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TEST REPORT

| Application No.: | GZCR2106020415AT | | | | |
|---------------------------|--|--|--|--|--|
| Applicant: | The House of Marley. LLC | | | | |
| Address of Applicant: | 3000 Pontiac Trail, Commerce Township, Michigan 48390 United States | | | | |
| Manufacturer: | RAYLEIGH LABS TECHNOLOGY (SHENZHEN) CO., LTD | | | | |
| Address of Manufacturer: | 1205, Tianming Science and Technology Building. Langshan Road, Nanshan District, Shenzhen, China | | | | |
| Factory: | Shenzhen 3nod Digital Technology Co., Ltd. | | | | |
| Address of Factory: | 401, ZONE 101A, WORKSHOP 15, ZHONGFU ROAD, TANGXIAYONG COMMUNITY, YANLUO STREET, BAOAN DISTRICT, SHENZHEN CITY, GUANGDONG PROVINCE, P.R.C. | | | | |
| Equipment Under Test (EUT |): | | | | |
| EUT Name: | GET TOGETHER 2 MINI | | | | |
| Model No.: | EM-JA021 | | | | |
| Trade Mark: | Marley | | | | |
| Standard(s) : | 47 CFR Part 15, Subpart C 15.247 | | | | |
| Date of Receipt: | 2021-06-11 | | | | |
| Date of Test: | 2021-06-16 to 2021-07-01 | | | | |
| Date of Issue: | 2021-07-06 | | | | |
| Test Result: | Pass* | | | | |

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

Kobe Jian EMC Laboratory Manager



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| | Revision Record | | | | | | |
|---------|--------------------------------------|------------|--|----------|--|--|--|
| Version | Version Chapter Date Modifier Remark | | | | | | |
| 01 | | 2021-07-06 | | Original | | | |
| | | | | | | | |
| | | | | | | | |

| Authorized for issue by | | |
|-------------------------|------------------------------|---|
| Tested By | kevin zhang | |
| | Kevin Zhang/Project Engineer | |
| Reviewed By | Ridey Liu | |
| | Ricky Liu/Reviewer | - |



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2 **Test Summary**

| Radio Spectrum Technical Requirement | | | | | | |
|--|-------------------------------------|--------|--|--------|--|--|
| Item | Standard | Method | Requirement | Result | | |
| Antenna Requirement | | N/A | 47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4) | Pass | | |
| Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence | 47 CFR Part 15, Subpart C 15.247 | N/A | 47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h) | Pass | | |

| Item | Standard | Method | Requirement | Result |
|---|-------------------------------------|--|--|--------|
| Conducted Emissions at AC Power Line (150kHz-30MHz) | | ANSI C63.10 (2013) Section 6.2 | 47 CFR Part 15, Subpart C 15.207 | Pass |
| Conducted Peak Output Power | | ANSI C63.10 (2013) Section 7.8.5 | 47 CFR Part 15, Subpart C 15.247(b)(1) | Pass |
| 20dB Bandwidth | | ANSI C63.10 (2013) Section 7.8.7 | 47 CFR Part 15, Subpart C 15.247(a)(1) | Pass |
| Carrier Frequencies Separation | 47 CFR Part 15, Subpart C 15.247 | ANSI C63.10 (2013) Section 7.8.2 | 47 CFR Part 15, Subpart C 15.247a(1) | Pass |
| Hopping Channel Number | | ANSI C63.10 (2013) Section 7.8.3 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Dwell Time | | ANSI C63.10 (2013) Section 7.8.4 | 47 CFR Part 15, Subpart C 15.247a(1)(iii) | Pass |
| Conducted Band Edges Measurement | | ANSI C63.10 (2013) Section 7.8.6 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Conducted Spurious Emissions | | ANSI C63.10 (2013) Section 7.8.8 | 47 CFR Part 15, Subpart C 15.247(d) | Pass |
| Radiated Emissions which fall in the restricted bands | | ANSI C63.10 (2013) Section 6.10.5 & 11.12.1 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |
| Radiated Spurious Emissions | | ANSI C63.10 (2013) Section 6.4,6.5,6.6 & 11.12.1 | 47 CFR Part 15, Subpart C 15.205 & 15.209 | Pass |

Note:

E.U.T./EUT means Equipment Under Test.

Pass means the test result passed the test standard requirement, please find the detailed decision rule in the report relative section.



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General Information 4

4.1 Details of E.U.T.

| Power supply: | DC 7.4 V Powered by built-in battery as below: Model: 18650-7.4V-2S Rated: DC 7.4 V, 2500mAh, 18.5Wh |
|--------------------------------|--|
| Cable(s): | AUX in ports |
| | Type C ports |
| Test Voltage: | AC 120 V, 60 Hz powered by AC/DC adapter for charging; |
| | DC 7.4 V for normal working; |
| Operation Frequency: | 2402MHz to 2480MHz |
| Modulation Type: | GFSK, π/4DQPSK, 8DPSK |
| Number of Channels: | 79 |
| Channel Spacing: | 1MHz |
| Spectrum Spread Technology: | Frequency Hopping Spread Spectrum(FHSS) |
| Antenna Type: | PCB Antenna |
| Antenna Gain: | 0 dBi declared by applicant |
| Firmware Version: | SV01 |
| Hardware Version: | RL1010018 |
| Testing Software: | FCC_Test_Tools_V2.23 |
| Sample NO.: | M1 |
| Power Setting: | 0 dBm can not changed by user |
| Function: | GET TOGETHER 2 MINI with BT function |
| | |

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|--------------------|--------------|---------------|------------|
| Note Book Computer | LENOVO | ThinkPad T490 | PF1D1MVJ |

4.3 Measurement Uncertainty

| Test Item | Measurement Uncertainty | |
|---|---|--|
| Conducted Emissions at AC Power Line (150kHz- 30MHz) | 3.12dB | |
| Conducted Peak Output Power | ± 0.75dB | |
| 20dB Bandwidth | ± 3% | |
| Carrier Frequencies Separation | ± 7.25 x 10 ⁻⁸ | |
| Hopping Channel Number | ± 7.25 x 10 ⁻⁸ | |
| Dwell Time | ± 0.37% | |
| Conducted Band Edges Measurement | ± 0.75dB | |
| Conducted Spurious Emissions | ± 0.75dB | |
| Radiated Emissions which fall in the restricted bands | ± 4.5dB (Below 1GHz); ± 4.8dB (Above 1GHz) | |
| Radiated Spurious Emissions | 5.06dB (3m); 4.46dB (10m) | |



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4.4 Test Location

All tests were performed at: SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou Branch EMC Laboratory, 198 Kezhu Road, Scientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 Tel: +86 20 82155555 Fax: +86 20 82075059 No tests were sub-contracted.

4.5 Test Facility

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

• NVLAP (Lab Code: 200611-0)

SGS-CSTC Standards Technical Services Co., Ltd., Guangzhou EMC Laboratory is accredited by the National Voluntary Laboratory Accreditation Program (NVLAP/NIST). NVLAP Code: 200611-0.

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.

• ACMA

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory can also perform testing for the Australian/New Zealand Regulatory Compliance Mark (RCM).

• SGS UK(Certificate No.: 32), SGS-TUV SAARLAND and SGS-FIMKO

Have approved SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory as a supplier of EMC TESTING SERVICES and SAFETY TESTING SERVICES.

• CNAS (Lab Code: L0167)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been assessed and in compliance with CNAS-CL01:2018 accreditation criteria for testing laboratories (identical to ISO/IEC 17025:2017 General Requirements) for the Competence of Testing Laboratories.

• FCC Recognized Accredited Test Firm(Registration No.: 486818)

SGS-CSTC Standards Technical Services Co., Ltd., EMC Laboratory has been accredited and fully described in a report filed with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files. Designation Number: CN5016, Test Firm Registration Number: 486818.

• ISED (Registration No.: 4620B, CAB identifier: CN0052)

SGS-CSTC Standards Technical Services Co., Ltd., has been registered by Innovation Science and Economic Development Canada for Wireless Device Testing laboratories to test to Canadian radio equipment requirements. Registration No. 4620B, CAB identifier: CN0052.

• VCCI (Registration No.: R-12460, C-12584, G-20107 and T-11179)

The 10m Semi-anechoic chamber, 966 Anechoic Chamber and Shielded Room of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: R-12460, C-12584, G-20107 and T-11179 respectively.

• CBTL (Lab Code: TL129)

SGS-CSTC Standards Technical Services Co., Ltd., E&E Laboratory has been assessed and fully comply with the requirements of ISO/IEC 17025:2017, the Basic Rules, IECEE 01 and Rules of procedure IECEE 02, and the relevant IECEE CB-Scheme Operational documents.



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- 4.6 Deviation from Standards None
- 4.7 Abnormalities from Standard Conditions None



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Equipment List 5

| Conducted Emissions at AC Power Line (150kHz-30MHz) | | | | | | |
|---|-------------------|-------------------|-----------|------------|------------|--|
| Equipment Manufacturer Model No Inventory No Cal Date C | | | | | | |
| Shielding Room | ChangZhou ZhongYu | 8m x 3m x 3.8m | EMC0306 | N/A | N/A | |
| Two-Line V-Network | Rohde & Schwarz | ENV216 | EMC0118 | 2021-01-08 | 2022-01-06 | |
| Two-Line V-Network-GZ | Rohde & Schwarz | ENV216 | EMC2135 | 2020-09-25 | 2021-09-24 | |
| Coaxial Cable | HangTianXing | 2m | EMC0107 | 2020-09-09 | 2022-09-08 | |
| Test Software E3c | Audix | Ver. 5.4.1221b | GZE100-62 | N/A | N/A | |
| EMI Test Receiver(9kHz-3.6GHz) | Rohde & Schwarz | ESR4 | EMC2221 | 2021/6/1 | 2022/5/31 | |

| Conducted Peak Output Power | | | | | | |
|-----------------------------------|-------------------------|--------------|-----------|------------|------------|--|
| Equipment | Cal Date | Cal Due Date | | | | |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 | |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 | |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A | |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 | |

| 20dB Bandwidth | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |

| Carrier Frequencies Separation | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |



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| Hopping Channel Number | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |

| Dwell Time | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |

| Conducted Band Edges Measurement | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |

| Conducted Spurious Emissions | | | | | |
|-----------------------------------|-------------------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EXA Signal Analzer(10Hz-44GHz) | Agilent Technologies | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| 6dB Attenuator | HP | 8491A | EMC2062 | 2020-04-15 | 2022-04-14 |
| Test Software JS1120-3 | HangTianXing | V2.6 | GZE100-69 | N/A | N/A |
| MI CABLE | SGS-EMC | 0.8M | EMC2136 | 2019-11-02 | 2021-11-01 |



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| Radiated Emissions which fall in the restricted bands | | | | | |
|---|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| EMI Test Receiver(20Hz- 26.5GHz) | Rohde & Schwarz | ESIB26 | EMC0522 | 2021-01-08 | 2022-01-07 |
| Chamber cable(Above 1GHz) | Scoflex | KMKM-8.0m | EMC0545 | 2020/9/9 | 2022/9/8 |
| Horn Antenna(1GHz- 18GHz) | SCHWARZBECK MESS-ELEKTRONIK | BBHA 9120D | EMC2026 | 2019-09-25 | 2022-09-24 |
| 1GHz-26.5 GHz Pre-Amplifier | Agilent | 8449B | EMC0521 | 2021-01-08 | 2022-01-07 |
| 2.4GHz Filter | Micro-Tronics | BRM 50702 | EMC2069 | 2021-01-08 | 2022-01-07 |
| 966 Anechoic Chamber | C.R.T | 9m x 6m x 6m | EMC2142 | 2020-12-20 | 2023-12-19 |
| MXE EMI Receiver(10Hz-8.4GHz) | Keysight | N9038A | EMC2139 | 2020-11-13 | 2021-11-12 |
| EXA Signal Analyzer(10Hz-44GHz) | Keysight | N9010A | EMC2138 | 2020-09-17 | 2021-09-16 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| Notch Filter (5150-5880) | Mico-Tronics | BRM50716 | EMC2168 | 2020-07-29 | 2021-07-28 |
| Horn Antenna(14- 40GHz) | SCHWARZBECK | BBHA 9170 | EMC2041 | 2020-06-28 | 2023-06-27 |
| Microwave Broadband Preamplifier (18-40GHz) | SCHWARZBECK | BBV 9721 | EMC2172 | 2020-09-09 | 2021-09-08 |

| Radiated Spurious Emissions | | | | | |
|---|--------------------------------|---------------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| Chamber cable | HangTianXing | N/A | EMC0542 | 2020-09-09 | 2022-09-08 |
| Trilog Broadband Antenna(25MHz-1GHz)- Lab | SCHWARZBECK MESS-ELEKTRONIK | VULB 9168 | SEM003-18 | 2019-02-22 | 2022-02-22 |
| Amplifier(9kHz-1.3GHz) | HP | 8447F | EMC2065 | 2021-05-19 | 2022-05-18 |
| Active Loop Antenna- RED | ETS-Lindgren | 6502 | EMC2190 | 2019-12-27 | 2021-12-26 |
| 10m Semi-Anechoic Chamber | ETS | N/A | EMC0530 | 2019-10-20 | 2022-10-19 |
| Test Software E3 | Audix | Ver.6.120110a | GZE100-61 | N/A | N/A |
| EMI Test Receiver(1Hz- 8GHz) | Rohde & Schwarz | ESW8 | EMC2220 | 2021/5/26 | 2022/5/25 |



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| General used equipment | | | | | |
|------------------------|--------------|----------|--------------|------------|--------------|
| Equipment | Manufacturer | Model No | Inventory No | Cal Date | Cal Due Date |
| DMM | Fluke | 73 | EMC0006 | 2020-07-09 | 2021-07-08 |
| DMM | Fluke | 73 | EMC0007 | 2020-07-09 | 2021-07-08 |



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)

6.1.2 Conclusion

Standard Requirement: Testing shall be performed using the highest gain antenna of each combination of licence-exempt transmitter and antenna type, with the transmitter output power set at the maximum level. When a measurement at the antenna connector is used to determine RF output power, the effective gain of the device's antenna shall be stated, based on a measurement or on data from the antenna manufacturer.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 integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 0 dBi.Please refer to internal photos.



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6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence

6.2.1 Test Requirement:

47 CFR Part 15, Subpart C 15.247(a)(1),(g),(h)

Limit:

Standard 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.

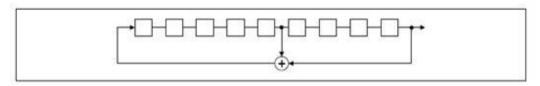
Compliance for section 15.247(a)(1):

According to Technical Specification, 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)

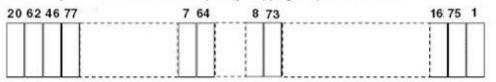
Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:



Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:







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Each frequency used equally on the average by each transmitter.

According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals.

Compliance for section 15.247(g):

According to Technical Specification, the system transmits the packet with the 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 Technical specification, the 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.

The 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.

6.2.2 Conclusion

Standard 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 Technical Specification, 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 Each frequency used equally on the average by each transmitter. According to Technical Specification, the receivers are designed to have input and IF bandwidths that match the hopping channel bandwidths of any transmitters and shift frequencies in synchronization with the transmitted signals. Compliance for section 15.247(g):According to Technical Specification, the system transmits the packet with the 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 Technical specification, the 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. The 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.



