



RADIO TEST REPORT

Report No: STS1704023F01

Issued for

Pinghu Jintong Electric Technology Company Limited

No. 658 Xingping Road, Pinghu Economic Development Zone, Jiaxing City, Zhejiang Province, China

| Product Name: | 2.4G Electric Kid's Car Controller |
|----------------|------------------------------------|
| Brand Name: | LEO |
| Model Name: | G50T |
| Series Model: | N/A |
| FCC ID: | 2ALSB-G50T |
| Test Standard: | FCC Part 15.247 |

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TEST RESULT CERTIFICATION

Applicant's name Pinghu Jintong Electric Technology Company Limited

Address No. 658 Xingping Road, Pinghu Economic Development Zone,

Jiaxing City, Zhejiang Province, China

Manufacture's Name...... Pinghu Jintong Electric Technology Company Limited

Jiaxing City, Zhejiang Province, China

Product description

Product name...... 2.4G Electric Kid's Car Controller

Model and/or type reference : G50T

Series Model N/A

Standards..... FCC Part15.247

Test procedure ANSI C63.10-2013

This device described above has been tested by STS, the test results show that the equipment under test (EUT) is in compliance with the FCC requirements. And it is applicable only to the tested sample identified in the report.

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Date of Test:

Date (s) of performance of tests...... 10 Apr. 2017 ~ 02 May. 2017

Date of Issue...... 03 May. 2017

Test Result..... Pass

Testing Engineer :

(Leo II)

Technical Manager

(Tony liu)

Authorized Signatory:

(Vita Li)







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1. SUMMARY OF TEST RESULTS

Test procedures according to the technical standards: KDB 558074 D01 DTS Meas Guidance v03r05

| FCC Part 15.247,Subpart C | | | | | |
|-------------------------------|--|----------|--------|--|--|
| Standard Section | Test Item | Judgment | Remark | | |
| 15.207 | Conducted Emission | | | | |
| 15.247 (a)(2) | 6dB Bandwidth | PASS | | | |
| 15.247 (b)(3) | Output Power | PASS | | | |
| 15.247 (c) | Radiated Spurious Emission | PASS | | | |
| 15.247 (d) | Conducted Spurious & Band Edge Emission | PASS | | | |
| 15.247 (e) | Power Spectral Density | PASS | | | |
| 15.205 | Restricted Band Edge Emission | PASS | | | |
| Part 15.247(d)/part 15.209(a) | Band Edge Emission | PASS | | | |
| 15.203 | Antenna Requirement | PASS | | | |

NOTE:

- (1) "N/A" denotes test is not applicable in this Test Report
- (2) All tests are according to ANSI C63.10-2013





1.1 TEST FACTORY

BZT Testing Technology Co., Ltd.

Add.: Buliding 17, Xinghua Road Xingwei industrial Park Fuyong,

Baoan District, Shenzhen, Guangdong, China

FCC Registration No.: 701733

1.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement $\mathbf{y} \pm \mathbf{U}$, where expended uncertainty \mathbf{U} is based on a standard uncertainty multiplied by a coverage factor of $\mathbf{k=2}$, providing a level of confidence of approximately $\mathbf{95}$ %.

| No. | Item | Uncertainty |
|-----|--|-------------|
| 1 | Conducted Emission (9KHz-150KHz) | ±2.88dB |
| 2 | Conducted Emission (150KHz-30MHz) | ±2.67dB |
| 3 | RF power,conducted | ±0.70dB |
| 4 | Spurious emissions,conducted | ±1.19dB |
| 5 | All emissions,radiated(<30M) (9KHz-30MHz) | ±2.45dB |
| 6 | All emissions,radiated(<1G) 30MHz-200MHz | ±2.83dB |
| 7 | All emissions,radiated(<1G) 200MHz-1000MHz | ±2.94dB |
| 8 | All emissions,radiated(>1G) | ±3.03dB |
| 9 | Temperature | ±0.5°C |
| 10 | Humidity | ±2% |





2. GENERAL INFORMATION

2.1 GENERAL DESCRIPTION OF EUT

| Equipment | 2.4G Electric Kid's Car Controller | | | |
|-------------------------|--|--|--|--|
| Trade Name | LEO | | | |
| Model Name | G50T | | | |
| Series Model | N/A | | | |
| Model Difference | N/A | | | |
| Product Description | The EUT is a 2.4G Electric Kid's Car Controller Operation Frequency: Modulation Type: Modulation Type: Operation Electric Kid's Car Controller 2408~2474 MHz Operation Operation Operation Electric Kid's Car Controller 2408~2474 MHz Operation Operation In the property of th | | | |
| Channel List | Please refer to the Note 2. | | | |
| Power Rating | DC3V | | | |
| Hardware version number | 5123 | | | |
| Software version number | V5 | | | |
| Connecting I/O Port(s) | Please refer to the User's Manual | | | |

Note:

1. For a more detailed features description, please refer to the manufacturer's specifications or the User's Manual.



2

Channel List

| Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) | Channel | Frequency (MHz) |
|---------|--------------------|---------|--------------------|---------|--------------------|---------|--------------------|
| 01 | 2408 | 09 | 2432 | 17 | 2456 | | |
| 02 | 2411 | 10 | 2435 | 18 | 2459 | | |
| 03 | 2414 | 11 | 2438 | 19 | 2462 | | |
| 04 | 2417 | 12 | 2441 | 20 | 2465 | | |
| 05 | 2420 | 13 | 2444 | 21 | 2468 | | |
| 06 | 2423 | 14 | 2447 | 22 | 2471 | | |
| 07 | 2426 | 15 | 2450 | 23 | 2472 | | |
| 08 | 2429 | 16 | 2453 | 24 | 2474 | | |

3.

Table for Filed Antenna

| Ant. | Brand | Model Name | Antenna Type | Connector | Gain (dBi) |
|------|-------|------------|--------------|-----------|------------|
| 1 | LEO | G50T | PCB Antenna | N/A | 0.94 |



2.2 DESCRIPTION OF TEST MODES

For conducted test items and radiated spurious emissions Each of these EUT operation mode(s) or test configuration mode(s) mentioned below was evaluated respectively..

| Worst Mode | Description | Data/Modulation |
|------------|------------------|-----------------|
| Mode 1 | TX CH01(2408MHz) | 1 MHz/GFSK |
| Mode 2 | TX CH12(2441MHz) | 1 MHz/GFSK |
| Mode 3 | TX CH24(2474MHz) | 1 MHz/GFSK |

Note:

- (1) The measurements are performed at all Bit Rate of Transmitter, the worst data was reported
- (2) The EUT was programmed to be in continuously transmitting with a modulated carrier at maximum power on bottom/middle/top channels as required using the supported data rates/modulation types and the transmit duty cycle is not less than 98%.
- (3) Controlled using a bespoke application on the laptop PC supplied by the customer. The application was used to enable a continuous transmission mode and to select the test channels, data rates and modulation schemes as required.



