



FCC PART 15.237

TEST REPORT

For

Congress Network Corporation

7235 NW 19th CT, Hollywood, Florida 33024, United States

FCC ID: 2ABY4TP600

| | |
|---|--|
| Report Type: Original Report | Product Type: Portable FM Transmitter with charger |
| Report Number: | RSZ180116002-00A |
| Report Date: | 2018-03-16 |
| Reviewed By: | Rocky Kang <i>Rocky Kang</i> |
| Prepared By: | RF Engineer |
| Prepared By: Bay Area Compliance Laboratories Corp. (Shenzhen) 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China Tel: +86-755-33320018 Fax: +86-755-33320008 www.baclcorp.com.cn | |

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TABLE OF CONTENTS

| | |
|--|-----------|
| GENERAL INFORMATION..... | 3 |
| PRODUCT DESCRIPTION FOR EQUIPMENT UNDER TEST (EUT)..... | 3 |
| OBJECTIVE..... | 3 |
| RELATED SUBMITTAL(S)/GRANT(S)..... | 3 |
| TEST METHODOLOGY..... | 3 |
| MEASUREMENT UNCERTAINTY..... | 4 |
| TEST FACILITY..... | 4 |
| SYSTEM TEST CONFIGURATION..... | 5 |
| DESCRIPTION OF TEST CONFIGURATION..... | 5 |
| EUT EXERCISE SOFTWARE..... | 5 |
| SPECIAL ACCESSORIES..... | 5 |
| EQUIPMENT MODIFICATIONS..... | 5 |
| SUPPORT EQUIPMENT LIST AND DETAILS..... | 5 |
| EXTERNAL I/O CABLE..... | 5 |
| BLOCK DIAGRAM OF TEST SETUP..... | 6 |
| SUMMARY OF TEST RESULTS..... | 7 |
| TEST EQUIPMENT LIST..... | 8 |
| FCC§15.203 - ANTENNA REQUIREMENT..... | 9 |
| APPLICABLE STANDARD..... | 9 |
| ANTENNA CONNECTOR CONSTRUCTION..... | 9 |
| FCC §15.207– AC LINE CONDUCTED EMISSIONS..... | 10 |
| APPLICABLE STANDARD..... | 10 |
| EUT SETUP..... | 10 |
| EMI TEST RECEIVER SETUP..... | 10 |
| TEST PROCEDURE..... | 10 |
| CORRECTED FACTOR & MARGIN CALCULATION..... | 11 |
| TEST RESULTS SUMMARY..... | 11 |
| TEST DATA..... | 11 |
| FCC §15.209 & §15.237 (c) - SPURIOUS EMISSIONS..... | 14 |
| APPLICABLE STANDARD..... | 14 |
| EUT SETUP..... | 14 |
| EMI TEST RECEIVER & SPECTRUM ANALYZER SETUP..... | 14 |
| TEST PROCEDURE..... | 15 |
| CORRECTED AMPLITUDE & MARGIN CALCULATION..... | 15 |
| TEST RESULTS SUMMARY..... | 15 |
| TEST DATA..... | 15 |
| FCC §15.237(b) – 20 dB EMISSION BANDWIDTH..... | 21 |
| APPLICABLE STANDARD..... | 21 |
| TEST PROCEDURE..... | 21 |
| TEST DATA..... | 21 |

GENERAL INFORMATION

Product Description for Equipment under Test (EUT)

The *Congress Network Corporation's* product, model number: *TP-600 (FCC ID: 2ABY4TP600)* or the "EUT" in this report was a *Portable FM Transmitter with charger*, which was measured approximately: 10.4 cm (L) x 7.1 cm (W) x 2.2 cm (H), rated with input voltage: DC 3.0V from battery or DC 5.0V charging from adapter.

Adapter Information:

Model: CW0500500US

Input: AC 100-240V, 50/60Hz, 0.3A

Output: DC 5.0V, 500m A

**All measurement and test data in this report was gathered from production sample serial number: 1800066 (Assigned by BACL). The EUT supplied by the applicant was received on 2018-01-16.*

Objective

This report is prepared on behalf of *Congress Network Corporation* in accordance with Part 2-Subpart J, Part 15-Subparts A and C of the Federal Communication Commission's rules.

The tests were performed in order to determine compliance with FCC Part 15, Subpart C, and section 15.203, 15.205, 15.209, 15.237 rules.

Related Submittal(s)/Grant(s)

No Related Submittal(s)/Grant(s).

Test Methodology

All measurements contained in this report were conducted with ANSI C63.10-2013, American National Standard of Procedures for Compliance Testing of Unlicensed Wireless Devices.

All emissions measurement was performed at Bay Area Compliance Laboratories Corp. (Shenzhen). The radiated testing was performed at an antenna-to-EUT distance of 3 meters.

Measurement Uncertainty

| Parameter | uncertainty |
|----------------------------|-------------|
| Occupied Channel Bandwidth | ±5% |
| All emissions, radiated | ±4.88dB |
| Temperature | ±3°C |
| Humidity | ±6% |
| Supply voltages | ±0.4% |

Test Facility

The Test site used by Bay Area Compliance Laboratories Corp. (Shenzhen) to collect test data is located on the 6/F., West Wing, Third Phase of Wanli Industrial Building, Shihua Road, Futian Free Trade Zone, Shenzhen, Guangdong, China.

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, FCC Registration No. : 382179, the FCC Designation No. : CN5001.

The test site has been registered with ISED Canada under ISED Canada Registration Number 3062B.

SYSTEM TEST CONFIGURATION

Description of Test Configuration

The system was configured for testing in an engineering mode.

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|-----------------|---------|-----------------|---------|-----------------|
| 1 | 72.1 | 7 | 72.7 | 13 | 75.5 |
| 2 | 72.2 | 8 | 72.8 | 14 | 75.6 |
| 3 | 72.3 | 9 | 72.9 | 15 | 75.7 |
| 4 | 72.4 | 10 | 74.7 | 16 | 75.8 |
| 5 | 72.5 | 11 | 75.3 | 17 | 75.9 |
| 6 | 72.6 | 12 | 75.4 | 18 | / |

EUT Exercise Software

No exercise software was made to the EUT tested.

