33.93 | | | peak | |
| 5 | | 34324.000 | 44.00 | 7.14 | 51.14 | 83.50 | -32.36 | | | peak | |
| 6 | * | 38262.000 | 37.91 | 13.59 | 51.50 | 83.50 | -32.00 | 100 | 170 | peak | |

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

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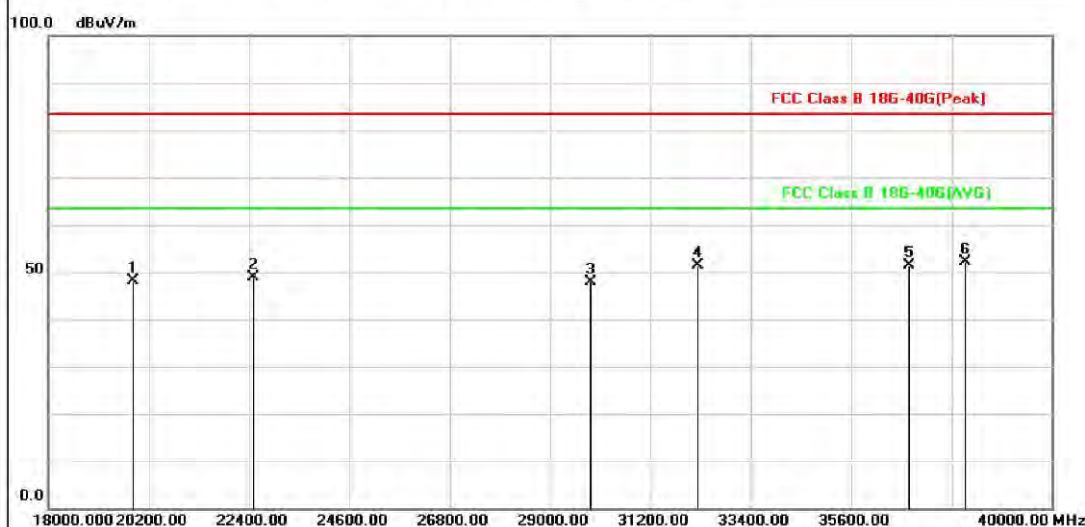
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Config_2_V

| | | |
|----------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 06:52:12 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 2 | Power: From System | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: Data External Read | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19848.000 | 46.95 | 1.19 | 48.14 | 83.50 | -35.36 | | | peak | |
| 2 | | 22488.000 | 45.64 | 3.28 | 48.92 | 83.50 | -34.58 | | | peak | |
| 3 | | 29880.000 | 43.59 | 4.35 | 47.94 | 83.50 | -35.56 | | | peak | |
| 4 | | 32234.000 | 44.66 | 6.67 | 51.33 | 83.50 | -32.17 | | | peak | |
| 5 | | 36876.000 | 39.93 | 11.33 | 51.26 | 83.50 | -32.24 | | | peak | |
| 6 | * | 38108.000 | 39.09 | 13.01 | 52.10 | 83.50 | -31.40 | 100 | 176 | peak | |

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

Page: 1

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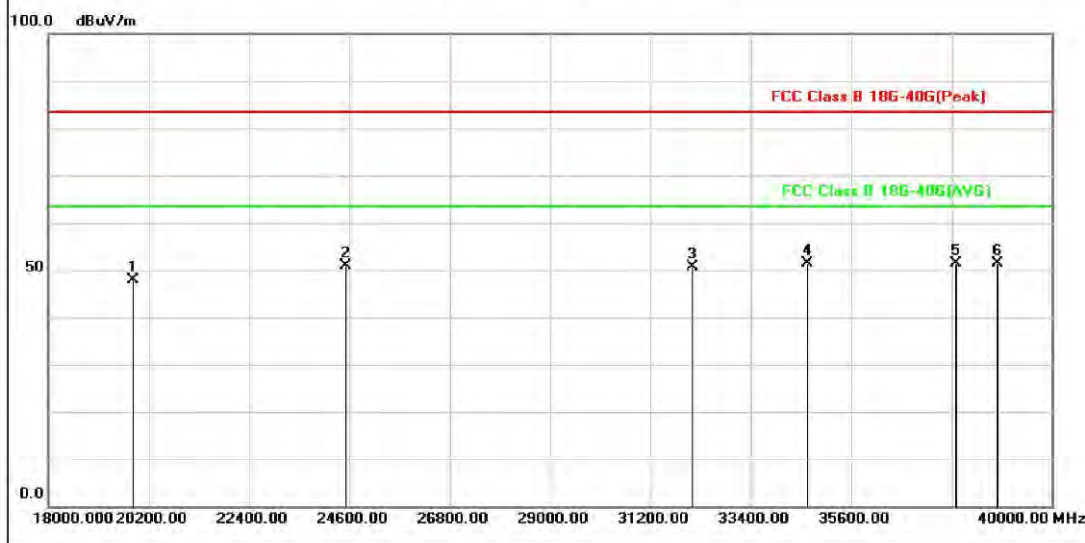
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Config_3_H