2.3 BLOCK DIGRAM SHOWING THE CONFIGURATION OF SYSTEM TESTED

Radiated Spurious Emission Test

E-1 EUT

NOTE: New battery is used during all test

2.4 DESCRIPTION OF SUPPORT UNITS

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

| Item | Equipment | Mfr/Brand | Model/Type No. | Serial No. | Note |
|------|---------------------------------------|-----------|----------------|------------|------|
| E-1 | 2.4G Electric Kid's Car Controller | LEO | G50T | N/A | EUT |
| | | | | | |
| | | | | | |
| | | | | 7 | |
| | \ | | | | |

| Item | Shielded Type | Ferrite Core | Length | Note |
|------|---------------|--------------|--------|------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Note:

- (1) The support equipment was authorized by Declaration of Confirmation.
- (2) For detachable type I/O cable should be specified the length in cm in <code>"Length_"</code> column.
- (3) "YES" is means "shielded" "with core"; "NO" is means "unshielded" "without core".



2.5 EQUIPMENTS LIST FOR ALL TEST ITEMS

Radiation Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|-----------------------|--------------|---------------------|--------------------|------------------|------------------|
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2016.10.23 | 2017.10.22 |
| Test Receiver | R&S | ESCI | 101427 | 2016.10.23 | 2017.10.22 |
| Bilog Antenna | TESEQ | CBL6111D | 34678 | 2014.11.24 | 2017.11.23 |
| Horn Antenna | Schwarzbeck | BBHA 9120D(1201) | 9120D-1343 | 2015.03.05 | 2018.03.04 |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-0741 | 2016.03.06 | 2019.03.05 |
| 50Ω Coaxial Switch | Anritsu | MP59B | 6200264416 | 2016.06.06 | 2017.06.05 |
| PreAmplifier | Agilent | 8449B | 60538 | 2016.10.23 | 2017.10.22 |
| Loop Antenna | EMCO | 6502 | 9003-2485 | 2016.03.06 | 2019.03.05 |
| Preamplifier | Agilent | 8449B | 60538 | 2016.10.23 | 2017.10.22 |
| Low frequency cable | EM | R01 | N/A | NCR | NCR |
| High frequency cable | SCHWARZBECK | AK9515H | SN-96286/9628 7 | NCR | NCR |
| Semi-anechoic chamber | Changling | 966 | N/A | 2016.10.23 | 2017.10.22 |

Conduction Test equipment

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|-------------------|--------------|----------|------------|------------------|------------------|
| EMI Test Receiver | R&S | ESPI | 102086 | 2016.10.23 | 2017.10.22 |
| LISN | R&S | ENV216 | 101242 | 2016.10.23 | 2017.10.22 |
| LISN | EMCO | 3810/2NM | 000-23625 | 2016.10.23 | 2017.10.22 |
| Conduction Cable | EM | C01 | N/A | NCR | NCR |
| Shielding Room | Changling | 854 | N/A | 2016.10.23 | 2017.10.22 |

RF Connected Test

| Kind of Equipment | Manufacturer | Type No. | Serial No. | Last calibration | Calibrated until |
|---------------------|--------------|----------|---------------|------------------|------------------|
| USB RF power sensor | DARE | RPR3006W | 15I00041SNO03 | 2016.10.23 | 2017.10.22 |
| Spectrum Analyzer | Agilent | E4407B | MY50140340 | 2016.10.23 | 2017.10.22 |
| Signal Analyzer | Agilent | N9020A | MY49100060 | 2016.10.23 | 2017.10.22 |

Note: The temporary antenna connector is soldered on the PCB board in order to perform conducted tests and this temporary antenna connector is listed in the equipment list.



3. EMC EMISSION TEST

3.1 CONDUCTED EMISSION MEASUREMENT

3.1.1 POWER LINE CONDUCTED EMISSION LIMITS

operating frequency band. In case the emission fall within the restricted band specified on Part 207(a) limit in the table below has to be followed.

| | Conducted Emission limit (dBuV) | | |
|-----------------|---------------------------------|-----------|--|
| FREQUENCY (MHz) | Quasi-peak | Average | |
| 0.15 -0.5 | 66 - 56 * | 56 - 46 * | |
| 0.50 -5.0 | 56.00 | 46.00 | |
| 5.0 -30.0 | 60.00 | 50.00 | |

Note:

- (1) The tighter limit applies at the band edges.
- (2) The limit of " * " marked band means the limitation decreases linearly with the logarithm of the frequency in the range.

The following table is the setting of the receiver

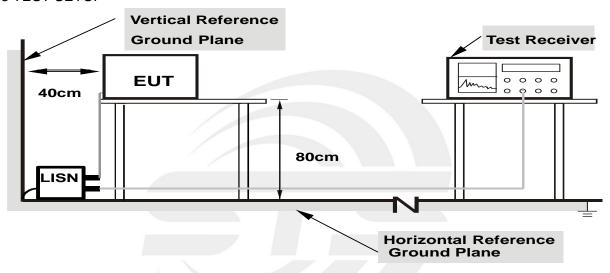
| Receiver Parameters | Setting |
|---------------------|----------|
| Attenuation | 10 dB |
| Start Frequency | 0.15 MHz |
| Stop Frequency | 30 MHz |
| IF Bandwidth | 9 kHz |



3.2 TEST PROCEDURE

- a. The EUT was 0.8 meters from the horizontal ground plane and 0.4 meters from the vertical ground plane with EUT being connected to the power mains through a line impedance stabilization network (LISN). All other support equipments powered from additional LISN(s). The LISN provide 50 Ohm/ 50uH of coupling impedance for the measuring instrument.
- b. Interconnecting cables that hang closer than 40 cm to the ground plane shall be folded back and forth in the center forming a bundle 30 to 40 cm long.
- c. I/O cables that are not connected to a peripheral shall be bundled in the center. The end of the cable may be terminated, if required, using the correct terminating impedance. The overall length shall not exceed 1 m.
- d. LISN at least 80 cm from nearest part of EUT chassis.
- e. For the actual test configuration, please refer to the related Item -EUT Test Photos.

