FCC TEST REPORT

For

General Procurement, Inc

Hyundai Koral 7W4

Model No.: Koral_7W4

Prepared For : General Procurement, Inc

Address : 800 E Dyer Road, Santa Ana, California, United States 92705

Prepared By : Shenzhen Anbotek Compliance Laboratory Limited

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Report Number : SZAWW181025005-01

Date of Receipt : Oct. 10, 2018

Date of Test : Oct. 10~Dec. 07, 2018

Date of Report : Dec. 07, 2018



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TEST REPORT

Applicant : General Procurement, Inc

Manufacturer : Shen Zhen Cheng Fong Digital-Tech Limited

Product Name : Hyundai Koral 7W4

Model No. : Koral 7W4

Trade Mark : Hyundai

Rating(s) : Input: DC 5V, 2A(Via adapter Input: AC 100~240V, 50/60Hz, Max: 0.35A;

with DC 3.7V, 2400mAh Battery inside)

Test Standard(s) : FCC Part15 Subpart C 2018, Section 15.247

Test Method(s) : **ANSI C63.10: 2013**

The device described above is tested by Shenzhen Anbotek Compliance Laboratory Limited to determine the maximum emission levels emanating from the device and the severe levels of the device can endure and its performance criterion. The measurement results are contained in this test report and Shenzhen Anbotek Compliance Laboratory Limited is assumed full of responsibility for the accuracy and completeness of these measurements. Also, this report shows that the EUT (Equipment Under Test) is technically compliant with the FCC Part 15 Subpart C requirements.

This report applies to above tested sample only and shall not be reproduced in part without written approval of Shenzhen Anbotek Compliance Laboratory Limited.

| Date of Test | | Oct. 10~Dec. | 07, 2018 | |
|------------------------------|--------------------|------------------|-------------|-----------|
| Anbotek Product Safety | ek Anbotek Anbotek | olivay | arg Annotes | |
| Prepared by | 100 IV | Pr. | An- And | de You |
| * Approved | Anbotek Anbote | (Engineer / O | liay Yang) | |
| nbotek Anborn And notek | Anboten Anbo | | | |
| | | Snavy | Meng | |
| Daviowar | Pup. Vulp. | 200 P. | | |
| | nbotek Anbo | (Supervisor / Sr | nowy Meng) | jotek Anb |
| | | | | |
| | Anbotek Anbote | Sally Z | houng water | |
| Approved & Authorized Signer | | hotek Anbot | SI V AND | |
| Anbotek Anbotek Anbo | tek Anbotek A | (Manager / Sa | lly Zhang) | k Anbotek |

1. General Information

1.1. Client Information

| Applicant | : | General Procurement, Inc |
|--------------|---|---|
| Address | : | 800 E Dyer Road , Santa Ana, California, United States 92705 |
| Manufacturer | | Shen Zhen Cheng Fong Digital-Tech Limited |
| Address | • | Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China |
| Factory | : | Shen Zhen Cheng Fong Digital-Tech Limited |
| Address | : | Building A, ChengFong Industrial Area, Huaxing road, Dalang, Longhua, Shen Zhen, China |

1.2. Description of Device (EUT)

| 60.5 | .707.70 | | VIII. |
|-------------------|--|---|--|
| Product Name | : | Hyundai Koral_7W4 | Anbotek Anbotek Anbotek Anbo |
| Model No. | : | Koral_7W4 | k Anbotek Anbotek Anbotek Ar |
| Trade Mark | : | Hyundai | oter Anbotek Anbotek Anbotek |
| Test Power Supply | : | AC 240V, 60Hz for adapter/ AC | 120V, 60Hz for adapter/ DC 3.7V Battery inside |
| Test Sample No. | : | S1(Normal Sample), S2(Engineer | ring Sample) |
| | | Operation Frequency: | 2402MHz~2480MHz |
| | | Transfer Rate: | 1/2/3 Mbits/s |
| Product | | Number of Channel: | 79 Channels |
| Description | • | Modulation Type: | GFSK, π/4-DQPSK, 8-DPSK |
| | | Antenna Type: | PIFA Antenna |
| | | Antenna Gain(Peak): | 2.5 dBi |
| | Model No. Trade Mark Test Power Supply Test Sample No. Product | Model No. : Trade Mark : Test Power Supply : Test Sample No. : | Model No. : Koral_7W4 Trade Mark : Hyundai Test Power Supply : AC 240V, 60Hz for adapter/ AC Test Sample No. : S1(Normal Sample), S2(Engineer Operation Frequency: Transfer Rate: Number of Channel: Modulation Type: Antenna Type: |

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

2) This report is for BDR+EDR module.

1.3. Auxiliary Equipment Used During Test

| Adapter | : | Manufacturer: Shenzhen Jihongda Power Co., Ltd. | Anbotek A | upoto |
|---------|---|---|-----------|-------|
| | | M/N: JHD-AP013U-050200BB-B | nbotek | Aupor |
| | | Input: 100-240V~ 50/60Hz, 0.35A | | |
| | | Output: DC 5V, 2000mA | And | dna |

1.4. Description of Test Modes

To investigate the maximum EMI emission characteristics generates from EUT, the test system was pre-scanning tested base on the consideration of following EUT operation mode or test configuration mode which possible have effect on EMI emission level. Each of these EUT operation mode(s) or test configuration mode(s) mentioned above was evaluated respectively.

| Pretest Mode | Description | | | | |
|--------------|-----------------------------------|------|--|--|--|
| Mode 1 | CH00 CH00 | · el | | | |
| Mode 2 | CH39 CH39 Anbotek Anbotek Anbotek | ,00 | | | |
| Mode 3 | Anbotek Milotek Anbotek Anbotek | Yupe | | | |
| Mode 4 | Keeping TX+ Charging Mode | P. | | | |

| | For Conducted Emission |
|-----------------|---------------------------|
| Final Test Mode | Description |
| Mode 4 | Keeping TX+ Charging Mode |

| | For Radiated Emission |
|-----------------|---------------------------|
| Final Test Mode | Description |
| Mode 1 | CH00 |
| Mode 2 | CH39 Andrew Andrew |
| Mode 3 | CH78 |
| Mode 4 | Keeping TX+ Charging Mode |

Note:

- (1) The measurements are performed at the highest, middle, lowest available channels.
- (2) The data rate was set in 1Mbps for radiated emission due to the highest RF output power.

FCC ID: 2AIOHHT0704W08

1.5. List of channels

| Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) | Channel | Freq. (MHz) |
|-----------|-------------|---------|-------------|-----------|-------------|---------|-------------|---------|-------------|
| 00 | 2402 | Anb 17 | 2419 | 34 | 2436 | 51 | 2453 | 68 | 2470 |
| 01 | 2403 | 18 | 2420 | 35 | 2437 | 52 | 2454 | 69 | 2471 |
| 02 | 2404 | 19 | 2421 | 36 | 2438 | 53 oten | 2455 | 70 | 2472 |
| 03 | 2405 | 20 | 2422 | 37 | 2439 | 54 | 2456 | 71 | 2473 |
| 04 | 2406 | 21 | 2423 | 38 | 2440 | 55 | 2457 | 72 | 2474 |
| 05 | 2407 | 22 | 2424 | 39 | 2441 | 56 | 2458 | 73 | 2475 |
| 05 | 2408 | 23 | 2425 | 40 | 2442 | 57 | 2459 | 74 | 2476 |
| Let 07 AT | 2409 | 24 | 2426 | 41 Anb | 2443 | 58 | 2460 | 75 | 2477 |
| 08 | 2410 | 25 | 2427 | 42 N | 2444 | 59 | 2461 | 76 | 2478 |
| 09 | 2411 | 26 | 2428 | 43 | 2445 | 60 | 2462 | ote*77 | 2479 |
| 10 | 2412 | 27 📉 | 2429 | 44 | 2446 | 61 mbo | 2463 | 78 | 2480 |
| p.I.Pole | 2413 | 28 | 2430 | 45 | 2447 | 62 | 2464 | | |
| 12 | 2414 | 29 | 2431 | 46 | 2448 | 63 | 2465 | | |
| 13 | 2415 | 30 | 2432 | 47,,,,,,, | 2449 | 64 | 2466 | | |
| 14 | 2416 | 31 | 2433 | 48 | 2450 | 65 | 2467 | 5,00 | |
| 15 | 2417 | 32 | 2434 | 49 | 2451 | 66 | 2468 | | |
| 16 | 2418 | 33 | 2435 | 50 | 2452 | 67 | 2469 | | |

Note:

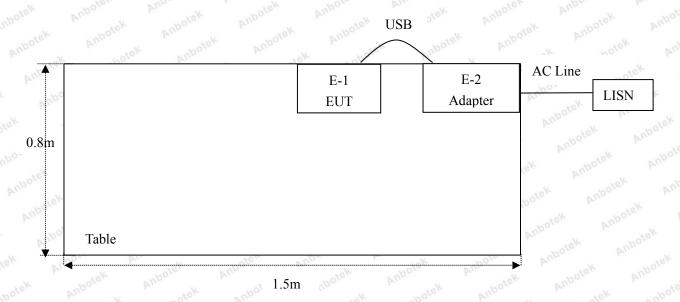
- 1. The engineering test program was provided and the EUT was programmed to be in continuously transmitting mode.
- 2. EUT built-in battery-powered, fully-charged battery use of the test battery.

