

TEST REPORT

FCC ID: 2AEHZCOOL3G

Product: Smart Phone

Model No.: COOL

Trade Mark: FTC

Report No.: TCT150331E012

Issued Date: Apr. 10, 2015

Issued for:

FENIX TRADING COMPANY S.A.

1410 Spain Av., La Torre Building 2nd Floor. Asuncion, Paraguay.

Issued By:

Shenzhen Tongce Testing Lab.

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1. Test Certification

| Product: | Smart Phone |
|-----------------------|---|
| Model No.: | COOL |
| Applicant: | FENIX TRADING COMPANY S.A. |
| Address: | 1410 Spain Av., La Torre Building 2nd Floor. Asuncion, Paraguay. |
| Manufacturer: | Shenzhen MOBOT Tech.Co., Ltd. |
| Address: | 402#, Building 211,Terra Trade&Industry Park, Futian District Shenzhen, China |
| Date of Test: | Apr. 01 – Apr. 07, 2015 |
| Applicable Standards: | FCC CFR Title 47 Part 15 Subpart C Section 15.247 |

The above equipment has been tested by Shenzhen Tongce Testing Lab. and found compliance with the requirements set forth in the technical standards mentioned above. The results of testing in this report apply only to the product/system, which was tested. Other similar equipment will not necessarily produce the same results due to production tolerance and measurement uncertainties.

Tested By:

SKY

Date:

Apr. 07, 2015

Reviewed By:

Approved By:

Jan & on

Date:

Apr. 10, 2015

Tomsin

Tomsin

Joe Zhou

Date:

Apr. 10, 2015



2. Test Result Summary

| Requirement | CFR 47 Section | Result |
|----------------------------------|---------------------|--------|
| Antenna Requirement | §15.203/§15.247 (c) | PASS |
| AC Power Line Conducted Emission | §15.207 | PASS |
| Conducted Peak Output Power | §15.247 (b)(1) | PASS |
| 20dB Occupied Bandwidth | §15.247 (a)(1) | PASS |
| Carrier Frequencies Separation | §15.247 (a)(1) | PASS |
| Hopping Channel Number | §15.247 (a)(1) | PASS |
| Dwell Time | §15.247 (a)(1) | PASS |
| Radiated Emission | §15.205/§15.209 | PASS |
| Band Edge | §15.247(d) | PASS |

Note:

- 1. PASS: Test item meets the requirement.
- 2. Fail: Test item does not meet the requirement.
- 3. N/A: Test case does not apply to the test object.
- 4. The test result judgment is decided by the limit of test standard.



3. EUT Description

| Product Name: | Smart Phone | | | |
|------------------------|--|--|--|--|
| Model: | COOL | | | |
| Additional Model: | N/A | | | |
| Trade Mark: | FTC | | | |
| Operation Frequency: | 2402MHz~2480MHz | | | |
| Transfer Rate: | 1/2/3Mbits/s | | | |
| Number of Channel: | 79 | | | |
| Modulation Type: | GFSK, π/4-DQPSK, 8DPSK | | | |
| Modulation Technology: | FHSS | | | |
| Antenna Type: | PIFA Antenna | | | |
| Antenna Gain: | 0.8dBi | | | |
| Power Supply: | Rechargeable Li-ion Battery DC3.7V | | | |
| Remark: | DC 3.7V from Rechargeable Li-ion Battery | | | |

Operation Frequency each of channel for GFSK, π/4-DQPSK

| Operation | ni i requenc | y cacii o | i Cilalillei i | or or or, | ווויד-טעו ט | <u> </u> | |
|-----------|--------------|-----------|----------------|------------|-------------|----------|---------------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| | | | | | | | |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| | | | ン | | | | |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | - 59 | 2461MHz | | - |
| Remark: | Channel 0. 3 | 9 &78 ha | ve been tes | ted for GI | -SK. π/4-D0 | PSK mo | dulation mode |

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4. Genera Information

4.1. Test environment and mode

| Operating Environment: | |
|------------------------|---|
| Temperature: | 24.0 °C |
| Humidity: | 54 % RH |
| Atmospheric Pressure: | 1010 mbar |
| Test Mode: | |
| Operation mode: | Keep the EUT in continuous transmitting with modulation |

The sample was placed 0.8m above the ground plane of 3m chamber. Measurements in both horizontal and vertical polarities were performed. During the test, each emission was maximized by: having the EUT continuously working, investigated all operating modes, rotated about all 3 axis (X, Y & Z) and considered typical configuration to obtain worst position, manipulating interconnecting cables, rotating the turntable, varying antenna height from 1m to 4m in both horizontal and vertical polarizations. The emissions worst-case are shown in Test Results of the following pages.

4.2. 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.

| Equipment | Model No. | Serial No. | FCC ID | Trade Name | |
|-----------|-----------|------------|--------|------------|--|
| (E) | 1 (3) | 1 | (3)1 | | |

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.

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5. Facilities and Accreditations

5.1. Facilities

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

• FCC - Registration No.: 572331

Shenzhen Tongce Testing Lab

The 3m Semi-anechoic chamber has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

IC - Registration No.: 10668A-1

The 3m Semi-anechoic chamber of Shenzhen TCT Testing Technology Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing

CNAS - Registration No.: CNAS L6165
 Shenzhen TCT Testing Technology Co., Ltd. is accre

Shenzhen TCT Testing Technology Co., Ltd. is accredited to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration laboratories for the competence of testing. The Registration No. is CNAS L6165.

5.2. Location

Shenzhen Tongce Testing Lab

Address: 1F, Leinuo Watch Building, Fuyong Town, Baoan Dist, Shenzhen, China

Tel: 86-755-36638142

5.3. Measurement Uncertainty

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

| No. | Item | MU |
|-----|-------------------------------|---------|
| 1 | Conducted Emission | ±2.56dB |
| 2 | RF power, conducted | ±0.12dB |
| 3 | Spurious emissions, conducted | ±0.11dB |
| 4 | All emissions, radiated(<1G) | ±3.92dB |
| 5 | All emissions, radiated(>1G) | ±4.28dB |
| 6 | Temperature | ±0.1°C |
| 7 | Humidity | ±1.0% |





6. Test Results and Measurement Data

6.1. Antenna requirement

Standard requirement: FCC Part15 C Section 15.203 /247(c)

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 the use of a standard antenna jack or electrical connector is prohibited.

15.247(c) (1)(i) requirement:

(i) 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 6dBi.

E.U.T Antenna:

The EUT transmitting antennas belongs to PIFA antenna which permanently attached, and the best case gain of the antenna is 0.8dBi for Bluetooth.