3.3 TEST SETUP



Note: 1.Support units were connected to second LISN.

2.Both of LISNs (AMN) are 80 cm from EUT and at least 80 from other units and other metal planes

3.4 EUT OPERATING CONDITIONS

The EUT was configured for testing in a typical fashion (as a customer would normally use it). The EUT has been programmed to continuously transmit during test. This operating condition was tested and used to collect the included data.





3.5 TEST RESULTS

| Temperature: | 26 ℃ | Relative Humidity: | 54% |
|---------------|-------------|--------------------|-----|
| Pressure: | 1010hPa | Phase: | L/N |
| Test Voltage: | DC 3V | Test Mode: | N/A |

Note: denotes test is not applicable in this test report.





4. RADIATED EMISSION MEASUREMENT

4.1 RADIATED EMISSION LIMITS

in any 100 kHz bandwidth outside the operating frequency band. In case the emission fall within the Restricted band specified on Part15.205(a)&209(a) limit in the table and according to ANSI C63.10-2013 below has to be followed.

LIMITS OF RADIATED EMISSION MEASUREMENT (Frequency Range 9kHz-1000MHz)

| Frequencies | Field Strength | Measurement Distance |
|-------------|--------------------|----------------------|
| (MHz) | (micorvolts/meter) | (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 |

LIMITS OF RADIATED EMISSION MEASUREMENT (Above 1000MHz)

| | (dBuV/m) (at 3M) | | |
|-----------------|------------------|---------|--|
| FREQUENCY (MHz) | PEAK | AVERAGE | |
| Above 1000 | 74 | 54 | |

Notes:

- (1) The limit for radiated test was performed according to FCC PART 15C.
- (2) The tighter limit applies at the band edges.
- (3) Emission level (dBuV/m)=20log Emission level (uV/m).

For Radiated Emission

| Spectrum Parameter | Setting | |
|---------------------------------|-------------------------------|--|
| Attenuation | Auto | |
| Detector | Peak | |
| Start Frequency | 1000 MHz(Peak/AV) | |
| Stop Frequency | 10th carrier hamonic(Peak/AV) | |
| RB / VB (emission in restricted | 4 MH= / 2 MH= | |
| band) | 1 MHz / 3 MHz | |

For Band edge

| Spectrum Parameter | Setting | |
|---------------------------------------|-----------------------------------|--|
| Detector | Peak | |
| Ctart/Ctan Fraguency | Lower Band Edge: 2370 to 2410 MHz | |
| Start/Stop Frequency | Upper Band Edge: 2473 to 2500 MHz | |
| RB / VB (emission in restricted band) | 1 MHz / 3 MHz | |





| Receiver Parameter | Setting |
|------------------------|--------------------------------------|
| Start ~ Stop Frequency | 9kHz~90kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 90kHz~110kHz / RB 200Hz for QP |
| Start ~ Stop Frequency | 110kHz~490kHz / RB 200Hz for PK & AV |
| Start ~ Stop Frequency | 490kHz~30MHz / RB 9kHz for QP |
| Start ~ Stop Frequency | 30MHz~1000MHz / RB 120kHz for QP |

4.2 TEST PROCEDURE

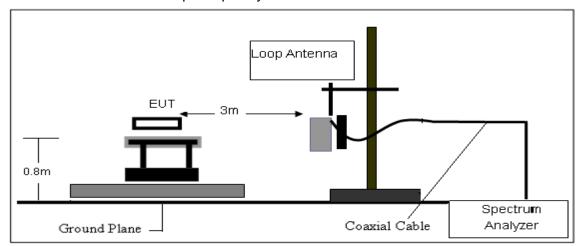
- a. The measuring distance of at 3 m shall be used for measurements at frequency 0.009MHz up to 1GHz, and above 1GHz.
- b. The EUT was placed on the top of a rotating table 0.8 meters(above 1GHz is 1.5 m) above the ground at a 3 meter anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The height of the equipment shall be 0.8 m(above 1GHz is 1.5 m); the height of the test antenna shall vary between 1 m to 4 m. Horizontal and vertical polarizations of the antenna are set to make the measurement
- d. The initial step in collecting conducted emission data is a spectrum analyzer peak detector mode pre-scanning the measurement frequency range. Significant peaks are then marked and then Quasi Peak detector mode re-measured.
- e. If the Peak Mode measured value compliance with and lower than Quasi Peak Mode Limit, the EUT shall be deemed to meet QP Limits and then no additional QP Mode measurement performed.
- f. For the actual test configuration, please refer to the related Item –EUT Test Photos.

Both horizontal and vertical antenna polarities were tested and performed pretest to three orthogonal axis. The worst case emissions were reported.

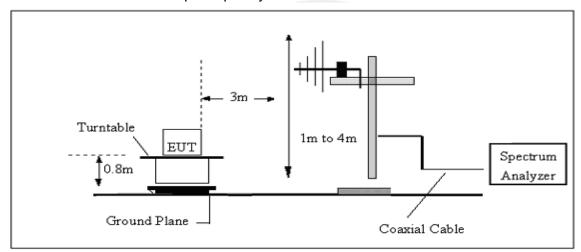


4.3 TEST SETUP

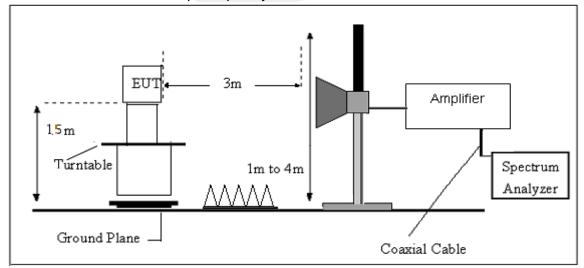
(A) Radiated Emission Test-Up Frequency Below 30MHz



(B) Radiated Emission Test-Up Frequency 30MHz~1GHz



(C) Radiated Emission Test-Up Frequency Above 1GHz



4.4 EUT OPERATING CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





4.5 TEST RESULTS

(Between 9KHz - 30 MHz)

| Temperature: | 20 ℃ | Relative Humidtity: | 48% |
|--------------|----------|---------------------|-------|
| Pressure: | 1010 hPa | Test Voltage: | DC 3V |
| Test Mode: | TX Mode | Polarization: | |

| Freq. | Reading | Limit | Margin | State |
|-------|----------|----------|--------|-------|
| (MHz) | (dBuV/m) | (dBuV/m) | (dB) | P/F |
| | | | | PASS |
| | | | | PASS |

Note:

The amplitude of spurious emissions which are attenuated by more than 20dB below the permissible value has no need to be reported.

