

Report No.: SZEM121100615201

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FCC REPORT

Application No: SZEM1211006152RF

Applicant: Edifier International Limited

Manufacturer: Beijing Edifier Technology Co., Ltd.

Factory: Dongguan Edifier Technology Co., Ltd.

Product Name: Multimedia Speaker

Model No.(EUT): iF335BT

Add Model No.: Bric Connect FCC ID: Z9G-EDF09

Standards: 47 CFR Part 15, Subpart C (2011)

Date of Receipt: 2012-11-13

Date of Test: 2012-11-16 to 2012-12-03

Date of Issue: 2012-12-27

Test Result: PASS *

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

^{*} In the configuration tested, the EUT complied with the standards specified above.



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2 Test Summary

| Test Item | Test Requirement | Test method | Result |
|--------------------------------------------|---------------------------------------------------------------------------------------|--------------------|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | ANSI C63.10 (2009) | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | ANSI C63.10 (2009) | PASS |
| Conducted Peak Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(1) | ANSI C63.10 (2009) | PASS |
| 20dB Occupied Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | ANSI C63.10 (2009) | PASS |
| Carrier Frequencies Separation | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | ANSI C63.10 (2009) | PASS |
| Hopping Channel Number | 47 CFR Part 15, Subpart C Section 15.247 (b) | ANSI C63.10 (2009) | PASS |
| Dwell Time | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | ANSI C63.10 (2009) | PASS |
| Pseudorandom Frequency Hopping Sequence | 47 CFR Part 15, Subpart C Section 15.247(b)(4)&TCB Exclusion List (7 July 2002) | ANSI C63.10 (2009) | PASS |
| Band-edge for RF Conducted Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 (2009) | PASS |
| RF Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | ANSI C63.10 (2009) | PASS |
| Radiated Spurious emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 (2009) | PASS |
| Band Edge (Radiated Emission) | 47 CFR Part 15, Subpart C Section 15.205/15.209 | ANSI C63.10 (2009) | PASS |

Remark:

Model No.: iF335BT, Bric Connect

Only the Model iF335BT was tested, since the electrical circuit design, layout, components used and internal wiring were identical for all above models. Only the model number and color are different.

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4 General Information

4.1 Client Information

| Applicant: | Edifier International Limited |
|--------------------------|---------------------------------------------------------------------------------------------------|
| Address of Applicant: | Room 2207-9, Tower Two, Lippo Centre 89 Queensway, HongKong |
| Manufacturer: | Beijing Edifier Technology Co., Ltd. |
| Address of Manufacturer: | 8th floor, ZuoAn Building, NO.68 BeiSiHuanXiLu, Haidian District, Beijing 100080, CHINA |
| Factory: | Dongguan Edifier Technology Co., Ltd. |
| Address of Factory: | No.2 Gongyedong Road, Songshan Lake Sci&Tech Industry Park, Dongguan, Guangdong 523808, P.R.China |

4.2 General Description of EUT

| Name: | Multimedia Speaker | | |
|-----------------------|------------------------------------------------------------------------------------------|--|--|
| Model No.: | iF335BT, Bric Connect | | |
| Trade Mark: | EDIFIER | | |
| Operation Frequency: | 2402MHz~2480MHz | | |
| Bluetooth Version: | V2.1+EDR | | |
| Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | | |
| Modulation Type: | GFSK, π/4DQPSK, 8DPSK | | |
| Number of Channel: | 79 | | |
| Test Software of EUT: | CSR blue suite (manufacturer declare) | | |
| Antenna Type | Integral | | |
| Antenna Gain | 2.5dBi | | |
| Power Supply: | Adapter: MODEL No.: ADT-12120 US INPUT: AC 100-240V 50/60Hz 0.7A OUTPUT: DC 12V 1A | | |
| | Battery: 9.0V DC (6*1.5V "AA" Size Batteries) | | |
| AC cable: | 150cm | | |
| AUX cable: | 170cm | | |
| Test Voltage: | 120V/ 60Hz | | |



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| Operation Frequency each of channel | | | | | | | |
|-------------------------------------|-----------|---------|-----------|---------|-----------|---------|-----------|
| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
| 1 | 2402MHz | 21 | 2422MHz | 41 | 2442MHz | 61 | 2462MHz |
| 2 | 2403MHz | 22 | 2423MHz | 42 | 2443MHz | 62 | 2463MHz |
| 3 | 2404MHz | 23 | 2424MHz | 43 | 2444MHz | 63 | 2464MHz |
| 4 | 2405MHz | 24 | 2425MHz | 44 | 2445MHz | 64 | 2465MHz |
| 5 | 2406MHz | 25 | 2426MHz | 45 | 2446MHz | 65 | 2466MHz |
| 6 | 2407MHz | 26 | 2427MHz | 46 | 2447MHz | 66 | 2467MHz |
| 7 | 2408MHz | 27 | 2428MHz | 47 | 2448MHz | 67 | 2468MHz |
| 8 | 2409MHz | 28 | 2429MHz | 48 | 2449MHz | 68 | 2469MHz |
| 9 | 2410MHz | 29 | 2430MHz | 49 | 2450MHz | 69 | 2470MHz |
| 10 | 2411MHz | 30 | 2431MHz | 50 | 2451MHz | 70 | 2471MHz |
| 11 | 2412MHz | 31 | 2432MHz | 51 | 2452MHz | 71 | 2472MHz |
| 12 | 2413MHz | 32 | 2433MHz | 52 | 2453MHz | 72 | 2473MHz |
| 13 | 2414MHz | 33 | 2434MHz | 53 | 2454MHz | 73 | 2474MHz |
| 14 | 2415MHz | 34 | 2435MHz | 54 | 2455MHz | 74 | 2475MHz |
| 15 | 2416MHz | 35 | 2436MHz | 55 | 2456MHz | 75 | 2476MHz |
| 16 | 2417MHz | 36 | 2437MHz | 56 | 2457MHz | 76 | 2477MHz |
| 17 | 2418MHz | 37 | 2438MHz | 57 | 2458MHz | 77 | 2478MHz |
| 18 | 2419MHz | 38 | 2439MHz | 58 | 2459MHz | 78 | 2479MHz |
| 19 | 2420MHz | 39 | 2440MHz | 59 | 2460MHz | 79 | 2480MHz |
| 20 | 2421MHz | 40 | 2441MHz | 60 | 2461MHz | | |

Note:

In section 15.31(m), regards to the operating frequency range over 10 MHz, the Lowest frequency, the middle frequency, and the highest frequency of channel were selected to perform the test, and the selected channel see below:

| Channel | Frequency |
|---------------------|-----------|
| The Lowest channel | 2402MHz |
| The Middle channel | 2441MHz |
| The Highest channel | 2480MHz |



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4.3 Test Environment

| Operating Environment: | | |
|------------------------|----------|--|
| Temperature: | 20.0 °C | |
| Humidity: | 54 % RH | |
| Atmospheric Pressure: | 1016mbar | |

4.4 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. |
|-------------|--------------|-----------|
| iPod | Apple | A1199 |

4.5 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen Branch E&E Lab,

No. 1 Workshop, M-10, Middle Section, Science & Technology Park, Shenzhen, Guangdong, China. 518057

Tel: +86 755 2601 2053 Fax: +86 755 2671 0594

No tests were sub-contracted.



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4.6 Test Facility

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

CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 3m Semi-anechoic chamber, Full-anechoic Chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-2197, G-416, T-1153 and C-2383 respectively.

• FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been registered 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.: 556682.

Industry Canada (IC)

The 3m Semi-anechoic chamber of SGS-CSTC Standards Technical Services Co., Ltd. has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1.

4.7 Deviation from Standards

None.

4.8 Abnormalities from Standard Conditions

None.

4.9 Other Information Requested by the Customer

None.



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4.10 Equipment List

| | Conducted Emissio | n | | | |
|------|---------------------------------------|------------------|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | Shielding Room | ZhongYu Electron | GB-88 | SEL0042 | 2013-06-10 |
| 2 | LISN | Rohde & Schwarz | ENV216 | SEL0152 | 2013-10-24 |
| 3 | LISN | ETS-LINDGREN | 3816/2 | SEL0021 | 2013-5-17 |
| 4 | Coaxial Cable | SGS | N/A | SEL0025 | 2013-05-29 |
| 5 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2013-10-24 |
| 6 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2013-10-24 |
| 7 | Barometer | Chang Chun | DYM3 | SEL0088 | 2013-05-24 |



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| | RE in Chamber | | | | |
|------|------------------------------------|------------------------------------|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | 3m Semi-Anechoic Chamber | ETS-LINDGREN | N/A | SEL0017 | 2013-06-10 |
| 2 | EMI Test Receiver | Rohde & Schwarz | ESIB26 | SEL0023 | 2013-05-17 |
| 3 | EMI Test software | AUDIX | E3 | SEL0050 | N/A |
| 4 | BiConiLog Antenna (26-3000MHz) | ETS-LINDGREN | 3142C | SEL0015 | 2013-10-24 |
| 5 | Double-ridged horn (1-18GHz) | ETS-LINDGREN | 3117 | SEL0006 | 2013-10-24 |
| 6 | Horn Antenna (18-26GHz) | ETS-LINDGREN | 3160 | SEL0076 | 2013-10-24 |
| 7 | Pre-amplifier (0.1-1300MHz) | Agilent Technologies | 8447D | SEL0053 | 2013-05-17 |
| 8 | Pre-Amplifier (0.1-26.5GHz) | Compliance Directions Systems Inc. | PAP-0126 | SEL0168 | 2013-10-24 |
| 9 | Coaxial cable | SGS | N/A | SEL0027 | 2013-05-59 |
| 10 | Coaxial cable | SGS | N/A | SEL0189 | 2013-05-29 |
| 11 | Coaxial cable | SGS | N/A | SEL0121 | 2013-05-29 |
| 12 | Coaxial cable | SGS | N/A | SEL0178 | 2013-05-29 |
| 13 | Band filter | Amindeon | 82346 | SEL0094 | 2013-05-17 |
| 14 | Barometer | Chang Chun | DYM3 | SEL0088 | 2013-05-24 |
| 15 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2013-10-24 |
| 16 | Humidity/ Temperature Indicator | Shanhai Qixiang | ZJ1-2B | SEL0103 | 2013-10-24 |
| 17 | Signal Generator (10M-27GHz) | Rohde & Schwarz | SMR27 | SEL0067 | 2013-05-17 |
| 18 | Signal Generator | Rohde & Schwarz | SMY01 | SEL0155 | 2013-10-24 |
| 19 | Loop Antenna | Beijing Daze | ZN30401 | SEL0203 | 2013-06-04 |



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| | RF connected test | | | | |
|------|---------------------------------------|-------------------------|-----------|------------------|---------------------------|
| Item | Test Equipment | Manufacturer | Model No. | Inventory No. | Cal.Due date (yyyy-mm-dd) |
| 1 | DC Power Supply | Zhao Xin | RXN-305D | SEL0117 | 2013-10-24 |
| 2 | Humidity/ Temperature Indicator | HYGRO | ZJ1-2B | SEL0033 | 2013-10-24 |
| 3 | Spectrum Analyzer | Rohde & Schwarz | FSP | SEL0154 | 2013-10-24 |
| 4 | Coaxial cable | SGS | N/A | SEL0178 | 2013-05-29 |
| 5 | Coaxial cable | SGS | N/A | SEL0179 | 2013-05-29 |
| 6 | Barometer | ChangChun | DYM3 | SEL0088 | 2013-05-24 |
| 7 | Signal Generator | Rohde & Schwarz | SML03 | SEL0068 | 2013-05-17 |
| 8 | Band filter | amideon | 82346 | SEL0094 | 2013-05-17 |
| 9 | POWER METER | R&S | NRVS | SEL0144 | 2013-10-24 |
| 10 | Attenuator | Beijin feihang taida | TST-2-6dB | SEL0205 | 2013-05-17 |
| 11 | Power Divider(splitter) | Agilent Technologies | 11636B | SEL0130 | 2013-10-24 |

Note: The calibration interval is one year, all the instruments are valid.