6.2. Conducted Emission

6.2.1. Test Specification

| Test Requirement: | FCC Part15 C Section | 15.207 | | | | |
|-------------------|---|------------------|--------------|--|--|--|
| Test Method: | ANSI C63.4:2009 | (01) | | | | |
| Frequency Range: | 150 kHz to 30 MHz | | | | | |
| Receiver setup: | RBW=9 kHz, VBW=30 | kHz, Sweep time: | =auto | | | |
| | Frequency range | Limit (d | Limit (dBuV) | | | |
| | (MHz) | Quasi-peak | Average | | | |
| Limits: | 0.15-0.5 | 66 to 56* | 56 to 46* | | | |
| | 0.5-5 | 56 | 46 | | | |
| | 5-30 | 60 | 50 | | | |
| | Reference Plane | | | | | |
| Test Setup: | AUX Equipment Test table/Insulation plane Remark: E.U.T. Equipment Under Test LISN: Line Impedence Stabilization Network Test table height=0.8m | | | | | |
| Test Mode: | Continuous transmittin | g mode | | | | |
| Test Procedure: | The E.U.T and simulators are connected to the main power through a line impedance stabilization network (L.I.S.N.). This provides a 50ohm/50uH coupling impedance for the measuring equipment. The peripheral devices are also connected to the main power through a LISN that provides a 50ohm/50uH coupling impedance with 50ohm termination. (Please refer to the block diagram of the test setup and photographs). Both sides of A.C. line are checked for maximum conducted interference. In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.4: 2009 on conducted measurement. | | | | | |
| Test Result: | PASS | | | | | |
| | | | | | | |



6.2.2. Test Instruments

| Cond | Conducted Emission Shielding Room Test Site (843) | | | | | | | | | | |
|-------------------|---|-----------|---------------|-----------------|--|--|--|--|--|--|--|
| Equipment | Manufacturer | Model | Serial Number | Calibration Due | | | | | | | |
| EMI Test Receiver | R&S | ESCS30 | 100139 | Sep. 16, 2015 | | | | | | | |
| LISN | Schwarzbeck | NSLK 8126 | 8126453 | Sep. 29, 2015 | | | | | | | |
| Coax cable | TCT | N/A | N/A | Sep. 15, 2015 | | | | | | | |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A | | | | | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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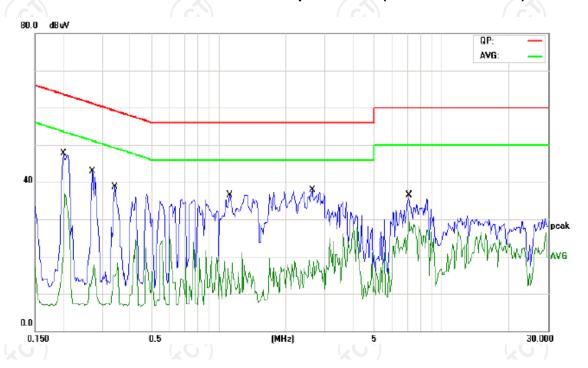
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6.2.3. Test data

Please refer to following diagram for individual

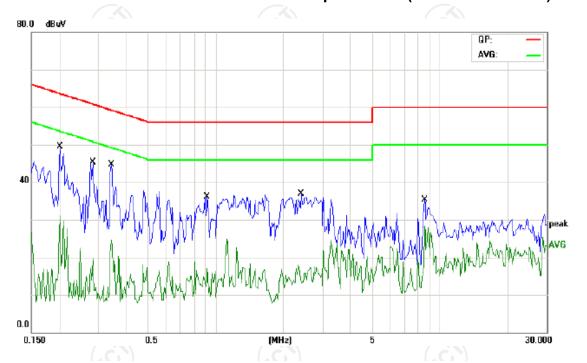
Conducted Emission on Line Terminal of the power line (150 kHz to 30MHz)



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | Detector | Comment |
| 1 | * | 0.2008 | 30.44 | 11.48 | 41.92 | 63.57 | -21.65 | QP | |
| 2 | | 0.2008 | 8.00 | 11.48 | 19.48 | 53.57 | -34.09 | AVG | |
| 3 | | 0.2828 | 25.12 | 11.44 | 36.56 | 60.73 | -24.17 | QP | |
| 4 | | 0.2828 | 6.42 | 11.44 | 17.86 | 50.73 | -32.87 | AVG | |
| 5 | | 0.3414 | 24.79 | 11.41 | 36.20 | 59.17 | -22.97 | QP | |
| 6 | | 0.3414 | 6.39 | 11.41 | 17.80 | 49.17 | -31.37 | AVG | |
| 7 | | 0.9156 | 15.38 | 11.18 | 26.56 | 56.00 | -29.44 | QP | |
| 8 | | 0.9156 | 0.72 | 11.18 | 11.90 | 46.00 | -34.10 | AVG | |
| 9 | | 2.4078 | 11.10 | 11.54 | 22.64 | 56.00 | -33.36 | QP | |
| 10 | | 2.4078 | -0.43 | 11.54 | 11.11 | 46.00 | -34.89 | AVG | |
| 11 | | 8.5742 | 14.88 | 11.16 | 26.04 | 60.00 | -33.96 | QP | |
| 12 | | 8.5742 | -0.59 | 11.16 | 10.57 | 50.00 | -39.43 | AVG | |
| | | | | | | | | | |



Conducted Emission on Neutral Terminal of the power line (150 kHz to 30MHz)



| No. | Mk. | Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | |
|-----|-----|--------|------------------|-------------------|------------------|-------|--------|----------|---------|
| | | MHz | dBu∀ | dB | dBu∀ | dBu∀ | dB | Detector | Comment |
| 1 | * | 0.2008 | 30.44 | 11.48 | 41.92 | 63.57 | -21.65 | QP | |
| 2 | | 0.2008 | 8.00 | 11.48 | 19.48 | 53.57 | -34.09 | AVG | |
| 3 | | 0.2828 | 25.12 | 11.44 | 36.56 | 60.73 | -24.17 | QP | |
| 4 | | 0.2828 | 6.42 | 11.44 | 17.86 | 50.73 | -32.87 | AVG | |
| 5 | | 0.3414 | 24.79 | 11.41 | 36.20 | 59.17 | -22.97 | QP | |
| 6 | | 0.3414 | 6.39 | 11.41 | 17.80 | 49.17 | -31.37 | AVG | |
| 7 | | 0.9156 | 15.38 | 11.18 | 26.56 | 56.00 | -29.44 | QP | |
| 8 | | 0.9156 | 0.72 | 11.18 | 11.90 | 46.00 | -34.10 | AVG | |
| 9 | | 2.4078 | 11.10 | 11.54 | 22.64 | 56.00 | -33.36 | QP | |
| 10 | | 2.4078 | -0.43 | 11.54 | 11.11 | 46.00 | -34.89 | AVG | |
| 11 | | 8.5742 | 14.88 | 11.16 | 26.04 | 60.00 | -33.96 | QP | |
| 12 | | 8.5742 | -0.59 | 11.16 | 10.57 | 50.00 | -39.43 | AVG | |
| | | | | | | | | | |

Note:

Freq. = Emission frequency in MHz

Reading level $(dB\mu V)$ = Receiver reading

Corr. Factor (dB) = Antenna factor + Cable loss

Measurement ($dB\mu V$) = Reading level ($dB\mu V$) + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB μ V) – Limits (dB μ V)

Q.P. =Quasi-Peak

AVG =average

^{*} is meaning the worst frequency has been tested in the frequency range 150 kHz to 30MHz.