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7 **Radio Spectrum Matter Test Results**

Conducted Emissions at AC Power Line (150kHz-30MHz) 7.1

| Test Requirement | 47 CFR Part 15, Subpart C 15.207 |
|------------------|----------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 6.2 |
| | |

Limit:

| | Conducted limit(dBµV) | | | | |
|--|-----------------------|-----------|--|--|--|
| Frequency of emission(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 of the frequency. | | | | | |
| Detector: Peak for pre-scan (9kHz resolution bandwidth) 0.15M to 30MHz | | | | | |

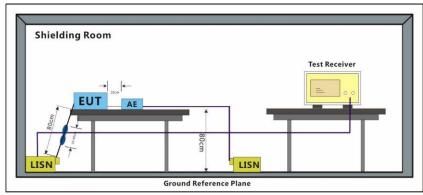
7.1.1 E.U.T. Operation

| Operating Enviro | nmen | t: | | | | |
|------------------|------|----|-----------|----|------|---------------------------------|
| Temperature: | 23 | °C | Humidity: | 52 | % RH | Atmospheric Pressure: 1010 mbar |

7.1.2 Test Mode Description

| Pre-scan / | Mode | Description |
|------------|------|------------------------------|
| Final test | Code | - |
| Final test | 00 | Normal Working_Charging mode |

7.1.3 Test Setup Diagram





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7.1.4 Measurement Procedure and Data

1) The mains terminal disturbance voltage test was conducted in a shielded room.

2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50µH + 50hm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.

3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.

4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.

5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

Remark: LISN=Read Level+ Cable Loss+ LISN Factor



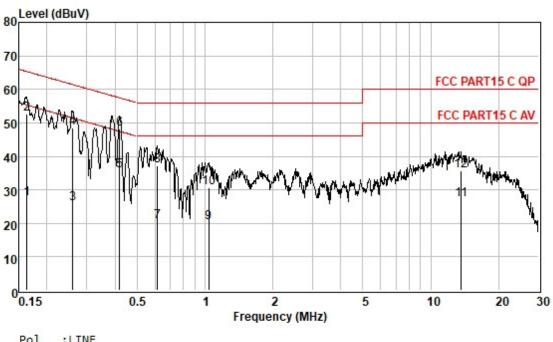
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Test Mode: 00; Line: Live line



Pol :LINE Mode :BT Model :

| Frequenc MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|-----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| | | | | | | | |
| 0.16 | 17.59 | 0.06 | 9.62 | 27.27 | 55.30 | -28.03 | Average |
| 0.16 | 42.93 | 0.06 | 9.62 | 52.61 | 65.30 | -12.69 | QP |
| 0.26 | 16.29 | 0.06 | 9.62 | 25.97 | 51.42 | -25.45 | Average |
| 0.26 | 38.75 | 0.06 | 9.62 | 48.43 | 61.42 | -12.99 | QP |
| 0.42 | 25.94 | 0.06 | 9.62 | 35.62 | 47.46 | -11.84 | Average |
| 0.42 | 38.63 | 0.06 | 9.62 | 48.31 | 57.46 | -9.15 | QP |
| 0.62 | 10.88 | 0.07 | 9.63 | 20.58 | 46.00 | -25.42 | Average |
| 0.62 | 27.60 | 0.07 | 9.63 | 37.30 | 56.00 | -18.70 | QP |
| 1.04 | 10.48 | 0.07 | 9.62 | 20.17 | 46.00 | -25.83 | Average |
| 1.04 | 21.05 | 0.07 | 9.62 | 30.74 | 56.00 | -25.26 | QP |
| 13.62 | 17.16 | 0.29 | 9.73 | 27.18 | 50.00 | -22.82 | Average |
| 13.62 | 25.64 | 0.29 | 9.73 | 35.66 | 60.00 | -24.34 | QP |



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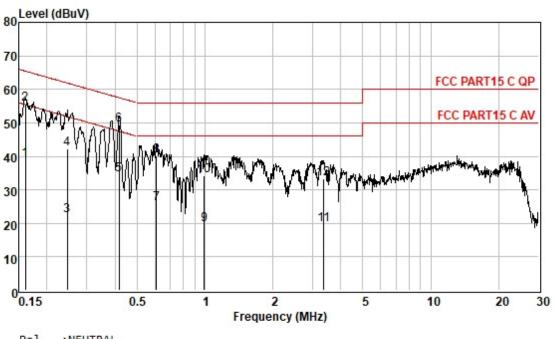
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Test Mode: 00; Line: Neutral Line



:NEUTRAL Pol Mode :BT Model :

| Frequenc MHz | Read Level dBuV | Cable Loss dB | LISN Factor dB | Measured Level dBuV | Limit Line dBuV | Over Limit dB | Remark |
|-----------------|-----------------------|---------------------|----------------------|---------------------------|-----------------------|---------------------|---------|
| | | | | | | | |
| 0.16 | 29.41 | 0.06 | 9.55 | 39.02 | 55.43 | -16.41 | Average |
| 0.16 | 46.13 | 0.06 | 9.55 | 55.74 | 65.43 | -9.69 | QP |
| 0.25 | 12.64 | 0.06 | 9.55 | 22.25 | 51.91 | -29.66 | Average |
| 0.25 | 32.56 | 0.06 | 9.55 | 42.17 | 61.91 | -19.74 | QP |
| 0.42 | 24.81 | 0.06 | 9.56 | 34.43 | 47.51 | -13.08 | Average |
| 0.42 | 39.85 | 0.06 | 9.56 | 49.47 | 57.51 | -8.04 | QP |
| 0.61 | 16.20 | 0.07 | 9.54 | 25.81 | 46.00 | -20.19 | Average |
| 0.61 | 30.65 | 0.07 | 9.54 | 40.26 | 56.00 | -15.74 | QP |
| 0.99 | 10.02 | 0.07 | 9.55 | 19.64 | 46.00 | -26.36 | Average |
| 0.99 | 24.43 | 0.07 | 9.55 | 34.05 | 56.00 | -21.95 | QP |
| 3.36 | 9.95 | 0.15 | 9.56 | 19.66 | 46.00 | -26.34 | Average |
| 3.36 | 23.57 | 0.15 | 9.56 | 33.28 | 56.00 | -22.72 | QP |



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7.2 Conducted Peak Output Power

| | | _ | | |
|------------------|--------|------------------|-------------|-----|
| Limit: | | | | |
| Test Method: | ANSI C | 63.10 (2013) Sec | tion 7.8.5 | |
| Test Requirement | 47 CFR | Part 15, Subpart | C 15.247(b) | (1) |

| Frequency range(MHz) | Output power of the intentional radiator(watt) |
|----------------------|--|
| | 1 for ≥50 hopping channels |
| 902-928 | 0.25 for 25≤ hopping channels <50 |
| | 1 for digital modulation |
| | 1 for ≥75 non-overlapping hopping channels |
| 2400-2483.5 | 0.125 for all other frequency hopping systems |
| | 1 for digital modulation |
| 5725-5850 | 1 for frequency hopping systems and digital modulation |

7.2.1 E.U.T. Operation

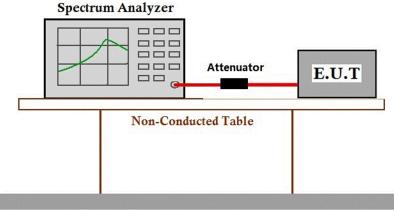
-

| Operating Enviro | nment: | | | | | |
|------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature: | 26.6 °C | Humidity: | 54.9 % RH | Atmospheric Pressure: | 1005 | mbar |

7.2.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 01 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, π /4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.2.3 Test Setup Diagram



Ground Reference Plane

7.2.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.3 20dB Bandwidth

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(a)(1) | |
|------------------|--|--|
| Test Method: | ANSI C63.10 (2013) Section 7.8.7 | |

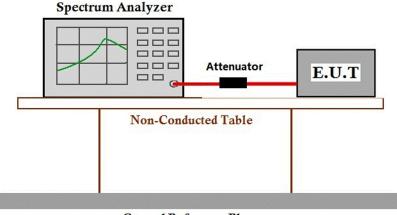
7.3.1 E.U.T. Operation

Operating Environment: Temperature: 26.6 °C Humidity: 54.9 % RH Atmospheric Pressure: 1005 mbar

7.3.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 01 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.3.3 Test Setup Diagram



Ground Reference Plane

7.3.4 Measurement Procedure and Data

Please Refer To Appendix For Details



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7.4 Carrier Frequencies Separation

| Test Requirement | 47 CFR Part 15, Subpart C 15.247a(1) |
|------------------|--------------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 7.8.2 |
| Limit: | |

2/3 of the 20dB bandwidth base on the transmission power is less than 0.125W.

7.4.1 E.U.T. Operation

Operating Environment:

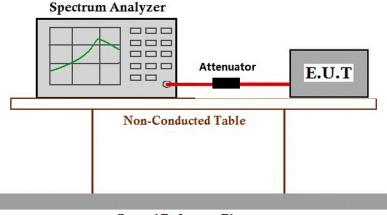
Temperature: 26.6 °C Humidity: 54.9 % RH

Atmospheric Pressure: 1005 mbar

7.4.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, π /4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.4.3 Test Setup Diagram



Ground Reference Plane

7.4.4 Measurement Procedure and Data

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7.5 Hopping Channel Number

Test Requirement47 CFR Part 15, Subpart C 15.247a(1)(iii)Test Method:ANSI C63.10 (2013) Section 7.8.3Limit:Limit:

| Frequency range(MHz) | Number of hopping channels (minimum) |
|----------------------|--------------------------------------|
| 902-928 | 50 for 20dB bandwidth <250kHz |
| | 25 for 20dB bandwidth ≥250kHz |
| 2400-2483.5 | 15 |
| 5725-5850 | 75 |

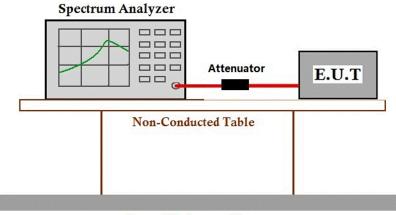
7.5.1 E.U.T. Operation

| Operating Enviror | nment: | | | | | |
|-------------------|---------|-----------|-----------|-----------------------|------|------|
| Temperature: | 26.6 °C | Humidity: | 54.9 % RH | Atmospheric Pressure: | 1005 | mbar |

7.5.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|--|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, π /4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.5.3 Test Setup Diagram



Ground Reference Plane

7.5.4 Measurement Procedure and Data

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7.6 Dwell Time

| Test Requirement | 47 CFR Part 15 |
|------------------|----------------|
| Test Method: | ANSI C63.10 (2 |
| Limit: | |

47 CFR Part 15, Subpart C 15.247a(1)(iii) ANSI C63.10 (2013) Section 7.8.4

| Frequency(MHz) | Limit |
|----------------|---|
| 902-928 | 0.4s within a 20s period(20dB bandwidth<250kHz) |
| | 0.4s within a 10s period(20dB bandwidth≥250kHz) |
| 0400 0400 5 | 0.4s within a period of 0.4s multiplied by the number |
| 2400-2483.5 | of hopping channels |
| 5725-5850 | 0.4s within a 30s period |

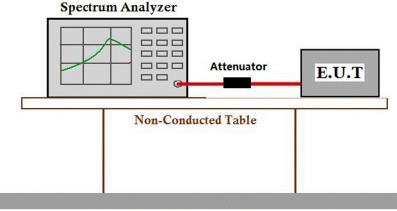
7.6.1 E.U.T. Operation

| Operating Enviro | nment: | | | | |
|------------------|---------|-----------|-----------|------------------------------|------|
| Temperature: | 26.6 °C | Humidity: | 54.9 % RH | Atmospheric Pressure: 1005 m | nbar |

7.6.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 02 | TX_Hop mode_Keep the EUT in frequency hopping mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.6.3 Test Setup Diagram



Ground Reference Plane

7.6.4 Measurement Procedure and Data

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7.7 Conducted Band Edges Measurement

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d) |
|------------------|-------------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 7.8.6 |
| Limit: | |

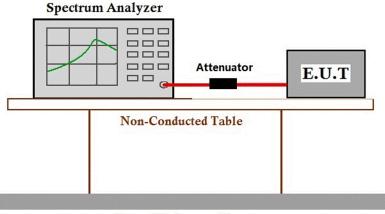
In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

7.7.1 E.U.T. Operation

Operating Environment:

| | operating L | | | | | | | |
|-------|-------------|-------------|-----------|--------------|----------------|--|-----------|-------|
| | Temperatur | e: 26.6 | °C | Humidity: | 54.9 % RH | Atmospheric Pressure: | 1005 | mbar |
| 7.7.2 | Test Mode | Description | | | | | | |
| | Pre-scan / | Mode | Descripti | on | | | | |
| | Final test | Code | Descripti | UII | | | | |
| | Final test | 01 | GFSK m | odulation, τ | T/4DQPSK modul | a continuously transmittir lation, 8DPSK modulatio worst case is recorded in | on. All n | nodes |
| | Final test | 02 | modulati | on, π/4DQF | SK modulation, | requency hopping mode 8DPSK modulation. All t case is recorded in the r | modes | |
| | | D . | | | | | | |

7.7.3 Test Setup Diagram



Ground Reference Plane

7.7.4 Measurement Procedure and Data

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7.8 Conducted Spurious Emissions

| Test Requirement | 47 CFR Part 15, Subpart C 15.247(d) |
|------------------|-------------------------------------|
| Test Method: | ANSI C63.10 (2013) Section 7.8.8 |
| Limit: | |

In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operating, the radio frequency power that is produced by the intentional radiator shall be at least 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, provided the transmitter demonstrates compliance with the peak conducted power limits. If the transmitter complies with the conducted power limits based on the use of RMS averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation required under this paragraph shall be 30 dB instead of 20 dB. Attenuation below the general limits specified in §15.209(a) is not required. In addition, radiated emissions which fall in the restricted bands, as defined in §15.205(a), must also comply with the radiated emission limits specified in §15.209(a) (see §15.205(c).

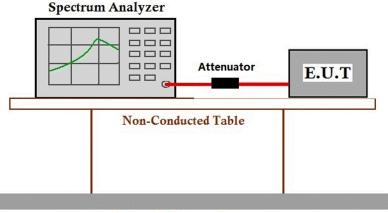
7.8.1 E.U.T. Operation

| Operating Enviro | onment: | | | | |
|------------------|---------|-----------|-----------|--------------------------|----------|
| Temperature: | 26.6 °C | Humidity: | 54.9 % RH | Atmospheric Pressure: 10 | 005 mbar |

7.8.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 01 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |

7.8.3 Test Setup Diagram



Ground Reference Plane

7.8.4 Measurement Procedure and Data

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7.9 Radiated Emissions which fall in the restricted bands

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.10.5 |
| Limit: | |

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.9.1 E.U.T. Operation

Operating Environment:

/ Mada

| Temperature: | 25.1 °C | Humidity: | 56.0 % RH | Atmospheric Pressure: | 1010 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|
|--------------|---------|-----------|-----------|-----------------------|------|------|

7.9.2 Test Mode Description

| Pre-scan / Final test | Code | Description |
|--------------------------|------|---|
| Final test | 01 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



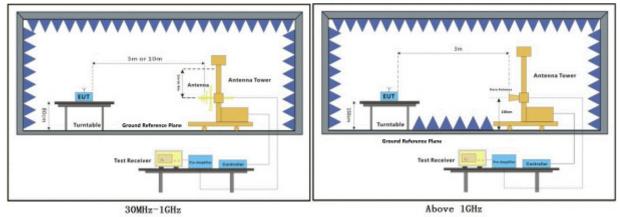
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7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. Test the EUT in the lowest channel, the Highest channel.

i. 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.

j. Repeat above procedures until all frequencies measured was complete.

Remark 1: Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor

Remark 2: 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: Antenna: 3 denotes the type of antenna for above 1000MHz.



