



Page 1 of 57

| | TE: | ST REPORT | | |
|---------------|---|--|--|----------|
| | Product Trade mark Model/Type reference Serial Number Report Number FCC ID Date of Issue Test Standards Test result | : N/A : EED32O8024889 : 2A45F-CV292 : Mar. 07, 2022 : 47 CFR Part 155 : PASS | 01 Subpart C | |
| | Room5c 5th Building2,Ba Street, Nanshan I Centre Testing Hongwei Indust Shenzhe TEL: | botong Technology anDao Chengbang District shenzhen 5 Prepared by: International Grou trial Zone, Bao'an en, Guangdong, Ch +86-755-3368 3668 +86-755-3368 3385 | Garden 2th, Shek 18000 China p Co., Ltd. 70 District, iina | ou |
| | | | | |
| ENTRE TESTING | Compiled by: | • Reviewed by: | Aaron Ma Aaron Ma Mar. 07, 2022 Check No.:47 | 23240222 |
| 3 | | | | |

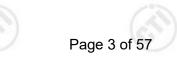




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2 Version







| a | Version No. | Date | | Desc | ription | (D) |
|---|-------------|---------------|---|------|---------|-----|
| C | 00 | Mar. 07, 2022 | C | Or | iginal | C |
| | (A) | (F) | | | (A) | |
| | | | | | | |
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3 Test Summary

| Test Item | Test Requirement | Result |
|---|--|--------|
| Antenna Requirement | 47 CFR Part 15, Subpart C Section 15.203/15.247 (c) | PASS |
| AC Power Line Conducted Emission | 47 CFR Part 15, Subpart C Section 15.207 | N/A |
| Maximum Conducted Output Power | 47 CFR Part 15, Subpart C Section 15.247 (b)(1) | PASS |
| 20dB Emission Bandwidth | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | PASS |
| Carrier Frequency Separation | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | PASS |
| Number of Hopping Channels | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | PASS |
| Time of Occupancy | 47 CFR Part 15, Subpart C Section 15.247 (a)(1) | PASS |
| Pseudorandom Frequency Hopping Sequence | 47 CFR Part 15, Subpart C Section 15.247(b)(4) | PASS |
| Band Edge Measurements | 47 CFR Part 15, Subpart C Section 15.247(d) | PASS |
| Conducted Spurious Emissions | 47 CFR Part 15, Subpart C Section 15.247(d) | PASS |
| Radiated Spurious emissions | 47 CFR Part 15, Subpart C Section 15.205/15.209 | PASS |
| Restricted bands around fundamental frequency | 47 CFR Part 15, Subpart C Section 15.205/15.209 | PASS |

Remark:

Company Name and Address shown on Report, the sample(s) and sample Information were provided by the applicant who should be responsible for the authenticity which CTI hasn't verified.





4 General Information

4.1 Client Information

| Applicant: | | Shenzhen Chebotong Technology Co | o., Ltd. |
|----------------|-------------|---|------------|
| Address of App | olicant: | Room5c 5th Building2, BanDao Cher Nanshan District shenzhen 518000 C | |
| Manufacturer: | | Shenzhen Chebotong Technology Co | o., Ltd. |
| Address of Ma | nufacturer: | Room5c 5th Building2, BanDao Cher Nanshan District shenzhen 518000 C | C C |
| Factory: | | Shenzhen Chebotong Technology Co | o., Ltd. |
| Address of Fac | tory: | Room5c 5th Building2, BanDao Cher Nanshan District shenzhen 518000 C | |
| | | | |

4.2 General Description of EUT

| -01 | Product Name: | Vgate vLinker MC | | ~ |
|-----|-----------------------|---|-----|-----|
| | Model No.: | CV292 | | (A) |
| 2 | Trade Mark: | Vgate、vLinker | | U |
| | Product Type: | Fix Location | | |
| | Operation Frequency: | 2402MHz~2480MHz | -15 | |
| | Modulation Technique: | Frequency Hopping Spread Spectrum(FHSS) | | |
| | Modulation Type: | GFSK, π/4DQPSK, 8DPSK | S | |
| | Number of Channel: | 79 | | |
| | Hopping Channel Type: | Adaptive Frequency Hopping systems | | |
| 2 | Antenna Type: | PCB antenna | | |
| থ | Test Software of EUT: | HCITester Tool_TI | | (O) |
| | Antenna Gain: | 3.5dBi | | |
| | Power Supply: | DC 12V | | |
| | Test Voltage: | DC 12V | | |
| | Sample Received Date: | Feb. 25, 2022 | V | |
| | Sample tested Date: | Feb. 25, 2022 to Mar. 05, 2022 | | |
| | - 11- | | | |



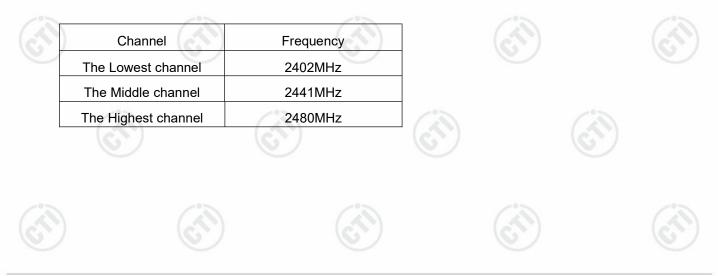


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| Channel | Frequency | Channel | Frequency | Channel | Frequency | Channel | Frequency |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|
| 0 | 2402MHz | 20 | 2422MHz | 40 | 2442MHz | 60 | 2462MHz |
| 1 | 2403MHz | 21 | 2423MHz | 41 | 2443MHz | 61 | 2463MHz |
| 2 | 2404MHz | 22 | 2424MHz | 42 | 2444MHz | 62 | 2464MHz |
| 3 | 2405MHz | 23 | 2425MHz | 43 | 2445MHz | 63 | 2465MHz |
| 4 | 2406MHz | 24 | 2426MHz | 44 | 2446MHz | 64 | 2466MHz |
| 5 | 2407MHz | 25 | 2427MHz | 45 | 2447MHz | 65 | 2467MHz |
| 6 | 2408MHz | 26 | 2428MHz | 46 | 2448MHz | 66 | 2468MHz |
| 7 | 2409MHz | 27 | 2429MHz | 47 | 2449MHz | 67 | 2469MHz |
| 8 | 2410MHz | 28 | 2430MHz | 48 | 2450MHz | 68 | 2470MHz |
| 9 | 2411MHz | 29 | 2431MHz | 49 | 2451MHz | 69 | 2471MHz |
| 10 | 2412MHz | 30 | 2432MHz | 50 | 2452MHz | 70 | 2472MHz |
| 11 | 2413MHz | 31 | 2433MHz | 51 | 2453MHz | 71 | 2473MHz |
| 12 | 2414MHz | 32 | 2434MHz | 52 | 2454MHz | 72 | 2474MHz |
| 13 | 2415MHz | 33 | 2435MHz | 53 | 2455MHz | 73 | 2475MHz |
| 14 | 2416MHz | 34 | 2436MHz | 54 | 2456MHz | 74 | 2476MHz |
| 15 | 2417MHz | 35 | 2437MHz | 55 | 2457MHz | 75 | 2477MHz |
| 16 | 2418MHz | 36 | 2438MHz | 56 | 2458MHz | 76 | 2478MHz |
| 17 | 2419MHz | 37 | 2439MHz | 57 | 2459MHz | 77 | 2479MHz |
| 18 | 2420MHz | 38 | 2440MHz | 58 | 2460MHz | 78 | 2480MHz |
| 19 | 2421MHz | 39 | 2441MHz | 59 | 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:







4.3 Test Configuration

| EUT Test Software Settings | s: | | | | |
|--|--|-------------|---------------|------------------|------------|
| Software: | HCITester Tool_ | TI | | | |
| EUT Power Grade: | Class2 (Power level is built-in set parameters and cannot be changed and selected) | | | | |
| Use test software to set the le transmitting of the EUT. | owest frequency, the | middle free | quency and th | ne highest frequ | iency keep |
| Mode | c | hannel | 1000 | Frequ | ency(MHz) |
| | | CH0 | | (| 2402 |
| DH1/DH3/DH5 | | CH39 | U | | 2441 |
| | | CH78 | | | 2480 |
| | | CH0 | | ~~~ | 2402 |
| 2DH1/2DH3/2DH5 | (| СН39 | | | 2441 |
| | | CH78 | | | 2480 |
| | | CH0 | | | 2402 |
| 3DH1/3DH3/3DH5 | (°) | CH39 | (3) | | 2441 |
| (c.S.) | $(c^{(n)})$ | CH78 | (\tilde{c}) | (| 2480 |









4.4 Test Environment

| Operating Environment | : | | |
|-----------------------|------------|-----|----|
| Radiated Spurious Emi | ssions: | | |
| Temperature: | 22~25.0 °C | | |
| Humidity: | 50~55 % RH | | 13 |
| Atmospheric Pressure: | 1010mbar | (3) | 6 |
| RF Conducted: | | | |
| Temperature: | 22~25.0 °C | | |
| Humidity: | 50~55 % RH | 5 | |
| Atmospheric Pressure: | 1010mbar | (2) | |
| | | 0 |) |

4.5 Description of Support Units

The EUT has been tested with associated equipment below.

| Description | Manufacturer | Model No. | Certification | Supplied by |
|-------------|--------------|---------------|---------------|-------------|
| Netbook | DELL | Latitude 3490 | FCC&CE | CTI |

4.6 Test Location

All tests were performed at:

(F)

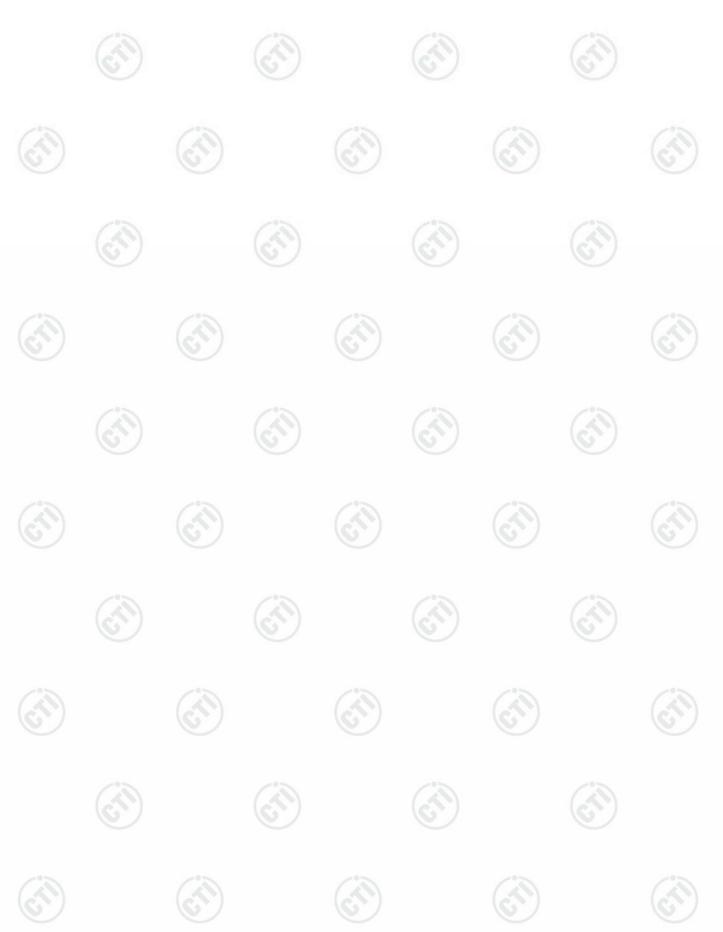
Centre Testing International Group Co., Ltd Building C, Hongwei Industrial Park Block 70, Bao'an District, Shenzhen, China Telephone: +86 (0) 755 33683668 Fax:+86 (0) 755 33683385 No tests were sub-contracted. FCC Designation No.: CN1164