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5 Test results and Measurement Data

5.1 Antenna Requirement

Standard requirement: 47 CFR Part 15C Section 15.203 /247(c)

15.203 requirement:

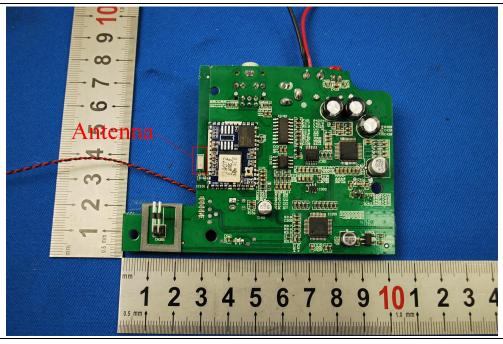
An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit 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(b) (4) requirement:

The conducted output power limit specified in paragraph (b) of this section is based on the use of antennas with directional gains that do not exceed 6 dBi. Except as shown in paragraph (c) of this section, if transmitting antennas of directional gain greater than 6 dBi are used, the conducted output power from the intentional radiator shall be reduced below the stated values in paragraphs (b)(1), (b)(2), and (b)(3) of this section, as appropriate, by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

EUT Antenna:

The antenna is chip antenna on the main PCB and no consideration of replacement. The best case gain of the antenna is 2.5dBi.





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5.2 Conducted Emissions

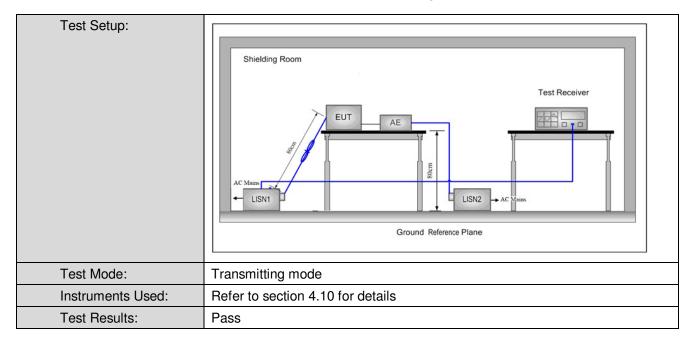
| Test Requirement: | 47 CFR Part 15C Section 15.207 | | | |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|
| Test Method: | ANSI C63.10: 2009 | | | |
| Test Frequency Range: | 150kHz to 30MHz | | | |
| Limit: | Fraguenov rango (MUT) | Limit (c | lBuV) | |
| | Frequency range (MHz) | Quasi-peak | Average | |
| | 0.15-0.5 | 66 to 56* | 56 to 46* | |
| | 0.5-5 | 56 | 46 | |
| | 5-30 | 60 | 50 | |
| | * Decreases with the logarithm | n of the frequency. | | • |
| Test Procedure: | The mains terminal disturb room. | bance voltage test was | s conducted in a ship | elded |
| | The EUT was connected to Impedance Stabilization Not impedance. The power call connected to a second LIS reference plane in the same measured. A multiple sock power cables to a single LI exceeded. The tabletop EUT was place ground reference plane. An placed on the horizontal ground reference with of the EUT shall be 0.4 m for vertical ground reference pareference plane. The LISN unit under test and bonded mounted on top of the group between the closest points the EUT and associated ects. In order to find the maximum equipment and all of the impact of the impa | etwork) which provides oles of all other units of SN 2, which was bondene way as the LISN 1 for the toutlet strip was used ISN provided the rating cound reference plane, the a vertical ground reference olane was bonded to the strip was placed 0.8 m for the a ground reference plane. The strip of the LISN 1 and the quipment was at least the strip of the relative terface cables must be strip of the strip of the relative terface of the strip of the relative terface cables must be | s a 50Ω/50μH + 5Ω lift the EUT were do to the ground or the unit being do to connect multiple gof the LISN was not contained the connect multiple ground and the boundary of the boundary of the plane for LISNs his distance was EUT. All other units 0.8 m from the LISN we positions of | ne was ear ne he of 2. |





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Measurement Data

An initial pre-scan was performed on the live and neutral lines with peak detector.

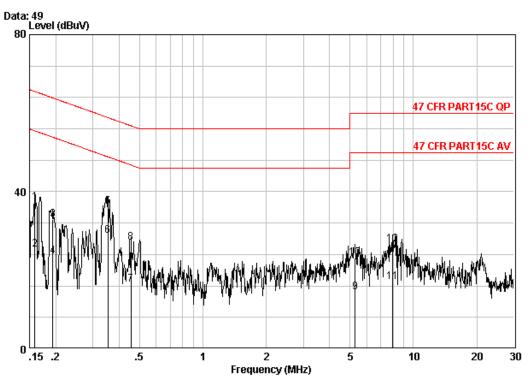
Quasi-Peak and Average measurement were performed at the frequencies with maximized peak emission were detected.



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Live line:



Site : Shielding Room

Condition : 47 CFR PART15C QP CE LINE

Job No. : 6152RF Mode : TX mode

| 101040 | . III IIIO | *** | | | | | | | |
|--------|------------|---------|-------|--------|-------|-------|-------|--------|---------|
| | | | Cable | LISN | Read | | Limit | Over | |
| | | Freq | Loss | Factor | Level | Level | Line | Limit | Remark |
| | _ | | | | | | | | |
| | | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| | | | | | | | | | |
| 1 | | 0.15900 | 0.02 | 9.70 | 27.61 | 37.33 | 65.52 | -28.19 | QP |
| 2 | | 0.15900 | 0.02 | 9.70 | 15.59 | 25.31 | 55.52 | -30.20 | Average |
| 3 | | 0.19344 | 0.02 | 9.70 | 23.18 | 32.90 | 63.89 | -30.99 | QP |
| 4 | | 0.19344 | 0.02 | 9.70 | 13.73 | 23.45 | 53.89 | -30.44 | Average |
| 5 | | 0.35388 | 0.01 | 9.76 | 26.37 | 36.14 | 58.87 | -22.73 | QP |
| 6 | | 0.35388 | 0.01 | 9.76 | 19.02 | 28.79 | 48.87 | -20.08 | Average |
| 7 | | 0.45395 | 0.01 | 9.80 | 6.58 | 16.39 | 46.80 | -30.41 | Average |
| 8 | | 0.45395 | 0.01 | 9.80 | 17.15 | 26.96 | 56.80 | -29.84 | QP |
| 9 | | 5.277 | 0.01 | 9.90 | 4.58 | 14.49 | 50.00 | -35.51 | Average |
| 10 | | 5.277 | 0.01 | 9.90 | 13.15 | 23.06 | 60.00 | -36.94 | QP |
| 11 | | 7.977 | 0.01 | 9.90 | 7.03 | 16.94 | 50.00 | -33.06 | Average |
| 12 | | 7.977 | 0.01 | 9.90 | 16.64 | 26.55 | 60.00 | -33.45 | OP |

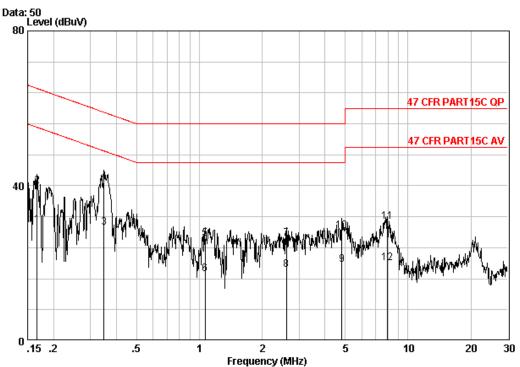
[&]quot;This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at www.sgs.com/terms and conditions.htm and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at www.sgs.com/terms e-document.htm. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."



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Neutral line:



Site : Shielding Room

Condition : 47 CFR PART15C QP CE NEUTRAL

Job No. : 6152RF Mode : TX mode

| | Freq | Cable Loss | LISN Factor | Read Level | Level | Limit Line | Over Limit | Remark |
|-----|---------|---------------|----------------|---------------|-------|---------------|---------------|---------|
| | MHz | dB | dB | dBuV | dBuV | dBuV | dB | |
| 1 | 0.16677 | 0.02 | 9.70 | 20.13 | 29.85 | 55.12 | -25.27 | Average |
| 2 | 0.16677 | 0.02 | 9.70 | 30.18 | 39.90 | 65.12 | -25.22 | QP |
| 3 | 0.34830 | 0.01 | 9.75 | 19.35 | 29.12 | 49.00 | -19.89 | Average |
| 4 0 | 0.34830 | 0.01 | 9.75 | 31.29 | 41.05 | 59.00 | -17.95 | QP |
| 5 | 1.065 | 0.02 | 9.80 | 16.53 | 26.35 | 56.00 | -29.65 | QP |
| 6 | 1.065 | 0.02 | 9.80 | 7.33 | 17.15 | 46.00 | -28.85 | Average |
| 7 | 2.608 | 0.02 | 9.83 | 16.52 | 26.37 | 56.00 | -29.63 | QP |
| 8 | 2.608 | 0.02 | 9.83 | 8.44 | 18.28 | 46.00 | -27.72 | Average |
| 9 | 4.822 | 0.01 | 9.90 | 9.68 | 19.59 | 46.00 | -26.41 | Average |
| 10 | 4.822 | 0.01 | 9.90 | 18.53 | 28.44 | 56.00 | -27.56 | QP |
| 11 | 7.935 | 0.01 | 10.00 | 20.63 | 30.64 | 60.00 | -29.36 | QP |
| 12 | 7.935 | 0.01 | 10.00 | 10.12 | 20.13 | 50.00 | -29.87 | Average |

Notes:

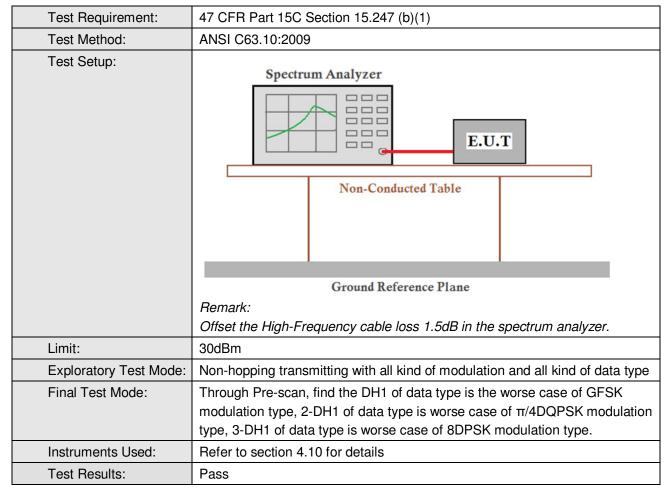
- 1. The following Quasi-Peak and Average measurements were performed on the EUT:
- 2. Final Test Level = Receiver Reading + LISN Factor + Cable Loss.