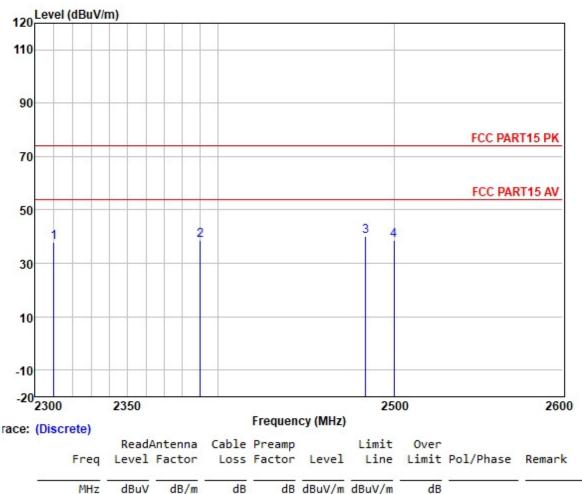
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Report No.: GZCR210602041502 Page: 29 of 87

Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:High; Antenna: 3



| | | | | | | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | |
|---|----------|-------|-------|------|-------|-------|--|--------|------------|------|
| 1 | 2310.000 | 45.04 | 27.15 | 3.32 | 37.62 | 37.89 | 74.00 | -36.11 | HORIZONTAL | Peak |
| 2 | 2390.000 | 45.39 | 27.33 | 3.48 | 37.59 | 38.61 | 74.00 | -35.39 | HORIZONTAL | Peak |
| 3 | 2483.500 | 46.68 | 27.48 | 3.53 | 37.57 | 40.12 | 74.00 | -33.88 | HORIZONTAL | Peak |
| 4 | 2500.000 | 45.16 | 27.50 | 3.40 | 37.56 | 38.50 | 74.00 | -35.50 | HORIZONTAL | Peak |



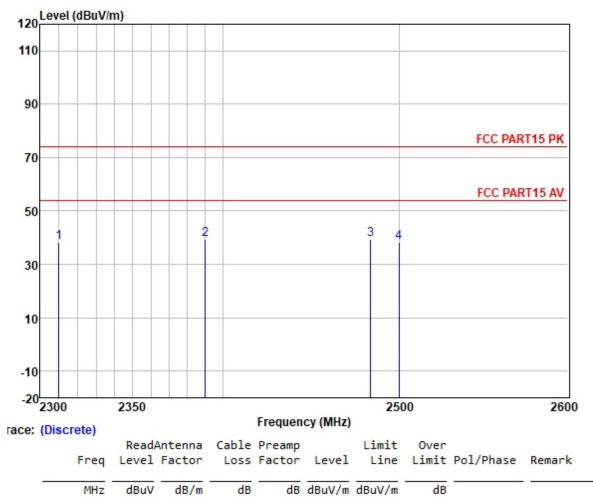
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low; Antenna: 3



| 1 | 2310.000 | 45.38 | 27.15 | 3.32 | 37.62 | 38.23 | 74.00 | -35.77 | HORIZONTAL | Peak |
|---|----------|-------|-------|------|-------|-------|-------|--------|------------|------|
| 2 | 2390.000 | 45.99 | 27.33 | 3.48 | 37.59 | 39.21 | 74.00 | -34.79 | HORIZONTAL | Peak |
| 3 | 2483.500 | 45.74 | 27.48 | 3.53 | 37.57 | 39.18 | 74.00 | -34.82 | HORIZONTAL | Peak |
| 4 | 2500.000 | 44.96 | 27.50 | 3.40 | 37.56 | 38.30 | 74.00 | -35.70 | HORIZONTAL | Peak |



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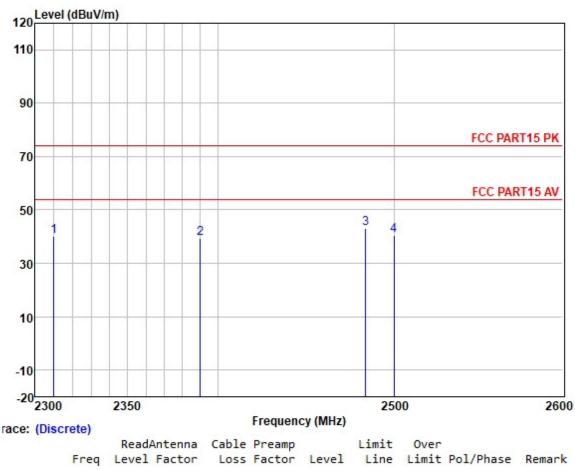
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Report No.: GZCR210602041502 Page: 31 of 87

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High; Antenna: 3



| | Freq | Level | Factor | LOSS | Factor | Level | Line | Limit | Po1/Phase | Remark | |
|---|----------|-------|--------|------|--------|--------|--------|--------|-----------|--------|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | - |
| 1 | 2310.000 | 47.36 | 27.15 | 3.32 | 37.62 | 40.21 | 74.00 | -33.79 | VERTICAL | Peak | |
| 2 | 2390.000 | 46.32 | 27.33 | 3.48 | 37.59 | 39.54 | 74.00 | -34.46 | VERTICAL | Peak | |
| 3 | 2483.500 | 49.61 | 27.48 | 3.53 | 37.57 | 43.05 | 74.00 | -30.95 | VERTICAL | Peak | |
| 4 | 2500.000 | 47.32 | 27.50 | 3.40 | 37.56 | 40.66 | 74.00 | -33.34 | VERTICAL | Peak | |



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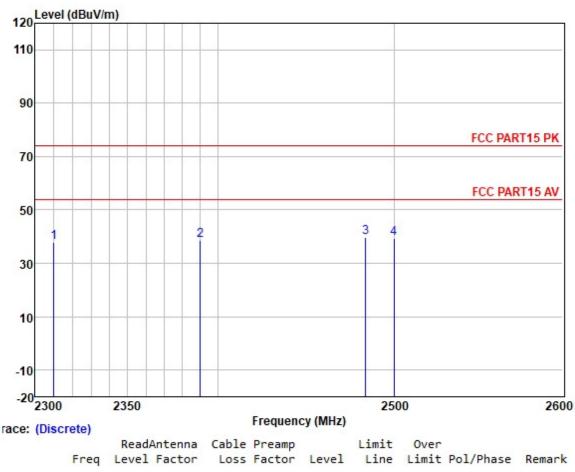
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Report No.: GZCR210602041502 Page: 32 of 87

Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low; Antenna: 3



| | iicq | LEVEL | ractor | 2033 | ractor | LEVEL | LTHC | LIMIC | FOI/FildSe | Reliar K | |
|---|----------|-------|--------|------|--------|--------|--------|--------|------------|----------|---|
| | MHz | dBuV | dB/m | dB | dB | dBuV/m | dBuV/m | dB | | | _ |
| 1 | 2310.000 | 45.02 | 27.15 | 3.32 | 37.62 | 37.87 | 74.00 | -36.13 | VERTICAL | Peak | |
| 2 | 2390.000 | 45.55 | 27.33 | 3.48 | 37.59 | 38.77 | 74.00 | -35.23 | VERTICAL | Peak | |
| 3 | 2483.500 | 46.34 | 27.48 | 3.53 | 37.57 | 39.78 | 74.00 | -34.22 | VERTICAL | Peak | |
| 4 | 2500.000 | 45.94 | 27.50 | 3.40 | 37.56 | 39.28 | 74.00 | -34.72 | VERTICAL | Peak | |



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7.10 Radiated Spurious Emissions

| Test Requirement | 47 CFR Part 15, Subpart C 15.205 & 15.209 |
|------------------|---|
| Test Method: | ANSI C63.10 (2013) Section 6.4,6.5,6.6 |
| Limit: | |

| Frequency(MHz) | Field strength(microvolts/meter) | Measurement distance(meters) |
|----------------|----------------------------------|------------------------------|
| 0.009-0.490 | 2400/F(kHz) | 300 |
| 0.490-1.705 | 24000/F(kHz) | 30 |
| 1.705-30.0 | 30 | 30 |
| 30-88 | 100 | 3 |
| 88-216 | 150 | 3 |
| 216-960 | 200 | 3 |
| Above 960 | 500 | 3 |

Remark: The emission limits shown in the above table are based on measurements employing a CISPR quasi-peak detector except for the frequency bands 9-90kHz, 110-490kHz and above 1000 MHz. Radiated emission limits in these three bands are based on measurements employing an average detector, 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.

7.10.1 E.U.T. Operation

Operating Environment:

| Temperature: | 24.1 °C | Humidity: | 50.9 % RH | Atmospheric Pressure: | 1010 | mbar |
|--------------|---------|-----------|-----------|-----------------------|------|------|
|--------------|---------|-----------|-----------|-----------------------|------|------|

7.10.2 Test Mode Description

| Pre-scan / Final test | Mode Code | Description |
|--------------------------|--------------|---|
| Final test | 01 | TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, $\pi/4DQPSK$ modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report. |



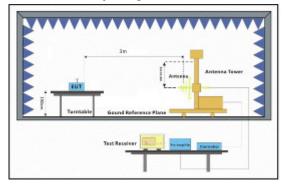
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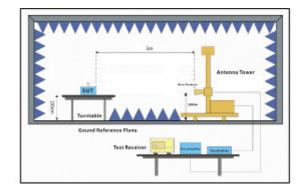
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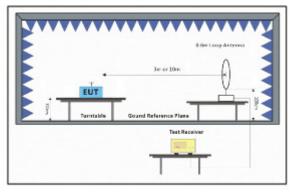


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7.10.3 Test Setup Diagram









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7.10.4 Measurement Procedure and Data

a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.

c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.

d. 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.

e. 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.

f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.

g. 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.

h. Test the EUT in the lowest channel, the middle channel, the Highest channel.

i. 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.

j. Repeat above procedures until all frequencies measured was complete.

Remark:

1) For emission below 1GHz, through pre-scan found the worst case is the lowest channel. Only the worst case is recorded in the report.

2) 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

3) Scan from 9kHz to 25GHz, the disturbance above 18GHz and below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.

4) 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. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

5) Antenna: 2 denotes the type of antenna for 30-1000MHz; Antenna: 3 denotes the type of antenna for above 1000MHz.



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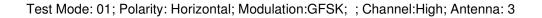
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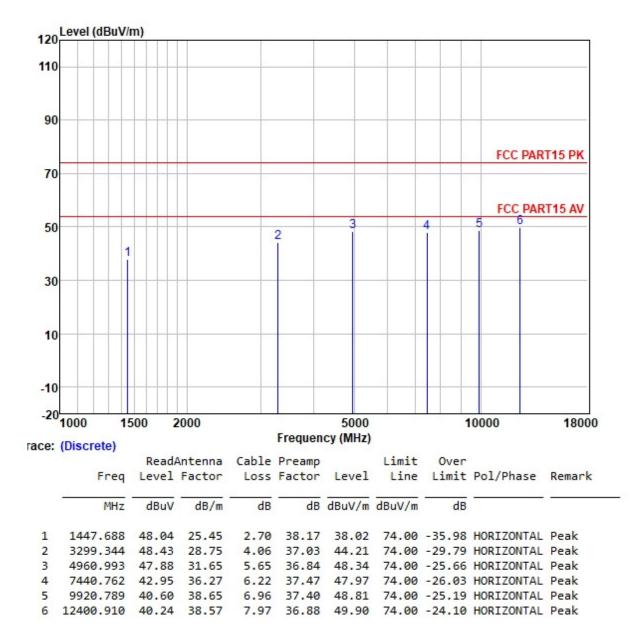
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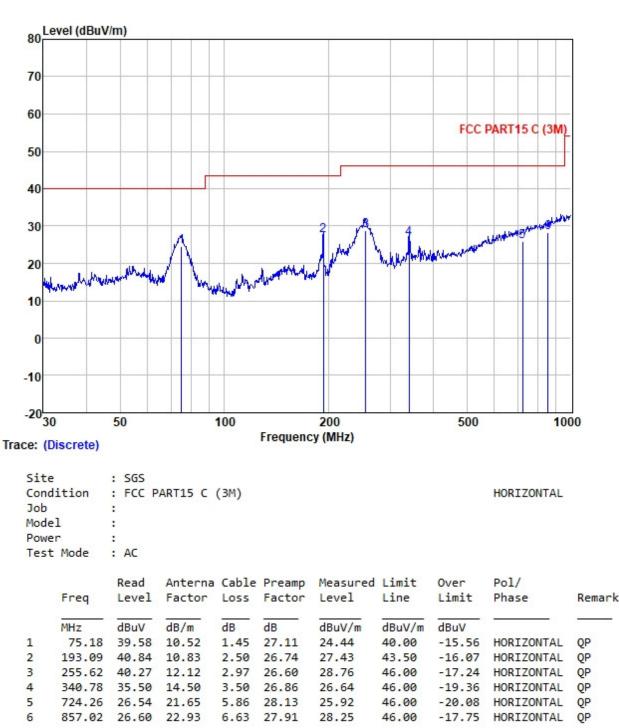


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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:Low; Antenna: 2

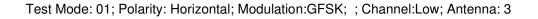


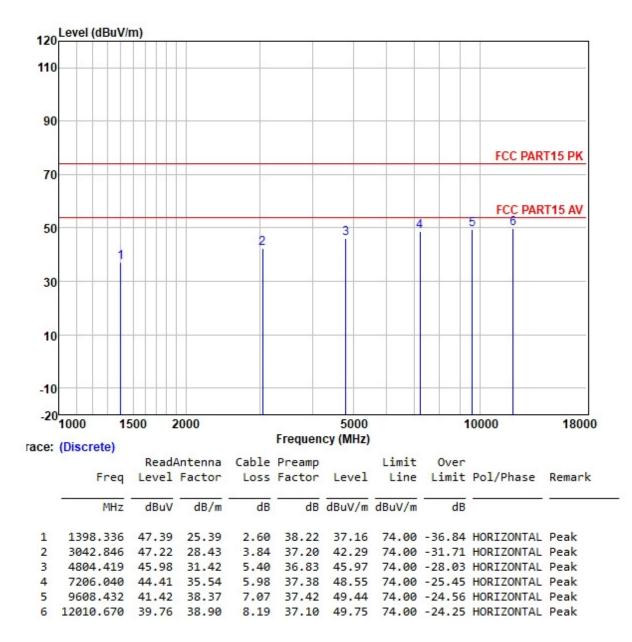
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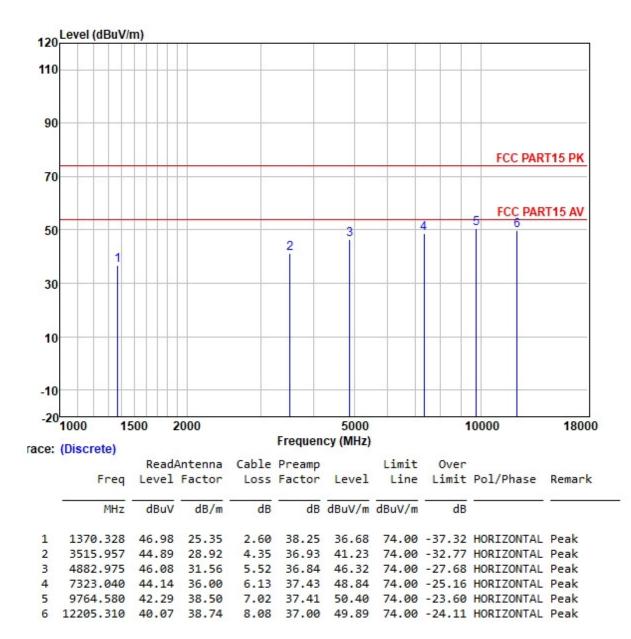
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Test Mode: 01; Polarity: Horizontal; Modulation:GFSK; ; Channel:middle; Antenna: 3