Special Accessories

No special accessory.

Equipment Modifications

No modification was made to the EUT tested.

Support Equipment List and Details

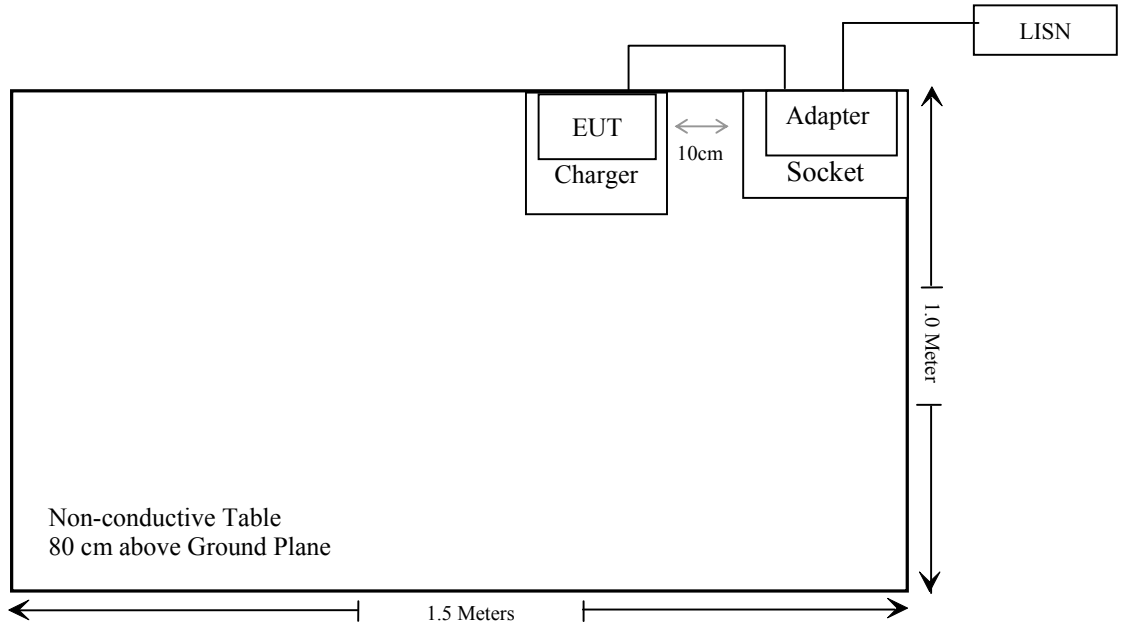
| Manufacturer | Description | Model | Serial Number |
|--------------|-------------|-------|---------------|
| / | / | / | / |

External I/O Cable

| Cable Description | Length (m) | From Port | To |
|---------------------------------------|------------|-----------|---------|
| Un-shielded Detachable DC Power Cable | 2.0 | Adapter | Charger |

Block Diagram of Test Setup

Conducted Emission:



SUMMARY OF TEST RESULTS

| FCC Rules | Description of Test | Result |
|--------------------|--|---------------|
| §15.203 | Antenna Requirement | Compliance |
| §15.207 | AC Line Conducted Emissions | Compliance |
| §15.237(c) | Field Strength of the Fundamental Signal | Compliance |
| §15.209,§15.237(c) | Spurious Emissions | Compliance |
| §15.237 (b) | 20 dB Emission Bandwidth | Compliance |

TEST EQUIPMENT LIST

| Manufacturer | Description | Model | Serial Number | Calibration Date | Calibration Due Date |
|---------------------------------|--------------------------|-----------------------|------------------------|------------------|----------------------|
| Conducted Emissions Test | | | | | |
| Rohde & Schwarz | EMI Test Receiver | ESCS30 | 100176 | 2017-08-04 | 2018-08-04 |
| Rohde & Schwarz | LISN | ENV216 | 3560.6650.12-101613-Yb | 2017-12-21 | 2018-12-21 |
| Rohde & Schwarz | Transient Limiter | ESH3Z2 | DE25985 | 2017-11-29 | 2018-05-21 |
| Rohde & Schwarz | CE Test software | EMC 32 | V8.53.0 | NCR | NCR |
| N/A | Conducted Emission Cable | N/A | UF A210B-1-0720-504504 | 2017-11-12 | 2018-05-12 |
| Radiated Emission Test | | | | | |
| HP | Amplifier | HP8447E | 1937A01046 | 2017-11-19 | 2018-05-21 |
| Sunol Sciences | Broadband Antenna | JB1 | A040904-2 | 2017-12-17 | 2020-12-16 |
| Rohde & Schwarz | EMI Test Receiver | ESCI | 101120 | 2018-01-11 | 2019-01-11 |
| Rohde & Schwarz | Auto test software | EMC 32 | V9.10 | NCR | NCR |
| Ducommun technologies | RF Cable | UFA210A-1-4724-30050U | MFR64369 223410-001 | 2017-11-19 | 2018-05-21 |
| RF Conducted Test | | | | | |
| WEINSCHL | 10dB Attenuator | 5324 | AU 3842 | 2017-11-22 | 2018-05-23 |
| Rohde & Schwarz | SPECTRUM ANALYZER | FSU26 | 200120 | 2017-12-24 | 2018-12-24 |
| Ducommun technologies | RF Cable | RG-214 | 3 | 2017-11-22 | 2018-05-22 |

* **Statement of Traceability:** Bay Area Compliance Laboratories Corp. (Shenzhen) attests that all calibrations have been performed in accordance to requirements that traceable to National Primary Standards and International System of Units (SI).

FCC§15.203 - ANTENNA REQUIREMENT

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. The structure and application of the EUT were analyzed to determine compliance with section §15.203 of the rules. §15.203 state that the subject device must meet the following criteria:

- a. Antenna must be permanently attached to the unit.
- b. Antenna must use a unique type of connector to attach to the EUT.

Unit must be professionally installed, and installer shall be responsible for verifying that the correct antenna is employed with the unit.

Antenna Connector Construction

The EUT has an external antenna arrangement, which with a non-standard jack and the antenna gain is 0 dBi, fulfill the requirement of this section. Please refer to the EUT photos.