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5.3 Conducted Peak Output Power





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Measurement Data

| Measurement Data | | | | | | | |
|------------------|-------------------------|-------------|--------|--|--|--|--|
| GFSK mode | | | | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| Lowest | 3.87 | 30.00 | Pass | | | | |
| Middle | 4.12 | 30.00 | Pass | | | | |
| Highest | 4.08 | 30.00 | Pass | | | | |
| | π/4DQPSK mode | | | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| Lowest | 2.89 | 30.00 | Pass | | | | |
| Middle | 3.12 | 30.00 | Pass | | | | |
| Highest | 2.83 | 30.00 | Pass | | | | |
| 8DPSK mode | | | | | | | |
| Test channel | Peak Output Power (dBm) | Limit (dBm) | Result | | | | |
| Lowest | 3.13 | 30.00 | Pass | | | | |
| Middle | 3.20 | 30.00 | Pass | | | | |
| Highest | 2.94 | 30.00 | Pass | | | | |

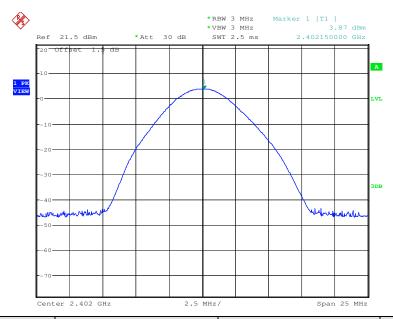


Report No.: SZEM121100615201

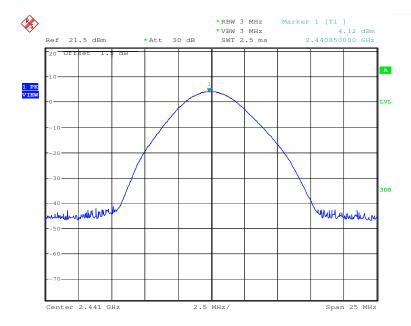
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Test plot as follows:

Test mode: GFSK Test channel: Lowest



Test mode: GFSK Test channel: Middle



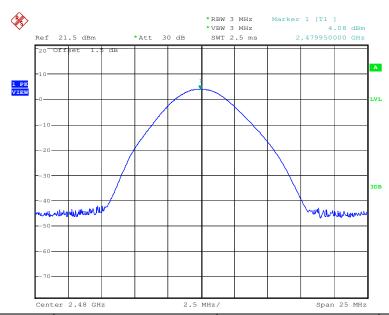
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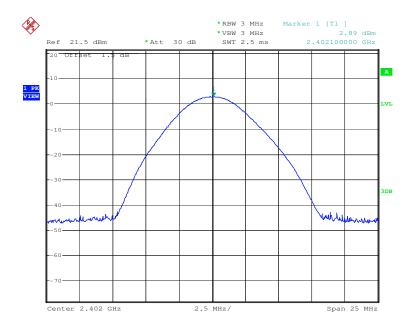
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Test mode: GFSK Test channel: Highest



Test mode: π/4DQPSK Test channel: Lowest



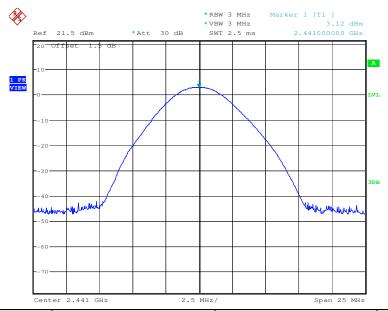
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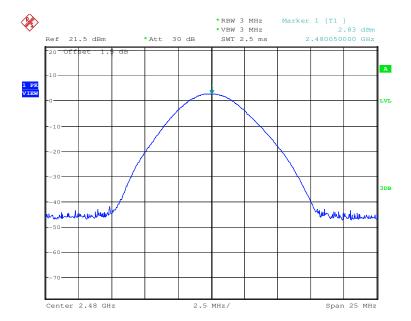
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Test mode: π/4DQPSK Test channel: Middle



Test mode: π/4DQPSK Test channel: Highest



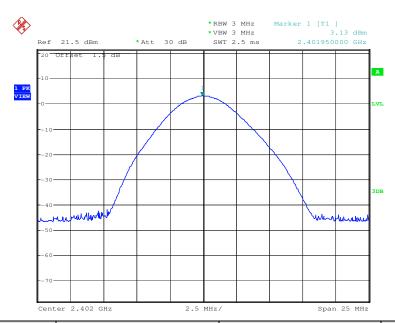
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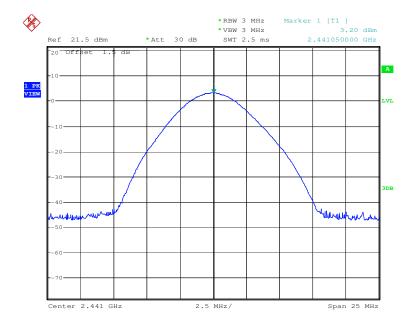
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Test mode: 8DPSK Test channel: Lowest



Test mode: 8DPSK Test channel: Middle



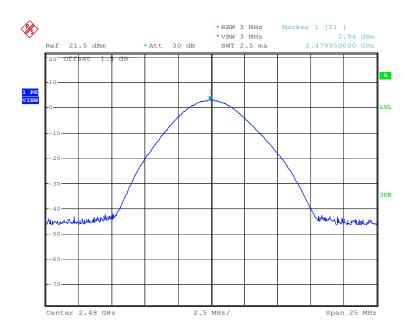
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Test mode: 8DPSK Test channel: Highest



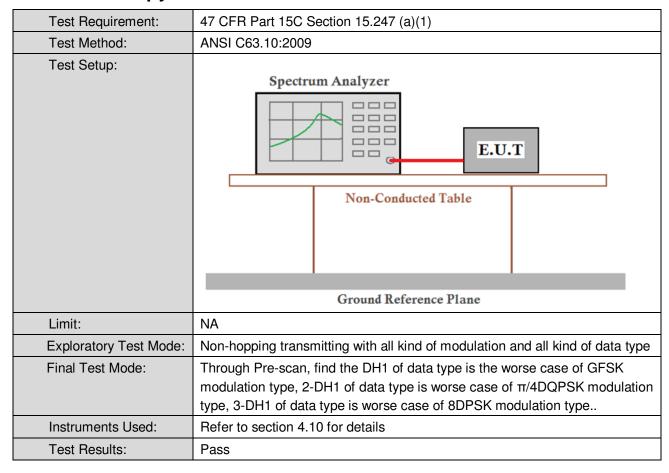




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5.4 20dB Occupy Bandwidth



Measurement Data

| Toot channel | 20dB Occupy Bandwidth (kHz) | | | | |
|--------------|-----------------------------|----------|-------|--|--|
| Test channel | GFSK | π/4DQPSK | 8DPSK | | |
| Lowest | 798 | 1218 | 1212 | | |
| Middle | 792 | 1218 | 1212 | | |
| Highest | 798 | 1218 | 1206 | | |

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Span 3 MHz

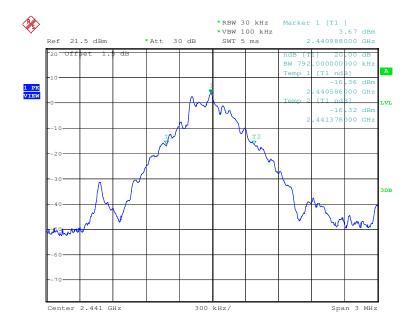
Test plot as follows:





300 kHz/

Center 2.402 GHz

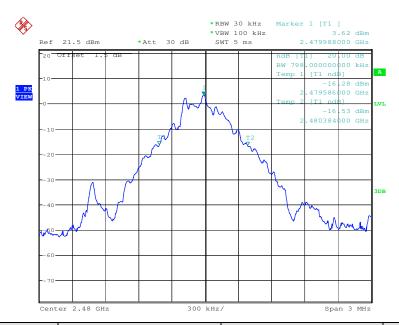




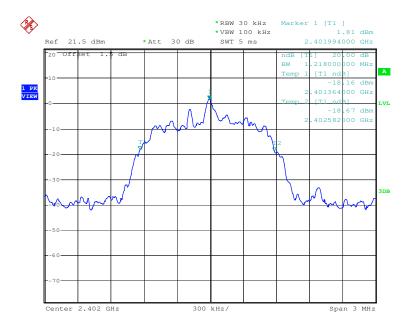
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Test mode: GFSK Test channel: Highest



Test mode: π/4DQPSK Test channel: Lowest



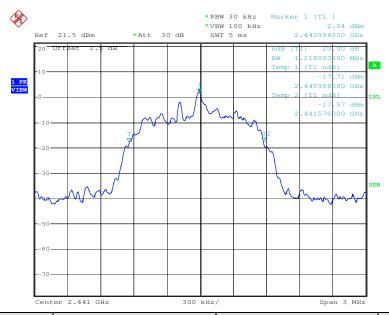
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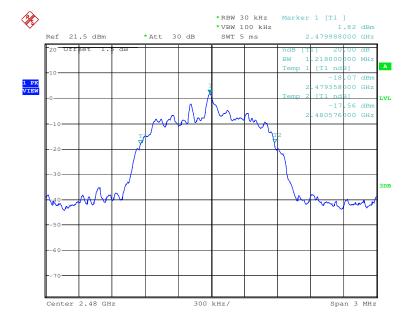
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Test mode: π/4DQPSK Test channel: Middle



Test mode: π/4DQPSK Test channel: Highest



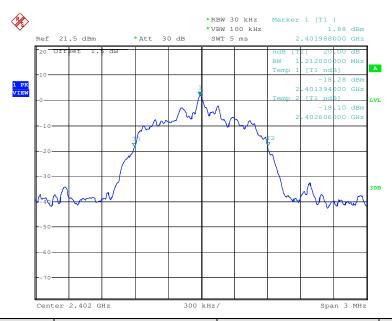
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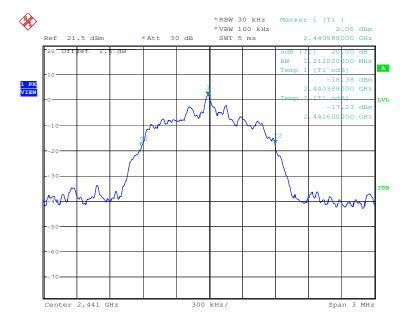
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Test mode: 8DPSK Test channel: Lowest