6.3. Conducted Output Power

6.3.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (b)(3) | | |
|-------------------|--|--|--|
| Test Method: | ANSI C63.4:2009 and DA00-705 | | |
| Limit: | Section 15.247 (b) The maximum peak conducted output power of the intentional radiator shall not exceed the following: (1) For frequency hopping systems operating in the 2400-2483.5 MHz band employing at least 75 non-overlapping hopping channels, and all frequency hopping systems in the 5725-5850 MHz band: 1 watt. For all other frequency hopping systems in the 2400-2483.5 MHz band 0.125 watts. | | |
| Test Setup: | Power Meter Attenuator | | |
| Test Mode: | Continuous transmitting mode | | |
| Test Procedure: | The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. The RF output of EUT was connected to the power meter by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Measure the conducted output power with cable loss and record the results in the test report. Measure and record the results in the test report. | | |
| Test Result: | PASS | | |

6.3.2. Test Instruments

| Equipment | Manufacturer | Model | Serial Number | Calibration Due |
|----------------------|--------------|---------|---------------|-----------------|
| Power Meter | Anritsu | ML2495A | 1005002 | Dec. 11, 2015 |
| Pulse Power Senor | Anritsu | MA2411B | 0917070 | Dec. 11, 2015 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.3.3. Test Data

| GFSK mode | | | | |
|--------------|-------------------------|-------------|--------|--|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | |
| Lowest | 1.48 | 21.00 | PASS | |
| Middle | 0.26 | 21.00 | PASS | |
| Highest | 0.34 | 21.00 | PASS | |

| Pi/4DQPSK mode | | | |
|----------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 2.23 | 21.00 | PASS |
| Middle | 1.24 | 21.00 | PASS |
| Highest | 0.76 | 21.00 | PASS |

| 8DPSK mode | | | |
|--------------|-------------------------|-------------|--------|
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result |
| Lowest | 2.46 | 21.00 | PASS |
| Middle | 1.59 | 21.00 | PASS |
| Highest | 1.50 | 21.00 | PASS |



6.4. 20dB Occupy Bandwidth

6.4.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
|-------------------|---|
| Test Method: | ANSI C63.4:2009 and DA00-705 |
| Limit: | N/A |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Continuous transmitting mode |
| Test Procedure: | The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Use the following spectrum analyzer settings for 20dB Bandwidth measurement. Span = approximately 2 to 3 times the 20 dB bandwidth, centered on a hopping channel; RBW≥1% of the 20 dB bandwidth; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test Result: | PASS |

6.4.2. Test Instruments

| RF Test Room | | | | |
|---|-------------------|------|--------|--------------|
| Equipment Manufacturer Model Serial Number Calibration Du | | | | |
| Spectrum Analyzer | ROHDE&SCH WARZ | FSU3 | 200054 | Sep.16, 2015 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

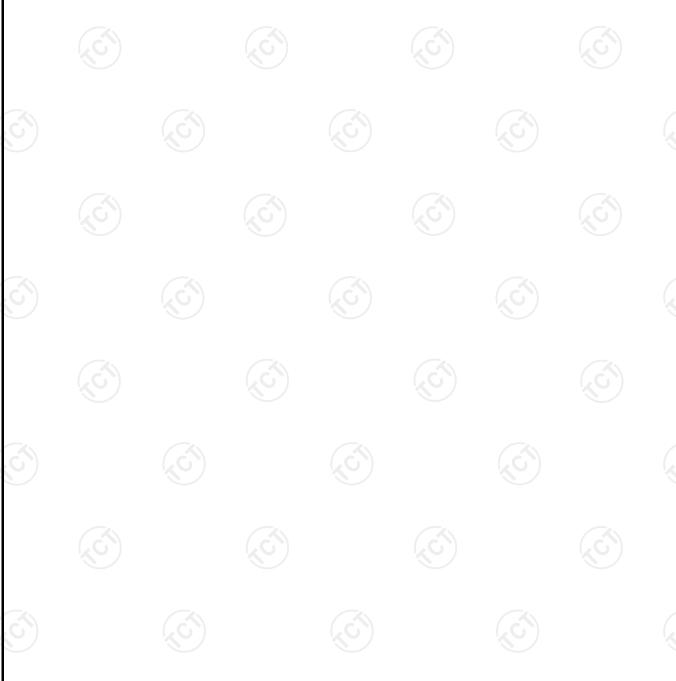
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6.4.3. Test data

| Toot shannel | 20dB Occupy Bandwidth (kHz) | | | |
|--------------|-----------------------------|-----------|-------|------------|
| Test channel | GFSK | π/4-DQPSK | 8DPSK | Conclusion |
| Lowest | 745.19 | 1130 | 1130 | PASS |
| Middle | 745.19 | 1130 | 1130 | PASS |
| Highest | 745.19 | 1130 | 1130 | PASS |

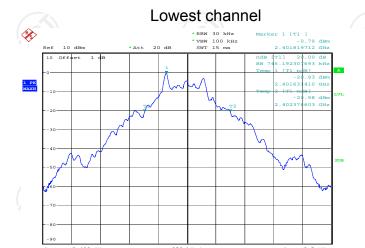
Test plots as follows:



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GFSK Modulation



Date: 2.APR.2015 10:49:33

Middle channel



Date: 2.APR.2015 10:50:26

Highest channel



Date: 2.APR.2015 10:51:0



Pi/4DQPSK Modulation



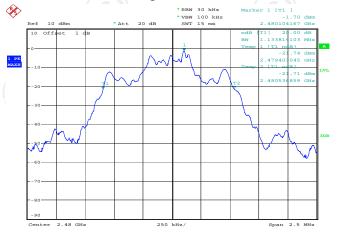
Date: 2.APR.2015 10:57:01

Middle channel



Date: 2.APR.2015 10:56:08

Highest channel

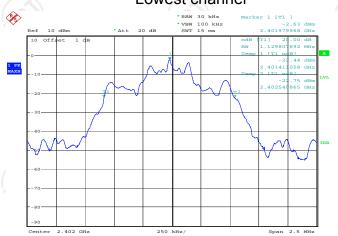


Date: 2.APR.2015 10:52:25



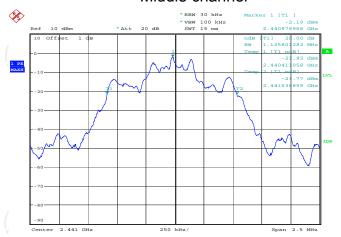
8DPSK Modulation

Lowest channel



Date: 2.APR.2015 10:58:31

Middle channel



Date: 2.APR.2015 10:59:27

Highest channel



Date: 2.APR.2015 11:00:08

Report No.: TCT150331E012



6.5. Carrier Frequencies Separation

6.5.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
|-------------------|---|
| Test Method: | ANSI C63.4:2009 and DA00-705 |
| Limit: | Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater. |
| Test Setup: | Spectrum Analyzer EUT |
| Test Mode: | Continuous transmitting mode |
| Test Procedure: | The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = wide enough to capture the peaks of two adjacent channels; RBW≥1% of the span; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test Result: | PASS |