Code:AB-RF-05-a

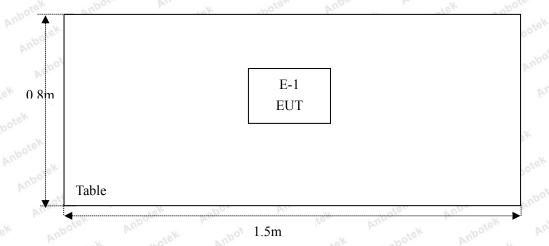
FCC ID: 2AIOHHT0704W08

1.6. Description Of Test Setup

CE



RE





1.7. Test Equipment List

| Item | Equipment | Manufacturer | Model No. | Serial No. | Last Cal. | Cal. Interval |
|----------------------|---------------------------------------|-------------------------|----------------|---------------|---------------|---------------|
| otek 1. nbotek | L.I.S.N. Artificial Mains Network | Rohde & Schwarz | ENV216 | 100055 | Nov. 05, 2018 | 1 Year |
| 2.00 | EMI Test Receiver | Rohde & Schwarz | ESPI3 | 101604 | Nov. 05, 2018 | 1 Year |
| 3. | RF Switching Unit | Compliance Direction | RSU-M2 | 38303 | Nov. 05, 2018 | 1 Year |
| 4. | Spectrum Analysis | Agilent | E4407B | US39390582 | Nov. 05, 2018 | 1 Year |
| 5. | MAX Spectrum Analysis | Agilent | N9020A | MY51170037 | Nov. 05, 2018 | 1 Year |
| 6. | Preamplifier | SKET Electronic | BK1G18G30D | KD17503 | Nov. 05, 2018 | 1 Year |
| 7. | Double Ridged Horn Antenna | Instruments corporation | GTH-0118 | 351600 | Nov. 19, 2018 | 1 Year |
| 8. | Bilog Broadband Antenna | Schwarzbeck | VULB9163 | VULB 9163-289 | Nov. 19, 2018 | 1 Year |
| 9. | Loop Antenna | Schwarzbeck | FMZB1519B | 00053 | Nov. 19, 2018 | 1 Year |
| 10. | Horn Antenna | A-INFO | LB-180400-KF | J211060628 | Nov. 20, 2018 | 1 Year |
| MI. | Pre-amplifier | SONOMA | 310N | 186860 | Nov. 05, 2018 | 1 Year |
| 12. | EMI Test Software EZ-EMC | SHURPLE | otek N/A Anbot | N/A | N/A | N/A |
| 13. | RF Test Control System | YIHENG | YH3000 | 2017430 | Nov. 05, 2018 | 1 Year |
| 14. | Power Sensor | DAER | RPR3006W | 15I00041SN045 | Nov. 05, 2018 | 1 Year |
| 15. | Power Sensor | DAER | RPR3006W | 15I00041SN046 | Nov. 05, 2018 | 1 Year |
| 16. | MXA Spectrum Analysis | Agilent | N9020A | MY51170037 | Nov. 05, 2018 | 1 Year |
| 17. | MXG RF Vector Signal Generator | Agilent | N5182A | MY48180656 | Nov. 05, 2018 | 1 Year |
| 18. | Signal Generator | Agilent | E4421B | MY41000743 | Nov. 05, 2018 | 1 Year |
| 19. | DC Power Supply | IVYTECH | IV3605 | 1804D360510 | Apr. 02, 2018 | 1 Year |
| 20. | Constant Temperature Humidity Chamber | ZHONGJIAN | ZJ-KHWS80B | N/A | Nov. 01, 2018 | 1 Year |
| | -W WO!/0 | Dille | 184 | D. D. | 485 | 6400 |

1.8. Description of Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

FCC-Registration No.: 184111

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registed and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Registration No. 184111, July 31, 2017.

ISED-Registration No.: 8058A-1

Shenzhen Anbotek Compliance Laboratory Limited, EMC Laboratory has been registered and fully described in a report filed with the (ISED) Innovation, Science and Economic Development Canada. The acceptance letter from the ISED is maintained in our files. Registration 8058A-1, June 13, 2016.

Test Location

Shenzhen Anbotek Compliance Laboratory Limited.

at 1/F, Building D, Sogood Science and Technology Park, Sanwei community, Hangcheng Street, Bao'an District, Shenzhen, Guangdong, China.518102



2. Summary of Test Results

| Standard Section | Test Item | Result |
|-------------------------|--------------------------------|--------|
| 15.203/15.247(c) | Antenna Requirement | PASS |
| 15.207 | Conducted Emission | PASS |
| 15.205/15.209 | Spurious Emission | PASS |
| 15.247(b)(1) | Conducted Peak Output Power | PASS |
| 15.247(a)(1) | 20dB Occupied Bandwidth | PASS |
| 15.247(a)(1) | Carrier Frequencies Separation | PASS |
| 15.247(a)(1) | Hopping Channel Number | PASS |
| 15.247(a)(1) | Dwell Time | PASS |
| 15.247(d) | Band Edge | PASS |



3. Conducted Emission Test

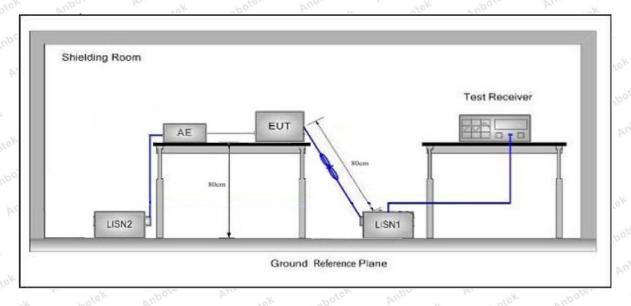
3.1. Test Standard and Limit

| Test Standard | FCC Part15 Section 15.20 | 7 Anbore Ambotek | Anbotek Anbo stek |
|---------------|--------------------------|------------------|---------------------|
| | F | Maximum RF | Line Voltage (dBuV) |
| | Frequency | Quasi-peak Level | Average Level |
| Test Limit | 150kHz~500kHz | 66 ~ 56 * | 56 ~ 46 * |
| | 500kHz~5MHz | 56 | 46 |
| | 5MHz~30MHz | 60 | 50 |

Remark: (1) *Decreasing linearly with logarithm of the frequency.

(2) The lower limit shall apply at the transition frequency.

3.2. Test Setup



3.3. Test Procedure

The EUT system is connected to the power mains through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm coupling impedance for the EUT system. Please refer the block diagram of the test setup and photographs. Both sides of AC line are checked to find out the maximum conducted emission. In order to find the maximum emission levels, the relative positions of equipment and all of the interface cables shall be changed according to FCC ANSI C63.10-2013 on Conducted Emission Measurement.

The bandwidth of test receiver (ESCI) set at 9kHz.

The frequency range from 150kHz to 30MHz is checked.

3.4. Test Data

Please to see the following pages.