Test mode: 8DPSK Test channel: Middle



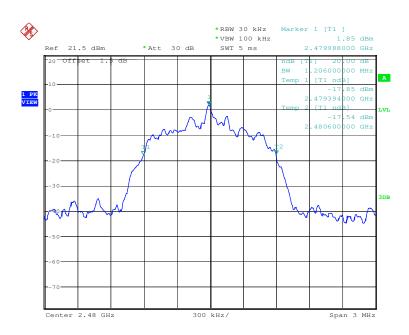
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Test mode: 8DPSK Test channel: Highest

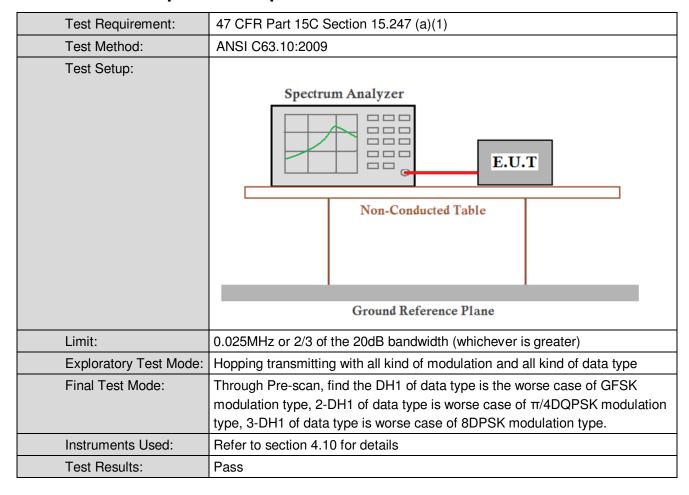




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5.5 Carrier Frequencies Separation





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Measurement Data

| GFSK mode | | | | | |
|--------------|-----------------------------------------|-------------|--------|--|--|
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result | | |
| Lowest | 1005 | ≥812 | Pass | | |
| Middle | 1000 | ≥812 | Pass | | |
| Highest | 1005 | ≥812 | Pass | | |
| | π/4DQPSK m | ode | | | |
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result | | |
| Lowest | 1000 | ≥812 | Pass | | |
| Middle | 1000 | ≥812 | Pass | | |
| Highest | 1000 | ≥812 | Pass | | |
| 8DPSK mode | | | | | |
| Test channel | Carrier Frequencies Separation (kHz) | Limit (kHz) | Result | | |
| Lowest | 1005 | ≥812 | Pass | | |
| Middle | 1000 | ≥812 | Pass | | |
| Highest | 1005 | ≥812 | Pass | | |

Note: According to section 5.4,

| Mode | 20dB bandwidth (kHz) (worse case) | Limit (kHz) (Carrier Frequencies Separation) | |
|----------|-----------------------------------|----------------------------------------------|--|
| GFSK | 798 | 532 | |
| π/4DQPSK | 1218 | 812 | |
| 8DPSK | 1212 | 808 | |

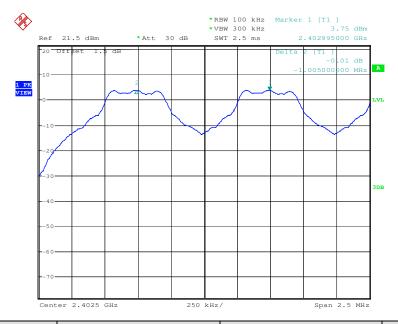


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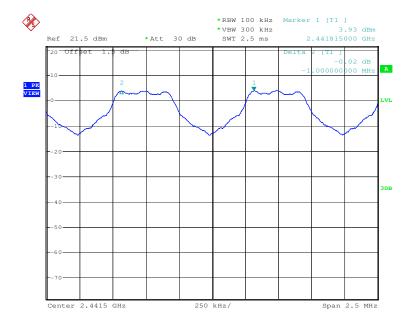
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Test plot as follows:

Test mode: GFSK Test channel: Lowest



Test mode: GFSK Test channel: Middle

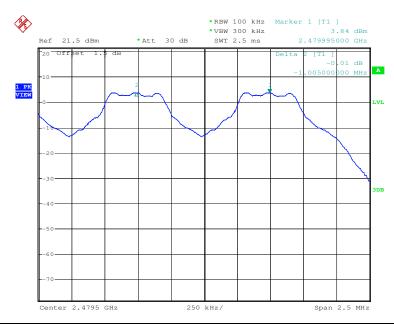




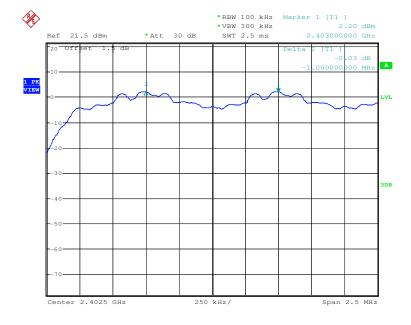
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Test mode: GFSK Test channel: Highest



Test mode: π/4DQPSK Test channel: Lowest



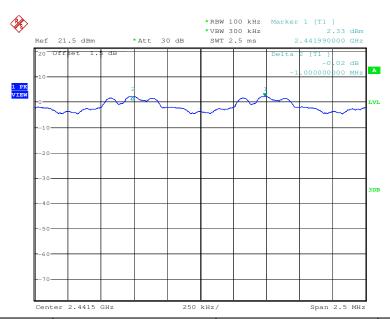




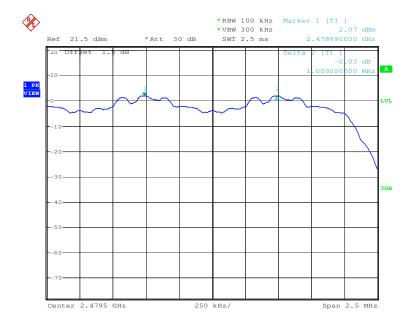
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Test mode: π/4DQPSK Test channel: Middle



Test mode: π/4DQPSK Test channel: Highest



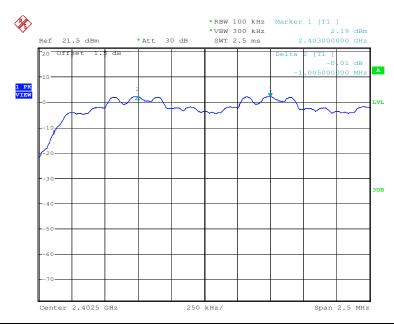
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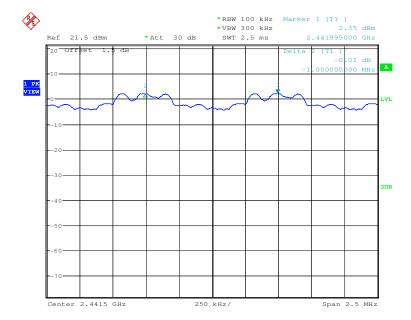
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Test mode: 8DPSK Test channel: Lowest



Test mode: 8DPSK Test channel: Middle



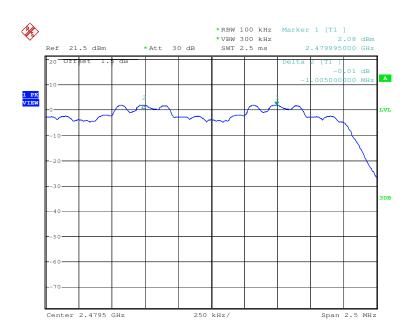
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Test mode: 8DPSK Test channel: Highest

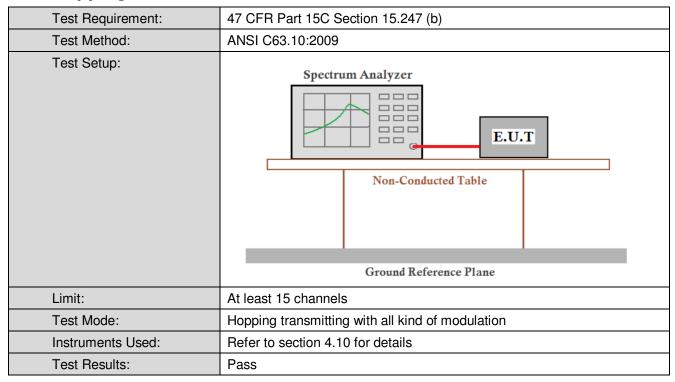




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5.6 Hopping Channel Number



Measurement Data

| Mode | Hopping channel numbers | Limit |
|----------|-------------------------|-------|
| GFSK | 79 | ≥15 |
| π/4DQPSK | 79 | ≥15 |
| 8DPSK | 79 | ≥15 |

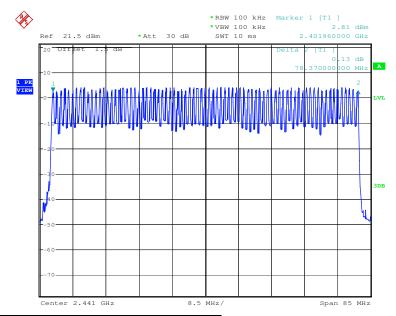


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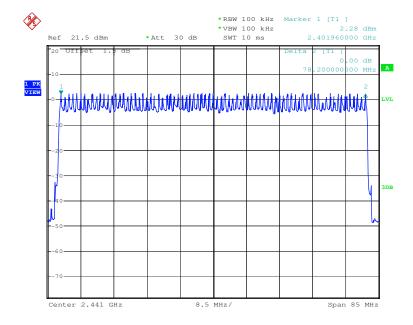
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Test plot as follows:

Test mode: GFSK



Test mode: $\pi/4DQPSK$



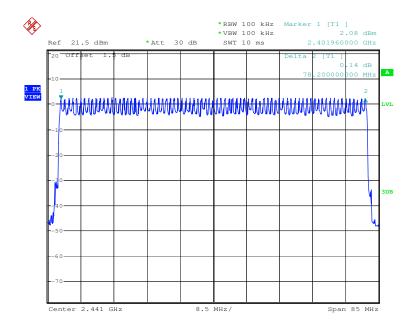
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Test mode: 8DPSK

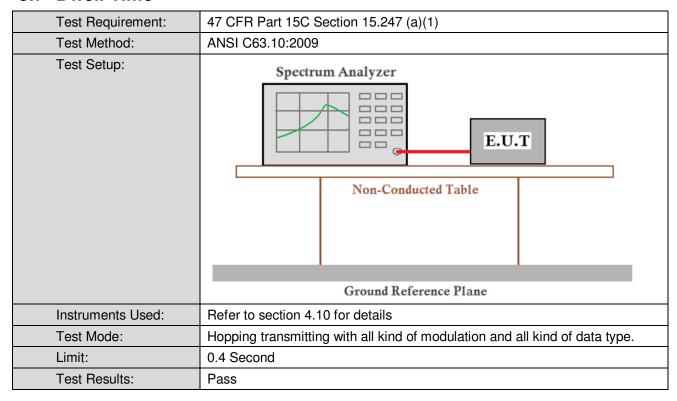




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5.7 Dwell Time



Measurement Data

| Mode | Packet | Dwell time (second) | Limit (second) |
|----------|------------------------------------------|---------------------|----------------|
| | DH1 | 0.1632 | 0.4 |
| GFSK | DH3 | 0.2848 | 0.4 |
| | DH5 | 0.3227 | 0.4 |
| | 2-DH1 | 0.1680 | 0.4 |
| π/4DQPSK | 2-DH3 | 0.2856 | 0.4 |
| | 2-DH5 | 0.1957 | 0.4 |
| | 3-DH1 | 0.1680 | 0.4 |
| 8DPSK | DH1 DH3 DH5 2-DH1 π/4DQPSK 2-DH5 3-DH1 | 0.2856 | 0.4 |
| | 3-DH5 | 0.3248 | 0.4 |

