



FCC Part 15.247

TEST REPORT

For

Kiwi technology Inc.

4F., No. 158, Sec. 1, Wenxing Rd., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.)

FCC ID: 2AKIBLAS604V23

| | |
|--------------------|---|
| Report Type | Original Report |
| Product Name: | LoRa Temperature Sensor |
| Model Name: | LAS-604V3(LCM) |
| Series Model Name: | LAS-604V2(W/O LCM) |
| Report Number : | RLK191122001-00B |
| Report Date : | 2020/01/02 |
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Note: This test report is prepared for the customer shown above and for the device described herein. It may not be duplicated or used in part without prior written consent from Bay Area Compliance Laboratories Corp. (Linkou Laboratory)

Revision History

| Revision | Report Number | Issue Date | Description |
|----------|------------------|------------|-----------------|
| 1.0 | RLK191122001-00B | 2020/01/02 | Original Report |

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1 General Information

1.1 Product Description for Equipment under Test (EUT)

| | |
|--------------------------------------|--|
| Applicant | Kiwi technology Inc. 4F., No.158, Sec. 1, Wenxing Rd., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.) |
| Manufacturer | Kiwi technology Inc. 4F., No.158, Sec. 1, Wenxing Rd., Zhubei City, Hsinchu County 302, Taiwan (R.O.C.) |
| Brand Name | Kiwi technology Inc. |
| Product (Equipment) | LoRa Temperature Sensor |
| Model Name | LAS-604V3(LCM) |
| Serial Model | LAS-604V2(W/O LCM) |
| Model Discrepancy | LAS-604V3 with LCD Monitor LAS-604V2 without LCD Monitor |
| Frequency Range | 902.3 MHz to 914.9 MHz |
| Number of Channels | 64 Channels |
| Channel Space | 125 kHz |
| Output Power | 6.98 dBm (0.0050 W) |
| Modulation Type | FSK |
| Related Submittal(s)/Grant(s) | FCC Part 15.247 DTS with FCC ID : 2AKIBLAS604V23 |
| Received Date | Nov 22, 2019 |
| Date of Test | Dec 17, 2019 ~ Dec 20, 2019 |

**All measurement and test data in this report was gathered from production sample serial number: 191122001 (Assigned by BACL, LinKou).*

1.2 Operation Condition of EUT

| | |
|------------------------------------|--|
| Power Operation (Voltage Range) | <input type="checkbox"/> AC 120 V/60 Hz <input type="checkbox"/> Adapter <input type="checkbox"/> By Power Cord. |
| | <input checked="" type="checkbox"/> DC Type <input type="checkbox"/> DC Power Supply <input checked="" type="checkbox"/> Battery 1: Brand Name: Panasonic Model: CR-AGDCF2TN Rating: 2400mAh Battery 2: Brand Name: FDK Model: CR17450E-R Rating: 2500mAh <input type="checkbox"/> External from USB Cable <input type="checkbox"/> External DC Adapter |
| | <input type="checkbox"/> Host System |
| | |

1.3 Objective and Test Methodology

The Objective of this Test Report was to document the compliance of the Kiwi technology Inc. Appliance (Model: LAS-604V3(LCM); LAS-604V2(W/O LCM)) to the requirements of the following Standards:

- Part 2, Subpart J, Part 15, Subparts A and C, section 15.247 of the Federal Communication Commission's rules.
- ANSI C63.10-2013 of t American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

1.4 Measurement Uncertainty

| Parameter | Expanded Measurement uncertainty |
|----------------------------------|----------------------------------|
| RF output power | ± 1.488 dB |
| Occupied Channel Bandwidth | ± 453.927 Hz |
| RF Conducted Emission test | ± 2.77 dB |
| AC Power Line Conducted Emission | ± 2.66 dB |
| Radiated Below 1G | ± 3.57 dB |
| Radiated Above 1G | ± 5.32 dB |

1.5 Test Environments and Test information

| Item | Test Date | Temperature (°C) | Relative Humidity (%) | Test Engineer |
|-----------------------|------------|------------------|-----------------------|---------------|
| Radiated Test (966A) | 2019-12-17 | 21.0 | 48.0 | Leo Cheng |
| Conducted Test (TH02) | 2019-12-20 | 21.7 | 61.0 | Ethan Shao |

1.6 Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Linkou Laboratory) to collect test data is located on

☒ No.6, Wende 2Rd., Guishan Dist., Taoyuan City 33382, Taiwan (R.O.C.).

Bay Area Compliance Laboratories Corp. (Linkou Laboratory) Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 3546) by Mutual Recognition Agreement (MRA). The test site has been approved by the FCC under the KDB 974614 D01 and is listed in the FCC Public Access Link (PAL) database. The FCC Registration No.: 0027578244. Designation No.: TW3546. The Test Firm Registration No.: 181430.

2 System Test Configuration

2.1 Description of Test Configuration

The system was configured for testing in testing mode which was provided by manufacturer.

No special accessory, No modification was made to the EUT and No special equipment used during test.

For 902.3 MHz to 914.9 MHz, there are totally 64 channels.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|
| 1 | 902.3 | 32 | 908.5 |
| 2 | 902.5 | 33 | 908.7 |
| 3 | 902.7 | -- | -- |
| 4 | 902.9 | 62 | 914.5 |
| -- | -- | 63 | 914.7 |
| 31 | 908.3 | 64 | 914.9 |

Channel **1**, **32** and **64** were tested.

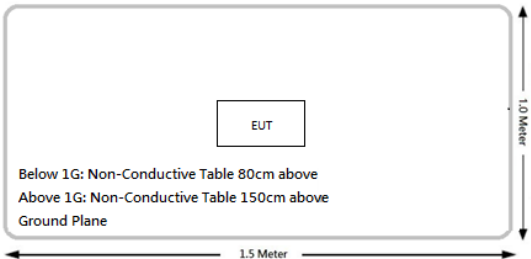
| Worst Case of Power Setting | | | | |
|-----------------------------|-----|---------|--------|---------|
| EUT Exercise Software | | Command | | |
| Configuration | NTX | Low CH | Mid CH | High CH |
| 902.3 MHz to 914.9 MHz | 1 | 4 | 5 | 4 |

2.2 Support Equipment List and Details

| No. | Description | Manufacturer | Model Number |
|-----|---------------------|--------------|----------------|
| A | Notebook | DELL | Latitude E5510 |
| B | Adapter (for E5510) | DELL | DA65NM111-00 |
| C | Notebook | DELL | Latitude E6410 |
| D | Adapter (for E6410) | DELL | LA65NM130 |
| E | Battery | Panasonic | CR-AGDCF2TN |
| F | Battery | FDK | CR17450E-R |

| No. | Description | Brand | Shielded Type | Ferrite Core | Length (M) |
|-----|--------------|------------|---------------|--------------|------------|
| 1 | Sensor Cable | LIAN SHENG | Non-Shielded | NA | 5 |
| 2 | Sensor Cable | LIAN SHENG | Non-Shielded | NA | 3 |

2.3 Block Diagram of Test Setup

| Conduction | Radiation |
|------------|---|
| - |  <p>Below 1G: Non-Conductive Table 80cm above Above 1G: Non-Conductive Table 150cm above Ground Plane</p> |

3 Summary of Test Results

| FCC Rules | Description of Test | Result |
|-------------------------------|--|---------------|
| §15.247(i), §1.1307, § 2.1091 | Maximum Permissible Exposure (MPE) | Compliance |
| §15.203 | Antenna Requirement | Compliance |
| §15.207(a) | AC Line Conducted Emissions | Not Appliance |
| §15.205, §15.209, §15.247(d) | Spurious Emissions | Compliance |
| §15.247(a)(1) | 20 dB Emission Bandwidth | Compliance |
| §15.247(a)(1) | Channel Separation Test | Compliance |
| §15.247(a)(1)(iii) | Time of Occupancy (Dwell Time) | Compliance |
| §15.247(a)(1)(iii) | Quantity of hopping channel Test | Compliance |
| §15.247(b)(3) | Maximum Peak Output Power | Compliance |
| §15.247(d) | 100 kHz Bandwidth of Frequency Band Edge | Compliance |

Not Appliance: EUT Power by Battery.

4 FCC§15.247(i), §1.1307, § 2.1091 – Maximum Permissible Exposure (MPE)

4.1 Applicable Standard

According to subpart 15.247(i) and subpart §1.1310, systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the Commission's guidelines.