6.5.2. Test Instruments

| RF Test Room | | | | |
|--|-------------------|------|--------|--------------|
| Equipment Manufacturer Model Serial Number Calibration Due | | | | |
| Spectrum Analyzer | ROHDE&SCH WARZ | FSU3 | 200054 | Sep.16, 2015 |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.5.3. Test data

| | | | 71 | |
|--------------|---|-------|------|--|
| GFSK mode | | | | |
| Test channel | Carrier Frequencies Separation (kHz) Limit (kHz) Result | | | |
| Lowest | 1002 | 496.8 | PASS | |
| Middle | 1002 | 496.8 | PASS | |
| Highest | 1002 | 496.8 | PASS | |

| Pi/4 DQPSK mode | | | | |
|--|------|-------|------|--|
| Test channel Carrier Frequencies Separation (kHz) Limit (kHz) Result | | | | |
| Lowest | 1002 | 753.3 | PASS | |
| Middle | 1002 | 753.3 | PASS | |
| Highest | 1002 | 753.3 | PASS | |

| 8DPSK mode | | | | | |
|---|------|-------|------|--|--|
| Test channel Carrier Frequencies Limit (kHz) Result | | | | | |
| Lowest | 1002 | 753.3 | PASS | | |
| Middle | 1002 | 753.3 | PASS | | |
| Highest | 1002 | 753.3 | PASS | | |

Note: According to section 6.4

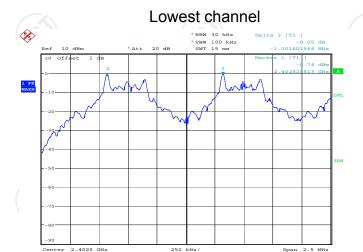
| rioter / to con uning to contain or r | A - | |
|---------------------------------------|--------------------------------------|--|
| Mode | 20dB bandwidth (kHz) (worse case) | Limit (kHz) (Carrier Frequencies Separation) |
| GFSK | 745.19 | 496.8 |
| π/4-DQPSK | 1130 | 753.3 |
| 8DPSK | 1130 | 753.3 |

Test plots as follows:



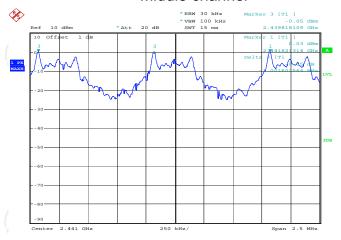


GFSK Modulation



Date: 2.APR.2015 11:14:51

Middle channel



Date: 2.APR.2015 11:16:11

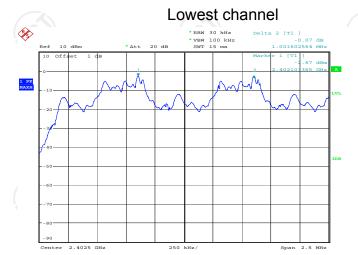
Highest channel



Date: 2.APR.2015 11:17:23



Pi/4DQPSK Modulation



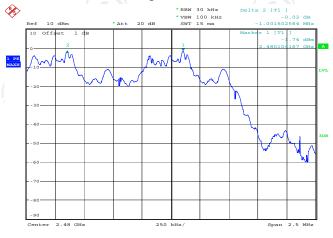
Date: 2.APR.2015 11:13:24

Middle channel



Date: 2.APR.2015 11:12:01

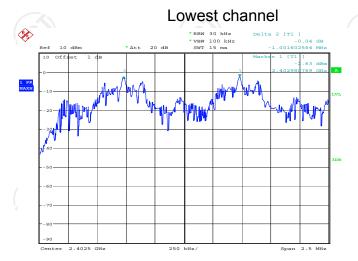
Highest channel



Date: 2.APR.2015 11:10:07



8DPSK Modulation



Date: 2.APR.2015 11:05:08

Middle channel



Date: 2.APR.2015 11:06:47

Highest channel



Date: 2.APR.2015 11:08:25



6.6. Hopping Channel Number

6.6.1. Test Specification

| Took Dominous sub | FCC Double C Continue 15 047 (a)(4) | | |
|-------------------|--|--|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) | | |
| Test Method: | ANSI C63.4:2009 and DA00-705 | | |
| Limit: | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. | | |
| Test Setup: | Spectrum Analyzer EUT | | |
| Test Mode: | Hopping mode | | |
| Test Procedure: | The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = the frequency band of operation; RBW ≥1% of the span; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. The number of hopping frequency used is defined as the number of total channel. Record the measurement data derived from spectrum analyzer. | | |
| Test Result: | PASS | | |

6.6.2. Test Instruments

| RF Test Room | | | | | |
|--|-------------------|------|--------|--------------|--|
| Equipment Manufacturer Model Serial Number Calibration Due | | | | | |
| Spectrum Analyzer | ROHDE&SCH WARZ | FSU3 | 200054 | Sep.16, 2015 | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

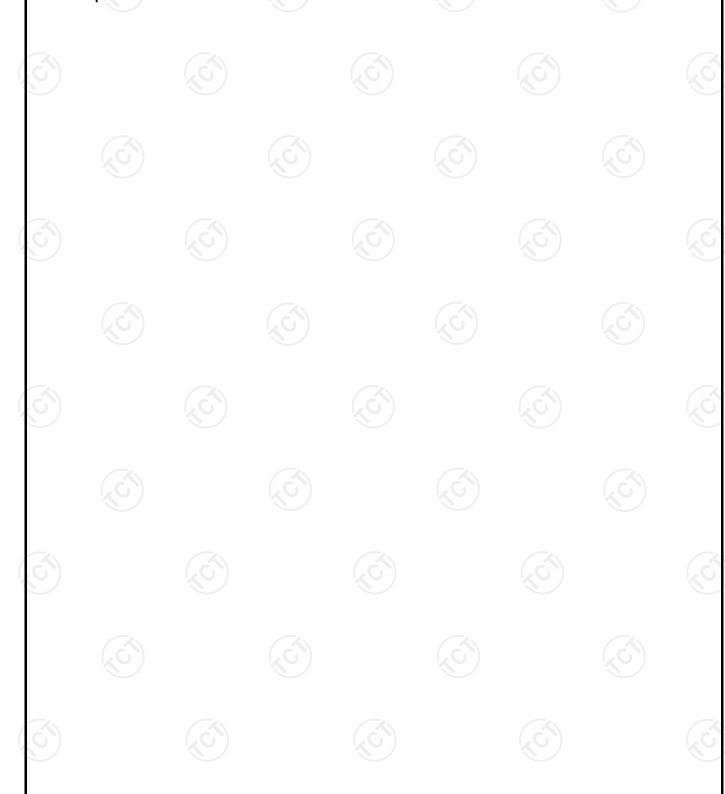
Page 25 of 49



6.6.3. Test data

| Mode | Hopping channel numbers | Limit | Result |
|-----------------------|-------------------------|-------|--------|
| 8DPSK,GFSK, P/4-DQPSK | 79 | 15 | PASS |

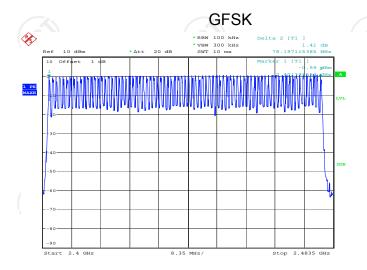
Test plots as follows:



Page 26 of 49

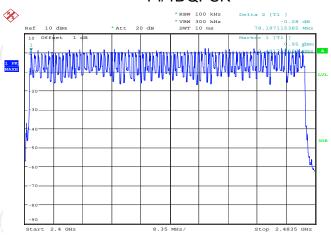
Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com