Test Result:

The test period: T= 0.4 Second/Channel x 79 Channel = 31.6 s

The lowest channel (2402MHz), middle channel (2441MHz), highest channel (2480MHz) as below

DH1 time slot=0.510(ms)*(1600/ (2*79))*31.6=163.2 ms

DH3 time slot=1.780(ms)*(1600/ (4*79))*31.6=284.8ms

DH5 time slot=3.025(ms)*(1600/ (6*79))*31.6=322.7ms

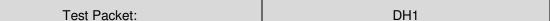
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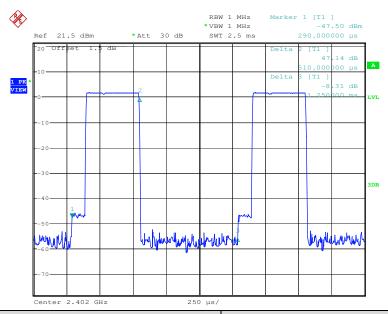


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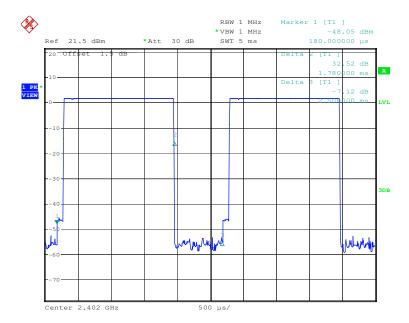
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Test plot as follows:





Test Packet: DH3



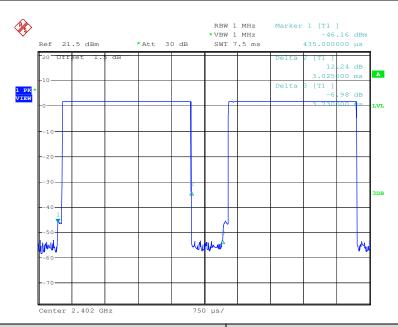
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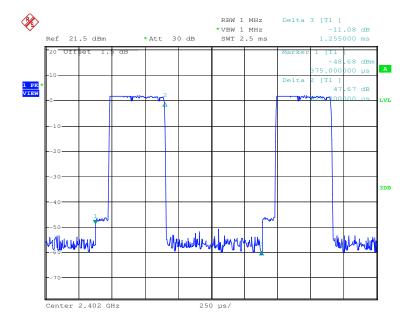
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Test Packet: 2-DH1



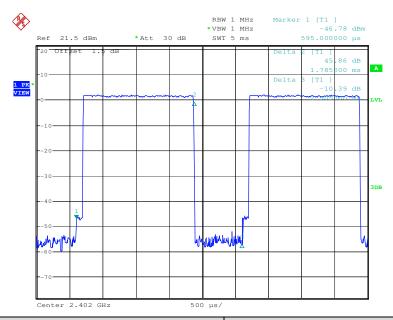
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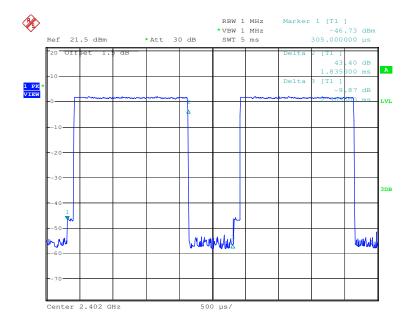
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Test Packet: 2-DH5





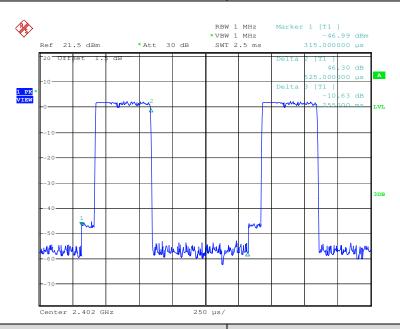
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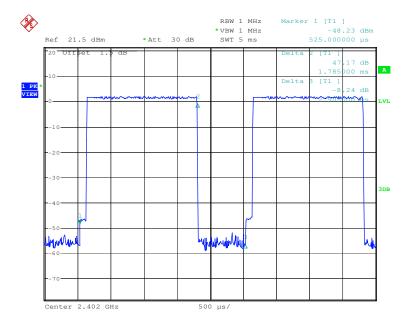
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Test Packet: 3-DH3



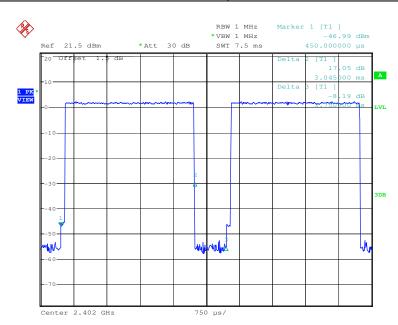
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5.8 Band-edge for RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | | | |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Test Method: | ANSI C63.10:2009 | | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane Remark: | | | |
| Limit: | Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | |
| Exploratory Test Mode: | Hopping transmitting with all kind of modulation and all kind of data type | | | |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worse case of GFSK modulation type, 2-DH5 of data type is worse case of $\pi/4DQPSK$ modulation type, 3-DH5 of data type is worse case of 8DPSK modulation type. | | | |
| Instruments Used: | Refer to section 4.10 for details | | | |
| Test Results: | Pass | | | |

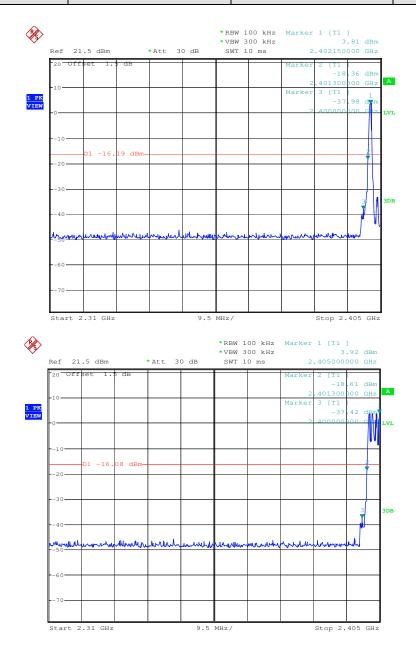


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Test plot as follows:

Test mode: GFSK Test channel: Lowest



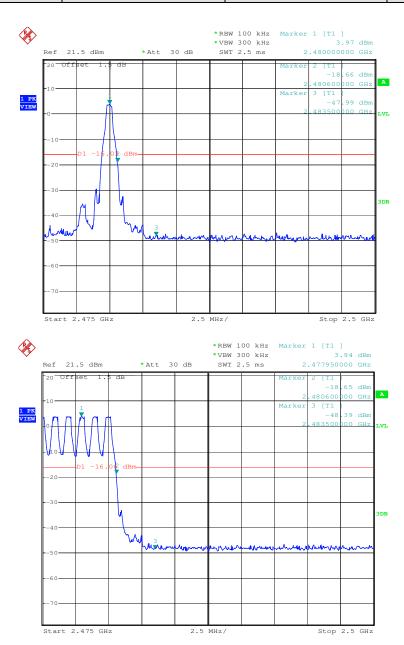
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Test mode: GFSK Test channel: Highest



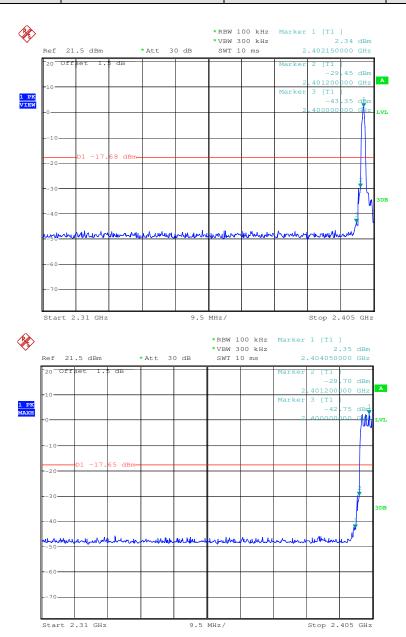
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Test mode: π/4DQPSK Test channel: Lowest



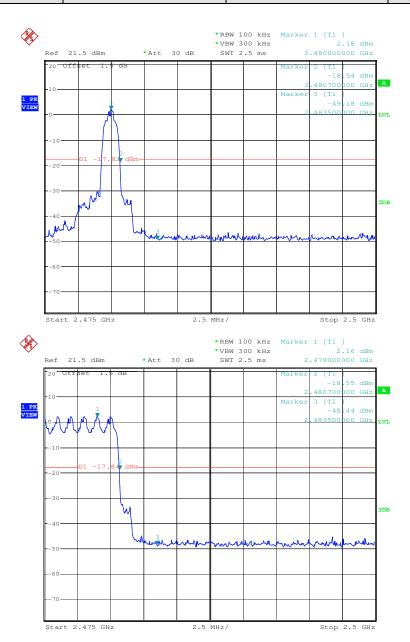
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Test mode: π/4DQPSK Test channel: Highest



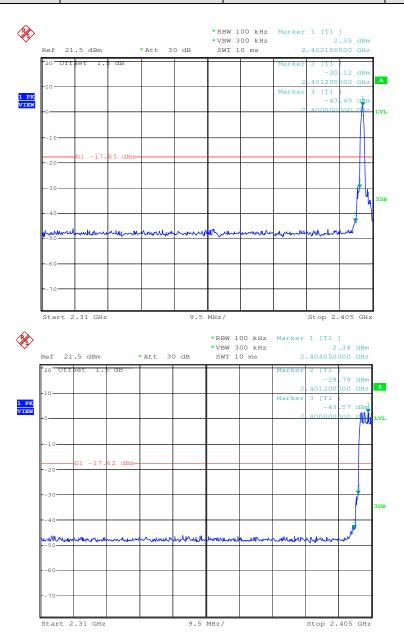
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Test mode: 8DPSK Test channel: Lowest



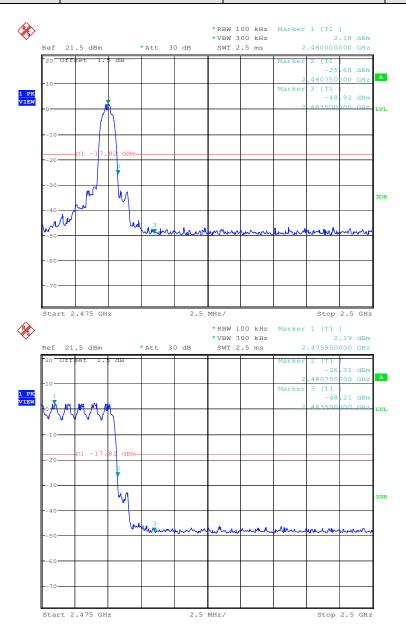
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Test mode: 8DPSK Test channel: Highest