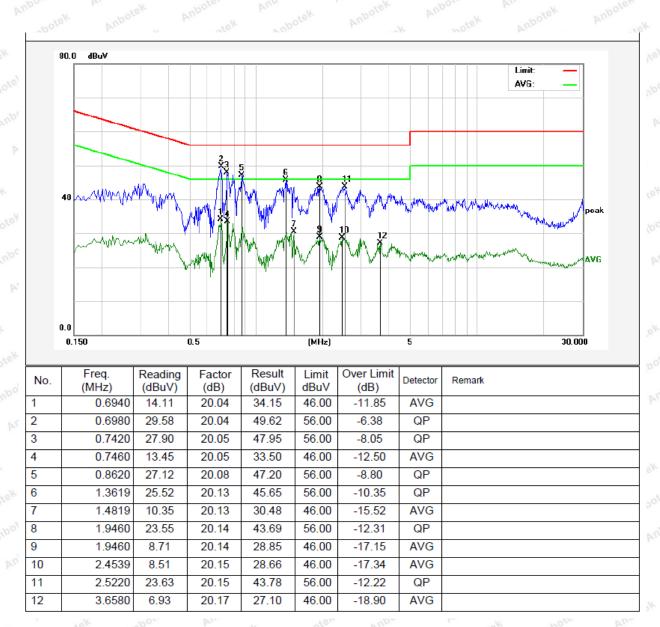


Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode
Test Specification: AC 240V, 60Hz for adapter

Comment: Live Line

Tem.: 24.1°C Hum.: 40%



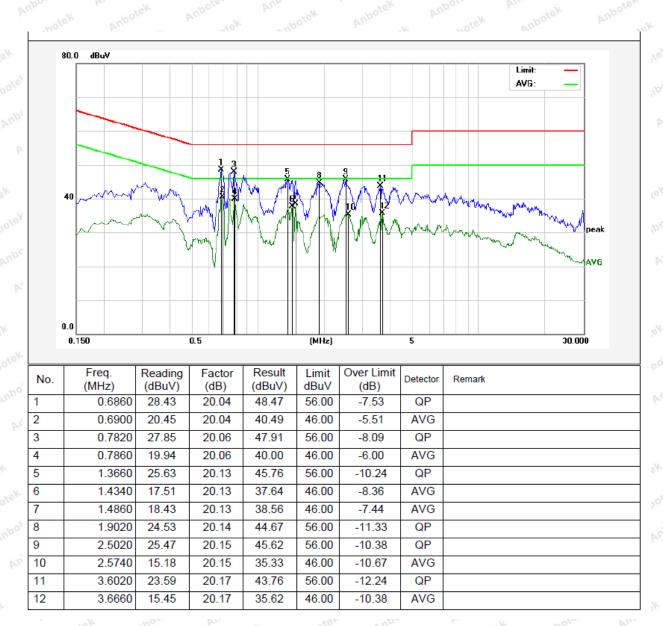


Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode
Test Specification: AC 240V, 60Hz for adapter

Comment: Neutral Line

Tem.: 24.1°C Hum.: 40%

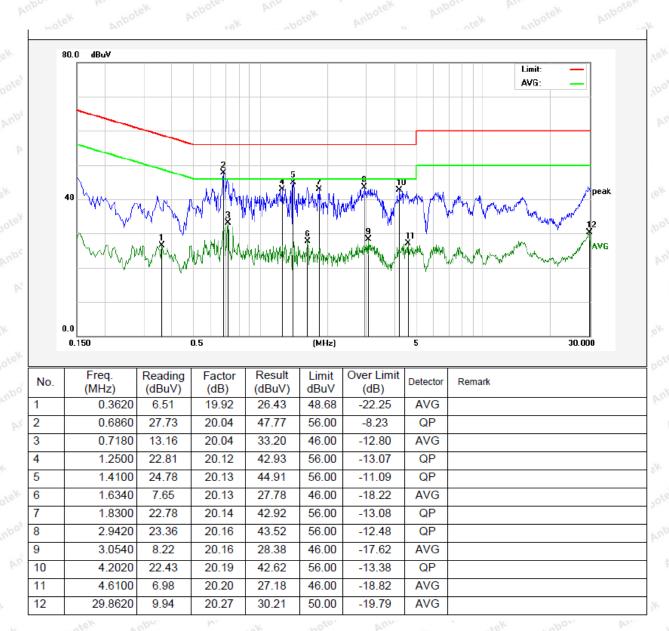


Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode
Test Specification: AC 120V, 60Hz for adapter

Comment: Live Line

Tem.: 24.1 °C Hum.: 40%



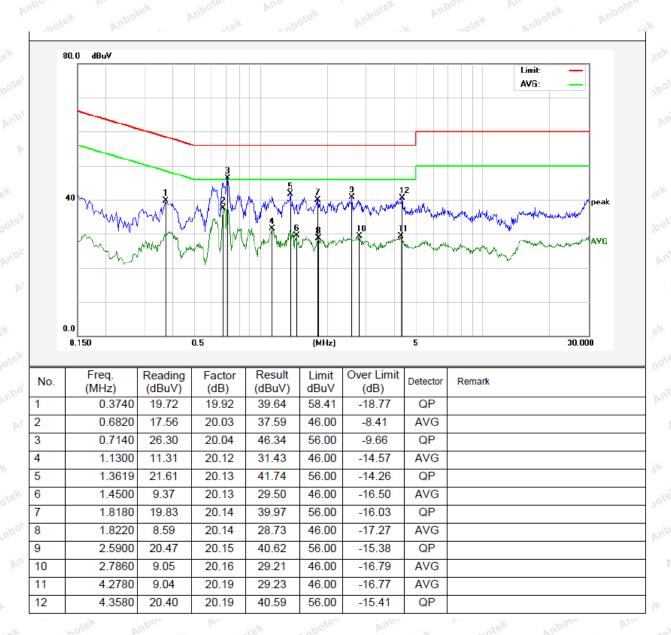


Test Site: 1# Shielded Room

Operating Condition: Keeping TX+ Charging Mode
Test Specification: AC 120V, 60Hz for adapter

Comment: Neutral Line

Tem.: 24.1℃ Hum.: 40%



4. Radiation Spurious Emission and Band Edge

4.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.20 | 09 and 15.205 | Anthotok | Anbotek A | 'upo stek |
|---------------|----------------------------|----------------------------------|-------------------|------------|--------------------------|
| 7 | Frequency (MHz) | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measurement distance (m) |
| | 0.009MHz~0.490MHz | 2400/F(kHz) | obotek - Anbo | o Pur | 300 000 |
| | 0.490MHz-1.705MHz | 24000/F(kHz) | Anbotek Ar | Pore VIII | and 30 And |
| 5 | 1.705MHz-30MHz | 30 | Anbotek | Anbor P | 30 |
| Test Limit | 30MHz~88MHz | 100 | 40.0 | Quasi-peak | 3.ek |
| | 88MHz~216MHz | 150 | 43.5 | Quasi-peak | 3 _{botek} |
| | 216MHz~960MHz | 200 | 46.0 | Quasi-peak | kek 3 sabotek |
| | 960MHz~1000MHz | 500 | 54.0 | Quasi-peak | atek 3 nobe |
| ٠ | Above 1000MHz | 500 | 54.0 | Average | 3 |
| | Above 1000MHZ | botek - Anbot | 74.0 | Peak | 3 |

Remark:

- (1) The lower limit shall apply at the transition frequency.
- (2) 15.35(b), Unless otherwise specified, the limit on peak radio frequency emissions is 20dB above the maximum permitted average emission limit applicable to the equipment under test. This peak limit applies to the total peak emission level radiated by the device.

4.2. Test Setup

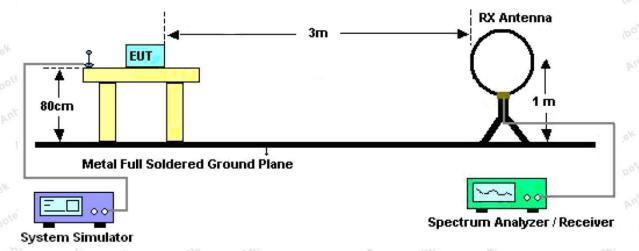


Figure 1. Below 30MHz

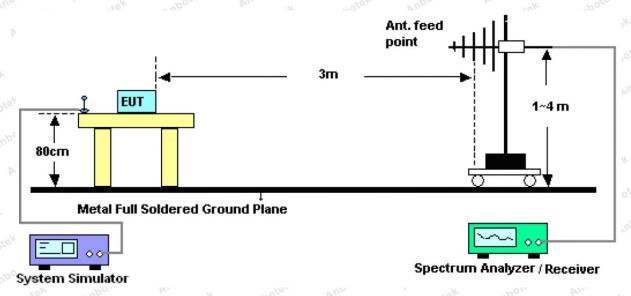


Figure 2. 30MHz to 1GHz

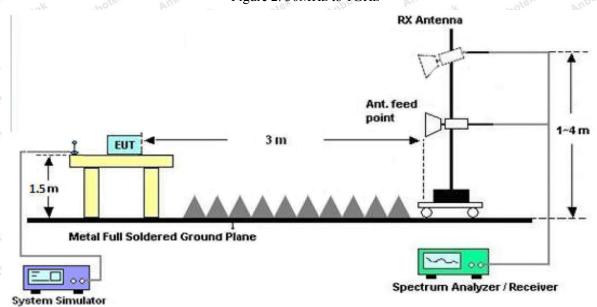


Figure 3. Above 1 GHz

4.3. Test Procedure

For below 1GHz: The EUT is placed on a turntable, which is 0.8m above the ground plane.