4.7 Measurement Uncertainty (95% confidence levels, k=2)

| No. | Item | Measurement Uncertainty | |
|-----|---------------------------------|-------------------------|--|
| 1 | Radio Frequency | 7.9 x 10 ⁻⁸ | |
| 2 | RF power, conducted | 0.46dB (30MHz-1GHz) | |
| 2 | Kr power, conducted | 0.55dB (1GHz-40GHz) | |
| | | 3.3dB (9kHz-30MHz) | |
| 3 | Radiated Spurious emission test | 4.3dB (30MHz-1GHz) | |
| 3 | Radiated Spundus emission test | 4.5dB (1GHz-18GHz) | |
| | | 3.4dB (18GHz-40GHz) | |
| 4 | Conduction emission | 3.5dB (9kHz to 150kHz) | |
| 4 | Conduction emission | 3.1dB (150kHz to 30MHz) | |
| 5 | Temperature test | 0.64°C | |
| 6 | Humidity test | 3.8% | |
| 7 | DC power voltages | 0.026% | |







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4.8 Equipment List

| | 1 | | | 2. J. | | |
|------------------------|---|--|---|---|--|--|
| RF test system | | | | | | |
| Manufacturer | Mode No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | | |
| Keysight | N9010A | MY54510339 | 12-24-2021 | 12-23-2022 | | |
| Keysight | N5182B | MY53051549 | 12-24-2021 | 12-23-2022 | | |
| Agilent | N5181A | MY46240094 | 12-24-2021 | 12-23-2022 | | |
| Keysight | E3642A | MY56376072 | 12-24-2021 | 12-23-2022 | | |
| R&S | OSP120 | 101374 | 12-24-2021 | 12-23-2022 | | |
| JS Tonscend | JS0806-2 | 158060006 | 12-24-2021 | 12-23-2022 | | |
| R&S | CMW500 | 120765 | 08-04-2021 | 08-03-2022 | | |
| Dong Guang Qin Zhuo | LK-80GA | QZ20150611879 | 12-24-2021 | 12-23-2022 | | |
| biaozhi | HM10 | 1804186 | 06-24-2021 | 06-23-2022 | | |
| JS Tonscend | JS1120-3 | 2.6.77.0518 | | | | |
| | Keysight Keysight Agilent Agilent R&S JS Tonscend R&S Dong Guang Qin Zhuo biaozhi | ManufacturerMode No.KeysightN9010AKeysightN5182BAgilentN5181AKeysightE3642AR&SOSP120JS TonscendJS0806-2R&SCMW500Dong Guang Qin ZhuoLK-80GAbiaozhiHM10 | KeysightN9010AMY54510339KeysightN5182BMY53051549AgilentN5181AMY46240094KeysightE3642AMY56376072R&SOSP120101374JS TonscendJS0806-2158060006R&SCMW500120765Dong Guang Qin ZhuoLK-80GAQ220150611879biaozhiHM101804186 | Manufacturer Mode No. Serial Number Cal. Date (mm-dd-yyyy) Keysight N9010A MY54510339 12-24-2021 Keysight N5182B MY53051549 12-24-2021 Agilent N5181A MY46240094 12-24-2021 Keysight E3642A MY56376072 12-24-2021 R&S OSP120 101374 12-24-2021 JS Tonscend JS0806-2 158060006 12-24-2021 Dong Guang Qin Zhuo LK-80GA QZ20150611879 12-24-2021 biaozhi HM10 1804186 06-24-2021 | | |

| | 3M Semi-an | echoic Chamber (2) | Radiated distu | rbance Test | |
|--|--------------|--------------------|----------------|-------------|------------|
| Equipment | Manufacturer | Model | Serial No. | Cal. Date | Due Date |
| 3M Chamber & Accessory Equipment | TDK | SAC-3 | | 05/24/2019 | 05/23/2022 |
| Receiver | R&S | ESCI7 | 100938-003 | 10/14/2021 | 10/13/2022 |
| TRILOG Broadband Antenna | schwarzbeck | VULB 9163 | 9163-618 | 05/23/2019 | 05/22/2022 |
| Multi device Controller | maturo | NCD/070/10711112 | | - 0 | 0 |
| Horn Antenna | ETS-LINGREN | BBHA 9120D | 9120D-1869 | 04/15/2021 | 04/14/2024 |
| Spectrum Analyzer | R&S | FSP40 | 100416 | 04/29/2021 | 04/28/2022 |
| Microwave Preamplifier | Agilent | 8449B | 3008A02425 | 06/23/2021 | 06/22/2022 |





| | | | (2) | 6 | 12 | |
|------------------------------------|--------------|-------------------|---------------|---------------------------|-------------------------------|--|
| 3M full-anechoic Chamber | | | | | | |
| Equipment | Manufacturer | Model No. | Serial Number | Cal. Date (mm-dd-yyyy) | Cal. Due date (mm-dd-yyyy) | |
| RSE Automatic test software | JS Tonscend | JS36-RSE | 10166 | | - 0 | |
| Receiver | Keysight | N9038A | MY57290136 | 03-04-2021 03-01-2022 | 03-03-2022 02-28-2023 | |
| Spectrum Analyzer | Keysight | N9020B | MY57111112 | 03-04-2021 03-01-2022 | 03-03-2022 02-28-2023 | |
| Spectrum Analyzer | Keysight | N9030B | MY57140871 | 03-04-2021 03-01-2022 | 03-03-2022 02-28-2023 | |
| TRILOG Broadband Antenna | Schwarzbeck | VULB 9163 | 9163-1148 | 04-28-2021 | 04-27-2024 | |
| Horn Antenna | Schwarzbeck | BBHA 9170 | 9170-832 | 04-15-2021 | 04-14-2024 | |
| Horn Antenna | ETS-LINDGREN | 3117 | 57407 | 07-04-2021 | 07-03-2024 | |
| Preamplifier | EMCI | EMC184055SE | 980597 | 05-20-2021 | 05-19-2022 | |
| Preamplifier | EMCI | EMC001330 | 980563 | 04-15-2021 | 04-14-2022 | |
| Preamplifier | JS Tonscend | 980380 | EMC051845SE | 12-24-2021 | 12-23-2022 | |
| Communication test set | R&S | CMW500 | 102898 | 12-24-2021 | 12-23-2022 | |
| Temperature/ Humidity Indicator | biaozhi | GM1360 | EE1186631 | 04-16-2021 | 04-15-2022 | |
| Fully Anechoic Chamber | TDK | FAC-3 | | 01-09-2021 | 01-08-2024 | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0001 | | (2 | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0002 | | | |
| Cable line | Times | SFT205-NMSM-2.50M | 394812-0003 | | | |
| Cable line | Times | SFT205-NMSM-2.50M | 393495-0001 | - (| <u>-</u> | |
| Cable line | Times | EMC104-NMNM-1000 | SN160710 | | 9 | |
| Cable line | Times | SFT205-NMSM-3.00M | 394813-0001 | | | |
| Cable line | Times | SFT205-NMNM-1.50M | 381964-0001 | | (2 | |
| Cable line | Times | SFT205-NMSM-7.00M | 394815-0001 | | | |
| Cable line | Times | HF160-KMKM-3.00M | 393493-0001 | | | |
| | | | | (| | |



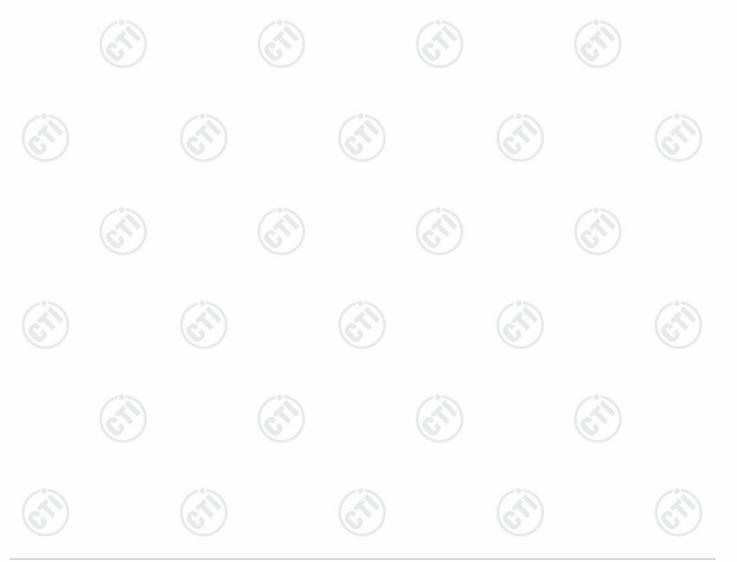


5 Test results and Measurement Data

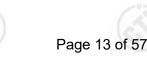
5.1 Antenna Requirement

| Standard requirement: | 47 CFR Part 15C Section 15.203 /247(c) |
|--|---|
| 15.203 requirement: | a designed to ansure that no entenne other than that furnished by the |
| responsible party shall be use antenna that uses a unique c | be designed to ensure that no antenna other than that furnished by the ed with the device. The use of a permanently attached antenna or of an ecoupling to the intentional radiator, the manufacturer may design the unit in be replaced by the user, but the use of a standard antenna jack or ited. |
| 15.247(b) (4) requirement: The conducted output power | limit specified in paragraph (b) of this section is based on the use of |
| section, if transmitting antenn | ns that do not exceed 6 dBi. Except as shown in paragraph (c) of this has of directional gain greater than 6 dBi are used, the conducted output diator shall be reduced below the stated values in paragraphs (b)(1), |
| (b)(2), and (b)(3) of this section antenna exceeds 6 dBi. | on, as appropriate, by the amount in dB that the directional gain of the |

| EUT Antenna: | Please see Internal photos |
|----------------------------|---|
| The antenna is PCB antenna | a. The best case gain of the antenna is 3.5dBi. |