Distance extrapolation factor =40 log (specific distance/test distance)(dB);

Limit line = specific limits(dBuv) + distance extrapolation factor.



(30MHz -1000MHz)

| Temperature: | 24 ℃ | Relative Humidity: | 56% |
|---------------|-------------|--------------------|----------------------------------|
| Pressure: | 1010hPa | Phase: | Horizontal |
| Test Voltage: | DC 3V | Test Mode: | Mode1/2/3 (Mode 2 worst mode) |

| Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 49.1865 | 45.45 | -21.06 | 24.39 | 40.00 | -15.61 | QP |
| 100.2286 | 35.92 | -19.17 | 16.75 | 43.50 | -26.75 | QP |
| 137.4200 | 34.21 | -17.52 | 16.69 | 43.50 | -26.81 | QP |
| 451.1350 | 32.83 | -10.46 | 22.37 | 46.00 | -23.63 | QP |
| 552.8831 | 30.39 | -6.71 | 23.68 | 46.00 | -22.32 | QP |
| 975.7527 | 28.48 | -0.14 | 28.34 | 54.00 | -25.66 | QP |

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit





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| Temperature: | 24 ℃ | Relative Humidity: | 56% |
|---------------|-------------|--------------------|----------------------------------|
| Pressure: | 1010hPa | Phase: | Vertical |
| Test Voltage: | DC 3V | LIACT IVIONA' | Mode1/2/3 (Mode 2 worst mode) |

| Frequency | Reading | Correct | Result | Limit | Margin | Remark |
|-----------|---------|--------------|----------|----------|--------|--------|
| (MHz) | (dBuV) | Factor(dB/m) | (dBuV/m) | (dBuV/m) | (dB) | |
| 37.9450 | 42.94 | -15.26 | 27.68 | 40.00 | -12.32 | QP |
| 49.8813 | 46.32 | -21.42 | 24.90 | 40.00 | -15.10 | QP |
| 100.2286 | 38.21 | -19.17 | 19.04 | 43.50 | -24.46 | QP |
| 136.9391 | 34.98 | -17.52 | 17.46 | 43.50 | -26.04 | QP |
| 375.9384 | 35.73 | -12.73 | 23.00 | 46.00 | -23.00 | QP |
| 975.7528 | 28.48 | -0.14 | 28.34 | 54.00 | -25.66 | QP |

Remark:

1. Margin = Result (Result = Reading + Factor)-Limit





(1GHz-25GHz)Restricted band and Spurious emission Requirements

GFSK Low Channel

| | | | | Antenna | Corrected | Emission | | | | |
|-----------|------------------------|-----------|-------|---------|-----------|----------|----------|--------|----------|------------|
| Frequency | Reading | Amplifier | Loss | Factor | Factor | Level | Limits | Margin | Detector | |
| (MHz) | (dBµV) | (dB) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре | Comment |
| | Low Channel (2408 MHz) | | | | | | | | | |
| 3264.82 | 48.03 | 44.70 | 6.70 | 28.20 | -9.80 | 38.23 | 74.00 | -35.77 | PK | Vertical |
| 3264.82 | 39.03 | 44.70 | 6.70 | 28.20 | -9.80 | 29.23 | 54.00 | -24.77 | AV | Vertical |
| 3264.73 | 48.40 | 44.70 | 6.70 | 28.20 | -9.80 | 38.60 | 74.00 | -35.40 | PK | Horizontal |
| 3264.73 | 38.08 | 44.70 | 6.70 | 28.20 | -9.80 | 28.28 | 54.00 | -25.72 | AV | Horizontal |
| 4804.29 | 58.79 | 44.20 | 9.04 | 31.60 | -3.56 | 55.23 | 74.00 | -18.77 | PK | Vertical |
| 4804.29 | 39.10 | 44.20 | 9.04 | 31.60 | -3.56 | 35.54 | 54.00 | -18.46 | AV | Vertical |
| 4804.44 | 58.76 | 44.20 | 9.04 | 31.60 | -3.56 | 55.20 | 74.00 | -18.80 | PK | Horizontal |
| 4804.44 | 39.08 | 44.20 | 9.04 | 31.60 | -3.56 | 35.52 | 54.00 | -18.48 | AV | Horizontal |
| 5359.65 | 46.18 | 44.20 | 9.86 | 32.00 | -2.34 | 43.84 | 74.00 | -30.16 | PK | Vertical |
| 5359.65 | 38.39 | 44.20 | 9.86 | 32.00 | -2.34 | 36.05 | 54.00 | -17.95 | AV | Vertical |
| 5359.57 | 46.36 | 44.20 | 9.86 | 32.00 | -2.34 | 44.02 | 74.00 | -29.98 | PK | Horizontal |
| 5359.57 | 38.02 | 44.20 | 9.86 | 32.00 | -2.34 | 35.68 | 54.00 | -18.32 | AV | Horizontal |
| 7205.75 | 51.26 | 43.50 | 11.40 | 35.50 | 3.40 | 54.66 | 74.00 | -19.34 | PK | Vertical |
| 7205.75 | 33.48 | 43.50 | 11.40 | 35.50 | 3.40 | 36.88 | 54.00 | -17.12 | AV | Vertical |
| 7205.78 | 51.33 | 43.50 | 11.40 | 35.50 | 3.40 | 54.73 | 74.00 | -19.27 | PK | Horizontal |
| 7205.78 | 33.85 | 43.50 | 11.40 | 35.50 | 3.40 | 37.25 | 54.00 | -16.75 | AV | Horizontal |
| 11035.95 | 40.70 | 43.60 | 14.30 | 39.50 | 10.20 | 50.90 | 74.00 | -23.10 | PK | Vertical |
| 11035.95 | 30.54 | 43.60 | 14.30 | 39.50 | 10.20 | 40.74 | 54.00 | -13.26 | AV | Vertical |
| 11036.12 | 40.03 | 43.60 | 14.30 | 39.50 | 10.20 | 50.23 | 74.00 | -23.77 | PK | Horizontal |
| 11036.12 | 29.70 | 43.60 | 14.30 | 39.50 | 10.20 | 39.90 | 54.00 | -14.10 | AV | Horizontal |
| 13299.14 | 40.36 | 42.60 | 15.90 | 38.90 | 12.20 | 52.56 | 74.00 | -21.44 | PK | Vertical |
| 13299.14 | 28.54 | 42.60 | 15.90 | 38.90 | 12.20 | 40.74 | 54.00 | -13.26 | AV | Vertical |
| 13299.27 | 41.06 | 42.60 | 15.90 | 38.90 | 12.20 | 53.26 | 74.00 | -20.74 | PK | Horizontal |
| 13299.27 | 29.61 | 42.60 | 15.90 | 38.90 | 12.20 | 41.81 | 54.00 | -12.19 | AV | Horizontal |
| 15999.76 | 40.13 | 42.70 | 18.00 | 37.10 | 12.40 | 52.53 | 74.00 | -21.47 | PK | Vertical |
| 15999.76 | 28.64 | 42.70 | 18.00 | 37.10 | 12.40 | 41.04 | 54.00 | -12.96 | AV | Vertical |
| 15999.73 | 40.54 | 42.70 | 18.00 | 37.10 | 12.40 | 52.94 | 74.00 | -21.06 | PK | Horizontal |
| 15999.73 | 29.56 | 42.70 | 18.00 | 37.10 | 12.40 | 41.96 | 54.00 | -12.04 | AV | Horizontal |
| 17997.88 | 30.75 | 42.70 | 19.40 | 46.50 | 23.20 | 53.95 | 74.00 | -20.05 | PK | Vertical |
| 17997.88 | 19.69 | 42.70 | 19.40 | 46.50 | 23.20 | 42.89 | 54.00 | -11.11 | AV | Vertical |
| 17997.59 | 30.26 | 42.70 | 19.40 | 46.50 | 23.20 | 53.46 | 74.00 | -20.54 | PK | Horizontal |
| 17997.59 | 19.12 | 42.70 | 19.40 | 46.50 | 23.20 | 42.32 | 54.00 | -11.68 | AV | Horizontal |



