

Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 1 of 97

TEST REPORT

Application No.: FYCR2304000064AT (SGS SZ NO.: T52310270153EM)
Applicant: Les entreprises PaulBella1
Address of Applicant: 4822 Boulevard De La Renaissance, Laval, Québec H7L 5P3, Canada
Equipment Under Test (EUT):
EUT Name: Infant Swing
Item No.: BB006K ♣
 ♣ Please refer to section 2 of this report which indicates which sample was actually tested and which were electrically identical.
FCC ID: 2BA6TPB523
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2023-04-24
Date of Test: 2023-05-30 to 2023-06-09
Date of Issue: 2023-06-15

Test Result:	Pass*
---------------------	--------------

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

Winkey Wang

Winkey Wang
EMC Technical Manager



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 2 of 97

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-06-15		Original

Authorized for issue by:				
		Tree Zhan		
		Tree Zhan/Project Engineer		
		Winkey Wang		
		Winkey Wang/Reviewer		



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 3 of 97

2 Test Summary

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

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Conducted Emissions at AC Power Line (150kHz-30MHz)	47 CFR Part 15, Subpart C 15.247	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		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	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2013) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2013) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 4 of 97

Declaration of EUT Family Grouping:

Item No.: BB006K

There are three different color samples of the product.

Only the item BB006K(Gray color) was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for the above items, with only difference on colors and decorations.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 5 of 97

3 Contents

	Page
1 COVER PAGE	1
2 TEST SUMMARY	3
3 CONTENTS	5
4 GENERAL INFORMATION	7
4.1 DETAILS OF E.U.T.	7
4.2 DESCRIPTION OF SUPPORT UNITS	7
4.3 MEASUREMENT UNCERTAINTY	8
4.4 TEST LOCATION	9
4.5 TEST FACILITY	9
4.6 DEVIATION FROM STANDARDS	9
4.7 ABNORMALITIES FROM STANDARD CONDITIONS	9
5 EQUIPMENT LIST	10
6 RADIO SPECTRUM TECHNICAL REQUIREMENT	14
6.1 ANTENNA REQUIREMENT	14
6.1.1 Test Requirement:	14
6.1.2 Conclusion	14
6.2 OTHER REQUIREMENTS FREQUENCY HOPPING SPREAD SPECTRUM SYSTEM HOPPING SEQUENCE	15
6.2.1 Test Requirement:	15
6.2.2 Conclusion	15
7 RADIO SPECTRUM MATTER TEST RESULTS	17
7.1 CONDUCTED EMISSIONS AT AC POWER LINE (150kHz-30MHz)	17
7.1.1 E.U.T. Operation	17
7.1.2 Test Mode Description	17
7.1.3 Test Setup Diagram	18
7.1.4 Measurement Procedure and Data	18
7.2 CONDUCTED PEAK OUTPUT POWER	21
7.2.1 E.U.T. Operation	21
7.2.2 Test Mode Description	21
7.2.3 Test Setup Diagram	22
7.2.4 Measurement Procedure and Data	22
7.3 20dB BANDWIDTH	23
7.3.1 E.U.T. Operation	23
7.3.2 Test Mode Description	23
7.3.3 Test Setup Diagram	23
7.3.4 Measurement Procedure and Data	23
7.4 CARRIER FREQUENCIES SEPARATION	24
7.4.1 E.U.T. Operation	24
7.4.2 Test Mode Description	24
7.4.3 Test Setup Diagram	24



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 6 of 97

7.4.4	Measurement Procedure and Data.....	24
7.5	HOPPING CHANNEL NUMBER	25
7.5.1	E.U.T. Operation.....	25
7.5.2	Test Mode Description	25
7.5.3	Test Setup Diagram	25
7.5.4	Measurement Procedure and Data.....	25
7.6	DWELL TIME	26
7.6.1	E.U.T. Operation.....	26
7.6.2	Test Mode Description	26
7.6.3	Test Setup Diagram	26
7.6.4	Measurement Procedure and Data.....	26
7.7	CONDUCTED BAND EDGES MEASUREMENT	27
7.7.1	E.U.T. Operation.....	27
7.7.2	Test Mode Description	27
7.7.3	Test Setup Diagram	28
7.7.4	Measurement Procedure and Data.....	28
7.8	CONDUCTED SPURIOUS EMISSIONS.....	29
7.8.1	E.U.T. Operation.....	29
7.8.2	Test Mode Description	29
7.8.3	Test Setup Diagram	29
7.8.4	Measurement Procedure and Data.....	29
7.9	RADIATED EMISSIONS WHICH FALL IN THE RESTRICTED BANDS.....	30
7.9.1	E.U.T. Operation.....	30
7.9.2	Test Mode Description	30
7.9.3	Test Setup Diagram	32
7.9.4	Measurement Procedure and Data.....	32
7.10	RADIATED SPURIOUS EMISSIONS BELOW 1GHz	37
7.10.1	E.U.T. Operation.....	37
7.10.2	Test Mode Description	37
7.10.3	Test Setup Diagram	38
7.10.4	Measurement Procedure and Data.....	39
7.11	RADIATED SPURIOUS EMISSIONS ABOVE 1GHz.....	42
7.11.1	E.U.T. Operation.....	42
7.11.2	Test Mode Description	42
7.11.3	Test Setup Diagram	42
7.11.4	Measurement Procedure and Data.....	43
8	TEST SETUP PHOTO.....	50
9	EUT CONSTRUCTIONAL DETAILS (EUT PHOTOS)	50
10	APPENDIX.....	51



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 7 of 97

4 General Information

4.1 Details of E.U.T.

Power supply:	Input 5V via AC/DC adapter AC/DC adapter Model No.: KA0601-0501000USU Input 100-240V~, 50/60Hz, 0.2A max; Output 5Vdc, 1000mA Infrared remote control: 3Vdc via 'CR2025' cell battery
Cable(s):	USB DC cable: about 2m, unshielded
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2 Classic (single mode)
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	PCB Antenna
Antenna Gain:	1.7 dBi

Remark: The information in this section is provided by the applicant or manufacturer, CCS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

4.2 Description of Support Units

Description	Manufacturer	Model No.	Serial No.
--	--	--	--
The EUT has been tested as an independent unit.			