5.2 Maximum Conducted Output Power

| | Test Requirement: | 47 CFR Part 15C Section 15.247 (b)(1) |
|-----|------------------------|--|
| | Test Method: | ANSI C63.10:2013 |
| ŝ | Test Setup: | Control Computer Computer Power Suppl Power TemPERATURE CABINET Table |
| | | Remark: Offset=Cable loss+ attenuation factor. |
| 5 | Test Procedure: | Use the following spectrum analyzer settings: Span = approximately 5 times the 20 dB bandwidth, centered on a hopping channel RBW > the 20 dB bandwidth of the emission being measured VBW ≥ RBW Sweep = auto Detector function = peak Trace = max hold Allow the trace to stabilize. Use the marker-to-peak function to set the marker to the peak of the emission. |
| | Limit: | 21dBm |
| S . | 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 DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| | Test Results: | Refer to Appendix A |
| | | |







5.3 20dB Emission Bandwidth

| Test Requirement: 47 CFR Part 15C Section 15.247 (a)(1) Test Method: ANSI C63.10:2013 Test Setup: Image: Compare the section of the | (STI |
|---|-------------------------|
| Test Setup: | (T) |
| RF test System Instrument Remark: Offset=Cable loss+ attenuation factor. | (T) |
| Remark: Offset=Cable loss+ attenuation factor. | |
| Test Procedure: 1. The RF output of EUT was connected to the spectrum analyzer cable and attenuator. The path loss was compensated to the result measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Use the following spectrum analyzer settings for 20dB Bandwidt measurement. Span = approximately 2 to 5 times the 20 dB bandwidth, centered | lts for each t th |
| hopping channel; 1%≤RBW ≤5% of the 20 dB bandwidth; VBW≥3F Sweep = auto; Detector function = peak; Trace = max hold. 4. Measure and record the results in the test report. | |
| Limit: NA | |
| Exploratory Test Mode: Non-hopping transmitting with all kind of modulation and all kind of | f data type |
| Final Test Mode: Through Pre-scan, find the DH5 of data type is the worst case modulation type, 2-DH5 of data type is the worst case of modulation type, 3-DH5 of data type is the worst case of 8DPSK type. | π/4DQPSk |
| Test Results: Refer to Appendix A | |









5.4 Carrier Frequency Separation

| | Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) |
|---|-----------------------|---|
| | Test Method: | ANSI C63.10:2013 |
| C | Test Setup: | RF test System Power Supply Table RF test System Instrument |
| 1 | | Remark: Offset=Cable loss+ attenuation factor. |
| | Test Procedure: | 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 is set to approximately 30% of the channel spacing, adjust as necessary to best identify the center of each individual channel; VBW≥RBW; Sweep = auto; Detector function = peak; Trace = max hold. Use the marker-delta function to determine the separation between the peaks of the adjacent channels. Record the value in report. |
| | 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. |
| | Exploratory Test Mode | Hopping transmitting with all kind of modulation and all kind of data type |
| 6 | Final Test Mode: | Through Pre-scan, find the DH5 of data type is the worst case of GFSK modulation type, 2-DH5 of data type is the worst case of π /4DQPSK modulation type, 3-DH5 of data type is the worst case of 8DPSK modulation type. |
| Y | Test Results: | Refer to Appendix A |

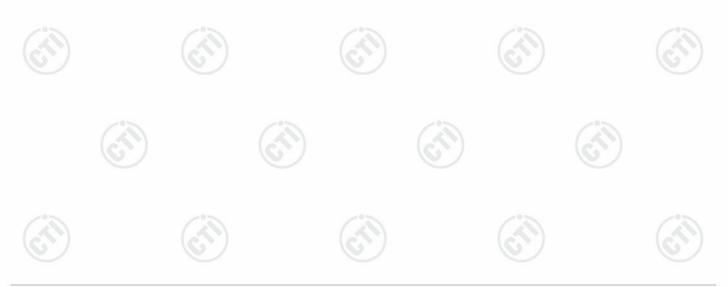






5.5 Number of Hopping Channel

| | Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) | | |
|---|-------------------|--|--|--|
| | Test Method: | ANSI C63.10:2013 | | |
| Č | Test Setup: | Control Control Control Power Supply TemPERATURE CABNET Table | | |
| 2 | Test Procedure: | Remark: Offset=Cable loss+ attenuation factor. 1. 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.2. Set to the maximum power setting and enable the EUT transmit continuously.3. Enable the EUT hopping function. | | |
| | | 4. Use the following spectrum analyzer settings: Span = the frequency band of operation; set the RBW to less than 30% of the channel spacing or the 20 dB bandwidth, whichever is smaller; VBW≥RBW; Sweep= auto; Detector function = peak; Trace = max hold. | | |
| 3 | | 5. The number of hopping frequency used is defined as the number of total channel.6. Record the measurement data in report. | | |
| | Limit: | Frequency hopping systems in the 2400-2483.5 MHz band shall use at least 15 channels. | | |
| | Test Mode: | Hopping transmitting with all kind of modulation | | |
| | Test Mode. | | | |



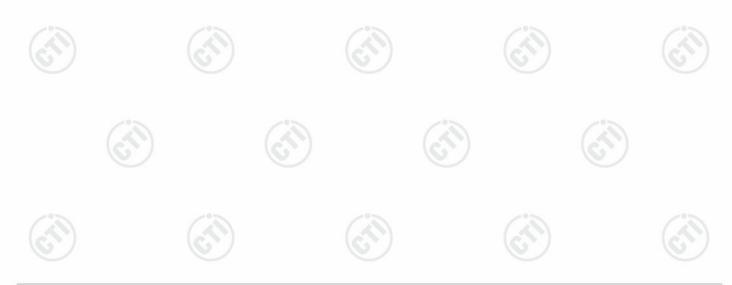






5.6 Time of Occupancy

| | Test Requirement: | 47 CFR Part 15C Section 15.247 (a)(1) | | |
|----------------|-------------------|--|--|--|
| | Test Method: | ANSI C63.10:2013 | | |
| 5 (() | Test Setup: | Control Computer Computer Supply Former Supply Table RF test System Instrument | | |
| 101 | Test Procedure: | Remark: Offset=Cable loss+ attenuation factor.1. The RF output of EUT was connected to the spectrum analyzer by RF | | |
| 20 C | | cable and attenuator. The path loss was compensated to the results for each measurement. 2. Set to the maximum power setting and enable the EUT transmit continuously. 3. Enable the EUT hopping function. 4. Use the following spectrum analyzer settings: Span = zero span, centered on a hopping channel; RBW shall be ≤ channel spacing and where possible RBW should be set >> 1 / T, where T is the expected dwell time per channel; VBW≥RBW; Sweep = as necessary to capture the entire dwell time per hopping channel; Detector function = peak; Trace = max hold. 5. Measure and record the results in the test report. | | |
| 2 | 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 Mode: | Hopping transmitting with all kind of modulation and all kind of data type. | | |
| | Test Results: | Refer to Appendix A | | |
| | S | | | |

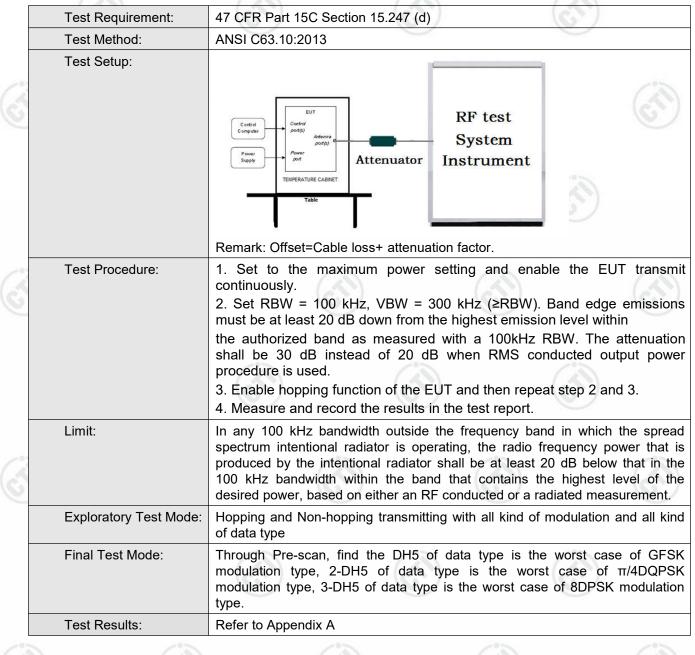








5.7 **Band edge Measurements**





Hotline:400-6788-333





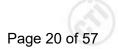


5.8 Conducted Spurious Emissions

| Test Requirement: | 47 CFR Part 15C Section 15.247 (c | (b) |
|------------------------|---|---|
| Test Method: | ANSI C63.10:2013 | |
| Test Setup: | Control Computer Supply TemPerature CABINET Table | RF test System Instrument |
| | Remark: Offset=Cable loss+ attenu | lation factor. |
| Test Procedure: | cable and attenuator. The path loss measurement. 2. Set to the maximum power continuously. 3. Set RBW = 100 kHz, VBW = 30 harmonics / spurs must be at lease level within the authorized band as 4. Measure and record the results in | |
| Limit: | spectrum intentional radiator is opproduced by the intentional radiato 100 kHz bandwidth within the bar | e the frequency band in which the spread erating, the radio frequency power that is r shall be at least 20 dB below that in the nd that contains the highest level of the er an RF conducted or a radiated |
| Exploratory Test Mode: | Non-hopping transmitting with all ki | nd of modulation and all kind of data type |
| Final Test Mode: | modulation type, 2-DH5 of data | of data type is the worst case of GFSK type is the worst case of π /4DQPSK be is the worst case of 8DPSK modulation |
| | 51 | |
| | Test Method: Test Setup: Test Setup: Test Procedure: Limit: Limit: | Test Method: ANSI C63.10:2013 Test Setup: Image: Comparison of the set |