For above 1GHz: The EUT is placed on a turntable, which is 1.5m above the ground plane.

The turn table can rotate 360 degrees to determine the position of the maximum emission level. The EUT is set 3 meters away from the receiving antenna which is mounted on a antenna tower. The antenna can be moved up and down from 1 to 4 meters to find out the maximum emission level. Rotated the EUT through three orthogonal axes to determine the maximum emissions, both horizontal and vertical polarization of the antenna are set on test. The EUT is tested in 9*6*6 Chamber. The device is evaluated in xyz orientation.

For the radiated emission test above 1GHz:

Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying

aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.

For 9kHz to 150kHz, Set the spectrum analyzer as:

RBW = 200Hz, VBW = 1kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 150kHz to 30MHz, Set the spectrum analyzer as:

RBW = 9KHz, VBW = 30kHz, Detector= Quasi-Peak, Trace mode= Max hold, Sweep- auto couple.

For 30MHz to 1000MHz, Set the spectrum analyzer as:

RBW = 100kHz, VBW = 300kHz, Detector = Quasi-Peak, Trace mode = Max hold, Sweep- auto couple.

For above 1GHz, Set the spectrum analyzer as:

RBW =1MHz, VBW =1MHz, Detector= Peak, Trace mode= Max hold, Sweep- auto couple.

RBW =1MHz, VBW =10Hz, Detector= Average, Trace mode= Max hold, Sweep- auto couple.

4.4. Test Data

PASS

During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation Middle channel which is the worst case, only the worst case is recorded in the report.

The test results of 9kHz-30MHz was attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Note: The data is in TX only mode, and this is the worst mode.

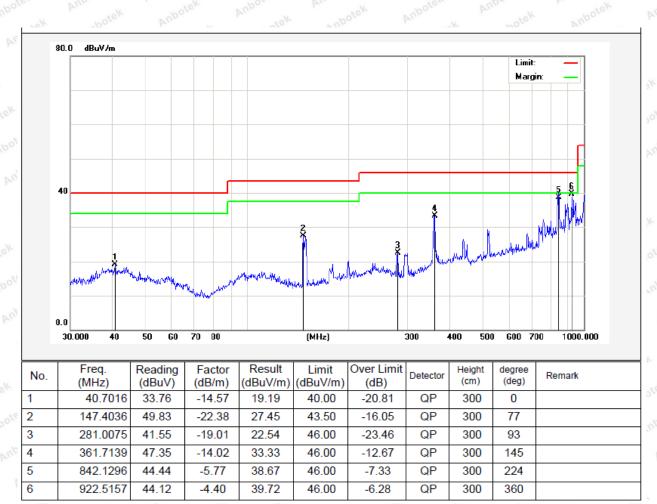


Test Results (30~1000MHz)

Job No.: SZAWW181025005-01 Temp.(°C)/Hum.(%RH): 24.6°C/53%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Polarization: Horizontal





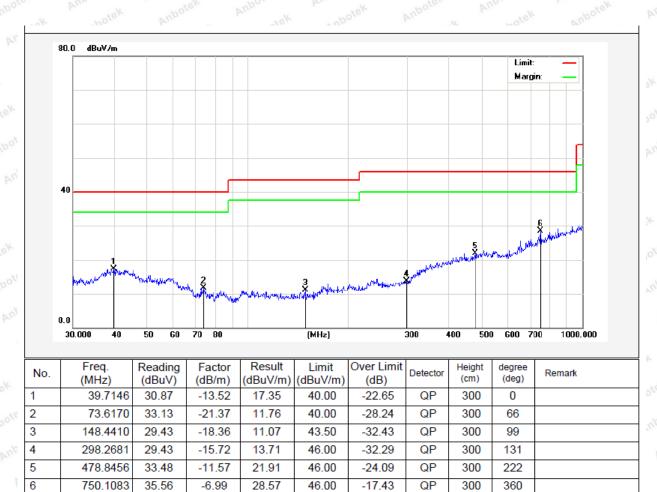
FCC ID: 2AIOHHT0704W08

Test Results (30~1000MHz)

Job No.: SZAWW181025005-01 Temp.(°C)/Hum.(%RH): 24.6°C/53%RH

Standard: FCC PART 15C Power Source: DC 3.7V Battery inside

Test Mode: Mode 2 Polarization: Vertical





FCC ID: 2AIOHHT0704W08

Test Results (1GHz-25GHz)

| Test Mode: 0 | CH00 | | | Test | channel: Lowe | st | | |
|-----------------|----------------------|-----------------------------|-----------------|--------------------------|----------------|-------------------|-----------------|--------------------|
| | | | | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4804.00 | 38.22 | 34.04 | 6.58 | 34.09 | 44.75 | 74.00 | -29.25 | boteV |
| 7206.00 | 32.43 | 37.11 | 7.73 | 34.50 | 42.77 | 74.00 | -31.23 | Vap |
| 9608.00 | 32.01 | 39.31 | 9.23 | 34.79 | 45.76 | 74.00 | -28.24 | V |
| 12010.00 | * | stek v | abotek p | upor | An | 74.00 | Aupo | V |
| 14412.00 | * Ant | Yek | nbotek | Anboten | Ann | 74.00 | Anbor | v V |
| 4804.00 | 42.69 | 34.04 | 6.58 | 34.09 | 49.22 | 74.00 | -24.78 | H |
| 7206.00 | 34.27 | 37.11 | 7.73 | 34.50 | 44.61 | 74.00 | -29.39 | H |
| 9608.00 | 31.52 | 39.31 | 9.23 | 34.79 | 45.27 | 74.00 | -28.73 | Anboto H |
| 12010.00 | * Anbote | Anbo | rek Vi | botek | Anboten | 74.00 | nbotek | HA |
| 14412.00 | cek * Amb | YOK A | 100rg P | botek | Anborek | 74.00 | anbotek | Har |
| | | | A | verage Valu | e | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4804.00 | 26.86 | 34.04 | 6.58 | 34.09 | 33.39 | 54.00 | -20.61 | V |
| 7206.00 | 21.02 | 37.11 | 7.73 | 34.50 | 31.36 | 54.00 | -22.64 | V |
| 9608.00 | 20.04 | 39.31 | 9.23 | 34.79 | 33.79 | 54.00 | -20.21 | V |
| 12010.00 | botek * A | Ipo. | anbotek | Anbotes | Ambo | 54.00 | Aupor | V |
| 14412.00 | Anbotek | Aupor | An botek | Anboli | Ambo | 54.00 | lek Ant | V |
| 4804.00 | 31.19 | 34.04 | 6.58 | 34.09 | 37.72 | 54.00 | -16.28 | Yupoter. |
| 7206.00 | 23.25 | 37.11 | 7.73 | 34.50 | 33.59 | 54.00 | -20.41 | PAH. |
| 9608.00 | 19.84 | 39.31 | 9.23 | 34.79 | 33.59 | 54.00 | -20.41 | Ηn |
| 12010.00 | * | potek | Yupore. | Andrek | Anbotek | 54.00 | abote | Н |
| 14412.00 | * | botek | Aupolei | Pun | k anbote | 54.00 | ~/r ~ | ote ^K H |