Limits for Maximum Permissible Exposure (MPE) (§1.1310, §2.1091)

| (B) Limits for General Population/Uncontrolled Exposure | | | | |
|---|-------------------------------|-------------------------------|-------------------------------------|--------------------------|
| Frequency Range (MHz) | Electric Field Strength (V/m) | Magnetic Field Strength (A/m) | Power Density (mW/cm ²) | Averaging Time (minutes) |
| 0.3–1.34 | 614 | 1.63 | *(100) | 30 |
| 1.34–30 | 824/f | 2.19/f | *(180/f ²) | 30 |
| 30–300 | 27.5 | 0.073 | 0.2 | 30 |
| 300–1500 | / | / | f/1500 | 30 |
| 1500–100,000 | / | / | 1.0 | 30 |

f = frequency in MHz; * = Plane-wave equivalent power density;

According to §1.1310 and §2.1091 RF exposure is calculated.

Calculated Formulary: Predication of MPE limit at a given distance

$S = PG/4\pi R^2$ = power density (in appropriate units, e.g. mW/cm²);

P = power input to the antenna (in appropriate units, e.g., mW);

G = power gain of the antenna in the direction of interest relative to an isotropic radiator, the power gain factor, is normally numeric gain;

R = distance to the center of radiation of the antenna (appropriate units, e.g., cm);

For simultaneously transmit system, the calculated power density should comply with:

$$\sum_i \frac{S_i}{S_{Limit,i}} \leq 1$$

4.2 RF Exposure Evaluation Result

MPE Evaluation:

| Mode | Frequency Range (MHz) | Antenna Gain | | Target Power | | Evaluation Distance (cm) | Power Density (mW/cm ²) | MPE Limit (mW/cm ²) |
|------|-----------------------|--------------|-----------|--------------|--------|--------------------------|-------------------------------------|---------------------------------|
| | | (dBi) | (numeric) | (dBm) | (mW) | | | |
| DSS | 902.3 to 914.9 | 0.25 | 1.0593 | 7.00 | 5.0119 | 20 | 0.0011 | 1.0 |
| DTS | 903.0 to 914.2 | 0.25 | 1.0593 | 8 | 6.3096 | 20 | 0.0013 | 1.0 |

Not simultaneously transmit system

Result: MPE evaluation of single transmission meet the requirement of standard.

5 FCC §15.203 – Antenna Requirements

5.1 Applicable Standard

According to § 15.203, an intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator shall be considered sufficient to comply with the provisions of this section. The manufacturer may design the unit so that a broken antenna can be replaced by the user, but the user of a standard antenna jack or electrical connector is prohibited.

And according to FCC 47 CFR section 15.247 (b), if the transmitting antennas of directional gain greater than 6dBi are used, the power shall be reduced by the amount in dB that the directional gain of the antenna does not exceed 6dBi

5.2 Antenna List and Details

| Brand | Model | Antenna Type | Antenna Gain | Result |
|----------------------|----------------|----------------|--------------|------------|
| Kiwi technology Inc. | GY196IT021-003 | Dipole Antenna | 0.25 dBi | Compliance |

The EUT has an internal antenna arrangement, which was permanently attached, fulfill the requirement of this section.

6 FCC §15.209, §15.205, §15.247(d) – Spurious Emissions

6.1 Applicable Standard

As per FCC §15.35(d): Unless otherwise specified, on any frequency or frequencies above 1000 MHz, the radiated emission limits are based on the use of measurement instrumentation employing an average detector function. Unless otherwise specified, measurements above 1000 MHz shall be performed using a minimum resolution bandwidth of 1MHz.

As Per FCC §15.205(a) except as show in paragraph (d) of this section, only spurious emissions are permitted in any of the frequency bands listed below:

| MHz | MHz | MHz | GHz |
|-------------------|---------------------|---------------|-------------|
| 0.090-0.110 | 13.36-13.41 | 399.9-410 | 4.5-5.15 |
| 0.495-0.505 | 16.42-16.423 | 608-614 | 5.35-5.46 |
| 2.1735-2.1905 | 16.69475-16.69525 | 960-1240 | 7.25-7.75 |
| 4.125-4.128 | 25.5-25.67 | 1300-1427 | 8.025-8.5 |
| 4.17725-4.17775 | 37.5-38.25 | 1435-1626.5 | 9.0-9.2 |
| 4.20725-4.20775 | 73-74.6 | 1645.5-1646.5 | 9.3-9.5 |
| 6.215-6.218 | 74.8-75.2 | 1660-1710 | 10.6-12.7 |
| 6.26775-6.26825 | 108-121.94 | 1718.8-1722.2 | 13.25-13.4 |
| 6.31175-6.31225 | 123-138 | 2200-2300 | 14.47-14.5 |
| 8.291-8.294 | 149.9-150.05 | 2310-2390 | 15.35-16.2 |
| 8.362-8.366 | 156.52475-156.52525 | 2483.5-2500 | 17.7-21.4 |
| 8.37625-8.38675 | 156.7-156.9 | 2690-2900 | 22.01-23.12 |
| 8.41425-8.41475 | 162.0125-167.17 | 3260-3267 | 23.6-24.0 |
| 12.29-12.293 | 167.72-173.2 | 3332-3339 | 31.2-31.8 |
| 12.51975-12.52025 | 240-285 | 3345.8-3358 | 36.43-36.5 |
| 12.57675-12.57725 | 322-335.4 | 3600-4400 | Above 38.6 |

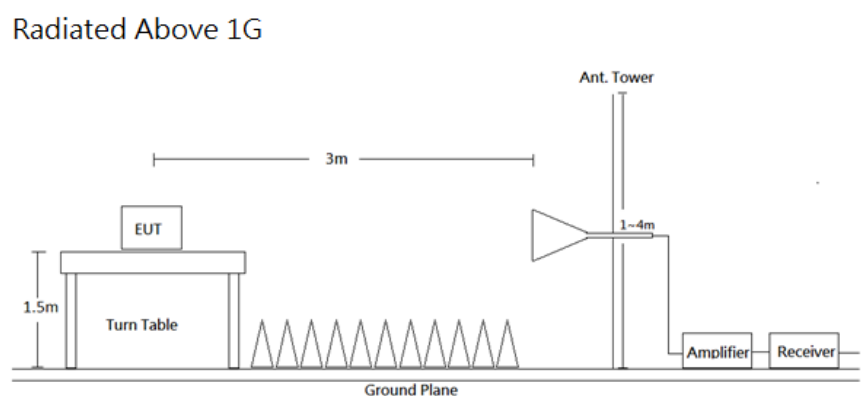
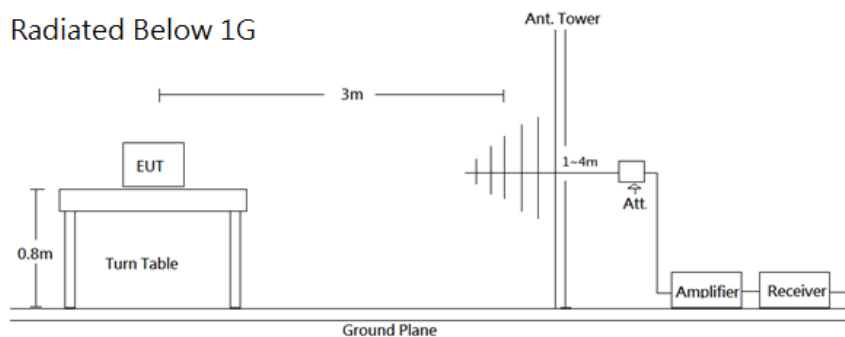
As per FCC §15.209(a): Except as provided elsewhere in this Subpart, the emissions from an intentional radiator shall not exceed the field strength levels specified in the following table:

| Frequency (MHz) | Field Strength (micro volts/meter) | Measurement Distance (meters) |
|-----------------|------------------------------------|-------------------------------|
| 0.009 - 0.490 | 2400/F(kHz) | 300 |
| 0.490 - 1.705 | 24000/F(kHz) | 30 |
| 1.705 - 30.0 | 30 | 30 |
| 30 - 88 | 100** | 3 |
| 88 - 216 | 150** | 3 |
| 216 - 960 | 200** | 3 |
| Above 960 | 500 | 3 |

** Except as provided in paragraph (g), fundamental emissions from intentional radiators operating under this Section shall not be located in the frequency bands 54-72 MHz, 76-88 MHz, 174-216 MHz or 470-806MHz. However, operation within these frequency bands is permitted under other sections of this Part, e.g., Sections 15.231 and 15.241.