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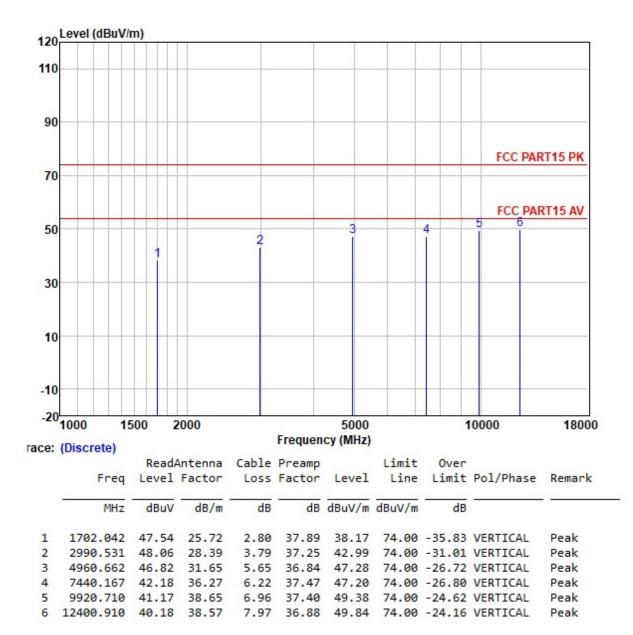
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:High; Antenna: 3





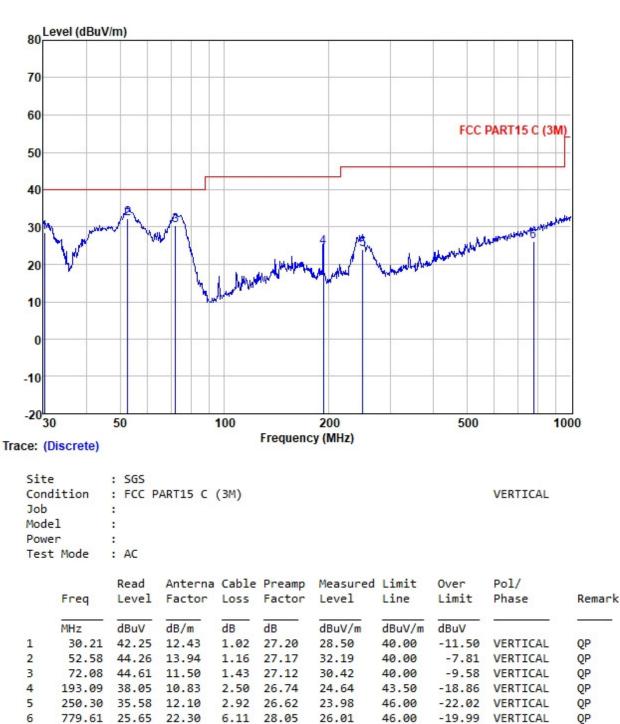
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Test Mode: 01; Polarity: Vertical; Modulation:GFSK; ; Channel:Low; Antenna: 2

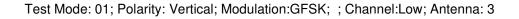


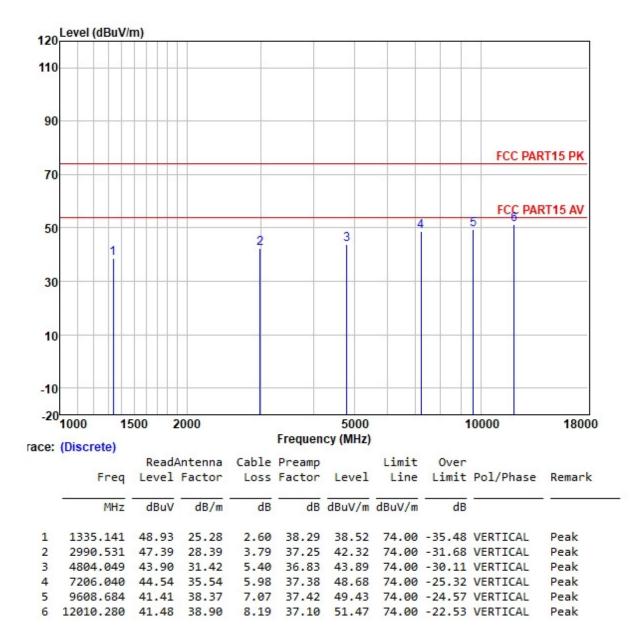
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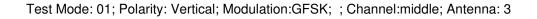


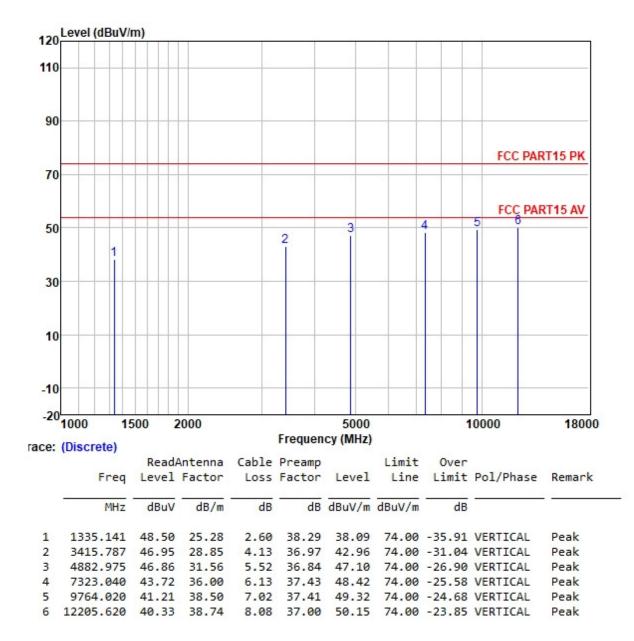
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EUT Constructional Details (EUT Photos) 8

Refer to external and internal photos for GZCR2106020415AT



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Appendix 9

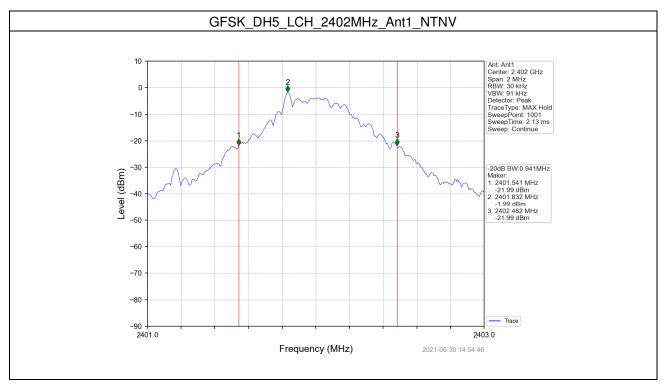
Cable Loss= 0.9 dB 1. Bandwidth

1.1 20dB BW

1.1.1 Test Result

| Mode | ТХ Туре | Frequency (MHz) | Packet Type | Ant | 20dB Bandwidth (MHz) | Limit | Verdict | |
|----------------------------|---------|--------------------|-------------|-----|----------------------|-------|---------|--|
| | | 2402 | DH5 | 1 | 0.94 | / | Note1 | |
| GFSK | SISO | 2441 | DH5 | 1 | 0.98 | / | Note1 | |
| | | 2480 | DH5 | 1 | 1.01 | / | Note1 | |
| | SISO | 2402 | 2DH5 | 1 | 1.28 | / | Note1 | |
| Pi/4DQPSK | | 2441 | 2DH5 | 1 | 1.28 | / | Note1 | |
| | | 2480 | 2DH5 | 1 | 1.29 | / | Note1 | |
| | SISO | 2402 | 3DH5 | 1 | 1.25 | / | Note1 | |
| 8DPSK | | 2441 | 3DH5 | 1 | 1.26 | / | Note1 | |
| | | 2480 | 3DH5 | 1 | 1.28 | / | Note1 | |
| Note1: Only for Report Use | | | | | | | | |

1.1.2 Test Graph





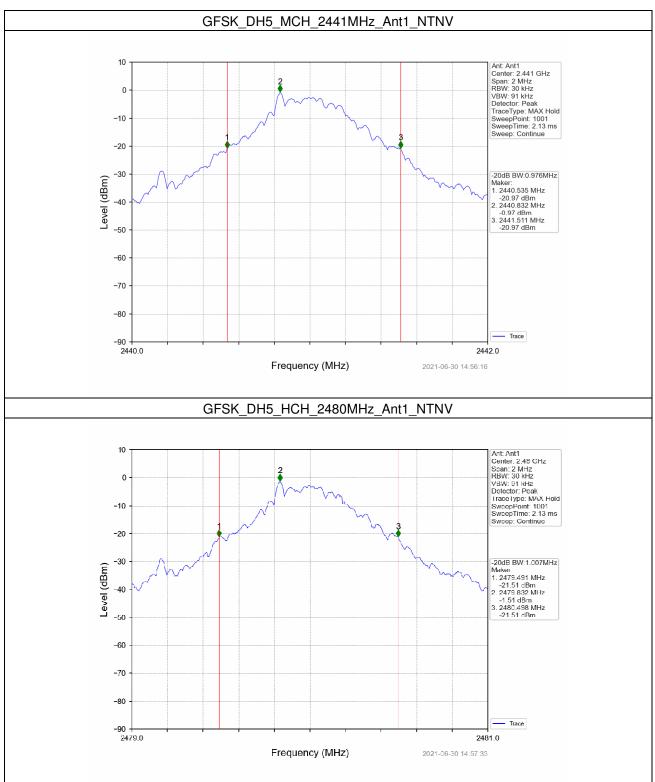
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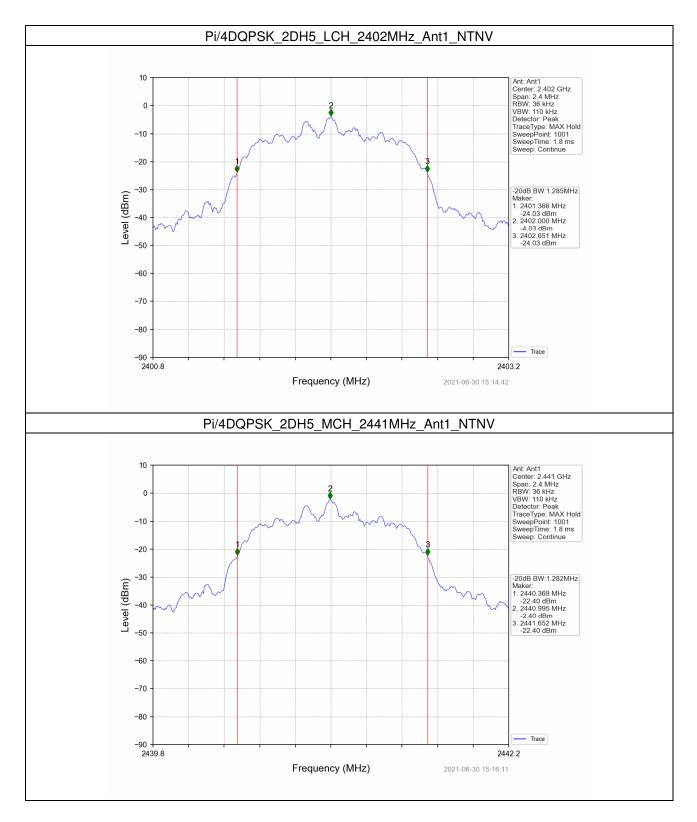
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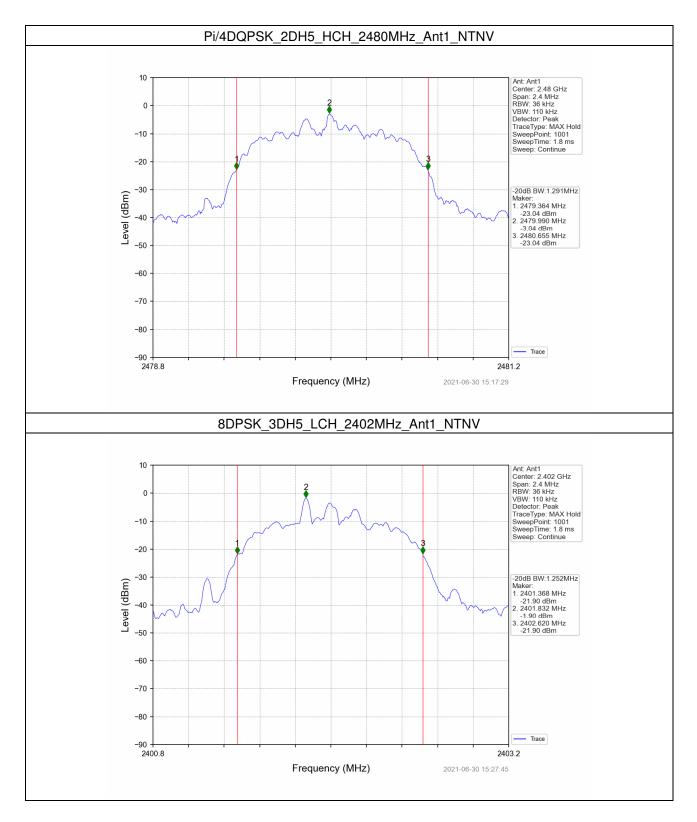
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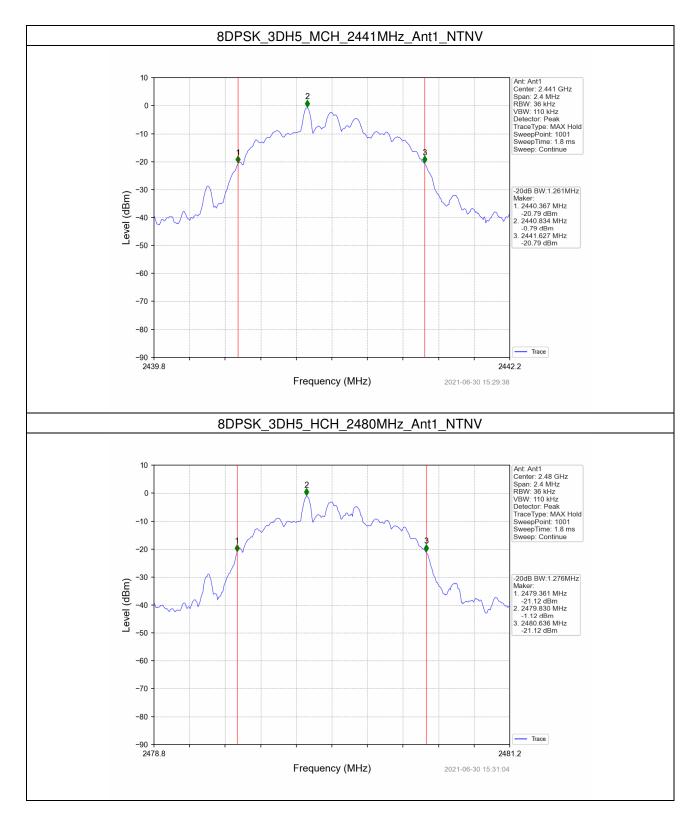
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2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

| Mode | TX Frequency Type (MHz) | | Packet Type | Measured Peak Output Power (dBm) Ant1 | Limit (dBm) | Verdict | | |
|-------------------------------------|----------------------------|-----------|-------------|---|-------------|---------|--|--|
| | | 2402 | DH5 | -1.09 | <=30 | Pass | | |
| GFSK | SISO | 2441 | DH5 | 0.01 | <=30 Pas | | | |
| | | 2480 | DH5 | -0.42 | <=30 | Pass | | |
| | | 2402 | 2DH5 | -1.25 | <=20.97 | Pass | | |
| Pi/4DQPSK | SISO | 2441 | 2DH5 | -0.12 | <=20.97 | Pass | | |
| | | 2480 | 2DH5 | -0.53 | <=20.97 | Pass | | |
| | | 2402 | 3DH5 | -1.18 | <=20.97 | Pass | | |
| 8DPSK | SISO | iISO 2441 | 3DH5 | -0.06 | <=20.97 | Pass | | |
| | | 2480 | 3DH5 | -0.47 | <=20.97 | Pass | | |
| Note1: Antenna Gain: Ant1: 0.00dBi; | | | | | | | | |