GFSK Mid Channel

| | | | | Antenna | Corrected | Emission | | | | |
|-----------|---------|-----------|-------|---------|-----------------|----------|------------|--------|----------|------------|
| Frequency | Reading | Amplifier | Loss | Factor | Factor | Level | Limits | Margin | Detector | |
| (MHz) | (dBµV) | (dB) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Type | Comment |
| (IVII IZ) | (чори) | (db) | (ub) | | Channel (2441 N | | (αδμν/ιιι) | (db) | Туре | Comment |
| 3264.80 | 49.12 | 44.70 | 6.70 | 28.20 | -9.80 | 39.32 | 74.00 | -34.68 | PK | Vertical |
| 3264.80 | 38.94 | 44.70 | 6.70 | | -9.80 | 29.14 | 54.00 | -24.86 | AV | |
| | | | | 28.20 | | | | -34.75 | | Vertical |
| 3264.74 | 49.05 | 44.70 | 6.70 | 28.20 | -9.80 | 39.25 | 74.00 | | PK | Horizontal |
| 3264.74 | 38.01 | 44.70 | 6.70 | 28.20 | -9.80 | 28.21 | 54.00 | -25.79 | AV | Horizontal |
| 4880.54 | 59.28 | 44.20 | 9.04 | 31.60 | -3.56 | 55.72 | 74.00 | -18.28 | PK | Vertical |
| 4880.54 | 38.63 | 44.20 | 9.04 | 31.60 | -3.56 | 35.07 | 54.00 | -18.93 | AV | Vertical |
| 4880.48 | 58.26 | 44.20 | 9.04 | 31.60 | -3.56 | 54.70 | 74.00 | -19.30 | PK | Horizontal |
| 4880.48 | 38.57 | 44.20 | 9.04 | 31.60 | -3.56 | 35.01 | 54.00 | -18.99 | AV | Horizontal |
| 5359.67 | 45.02 | 44.20 | 9.86 | 32.00 | -2.34 | 42.68 | 74.00 | -31.32 | PK | Vertical |
| 5359.67 | 38.25 | 44.20 | 9.86 | 32.00 | -2.34 | 35.91 | 54.00 | -18.09 | AV | Vertical |
| 5359.83 | 46.07 | 44.20 | 9.86 | 32.00 | -2.34 | 43.73 | 74.00 | -30.27 | PK | Horizontal |
| 5359.83 | 37.92 | 44.20 | 9.86 | 32.00 | -2.34 | 35.58 | 54.00 | -18.42 | AV | Horizontal |
| 7310.85 | 50.84 | 43.50 | 11.40 | 35.50 | 3.40 | 54.24 | 74.00 | -19.76 | PK | Vertical |
| 7310.85 | 33.73 | 43.50 | 11.40 | 35.50 | 3.40 | 37.13 | 54.00 | -16.87 | AV | Vertical |
| 7310.73 | 51.83 | 43.50 | 11.40 | 35.50 | 3.40 | 55.23 | 74.00 | -18.77 | PK | Horizontal |
| 7310.73 | 32.75 | 43.50 | 11.40 | 35.50 | 3.40 | 36.15 | 54.00 | -17.85 | AV | Horizontal |
| 9607.89 | 40.14 | 43.60 | 14.30 | 39.50 | 10.20 | 50.34 | 74.00 | -23.66 | PK | Vertical |
| 9607.89 | 30.42 | 43.60 | 14.30 | 39.50 | 10.20 | 40.62 | 54.00 | -13.38 | AV | Vertical |
| 9608.03 | 40.81 | 43.60 | 14.30 | 39.50 | 10.20 | 51.01 | 74.00 | -22.99 | PK | Horizontal |
| 9608.03 | 30.79 | 43.60 | 14.30 | 39.50 | 10.20 | 40.99 | 54.00 | -13.01 | AV | Horizontal |
| 13299.31 | 40.18 | 42.60 | 15.90 | 38.90 | 12.20 | 52.38 | 74.00 | -21.62 | PK | Vertical |
| 13299.31 | 28.54 | 42.60 | 15.90 | 38.90 | 12.20 | 40.74 | 54.00 | -13.26 | AV | Vertical |
| 13299.31 | 40.70 | 42.60 | 15.90 | 38.90 | 12.20 | 52.90 | 74.00 | -21.10 | PK | Horizontal |
| 13299.31 | 29.75 | 42.60 | 15.90 | 38.90 | 12.20 | 41.95 | 54.00 | -12.05 | AV | Horizontal |
| 15999.85 | 40.37 | 42.70 | 18.00 | 37.10 | 12.40 | 52.77 | 74.00 | -21.23 | PK | Vertical |
| 15999.85 | 28.64 | 42.70 | 18.00 | 37.10 | 12.40 | 41.04 | 54.00 | -12.96 | AV | Vertical |
| 15999.82 | 40.09 | 42.70 | 18.00 | 37.10 | 12.40 | 52.49 | 74.00 | -21.51 | PK | Horizontal |
| 15999.82 | 28.99 | 42.70 | 18.00 | 37.10 | 12.40 | 41.39 | 54.00 | -12.61 | AV | Horizontal |
| 17997.84 | 30.95 | 42.70 | 19.40 | 46.50 | 23.20 | 54.15 | 74.00 | -19.85 | PK | Vertical |
| 17997.84 | 20.19 | 42.70 | 19.40 | 46.50 | 23.20 | 43.39 | 54.00 | -10.61 | AV | Vertical |
| 17997.63 | 30.06 | 42.70 | 19.40 | 46.50 | 23.20 | 53.26 | 74.00 | -20.74 | PK | Horizontal |
| 17997.63 | 18.74 | 42.70 | 19.40 | 46.50 | 23.20 | 41.94 | 54.00 | -12.06 | AV | Horizontal |