Test Results (1GHz-25GHz)

| Test Mode: 0 | CH39 | | | Test | channel: Midd | le | | | |
|-----------------|---|-----------------------------|-----------------|--------------------------|----------------|----------------|-----------------|--------------------|--|
| | | | | Peak Value | ak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | |
| 4882.00 | 37.25 | 34.38 | 6.69 | 34.09 | 44.23 | 74.00 | -29.77 | poteV | |
| 7323.00 | 31.79 | 37.22 | 7.78 | 34.53 | 42.26 | 74.00 | -31.74 | Vok | |
| 9764.00 | 31.44 | 39.46 | 9.35 | 34.80 | 45.45 | 74.00 | -28.55 | V | |
| 12205.00 | *************************************** | tek | abotek p | upote | An potek | 74.00 | Anbo | V | |
| 14646.00 | ore * And | otek | Anbotek | Aupoter | An hotek | 74.00 | Anbor | V V | |
| 4882.00 | 41.53 | 34.38 | 6.69 | 34.09 | 48.51 | 74.00 | -25.49 | H | |
| 7323.00 | 33.55 | 37.22 | 7.78 | 34.53 | 44.02 | 74.00 | -29.98 | H | |
| 9764.00 | 30.85 | 39.46 | 9.35 | 34.80 | 44.86 | 74.00 | -29.14 | Anbot H | |
| 12205.00 | * * Anbote | Anbo | 18K | obotek | Vupoje, | 74.00 | Anbotek | HA | |
| 14646.00 | rek * Anb | sex bi | log tok | nbotek | Aupoten | 74.00 | Anbotek | H× | |
| | | | A | verage Valu | e | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. | |
| 4882.00 | 26.09 | 34.38 | 6.69 | 34.09 | 33.07 | 54.00 | -20.93 | V | |
| 7323.00 | 20.50 | 37.22 | 7.78 | 34.53 | 30.97 | 54.00 | -23.03 | V | |
| 9764.00 | 19.58 | 39.46 | 9.35 | 34.80 | 33.59 | 54.00 | -20.41 | V | |
| 12205.00 | potek * A | lpo. | A botek | Anbotek | Amba | 54.00 | Anbor | V | |
| 14646.00 | Anbots* | Anbor | Abotek Abotek | Anbote | Anbo | 54.00 | lek but | V | |
| 4882.00 | 30.31 | 34.38 | 6.69 | 34.09 | 37.29 | 54.00 | -16.71 | H du | |
| 7323.00 | 22.67 | 37.22 | 7.78 | 34.53 | 33.14 | 54.00 | -20.86 | MH | |
| 9764.00 | 19.30 | 39.46 | 9.35 | 34.80 | 33.31 | 54.00 | -20.69 | Ηn | |
| 12205.00 | otek * | potek | Aupor | Andotek | Anbotek | 54.00 | nbote | Н | |
| 14646.00 | * | nbotek | Aupote | Vu. | k hypote | 54.00 | ek M | ote ^K H | |



Test Results (1GHz-25GHz)

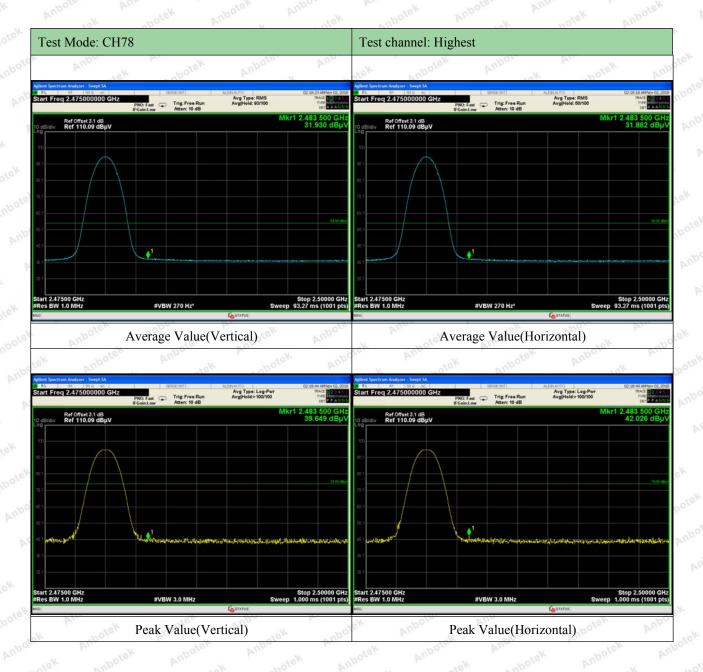
| Test Mode: 0 | CH78 | | | Test | channel: Highe | est | | |
|-----------------|----------------------|-----------------------------|-----------------|--------------------------|----------------|----------------|-----------------|--------------------|
| | | | | Peak Value | | | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4960.00 | 36.47 | 34.72 | 6.79 | 34.09 | 43.89 | 74.00 | -30.11 | boteV |
| 7440.00 | 31.28 | 37.34 | 7.82 | 34.57 | 41.87 | 74.00 | -32.13 | vap Nek |
| 9920.00 | 30.97 | 39.62 | 9.46 | 34.81 | 45.24 | 74.00 | -28.76 | V |
| 12400.00 | * | tek | abotek p | upote | Pur Potek | 74.00 | Aupo. | V |
| 14880.00 | * And | atek . | nbotek | Aupoten | Aur Potek | 74.00 | Anbor | V |
| 4960.00 | 40.58 | 34.72 | 6.79 | 34.09 | 48.00 | 74.00 | -26.00 | Н |
| 7440.00 | 32.96 | 37.34 | 7.82 | 34.57 | 43.55 | 74.00 | -30.45 | H |
| 9920.00 | 30.32 | 39.62 | 9.46 | 34.81 | 44.59 | 74.00 | -29.41 | Anbore H |
| 12400.00 | * Anbote | Aupo | P. | botek | Anboten | 74.00 | anbotek | HA |
| 14880.00 | tek * Anb | tek A | 100r P | botek | Anboten | 74.00 | anbotek | $H^{p_{ij}}$ |
| | | | A | verage Valu | e | - W | | |
| Frequency (MHz) | Read Level (dBuV) | Antenna Factor (dB/m) | Cable Loss (dB) | Preamp Factor (dB) | Level (dBuV/m) | Limit (dBuV/m) | Over Limit (dB) | Pol. |
| 4960.00 | 25.50 | 34.72 | 6.79 | 34.09 | 32.92 | 54.00 | -21.08 | Vote |
| 7440.00 | 20.10 | 37.34 | 7.82 | 34.57 | 30.69 | 54.00 | -23.31 | V |
| 9920.00 | 19.22 | 39.62 | 9.46 | 34.81 | 33.49 | 54.00 | -20.51 | V |
| 12400.00 | botek * A | 100, | Potek | Anbotes | Aupo | 54.00 | Anbot | V |
| 14880.00 | Anbot&k | Aupor | An botek | Anbote | Ambo | 54.00 | lek Ant | V |
| 4960.00 | 29.65 | 34.72 | 6.79 | 34.09 | 37.07 | 54.00 | -16.93 | Anboten |
| 7440.00 | 22.22 | 37.34 | 7.82 | 34.57 | 32.81 | 54.00 | -21.19 | ATH H |
| 9920.00 | 18.89 | 39.62 | 9.46 | 34.81 | 33.16 | 54.00 | -20.84 | H_{Up} |
| 12400.00 | stek * | potek | Aupore | And motek | Anbotek | 54.00 | All | ч Н р |
| 14880.00 | * | Anbotek | Aupoter | Anv | Anbote | 54.00 | lek "up | ote ^K H |
| | | | | | | | | |

Remark

- 1. During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level =Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor
- 3. "*" means the test results were attenuated more than 20dB below the permissible limits, so the results don't record in the report.

Radiated Band Edge:





Remark:

- 1. During the test, pre-scan the GFSK, $\pi/4$ QPSK, 8DPSK modulation, and found the GFSK modulation is worse case, the report only record this mode.
- 2. Level = Receiver Read level + Antenna Factor + Cable Loss Preamplifier Factor

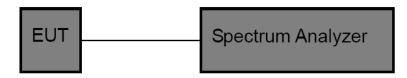


5. Maximum Peak Output Power Test

5.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.247 (b)(3) | Andwork | Anbotek | Anbor An |
|---------------|------------------------------------|----------|---------|----------|
| Test Limit | 1W or 125mW | ak hotek | Anbotek | Aupor b |

5.2. Test Setup



5.3. Test Procedure

- 1. The EUT was directly connected to the spectrum analyzer and antenna output port as show in the block diagram above,
- 2. Spectrum Setting:

RBW > the 20 dB bandwidth of the emission being measured

Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel

 $VBW \ge RBW$

Sweep = auto

Detector function = peak

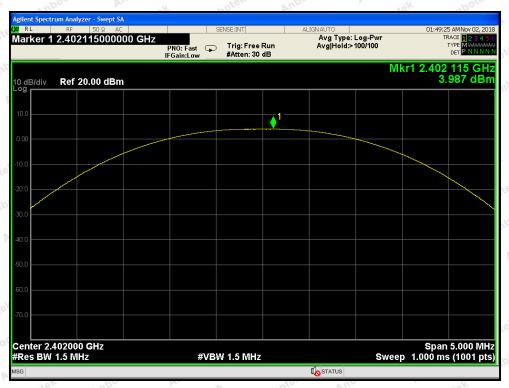
 $Trace = \max hold$

5.4. Test Data

| Test Item | : | Max. peak output power | Test Mode : | CH Low ~ CH High |
|--------------|---|------------------------|---------------|------------------|
| Test Voltage | : | DC 3.7V Battery inside | Temperature : | 24℃ |
| Test Result | : | PASS | Humidity : | 55%RH |

| Channel Frequency (MHz) | Peak Power output (dBm) | Limit (dBm) | Results | Modulation |
|-------------------------|-------------------------|----------------|---------|------------|
| 2402 | 3.987 | 20.96 | PASS | BDR |
| 2441 | 4.535 | 20.96 | PASS | BDR |
| 2480 | 3.742 | 20.96 | PASS | BDR |
| 2402 | 3.361 | 20.96 | PASS | EDR |
| 2441 | 3.845 | 20.96 | PASS | EDR |
| 2480 | 2.920 | 20.96 | PASS | EDR |

Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.