| | | |
|----------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 07:16:54 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: MP3 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19848.000 | 46.62 | 1.19 | 47.81 | 83.50 | -35.69 | | | peak | |
| 2 | | 24512.000 | 46.04 | 4.80 | 50.84 | 83.50 | -32.66 | | | peak | |
| 3 | | 32124.000 | 43.76 | 6.82 | 50.58 | 83.50 | -32.92 | | | peak | |
| 4 | | 34632.000 | 43.88 | 7.42 | 51.30 | 83.50 | -32.20 | | | peak | |
| 5 | * | 37888.000 | 39.08 | 12.38 | 51.46 | 83.50 | -32.04 | 100 | 175 | peak | |
| 6 | | 38812.000 | 36.64 | 14.62 | 51.26 | 83.50 | -32.24 | | | peak | |

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

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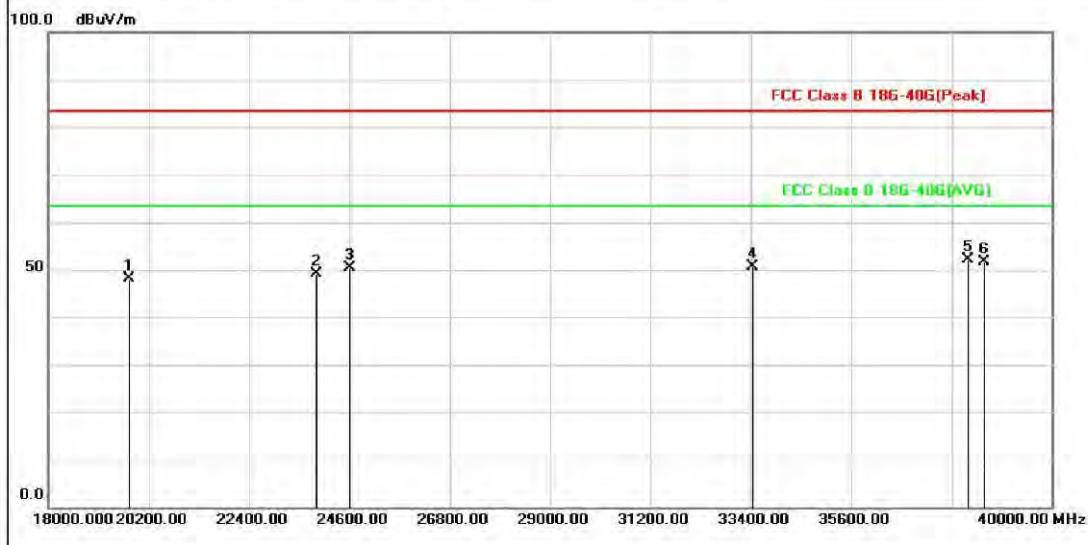
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Config_3_V

| | | |
|----------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 07:15:38 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 3 | Power: From Battery | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: MP3 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19782.000 | 47.04 | 1.09 | 48.13 | 83.50 | -35.37 | | | peak | |
| 2 | | 23874.000 | 45.39 | 3.70 | 49.09 | 83.50 | -34.41 | | | peak | |
| 3 | | 24600.000 | 45.72 | 4.74 | 50.46 | 83.50 | -33.04 | | | peak | |
| 4 | | 33444.000 | 43.84 | 6.87 | 50.71 | 83.50 | -32.79 | | | peak | |
| 5 | * | 38152.000 | 38.94 | 13.17 | 52.11 | 83.50 | -31.39 | 100 | 184 | peak | |
| 6 | | 38526.000 | 37.11 | 14.51 | 51.62 | 83.50 | -31.88 | | | peak | |

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

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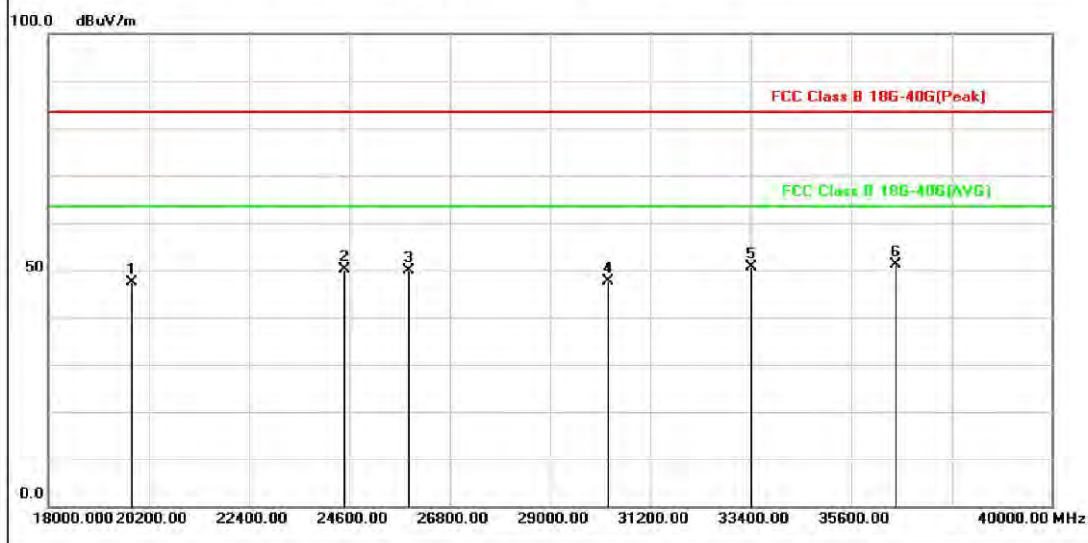
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Config_4_H