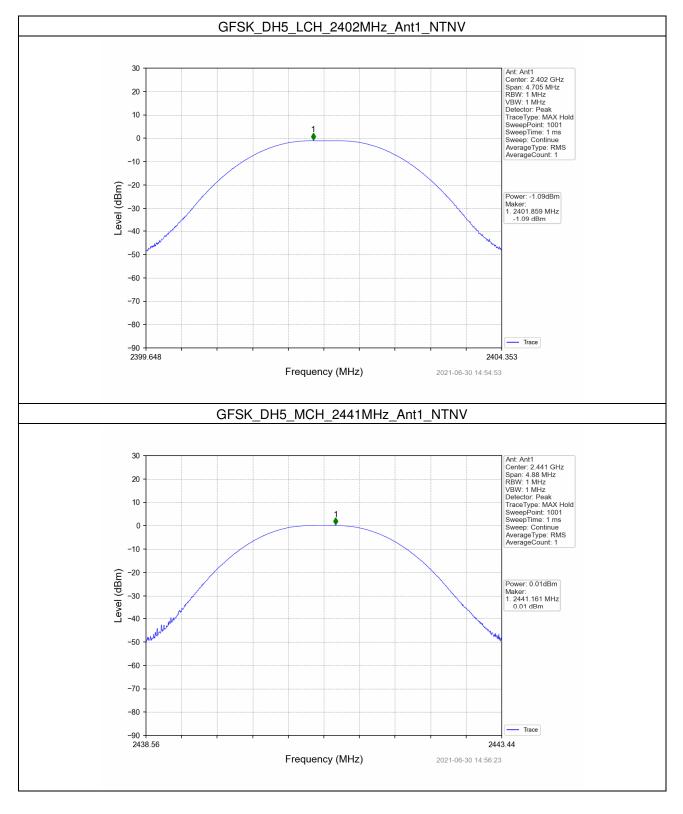
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2.1.2 Test Graph



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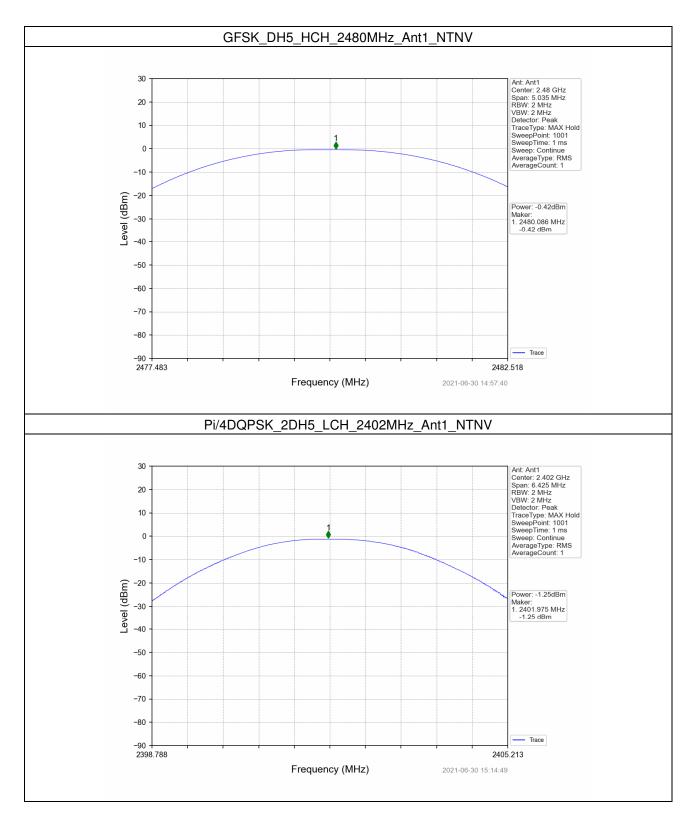
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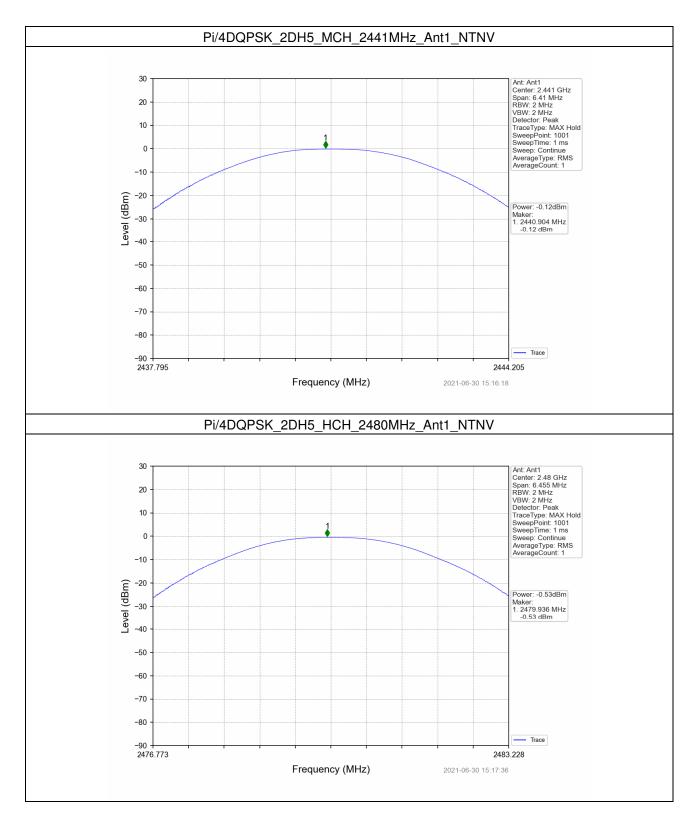
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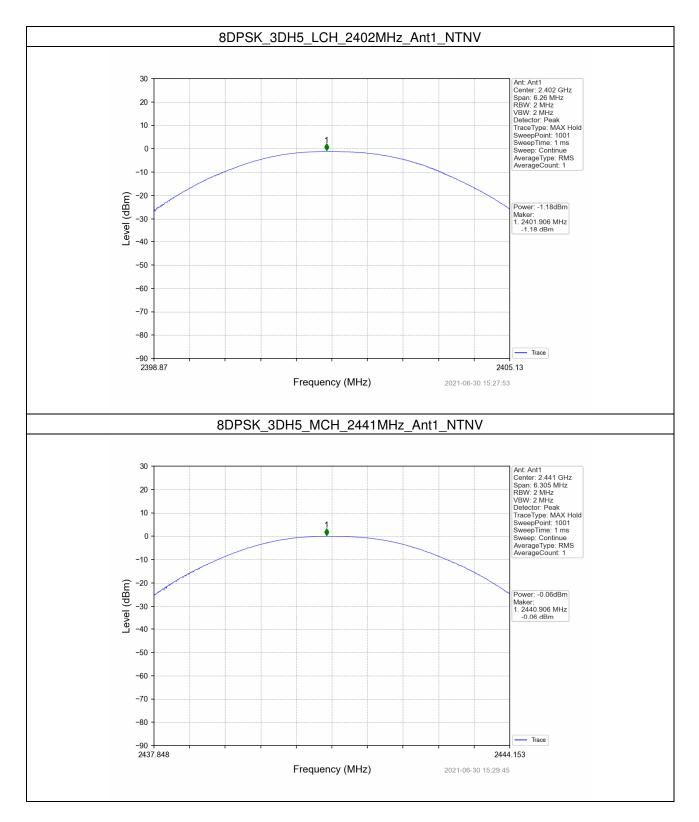
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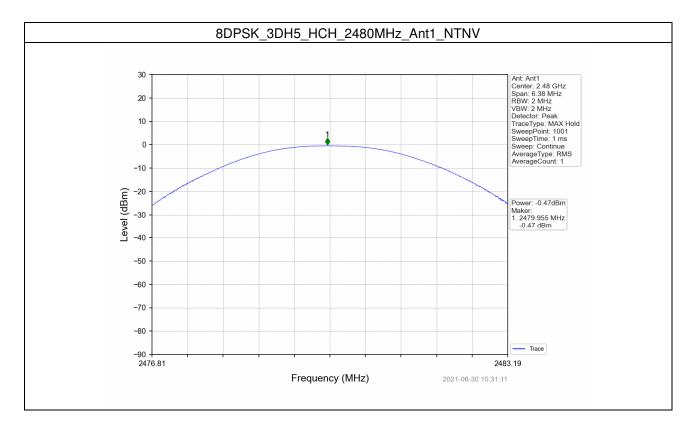
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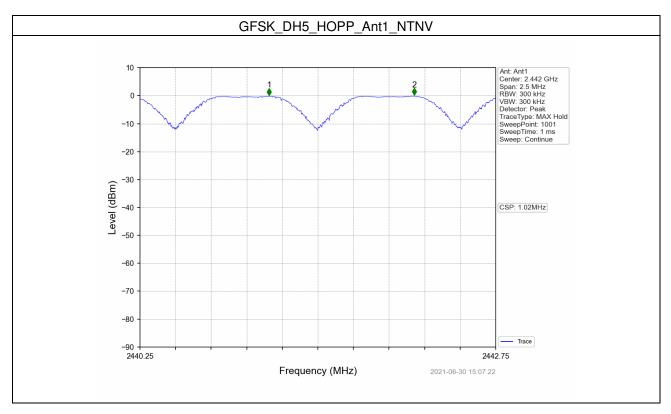
3. Carrier Frequency Separation

3.1 Ant1

3.1.1 Test Result

| | Ant1 | | | | | | | | | |
|-----------|------------|--------------------|----------------|-----------------------------|-------------------------|----------------|---------|--|--|--|
| Mode | TX Type | Frequency (MHz) | Packet Type | Channel Separation (MHz) | 20dB Bandwidth (MHz) | Limit (MHz) | Verdict | | | |
| GFSK | SISO | HOPP | DH5 | 1.02 | 0.94 | >=0.941 | Pass | | | |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 1.00 | 1.28 | >=0.857 | Pass | | | |
| 8DPSK | SISO | HOPP | 3DH5 | 1.00 | 1.25 | >=0.835 | Pass | | | |

3.1.2 Test Graph





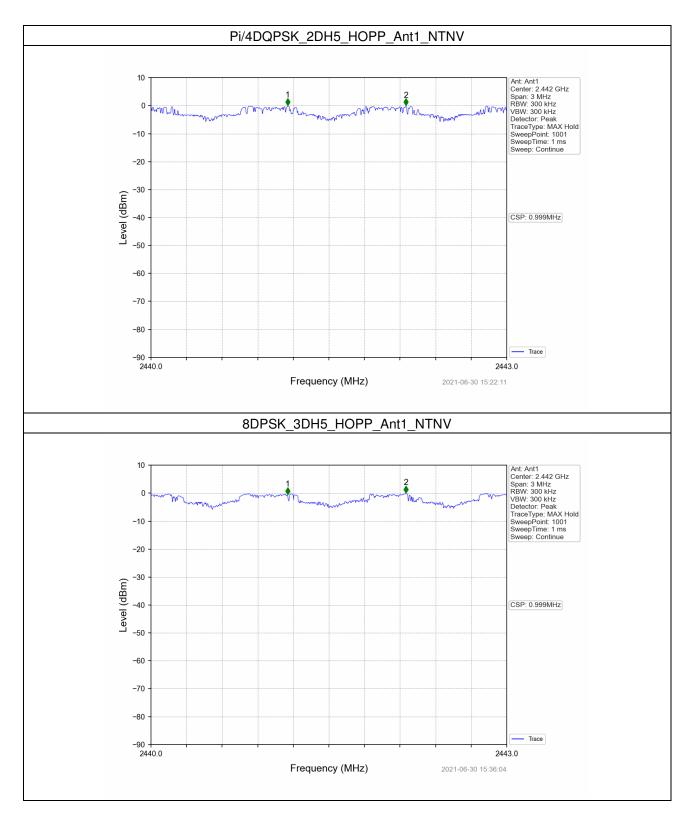
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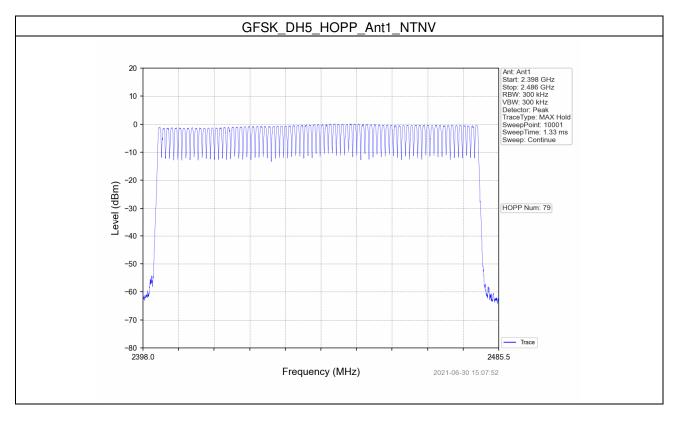
4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Num of Hopping Frequencies Ant1 | Limit | Verdict |
|-----------|------------|--------------------|-------------|------------------------------------|-------|---------|
| GFSK | SISO | HOPP | DH5 | 79 | >=15 | Pass |
| Pi/4DQPSK | SISO | HOPP | 2DH5 | 79 | >=15 | Pass |
| 8DPSK | SISO | HOPP | 3DH5 | 79 | >=15 | Pass |

4.1.2 Test Graph





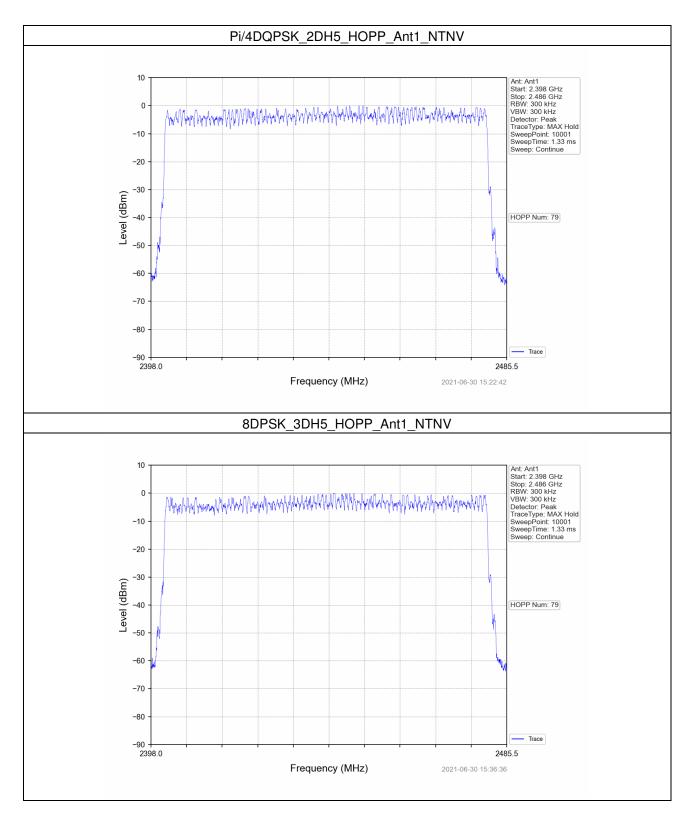
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5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

| | Ant1 | | | | | | | | | |
|-----------|------------|--------------------|----------------|-------------------------------------|---------------------------|--|-----------------------|---------------|---------|--|
| Mode | TX Type | Frequency (MHz) | Packet Type | Duration of Single Pulse (ms) | Observation Period (s) | Num of Pulse in Observation Period | Dwell Time (ms) | Limit (ms) | Verdict | |
| | | HOPP | DH1 | 1.62 | 31.60 | 77 | 125.05 | <=400 | Pass | |
| GFSK | SISO | | DH3 | 4.12 | 31.60 | 58 | 238.96 | <=400 | Pass | |
| | | | DH5 | 6.62 | 31.60 | 42 | 278.00 | <=400 | Pass | |
| | SISO | HOPP | 2DH1 | 2.88 | 31.60 | 77 | 221.91 | <=400 | Pass | |
| Pi/4DQPSK | | | 2DH3 | 4.13 | 31.60 | 59 | 243.91 | <=400 | Pass | |
| | | | 2DH5 | 6.63 | 31.60 | 42 | 278.50 | <=400 | Pass | |
| | | SISO HOPP | 3DH1 | 2.88 | 31.60 | 77 | 221.91 | <=400 | Pass | |
| 8DPSK | SISO | | 3DH3 | 4.13 | 31.60 | 59 | 243.79 | <=400 | Pass | |
| | | | 3DH5 | 6.63 | 31.60 | 42 | 278.59 | <=400 | Pass | |