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 8 of 97

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Conducted Emissions at AC Power Line (150kHz-30MHz)	$\pm 3.2\text{dB}$
20dB Bandwidth	$\pm 0.3\%$
99% Bandwidth	$\pm 0.3\%$
Carrier Frequencies Separation	$\pm 5.4 \times 10^{-8}$
Conducted Band Edges Measurement	$\pm 2.7\text{dB}$
Maximum Conducted Output Power	$\pm 0.8\text{dB}$
Conducted Spurious Emissions	$\pm 2.7\text{dB}$
Dwell Time	$\pm 0.3\%$
Hopping Channel Number	$\pm 0.3\%$
Radiated Emissions which fall in the restricted bands	$\pm 5.8\text{dB}$ (Below 1GHz); $\pm 4.8\text{dB}$ (Above 1GHz)
Radiated Emissions below 1GHz	$\pm 5.8\text{dB}$
Radiated Emissions Above 1GHz	$\pm 4.8\text{dB}$ (1-18GHz); $\pm 4.6\text{dB}$ (18-40GHz)
Frequency Stability	$\pm 5.4 \times 10^{-8}$

Remark:

The U_{lab} (lab Uncertainty) is less than $U_{\text{CISPR/ETSI}}$ (CISPR/ETSI Uncertainty), so the test results

- compliance is deemed to occur if no measured disturbance level exceeds the disturbance limit;
- non-compliance is deemed to occur if any measured disturbance level exceeds the disturbance limit.



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 9 of 97

4.4 Test Location

All tests were performed at:

Compliance Certification Services (Kunshan) Inc. Shenzhen branch.

Fuyong lab. Xinlong TechnoPark, Fengtang Road, Fuyong Subdistrict, Bao'an, Shenzhen, China

Tel: +86 755 8866 3988 Fax: +86 755 2671 0594

No tests were sub-contracted.

4.5 Test Facility

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

- **A2LA (Certificate No. 6606.01)**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch is accredited by the American Association for Laboratory Accreditation (A2LA). Certificate No. 6606.01.

- **FCC –Designation Number: CN1322**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized as an accredited testing laboratory.

Designation Number: CN1322. Test Firm Registration Number: 718073

- **Innovation, Science and Economic Development Canada**

Compliance Certification Services (Kunshan) Inc. Shenzhen branch has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0129.

IC#: 28189.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 10 of 97

5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	CRT	N/A	SEM001-14	2021/7/13	2024/7/12
EMI Test Receiver	Rohde & Schwarz	ESCI	SEM004-01	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ENV216	SEM007-16	2022/7/12	2023/7/11
Two-Line V-Network	Rohde & Schwarz	ESH3-Z5	SEM007-22	2023/1/9	2024/1/8
Coaxial Cable	CCS	N/A	SEM033-02	2023/5/15	2024/5/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	Erika Fiedler	U2021XA	SEM009-15	2022/7/12	2023/7/11
Power Sensor	Erika Fiedler	U2021XA	SEM009-16	2022/7/12	2023/7/11
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 11 of 97

Hopping Channel Number

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Dwell Time

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Band Edges Measurement

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A

Conducted Spurious Emissions

Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-25	2023/3/21	2024/3/20
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM037-01	2023/5/15	2024/5/14
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 12 of 97

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-33	2021/9/25	2024/9/24
Loop Antenna	ETS-LINDGREN	6502	SEM003-36	2021/9/26	2024/9/25
MXE EMI receiver	Agilent	N9038A	SEM004-05	2022/7/12	2023/7/11
Pre-amplifier	HP	8447D	SEM005-02	2022/7/12	2023/7/11
Coaxial Cable	CCS	N/A	SEM035-01	2023/5/15	2024/5/14
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Anechoic Chamber	CRT	N/A	SEM001-13	2021/7/13	2024/7/12
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9120D	SEM003-32	2021/9/26	2024/9/25
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-23	2023/3/20	2024/3/19
Coaxial Cable	CCS	N/A	SEM035-02	2023/5/15	2024/5/14
Pre-amplifier	TST PASS	LNA04080G30	SEM005-27	2023/3/30	2024/3/29
Pre-amplifier	TST PASS	LNA10180G45	SEM005-28	2023/3/31	2024/3/30
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 13 of 97

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-22	2022/7/12	2023/7/11
Humidity/ Temperature Indicator	Mingle	TH607	SEM002-23	2022/7/12	2023/7/11
Barometer	DUMAI	DYM3	SEM002-24	2022/7/12	2023/7/11



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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:

An intentional radiator shall be designed to ensure that no antenna other than that furnished by the responsible party shall be used with the device. The use of a permanently attached antenna or of an antenna that uses a unique coupling to the intentional radiator, the manufacturer may design the unit so that a broken antenna can be replaced by the user, but the use of a standard antenna jack or electrical connector is prohibited.

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is 1.7 dBi.

Antenna location: Refer to internal photo.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 15 of 97

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)

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: $2^9 - 1 = 511$ bits

> Longest sequence of zeros: 8 (non-inverted signal)

Linear Feedback Shift Register for Generation of the PRBS sequence

An example of Pseudorandom Frequency Hopping Sequence as follow:

Each frequency used equally on the average by each transmitter.