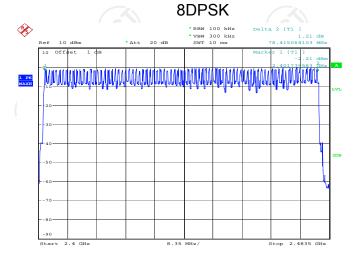


Date: 2.APR.2015 13:34:29

Pi/4DQPSK



Date: 2.APR.2015 13:39:29



Data: 2 ADD 2015 13:55:1



6.7. Dwell Time

6.7.1. Test Specification

| | , |
|-------------------|--|
| Test Requirement: | FCC Part15 C Section 15.247 (a)(1) |
| Test Method: | ANSI C63.4:2009 and DA00-705 |
| Limit: | The average time of occupancy on any channel shall not be greater than 0.4 seconds within a period of 0.4 seconds multiplied by the number of hopping channels employed. |
| Test Setup: | EUT. |
| | Spectrum Analyzer |
| Test Mode: | Hopping mode |
| Test Procedure: | The testing follows FCC Public Notice DA 00-705 Measurement Guidelines. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Enable the EUT hopping function. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW = 1 MHz; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. Measure and record the results in the test report. |
| Test Result: | PASS |

6.7.2. Test Instruments

| RF Test Room | | | | | |
|--|-------------------|------|--------|--------------|--|
| Equipment Manufacturer Model Serial Number Calibration Due | | | | | |
| Spectrum Analyzer | ROHDE&SCH WARZ | FSU3 | 200054 | Sep.16, 2015 | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.7.3. Test Data

| Mode | Packet | Hops Over Occupancy Time (hops) | Package Transfer Time (ms) | Dwell time (second) | Limit (second) | Result |
|---------------|--------|---------------------------------------|----------------------------------|---------------------|-------------------|--------|
| GFSK | DH5 | 106.67 | 2.93 | 0.31 | 0.4 | PASS |
| P/4-DQ PSK | 2DH5 | 106.67 | 2.93 | 0.31 | 0.4 | PASS |
| 8DPSK | 3DH5 | 106.67 | 2.93 | 0.31 | 0.4 | PASS |

Note: 1. In normal mode, hopping rate is 1600 hops/s with 6 slots in 79 hopping channels.

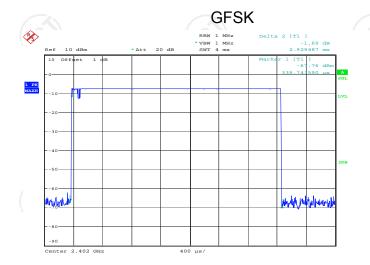
With channel hopping rate (1600 / 6 / 79) in Occupancy Time Limit (0.4 x 79) (s), Hops Over Occupancy Time comes to (1600 / 6 / 79) x (0.4 x 79) = 106.67 hops

2. Dwell Time(s) = Hops Over Occupancy Time (hops) x Package Transfer Time

Test plots as follows:

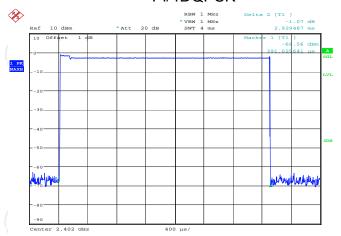




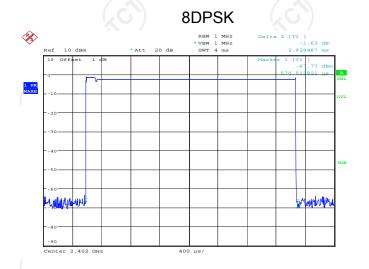


Date: 2.APR.2015 11:20:43

Pi/4DQPSK



Date: 2.APR.2015 11:34:32



Date: 2.APR.2015 11:39:01



6.8. Pseudorandom Frequency Hopping Sequence

Test Requirement:

FCC Part15 C Section 15.247 (a)(1) requirement:

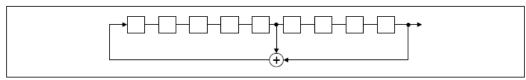
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

Alternatively. Frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW. The system shall hop to channel frequencies that are selected at the system hopping rate from a Pseudorandom ordered list of hopping frequencies. Each frequency must be used equally on the average by each transmitter. The system receivers shall have input bandwidths that match the hopping channel bandwidths of their corresponding transmitters and shall shift frequencies in synchronization with the transmitted signals.

EUT Pseudorandom Frequency Hopping Sequence

The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first one of 9 consecutive ones; i.e. the shift register is initialized with nine ones.

- Number of shift register stages: 9
- Length of pseudo-random sequence: 2⁹-1 = 511 bits
- Longest sequence of zeros: 8 (non-inverted signal)



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Each frequency used equally on the average by each transmitter.

The system receivers have input bandwidths that match the hopping channel

bandwidths of their corresponding transmitters and shift frequencies in synchronization with the transmitted signals.





6.9. Conducted Band Edge Measurement

6.9.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | | |
|-------------------|---|--|--|--|
| Test Method: | ANSI C63.4:2009 and DA00-705 | | | |
| Limit: | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which for in the restricted bands must also comply with the radiated emission limits. | | | |
| Test Setup: | Spectrum Analyzer EUT | | | |
| Test Mode: | Non-hopping mode and hopping mode | | | |
| Test Procedure: | The testing follows the guidelines in Band-edge Compliance of RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz (≥1% span=10MHz), VBW = 300 kHz (≥RBW). Band edge emissions must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100kHz RBW. The attenuation shall be 30 dB instead of 20 dB when RMS conducted output power procedure is used. Enable hopping function of the EUT and then repeat step 2 and 3. Measure and record the results in the test report. | | | |
| Test Result: | PASS | | | |

6.9.2. Test Instruments

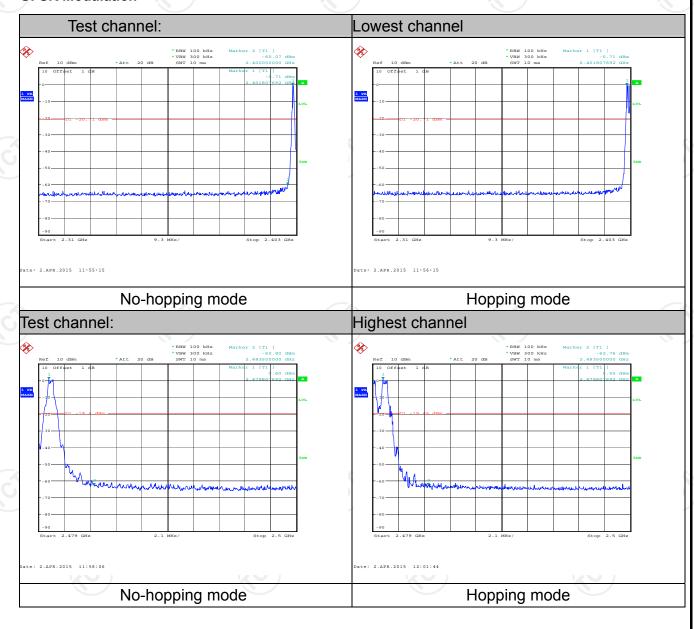
| RF Test Room | | | | | |
|--|-------------------|------|--------|--------------|--|
| Equipment Manufacturer Model Serial Number Calibration Due | | | | | |
| Spectrum Analyzer | ROHDE&SCH WARZ | FSU3 | 200054 | Sep.16, 2015 | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