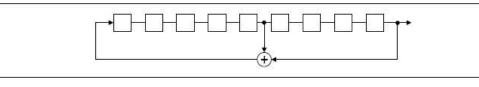




5.9 Pseudorandom Frequency Hopping Sequence

47 CFR Part 15C Section 15.247 (a)(1), (h) requirement: **Test Requirement:** 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. Frequency hopping spread spectrum systems are not required to employ all available hopping channels during each transmission. However, the system, consisting of both the transmitter and the receiver, must be designed to comply with all of the regulations in this section should the transmitter be presented with a continuous data (or information) stream. In addition, a system employing short transmission bursts must comply with the definition of a frequency hopping system and must distribute its transmissions over the minimum number of hopping channels specified in this section. The incorporation of intelligence within a frequency hopping spread spectrum system that permits the system to recognize other users within the spectrum band so that it individually and independently chooses and adapts its hopsets to avoid hopping on occupied channels is permitted. The coordination of frequency hopping systems in any other manner for the express purpose of avoiding the simultaneous occupancy of individual hopping frequencies by multiple transmitters is not permitted. Compliance for section 15.247(a)(1) According to Bluetooth Core Specification, the pseudorandom sequence may be generated in a ninestage 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: 20 62 46 77 7 64 8 73 16 75 1 Each frequency used equally on the average by each transmitter. According to Bluetooth Core Specification, Bluetooth receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any Bluetooth transmitters and shift frequencies in synchronization with the transmitted signals. Compliance for section 15.247(g)

According to Bluetooth Core Specification, the Bluetooth system transmits the packet with the



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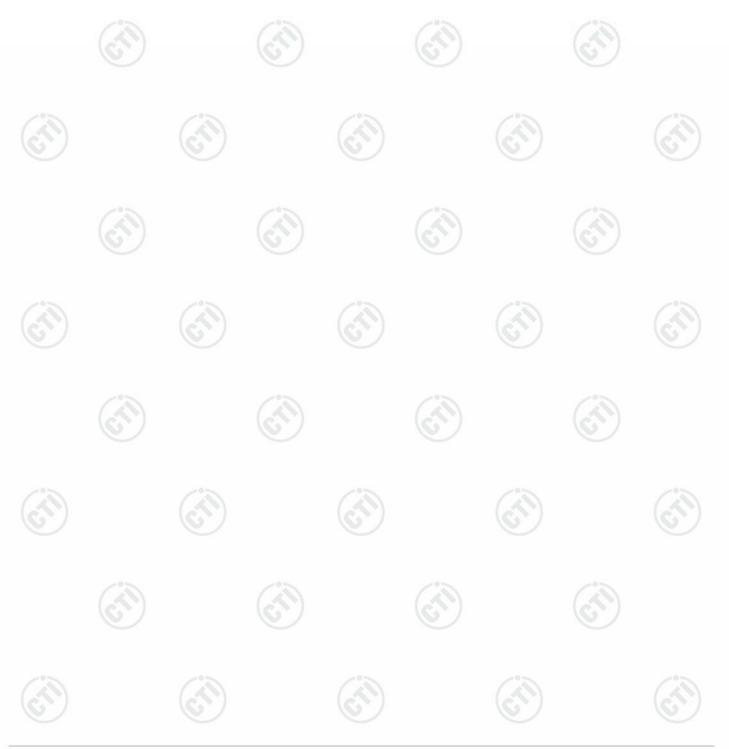


pseudorandom hopping frequency with a continuous data and the short burst transmission from the Bluetooth system is also transmitted under the frequency hopping system with the pseudorandom hopping frequency system.

Compliance for section 15.247(h)

According to Bluetooth Core specification, the Bluetooth system incorporates with an adaptive system to detect other user within the spectrum band so that it individually and independently to avoid hopping on the occupied channels.

According to the Bluetooth Core specification, the Bluetooth system is designed not have the ability to coordinated with other FHSS System in an effort to avoid the simultaneous occupancy of individual hopping frequencies by multiple transmitter.







5.10 Radiated Spurious Emission & Restricted bands

| | | | | | | 1 |
|----------|-------------------|---|-------------------------------------|---------------------------|--------------|---------------------------|
| | Test Requirement: | 47 CFR Part 15C Secti | on 15.209 and 15 | .205 | C | |
| | Test Method: | ANSI C63.10: 2013 | | | | |
| | Test Site: | Measurement Distance | : 3m (Semi-Anec | hoic Cham | ber) | 100 |
| <u> </u> | Receiver Setup: | Frequency | Detector | RBW | VBW | Remark |
| 2 | | 0.009MHz-0.090MH | z Peak | 10kHz | 30kHz | Peak |
| | | 0.009MHz-0.090MH | z Average | 10kHz | 30kHz | Average |
| | | 0.090MHz-0.110MH | z Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | | 0.110MHz-0.490MH | z Peak | 10kHz | 30kHz | Peak |
| | | 0.110MHz-0.490MH | z Average | 10kHz | 30kHz | Average |
| | | 0.490MHz -30MHz | Quasi-peak | 10kHz | 30kHz | Quasi-peak |
| | | 30MHz-1GHz | Peak | 100 kH | z 300kHz | Peak |
| 23 | | Above 1GHz | Peak | 1MHz | 3MHz | Peak |
| 3 | | | Peak | 1MHz | 10kHz | Average |
| | Limit: | Frequency | Field strength (microvolt/meter) | Limit (dBuV/m) | Remark | Measuremer distance (m |
| | | 0.009MHz-0.490MHz | 2400/F(kHz) | - | -/3 | 300 |
| | | 0.490MHz-1.705MHz | 24000/F(kHz) | - | (A) | 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 |
| 2 | | 960MHz-1GHz | 500 | 54.0 | Quasi-peak | 3 |
| | | Above 1GHz | 500 | 54.0 | Average | 3 |
| | | Note: 15.35(b), Unless emissions is 20dE applicable to the peak emission lev | above the maxinequipment under | num permi test. This p | tted average | emission limit |

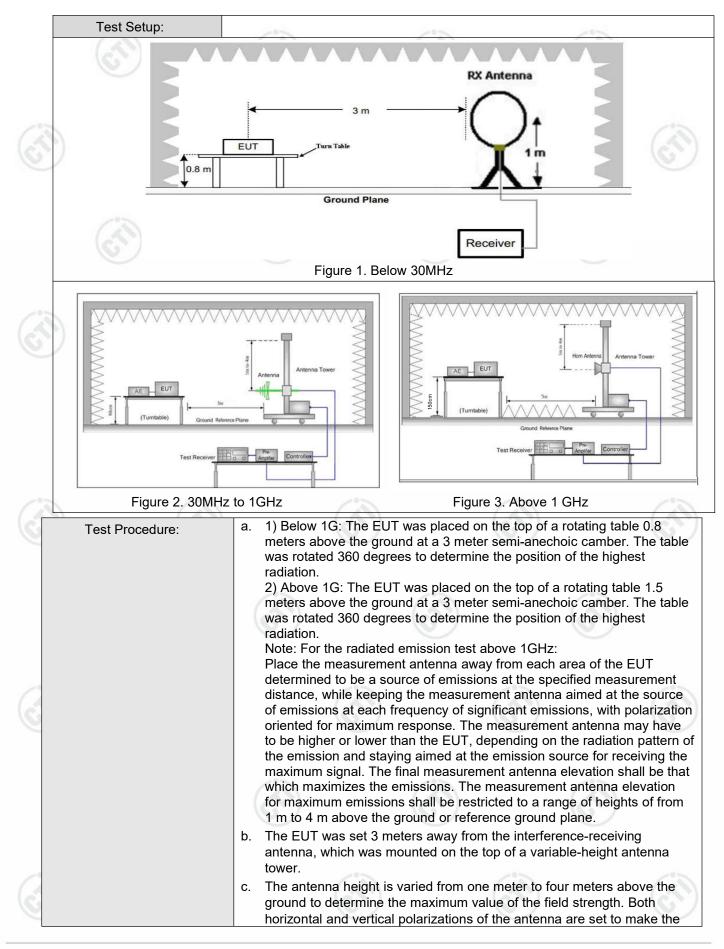








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| | | measurement. |
|-----|------------------------|--|
| | | d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading. |
| C | | e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. |
| (a) | | 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 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. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case. |
| | | i. Repeat above procedures until all frequencies measured was complete. |
| Q | 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 and GFSK modulation is the worst case. |
| | | Pretest the EUT at Transmitting mode, For below 1GHz part, through pre- scan, the worst case is the lowest channel. |
| | | Only the worst case is recorded in the report. |
| | Test Results: | Pass |



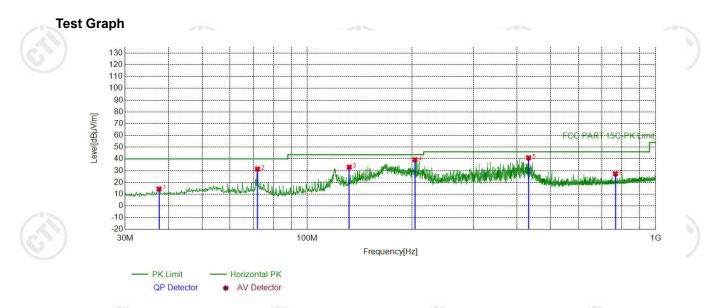






Radiated Spurious Emission below 1GHz:

During the test, the Radiates Emission from 30MHz to 1GHz was performed in all modes, only the worst case lowest channel of DH5 for GFSK was recorded in the report.

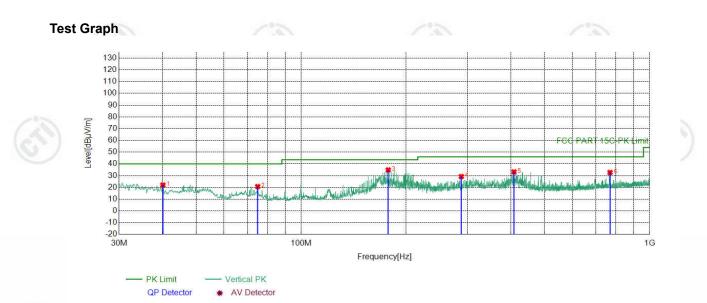


| Suspec | cted List | | | | | | | | |
|--------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 37.5668 | -18.80 | 33.26 | 14.46 | 40.00 | 25.54 | PASS | Horizontal | PK |
| 2 | 72.0052 | -21.15 | 52.55 | 31.40 | 40.00 | 8.60 | PASS | Horizontal | PK |
| 3 | 132.0542 | -21.66 | 54.70 | 33.04 | 43.50 | 10.46 | PASS | Horizontal | PK |
| 4 | 203.9384 | -17.75 | 57.05 | 39.30 | 43.50 | 4.20 | PASS | Horizontal | PK |
| 5 | 432.0082 | -12.22 | 53.13 | 40.91 | 46.00 | 5.09 | PASS | Horizontal | PK |
| 6 | 766.6917 | -6.85 | 34.21 | 27.36 | 46.00 | 18.64 | PASS | Horizontal | PK |
| | | | | | | | | | |









| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 1 | 40.0890 | -18.01 | 40.06 | 22.05 | 40.00 | 17.95 | PASS | Vertical | PK |
| 2 | 75.0125 | -21.68 | 42.40 | 20.72 | 40.00 | 19.28 | PASS | Vertical | PK |
| 3 | 177.7458 | -19.96 | 54.87 | 34.91 | 43.50 | 8.59 | PASS | Vertical | PK |
| 4 | 288.0458 | -15.76 | 45.03 | 29.27 | 46.00 | 16.73 | PASS | Vertical | PK |
| 5 | 408.0468 | -12.76 | 46.01 | 33.25 | 46.00 | 12.75 | PASS | Vertical | PK |
| 6 | 769.6990 | -6.82 | 39.57 | 32.75 | 46.00 | 13.25 | PASS | Vertical | PK |