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



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 16 of 97

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

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

Test Requirement 47 CFR Part 15, Subpart C 15.207

Test Method: ANSI C63.10 (2013) Section 6.2

Limit:

Frequency of emission(MHz)	Conducted limit(dBμV)	
	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 Environment:

Temperature: 22.3 °C

Humidity: 50.3 % RH

Atmospheric Pressure: 1020 mbar

7.1.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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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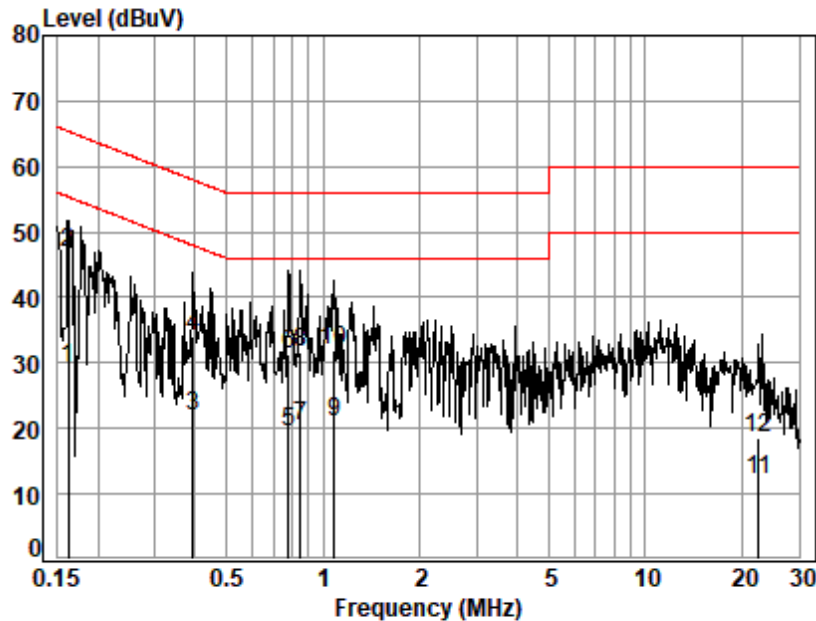
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 19 of 97

Test Mode: 00; Line: Live line



Site : Shielding Room
Condition: Line
Job No. : 00064AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1	0.1615	0.02	9.81	19.50	29.33	55.38	Average
2	0.1615	0.02	9.81	37.10	46.93	65.38	QP
3	0.3934	0.03	9.81	12.20	22.04	47.99	Average
4	0.3934	0.03	9.81	24.20	34.04	57.99	QP
5	0.7793	0.06	9.86	9.50	19.42	46.00	Average
6	0.7793	0.06	9.86	21.50	31.42	56.00	QP
7	0.8483	0.04	9.85	10.60	20.49	46.00	Average
8	0.8483	0.04	9.85	21.80	31.69	56.00	QP
9	1.0824	0.03	9.85	11.00	20.88	46.00	Average
10	1.0824	0.03	9.85	22.10	31.98	56.00	QP
11	22.4163	0.07	10.03	2.10	12.20	50.00	Average
12	22.4163	0.07	10.03	8.60	18.70	60.00	QP



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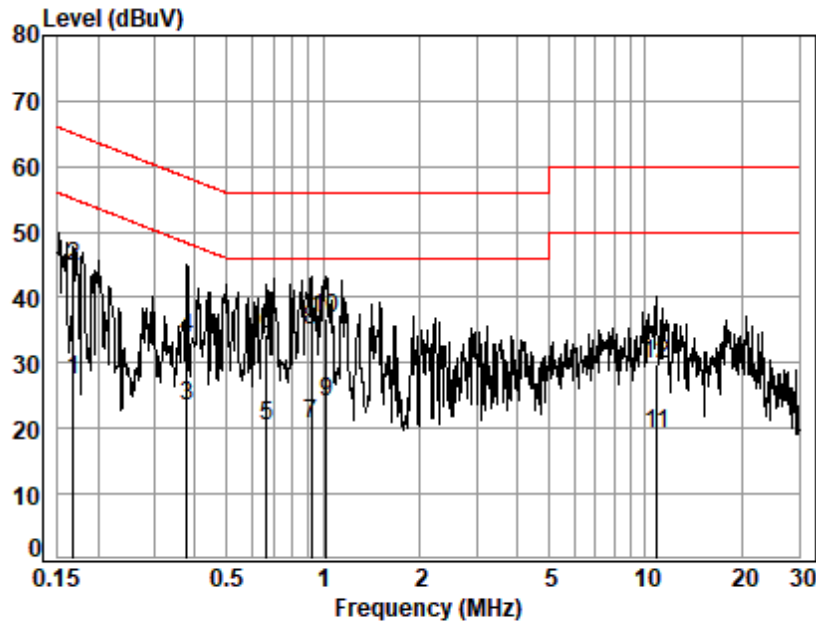
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 20 of 97

Test Mode: 00; Line: Neutral Line



Site : Shielding Room
Condition: Neutral
Job No. : 00064AT
Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dBuV	dB	
1	0.1677	0.02	9.86	17.40	27.28	55.08	-27.80	Average
2	0.1677	0.02	9.86	34.70	44.58	65.08	-20.50	QP
3	0.3771	0.03	9.81	13.60	23.44	48.34	-24.90	Average
4	0.3771	0.03	9.81	24.00	33.84	58.34	-24.50	QP
5	0.6648	0.02	9.85	10.50	20.37	46.00	-25.63	Average
6	0.6648	0.02	9.85	24.60	34.47	56.00	-21.53	QP
7	0.9184	0.01	9.83	10.90	20.74	46.00	-25.26	Average
8	0.9184	0.01	9.83	25.20	35.04	56.00	-20.96	QP
9	1.0211	0.03	9.82	14.20	24.05	46.00	-21.95	Average
10	1.0211	0.03	9.82	27.10	36.95	56.00	-19.05	QP
11	10.8474	0.03	9.84	9.40	19.27	50.00	-30.73	Average
12	10.8474	0.03	9.84	19.80	29.67	60.00	-30.33	QP



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 21 of 97

7.2 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(1)

Test Method: ANSI C63.10 (2013) Section 7.8.5

Limit:

Frequency range(MHz)	Output power of the intentional radiator(watt)
902-928	1 for ≥ 50 hopping channels
	0.25 for $25 \leq$ hopping channels < 50
	1 for digital modulation
2400-2483.5	1 for ≥ 75 non-overlapping hopping channels
	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 Environment:

Temperature: 22.3 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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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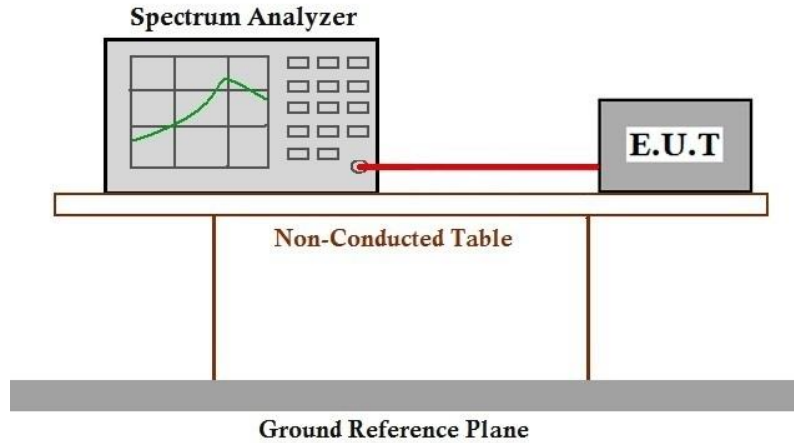
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 22 of 97

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

Note: Since the verify power the same operating range bandwidth and smaller power can be covered by the higher power.