As per FCC §15.247 (d) In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

6.2 EUT Setup and Test Procedure



Radiated emission tests were performed in the 3 meters chamber test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC Part 15.209 and FCC 15.247 Limits.

The system was investigated from 30 MHz to 10 GHz. During the radiated emission test, the EMI test receiver was set with the following configurations measurement method 6.3 in ANSI C63.10.

| Frequency Range | RBW | VBW | Duty cycle | Measurement method |
|-----------------|---------|-------|------------|--------------------|
| 30-1000 MHz | 120 kHz | / | - | QP |
| Above 1 GHz | 1 MHz | 3 MHz | - | PK |
| | 1 MHz | 10 Hz | >98% | Ave |

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations. All data was recorded in the Quasi-peak detector mode from 30 MHz to 1 GHz and PK and average detector modes for frequencies above 1 GHz.

6.3 Test Equipment List and Details

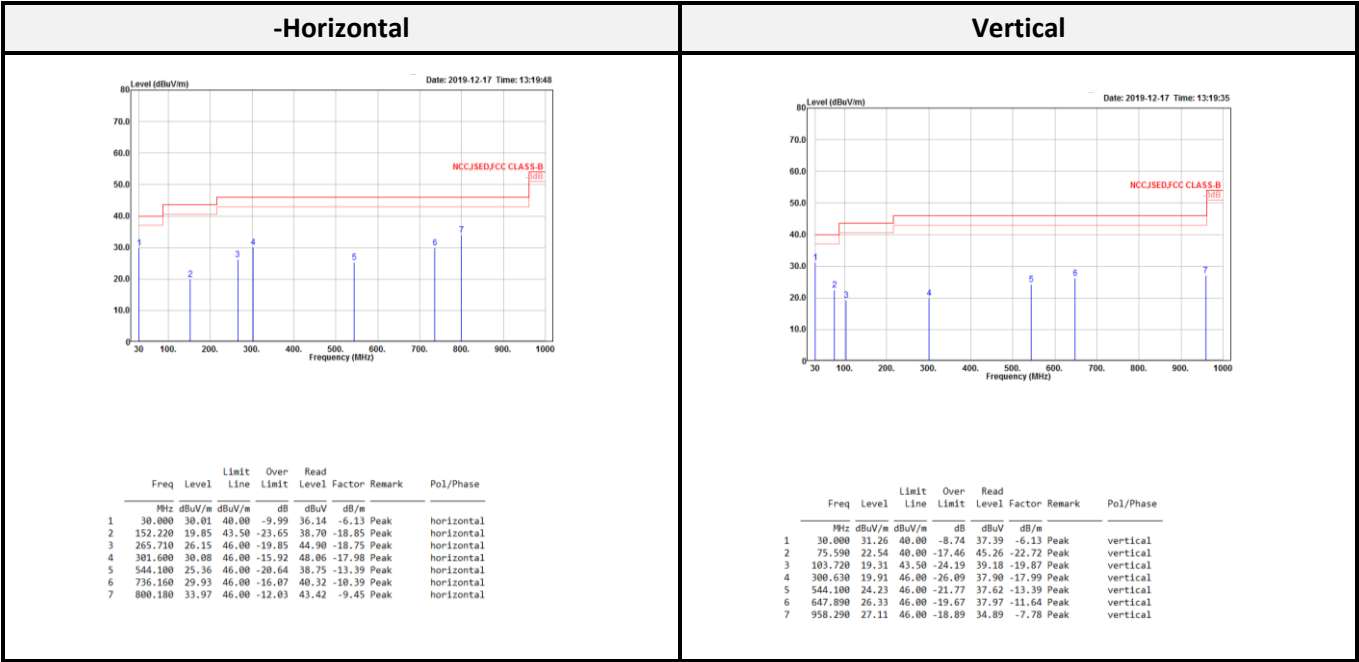
| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|---------------------------------|-----------------------------|-----------------------|----------------------|------------|------------|
| Radiation 3M Room (966A) | | | | | |
| Active Loop | EMCO | 6502 | 0001-3322 | 2019/03/15 | 2020/03/14 |
| Bilog Antenna/6 dB Attenuator | SUNOL SCIENCES & EMEC /EMCI | JB3/N-6-06 | A111513/AT-N0668 | 2019/03/29 | 2020/03/28 |
| Signal and Spectrum Analyzer | Rohde & Schwarz | FSV40 | 101434 | 2019/04/17 | 2020/04/16 |
| Horn Antenna | ETS-Lindgren | 3115 | 00109141 | 2019/07/05 | 2020/07/04 |
| Horn Antenna | ETS-Lindgren | 3160-09 | 00123852 | 2019/07/11 | 2020/07/10 |
| Preamplifier | A.H. Systems | PAM-1840VH | 174 | 2019/02/18 | 2020/02/17 |
| Preamplifier | A.H. Systems | PAM-0118 | 478 | 2019/03/28 | 2020/03/27 |
| Microflex Cable (1m) | EMCI | EMC106-SM-SM-2000 | 180515 | 2019/08/07 | 2020/08/06 |
| Microflex Cable (2m) | MTJ | H0919 | 00000-MT28A-100 | 2019/08/07 | 2020/08/06 |
| Microflex Cable (8m) | UTIFLEX | UFA210A-1-3149-300300 | MFR 64639 232490-001 | 2019/08/07 | 2020/08/06 |
| Turn Table | Chaintek | T-200-S-1 | 003501 | N.C.R | N.C.R |
| Antenna Tower | Chaintek | MBD-400-1 | 003504 | N.C.R | N.C.R |
| Controller | Chaintek | 3000-1 | 003507 | N.C.R | N.C.R |
| Software | Audix | e3 v9 | E3LK-01 | N.C.R | N.C.R |
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

6.4 Radiated Emission Test Plot and Data

Transmitting mode (Pre-scan with three orthogonal axis, and worse case as X axis)

Below 1G (30 MHz-1 GHz) test the worst power with FDK Battery



Note1: Transmit mode

Note2: Peak value can pass the limit of QP.

Note3:

Level = Read Level + Factor

Over Limit = Level – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported

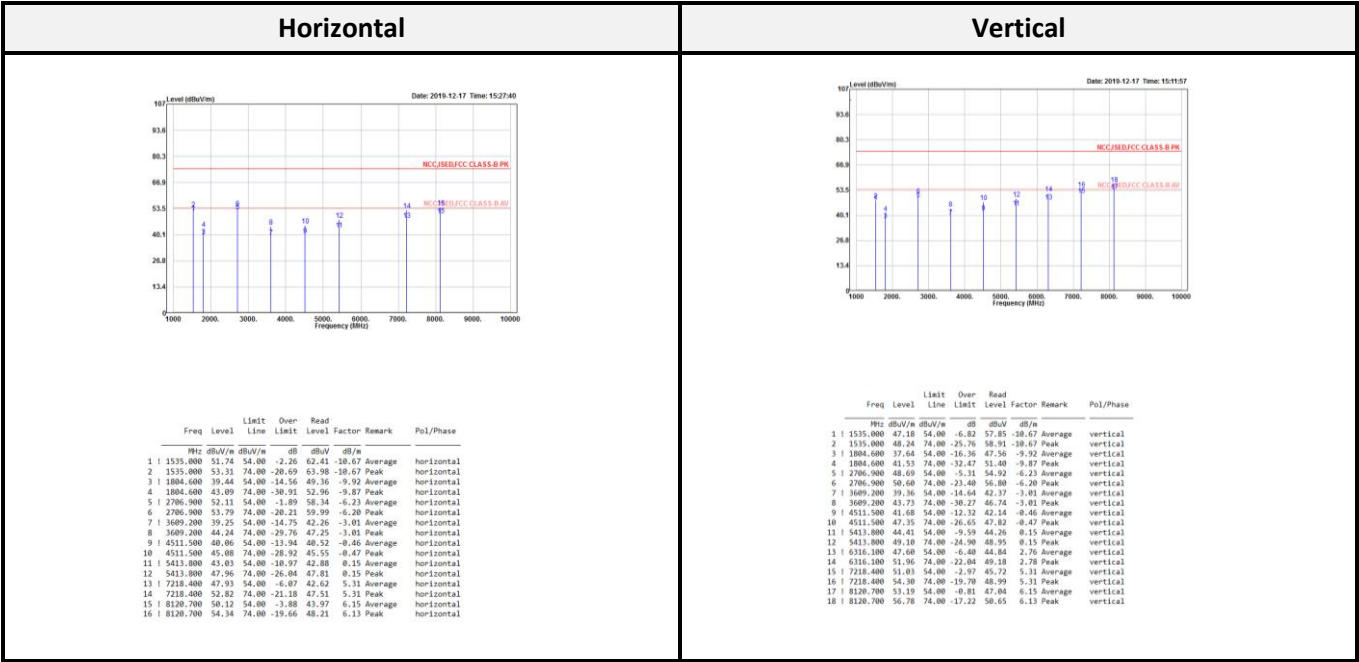
Above 1G (1 GHz-10 GHz)