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5.9 Spurious RF Conducted Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (d) | | | | | |
|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10:2009 | | | | | |
| Test Setup: | Spectrum Analyzer E.U.T Non-Conducted Table Ground Reference Plane | | | | | |
| | Remark: Offset the High-Frequency cable loss 1.5dB in the spectrum analyzer. | | | | | |
| Limit: | In any 100 kHz bandwidth outside the frequency band in which the spread spectrum intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement. | | | | | |
| Exploratory Test Mode: | Non-hopping transmitting with all kind of modulation and all kind of data type | | | | | |
| Final Test Mode: | Through Pre-scan, find the DH1 of data type is the worse case of GFSK modulation type, 2-DH1 of data type is worse case of $\pi/4DQPSK$ modulation type, 3-DH1 of data type is worse case of 8DPSK modulation type. | | | | | |
| Instruments Used: | Refer to section 4.10 for details | | | | | |
| Test Results: | Pass | | | | | |



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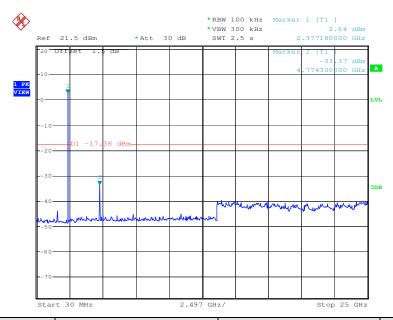


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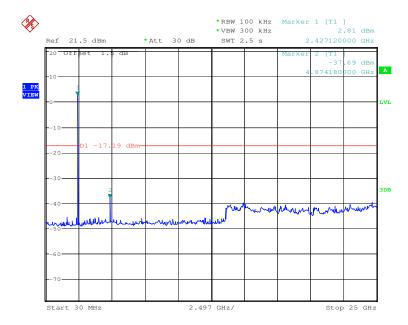
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Test plot as follows:

Test mode: GFSK Test channel: Lowest



Test mode: GFSK Test channel: Middle



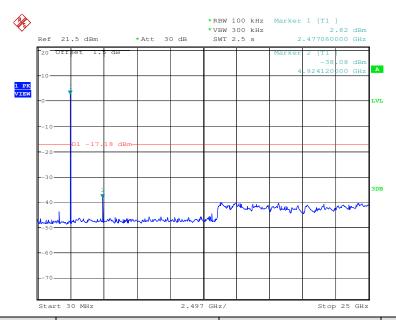
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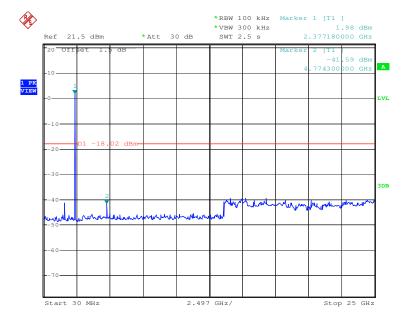
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Test mode: GFSK Test channel: Highest



Test mode: π/4DQPSK Test channel: Lowest



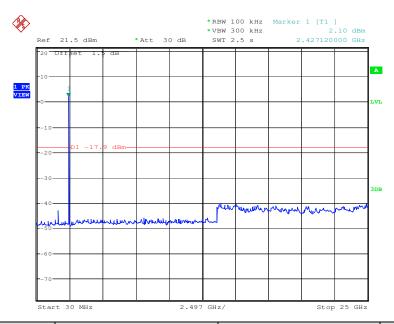
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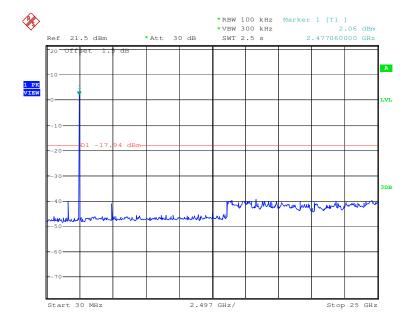
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Test mode: π/4DQPSK Test channel: Middle







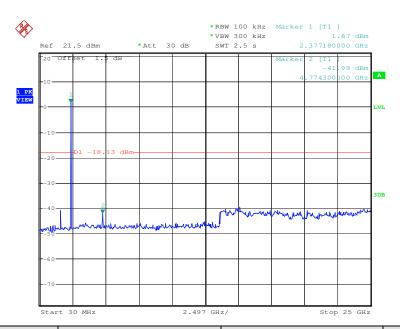
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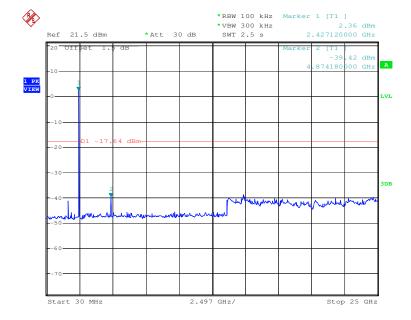
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Test mode: 8DPSK Test channel: Lowest



Test mode: 8DPSK Test channel: Middle



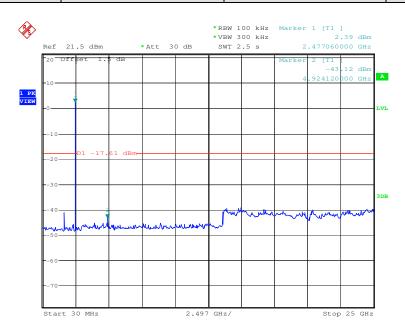
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Test mode: 8DPSK Test channel: Highest





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5.10 Pseudorandom Frequency Hopping Sequence

Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) requirement:

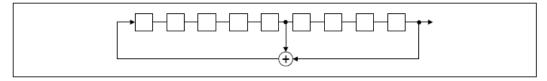
Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater.

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

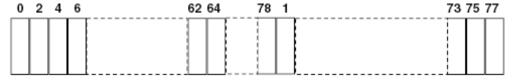
The pseudorandom sequence may be generated in a nine-stage shift register whose 5th and 9th stage outputs are added in a modulo-two addition stage. And the result is fed back to the input of the first stage. The sequence begins with the first ONE of 9 consecutive ONEs; i.e. the shift register is initialized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



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5.11 Radiated Spurious Emission

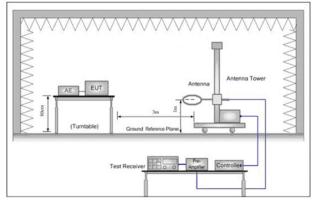
| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | |
|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------|-------------------|------------|--------------------------|--|--|
| Test Method: | ANSI C63.10: 2009 | ANSI C63.10: 2009 | | | | | | |
| Test Site: | Measurement Distance | : 3n | n (Semi-Anech | oic Cham | ıber) | | | |
| Receiver Setup: | Frequency | | Detector | RBW | VBW | Remark | | |
| | 0.009MHz-0.090MH | Z | Peak | 10kHz | z 30kHz | Peak | | |
| | 0.009MHz-0.090MH | z | Average | 10kHz | z 30kHz | Average | | |
| | 0.090MHz-0.110MH | z | Quasi-peak | 10kHz | z 30kHz | Quasi-peak | | |
| | 0.110MHz-0.490MH | Z | Peak | 10kHz | z 30kHz | Peak | | |
| | 0.110MHz-0.490MH | Z | Average | 10kHz | z 30kHz | Average | | |
| | 0.490MHz -30MHz | | Quasi-peak | 10kHz | z 30kHz | Quasi-peak | | |
| | 30MHz-1GHz | | Quasi-peak | 100 kH | lz 300kHz | Quasi-peak | | |
| | Above 1GHz | | Peak | 1MHz | z 3MHz | Peak | | |
| | Above IGHZ | | Peak | 1MHz | 10Hz | Average | | |
| Limit: | Frequency | | eld strength crovolt/meter) | Limit (dBuV/m) | Remark | Measureme distance (m | | |
| | 0.009MHz-0.490MHz | 2 | 400/F(kHz) | - | - | 300 | | |
| | 0.490MHz-1.705MHz | 24 | 1000/F(kHz) | - | - | 30 | | |
| | 1.705MHz-30MHz | | 30 | - | - | 30 | | |
| | 30MHz-88MHz | | 100 | 40.0 | Quasi-peak | 3 | | |
| | 88MHz-216MHz | | 150 | 43.5 | Quasi-peak | 3 | | |
| | 216MHz-960MHz | | 200 | 46.0 | Quasi-peak | 3 | | |
| | 960MHz-1GHz | | 500 | 54.0 | Quasi-peak | 3 | | |
| | Above 1GHz | 500 | 54.0 | Average | 3 | | | |
| | Note: 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. | | | | | | | |



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Test Setup:



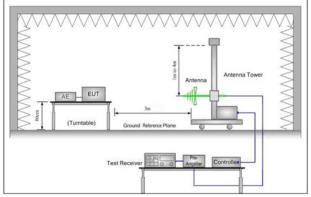


Figure 1. Below 30MHz

Figure 2. 30MHz to 1GHz

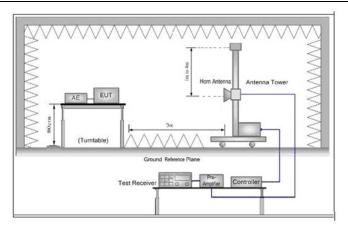


Figure 3. Above 1 GHz

Test Procedure:

- a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB

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| | margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet. g. Test the EUT in the lowest channel (2402MHz),the middle channel (2441MHz),the Highest channel (2480MHz) h. Repeat above procedures until all frequencies measured was complete. | | | |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|--|
| Exploratory Test Mode: | Non-hopping transmitting mode with all kind of modulation and all kind of data type | | | |
| Final Test Mode: | Through Pre-scan, find the DH1 of data type is the worse case of GFSK modulation type | | | |
| Instruments Used: | Refer to section 4.10 for details | | | |
| Test Results: | Pass | | | |

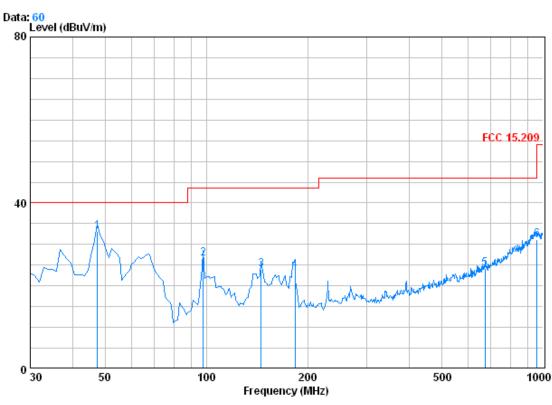


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5.11.1 Radiated Emission below 1GHz

| 30MHz~1GHz (QP) | | |
|-----------------|--------------|----------|
| Test mode: | Transmitting | Vertical |