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 23 of 97

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

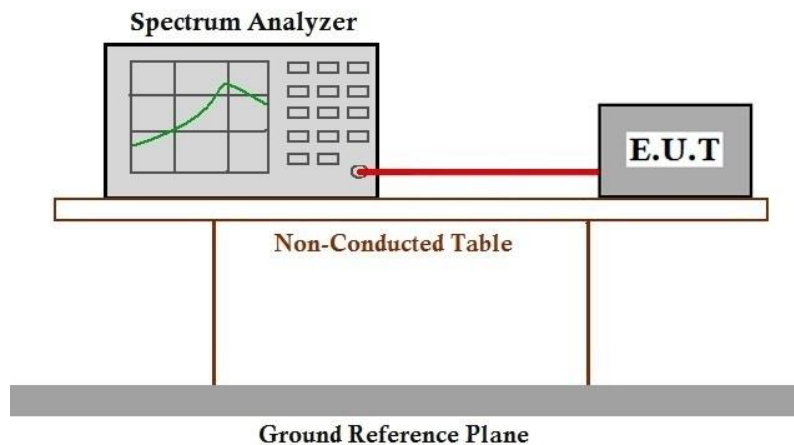
Operating Environment:

Temperature: 22.3 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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



7.3.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 24 of 97

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:

Frequency hopping systems shall have hopping channel carrier frequencies separated by a minimum of 25 kHz or the 20 dB bandwidth of the hopping channel, whichever is greater. Alternatively, frequency hopping systems operating in the 2400-2483.5 MHz band may have hopping channel carrier frequencies that are separated by 25 kHz or two-thirds of the 20 dB bandwidth of the hopping channel, whichever is greater, provided the systems operate with an output power no greater than 125 mW.

7.4.1 E.U.T. Operation

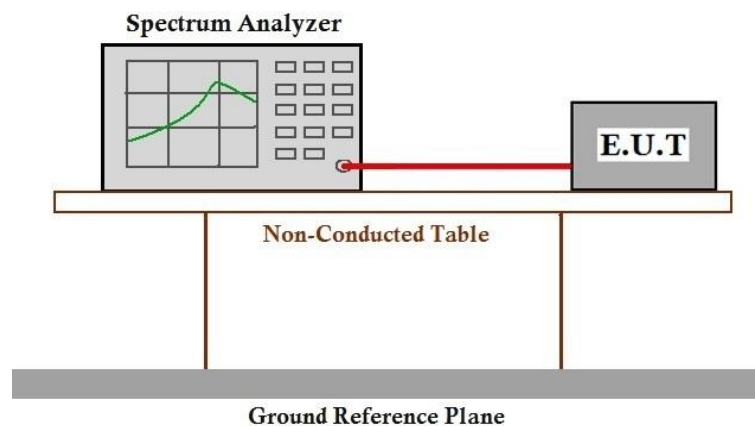
Operating Environment:

Temperature: 22.3 °C Humidity: 52.4 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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.

7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 25 of 97

7.5 Hopping Channel Number

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.3

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 Environment:

Temperature: 22.5 °C

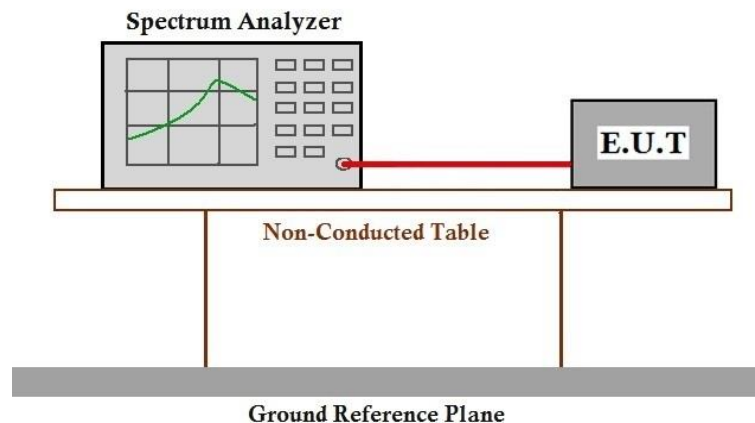
Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 26 of 97

7.6 Dwell Time

Test Requirement 47 CFR Part 15, Subpart C 15.247a(1)(iii)

Test Method: ANSI C63.10 (2013) Section 7.8.4

Limit:

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

7.6.1 E.U.T. Operation

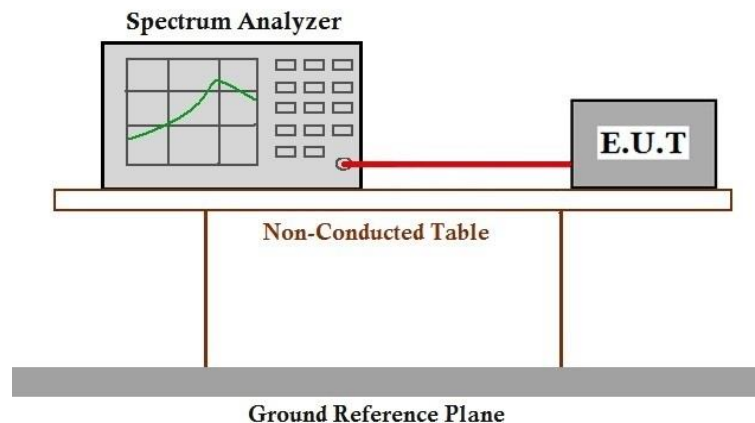
Operating Environment:

Temperature: 22.4 °C Humidity: 52.3 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	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



7.6.4 Measurement Procedure and Data

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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 27 of 97

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:

Temperature: 22.3 °C

Humidity: 52.4 % RH

Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

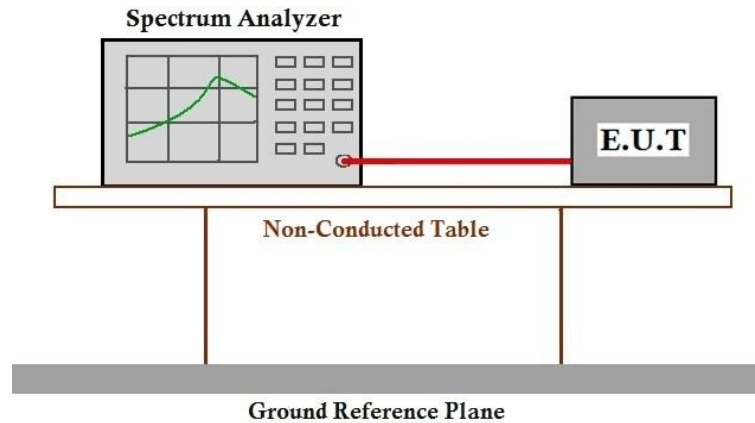
Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_Hop mode_Keep the 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.



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7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 29 of 97

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 Environment:

Temperature: 22.3 °C

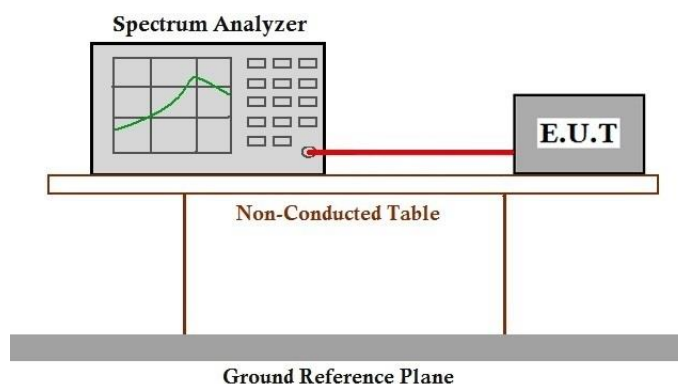
Humidity: 52.5 % RH

Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 30 of 97

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

Measurement Distance: 3m

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:

Temperature: 22.3 °C

Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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.

Average value:

Calculate Formula:	Average value=Peak value + PDCF
	PDCF=20 log(Duty cycle)
	Duty cycle= T on time / T period
Test data:	Ton time =2.9ms
	T period =100ms
	Duty cycle=2.9%
	PDCF value= -30.75dB



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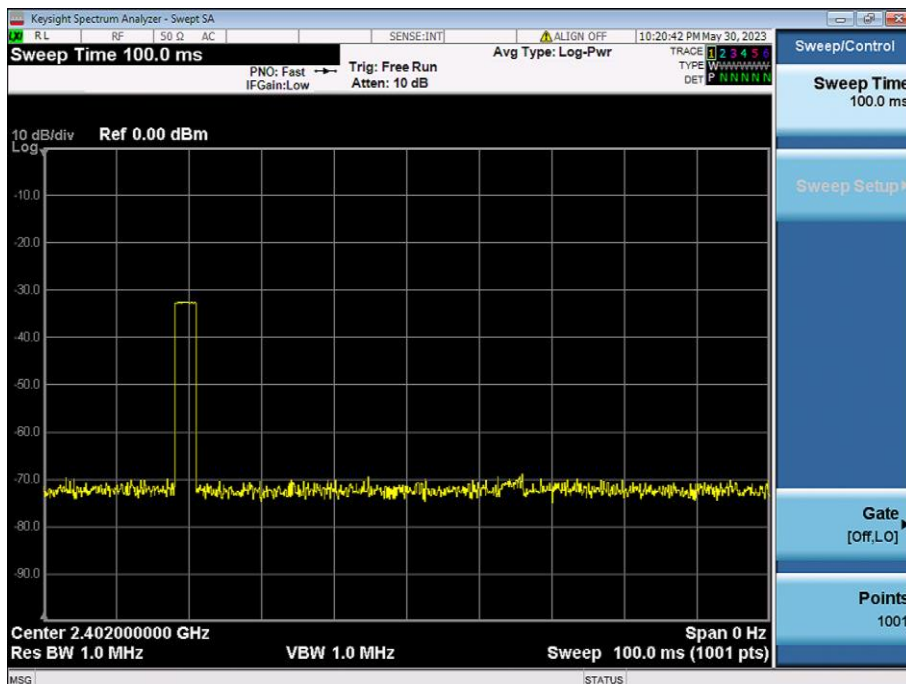
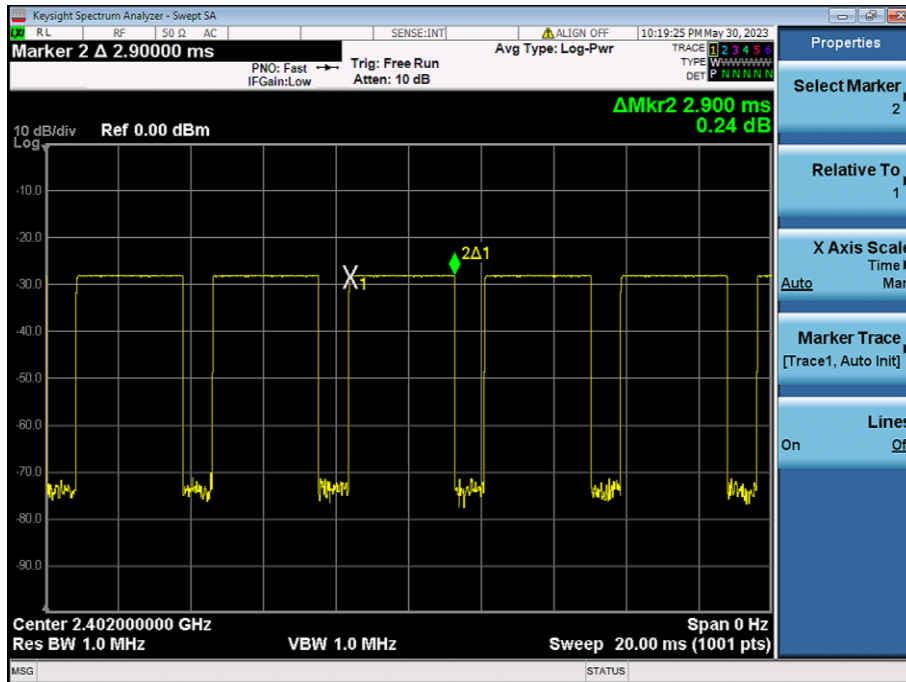
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 31 of 97