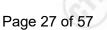




Hotline:400-6788-333







Radiated Spurious Emission above 1GHz:

| _ | | | | | | | | | | |
|----|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|---------|----------|----------|--|
| Mc | ode: | | GFSK Tra | nsmitting | | | Channel | : | 2402 MHz | |
| NC | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark | |
| 1 | 1330.4330 | 1.16 | 44.02 | 45.18 | 74.00 | 28.82 | Pass | н | PK | |
| 2 | 1992.8993 | 4.51 | 41.27 | 45.78 | 74.00 | 28.22 | Pass | Н | PK | |
| 3 | 3373.0249 | -20.09 | 57.74 | 37.65 | 74.00 | 36.35 | Pass | Н | PK | |
| 4 | 5055.1370 | -15.74 | 54.19 | 38.45 | 74.00 | 35.55 | Pass | Н | PK | |
| 5 | 7206.2804 | -11.83 | 57.75 | 45.92 | 74.00 | 28.08 | Pass | Н | PK | |
| 6 | 11869.5913 | -5.92 | 52.51 | 46.59 | 74.00 | 27.41 | Pass | Н | PK | |
| 7 | 1327.4327 | 1.15 | 47.17 | 48.32 | 74.00 | 25.68 | Pass | V | PK | |
| 8 | 1997.6998 | 4.54 | 45.27 | 49.81 | 74.00 | 24.19 | Pass | V | PK | |
| 9 | 3333.0222 | -19.93 | 62.70 | 42.77 | 74.00 | 31.23 | Pass | V | PK | |
| 10 | 4791.1194 | -16.26 | 62.63 | 46.37 | 74.00 | 27.63 | Pass | V | PK | |
| 11 | 7205.2804 | -11.83 | 56.53 | 44.70 | 74.00 | 29.30 | Pass | V | PK | |
| 12 | 2 14363.7576 | 0.62 | 48.77 | 49.39 | 74.00 | 24.61 | Pass | V | PK | |
| | | | | | | | | | | |

| Mode | e: | | GFSK Tra | nsmitting | | | Channe | : | 2441 MHz |
|------|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|--------|----------|----------|
| NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1328.8329 | 1.16 | 44.20 | 45.36 | 74.00 | 28.64 | Pass | н | PK |
| 2 | 1986.8987 | 4.48 | 40.92 | 45.40 | 74.00 | 28.60 | Pass | Н | PK |
| 3 | 3919.0613 | -19.06 | 56.25 | 37.19 | 74.00 | 36.81 | Pass | Н | PK |
| 4 | 5716.1811 | -13.86 | 54.29 | 40.43 | 74.00 | 33.57 | Pass | Н | PK |
| 5 | 7327.2885 | -11.64 | 56.45 | 44.81 | 74.00 | 29.19 | Pass | Н | PK |
| 6 | 11972.5982 | -5.41 | 51.28 | 45.87 | 74.00 | 28.13 | Pass | Н | PK |
| 7 | 1234.4234 | 0.89 | 41.81 | 42.70 | 74.00 | 31.30 | Pass | V | PK |
| 8 | 1890.6891 | 3.96 | 40.56 | 44.52 | 74.00 | 29.48 | Pass | V | PK |
| 9 | 3791.0527 | -19.30 | 56.73 | 37.43 | 74.00 | 36.57 | Pass | V | PK |
| 10 | 6675.2450 | -12.57 | 53.03 | 40.46 | 74.00 | 33.54 | Pass | V | PK |
| 11 | 9894.4596 | -7.09 | 51.18 | 44.09 | 74.00 | 29.91 | Pass | V | PK |
| 12 | 13736.7158 | -1.72 | 49.79 | 48.07 | 74.00 | 25.93 | Pass | V | PK |









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| Mod | ۵. | | GFSK Tra | nemitting | | | Channel | | 2480 MHz |
|-----|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|---------|----------|--------------|
| WOU | e. | | | | | | Channe | • | 2400 1011 12 |
| NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1332.0332 | 1.17 | 43.68 | 44.85 | 74.00 | 29.15 | Pass | Н | PK |
| 2 | 1999.7000 | 4.55 | 41.47 | 46.02 | 74.00 | 27.98 | Pass | Н | PK |
| 3 | 4524.1016 | -16.89 | 54.65 | 37.76 | 74.00 | 36.24 | Pass | Н | PK |
| 4 | 7440.2960 | -11.34 | 62.45 | 51.11 | 74.00 | 22.89 | Pass | Н | PK |
| 5 | 9919.4613 | -7.10 | 54.47 | 47.37 | 74.00 | 26.63 | Pass | Н | PK |
| 6 | 12513.6342 | -4.73 | 51.39 | 46.66 | 74.00 | 27.34 | Pass | Н | PK |
| 7 | 1327.6328 | 1.15 | 46.25 | 47.40 | 74.00 | 26.60 | Pass | V | PK |
| 8 | 1995.4996 | 4.53 | 46.79 | 51.32 | 74.00 | 22.68 | Pass | V | PK |
| 9 | 4794.1196 | -16.25 | 60.68 | 44.43 | 74.00 | 29.57 | Pass | V | PK |
| 10 | 7440.2960 | -11.34 | 61.96 | 50.62 | 74.00 | 23.38 | Pass | V | PK |
| 11 | 8982.3988 | -8.60 | 52.87 | 44.27 | 74.00 | 29.73 | Pass | V | PK |
| 12 | 14374.7583 | 0.80 | 47.80 | 48.60 | 74.00 | 25.40 | Pass | V | PK |
| | | | | | 6 | | | | |

| Mode | : | | π/4DQPS | SK Transmitt | ing | | Channel | : | 2402 MHz |
|------|----------------------------|---|---|---|---|---|--|--|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1328.8329 | 1.16 | 43.54 | 44.70 | 74.00 | 29.30 | Pass | Н | PK |
| 2 | 1806.6807 | 3.33 | 42.41 | 45.74 | 74.00 | 28.26 | Pass | Н | PK |
| 3 | 4546.1031 | -16.83 | 55.17 | 38.34 | 74.00 | 35.66 | Pass | Н | PK |
| 4 | 7206.2804 | -11.83 | 63.37 | 51.54 | 74.00 | 22.46 | Pass | Н | PK |
| 5 | 9608.4406 | -7.37 | 53.13 | 45.76 | 74.00 | 28.24 | Pass | Н | PK |
| 6 | 11951.5968 | -5.53 | 52.61 | 47.08 | 74.00 | 26.92 | Pass | Н | PK |
| 7 | 1333.0333 | 1.17 | 46.74 | 47.91 | 74.00 | 26.09 | Pass | V | PK |
| 8 | 1999.2999 | 4.55 | 47.45 | 52.00 | 74.00 | 22.00 | Pass | V | PK |
| 9 | 4982.1321 | -15.89 | 59.44 | 43.55 | 74.00 | 30.45 | Pass | V | PK |
| 10 | 7205.2804 | -11.83 | 62.78 | 50.95 | 74.00 | 23.05 | Pass | V | PK |
| 11 | 8984.3990 | -8.59 | 54.81 | 46.22 | 74.00 | 27.78 | Pass | V | PK |
| 12 | 11900.5934 | -5.83 | 51.56 | 45.73 | 74.00 | 28.27 | Pass | V | PK |
| | NO 1 2 3 4 5 6 7 8 9 10 11 | NO [MHz] 1 1328.8329 2 1806.6807 3 4546.1031 4 7206.2804 5 9608.4406 6 11951.5968 7 1333.0333 8 1999.2999 9 4982.1321 10 7205.2804 11 8984.3990 | NOFreq. [MHz]Ant Factor [dB]11328.83291.1621806.68073.3334546.1031-16.8347206.2804-11.8359608.4406-7.37611951.5968-5.5371333.03331.1781999.29994.5594982.1321-15.89107205.2804-11.83118984.3990-8.59 | NOFreq. [MHz]Ant Factor [dB]Reading [dBµV]11328.83291.1643.5421806.68073.3342.4134546.1031-16.8355.1747206.2804-11.8363.3759608.4406-7.3753.13611951.5968-5.5352.6171333.03331.1746.7481999.29994.5547.4594982.1321-15.8959.44107205.2804-11.8362.78118984.3990-8.5954.81 | NOFreq. [MHz]Ant Factor [dB]Reading [dBµV]Level [dBµV]11328.83291.1643.5444.7021806.68073.3342.4145.7434546.1031-16.8355.1738.3447206.2804-11.8363.3751.5459608.4406-7.3753.1345.76611951.5968-5.5352.6147.0871333.03331.1746.7447.9181999.29994.5547.4552.0094982.1321-15.8959.4443.55107205.2804-11.8362.7850.95118984.3990-8.5954.8146.22 | NOFreq. [MHz]Ant Factor [dB]Reading [dBµV]Level [dBµV/m]Limit [dBµV/m]11328.83291.1643.5444.7074.0021806.68073.3342.4145.7474.0034546.1031-16.8355.1738.3474.0047206.2804-11.8363.3751.5474.0059608.4406-7.3753.1345.7674.00611951.5968-5.5352.6147.0874.0071333.03331.1746.7447.9174.0081999.29994.5547.4552.0074.0094982.1321-15.8959.4443.5574.00107205.2804-11.8362.7850.9574.00118984.3990-8.5954.8146.2274.00 | NOFreq. [MHz]Ant Factor [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]Margin [dBµV/m]11328.83291.1643.5444.7074.0029.3021806.68073.3342.4145.7474.0028.2634546.1031-16.8355.1738.3474.0028.2647206.2804-11.8363.3751.5474.0022.4659608.4406-7.3753.1345.7674.0028.24611951.5968-5.5352.6147.0874.0026.9271333.03331.1746.7447.9174.0026.0981999.29994.5547.4552.0074.0022.0094982.1321-15.8959.4443.5574.0023.05107205.2804-11.8362.7850.9574.0023.05118984.3990-8.5954.8146.2274.0027.78 | NOFreq. [MHz]Ant Factor [dB]Reading [dBµV]Level [dBµV]Limit [dBµV/m]Margin [dBµV/m]Result11328.83291.1643.5444.7074.0029.30Pass21806.68073.3342.4145.7474.0028.26Pass34546.1031-16.8355.1738.3474.0035.66Pass47206.2804-11.8363.3751.5474.0028.24Pass59608.4406-7.3753.1345.7674.0028.24Pass611951.5968-5.5352.6147.0874.0026.92Pass71333.03331.1746.7447.9174.0026.09Pass81999.29994.5547.4552.0074.0022.00Pass94982.1321-15.8959.4443.5574.0030.45Pass107205.2804-11.8362.7850.9574.0023.05Pass118984.3990-8.5954.8146.2274.0027.78Pass | NO Freq. [MHz] Ant Factor [dB] Reading [dBµV] Level [dBµV/m] Limit [dBµV/m] Margin [dBµ Result Polarity 1 1328.8329 1.16 43.54 44.70 74.00 29.30 Pass H 2 1806.6807 3.33 42.41 45.74 74.00 28.26 Pass H 3 4546.1031 -16.83 55.17 38.34 74.00 35.66 Pass H 4 7206.2804 -11.83 63.37 51.54 74.00 28.24 Pass H 5 9608.4406 -7.37 53.13 45.76 74.00 28.24 Pass H 6 11951.5968 -5.53 52.61 47.08 74.00 26.92 Pass H 7 1333.0333 1.17 46.74 47.91 74.00 26.09 Pass V 8 1999.2999 4.55 47.45 52.00 74.00 30.45 Pass V |