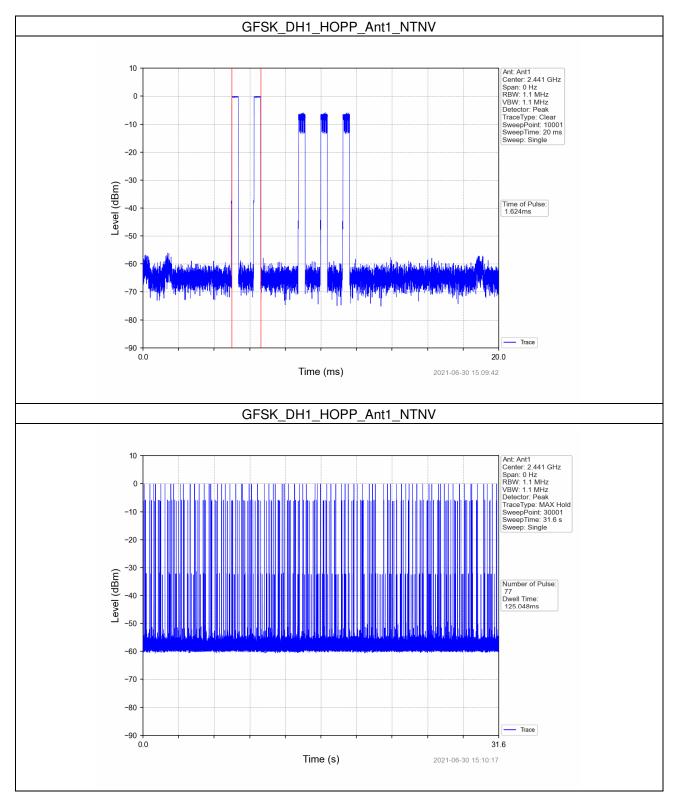
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5.1.2 Test Graph





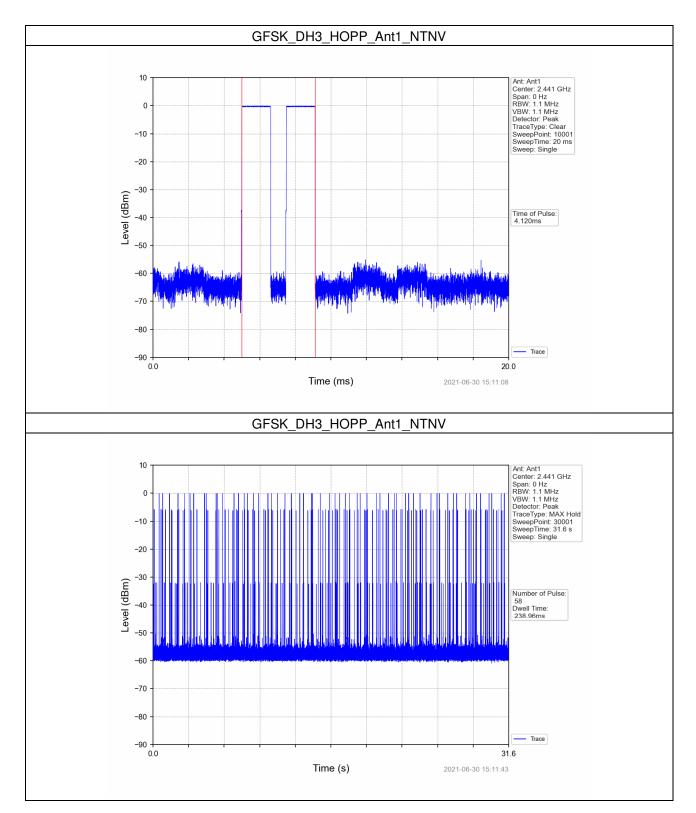
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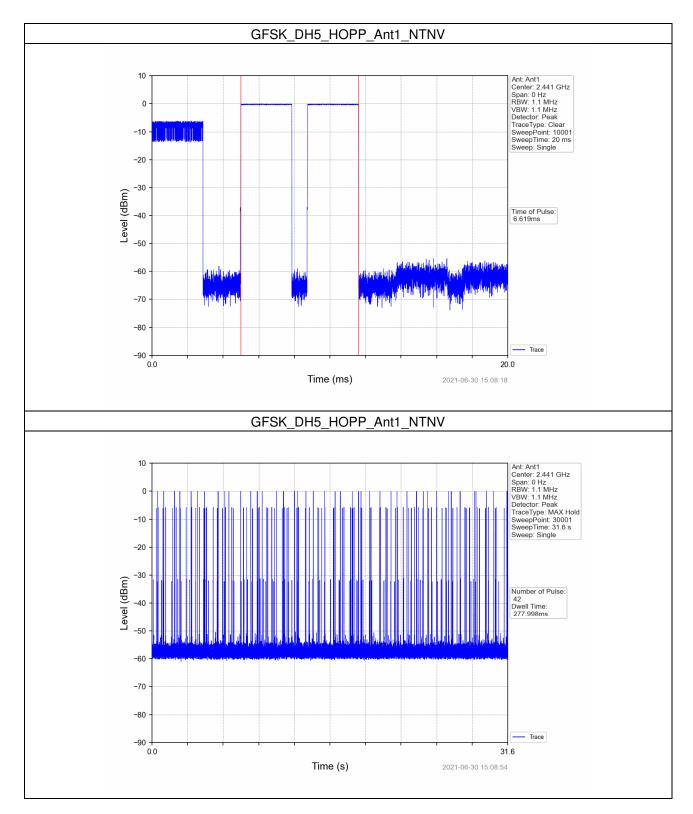
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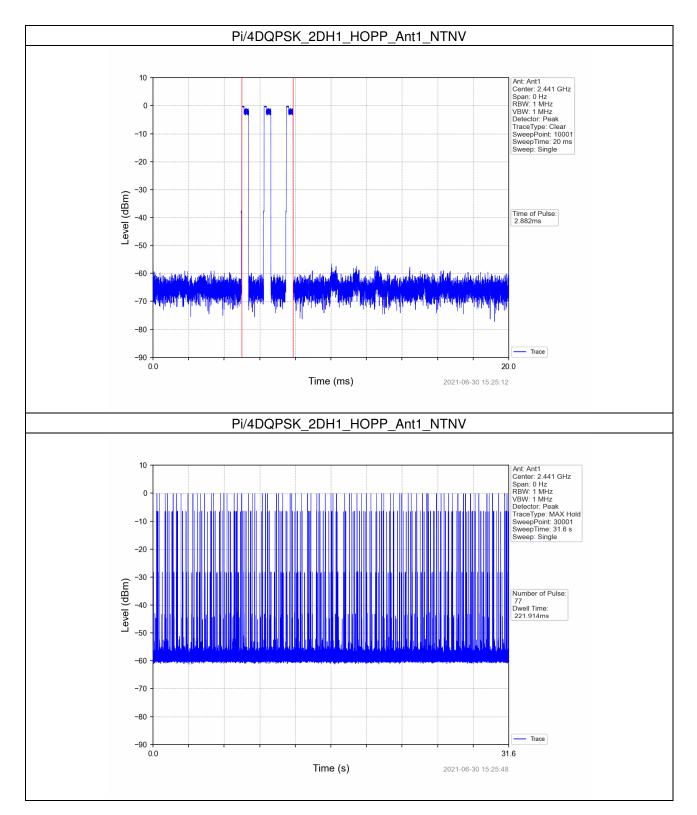
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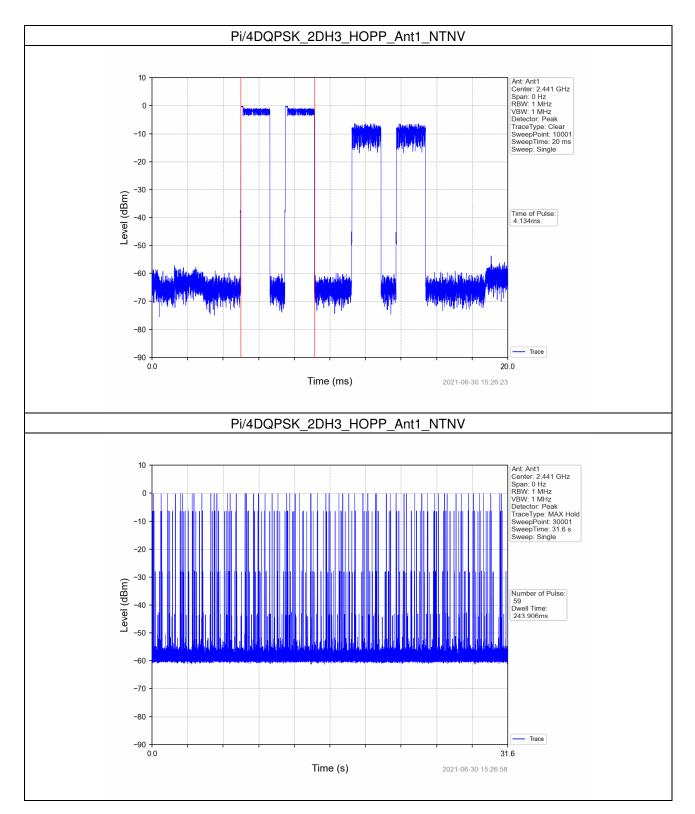
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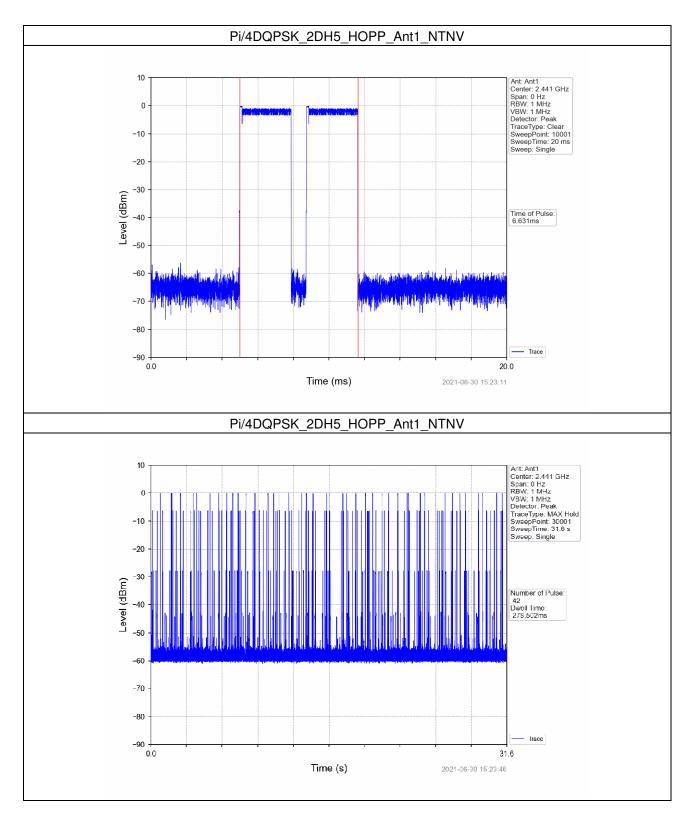
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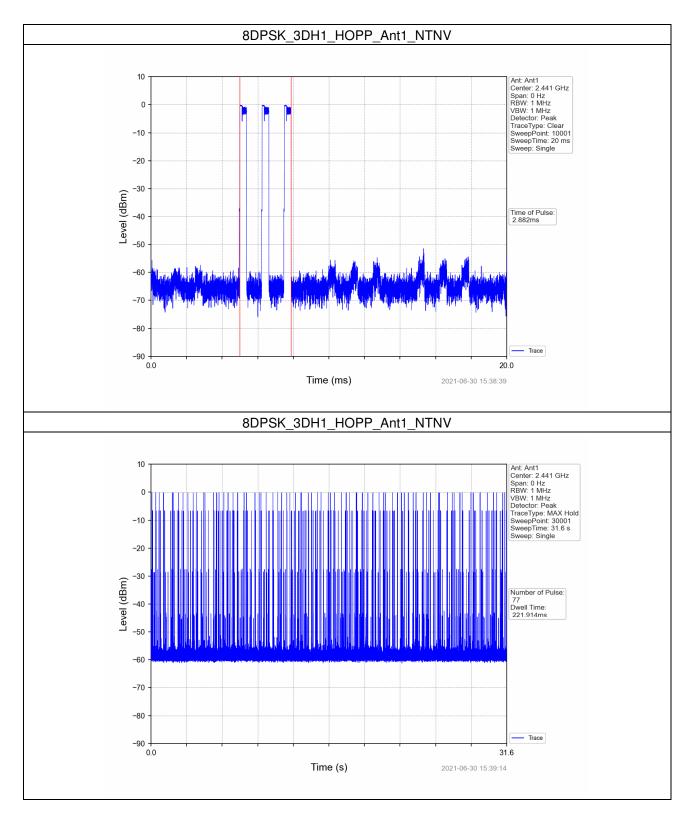
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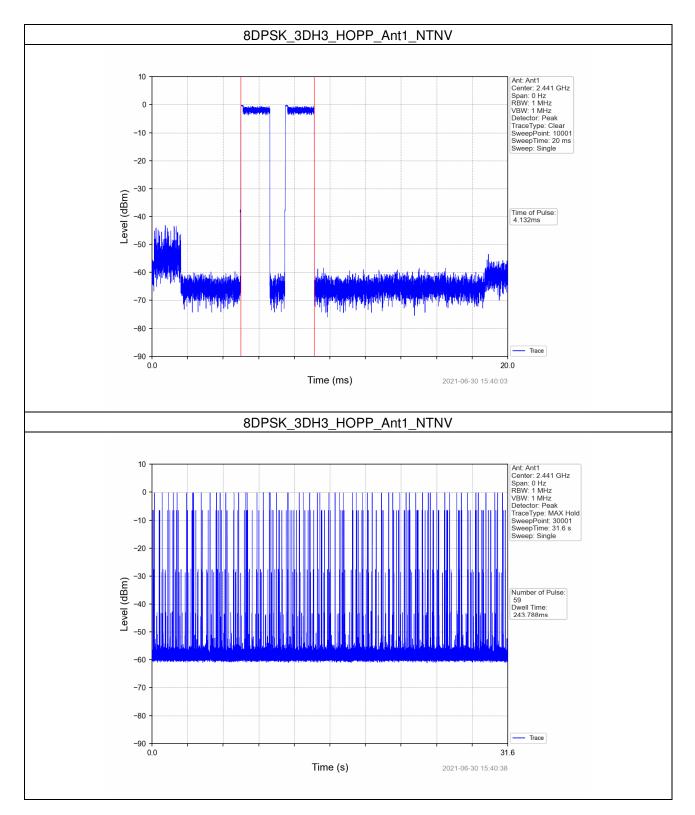
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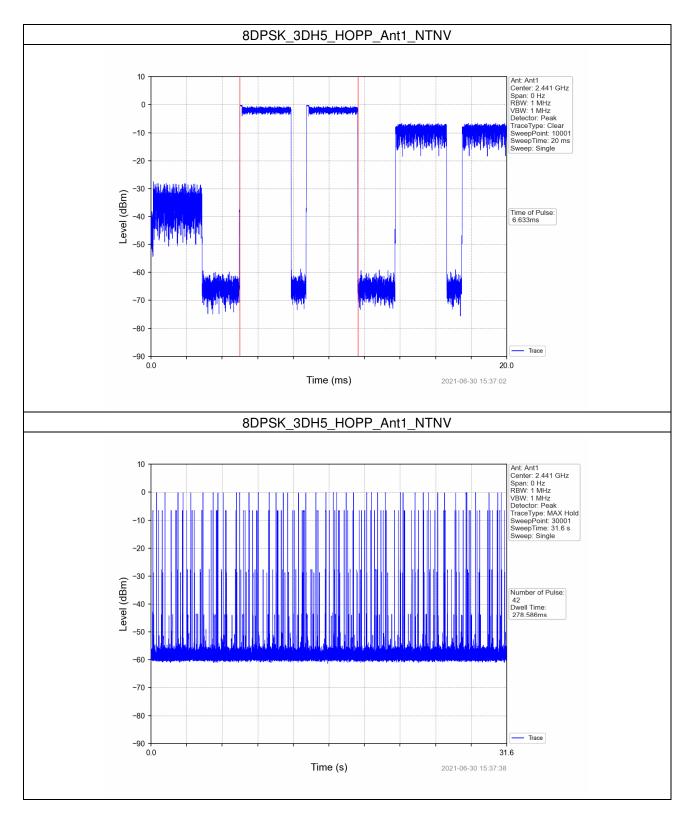
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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Ref