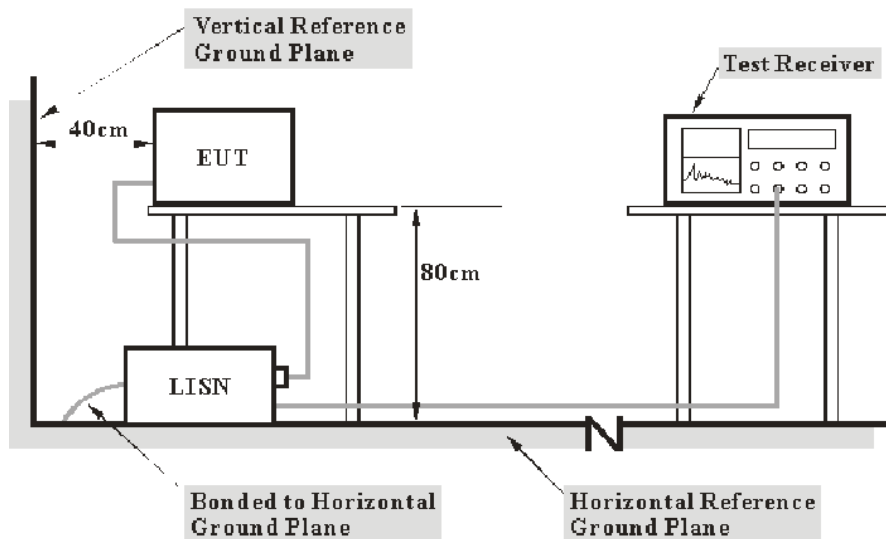
Result: Compliance.

FCC §15.207– AC LINE CONDUCTED EMISSIONS

Applicable Standard

FCC §15.207

EUT Setup



- Note: 1. Support units were connected to second LISN.
 2. Both of LISNs (AMN) 80 cm from EUT and at the least 80 cm from other units and other metal planes support units.

The measurement procedure of EUT setup is according with ANSI C63.10-2013. The related limit was specified in FCC Part 15.207.

The spacing between the peripherals was 10 cm.

EMI Test Receiver Setup

The EMI test receiver was set to investigate the spectrum from 150 kHz to 30 MHz.

During the conducted emission test, the EMI test receiver was set with the following configurations:

| Frequency Range | IF B/W |
|------------------|--------|
| 150 kHz – 30 MHz | 9 kHz |

Test Procedure

During the conducted emission test, the adapter was connected to the outlet of the LISN.

Maximizing procedure was performed on the six (6) highest emissions of the EUT.

All final data was recorded in the Quasi-peak and average detection mode.

Corrected Factor & Margin Calculation

The Corrected factor is calculated by adding LISN VDF (Voltage Division Factor), Cable Loss and Transient Limiter Attenuation. The basic equation is as follows:

$$\text{Correction Factor} = \text{LISN VDF} + \text{Cable Loss} + \text{Transient Limiter Attenuation}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7 dB means the emission is 7 dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Part 15.207,

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(Lm)} \leq L_{lim} + U_{cispr}$$

In BACL, $U_{(Lm)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

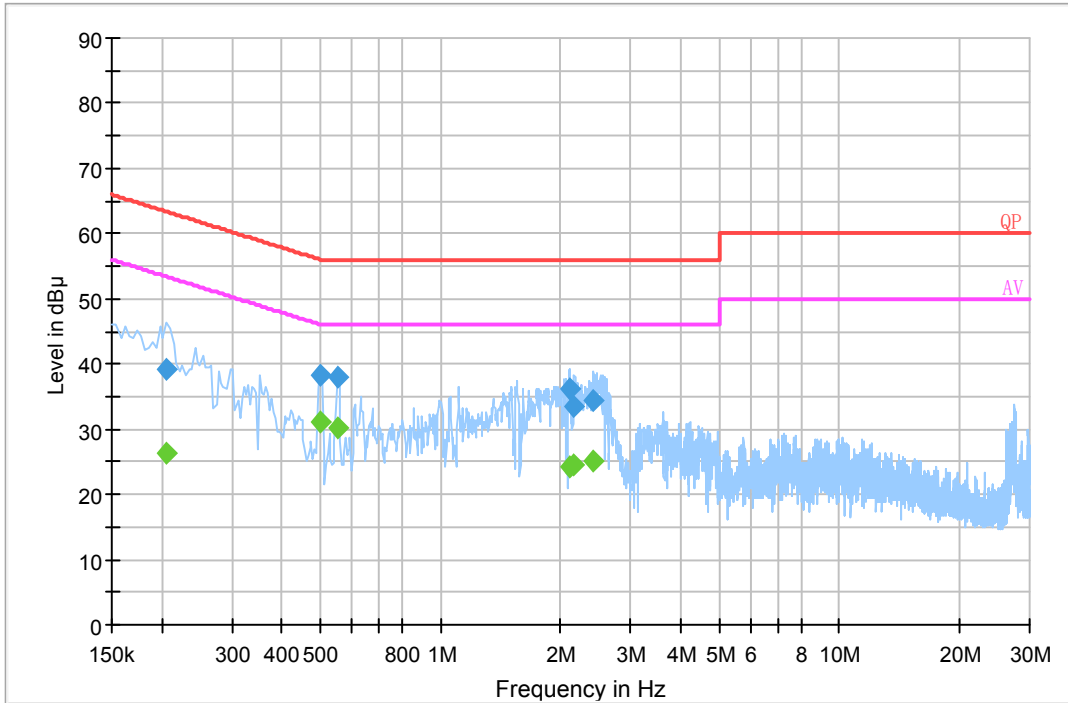
Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 52 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Hill He on 2018-02-28.