GFSK High Channel

| Of SK High Chamilei | | | | | | | | | | |
|---------------------|-------------------------|-----------|-------|---------|-----------|----------|----------|--------|----------|------------|
| | | | | Antenna | Corrected | Emission | | | | |
| Frequency | Reading | Amplifier | Loss | Factor | Factor | Level | Limits | Margin | Detector | |
| (MHz) | (dBµV) | (dB) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре | Comment |
| | High Channel (2474 MHz) | | | | | | | | | |
| 3264.72 | 48.96 | 44.70 | 6.70 | 28.20 | -9.80 | 39.16 | 74.00 | -34.84 | PK | Vertical |
| 3264.72 | 39.04 | 44.70 | 6.70 | 28.20 | -9.80 | 29.24 | 54.00 | -24.76 | AV | Vertical |
| 3264.85 | 47.88 | 44.70 | 6.70 | 28.20 | -9.80 | 38.08 | 74.00 | -35.92 | PK | Horizontal |
| 3264.85 | 38.64 | 44.70 | 6.70 | 28.20 | -9.80 | 28.84 | 54.00 | -25.16 | AV | Horizontal |
| 4960.32 | 58.85 | 44.20 | 9.04 | 31.60 | -3.56 | 55.29 | 74.00 | -18.71 | PK | Vertical |
| 4960.32 | 39.16 | 44.20 | 9.04 | 31.60 | -3.56 | 35.60 | 54.00 | -18.40 | AV | Vertical |
| 4960.52 | 58.97 | 44.20 | 9.04 | 31.60 | -3.56 | 55.41 | 74.00 | -18.59 | PK | Horizontal |
| 4960.52 | 39.26 | 44.20 | 9.04 | 31.60 | -3.56 | 35.70 | 54.00 | -18.30 | AV | Horizontal |
| 5359.73 | 46.34 | 44.20 | 9.86 | 32.00 | -2.34 | 44.00 | 74.00 | -30.00 | PK | Vertical |
| 5359.73 | 37.24 | 44.20 | 9.86 | 32.00 | -2.34 | 34.90 | 54.00 | -19.10 | AV | Vertical |
| 5359.63 | 46.27 | 44.20 | 9.86 | 32.00 | -2.34 | 43.93 | 74.00 | -30.07 | PK | Horizontal |
| 5359.63 | 37.72 | 44.20 | 9.86 | 32.00 | -2.34 | 35.38 | 54.00 | -18.62 | AV | Horizontal |
| 7439.84 | 51.95 | 43.50 | 11.40 | 35.50 | 3.40 | 55.35 | 74.00 | -18.65 | PK | Vertical |
| 7439.84 | 33.05 | 43.50 | 11.40 | 35.50 | 3.40 | 36.45 | 54.00 | -17.55 | AV | Vertical |
| 7439.94 | 51.81 | 43.50 | 11.40 | 35.50 | 3.40 | 55.21 | 74.00 | -18.79 | PK | Horizontal |
| 7439.94 | 33.35 | 43.50 | 11.40 | 35.50 | 3.40 | 36.75 | 54.00 | -17.25 | AV | Horizontal |
| 9920.01 | 40.16 | 43.60 | 14.30 | 39.50 | 10.20 | 50.36 | 74.00 | -23.64 | PK | Vertical |
| 9920.01 | 29.76 | 43.60 | 14.30 | 39.50 | 10.20 | 39.96 | 54.00 | -14.04 | AV | Vertical |
| 9920.06 | 40.38 | 43.60 | 14.30 | 39.50 | 10.20 | 50.58 | 74.00 | -23.42 | PK | Horizontal |
| 9920.06 | 31.07 | 43.60 | 14.30 | 39.50 | 10.20 | 41.27 | 54.00 | -12.73 | AV | Horizontal |
| 13299.41 | 40.86 | 42.70 | 18.00 | 37.10 | 12.40 | 53.26 | 74.00 | -20.74 | PK | Vertical |
| 13299.41 | 28.54 | 42.70 | 18.00 | 37.10 | 12.40 | 40.94 | 54.00 | -13.06 | AV | Vertical |
| 13299.40 | 40.48 | 42.70 | 18.00 | 37.10 | 12.40 | 52.88 | 74.00 | -21.12 | PK | Horizontal |
| 13299.40 | 28.99 | 42.70 | 18.00 | 37.10 | 12.40 | 41.39 | 54.00 | -12.61 | AV | Horizontal |
| 17997.65 | 30.40 | 42.70 | 19.40 | 46.50 | 23.20 | 53.60 | 74.00 | -20.40 | PK | Vertical |
| 17997.65 | 19.48 | 42.70 | 19.40 | 46.50 | 23.20 | 42.68 | 54.00 | -11.32 | AV | Vertical |
| 17997.67 | 30.96 | 42.70 | 19.40 | 46.50 | 23.20 | 54.16 | 74.00 | -19.84 | PK | Horizontal |
| 17997.67 | 18.17 | 42.70 | 19.40 | 46.50 | 23.20 | 41.37 | 54.00 | -12.63 | AV | Horizontal |
| | | | | | | | | | | |