6.1.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict | |
|--|------------|--------------------|-------------|-----|--------------------------|-------------|---------|--|
| GFSK | | 2402 | DH5 | 1 | -1.26 | / | / | |
| | SISO | 2441 | DH5 | 1 | -0.17 | / | / | |
| | | 2480 | DH5 | 1 | -0.74 | / | / | |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | -1.59 | / | / | |
| | | 2441 | 2DH5 | 1 | -0.48 | / | / | |
| | | 2480 | 2DH5 | 1 | -0.85 | / | / | |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | -1.43 | / | / | |
| | | 2441 | 3DH5 | 1 | -0.31 | / | / | |
| | | 2480 | 3DH5 | 1 | -0.71 | / | / | |
| Note1: Befer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level | | | | | | | | |

art 15.247 (d) and ANSI C63.10-2013, the channel contains was used to establish the reference level.



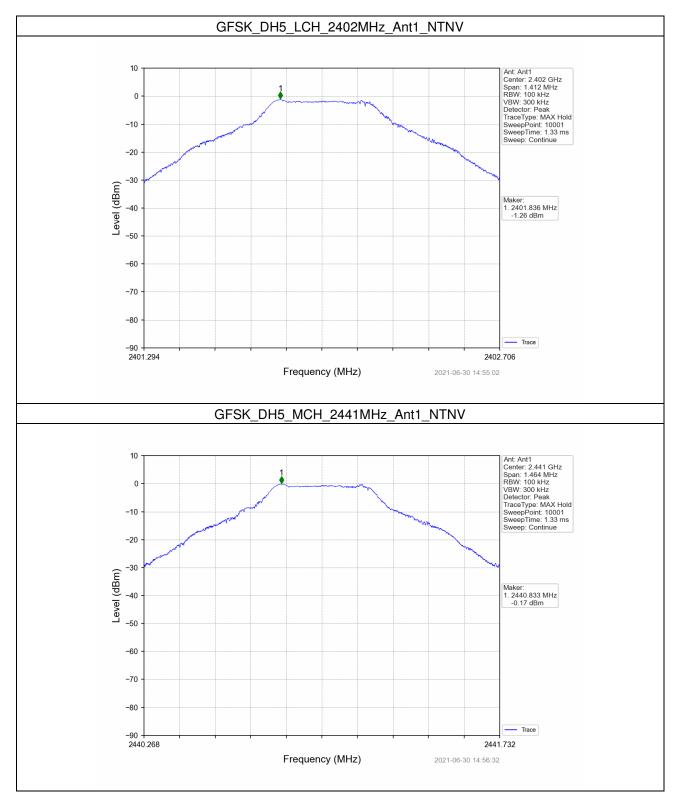
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6.1.2 Test Graph



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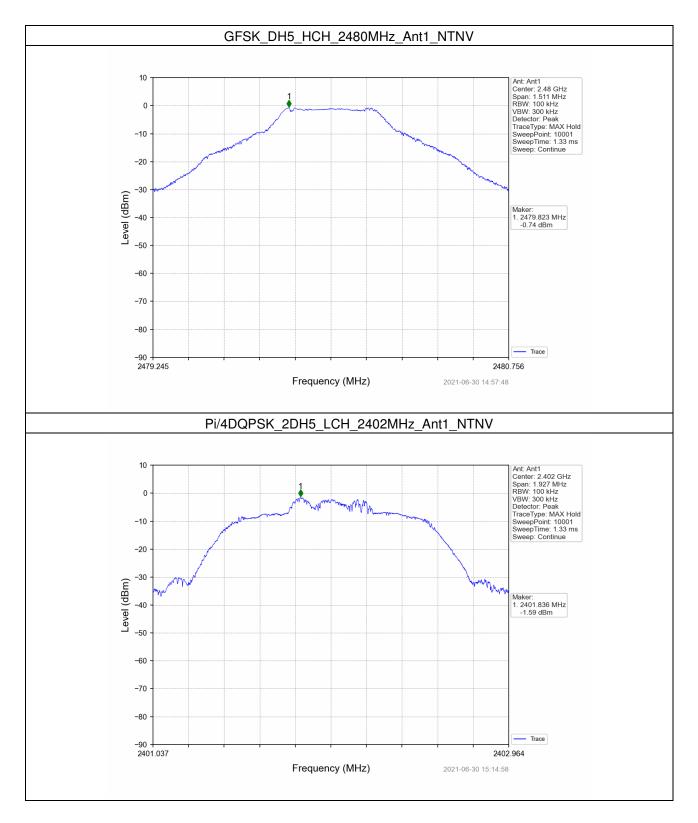
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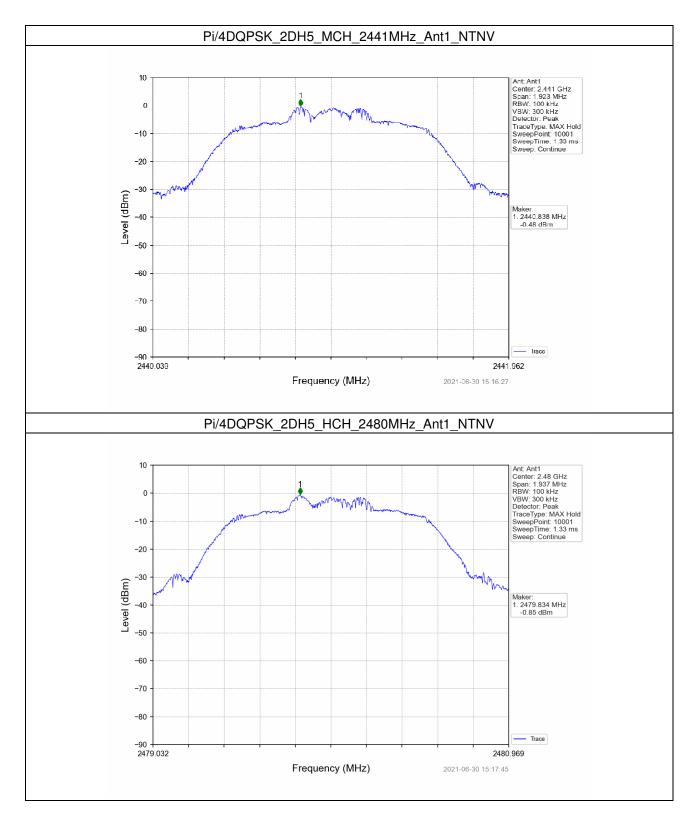
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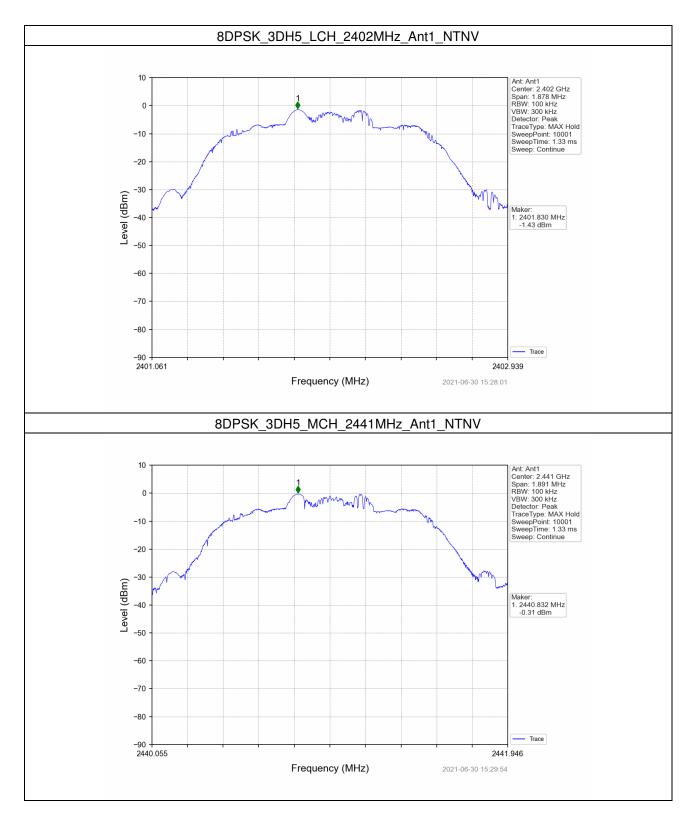
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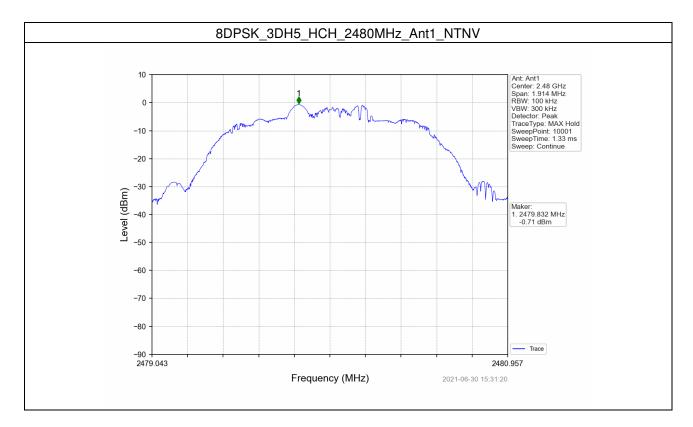
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6.2 CSE

6.2.1 Test Result

| Mode | TX Type | Frequency (MHz) | Packet Type | Ant | Level of Reference (dBm) | Limit (dBm) | Verdict |
|---|------------|--------------------|-------------|-----|--------------------------|------------------------|---------|
| GFSK | SISO | 2402 | DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2441 | DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2480 | DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | HOPP | DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| Pi/4DQPSK | SISO | 2402 | 2DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2441 | 2DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2480 | 2DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | HOPP | 2DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| 8DPSK | SISO | 2402 | 3DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2441 | 3DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | 2480 | 3DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| | | HOPP | 3DH5 | 1 | Refer To Test Graph | Refer To Test Graph | Pass |
| Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2013, the channel contains the maximum PSD level was used to establish the reference level. | | | | | | | |



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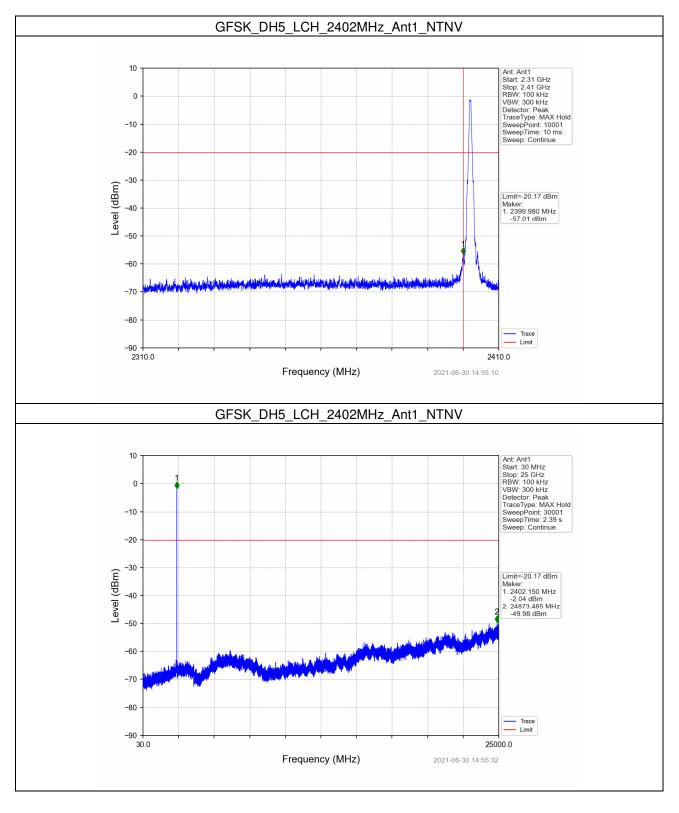
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6.2.2 Test Graph