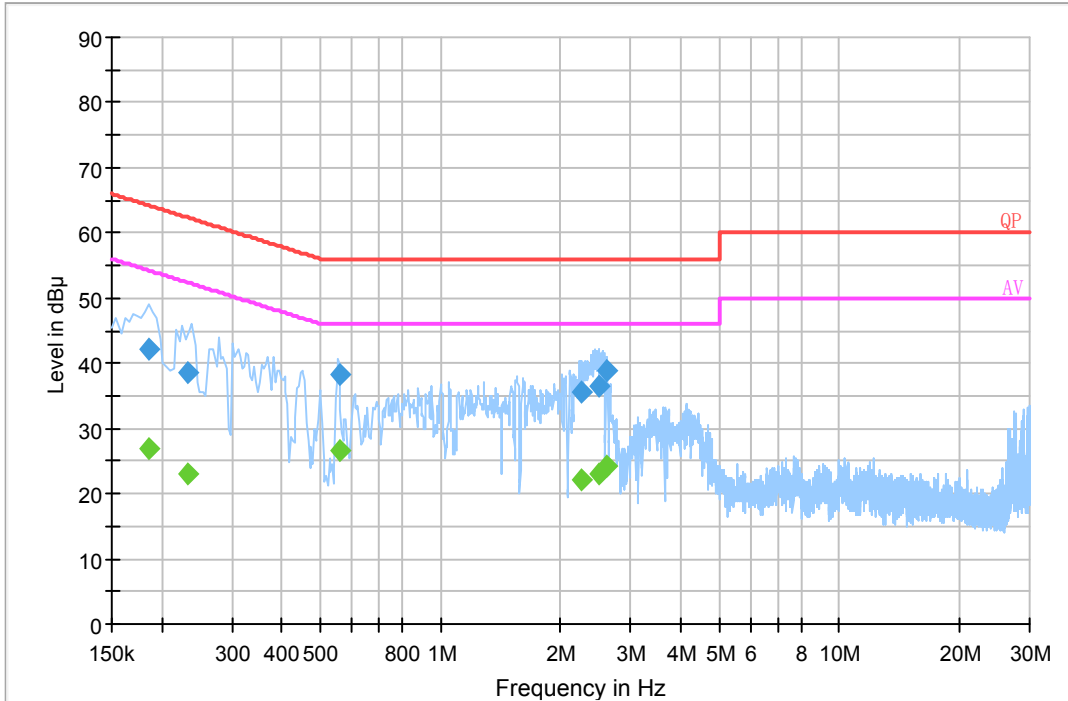
EUT operation mode: Transmitting & Charging

AC 120V/60 Hz, Line



| Frequency (MHz) | Corrected Amplitude (dBµV) | Correction Factor (dB) | Limit (dBµV) | Margin (dB) | Detector (PK/Ave./QP) |
|-----------------|----------------------------|------------------------|--------------|-------------|-----------------------|
| 0.205500 | 39.2 | 20.2 | 63.4 | 24.2 | QP |
| 0.498530 | 38.4 | 20.2 | 56.0 | 17.6 | QP |
| 0.553690 | 38.0 | 20.1 | 56.0 | 18.0 | QP |
| 2.106530 | 36.2 | 20.1 | 56.0 | 19.8 | QP |
| 2.161510 | 33.5 | 20.1 | 56.0 | 22.5 | QP |
| 2.401610 | 34.4 | 20.1 | 56.0 | 21.6 | QP |
| 0.205500 | 26.5 | 20.2 | 53.4 | 26.9 | Ave. |
| 0.498530 | 31.1 | 20.2 | 46.0 | 14.9 | Ave. |
| 0.553690 | 30.3 | 20.1 | 46.0 | 15.7 | Ave. |
| 2.106530 | 24.3 | 20.1 | 46.0 | 21.7 | Ave. |
| 2.161510 | 24.5 | 20.1 | 46.0 | 21.5 | Ave. |
| 2.401610 | 25.0 | 20.1 | 46.0 | 21.0 | Ave. |

AC 120V/60 Hz, Neutral



| Frequency (MHz) | Corrected Amplitude (dBμV) | Correction Factor (dB) | Limit (dBμV) | Margin (dB) | Detector (PK/Ave./QP) |
|-----------------|----------------------------|------------------------|--------------|-------------|-----------------------|
| 0.185500 | 42.1 | 20.2 | 64.2 | 22.1 | QP |
| 0.233500 | 38.5 | 20.2 | 62.3 | 23.8 | QP |
| 0.557690 | 38.2 | 20.1 | 56.0 | 17.8 | QP |
| 2.252190 | 35.7 | 20.1 | 56.0 | 20.3 | QP |
| 2.488470 | 36.4 | 20.1 | 56.0 | 19.6 | QP |
| 2.618610 | 38.8 | 20.1 | 56.0 | 17.2 | QP |
| 0.185500 | 26.9 | 20.2 | 54.2 | 27.3 | Ave. |
| 0.233500 | 23.0 | 20.2 | 52.3 | 29.3 | Ave. |
| 0.557690 | 26.6 | 20.1 | 46.0 | 19.4 | Ave. |
| 2.252190 | 22.3 | 20.1 | 46.0 | 23.7 | Ave. |
| 2.488470 | 23.1 | 20.1 | 46.0 | 22.9 | Ave. |
| 2.618610 | 24.2 | 20.1 | 46.0 | 21.8 | Ave. |

Note:

- 1) Correction Factor = LISN VDF (Voltage Division Factor) + Cable Loss + Transient Limiter Attenuation
- 2) Corrected Amplitude = Reading + Correction Factor
- 3) Margin = Limit – Corrected Amplitude

FCC §15.209 & §15.237 (c) - SPURIOUS EMISSIONS

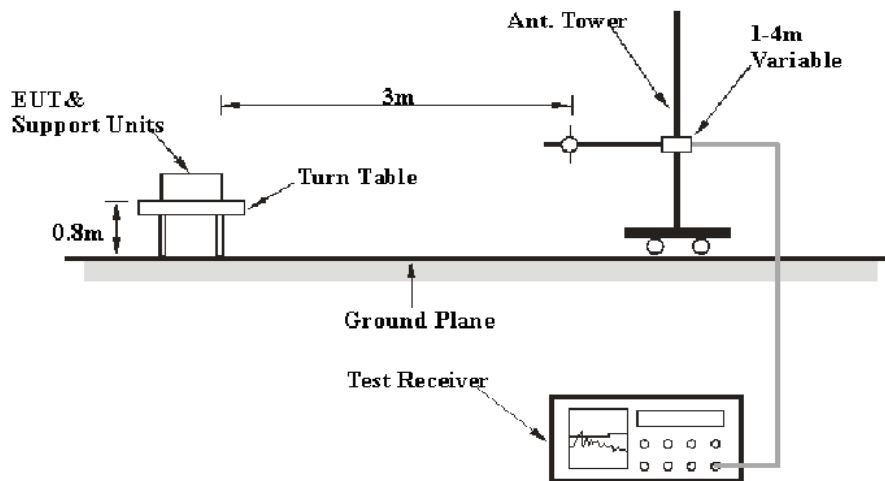
Applicable Standard

FCC §15.209 & §15.237 (c)