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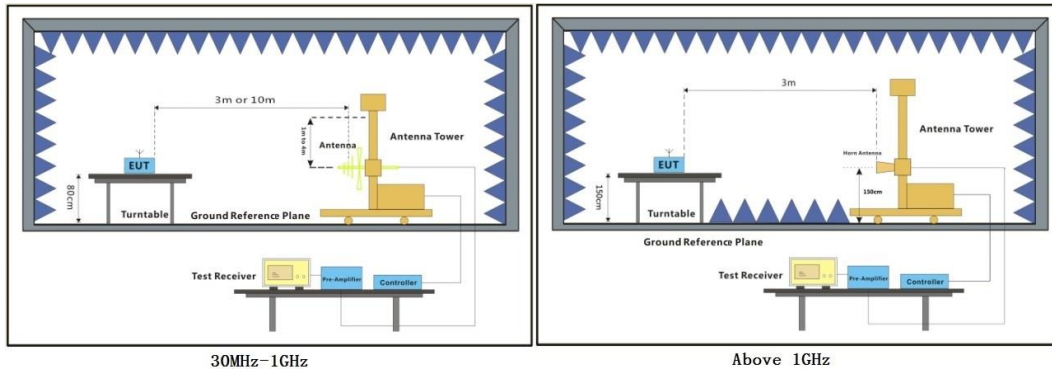
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 32 of 97

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

- 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.
- 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.
- 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.
- 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.
- 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.
- The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- 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.
- Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.
- 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.



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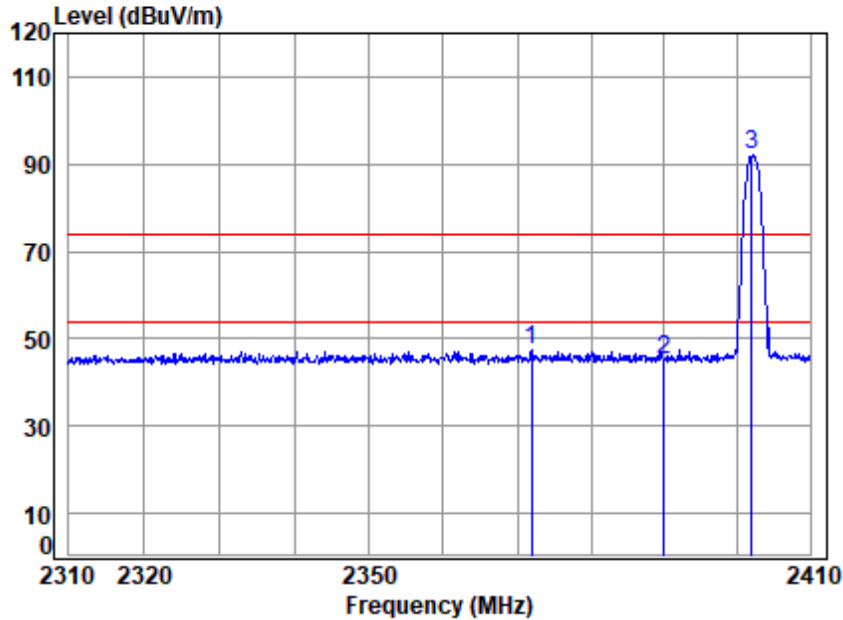
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 33 of 97

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2371.902	5.19	27.14	32.50	47.73	47.56	74.00	-26.44	peak
2	2390.000	5.21	27.18	32.50	45.18	45.07	74.00	-28.93	peak
3	2402.000	5.21	27.20	32.50	92.04	91.95	74.00	17.95	peak



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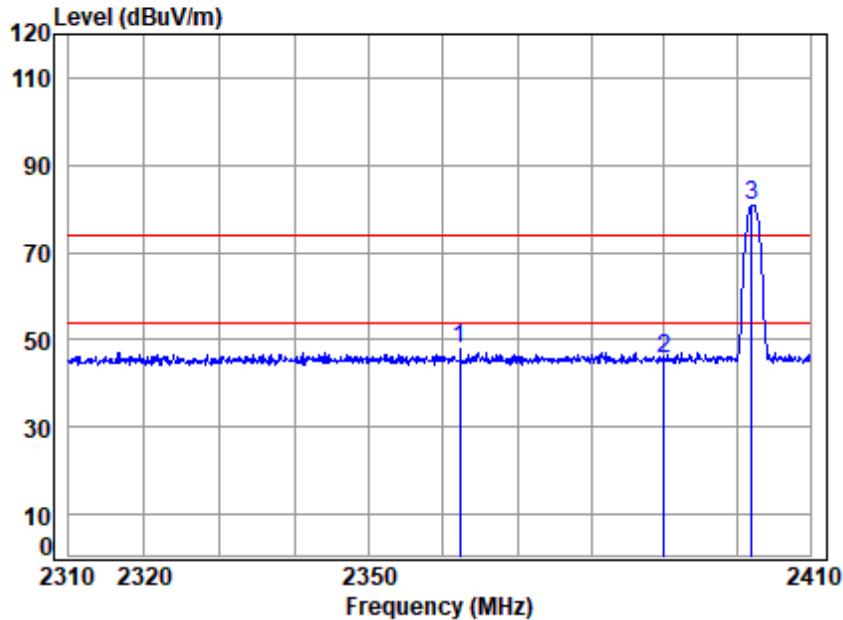
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 34 of 97