| Low CH | | | | | | | | | | | | | |
|------------|--------|------------|------------|------------|--------|---------|----------|--------|------------|------------|------------|--------|---------|
| Horizontal | | | | | | | Vertical | | | | | | |
| Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark | Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | |
| 1535.000 | 51.74 | 54.00 | -2.26 | 62.41 | -10.67 | Average | 1535.000 | 47.18 | 54.00 | -6.82 | 57.85 | -10.67 | Average |
| 1535.000 | 53.31 | 74.00 | -20.69 | 63.98 | -10.67 | Peak | 1535.000 | 48.24 | 74.00 | -25.76 | 58.91 | -10.67 | Peak |
| 1804.600 | 39.44 | 54.00 | -14.56 | 49.36 | -9.92 | Average | 1804.600 | 37.64 | 54.00 | -16.36 | 47.56 | -9.92 | Average |
| 1804.600 | 43.09 | 74.00 | -30.91 | 52.96 | -9.87 | Peak | 1804.600 | 41.53 | 74.00 | -32.47 | 51.40 | -9.87 | Peak |
| 2706.900 | 52.11 | 54.00 | -1.89 | 58.34 | -6.23 | Average | 2706.900 | 48.69 | 54.00 | -5.31 | 54.92 | -6.23 | Average |
| 2706.900 | 53.79 | 74.00 | -20.21 | 59.99 | -6.20 | Peak | 2706.900 | 50.60 | 74.00 | -23.40 | 56.80 | -6.20 | Peak |
| 3609.200 | 39.25 | 54.00 | -14.75 | 42.26 | -3.01 | Average | 3609.200 | 39.36 | 54.00 | -14.64 | 42.37 | -3.01 | Average |
| 3609.200 | 44.24 | 74.00 | -29.76 | 47.25 | -3.01 | Peak | 3609.200 | 43.73 | 74.00 | -30.27 | 46.74 | -3.01 | Peak |
| 4511.500 | 40.06 | 54.00 | -13.94 | 40.52 | -0.46 | Average | 4511.500 | 41.68 | 54.00 | -12.32 | 42.14 | -0.46 | Average |
| 4511.500 | 45.08 | 74.00 | -28.92 | 45.55 | -0.47 | Peak | 4511.500 | 47.35 | 74.00 | -26.65 | 47.82 | -0.47 | Peak |
| 5413.800 | 43.03 | 54.00 | -10.97 | 42.88 | 0.15 | Average | 5413.800 | 44.41 | 54.00 | -9.59 | 44.26 | 0.15 | Average |
| 5413.800 | 47.96 | 74.00 | -26.04 | 47.81 | 0.15 | Peak | 5413.800 | 49.10 | 74.00 | -24.90 | 48.95 | 0.15 | Peak |
| 7218.400 | 47.93 | 54.00 | -6.07 | 42.62 | 5.31 | Average | 6316.100 | 47.60 | 54.00 | -6.40 | 44.84 | 2.76 | Average |
| 7218.400 | 52.82 | 74.00 | -21.18 | 47.51 | 5.31 | Peak | 6316.100 | 51.96 | 74.00 | -22.04 | 49.18 | 2.78 | Peak |
| 8120.700 | 50.12 | 54.00 | -3.88 | 43.97 | 6.15 | Average | 7218.400 | 51.03 | 54.00 | -2.97 | 45.72 | 5.31 | Average |
| 8120.700 | 54.34 | 74.00 | -19.66 | 48.21 | 6.13 | Peak | 7218.400 | 54.30 | 74.00 | -19.70 | 48.99 | 5.31 | Peak |
| | | | | | | | 8120.700 | 53.19 | 54.00 | -0.81 | 47.04 | 6.15 | Average |
| | | | | | | | 8120.700 | 56.78 | 74.00 | -17.22 | 50.65 | 6.13 | Peak |

| Middle CH | | | | | | | | | | | | | |
|------------|--------|------------|------------|------------|--------|---------|----------|--------|------------|------------|------------|--------|---------|
| Horizontal | | | | | | | Vertical | | | | | | |
| Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark | Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | |
| 1535.000 | 52.24 | 54.00 | -1.76 | 62.91 | -10.67 | Average | 1535.000 | 47.74 | 54.00 | -6.26 | 58.41 | -10.67 | Average |
| 1535.000 | 52.91 | 74.00 | -21.09 | 63.58 | -10.67 | Peak | 1535.000 | 50.19 | 74.00 | -23.81 | 60.86 | -10.67 | Peak |
| 1817.000 | 38.26 | 54.00 | -15.74 | 48.08 | -9.82 | Average | 1817.000 | 36.11 | 54.00 | -17.89 | 45.83 | -9.72 | Average |
| 1817.000 | 40.97 | 74.00 | -33.03 | 50.72 | -9.75 | Peak | 1817.000 | 40.83 | 74.00 | -33.17 | 50.58 | -9.75 | Peak |
| 2725.500 | 52.06 | 54.00 | -1.94 | 58.23 | -6.17 | Average | 2725.500 | 50.18 | 54.00 | -3.82 | 56.35 | -6.17 | Average |
| 2725.500 | 53.48 | 74.00 | -20.52 | 59.64 | -6.16 | Peak | 2725.500 | 51.50 | 74.00 | -22.50 | 57.66 | -6.16 | Peak |
| 3634.000 | 39.38 | 54.00 | -14.62 | 42.32 | -2.94 | Average | 3634.000 | 39.28 | 54.00 | -14.72 | 42.22 | -2.94 | Average |
| 3634.000 | 43.39 | 74.00 | -30.61 | 46.33 | -2.94 | Peak | 3634.000 | 44.53 | 74.00 | -29.47 | 47.25 | -2.72 | Peak |
| 4542.500 | 41.92 | 54.00 | -12.08 | 42.28 | -0.36 | Average | 4542.500 | 43.65 | 54.00 | -10.35 | 44.01 | -0.36 | Average |
| 4542.500 | 46.65 | 74.00 | -27.35 | 47.01 | -0.36 | Peak | 4542.500 | 48.05 | 74.00 | -25.95 | 48.39 | -0.34 | Peak |
| 7268.000 | 46.32 | 54.00 | -7.68 | 40.88 | 5.44 | Average | 7268.000 | 49.93 | 54.00 | -4.07 | 44.49 | 5.44 | Average |
| 7268.000 | 51.98 | 74.00 | -22.02 | 46.56 | 5.42 | Peak | 7268.000 | 53.96 | 74.00 | -20.04 | 48.54 | 5.42 | Peak |
| 8176.500 | 48.43 | 54.00 | -5.57 | 42.29 | 6.14 | Average | 8176.500 | 53.46 | 54.00 | -0.54 | 47.32 | 6.14 | Average |
| 8176.500 | 52.89 | 74.00 | -21.11 | 46.74 | 6.15 | Peak | 8176.500 | 56.42 | 74.00 | -17.58 | 50.27 | 6.15 | Peak |