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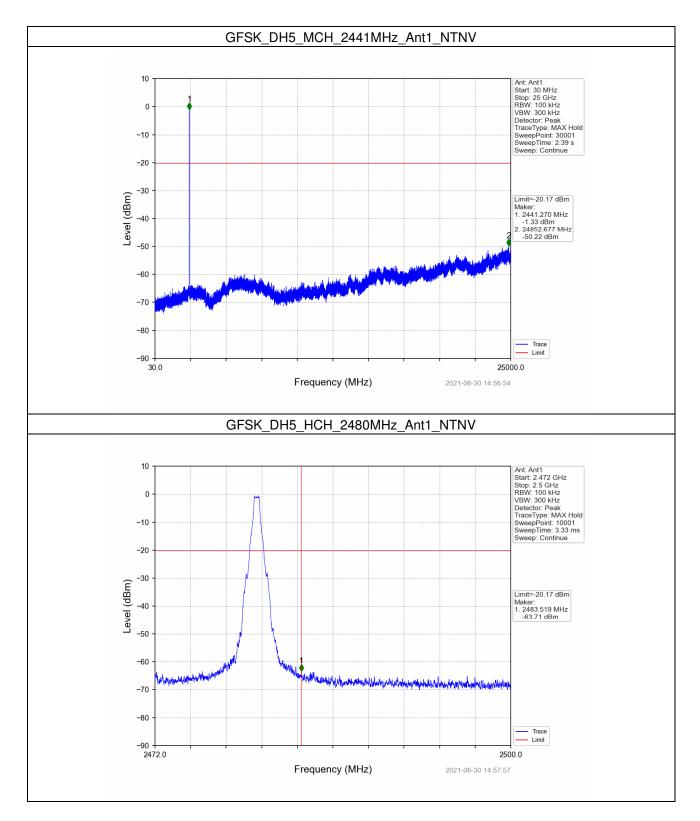
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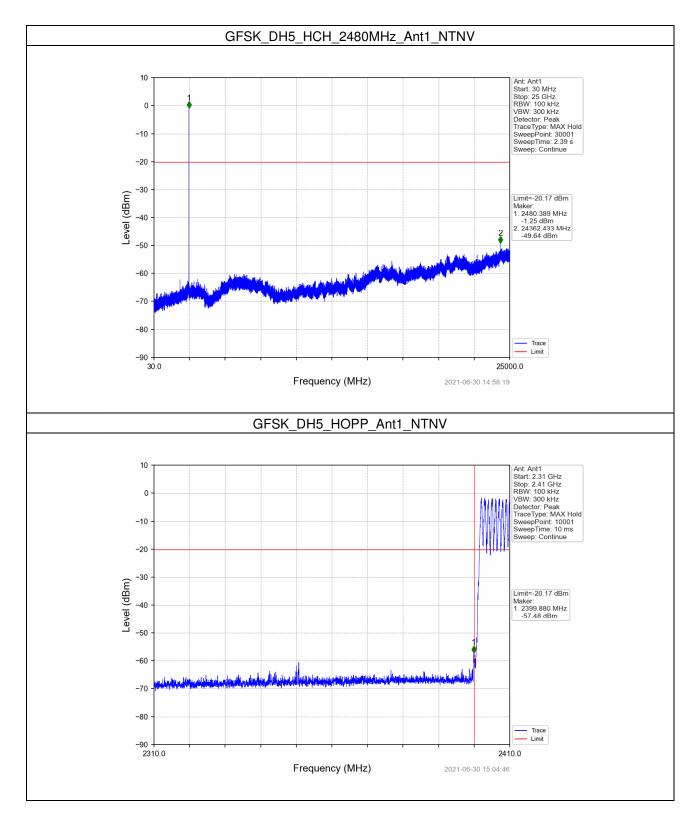
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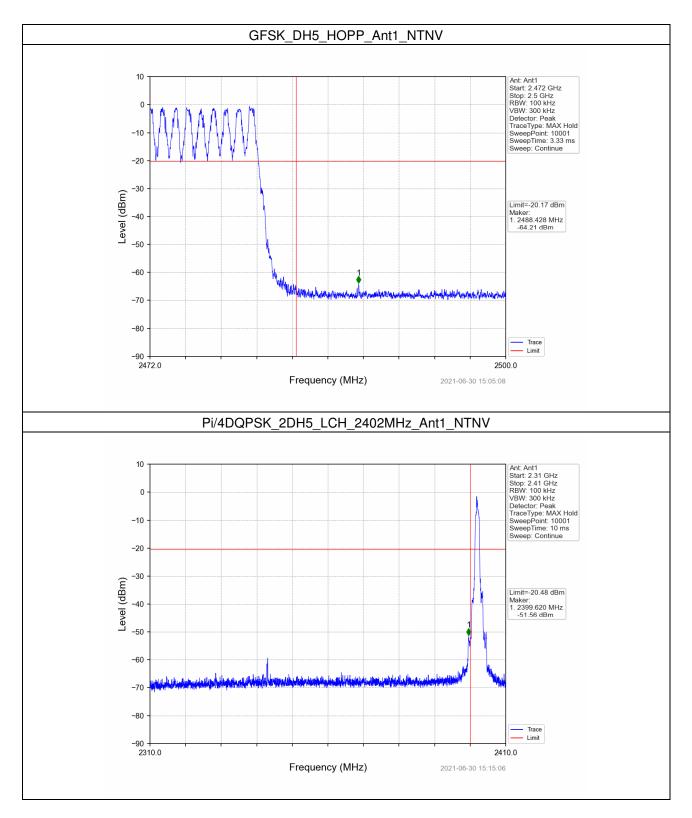
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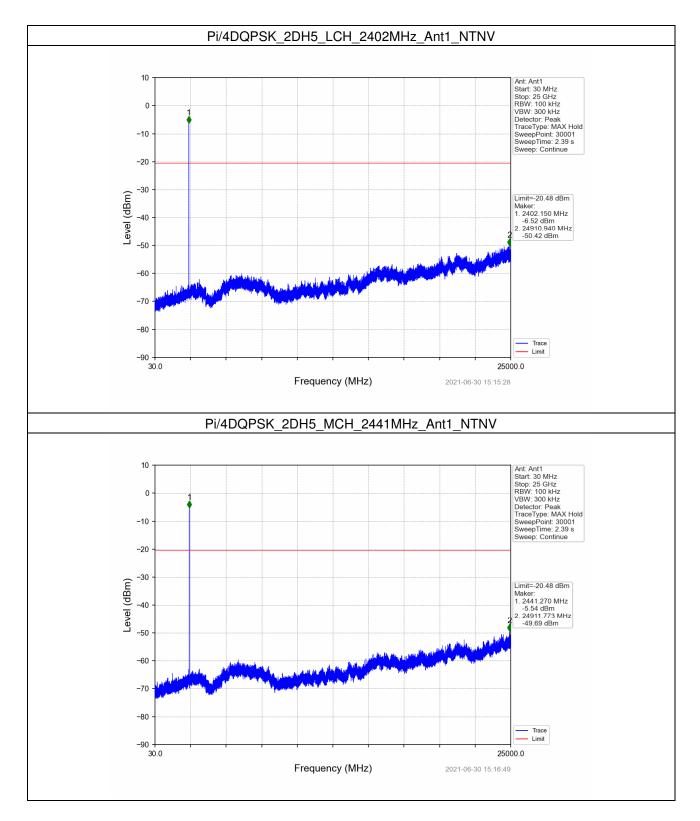
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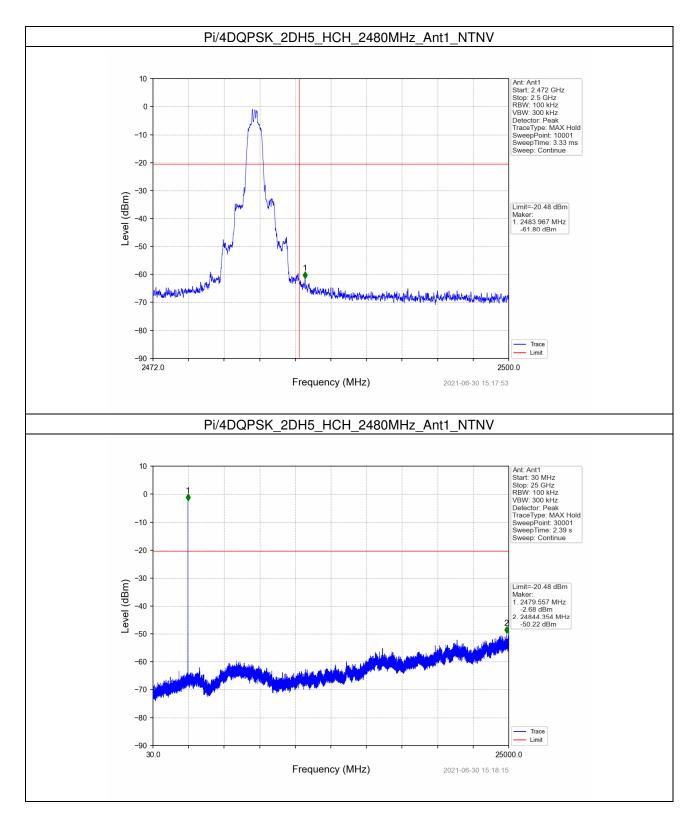
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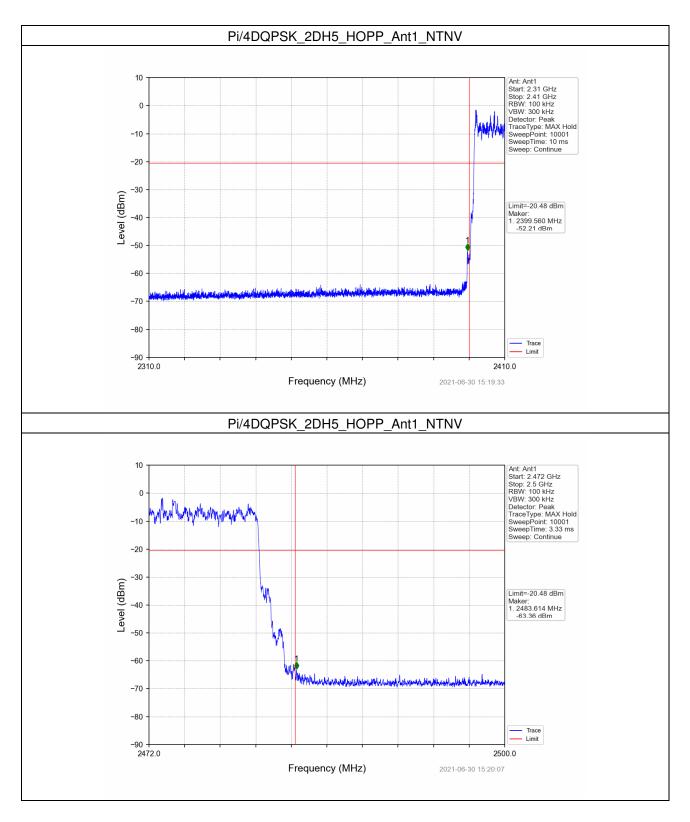
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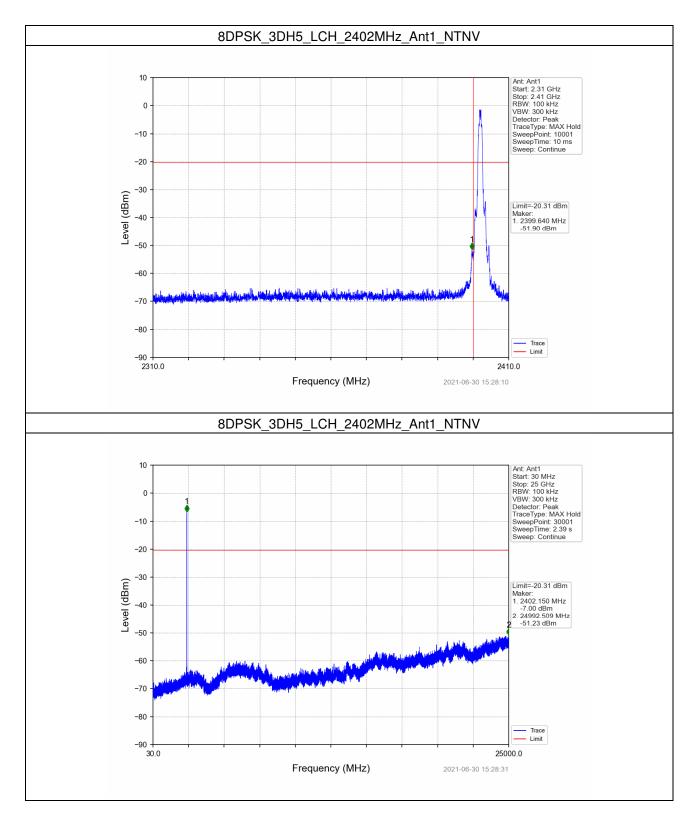
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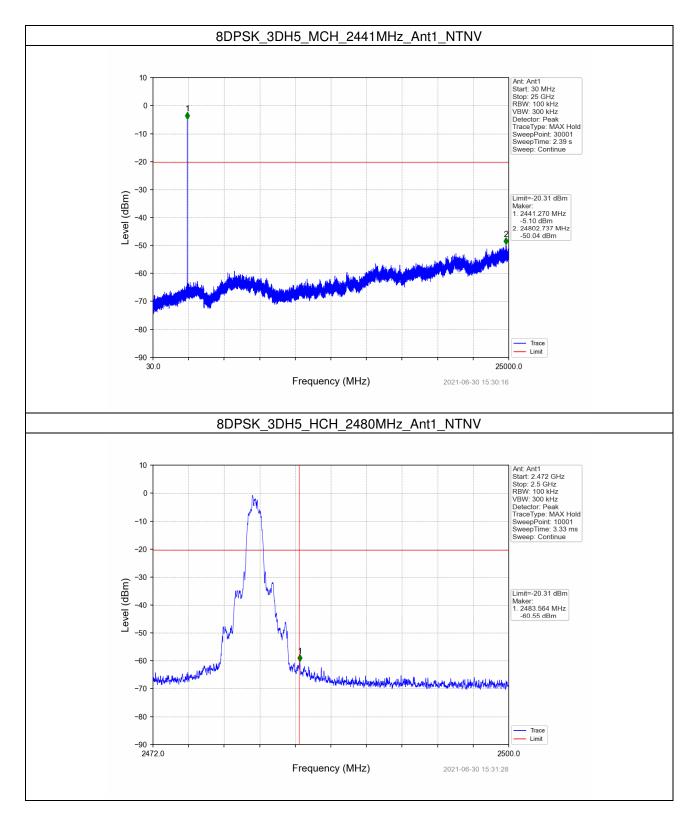
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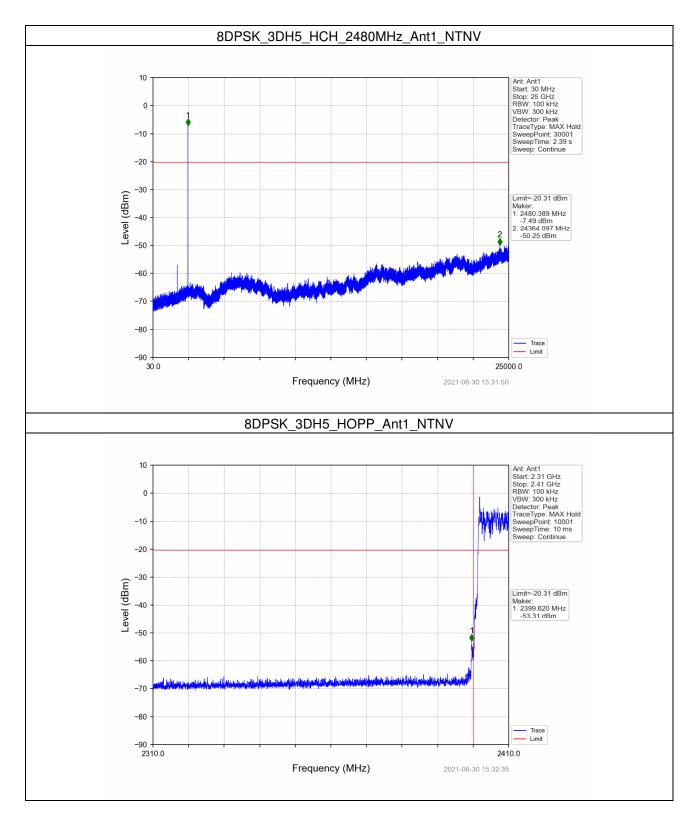
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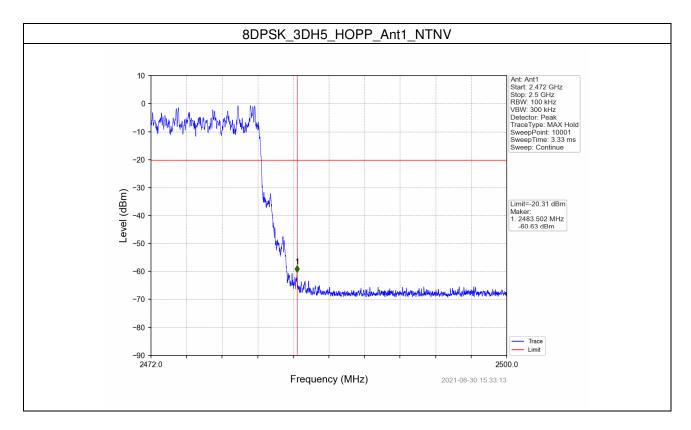
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