(c) The field strength within the permitted 200 kHz band shall not exceed 80 millivolts/meter at 3 meters. The field strength of any emissions radiated on any frequency outside of the specified 200 kHz band shall not exceed the general radiated emissions limits specified in §15.209. The emission limits in this paragraph are based on measurement instrumentation employing an average detector. The provisions in §15.35 for limiting peak emissions apply.

EUT Setup

Below 1 GHz:



The radiated emission tests were performed in the 3 meters test site, using the setup accordance with the ANSI C63.10-2013. The specification used was the FCC 15.209, and FCC 15.237 limits.

EMI Test Receiver & Spectrum Analyzer Setup

The system was investigated from 30 MHz to 1 GHz.

During the radiated emission test, the EMI test receiver & Spectrum Analyzer Setup were set with the following configurations:

| Frequency Range | RBW | Video B/W | IF B/W | Measurement |
|--------------------------------|---------|-----------|---------|-------------|
| Fundamental | 100 kHz | 300 kHz | 120 kHz | PK |
| | 100 kHz | 300 kHz | 120 kHz | AV |
| Spurious Emission (30MHz-1GHz) | 100 kHz | 300 kHz | 120 kHz | QP |

Test Procedure

Maximizing procedure was performed on the highest emissions to ensure that the EUT complied with all installation combinations.

Data was recorded in Quasi-peak detection mode for frequency range of 30 MHz-1 GHz.

Corrected Amplitude & Margin Calculation

The Corrected Amplitude is calculated by adding the Antenna Factor and Cable Loss, and subtracting the Amplifier Gain from the Meter Reading. The basic equation is as follows:

$$\text{Corrected Amplitude} = \text{Meter Reading} + \text{Antenna Factor} + \text{Cable Loss} - \text{Amplifier Gain}$$

The “**Margin**” column of the following data tables indicates the degree of compliance with the applicable limit. For example, a margin of 7dB means the emission is 7dB below the limit. The equation for margin calculation is as follows:

$$\text{Margin} = \text{Limit} - \text{Corrected Amplitude}$$

Test Results Summary

According to the recorded data in following table, the EUT complied with the FCC Title 47, Part 15, Subpart C, section 15.209 and 15.237.

Refer to CISPR16-4-2:2011 and CISPR 16-4-1:2009, the measured level complies with the limit if

$$L_m + U_{(L_m)} \leq L_{lim} + U_{cispr}$$

In BAEL, $U_{(L_m)}$ is less than U_{cispr} , if L_m is less than L_{lim} , it implies that the EUT complies with the limit.

Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 50 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Hill He on 2018-03-16.

EUT operation mode: Transmitting

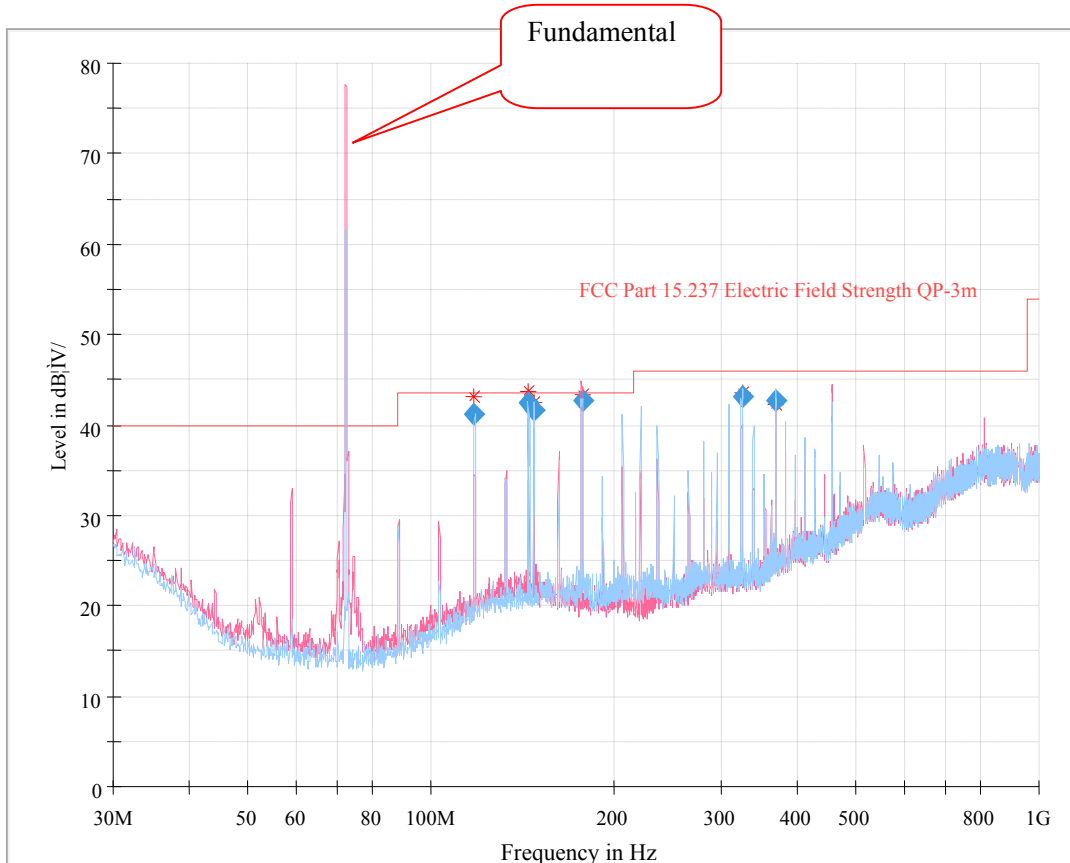
Peak value:

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 72.5 | 89.83 | 101 | H | 356 | -11.8 | 78.03 | 118.06 | 40.03 |
| 72.5 | 89.48 | 103 | V | 330 | -11.8 | 77.68 | 118.06 | 40.38 |
| 74.7 | 89.66 | 190 | H | 206 | -11.7 | 77.96 | 118.06 | 40.10 |
| 74.7 | 90.23 | 202 | V | 208 | -11.7 | 78.53 | 118.06 | 39.53 |
| 75.6 | 90.53 | 100 | H | 196 | -11.6 | 78.93 | 118.06 | 39.13 |
| 75.6 | 90.66 | 100 | V | 98 | -11.6 | 79.06 | 118.06 | 39.00 |

Average value:

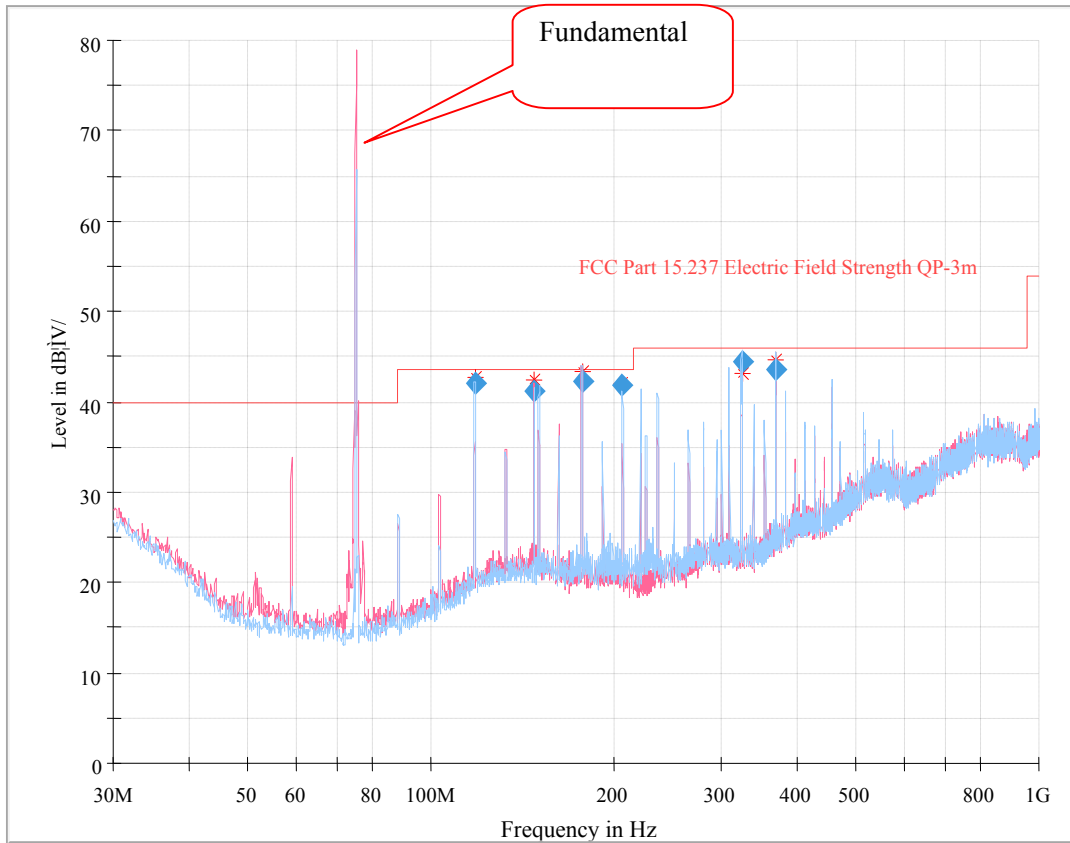
| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 72.5 | 89.36 | 105 | H | 259 | -11.8 | 77.56 | 98.06 | 20.50 |
| 72.5 | 88.57 | 109 | V | 98 | -11.8 | 76.77 | 98.06 | 21.29 |
| 74.7 | 87.86 | 255 | H | 26 | -11.7 | 76.16 | 98.06 | 21.90 |
| 74.7 | 88.71 | 239 | V | 106 | -11.7 | 77.01 | 98.06 | 21.05 |
| 75.6 | 88.58 | 310 | H | 113 | -11.6 | 76.98 | 98.06 | 21.08 |
| 75.6 | 89.11 | 103 | V | 305 | -11.6 | 77.51 | 98.06 | 20.55 |