Test Mode: BDR---Low



Test Mode: BDR---Middle



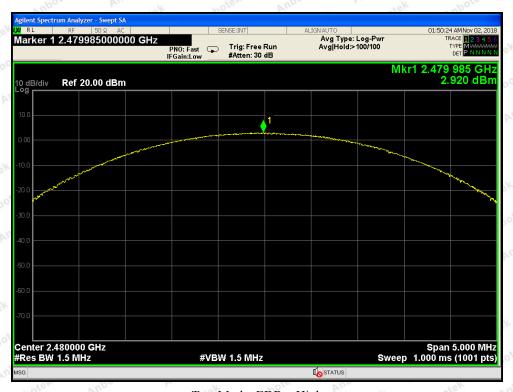
Test Mode: BDR---High



Test Mode: EDR---Low



Test Mode: EDR---Middle



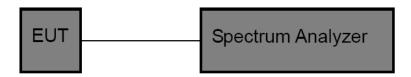
Test Mode: EDR---High

6. 20DB Occupy Bandwidth Test

6.1. Test Standard

| Test Standard | FCC Part15 C Section 15.247 (a)(1) | | | | p. |
|---------------|------------------------------------|--|--|--|----|
|---------------|------------------------------------|--|--|--|----|

6.2. Test Setup



6.3. Test Procedure

Using the following spectrum analyzer settings:

- 1. Span= approximately 2 to 3 times the 20dB bandwidth, centered on a hopping channel.
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

6.4. Test Data

Test Item : 20dB BW Test Mode : CH Low ~ CH High

Test Voltage : DC 3.7V Battery inside Temperature : 24°C

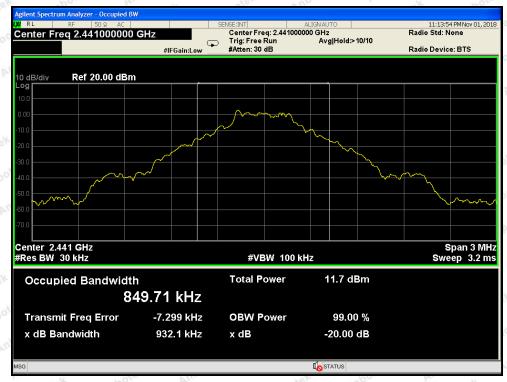
Test Result : PASS Humidity : 55%RH

| - M | OV | 70. | 10. 114 |
|---------|----------------|-------------------|-----------------|
| Channel | Frequency(MHz) | 20dB Down BW(kHz) | Modulation Mode |
| Low | 2402 | 932.7 | BDR |
| Middle | 2441 | 932.1 | BDR |
| High | 2480 | 931.3 | BDR |
| Low | 2402 | 1264 | EDR |
| Middle | 2441 | 1266 | EDR |
| High | 2480 | 1265 | EDR |

Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of (8DPSK) is attached in the following pages.



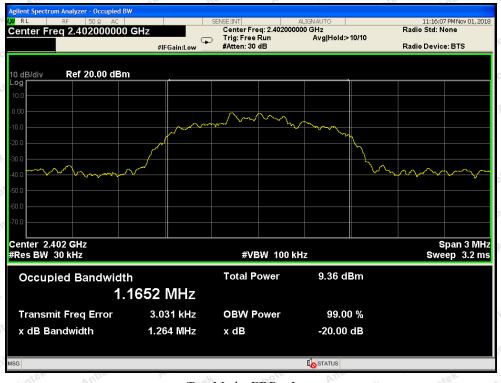
Test Mode: BDR---Low



Test Mode: BDR---Middle



Test Mode: BDR---High



Test Mode: EDR----Low



Test Mode: EDR---Middle



Test Mode: EDR---High

7. Carrier Frequency Separation Test

7.1. Test Standard and Limit

| 0 | Test Standard | FCC Part15 C Section 15.247 (a)(1) | Anbotek | Anbo | P |
|---|---------------|--|---------|----------|---|
| | Test Limit | >25KHz or >two-thirds of the 20 dB bandwidth | Anbotek | Anboatek | P |

7.2. Test Setup



7.3. Test Procedure

The EUT must have its hopping function enabled. Using the following spectrum analyzer settings:

- 1. Span= Wide enough to capture the peaks of two adjacent channels
- 2. Set the RBW = 30 kHz.
- 3. Set the VBW = 100 kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

7.4. Test Data

| Test Item | : | Frequency Separation | Test Mode | : | CH Low ~ CH High |
|--------------|---|------------------------|-------------|---|------------------|
| Test Voltage | : | DC 3.7V Battery inside | Temperature | : | 24℃ |
| Test Result | : | PASS | Humidity | : | 55%RH |

| Channel | Frequency | Separation Read | Limit | Modulation Mode |
|---------|-----------|-----------------|-------|-----------------|
| | (MHz) | Value (kHz) | (kHz) | |
| Low | 2402 | 1000 | 932.7 | BDR |
| Middle | 2441 | 1000 | 932.1 | BDR |
| High | 2480 | 1000 | 931.3 | BDR |
| Low | 2402 | 1000 | 842.7 | EDR |
| Middle | 2441 | 1000 | 844.0 | EDR |
| High | 2480 | 1000 | 843.3 | EDR |

Remark:

- 1. The limit of mode (EDR) is 2/3 of 20dB BW;
- 2. The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.



Test Mode: BDR---Low



Test Mode: BDR---Middle



Test Mode: BDR---High



Test Mode: EDR---Low



Test Mode: EDR---Middle



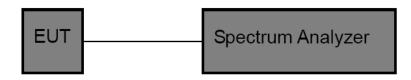
Test Mode: EDR---High

8. Number of Hopping Channel Test

8.1. Test Standard and Limit

| d'o | Test Standard | FCC Part15 C S | Section 15.2 | 247 (a)(1) | Anshotek | Anbotek | Anbo | p. |
|-----|---------------|----------------|--------------|------------|-----------|---------|------|----|
| | Test Limit | >15 channels | Anbotek | Anboro | An. botek | Anbotek | Anbo | F |

8.2. Test Setup



8.3. Test Procedure

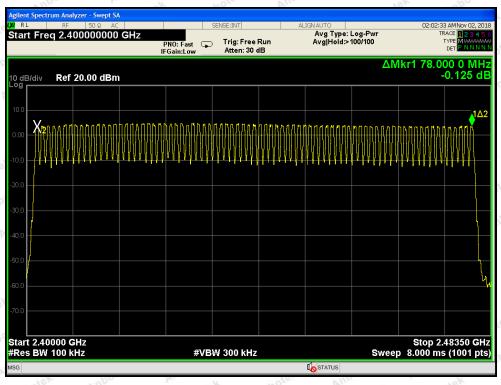
The EUT must have its hopping function enabled. Using the following spectrum analyzer setting:

- 1. Span= the frequency band of operation
- 2. Set the RBW = 100kHz.
- 3. Set the VBW = 300kHz.
- 4. Sweep time = auto couple.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

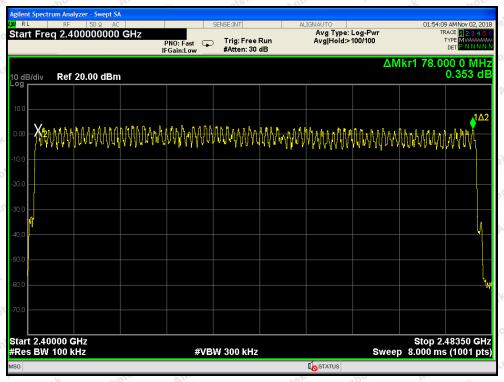
8.4. Test Data

| Test Item : | Number of Hopping Frequency | Test Mode : | CH Low ~ CH High |
|----------------|-----------------------------|---------------|------------------|
| Test Voltage : | DC 3.7V Battery inside | Temperature : | 24℃ |
| Test Result : | PASS | Humidity : | 55%RH |

| Hopping Channel Frequency Range | Quantity of Hopping Channel | Quantity of Hopping Channel |
|---------------------------------|-----------------------------|-----------------------------|
| 2402-2480MHz | And 79 botek Anbox | >15 |