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| Mode | : | | π/4DQPS | SK Transmitt | ing | | Channel | : | 2441 MHz |
|------|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|---------|----------|----------|
| NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1332.4332 | 1.17 | 43.45 | 44.62 | 74.00 | 29.38 | Pass | Н | PK |
| 2 | 1991.4992 | 4.51 | 41.80 | 46.31 | 74.00 | 27.69 | Pass | Н | PK |
| 3 | 4367.0911 | -17.11 | 55.33 | 38.22 | 74.00 | 35.78 | Pass | Н | PK |
| 4 | 7322.2882 | -11.65 | 63.38 | 51.73 | 74.00 | 22.27 | Pass | Н | PK |
| 5 | 9764.4510 | -7.50 | 57.62 | 50.12 | 74.00 | 23.88 | Pass | Н | PK |
| 6 | 14382.7589 | 0.93 | 47.87 | 48.80 | 74.00 | 25.20 | Pass | Н | PK |
| 7 | 1332.0332 | 1.17 | 46.28 | 47.45 | 74.00 | 26.55 | Pass | V | PK |
| 8 | 1991.4992 | 4.51 | 47.90 | 52.41 | 74.00 | 21.59 | Pass | V | PK |
| 9 | 4791.1194 | -16.26 | 60.98 | 44.72 | 74.00 | 29.28 | Pass | V | PK |
| 10 | 7322.2882 | -11.65 | 58.29 | 46.64 | 74.00 | 27.36 | Pass | V | PK |
| 11 | 10315.4877 | -6.43 | 51.33 | 44.90 | 74.00 | 29.10 | Pass | V | PK |
| 12 | 13679.7120 | -1.74 | 48.99 | 47.25 | 74.00 | 26.75 | Pass | V | PK |
| | | 51 | | 6 | | | ST/ | | 6 |

| | Mode | : | | π/4DQPS | SK Transmitt | ing | | Channel | : | 2480 MHz |
|---|------|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|---------|----------|----------|
| | NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 1328.4328 | 1.15 | 43.87 | 45.02 | 74.00 | 28.98 | Pass | Н | PK |
| | 2 | 1678.6679 | 2.80 | 40.89 | 43.69 | 74.00 | 30.31 | Pass | Н | PK |
| | 3 | 4791.1194 | -16.26 | 55.35 | 39.09 | 74.00 | 34.91 | Pass | Н | PK |
| | 4 | 7440.2960 | -11.34 | 58.72 | 47.38 | 74.00 | 26.62 | Pass | Н | PK |
| / | 5 | 9920.4614 | -7.10 | 59.47 | 52.37 | 74.00 | 21.63 | Pass | Н | PK |
| | 6 | 12546.6364 | -4.49 | 51.60 | 47.11 | 74.00 | 26.89 | Pass | Н | PK |
| | 7 | 1333.2333 | 1.17 | 46.07 | 47.24 | 74.00 | 26.76 | Pass | V | PK |
| | 8 | 1991.4992 | 4.51 | 51.82 | 56.33 | 74.00 | 17.67 | Pass | V | PK |
| | 9 | 4795.1197 | -16.25 | 61.91 | 45.66 | 74.00 | 28.34 | Pass | V | PK |
| | 10 | 7439.2960 | -11.34 | 60.66 | 49.32 | 74.00 | 24.68 | Pass | V | PK |
| | 11 | 9920.4614 | -7.10 | 53.00 | 45.90 | 74.00 | 28.10 | Pass | V | PK |
| | 12 | 12442.6295 | -4.75 | 50.67 | 45.92 | 74.00 | 28.08 | Pass | V | PK |

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| Mode | e: | | 8DPSK - | Transmitting | | | Channel | : | 2402 MHz |
|------|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|---------|----------|---|
| NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 1333.2333 | 1.17 | 46.07 | 47.24 | 74.00 | 26.76 | Pass | Н | PK |
| 2 | 1991.4992 | 4.51 | 51.82 | 56.33 | 74.00 | 17.67 | Pass | Н | PK |
| 3 | 4795.1197 | -16.25 | 61.91 | 45.66 | 74.00 | 28.34 | Pass | Н | PK |
| 4 | 7439.2960 | -11.34 | 60.66 | 49.32 | 74.00 | 24.68 | Pass | Н | PK |
| 5 | 9920.4614 | -7.10 | 53.00 | 45.90 | 74.00 | 28.10 | Pass | Н | PK |
| 6 | 12442.6295 | -4.75 | 50.67 | 45.92 | 74.00 | 28.08 | Pass | Н | PK |
| 7 | 1331.6332 | 1.16 | 46.87 | 48.03 | 74.00 | 25.97 | Pass | V | PK |
| 8 | 1997.2997 | 4.54 | 47.60 | 52.14 | 74.00 | 21.86 | Pass | V | PK |
| 9 | 4796.1197 | -16.24 | 61.43 | 45.19 | 74.00 | 28.81 | Pass | V | PK |
| 10 | 7206.2804 | -11.83 | 62.42 | 50.59 | 74.00 | 23.41 | Pass | V | PK |
| 11 | 8985.3990 | -8.58 | 53.98 | 45.40 | 74.00 | 28.60 | Pass | V | PK |
| 12 | 10816.5211 | -6.25 | 51.70 | 45.45 | 74.00 | 28.55 | Pass | V | PK |
| | 0 | | | | / | 1 | | | Sec. Sec. Sec. Sec. Sec. Sec. Sec. Sec. |

| | Mode | : | | 8DPSK | Fransmitting | | | Channel: | | 2441 MHz |
|----------|------|----------------|-----------------------|-------------------|-------------------|-------------------|----------------|----------|----------|----------|
| | NO | Freq. [MHz] | Ant Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| | 1 | 1263.8264 | 0.97 | 41.39 | 42.36 | 74.00 | 31.64 | Pass | Н | PK |
| | 2 | 1740.6741 | 3.08 | 41.28 | 44.36 | 74.00 | 29.64 | Pass | Н | PK |
| | 3 | 5371.1581 | -14.62 | 54.68 | 40.06 | 74.00 | 33.94 | Pass | Н | PK |
|) | 4 | 7323.2882 | -11.65 | 63.88 | 52.23 | 74.00 | 21.77 | Pass | Н | PK |
| | 5 | 9764.4510 | -7.50 | 58.21 | 50.71 | 74.00 | 23.29 | Pass | Н | PK |
| | 6 | 13272.6848 | -3.36 | 50.74 | 47.38 | 74.00 | 26.62 | Pass | Н | PK |
| | 7 | 1327.6328 | 1.15 | 46.40 | 47.55 | 74.00 | 26.45 | Pass | V | PK |
| | 8 | 1999.2999 | 4.55 | 47.87 | 52.42 | 74.00 | 21.58 | Pass | V | PK |
| | 9 | 4791.1194 | -16.26 | 61.89 | 45.63 | 74.00 | 28.37 | Pass | V | PK |
| | 10 | 7323.2882 | -11.65 | 58.23 | 46.58 | 74.00 | 27.42 | Pass | V | PK |
| | 11 | 10279.4853 | -6.60 | 51.40 | 44.80 | 74.00 | 29.20 | Pass | V | PK |
| | 12 | 14365.7577 | 0.65 | 48.22 | 48.87 | 74.00 | 25.13 | Pass | V | PK |
| <u> </u> | | | 1 | | | | | | | |