Condition : FCC 15.209 3m 3142C NEW VERTICAL

EUT : 6152RF MODE : TX mode

| | Freq | | Antenna Factor | Preamp Factor | Read Level | | Limit Line | Over Limit |
|-----|---------|------|-------------------|------------------|---------------|--------|---------------|---------------|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 | 47.460 | 0.75 | 8.38 | 27.30 | 51.35 | 33.18 | 40.00 | -6.82 |
| 2 | 97.900 | 1.18 | 6.20 | 27.20 | 46.42 | 26.60 | 43.50 | -16.90 |
| 3 | 145.430 | 1.31 | 9.00 | 26.93 | 40.52 | 23.90 | 43.50 | -19.60 |
| 4 | 183.260 | 1.37 | 6.70 | 26.76 | 42.49 | 23.80 | 43.50 | -19.70 |
| 5 | 673.110 | 2.85 | 16.40 | 27.45 | 32.45 | 24.26 | 46.00 | -21.74 |
| 6 | 959.260 | 3.66 | 21.10 | 26.51 | 32.93 | 31.19 | 46.00 | -14.81 |

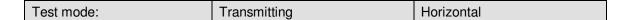


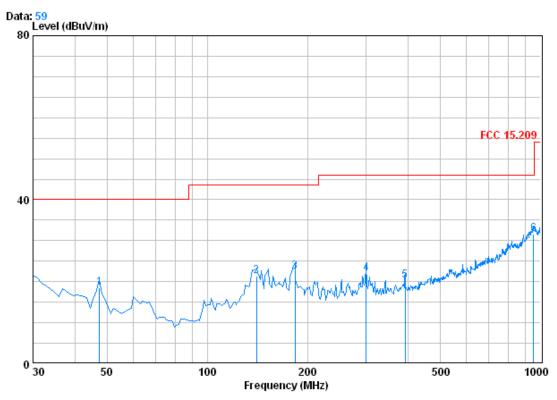
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Condition : FCC 15.209 3m 3142C NEW HORIZONTAL

EUT : 6152RF MODE : TX mode

| | | CableA | ıntenna | Preamp | Read | | Limit | Over |
|---|---------|--------|---------|--------|-------|--------|--------|--------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 47.460 | 0.75 | 8.38 | 27.30 | 36.67 | 18.50 | 40.00 | -21.50 |
| 2 | 140.580 | 1.30 | 8.64 | 26.95 | 38.30 | 21.28 | 43.50 | -22.22 |
| 3 | 183.260 | 1.37 | 6.70 | 26.76 | 41.22 | 22.54 | 43.50 | -20.96 |
| 4 | 299.660 | 1.90 | 9.66 | 26.41 | 36.95 | 22.10 | 46.00 | -23.90 |
| 5 | 392.780 | 2.18 | 11.66 | 27.09 | 33.58 | 20.32 | 46.00 | -25.68 |
| 6 | 952.470 | 3.65 | 21.30 | 26.54 | 33.11 | 31.53 | 46.00 | -14.47 |

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5.11.2 Transmitter Emission above 1GHz

| Worse case i | mode: | GFSK(DH1) | Test | channel: | Lowest | Rema | ırk: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3588.939 | 5.88 | 33.30 | 40.73 | 46.46 | 44.91 | 74 | -29.09 | Vertical |
| 4785.075 | 7.42 | 34.73 | 41.61 | 52.77 | 53.31 | 74 | -20.69 | Vertical |
| 6478.053 | 8.14 | 36.26 | 40.51 | 46.78 | 50.67 | 74 | -23.33 | Vertical |
| 7413.726 | 8.99 | 35.97 | 39.69 | 46.63 | 51.90 | 74 | -22.10 | Vertical |
| 9538.543 | 9.67 | 37.23 | 37.86 | 43.00 | 52.04 | 74 | -21.96 | Vertical |
| 11603.960 | 11.00 | 38.50 | 38.11 | 41.92 | 53.31 | 74 | -20.69 | Vertical |
| 3738.129 | 6.11 | 33.49 | 40.84 | 46.28 | 45.04 | 74 | -28.96 | Horizontal |
| 4785.075 | 7.42 | 34.73 | 41.61 | 51.81 | 52.35 | 74 | -21.65 | Horizontal |
| 6478.053 | 8.14 | 36.26 | 40.51 | 47.00 | 50.89 | 74 | -23.11 | Horizontal |
| 7413.726 | 8.99 | 35.97 | 39.69 | 46.50 | 51.77 | 74 | -22.23 | Horizontal |
| 9538.543 | 9.67 | 37.23 | 37.86 | 42.73 | 51.77 | 74 | -22.23 | Horizontal |
| 11963.890 | 11.26 | 38.87 | 38.26 | 41.22 | 53.09 | 74 | -20.91 | Horizontal |

| Worse case | mode: | GFSK(DH1 |) Tes | t channel: | Middle | | Rem | ark: | Peak |
|-----------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|-------------------|-----|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit L (dBuV/ | - | Over Limit (dB) | Polarization |
| 3738.129 | 6.11 | 33.49 | 40.84 | 46.67 | 45.43 | 74 | | -28.57 | Vertical |
| 4883.519 | 7.48 | 34.59 | 41.68 | 51.22 | 51.61 | 74 | | -22.39 | Vertical |
| 6172.197 | 8.03 | 35.90 | 40.78 | 46.85 | 50.00 | 74 | | -24.00 | Vertical |
| 7547.013 | 9.14 | 36.00 | 39.57 | 45.69 | 51.26 | 74 | | -22.74 | Vertical |
| 9441.913 | 9.66 | 37.14 | 37.94 | 43.25 | 52.11 | 74 | | -21.89 | Vertical |
| 11370.050 | 10.84 | 38.43 | 38.02 | 42.21 | 53.46 | 74 | | -20.54 | Vertical |
| 3662.775 | 5.98 | 33.41 | 40.79 | 46.18 | 44.78 | 74 | | -29.22 | Horizontal |
| 4883.519 | 7.48 | 34.59 | 41.68 | 50.82 | 51.21 | 74 | | -22.79 | Horizontal |
| 6428.771 | 8.12 | 36.20 | 40.55 | 47.21 | 50.98 | 74 | | -23.02 | Horizontal |
| 7489.599 | 9.08 | 36.00 | 39.62 | 45.90 | 51.36 | 74 | | -22.64 | Horizontal |
| 9370.083 | 9.65 | 37.03 | 37.99 | 43.07 | 51.76 | 74 | _ | -22.24 | Horizontal |
| 11722.720 | 11.08 | 38.62 | 38.16 | 41.08 | 52.62 | 74 | | -21.38 | Horizontal |



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| Worse case | mode: | GFSK(DH1 |) Tes | t channel: | Highest | Ren | nark: | Peak |
|--------------------|-----------------------|-----------------------------|--------------------------|-------------------------|-------------------|------------------------|-----------------------|--------------|
| Frequency (MHz) | Cable Loss (dB) | Antenna Factor (dB/m) | Preamp Factor (dB) | Read Level (dBuV) | Level (dBuV/m) | Limit Line (dBuV/m) | Over Limit (dB) | Polarization |
| 3634.910 | 5.95 | 33.37 | 40.77 | 46.35 | 44.90 | 74 | -29.10 | Vertical |
| 4971.316 | 7.53 | 34.43 | 41.75 | 52.03 | 52.24 | 74 | -21.76 | Vertical |
| 6494.564 | 8.15 | 36.28 | 40.50 | 46.18 | 50.11 | 74 | -23.89 | Vertical |
| 7702.278 | 9.24 | 36.00 | 39.44 | 44.85 | 50.65 | 74 | -23.35 | Vertical |
| 9346.262 | 9.65 | 37.01 | 38.03 | 43.04 | 51.67 | 74 | -22.33 | Vertical |
| 11226.250 | 10.73 | 38.45 | 37.95 | 41.62 | 52.85 | 74 | -21.15 | Vertical |
| 3598.087 | 5.90 | 33.32 | 40.74 | 46.81 | 45.29 | 74 | -28.71 | Horizontal |
| 4971.316 | 7.53 | 34.43 | 41.75 | 53.36 | 53.57 | 74 | -20.43 | Horizontal |
| 6428.771 | 8.12 | 36.20 | 40.55 | 45.75 | 49.52 | 74 | -24.48 | Horizontal |
| 7470.558 | 9.05 | 35.99 | 39.64 | 45.62 | 51.02 | 74 | -22.98 | Horizontal |
| 9465.979 | 9.66 | 37.16 | 37.91 | 42.56 | 51.47 | 74 | -22.53 | Horizontal |
| 11722.720 | 11.08 | 38.62 | 38.16 | 41.55 | 53.09 | 74 | -20.91 | Horizontal |

Remark:

- 1) The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:
 - Final Test Level = Receiver Reading + Antenna Factor + Cable Factor Preamplifier Factor
- 2) The disturbance above 13GHz and below 30MHz was very low, and the above harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.
- 3) As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

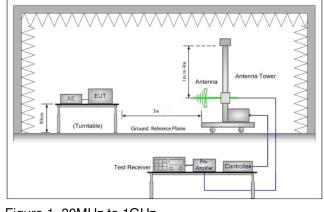


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5.12Band edge (Radiated Emission)

| Test Requirement: | 47 CFR Part 15C Section 15.209 and 15.205 | | | | | | | |
|-------------------|-------------------------------------------|-----------------------|------------------|--|--|--|--|--|
| Test Method: | ANSI C63.10: 2009 | | | | | | | |
| Test Site: | Measurement Distance: 3m | (Semi-Anechoic Chambe | r) | | | | | |
| Limit: | Frequency | Limit (dBuV/m @3m) | Remark | | | | | |
| | 30MHz-88MHz | 40.0 | Quasi-peak Value | | | | | |
| | 88MHz-216MHz | 43.5 | Quasi-peak Value | | | | | |
| | 216MHz-960MHz | 46.0 | Quasi-peak Value | | | | | |
| | 960MHz-1GHz | 54.0 | Quasi-peak Value | | | | | |
| | Above 1GHz | 54.0 | Average Value | | | | | |
| | Above IGHZ | 74.0 | Peak Value | | | | | |
| | | | | | | | | |
| Test Setup: | | | | | | | | |



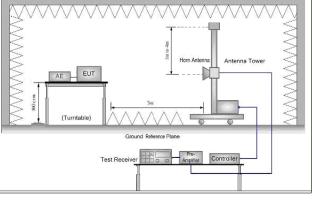


Figure 1. 30MHz to 1GHz

Figure 2. Above 1 GHz



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| Test Procedure: | a. The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic camber. The table was rotated 360 degrees to determine the position of the highest radiation. b. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | make the measurement. d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. f. Place a marker at the end of the restricted band closest to the transmit frequency to show compliance. Also measure any emissions in the restricted bands. Save the spectrum analyzer plot. Repeat for each power and modulation for lowest and highest channel g. Test the EUT in the lowest channel , the Highest channel h. Repeat above procedures until all frequencies measured was complete. |
| Exploratory Test Mode: | Non-hopping transmitting mode with all kind of modulation and all kind of data type |
| Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worse case of GFSK modulation type |
| Instruments Used: | Refer to section 4.10 for details |
| Test Results: | Pass |