BDR Mode



EDR Mode

9. Dwell Time Test

9.1. Test Standard and Limit

| ol, | Test Standard | FCC Part15 (| C Section 15.2 | 47 (a)(1) | Am | Anbotek | Anbo | p. |
|-----|---------------|--------------|----------------|-----------|-----|---------|------|----|
| | Test Limit | 0.4 sec | Anbotek | Anboro | Air | Anboten | Anbo | |

9.2. Test Setup



9.3. Test Procedure

The EUT must have its hopping function enabled. Use the following spectrum analyzer settings:

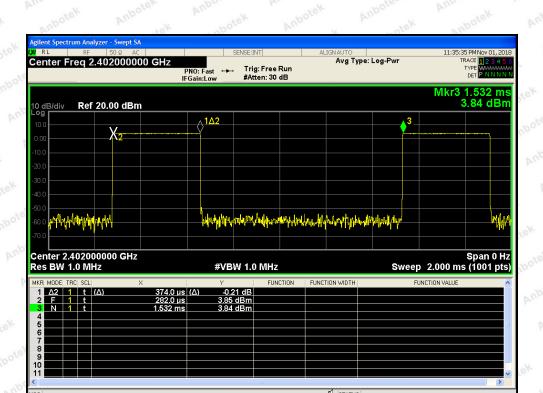
- 1. Span= zero span, centered on a hopping channel
- 2. Set the RBW = 1 MHz.
- 3. Set the VBW = 1 MHz.
- 4. Sweep time = as necessary to capture the entire dwell time per hopping channel.
- 5. Detector function = peak.
- 6. Trace mode = max hold.
- 7. Allow trace to fully stabilize.

9.4. Test Data

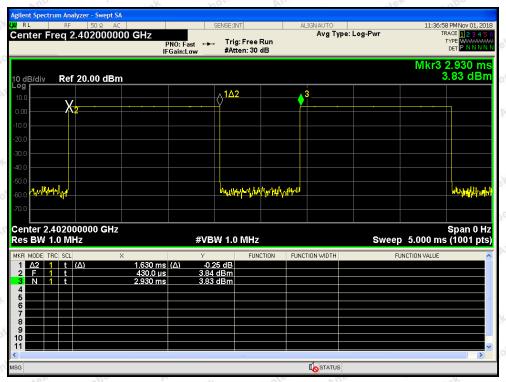
| Test Item | : | Time of Occupancy | Test Mode | : | CH Low ~ CH High |
|--------------|---|------------------------|-------------|---|------------------|
| Test Voltage | : | DC 3.7V Battery inside | Temperature | : | 24℃ |
| Test Result | : | PASS | Humidity | : | 55%RH |

| Package Type | Pulse width (ms) | Time slot length(ms) | Dwell time (ms) | Limit (s) | Modulation |
|-----------------|------------------|-------------------------------------|-----------------|-----------|------------|
| DH1 | 0.374 | time slot length *1600/2 /79 * 31.6 | 119.68 | 0.4 | BDR |
| DH3 | 1.630 | time slot length *1600/4 /79 * 31.6 | 260.80 | 0.4 | BDR |
| DH5 | 2.880 | time slot length *1600/6 /79 * 31.6 | 307.20 | 0.4 | BDR |
| 3DH1 | 0.384 | time slot length *1600/2 /79 * 31.6 | 122.88 | 0.4 | EDR |
| 3DH3 | 1.635 | time slot length *1600/4 /79 * 31.6 | 261.60 | 0.4 | EDR |
| 3DH5 | 2.880 | time slot length *1600/6 /79 * 31.6 | 307.20 | 0.4 | EDR |

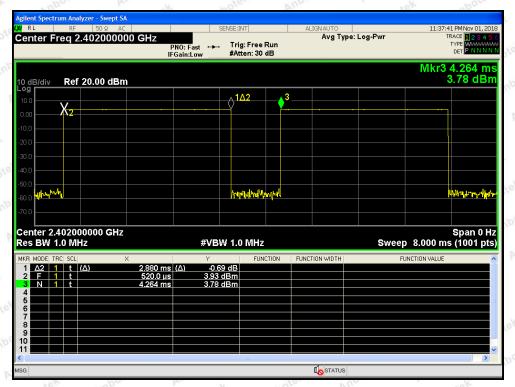
Remark: The EDR was tested on (π /4DQPSK, 8DPSK) modes, only the worst data of (8DPSK) is attached in the following pages.



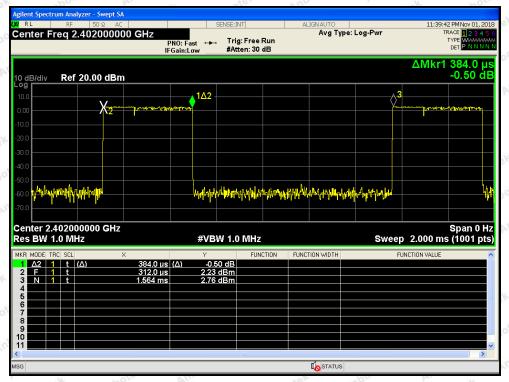
Test Mode: BDR---DH1



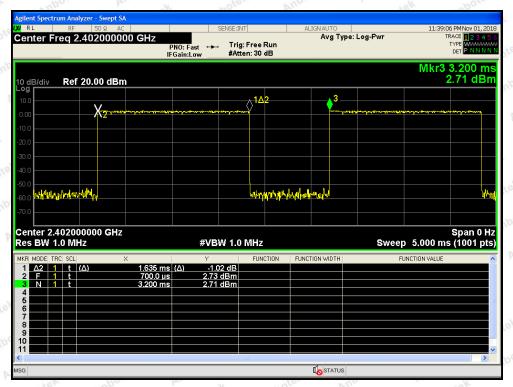
Test Mode: BDR---DH3



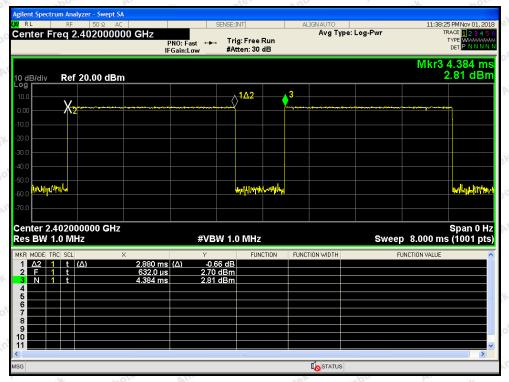
Test Mode: BDR—DH5



Test Mode: EDR---3DH1



Test Mode: EDR---3DH3



Test Mode: EDR—3DH5



10. 100kHz Bandwidth of Frequency Band Edge Requirement

10.1. Test Standard and Limit

| Test Standard | FCC Part15 C Section 15.247 (d) |
|---------------|--|
| Test Limit | in any 100 kHz bandwidth outside the frequency bands in which the spread spectrum intentional radiator in 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, 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). |

10.2. Test Setup



10.3. Test Procedure

The EUT must have its hopping/Non-hopping function enabled. Using the following spectrum analyzer setting:

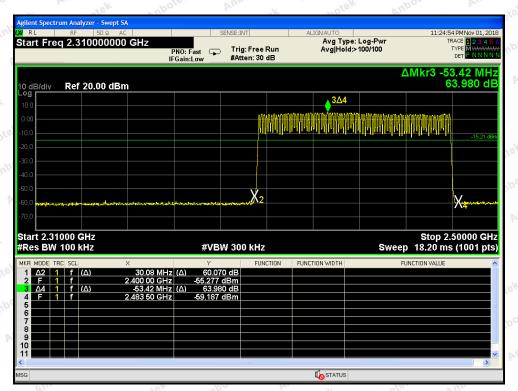
- 1. Set the RBW = 100kHz.
- 2. Set the VBW = 300kHz.
- 3. Sweep time = auto couple.
- 4. Detector function = peak.
- 5. Trace mode = \max hold.
- 6. Allow trace to fully stabilize.