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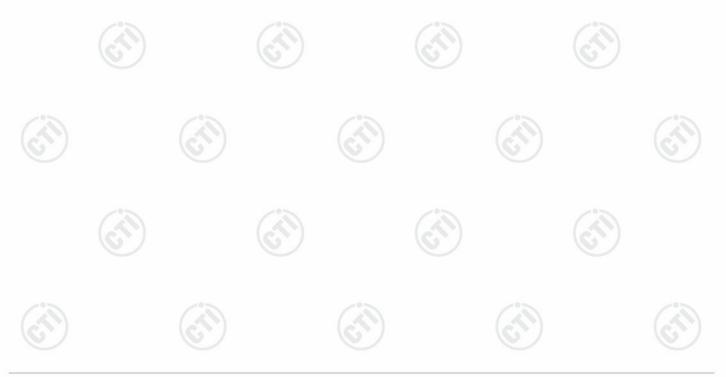
| Freq. [MHz] | Ant Factor | Reading | | | | | | |
|----------------|---|---|---|---|---|---|---|---|
| | [dB] | [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1332.0332 | 1.17 | 44.49 | 45.66 | 74.00 | 28.34 | Pass | Н | PK |
| 1991.6992 | 4.51 | 42.92 | 47.43 | 74.00 | 26.57 | Pass | Н | PK |
| 4960.1307 | -15.97 | 54.65 | 38.68 | 74.00 | 35.32 | Pass | Н | PK |
| 7440.2960 | -11.34 | 62.44 | 51.10 | 74.00 | 22.90 | Pass | Н | PK |
| 9919.4613 | -7.10 | 58.53 | 51.43 | 74.00 | 22.57 | Pass | Н | PK |
| 15392.8262 | 0.44 | 49.16 | 49.60 | 74.00 | 24.40 | Pass | Н | PK |
| 1328.8329 | 1.16 | 46.36 | 47.52 | 74.00 | 26.48 | Pass | V | PK |
| 1992.4993 | 4.51 | 48.58 | 53.09 | 74.00 | 20.91 | Pass | V | PK |
| 4792.1195 | -16.26 | 59.75 | 43.49 | 74.00 | 30.51 | Pass | V | PK |
| 6638.2426 | -12.70 | 57.00 | 44.30 | 74.00 | 29.70 | Pass | V | PK |
| 9919.4613 | -7.10 | 52.30 | 45.20 | 74.00 | 28.80 | Pass | V | PK |
| 13753.7169 | -1.69 | 49.99 | 48.30 | 74.00 | 25.70 | Pass | V | PK |
| | 1991.69924960.13077440.29609919.461315392.82621328.83291992.49934792.11956638.24269919.4613 | 1991.69924.514960.1307-15.977440.2960-11.349919.4613-7.1015392.82620.441328.83291.161992.49934.514792.1195-16.266638.2426-12.709919.4613-7.10 | 1991.69924.5142.924960.1307-15.9754.657440.2960-11.3462.449919.4613-7.1058.5315392.82620.4449.161328.83291.1646.361992.49934.5148.584792.1195-16.2659.756638.2426-12.7057.009919.4613-7.1052.30 | 1991.69924.5142.9247.434960.1307-15.9754.6538.687440.2960-11.3462.4451.109919.4613-7.1058.5351.4315392.82620.4449.1649.601328.83291.1646.3647.521992.49934.5148.5853.094792.1195-16.2659.7543.496638.2426-12.7057.0044.309919.4613-7.1052.3045.20 | 1991.69924.5142.9247.4374.004960.1307-15.9754.6538.6874.007440.2960-11.3462.4451.1074.009919.4613-7.1058.5351.4374.0015392.82620.4449.1649.6074.001328.83291.1646.3647.5274.001992.49934.5148.5853.0974.004792.1195-16.2659.7543.4974.006638.2426-12.7057.0044.3074.009919.4613-7.1052.3045.2074.00 | 1991.69924.5142.9247.4374.0026.574960.1307-15.9754.6538.6874.0035.327440.2960-11.3462.4451.1074.0022.909919.4613-7.1058.5351.4374.0022.5715392.82620.4449.1649.6074.0024.401328.83291.1646.3647.5274.0026.481992.49934.5148.5853.0974.0020.914792.1195-16.2659.7543.4974.0030.516638.2426-12.7057.0044.3074.0029.709919.4613-7.1052.3045.2074.0028.80 | 1032.03321.1144.4345.0014.0020.0414.041991.69924.5142.9247.4374.0026.57Pass4960.1307-15.9754.6538.6874.0035.32Pass7440.2960-11.3462.4451.1074.0022.90Pass9919.4613-7.1058.5351.4374.0022.57Pass15392.82620.4449.1649.6074.0024.40Pass1328.83291.1646.3647.5274.0026.48Pass1992.49934.5148.5853.0974.0020.91Pass4792.1195-16.2659.7543.4974.0030.51Pass6638.2426-12.7057.0044.3074.0029.70Pass9919.4613-7.1052.3045.2074.0028.80Pass | 1332.0332 1.17 44.43 40.00 74.00 20.34 1.00 11 1991.6992 4.51 42.92 47.43 74.00 26.57 Pass H 4960.1307 -15.97 54.65 38.68 74.00 35.32 Pass H 7440.2960 -11.34 62.44 51.10 74.00 22.90 Pass H 9919.4613 -7.10 58.53 51.43 74.00 22.57 Pass H 15392.8262 0.44 49.16 49.60 74.00 24.40 Pass H 1328.8329 1.16 46.36 47.52 74.00 26.48 Pass V 1992.4993 4.51 48.58 53.09 74.00 20.91 Pass V 4792.1195 -16.26 59.75 43.49 74.00 30.51 Pass V 6638.2426 -12.70 57.00 44.30 74.00 29.70 Pass V 9919.4613 -7.10 52.30 45.20 74.00 28.80 Pass V |

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) Scan from 9kHz to 25GHz, the disturbance above 10GHz and below 30MHz was very low. 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.







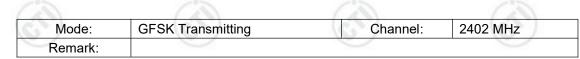


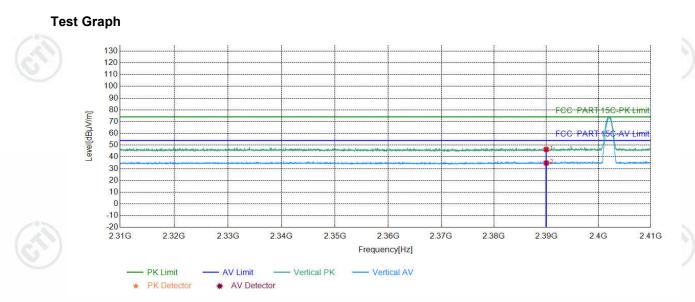
| | Mode: | GF | SK Transmi | tting | | Channel: | 240 | 2 MHz |
|-----------------|--|--|--|----------------------|--|--------------------|--------|------------------------|
| | Remark: | | | | I | | | |
| Test | Graph | | | | | | | |
| | 130 | | | | | | | |
| | 120 | | | | | | | |
| | 100 | | | | | | | |
| | 90 | | | | | | F | CC PART 15C-PK L |
| | ш, 70 60 50 40 | | | | | | | |
| | | and the strength of the streng | and the second | | u de compegnituite à la | and and the second | - | CC PART 150-AV L |
| | 40 30 | | | | - | | | |
| | 20 | | | | | | | |
| | 10 | | | | | | | |
| | -10 | | | | | | | |
| | | 2.33 | 3G 2.34G | 2.35G | 2.36G 2.37 | G 2.38G | 2.39G | 2.4G |
| | 2.31G 2.32G | 2.5 | 2.010 | | | 2.000 | | |
| | 2.31G 2.32G | 2.0. | | Free | quency[Hz] | 2.000 | | |
| | PK Limit | — A | V Limit Ho | Free | | 2.000 | | |
| | | — A | | Free | quency[Hz] | 2.000 | | |
| Susp | ← PK Limit ★ PK Detect | — A | V Limit Ho | Free | quency[Hz] | | | _ |
| Susp | ← PK Limit ★ PK Detect ected List | — A | V Limit Ho AV Detector | Free | quency[Hz] — Horizontal AV | | | |
| | ← PK Limit ★ PK Detect | A\ or * | V Limit Ho | Free | quency[Hz] | Margin [dB] | Result | Polarity |
| Susp NO 1 | ← PK Limit ★ PK Detect ected List Freq. | ے۔ or * Factor | V Limit Ho AV Detector Reading | Free prizontal PK | quency[Hz] — Horizontal AV Limit | Margin | Result | Polarity Horizontal |











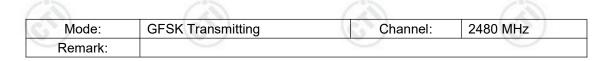
| | | | 6.0 | | | 10 | | | |
|-------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| Suspe | cted List | | | | | | | | |
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2390.0000 | 5.77 | 40.56 | 46.33 | 74.00 | 27.67 | PASS | Vertical | PK |
| 2 | 2390.0000 | 5.77 | 29.02 | 34.79 | 54.00 | 19.21 | PASS | Vertical | AV |
| | | | | 0 |) | | | | |

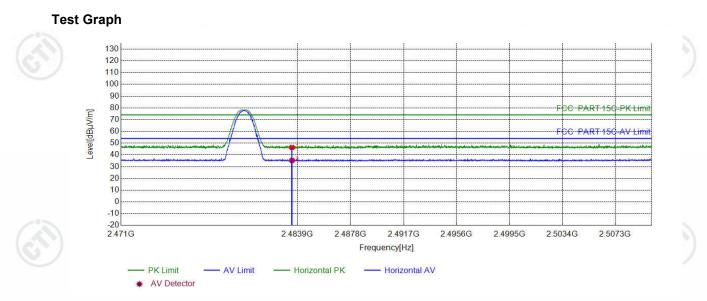






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| 1 2483.50 | | | | | | | | |
|-----------|---------|-------|-------|-------|-------|------|------------|----|
| 2403.30 | 00 6.57 | 39.79 | 46.36 | 74.00 | 27.64 | PASS | Horizontal | PK |
| 2 2483.50 | 00 6.57 | 28.72 | 35.29 | 54.00 | 18.71 | PASS | Horizontal | AV |

















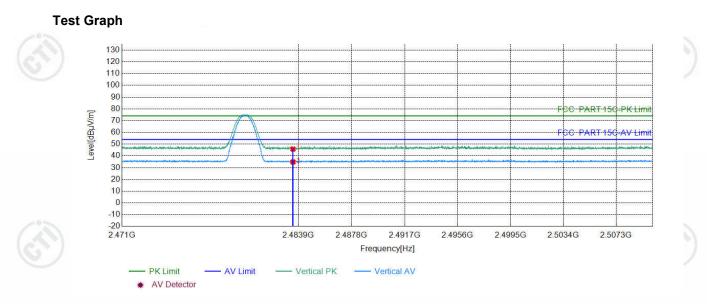
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| | NO | c ted List Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|----|----|-------------------------------------|----------------|-------------------|-------------------|-------------------|----------------|-----------|----------|-----------------|
| | 1 | 2483.5000 | 6.57 | 39.25 | 45.82 | 74.00 | 28.18 | PASS | Vertical | PK |
| i. | 2 | 2483.5000 | 6.57 | 28.31 | 34.88 | 54.00 | 19.12 | PASS | Vertical | AV |
| S | °) | | (\sim) | | 64 |) | (c | <u>()</u> | | (\mathcal{A}) |