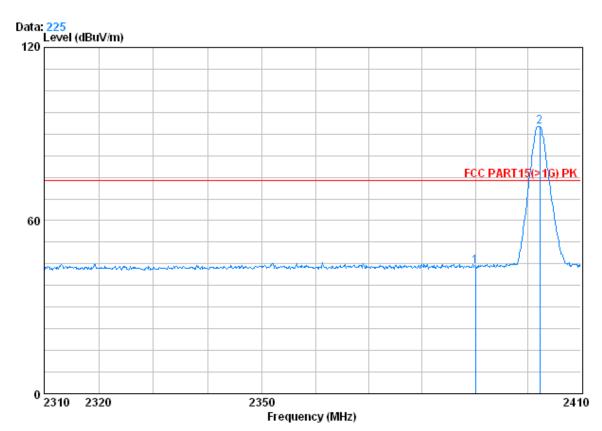


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Test plot as follows:

Worse case mode: GFSK (DH5) Test channel: Lowest Remark: Peak Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. : 6152RF

Mode : 2402 Bandedge PK

| | Freq | | | Preamp Factor | | | | |
|----------|----------------------|----|------|------------------|------|--------|--------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 2 X | 2390.000 2402.200 | | | 39.85 39.86 | | | | |

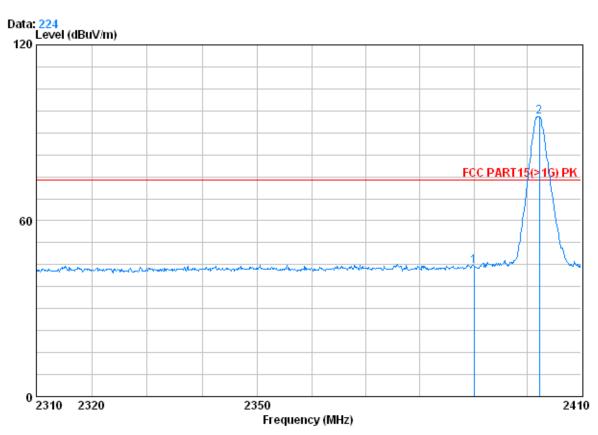
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Worse case mode: GFSK (DH5) Test channel: Lowest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6152RF

Mode : 2402 Bandedge PK

| | | Freq | | | Preamp Factor | | | | |
|---|---|----------|------|-------|------------------|-------|--------|--------|--------|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | | 2390.000 | 2.98 | 32.51 | 39.85 | 48.86 | 44.51 | 74.00 | -29.49 |
| 2 | X | 2402.200 | 2.98 | 32.51 | 39.86 | 99.86 | 95.49 | 74.00 | 21.49 |

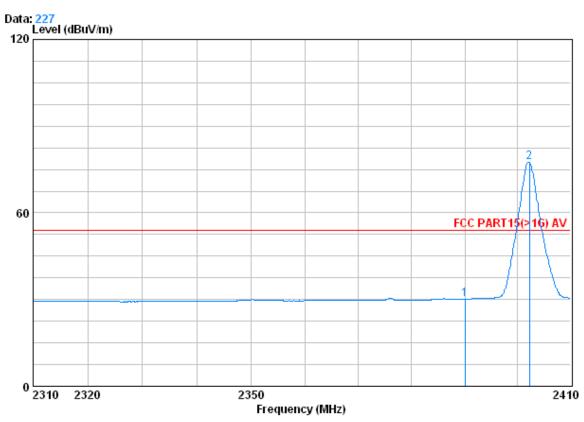
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Worse case mode: GFSK (DH5) Test channel: Lowest Remark: Average Vertical



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 6152RF

Mode : 2402 Bandedge AV

| | Ü | | | Preamp Factor | | | | |
|---|----------------------|----|------|------------------|------|--------|--------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 2390.000 2402.200 | | | 39.85 39.86 | | | | |

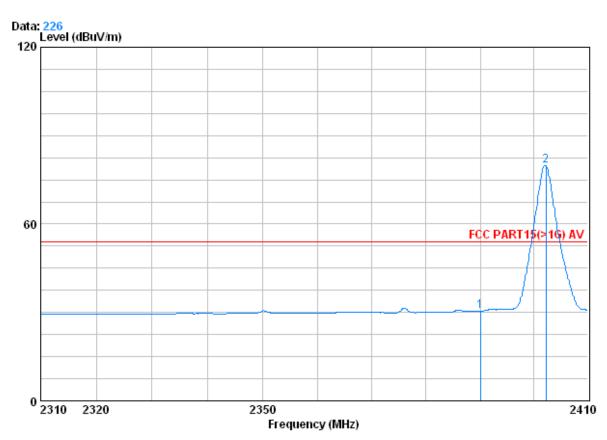
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Worse case mode: GFSK (DH5) Test channel: Lowest Remark: Average Horizontal



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 6152RF

Mode : 2402 Bandedge AV

| | | Freq | | | Preamp Factor | | | | |
|---|---|----------------------|----|------|------------------|------|--------|--------|----|
| | | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 | 0 | 2390.000 2402.200 | | | 39.85 39.86 | | | | |

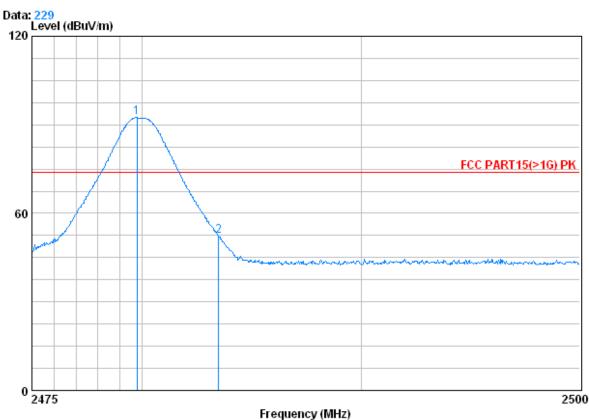
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Peak Worse case mode: GFSK (DH5) Test channel: Highest Remark: Vertical



Condition : FCC PART15(>1G) PK 3m VERTICAL

Job No. :6152RF

Mode : 2480 Bandedge PK

| | | Freq Loss Factor Factor | Level Level Line | Limit |
|------------------------------------------------------|-----|-------------------------|--------------------|-------|
| MHz dB dB/m dB dBuV dBuV/m dBuV/m | | MHz dB dB/m dB | dBuV dBuV/m dBuV/m | dB |
| 1 X 2479.775 3.03 32.67 39.92 96.61 92.39 74.00 18.3 | 1 X | | | |



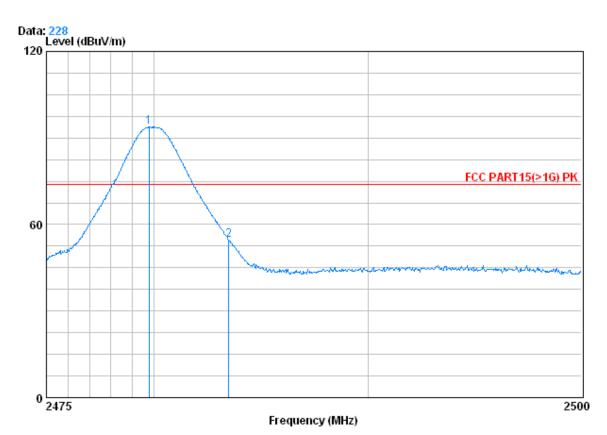
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Worse case mode: GFSK (DH5) Test channel: Highest Remark: Peak Horizontal



Condition : FCC PART15(>1G) PK 3m HORIZONTAL

Job No. : 6152RF

Mode : 2480 Bandedge PK

| | Freq | | | Preamp Factor | | | | |
|-----|----------------------|----|------|------------------|------|--------|--------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 X | 2479.775 2483.500 | | | 39.92 39.92 | | | | |

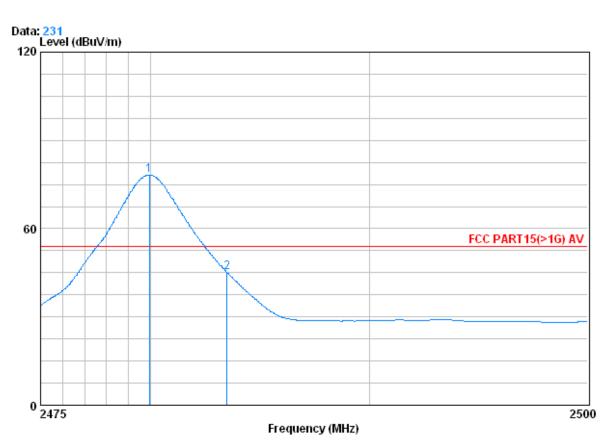
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Worse case mode: GFSK (DH5) Test channel: Highest Remark: Average Vertical



Condition : FCC PART15(>1G) AV 3m VERTICAL

Job No. : 6152RF

Mode : 2480 Bandedge AV

| | | Cablei | Antenna | Preamp | Read | | Limit | Over |
|----------|----------------------|--------|---------|----------------|-------|--------|--------|-------|
| | Freq | Loss | Factor | Factor | Level | Level | Line | Limit |
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 | 2479.950 2483.500 | | | 39.92 39.92 | | | | |

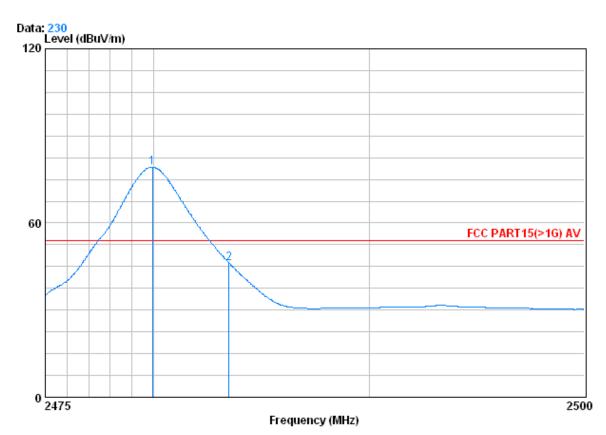
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Worse case mode: GFSK (DH5) Test channel: Highest Remark: Average Horizontal



Condition : FCC PART15(>1G) AV 3m HORIZONTAL

Job No. : 6152RF

Mode : 2480 Bandedge AV

| | Freq | | | Preamp Factor | | Level | | |
|----------|----------------------|----|------|------------------|------|--------|--------|----|
| | MHz | dB | dB/m | dB | dBuV | dBuV/m | dBuV/m | dB |
| 1 0 2 | 2479.950 2483.500 | | | 39.92 39.92 | | | | |

Note.

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier. The basic equation with a sample calculation is as follows:

Final Test Level = Receiver Reading + Antenna Factor + Cable Factor - Preamplifier Factor

As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. So, only the peak measurements were shown in the report.

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