| | | |
|----------------------------------|---------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 07:29:33 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Horizontal | Temperature: 21 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19826.000 | 46.24 | 1.15 | 47.39 | 83.50 | -36.11 | | | peak | |
| 2 | | 24490.000 | 45.36 | 4.78 | 50.14 | 83.50 | -33.36 | | | peak | |
| 3 | | 25898.000 | 45.52 | 4.32 | 49.84 | 83.50 | -33.66 | | | peak | |
| 4 | | 30276.000 | 43.26 | 4.34 | 47.60 | 83.50 | -35.90 | | | peak | |
| 5 | | 33422.000 | 43.71 | 6.85 | 50.56 | 83.50 | -32.94 | | | peak | |
| 6 | * | 36590.000 | 40.58 | 10.47 | 51.05 | 83.50 | -32.45 | 100 | 183 | peak | |

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

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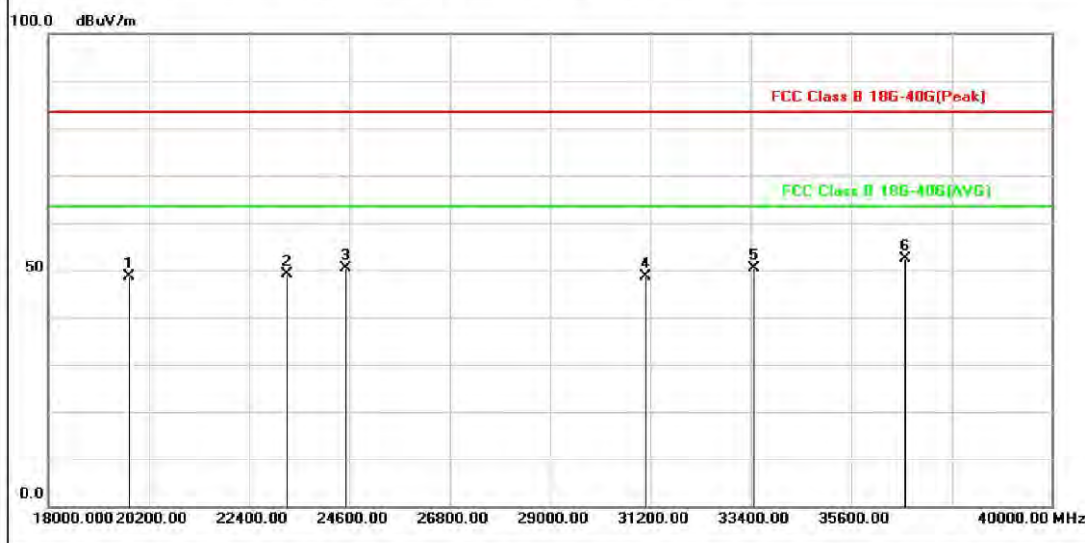
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Config_4_V

| | | |
|----------------------------------|-------------------------------|------------------------|
| Site: SGS 966 Chamber A | Date: 2019/11/19 | Time: 下午 07:28:40 |
| Limit: FCC Class B 18G-40G(Peak) | Polarization: Vertical | Temperature: 21 °C |
| Mode: Config 4 | Power: AC 120V/60Hz | Humidity: 61 % |
| Report: MH-2019-A0118 | Distance: 1m | Air Pressure: 1002 hpa |
| Tester: Boris Liao | | |
| Note: GSM 850 | | |

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| No. | Mk | Freq. (MHz) | Reading (dBuV) | Factor (dB/m) | Measurement (dBuV/m) | Limit (dBuV/m) | Over (dB) | Height (cm) | Degree (deg.) | Detector | Comment |
|-----|----|----------------|-------------------|------------------|-------------------------|-------------------|--------------|----------------|------------------|----------|---------|
| 1 | | 19782.000 | 47.46 | 1.09 | 48.55 | 83.50 | -34.95 | | | peak | |
| 2 | | 23236.000 | 45.79 | 3.43 | 49.22 | 83.50 | -34.28 | | | peak | |
| 3 | | 24512.000 | 45.58 | 4.80 | 50.38 | 83.50 | -33.12 | | | peak | |
| 4 | | 31090.000 | 43.87 | 4.72 | 48.59 | 83.50 | -34.91 | | | peak | |
| 5 | | 33466.000 | 43.60 | 6.88 | 50.48 | 83.50 | -33.02 | | | peak | |
| 6 | * | 36788.000 | 41.28 | 11.07 | 52.35 | 83.50 | -31.15 | 100 | 190 | peak | |

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

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