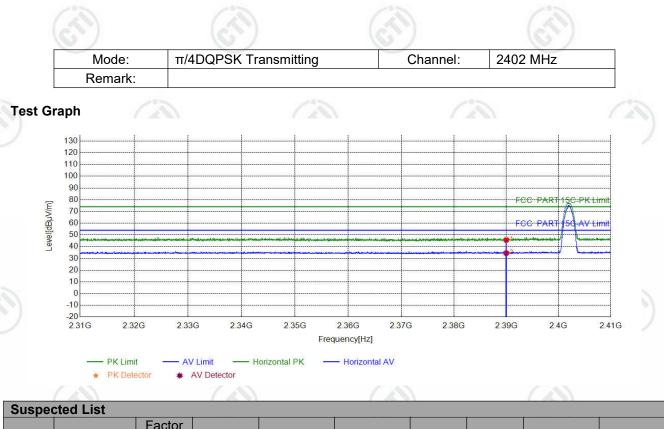




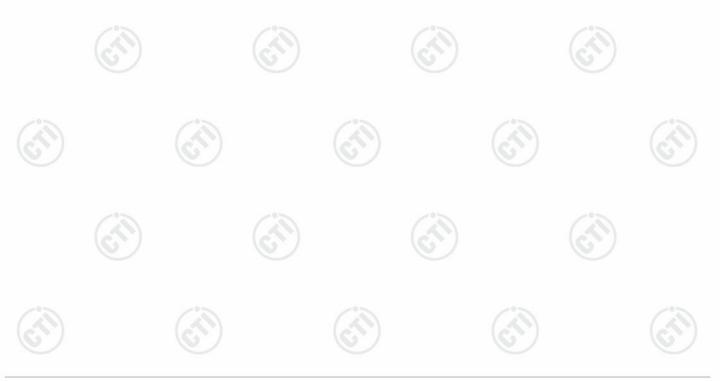






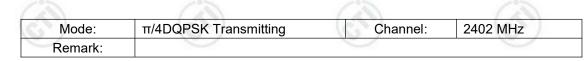


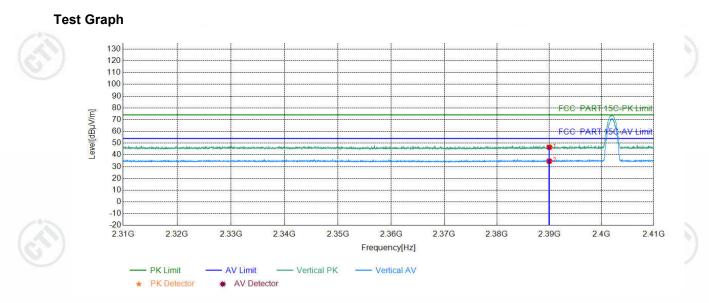
| | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|-----------|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| 13 | 1 | 2390.0000 | 5.77 | 39.96 | 45.73 | 74.00 | 28.27 | PASS | Horizontal | PK |
| 6 | 2 | 2390.0000 | 5.77 | 28.74 | 34.51 | 54.00 | 19.49 | PASS | Horizontal | AV |
| · · · · · | 1 | | | | | | | 1.1 | | |











| | [MHz] | | [dBµV] | [dBµV/m] | [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|-------|---------|------|--------|----------|----------|----------------|--------|----------|--------|
| 1 239 | 90.0000 | 5.77 | 40.77 | 46.54 | 74.00 | 27.46 | PASS | Vertical | PK |
| 2 239 | 90.0000 | 5.77 | 28.89 | 34.66 | 54.00 | 19.34 | PASS | Vertical | AV |













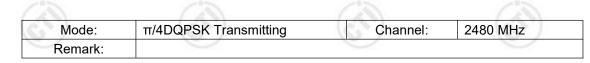


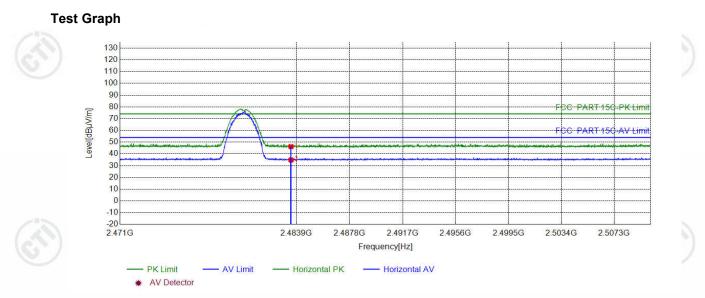






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| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| 1 | 2483.5000 | 6.57 | 39.65 | 46.22 | 74.00 | 27.78 | PASS | Horizontal | PK |
| 2 | 2483.5000 | 6.57 | 28.28 | 34.85 | 54.00 | 19.15 | PASS | Horizontal | AV |











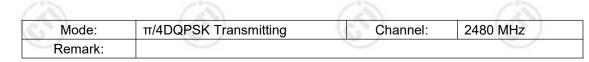


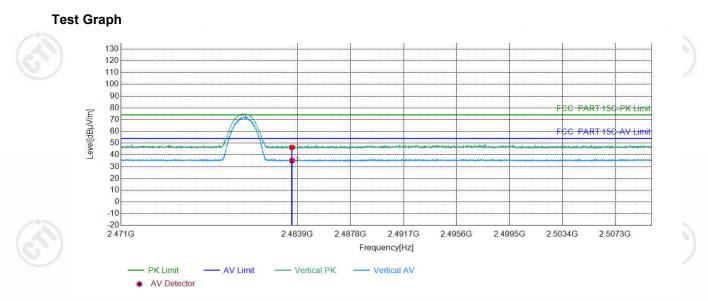






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| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|--------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 1 | 2483.5000 | 6.57 | 39.84 | 46.41 | 74.00 | 27.59 | PASS | Vertical | PK |
| 2 | 2483.5000 | 6.57 | 28.55 | 35.12 | 54.00 | 18.88 | PASS | Vertical | AV |
| \sum | 2-00.0000 | 0.01 | 20.00 | 00.12 | 04.00 | 10.00 | 17,00 | Vertical | |













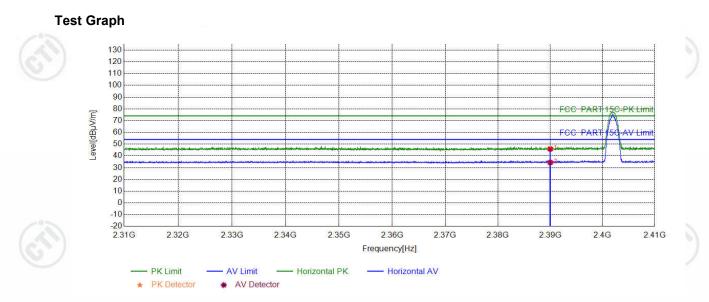


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| | NO | Freq. Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|-----|----|-------------------------|----------------|-------------------|-------------------|-------------------|----------------|-----------|------------|-----------------|
| Γ | 1 | 2390.0000 | 5.77 | 40.09 | 45.86 | 74.00 | 28.14 | PASS | Horizontal | PK |
| ö., | 2 | 2390.0000 | 5.77 | 28.65 | 34.42 | 54.00 | 19.58 | PASS | Horizontal | AV |
| Ş |) | | (~`) | | (S) |) | (d | <u>()</u> | | (\mathcal{A}) |













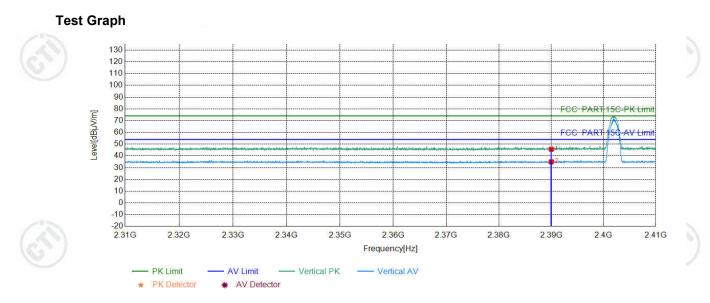












| | NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|----|----|----------------|----------------|-------------------|-------------------|-------------------|----------------|-----------|----------|----------------|
| Γ | 1 | 2390.0000 | 5.77 | 39.91 | 45.68 | 74.00 | 28.32 | PASS | Vertical | PK |
| 6. | 2 | 2390.0000 | 5.77 | 29.16 | 34.93 | 54.00 | 19.07 | PASS | Vertical | AV |
| Ş |) | | (S) | | (S) |) | (6 | <u>()</u> | | (\checkmark) |















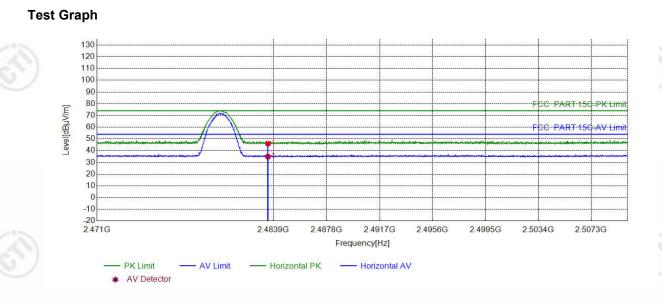








| Mode: | 8DPSK Transmitting | Channel: | 2480 MHz |
|---------|--------------------|----------|----------|
| Remark: | | (G*) | G |



| Suspe | cted List | | | | | | | | |
|-------|----------------|----------------|-------------------|-------------------|-------------------|----------------|--------|------------|--------|
| NO | Freq. [MHz] | Factor [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
| 1 | 2483.5000 | 6.57 | 39.46 | 46.03 | 74.00 | 27.97 | PASS | Horizontal | PK |
| 2 | 2483.5000 | 6.57 | 28.35 | 34.92 | 54.00 | 19.08 | PASS | Horizontal | AV |
| | | 10.00 | | 10.00 | | | 0.00 | | 1000 |















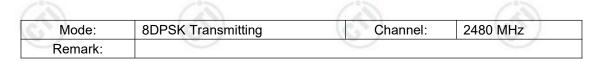


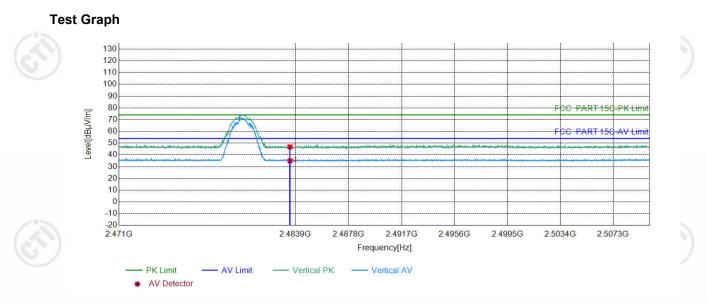


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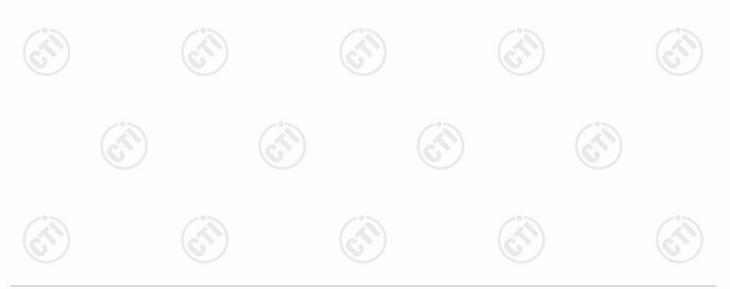
| | [MHz] | [dB] | Reading [dBµV] | Level [dBµV/m] | Limit [dBµV/m] | Margin [dB] | Result | Polarity | Remark |
|-----|-----------|------|-------------------|-------------------|-------------------|----------------|--------|----------|--------|
| 1 2 | 2483.5000 | 6.57 | 40.24 | 46.81 | 74.00 | 27.19 | PASS | Vertical | PK |
| 2 2 | 2483.5000 | 6.57 | 28.40 | 34.97 | 54.00 | 19.03 | PASS | Vertical | AV |

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 - Correct Factor

Correct Factor = Preamplifier Factor-Antenna Factor-Cable Factor







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6 Appendix A

Refer to Appendix: Bluetooth Classic of EED32O80248801