| High CH | | | | | | | | | | | | | |
|------------|--------|------------|------------|------------|--------|---------|----------|--------|------------|------------|------------|--------|---------|
| Horizontal | | | | | | | Vertical | | | | | | |
| Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark | Freq | Level | Limit Line | Over Limit | Read Level | Factor | Remark |
| MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | | MHz | dBuV/m | dBuV/m | dB | dBuV | dB/m | |
| 1535.000 | 52.05 | 54.00 | -1.95 | 62.72 | -10.67 | Average | 1535.000 | 45.88 | 54.00 | -8.12 | 56.55 | -10.67 | Average |
| 1535.000 | 53.23 | 74.00 | -20.77 | 63.90 | -10.67 | Peak | 1535.000 | 47.76 | 74.00 | -26.24 | 58.43 | -10.67 | Peak |
| 1829.800 | 38.73 | 54.00 | -15.27 | 48.35 | -9.62 | Average | 1829.800 | 40.42 | 54.00 | -13.58 | 50.02 | -9.60 | Average |
| 1829.800 | 41.96 | 74.00 | -32.04 | 51.56 | -9.60 | Peak | 1829.800 | 42.69 | 74.00 | -31.31 | 52.31 | -9.62 | Peak |
| 2744.700 | 51.77 | 54.00 | -2.23 | 57.82 | -6.05 | Average | 2744.700 | 47.81 | 54.00 | -6.19 | 53.86 | -6.05 | Average |
| 2744.700 | 52.77 | 74.00 | -21.23 | 58.82 | -6.05 | Peak | 2744.700 | 49.76 | 74.00 | -24.24 | 55.81 | -6.05 | Peak |
| 3659.600 | 41.69 | 54.00 | -12.31 | 44.49 | -2.80 | Average | 3659.600 | 34.34 | 54.00 | -19.66 | 37.16 | -2.82 | Average |
| 3659.600 | 45.64 | 74.00 | -28.36 | 48.46 | -2.82 | Peak | 3659.600 | 42.16 | 74.00 | -31.84 | 44.98 | -2.82 | Peak |
| 4574.500 | 42.92 | 54.00 | -11.08 | 43.14 | -0.22 | Average | 4574.500 | 42.01 | 54.00 | -11.99 | 42.24 | -0.23 | Average |
| 4574.500 | 47.32 | 74.00 | -26.68 | 47.55 | -0.23 | Peak | 4574.500 | 47.98 | 74.00 | -26.02 | 48.21 | -0.23 | Peak |
| 5489.400 | 42.98 | 54.00 | -11.02 | 42.51 | 0.47 | Average | 5489.400 | 40.89 | 54.00 | -13.11 | 40.41 | 0.48 | Average |
| 5489.400 | 48.43 | 74.00 | -25.57 | 47.95 | 0.48 | Peak | 5489.400 | 49.25 | 74.00 | -24.75 | 48.77 | 0.48 | Peak |
| 7319.200 | 46.47 | 54.00 | -7.53 | 40.80 | 5.67 | Average | 6404.300 | 44.84 | 54.00 | -9.16 | 41.59 | 3.25 | Average |
| 7319.200 | 51.36 | 74.00 | -22.64 | 45.66 | 5.70 | Peak | 6404.300 | 49.52 | 74.00 | -24.48 | 46.27 | 3.25 | Peak |
| 8234.100 | 46.57 | 54.00 | -7.43 | 40.49 | 6.08 | Average | 7319.200 | 48.04 | 54.00 | -5.96 | 42.37 | 5.67 | Average |
| 8234.100 | 51.94 | 74.00 | -22.06 | 45.86 | 6.08 | Peak | 7319.200 | 52.53 | 74.00 | -21.47 | 46.86 | 5.67 | Peak |
| | | | | | | | 8234.100 | 52.69 | 54.00 | -1.31 | 46.61 | 6.08 | Average |
| | | | | | | | 8234.100 | 55.50 | 74.00 | -18.50 | 49.42 | 6.08 | Peak |

Above 1G (1 GHz-10 GHz): The worst mode



Note1: Transmit mode

Note2:

Level = Read Level + Factor

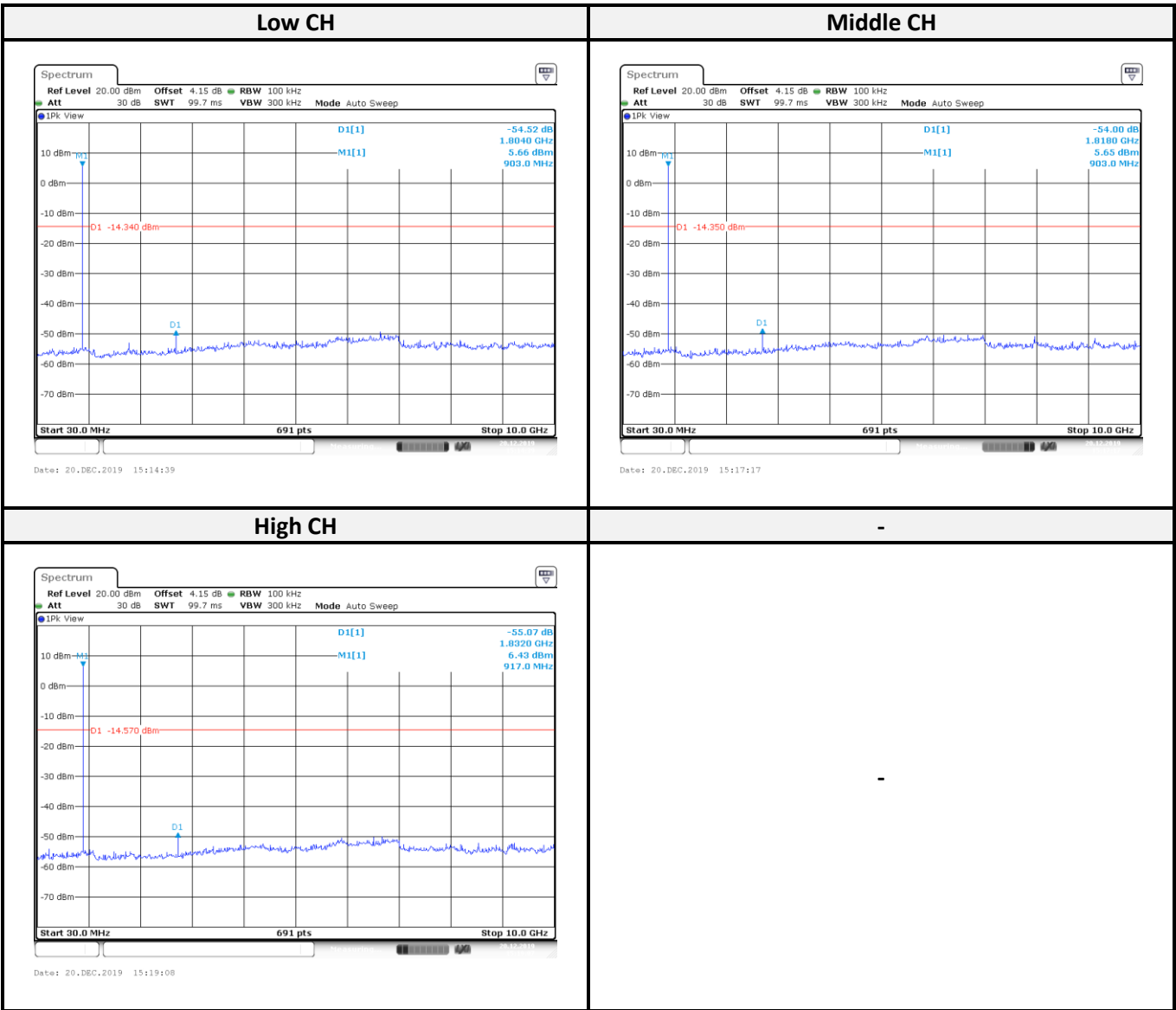
Over Limit = Level – Limit

Correct Factor = Antenna Factor + Cable Loss – Amplifier Gain

Spurious emissions more than 20 dB below the limit were not reported

Conducted Spurious Emissions:

| Channel | Frequency (MHz) | Delta Peak to Band Emission (dBc) | Limit (dBc) | Result |
|------------------------|-----------------|-----------------------------------|-------------|------------|
| 902.3 MHz to 914.9 MHz | | | | |
| Low | 902.3 | 54.52 | ≥ 20 | Compliance |
| Mid | 908.5 | 54.00 | ≥ 20 | Compliance |
| High | 914.9 | 55.07 | ≥ 20 | Compliance |



7 FCC §15.247(a)(1) – 20 dB Emission Bandwidth

7.1 Applicable Standard

According to FCC §15.247(a) (1) (i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

7.2 Test Procedure

- (1) Check the calibration of the measuring instrument using either an internal calibrator or a known signal from an external generator.
- (2) Position the EUT without connection to measurement instrument. Turn on the EUT and connect it to measurement instrument. Then set it to any one convenient frequency within its operating range. Set a reference level on the measuring instrument equal to the highest peak value.
- (3) Measure the frequency difference of two frequencies that were attenuated 20 dB from the reference level. Record the frequency difference as the emission bandwidth.
- (4) Repeat above procedures until all frequencies measured were complete.