72.5 MHz:



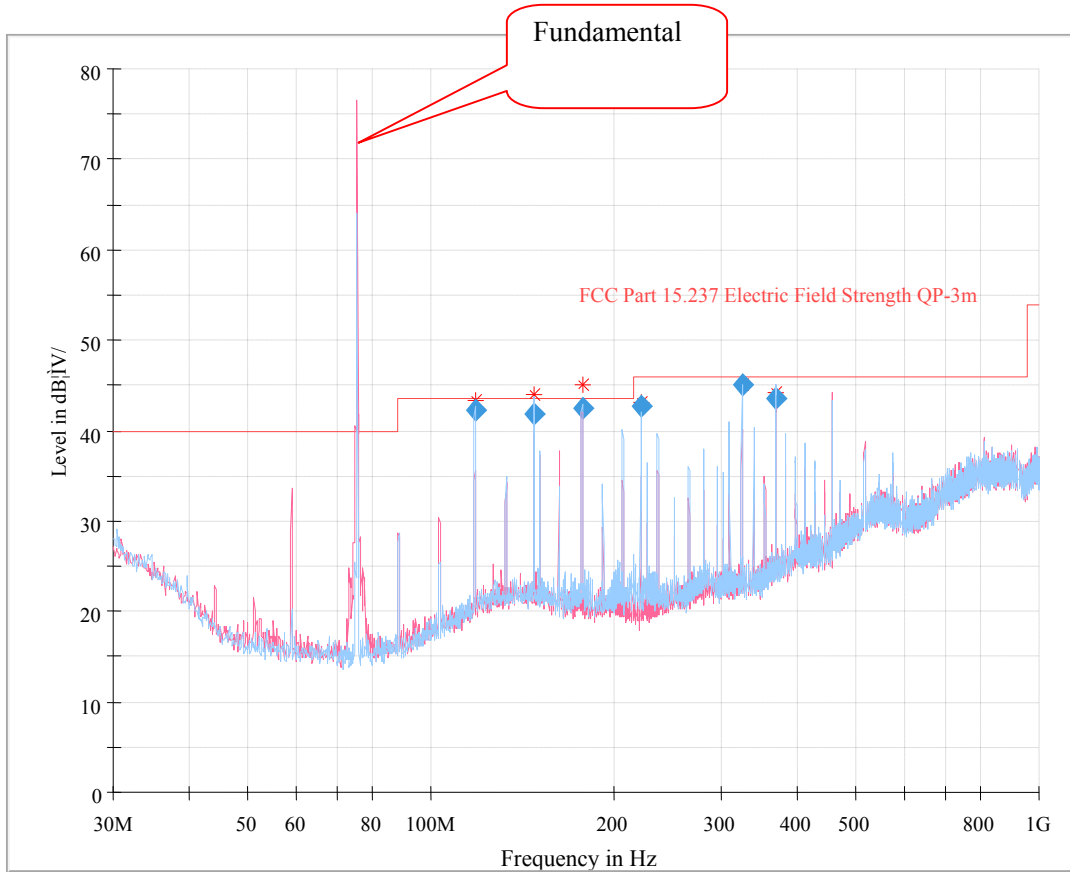
| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|----------------|-------------|
| 72.5MHz | | | | | | | |
| 117.969250 | 41.22 | 262.0 | H | 21.0 | -6.3 | 43.50 | 2.28 |
| 144.982750 | 42.34 | 215.0 | H | 198.0 | -4.6 | 43.50 | 1.16 |
| 147.475875 | 41.61 | 314.0 | H | 34.0 | -4.5 | 43.50 | 1.89 |
| 177.093625 | 41.80 | 149.0 | H | 93.0 | -5.6 | 43.50 | 1.70 |
| 324.692250 | 43.21 | 101.0 | H | 153.0 | -2.7 | 46.00 | 2.79 |
| 368.906750 | 42.69 | 107.0 | H | 47.0 | -1.6 | 46.00 | 3.31 |

74.7 MHz:



| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|----------------|-------------|
| 74.7MHz | | | | | | | |
| 118.048250 | 42.10 | 262.0 | H | 25.0 | -6.3 | 43.50 | 1.40 |
| 149.361375 | 41.29 | 102.0 | V | 136.0 | -4.5 | 43.50 | 2.21 |
| 177.146250 | 42.17 | 146.0 | H | 89.0 | -5.6 | 43.50 | 1.33 |
| 206.676625 | 41.77 | 160.0 | H | 288.0 | -5.7 | 43.50 | 1.73 |
| 324.826375 | 44.49 | 102.0 | H | 170.0 | -2.7 | 46.00 | 1.51 |
| 369.130500 | 43.50 | 105.0 | H | 51.0 | -1.6 | 46.00 | 2.50 |

75.6 MHz:



| Frequency (MHz) | Corrected Amplitude (dBµV/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Limit (dBµV/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|----------------|-------------|
| 75.6MHz | | | | | | | |
| 118.096875 | 42.36 | 257.0 | H | 39.0 | -6.3 | 43.50 | 1.14 |
| 151.258500 | 41.81 | 210.0 | H | 222.0 | -4.5 | 43.50 | 1.69 |
| 177.119000 | 42.44 | 146.0 | H | 95.0 | -5.6 | 43.50 | 1.06 |
| 221.400000 | 42.79 | 125.0 | H | 163.0 | -6.7 | 46.00 | 3.21 |
| 324.828375 | 44.99 | 102.0 | H | 152.0 | -2.7 | 46.00 | 1.01 |
| 369.096500 | 43.65 | 104.0 | H | 53.0 | -1.6 | 46.00 | 2.35 |

Note:

- 1) Corrected Amplitude = Meter Reading + Correction Factor
- 2) Correction Factor = Antenna Factor + Cable Loss - Amplifier Gain
- 3) Margin = Limit - Corrected Amplitude

Band edge**72.1 MHz**

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 72.0 | 34.41 | 105 | H | 72 | -11.9 | 22.51 | 40 | 17.49 |
| 72.0 | 35.59 | 230 | V | 29 | -11.9 | 23.69 | 40 | 16.31 |

72.9 MHz

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 73.0 | 34.19 | 200 | H | 294 | -11.8 | 22.39 | 40 | 17.61 |
| 73.0 | 35.57 | 245 | V | 108 | -11.8 | 23.77 | 40 | 16.23 |

74.7 MHz

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 74.6 | 36.96 | 165 | H | 165 | -11.7 | 25.26 | 40 | 14.74 |
| 74.6 | 37.03 | 305 | V | 305 | -11.7 | 25.33 | 40 | 14.67 |
| 74.8 | 36.96 | 135 | H | 135 | -11.7 | 25.26 | 40 | 14.74 |
| 74.8 | 37.03 | 173 | V | 173 | -11.7 | 25.33 | 40 | 14.67 |

75.3 MHz

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 75.2 | 36.96 | 226 | H | 34 | -11.7 | 25.26 | 40 | 14.74 |
| 75.2 | 37.03 | 286 | V | 325 | -11.7 | 25.33 | 40 | 14.67 |

75.9 MHz

| Frequency (MHz) | Reading level (dB μ V/m) | Antenna height (cm) | Antenna Polarity | Turntable position (degree) | Correction Factor (dB/m) | Corrected Amplitude (dB μ V/m) | Limit (dB μ V/m) | Margin (dB) |
|-----------------|------------------------------|---------------------|------------------|-----------------------------|--------------------------|------------------------------------|----------------------|-------------|
| 76.0 | 35.59 | 125 | H | 332 | -11.6 | 23.99 | 40 | 16.01 |
| 76.0 | 35.65 | 136 | V | 285 | -11.6 | 24.05 | 40 | 15.95 |

FCC §15.237(b) – 20 dB EMISSION BANDWIDTH

Applicable Standard

(b) Emissions from the intentional radiator shall be confined within a band 200 kHz wide centered on the operating frequency. The 200 kHz band shall lie wholly within the above specified frequency ranges.