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 2402 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2362.272	5.18	27.12	32.50	47.89	47.69	74.00	-26.31	peak
2	2390.000	5.21	27.18	32.50	45.60	45.49	74.00	-28.51	peak
3	2402.000	5.21	27.20	32.50	80.77	80.68	74.00	6.68	peak



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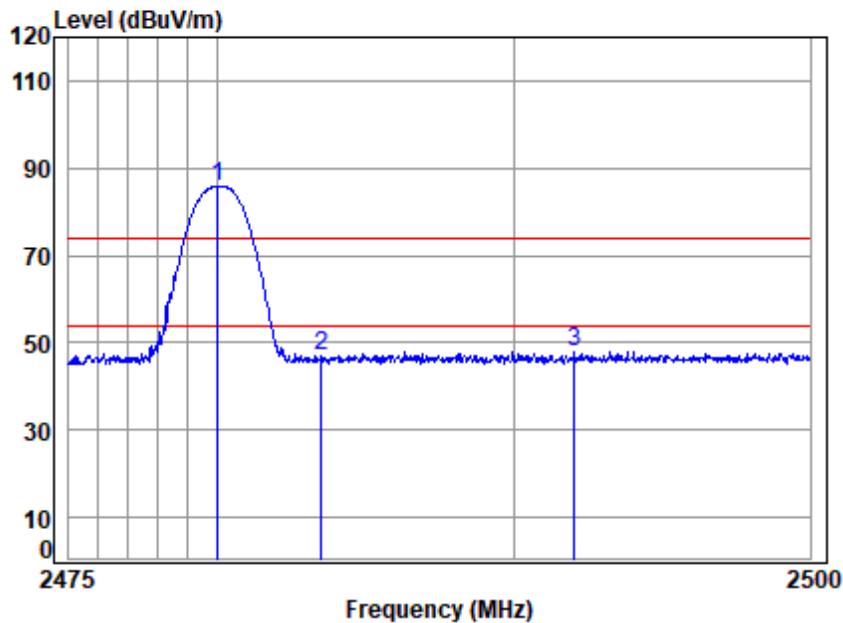
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 35 of 97

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 2480 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	5.27	27.32	32.50	85.80	85.89	74.00	11.89	peak
2	2483.500	5.28	27.33	32.50	47.09	47.20	74.00	-26.80	peak
3	2492.023	5.28	27.37	32.50	47.85	48.00	74.00	-26.00	peak



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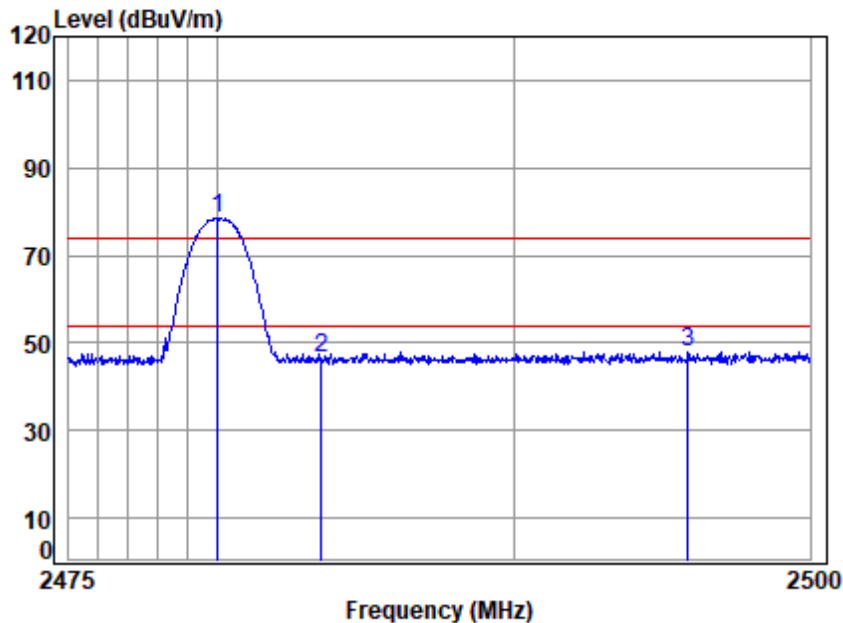
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 36 of 97

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 2480 Band edge
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2480.000	5.27	27.32	32.50	78.26	78.35	74.00	4.35	peak
2	2483.500	5.28	27.33	32.50	46.27	46.38	74.00	-27.62	peak
3	2495.858	5.29	27.38	32.50	47.87	48.04	74.00	-25.96	peak

Remark:

- 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
- 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 above measurement data were shown in the report.



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 37 of 97

7.10 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.4,6.5

Measurement Distance: 3m

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
960-1000	500	3

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

Humidity: 52.2 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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.