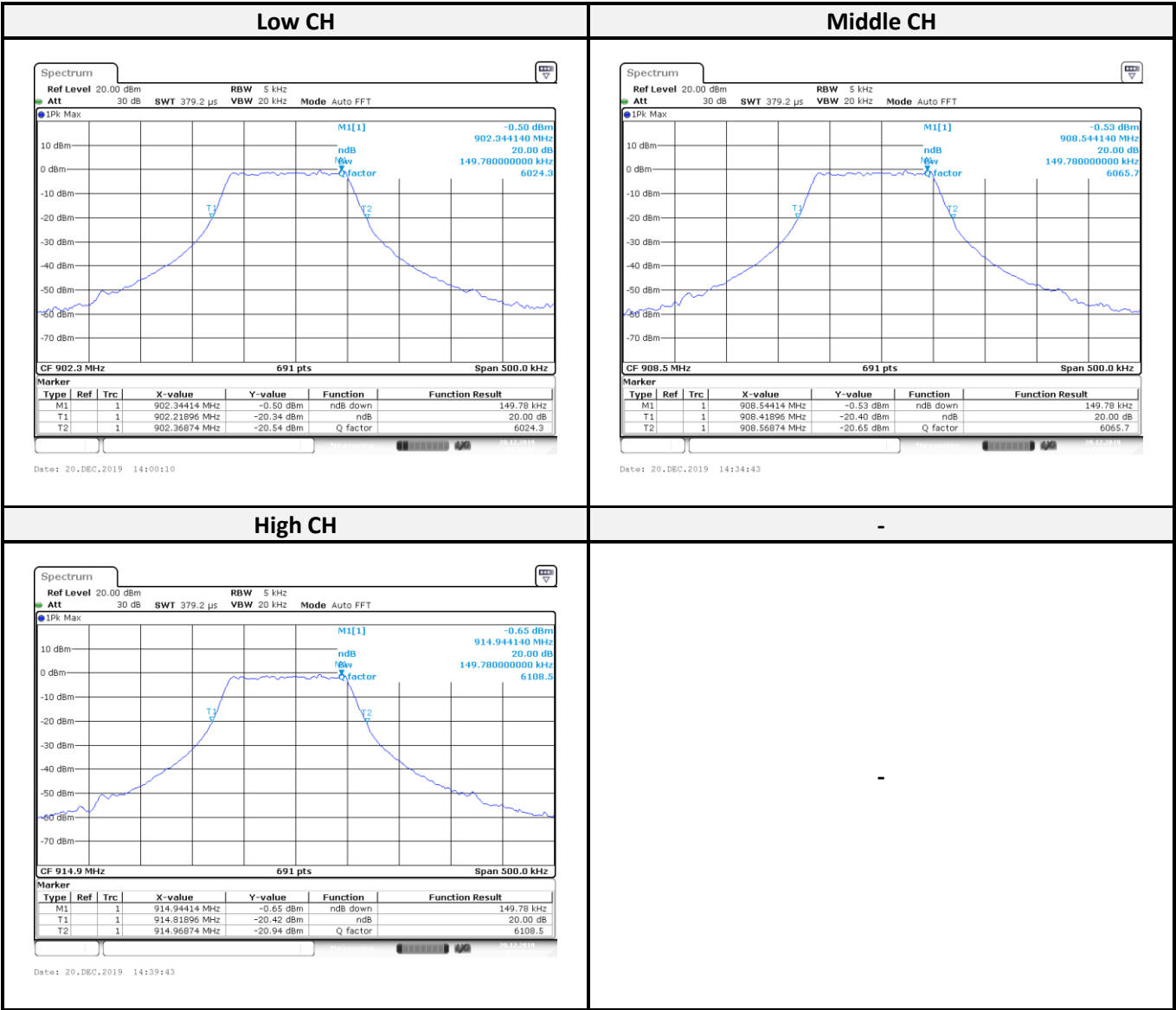
7.3 Test Equipment List and Details

| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-----------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

7.4 Test Results

| Channel | Frequency (MHz) | 20 dB Bandwidth (kHz) | 20 dB Bandwidth Limit (kHz) |
|------------------------|-----------------|-----------------------|-----------------------------|
| 902.3 MHz to 914.9 MHz | | | |
| Low | 902.3 | 149.78 | < 250.00 |
| Middle | 908.5 | 149.78 | < 250.00 |
| High | 914.9 | 149.78 | < 250.00 |



8 FCC §15.247(a)(1) – Channel Separation Test

8.1 Applicable Standard

According to FCC §15.247(a) (1): Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

8.2 Test Procedure

According to ANSI 63.10 7.8.3

- a) Span: Wide enough to capture the peaks of two adjacent channels. b) RBW: Start with the RBW set to approximately 30% of the channel spacing; adjust as necessary to best identify the center of each individual channel.
- c) Video (or average) bandwidth (VBW) \geq RBW. d) Sweep: Auto. e) Detector function: Peak. f) Trace: Max hold.
- g) Allow the trace to stabilize

8.3 Test Equipment List and Details

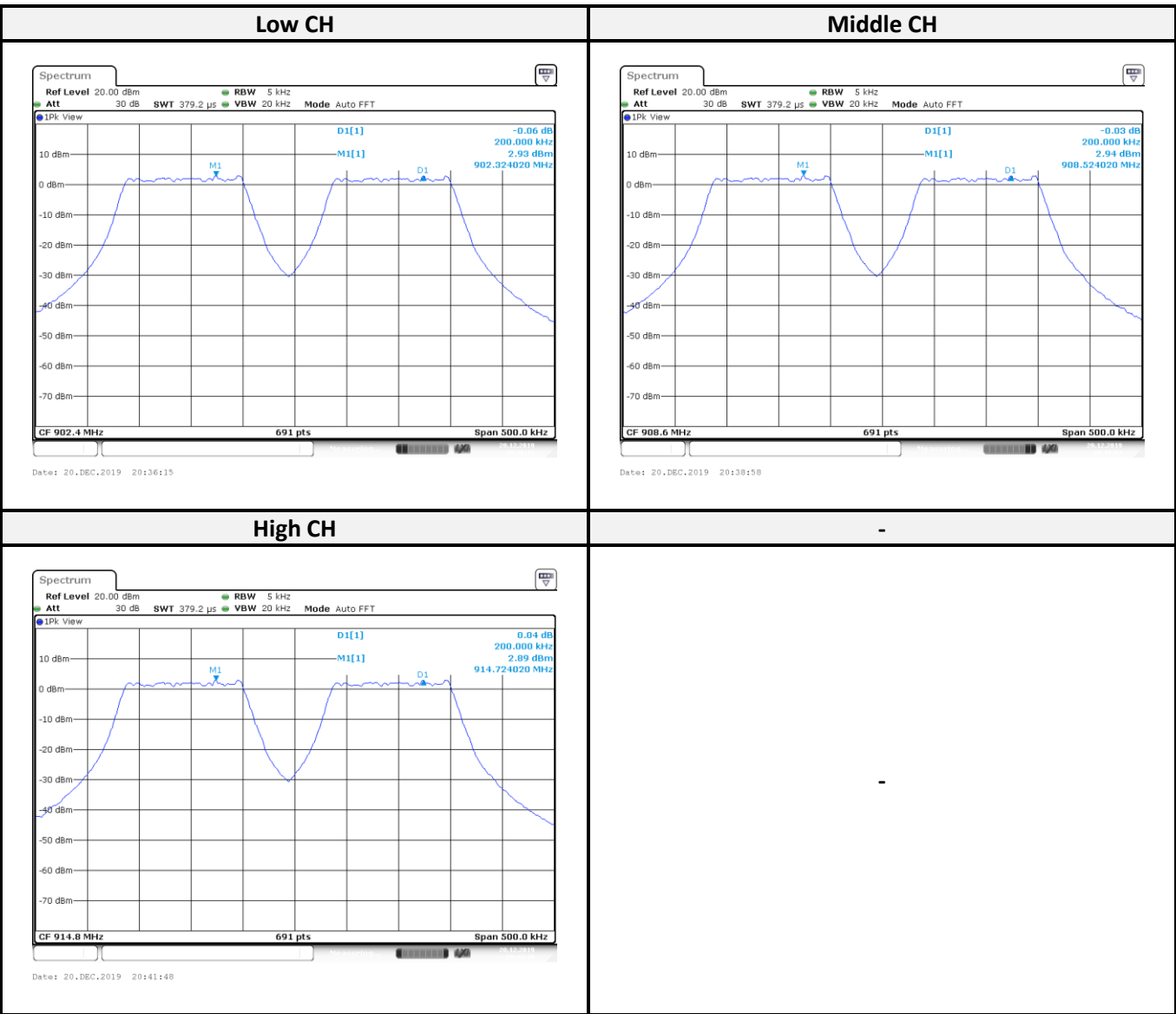
| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-----------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

8.4 Test Results

| Channel | Frequency (MHz) | Channel Separation (kHz) | Limit (kHz) | Result |
|---------|-----------------|--------------------------|-------------|------------|
| Low | 902.3 | 200 | >149.78 | Compliance |
| Middle | 908.5 | 200 | >149.78 | Compliance |
| High | 914.9 | 200 | >149.78 | Compliance |

*Limit > 20dB Bandwidth.