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.

Test Data

Environmental Conditions

| | |
|---------------------------|-----------|
| Temperature: | 25 °C |
| Relative Humidity: | 50 % |
| ATM Pressure: | 101.0 kPa |

The testing was performed by Hill He on 2018-03-08.

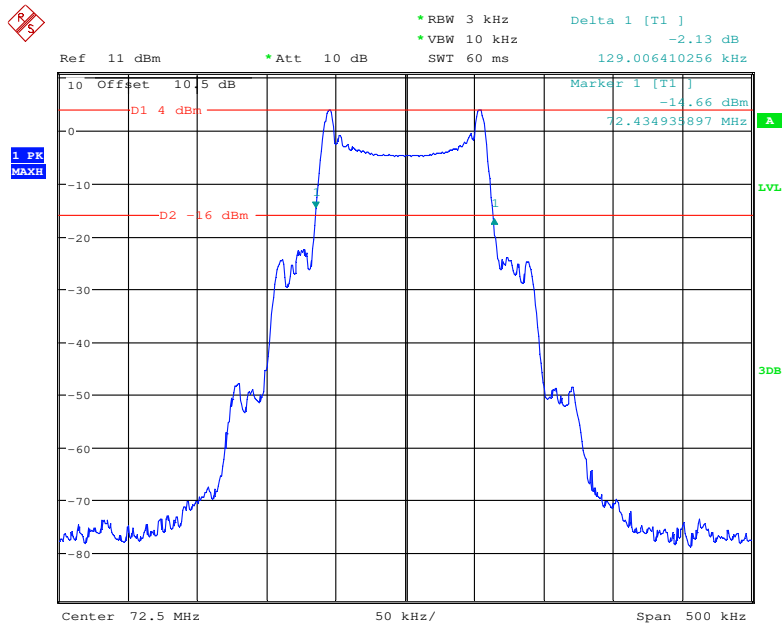
Test Result: Pass.

Please refer to the following table and plots.

EUT operation mode: Transmitting

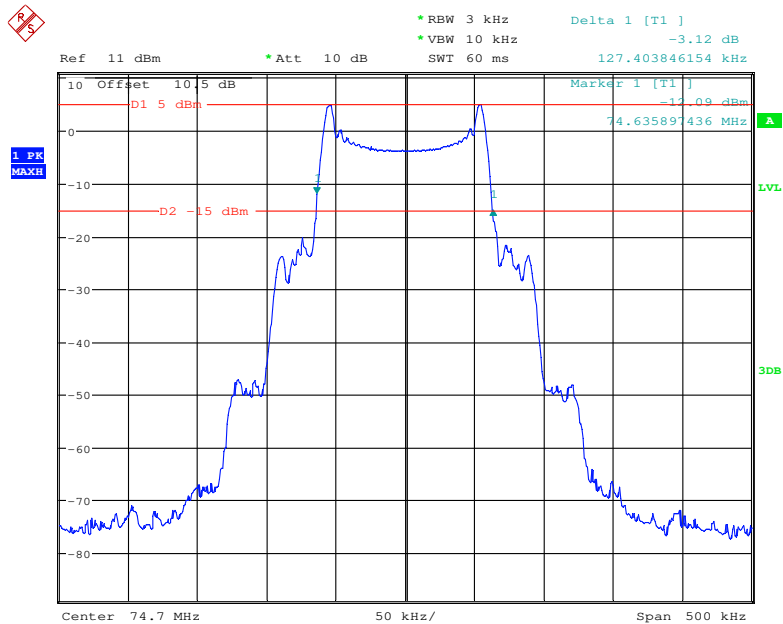
| Frequency (MHz) | 20 dB Emission Bandwidth (kHz) | Limit (kHz) |
|------------------------|---------------------------------------|--------------------|
| 72.5 | 129.01 | ≤200 |
| 74.7 | 127.40 | ≤200 |
| 75.6 | 128.21 | ≤200 |

Low Channel



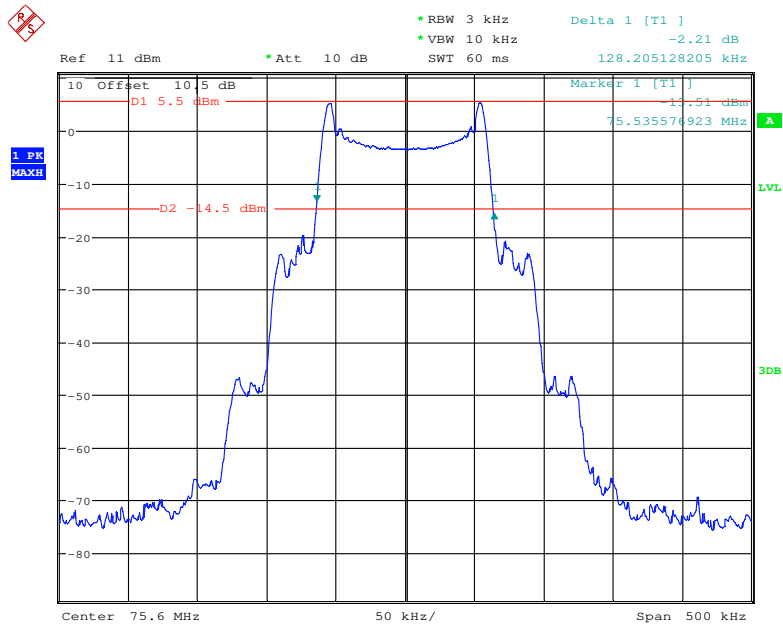
Date: 8.MAR.2018 09:18:04

Middle Channel



Date: 8.MAR.2018 09:22:56

High Channel



Date: 8.MAR.2018 09:25:51

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