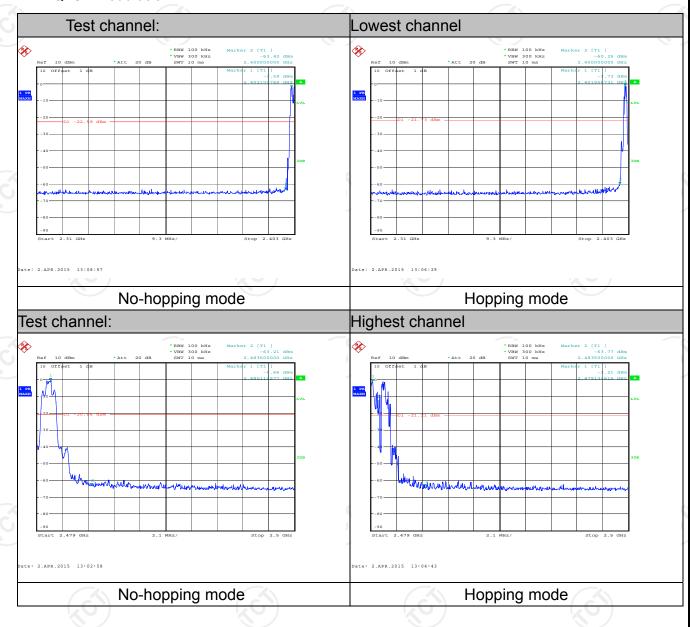
6.9.3. Test Data

GFSK Modulation



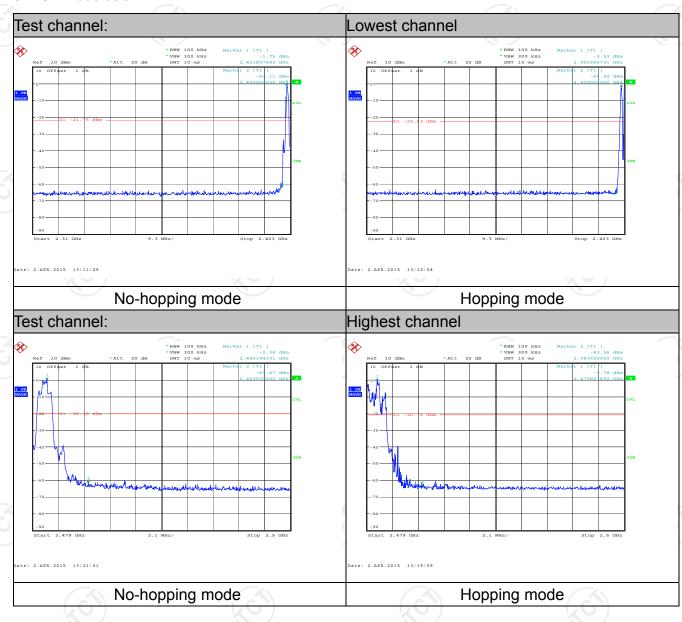


Pi/4DQPSK Modulation





8DPSK Modulation





6.10. Conducted Spurious Emission Measurement

6.10.1. Test Specification

| Test Requirement: | FCC Part15 C Section 15.247 (d) | | |
|-------------------|--|--|--|
| Test Method: | ANSI C63.4:2009 and DA00-705 | | |
| Limit: | In any 100 kHz bandwidth outside the intentional radiation frequency band, the radio frequency power shall be at least 20 dB below the highest level of the radiated power. In addition, radiated emissions which fal in the restricted bands must also comply with the radiated emission limits. | | |
| Test Setup: | | | |
| | Spectrum Analyzer EUT | | |
| Test Mode: | Non-hopping mode and hopping mode | | |
| Test Procedure: | The testing follows the guidelines in Spurious RF Conducted Emissions of FCC Public Notice DA 00-705 Measurement Guidelines The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator. The path loss was compensated to the results for each measurement. Set to the maximum power setting and enable the EUT transmit continuously. Set RBW = 100 kHz, VBW = 300kHz, scan up through 10th harmonic. All harmonics / spurs must be at least 20 dB down from the highest emission level within the authorized band as measured with a 100 kHz RBW. Measure and record the results in the test report. The RF fundamental frequency should be excluded against the limit line in the operating frequency band. | | |
| Test Result: | PASS | | |

6.10.2. Test Instruments

| RF Test Room | | | | | |
|--|---------|--------|------------|---------------|--|
| Equipment Manufacturer Model Serial Number Calibration Due | | | | | |
| Spectrum Analyzer | Agilent | N9020A | MY49100060 | Oct. 21, 2015 | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).



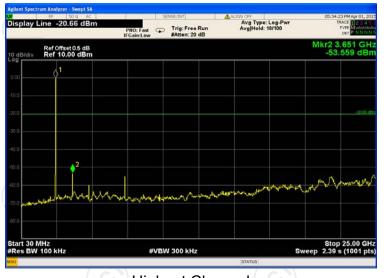
6.10.3. Test Data

GFSK mode

Lowest Channel



Middle Channel



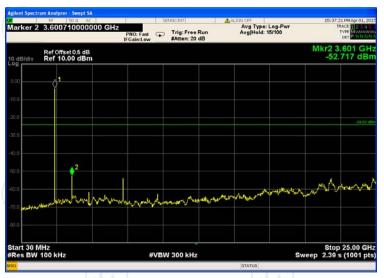
Highest Channel





Pi/4DQPSK mode

Lowest Channel



Middle Channel



Highest Channel





8DPSK mode

Lowest Channel



Middle Channel



Highest Channel







6.11. Radiated Spurious Emission Measurement

6.11.1. Test Specification

| Test Requirement: | FCC Part1 | 5 C Section | 15.209 | | | | | | | |
|-----------------------|---------------------------------------|---------------------------|--------|--------|-------------------------------------|--|--|--|--|--|
| Test Method: | ANSI C63.4: 2009 and ANSI C63.10-2013 | | | | | | | | | |
| Frequency Range: | 9 kHz to 25 | GHz | | | | | | | | |
| Measurement Distance: | 3 m | | | | | | | | | |
| Antenna Polarization: | Horizontal | & Vertical | | | | | | | | |
| | Frequency | Detector | RBW | VBW | Remark | | | | | |
| Limit: | 30MHz-1G Hz | Quasi-peak | 120kHz | 300kHz | Quasi-peak Value | | | | | |
| | Above | Peak | 1MHz | 3MHz | Peak Value | | | | | |
| | 1GHz | Peak | 1MHz | 10Hz | Average Value | | | | | |
| Test setup: | For radiated er | Distance = 3m Turn table | | Pro | Computer e-Amplifier Receiver | | | | | |
| | Turn Table Ground Plan Above 1GHz | 3m 4m 4m 0.8m 1m | | | Search Antenna F Test ecciver | | | | | |





| | Horn Antenna Tower Ground Reference Plane Test Receiver Amptier Controller |
|-----------------|---|
| Test Mode: | Continuous transmitting mode |
| | The testing follows the guidelines in Spurious Radiated Emissions of FCC Public Notice DA 00-705 Measurement Guidelines. The EUT was placed on a turntable with 0.8m above ground for below 1GHz, 1.5m for above 1GHz The EUT was set 3 meters from the interference receiving antenna, which was mounted on the top of a variable height antenna tower. For each suspected emission, the EUT was arranged to its worst case and then tune the Antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high pass filter are used for the test in order to get better signal level to comply with the guidelines. Set to the maximum power setting and enable the EUT transmit continuously. |
| Test Procedure: | 6. Use the following spectrum analyzer settings: (1) Span shall wide enough to fully capture the emission being measured; (2) Set RBW=100 kHz for f < 1 GHz, RBW=1MHz for f>1GHz; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold for peak (3) For average measurement: use duty cycle correction factor method per 15.35(c). Duty cycle = On time/100 milliseconds On time =N1*L1+N2*L2++Nn-1*LNn-1+Nn*Ln Where N1 is number of type 1 pulses, L1 is length of type 1 pulses, etc. Average Emission Level = Peak Emission Level + 20*log(Duty cycle) Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level |
| Test results: | PASS |