10.4. Test Data

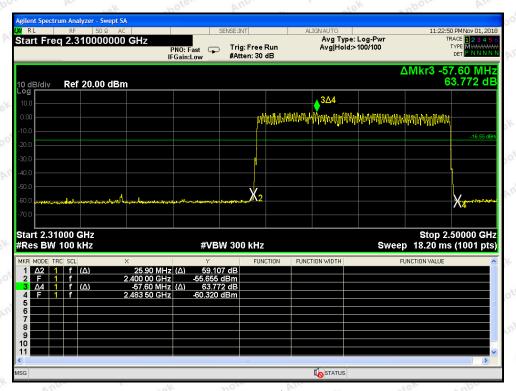
| Test Item : | Band edge | Test Mode : | CH Low ~ CH High |
|----------------|------------------------|---------------|------------------|
| Test Voltage : | DC 3.7V Battery inside | Temperature : | 24℃ |
| Test Result : | PASS | Humidity : | 55%RH |

Remark: The EDR was tested on $(\pi/4DQPSK, 8DPSK)$ modes, only the worst data of $(\pi/4DQPSK)$ is attached in the following pages.

For Hopping Mode



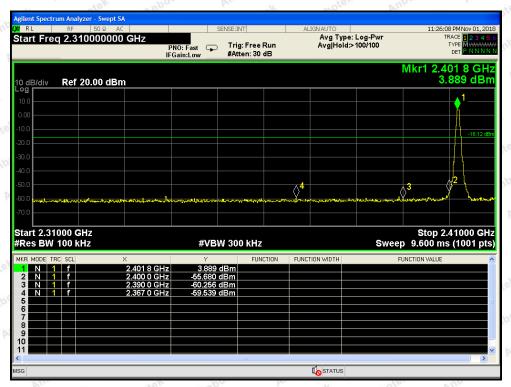
BDR mode



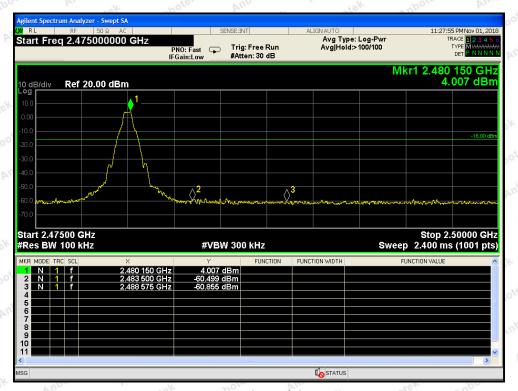
EDR mode

FCC ID: 2AIOHHT0704W08

For Non-Hopping Mode

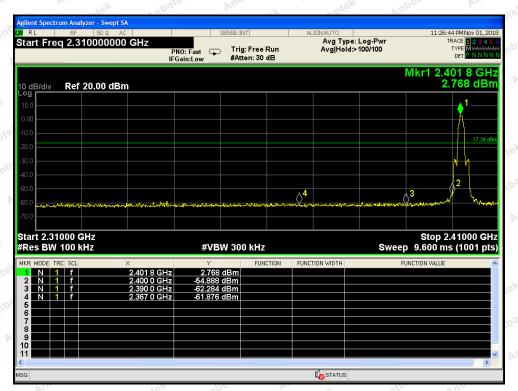


BDR mode -- Lowest

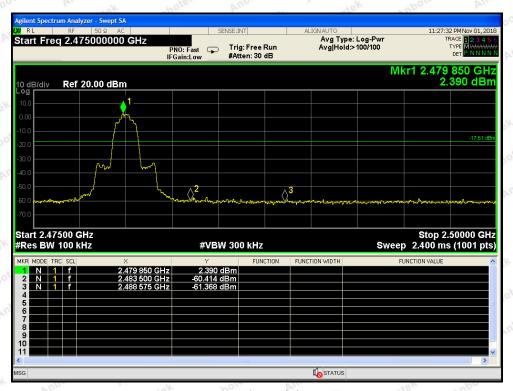


BDR mode -- Highest

For Non-Hopping Mode



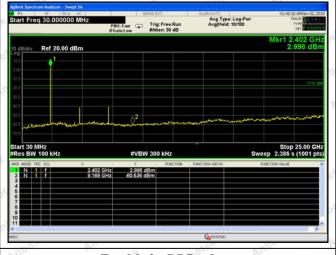
EDR mode -- Lowest

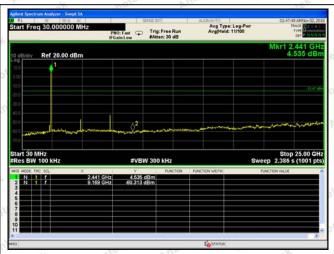


EDR mode -- Highest

FCC ID: 2AIOHHT0704W08

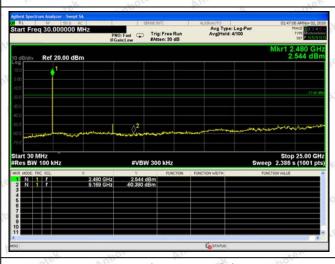
Conducted Emission Method

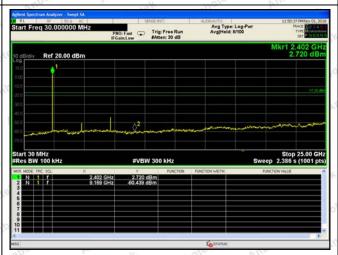




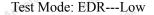
Test Mode: BDR---Low

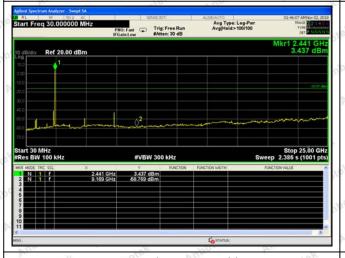
Test Mode: BDR---Mid

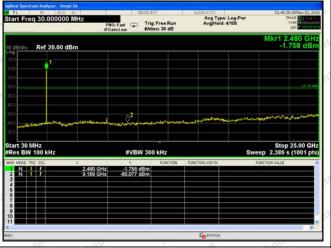




Test Mode: BDR---High







Test Mode: EDR---Mid

Test Mode: EDR---High



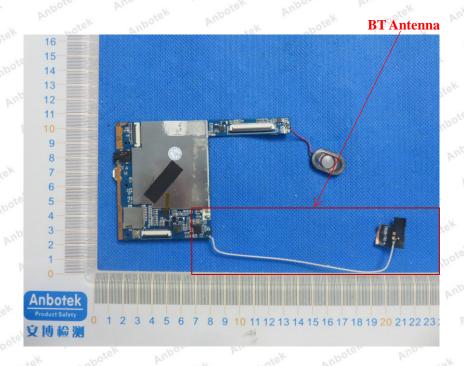
11. Antenna Requirement

11.1. Test Standard and Requirement

| Test Standard | FCC Part15 Section 15.203 /247(c) |
|---------------|--|
| | 1) 15 202 mark botek Anbour Anbour Anbour Anbour |
| | 1) 15.203 requirement: |
| | 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, the |
| | manufacturer may design the unit so that a broken antenna can be replaced by the user, but |
| Requirement | the use of a standard antenna jack or electrical connector is prohibited. |
| | 2) 15.247(c) (1)(i) requirement: |
| | Systems operating in the 2400-2483.5 MHz band that is used exclusively for fixed. |
| | Point-to-point operations may employ transmitting antennas with directional gain greater |
| | than 6dBi provided the maximum conducted output power of the intentional radiator is |
| | reduced by 1 dB for every 3 dB that the directional gain of the antenna exceeds 6 dBi. |

11.2. Antenna Connected Construction

The antenna is PIFA Antenna which permanently attached, and the best case gain of the antenna is 2.5 dBi. It complies with the standard requirement.





APPENDIX I -- TEST SETUP PHOTOGRAPH





Photo of Radiation Emission Test







APPENDIX II -- EXTERNAL PHOTOGRAPH





















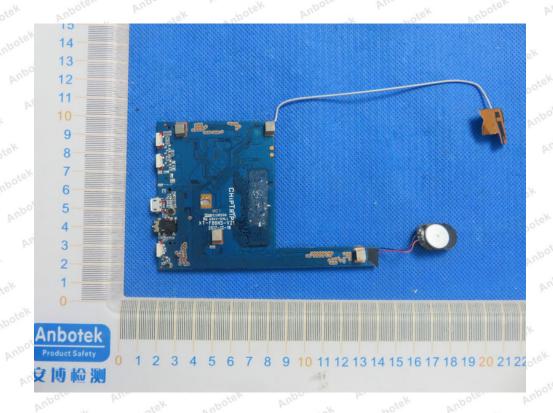
APPENDIX III -- INTERNAL PHOTOGRAPH















----- End of Report -----