Note:

Factor = Antenna Factor + Cable Loss - Pre-amplifier.
 Emission Level = Reading + Factor





4.6 TEST RESULTS (Restricted Bands Requirements)

| | | | | Antenna | Corrected | Emission | | | | |
|-----------|---------|-----------|------|---------|-----------|----------|----------|--------|----------|------------|
| Frequency | Reading | Amplifier | Loss | Factor | Factor | Level | Limits | Margin | Detector | |
| (MHz) | (dBµV) | (dB) | (dB) | (dB/m) | (dB) | (dBµV/m) | (dBµV/m) | (dB) | Туре | Comment |
| | | | | | GFSK | | | | | |
| 2390.00 | 68.16 | 43.80 | 4.91 | 25.90 | -12.99 | 55.17 | 74 | -18.83 | PK | Vertical |
| 2390.00 | 53.18 | 43.80 | 4.91 | 25.90 | -12.99 | 40.19 | 54 | -13.81 | AV | Vertical |
| 2390.00 | 69.60 | 43.80 | 4.91 | 25.90 | -12.99 | 56.61 | 74 | -17.39 | PK | Horizontal |
| 2390.00 | 53.04 | 43.80 | 4.91 | 25.90 | -12.99 | 40.05 | 54 | -13.95 | AV | Horizontal |
| 2483.50 | 70.12 | 43.80 | 5.12 | 25.90 | -12.78 | 57.34 | 74 | -16.66 | PK | Vertical |
| 2483.50 | 52.67 | 43.80 | 5.12 | 25.90 | -12.78 | 39.89 | 54 | -14.11 | AV | Vertical |
| 2483.50 | 69.19 | 43.80 | 5.12 | 25.90 | -12.78 | 56.41 | 74 | -17.59 | PK | Horizontal |
| 2483.50 | 53.45 | 43.80 | 5.12 | 25.90 | -12.78 | 40.67 | 54 | -13.33 | AV | Horizontal |

 $Low\ measurement\ frequencies\ is\ range\ from\ 2370\ to\ 2410\ MHz,\ high\ measurement\ frequencies\ is\ range\ from\ 2473\ to\ 2500\ MHz.$

Only show the worst point data of the emissions in the frequency 2370-2410 MHz and 2473-2500 MHz.



5. CONDUCTED SPURIOUS & BAND EDGE EMISSION

5.1 REQUIREMENT

According to FCC section 15.247(d), in any 100kHz 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 20dB below that in the 100kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement.

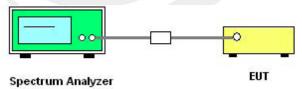
5.2 TEST PROCEDURE

| Spectrum Parameter | Setting |
|---------------------------------------|---------------------------------|
| Detector | Peak |
| Start/Stop Frequency | 30 MHz to 10th carrier harmonic |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

For Band edge

| Spectrum Parameter | Setting |
|---------------------------------------|----------------------------------|
| Detector | Peak |
| Start/Stan Fraguency | Lower Band Edge: 2370 – 2410 MHz |
| Start/Stop Frequency | Upper Band Edge: 2473 – 2500 MHz |
| RB / VB (emission in restricted band) | 100 KHz/300 KHz |
| Trace-Mode: | Max hold |

5.3 TEST SETUP



The EUT which is powered by the Battery, is coupled to the Spectrum Analyzer; the RF load attached to the EUT antenna terminal is 50 Ohm; the path loss as the factor is calibrated to correct the reading. Make the measurement with the spectrum analyzer's resolution bandwidth(RBW) = 100 kHz. In order to make an accurate measurement, set the span greater than RBW.

5.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.





5.5 TEST RESULTS

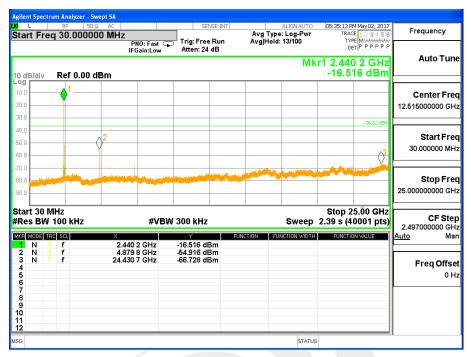
| Temperature: | 25 ℃ | Relative Humidity: | 50% |
|--------------|---------------------------|--------------------|-------|
| Pressure: | 1012 hPa | Test Voltage: | DC 3V |
| Test Mode: | TX Mode /CH01, CH12, CH24 | | |

CH 01

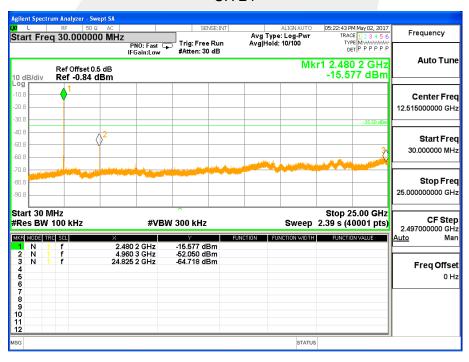




CH 12

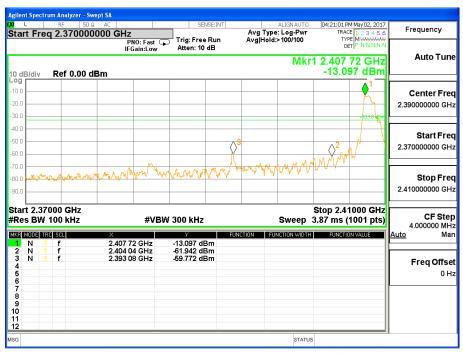


CH 24

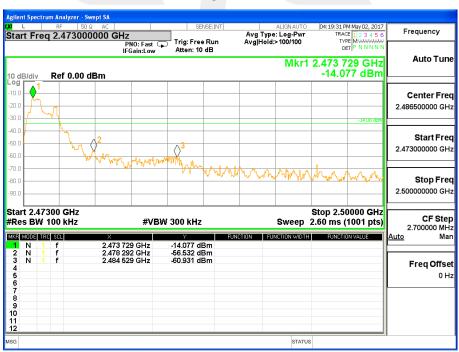




CH 01



CH 24





6. POWER SPECTRAL DENSITY TEST

6.1 APPLIED PROCEDURES / LIMIT

| FCC Part 15.247,Subpart C | | | | | | |
|---------------------------|------------------------|----------------------|--------------------------|--------|--|--|
| Section | Test Item | Limit | Frequency Range (MHz) | Result | | |
| 15.247(e) | Power Spectral Density | ≤8 dBm (RBW≥3KHz) | 2400-2483.5 | PASS | | |