9 FCC §15.247(a)(1)(iii) – Time of Occupancy (Dwell Time)

9.1 Applicable Standard

According to FCC §15.247(a) (1) (i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

9.2 Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel

RBW \leq channel spacing and where possible RBW should be set $\gg 1/T$, where T is the expected dwell time per channel

Sweep = as necessary to capture the entire dwell time per hopping channel Detector function = peak

Trace = max hold

Use the marker-delta function to determine the transmit time per hop. If this value varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation in transmit time.

Repeat the measurement using a longer sweep time to determine the number of hops over the period specified in the requirements. The sweep time shall be equal to, or less than, the period specified in the requirements.

Determine the number of hops over the sweep time and calculate the total number of hops in the period specified in the requirements, using the following equation:

(Number of hops in the period specified in the requirements) = (number of hops on spectrum analyzer) x (period specified in the requirements / analyzer sweep time)

The average time of occupancy is calculated from the transmit time per hop multiplied by the number of hops in the period specified. If the number of hops in a specific time varies with different modes of operation (data rate, modulation format, number of hopping channels, etc.), then repeat this test for each variation.

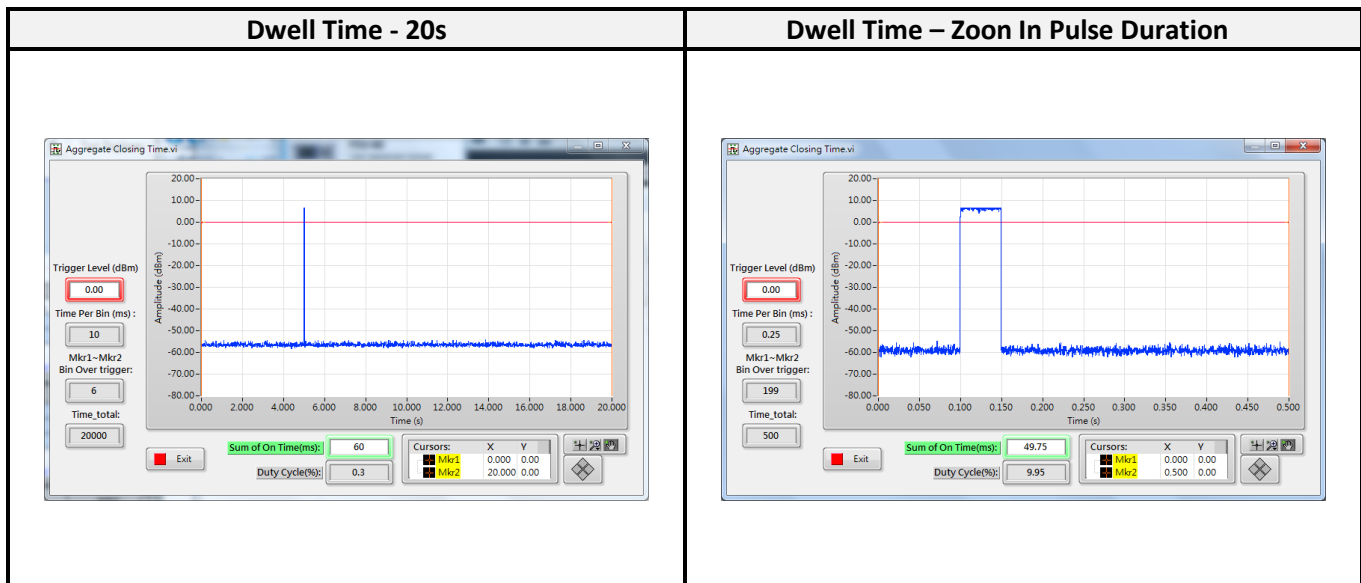
9.3 Test Equipment List and Details

| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-----------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

9.4 Test Results

| Frequency (MHz) | Pulse Duration (ms) | Number of Pulses | Measure Time (s) | Dwell Time in (s) | Dwell Time (s) | Limits (s) | Test Result |
|------------------------|---------------------|------------------|------------------|-------------------|----------------|------------|-------------|
| 902.3 MHz to 914.9 MHz | 49.7500 | 1 | 20 | 20 | 0.0498 | 0.4000 | Complies |



10 FCC §15.247(a)(1)(iii) –Quantity of hopping channel Test

10.1 Applicable Standard

According to FCC §15.247(a) (1) (i) For frequency hopping systems operating in the 902-928 MHz band: if the 20 dB bandwidth of the hopping channel is less than 250 kHz, the system shall use at least 50 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 20 second period; if the 20 dB bandwidth of the hopping channel is 250 kHz or greater, the system shall use at least 25 hopping frequencies and the average time of occupancy on any frequency shall not be greater than 0.4 seconds within a 10 second period. The maximum allowed 20 dB bandwidth of the hopping channel is 500 kHz.

10.2 Test Procedure

Span = the frequency band of operation.

RBW < 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller VBW ≥ RBW.

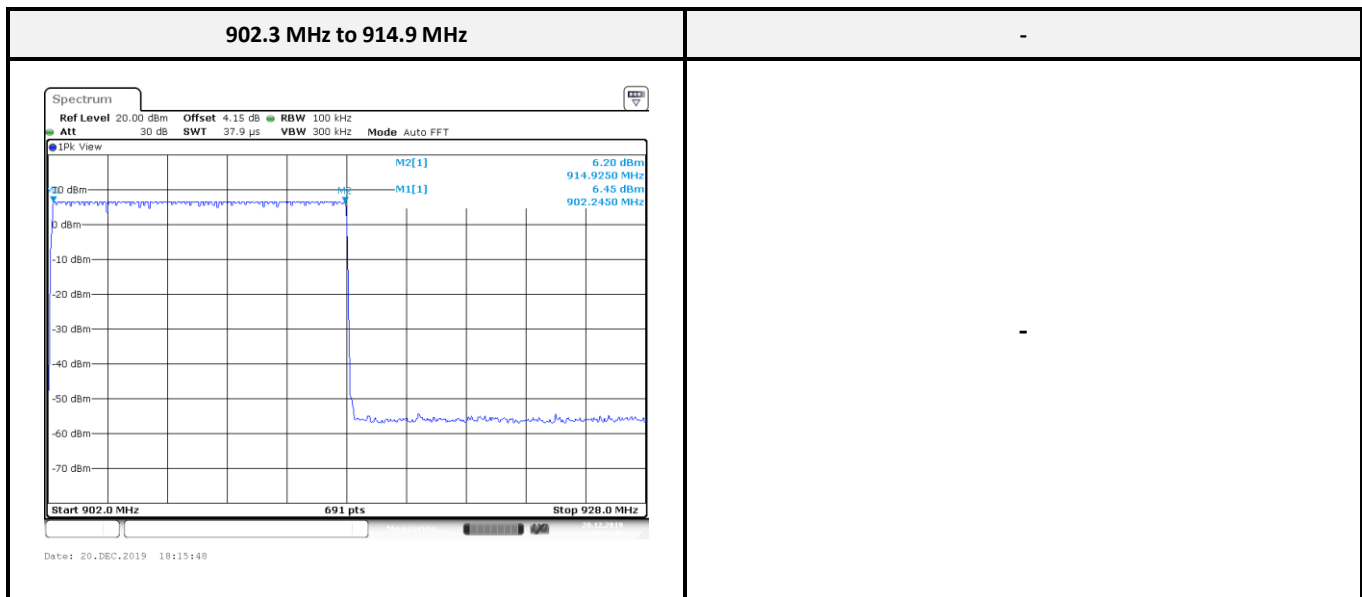
Sweep = auto. Detector function = peak Trace = max hold.