6.11.2. Test Instruments

| | Radiated Emission Test Site (966) | | | | | | | | | | | |
|----------------------|--|--------------------|------------|-----------------|--|--|--|--|--|--|--|--|
| Name of Equipment | Manufacturer | Manufacturer Model | | Calibration Due | | | | | | | | |
| ESPI Test Receiver | ROHDE&SCHW ARZ | ESVD | 100008 | Sep.16 , 2015 | | | | | | | | |
| Spectrum Analyzer | ROHDE&SCHW ARZ | FSU3 | 200054 | Sep.16, 2015 | | | | | | | | |
| Spectrum Analyzer | ROHDE&SCHW ARZ | FSEM | 848597/001 | Sep.16 , 2015 | | | | | | | | |
| Pre-amplifier | EM Electronics Corporation CO.,LTD | EM30265 | 07032613 | Sep.16 , 2015 | | | | | | | | |
| Pre-amplifier | HP | 8447D | 2727A05017 | Sep.16 , 2015 | | | | | | | | |
| Loop antenna | ZHINAN | ZN30900A | 12024 | Dec.14 , 2015 | | | | | | | | |
| Broadband Antenna | Schwarzbeck | VULB9163 | 340 | Sep.16 , 2015 | | | | | | | | |
| Horn Antenna | Schwarzbeck | BBHA 9120D | 631 | Sep.16, 2015 | | | | | | | | |
| Coax cable | TCT | N/A | N/A | Sep.15, 2015 | | | | | | | | |
| Coax cable | TCT | N/A | N/A | Sep.15, 2015 | | | | | | | | |
| Coax cable | TCT | N/A | N/A | Sep.15 , 2015 | | | | | | | | |
| Coax cable | TCT | N/A | N/A | Sep.15 , 2015 | | | | | | | | |
| EMI Test Software | Shurple Technology | EZ-EMC | N/A | N/A | | | | | | | | |

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.11.3. Test Data

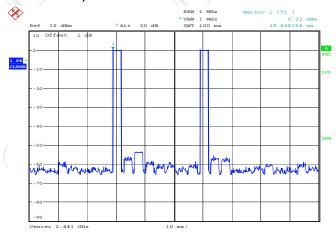
Duty cycle correction factor for average measurement

DH5 on time (One Pulse) Plot on Channel 01



Date: 2.APR.2015 13:25:53

DH5 on time (Count Pulses) Plot on Channel 01



Date: 2.APR.2015 13:27:22

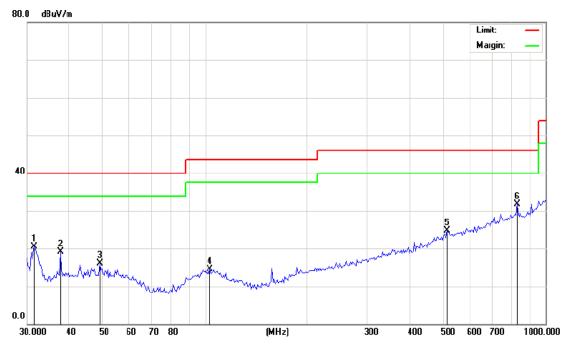
Note:

- 1. Worst case Duty cycle = on time/100 milliseconds = 2.942/100 = 0.02942
- 2. Worst case Duty cycle correction factor = 20*log (Duty cycle) = -30.63dB
- 3. DH5 has the highest duty cycle worst case and is reported.
- 4. The average levels were calculated from the peak level corrected with duty cycle correction factor (-30.63dB) derived from 20log (dwell time/100ms). This correction is only for signals that hop with the fundamental signal, such as band-edge and harmonic. Other spurious signals that are independent of the hopping signal would not use this correction.



Please refer to following diagram for individual Below 1GHz

Horizontal:

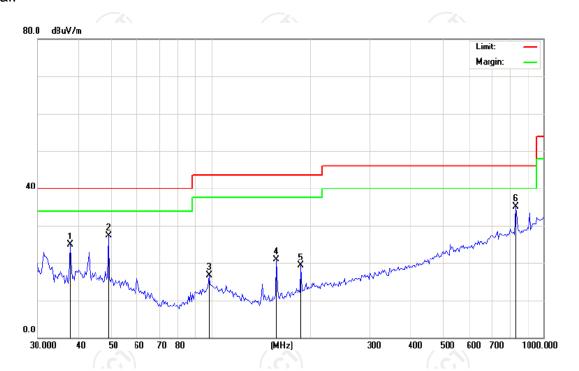


| No. Mi | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|--------|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 31.5125 | 33.94 | -13.53 | 20.41 | 40.00 | -19.59 | peak | | 0 | |
| 2 | 37.5647 | 31.96 | -12.78 | 19.18 | 40.00 | -20.82 | peak | | 0 | |
| 3 | 49.0626 | 28.11 | -12.08 | 16.03 | 40.00 | -23.97 | peak | | 0 | |
| 4 | 103.3353 | 26.07 | -11.62 | 14.45 | 43.50 | -29.05 | peak | | 0 | |
| 5 | 512.9477 | 27.64 | -2.84 | 24.80 | 46.00 | -21.20 | peak | | 0 | |
| 6 * | 827.1794 | 30.01 | 1.79 | 31.80 | 46.00 | -14.20 | peak | | 0 | |





Vertical:



| No. M | k. Freq. | Reading Level | Correct Factor | Measure- ment | Limit | Over | | Antenna Height | Table Degree | |
|-------|----------|------------------|-------------------|------------------|--------|--------|----------|-------------------|-----------------|---------|
| | MHz | dBuV | dB | dBuV/m | dBuV/m | dB | Detector | cm | degree | Comment |
| 1 | 37.5648 | 37.65 | -12.78 | 24.87 | 40.00 | -15.13 | peak | | 0 | |
| 2 | 49.0627 | 39.47 | -12.08 | 27.39 | 40.00 | -12.61 | peak | | 0 | |
| 3 | 98.3752 | 28.43 | -11.68 | 16.75 | 43.50 | -26.75 | peak | | 0 | |
| 4 | 157.5290 | 35.58 | -14.63 | 20.95 | 43.50 | -22.55 | peak | | 0 | |
| 5 | 186.4684 | 31.97 | -12.62 | 19.35 | 43.50 | -24.15 | peak | | 0 | |
| 6 * | 827.1795 | 33.23 | 1.79 | 35.02 | 46.00 | -10.98 | peak | | 0 | |