6.2 TEST PROCEDURE

- 1. Set analyzer center frequency to DTS channel center frequency.
- 2. Set the span to 1.5 times the DTS channel bandwidth.
- 3. Set the RBW to: $100 \text{ kHz} \ge \text{RBW} \ge 3 \text{ kHz}$.
- 4. Set the VBW \geq 3 x RBW.
- 5. Detector = peak.
- 6. Sweep time = auto couple.
- 7. Trace mode = max hold.
- 8. Allow trace to fully stabilize.
- 9. Use the peak marker function to determine the maximum amplitude level.
- 10. If measured value exceeds limit, reduce RBW (no less than 3 kHz) and repeat.

6.3 TEST SETUP

| EUT | SPECTRUM |
|-----|----------|
| | ANALYZER |

6.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



6.5 TEST RESULTS

| Temperature: | 25 ℃ | Relative Humidity: | 60% |
|--------------|---------------------------|--------------------|-------|
| Pressure: | 1015 hPa | Test Voltage: | DC 3V |
| Test Mode: | TX Mode /CH01, CH12, CH24 | | |

| Frequency | Power Density (dBm/3kHz) | Limit (dBm/3KHz) | Result |
|-----------|-----------------------------|---------------------|--------|
| 2408 MHz | -27.654 | ≤8 | PASS |
| 2441 MHz | -27.522 | ≤8 | PASS |
| 2474 MHz | -27.485 | ≤8 | PASS |

TX CH01





TX CH12



TX CH24





7. BANDWIDTH TEST

7.1 APPLIED PROCEDURES / LIMIT

| FCC Part 15.247,Subpart C | | | | |
|--|-----------|------------------------------|-------------|------|
| Section Test Item Limit Frequency Range (MHz) Resu | | | Result | |
| 15.247(a)(2) | Bandwidth | >= 500KHz (6dB bandwidth) | 2400-2483.5 | PASS |

7.2 TEST PROCEDURE

The automatic bandwidth measurement capability of an instrument may be employed using the X dB bandwidth mode with X set to 6 dB, if the functionality described above (i.e., RBW = 100 kHz, VBW≥3RBW, peak detector with maximum hold) is implemented by the instrumentation function. When using this capability, care shall be taken so that the bandwidth measurement is not influenced by any intermediate power nulls in the fundamental emission that might be≥6 dB.

7.3 TEST SETUP



7.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.



7.5 TEST RESULTS

| Temperature: | 25 ℃ | Relative Humidity: | 60% |
|--------------|---------------------------|--------------------|-------|
| Pressure: | 1012 hPa | Test Voltage: | DC 3V |
| Test Mode: | TX Mode /CH01, CH12, CH24 | | |

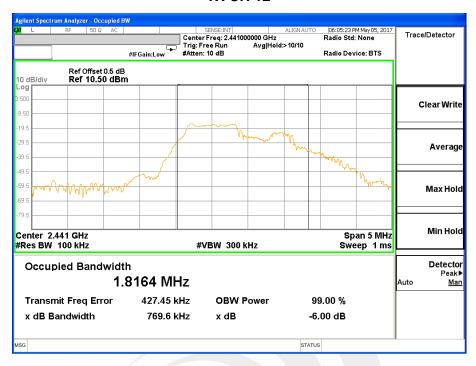
| Frequency | 6dB Bandwidth (MHz) | Channel Separation (MHz) | Result |
|-----------|------------------------|--------------------------------|--------|
| 2408 MHz | 1.103 | >=500KHz | PASS |
| 2441 MHz | 0.770 | >=500KHz | PASS |
| 2474 MHz | 0.691 | >=500KHz | PASS |

TX CH 01





TX CH 12



TX CH 24





8. PEAK OUTPUT POWER TEST

8.1 APPLIED PROCEDURES / LIMIT

| FCC Part 15.247,Subpart C | | | | |
|--|--------------|-----------------|-------------|------|
| Section Test Item Limit Frequency Range (MHz) Result | | | Result | |
| 15.247(b)(3) | Output Power | 1 watt or 30dBm | 2400-2483.5 | PASS |

8.2 TEST PROCEDURE

a. The EUT was directly connected to the Power Sensor&PC

8.3 TEST SETUP



8.4 EUT OPERATION CONDITIONS

The EUT tested system was configured as the statements of 2.3 Unless otherwise a special operating condition is specified in the follows during the testing.

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8.5 TEST RESULTS

| Temperature: | 25 ℃ | Relative Humidity: | 60% |
|--------------|---------------------------|--------------------|-------|
| Pressure: | 1012 hPa | Test Voltage: | DC 3V |
| Test Mode: | TX Mode /CH01, CH12, CH24 | | |

| TX Mode | | | | |
|--------------|-----------|------------------------|-----------|-------|
| Test Channel | Frequency | Conducted Output Power | | LIMIT |
| Test Charmer | (MHz) | Peak (dBm) | AVG (dBm) | dBm |
| CH01 | 2408 | -13.78 | -15.75 | 30 |
| CH12 | 2441 | -14.06 | -16.12 | 30 |
| CH24 | 2474 | -13.83 | -15.85 | 30 |





9. ANTENNA REQUIREMENT

9.1 STANDARD REQUIREMENT

15.203 requirement: For intentional device, 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.

9.2 EUT ANTENNA

The EUT antenna is Internal PCB Antenna. It comply with the standard requirement.





Radiated Measurement Photos





****END OF THE REPORT***