10.3 Test Equipment List and Details

| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-----------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

| Mode | Frequency Range (MHz) | Number of Hopping Channel | Limit (CH) | Result |
|------------------------|------------------------|---------------------------|------------|------------|
| 902.3 MHz to 914.9 MHz | 902.3 MHz to 914.9 MHz | 64 | >50 | Compliance |



Channel Separate = 200 KHz

$$914.9 \text{ MHz} - 902.3 \text{ MHz} = 12.6 \text{ MHz}, (12.6 \text{ MHz} / 0.2 \text{ MHz}) + 1 = 64\text{CH}$$

11 FCC §15.247(b)(1) – Maximum Output Power

11.1 Applicable Standard

According to FCC §15.247(b) (2) For frequency hopping systems operating in the 902-928 MHz band: 1 watt for systems employing at least 50 hopping channels; and, 0.25 watts for systems employing less than 50 hopping channels, but at least 25 hopping channels, as permitted under paragraph (a)(1)(i) of this section.

11.2 Test Procedure

Place the EUT on a bench and set it in transmitting mode.

Remove the antenna from the EUT and then connect a low loss RF cable from the antenna port to Power sensor.

11.3 Test Equipment List and Details

| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Power Sensor | Agilent | U2021XA | MY54250014 | 2019/03/06 | 2020/03/05 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

11.4 Test Results

| Channel | Frequency (MHz) | Maximum Peak Output Power (dBm) | Maximum Peak Output Power (W) | Limit (dBm) | Result |
|------------------------|-----------------|---------------------------------|-------------------------------|-------------|------------|
| 902.3 MHz to 914.9 MHz | | | | | |
| Low | 902.3 | 6.07 | 0.0040 | 30 | Compliance |
| Middle | 908.5 | 6.12 | 0.0041 | 30 | Compliance |
| High | 914.9 | 6.98 | 0.0050 | 30 | Compliance |

12 FCC §15.247(d) – 100 kHz Bandwidth of Frequency Band Edge

12.1 Applicable Standard

According to FCC §15.247(d), in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emissions limits specified in §15.209(a) see §15.205(c)

12.2 Test Procedure

Span = wide enough to capture the peak level of the emission operating on the channel closest to the band edge, as well as any modulation products which fall outside of the authorized band of operation.

RBW = 100 kHz VBW = 300 kHz.

Sweep = coupled. Detector function = peak Trace = max hold.

12.3 Test Equipment List and Details

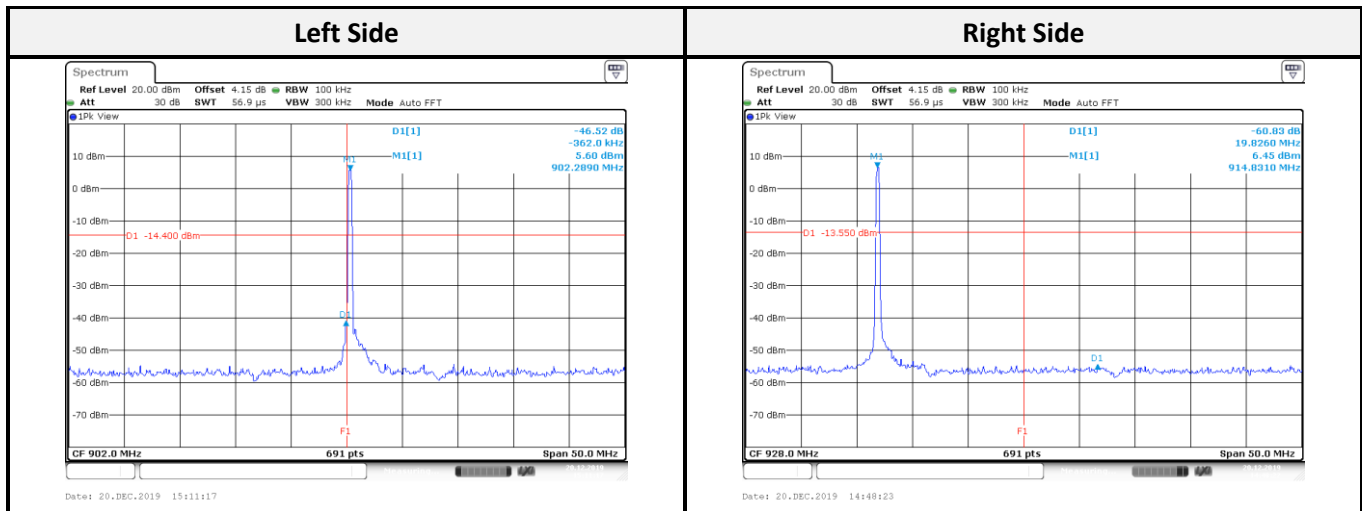
| Description | Manufacture | Model | Serial No. | Cal. Date. | Cal. Due. |
|-----------------------|-----------------|---------|------------------|------------|------------|
| Conducted Room(TH-02) | | | | | |
| Signal Analyzer 40GHZ | Rohde & Schwarz | FSV40-N | 102248 | 2019/09/11 | 2020/09/10 |
| Cable | MTJ | MT40S | 620620-MT40S-100 | 2018/12/28 | 2019/12/27 |

***Statement of Traceability:** The testing equipment's listed above have finished the calibration by Electronics Testing Center, Taiwan (ETC) or other laboratories which were accredited by TAF or equivalent organizations. The calibration result could be traceable to the International System of Units (SI).

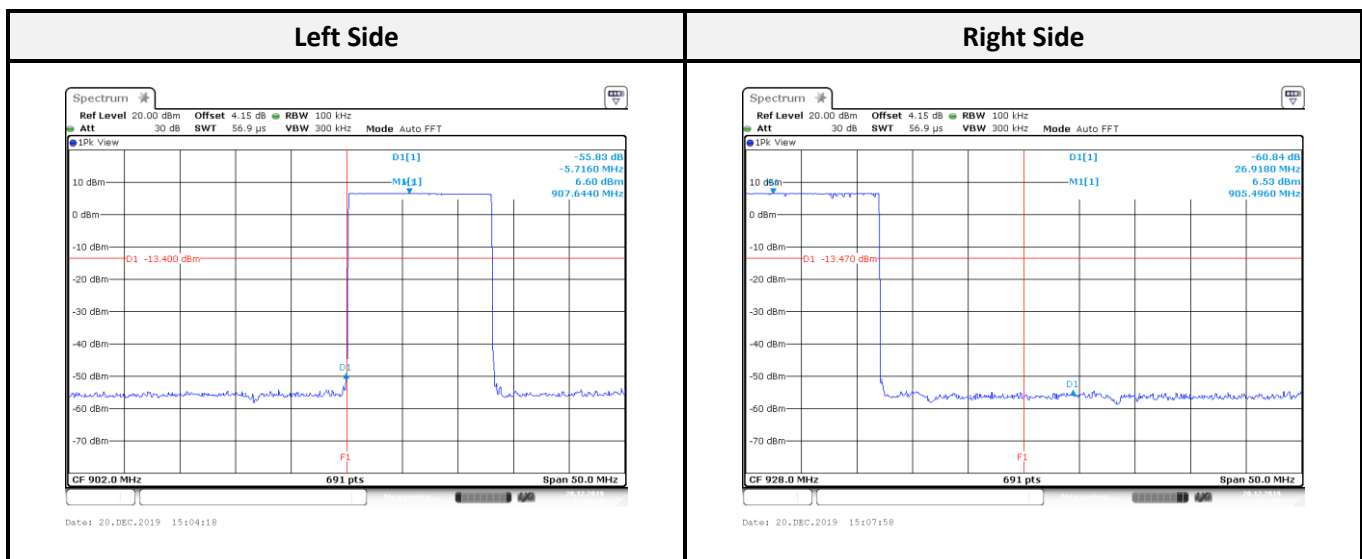
12.4 Test Results

| Channel | Frequency (MHz) | Delta Peak to Band Emission (dBc) | Limit (dBc) | Result |
|----------------------------------|-----------------|-----------------------------------|-------------|------------|
| 902.3 MHz to 914.9 MHz | | | | |
| Low | 902.3 | 46.52 | ≥ 20 | Compliance |
| High | 914.9 | 60.83 | ≥ 20 | Compliance |
| 902.3 MHz to 914.9 MHz (Hopping) | | | | |
| Low | 902.3 | 55.83 | ≥ 20 | Compliance |
| High | 914.9 | 60.84 | ≥ 20 | Compliance |

902.3 MHz to 914.9 MHz:



902.3 MHz to 914.9 MHz Hopping:



----- END OF REPORT -----