Modulation Type: GFSK

Above 1GHz

| | Low channe | el: 2402 MF | łz | | | | | | | |
|---|--------------------|------------------|---------------------------|----------------------|--------------------------------|------------------------------|---------------------------|------------------------|----|----------------|
| | Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBuV) | Correction Factor (dB/m) | Emission Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | | Margin (dB) |
| | 1226.34 | Н | 46.58 | | -4.20 | 42.38 | | 74 | 54 | -11.62 |
| | 4804 | H | 46.97 | -y- (\) | -3.94 | 43.03 | 4 | 74 | 54 | -10.97 |
| | 7206 | C H | 42.12 | -C | 0.52 | 42.64 | .C | 74 | 54 | -11.36 |
| | | H | - | | | | | | | |
| | | Н | | | | | | | | |
| | 1226.34 | V | 48.70 | | -4.20 | 44.50 | | 74 | 54 | -9.50 |
| C | 4804 | V | 47.13 | | -3.94 | 43.19 | | 74 | 54 | -10.81 |
| | 7206 | V | 44.56 | | 0.52 | 45.08 | | 74 | 54 | -8.92 |
| | | V | | | | | | | | |
| | | V | | | | | | | | |

| Middle cha | nnel: 2441 l | MHz | | \ | (| | | | |
|--------------------|------------------|---------------------------|----------------------|--------------------------------|------------------------------|---------------------------|------------------------|----------------------|----------------|
| Frequency (MHz) | Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emission Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| 1241.87 | I | 49.26 | | -4.20 | 45.06 | | 74 | 54 | -8.94 |
| 4882.00 | Τ | 51.60 | | -3.98 | 47.62 | | 74 | 54 | -6.38 |
| 7323.00 | Τ | 46.19 | | 0.56 | 46.75 | | 74 | 54 | -7.25 |
| | Τ | | | | / | | | | |
| | Н | | | | | | | | |
| 1306.45 | V | 48.64 | 77 | -4.25 | 44.39 | | 74 | 54 | -9.61 |
| 4882.00 | CV | 51.02 | (- C) | -3.98 | 47.04 | .G -1 | 74 | 54 | -6.96 |
| 7323.00 | V | 45.40 | | 0.57 | 45.97 | <u></u> | 74 | 54 | -8.03 |
| | V | - | | | | | | | |
| | V | | | | | | | | |

| el: 2480 MF | 14 | | | | | | | |
|------------------|------------------------------|--|---|--|---|--|--|---|
| Ant. Pol. H/V | Peak reading (dBµV) | AV reading (dBµV) | Correction Factor (dB/m) | Emission Peak (dBµV/m) | n Level AV (dBµV/m) | Peak limit (dBµV/m) | AV limit (dBµV/m) | Margin (dB) |
| H | 48.05 | | -4.20 | 43.85 | | 74 | 54 | -10.15 |
| Н | 49.60 | +-6 | -3.98 | 45.62 | | 74 | 54 | -8.38 |
| Н | 44.49 | 120 | 0.52 | 45.01 | (9-7 | 74 | 54 | -8.99 |
| Н | | | | | | | | |
| Н | | | | | | | | |
| V | 48.57 | | -4.25 | 44.32 | | 74 | 54 | -9.68 |
| V | 50.13 | | -3.98 | 46.15 | | 74 | 54 | -7.85 |
| V | 45.21 | | 0.57 | 45.78 | | 74 | 54 | -8.22 |
| V | | | | | | | | |
| V | | | | | | | | |
| | Ant. Pol. H/V H H H V V V V | Ant. Pol. Peak reading (dBµV) H 48.05 H 49.60 H 44.49 H H V 48.57 V 50.13 V 45.21 V | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) H 48.05 H 49.60 H 44.49 H H V 48.57 V 50.13 V 45.21 V | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction Factor (dB/m) H 48.05 -4.20 H 49.60 -3.98 H 44.49 0.52 H H V 48.57 -4.25 V 50.13 -3.98 V 45.21 0.57 V | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction Factor (dB/m) Emission Peak (dBμV/m) H 48.05 -4.20 43.85 H 49.60 -3.98 45.62 H 44.49 0.52 45.01 H H H V 48.57 -4.25 44.32 V 50.13 -3.98 46.15 V 45.21 0.57 45.78 V | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction (dB/m) Emission Level H 48.05 -4.20 43.85 H 49.60 -3.98 45.62 H 44.49 0.52 45.01 H H H H V 48.57 -4.25 44.32 V 50.13 -3.98 46.15 V 45.21 0.57 45.78 V | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction (dB/m) Emission Level (dBμV/m) Peak (dBμV/m) Peak (dBμV/m) AV (dBμV/m) <td>Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction (dB/m) Emission Level (dBμV/m) Peak (dBμV/m) AV (dBμV/m)</td> | Ant. Pol. H/V Peak reading (dBμV) AV reading (dBμV) Correction (dB/m) Emission Level (dBμV/m) Peak (dBμV/m) AV (dBμV/m) |

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency.
- Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.

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7. Photographs of Test Configuration

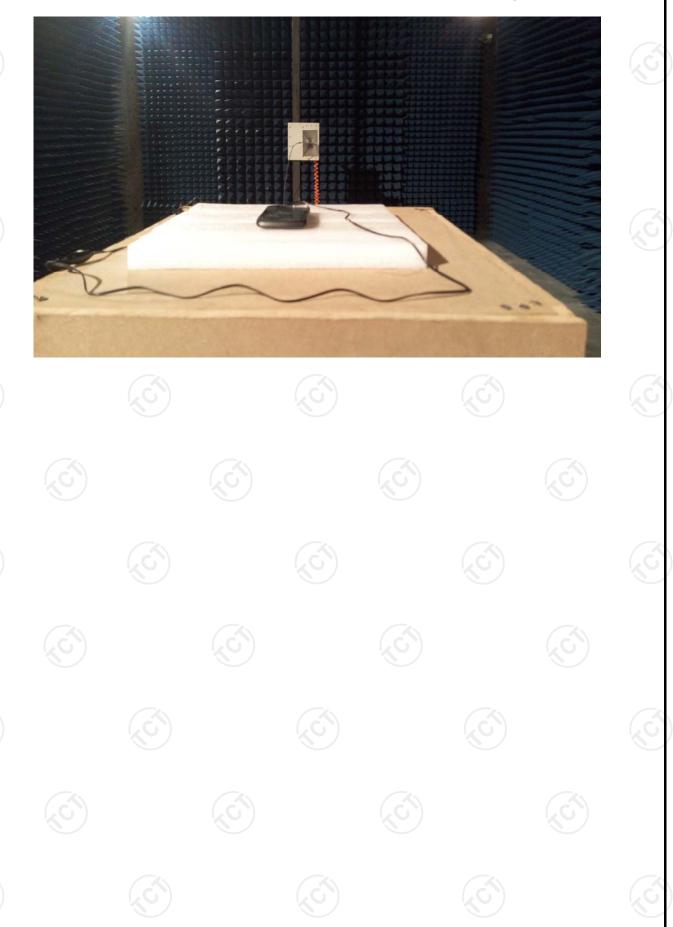




Radiated Emission









Photographs of EUT 8.

Please refer to report TCT150331E013















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





