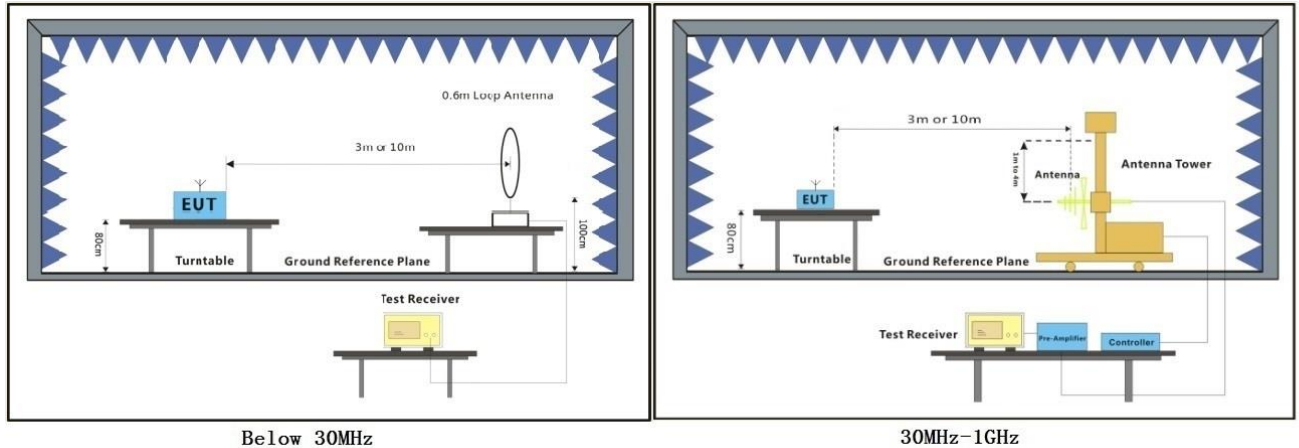


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7.10.3 Test Setup Diagram



Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 39 of 97

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. 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.
- c. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- d. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- e. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- f. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using quasi-peak method as specified and then reported in a data sheet.
- g. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- 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.

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 9kHz to 30MHz, the disturbance 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.
3. The disturbance below 1GHz was very low and the harmonics were the highest point could be found when testing, so only the above harmonics had been displayed.



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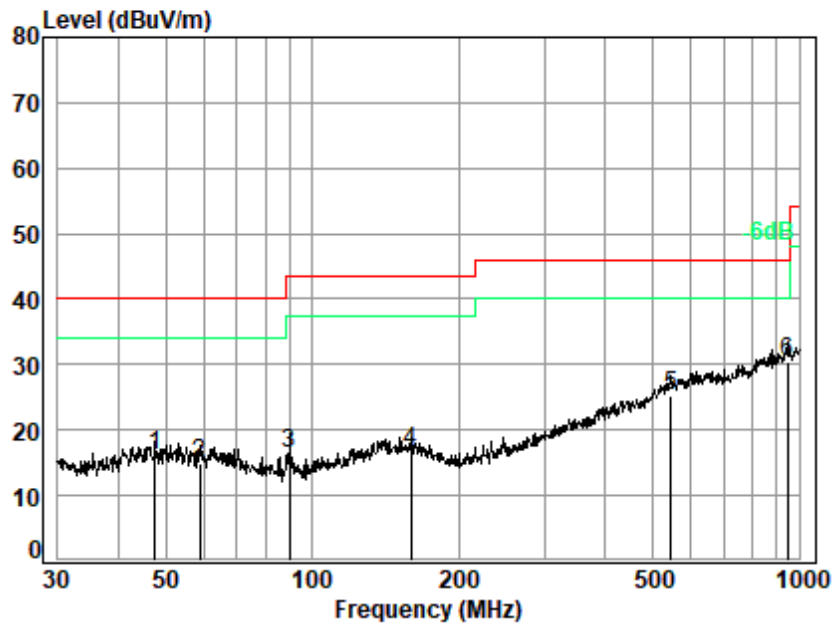
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 40 of 97

Test Mode: 00; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	47.492	0.22	17.27	25.86	24.50	16.13	40.00	-23.87	QP
2	58.613	0.26	16.88	25.85	23.50	14.79	40.00	-25.21	QP
3	89.905	0.67	13.60	25.81	28.05	16.51	43.50	-26.99	QP
4	159.784	0.85	17.21	25.50	24.20	16.76	43.50	-26.74	QP
5	545.183	1.82	23.72	25.27	24.89	25.16	46.00	-20.84	QP
6	945.440	2.20	29.36	26.33	25.12	30.35	46.00	-15.65	QP



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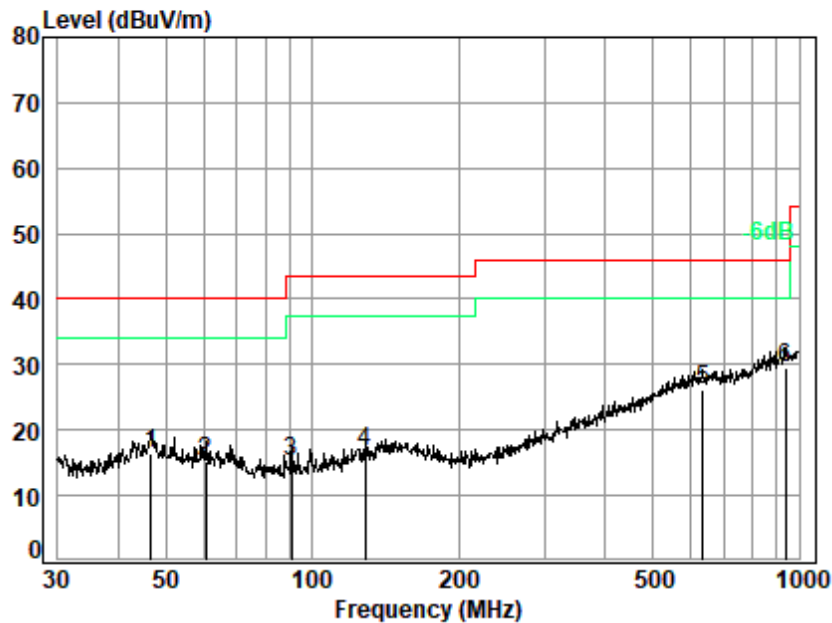
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 41 of 97

Test Mode: 00; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 00

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	46.666	0.22	17.27	25.87	24.75	16.37	40.00	-23.63	QP
2	60.492	0.27	16.70	25.84	24.10	15.23	40.00	-24.77	QP
3	90.537	0.68	13.67	25.81	26.72	15.26	43.50	-28.24	QP
4	128.563	0.98	16.55	25.64	24.77	16.66	43.50	-26.84	QP
5	633.907	2.15	24.94	25.57	24.63	26.15	46.00	-19.85	QP
6	938.833	2.22	29.34	26.34	24.37	29.59	46.00	-16.41	QP



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 42 of 97

7.11 Radiated Spurious Emissions Above 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209

Test Method: ANSI C63.10 (2013) Section 6.6

Measurement Distance: 3m

Limit:

Frequency(MHz)	Field strength(microvolts/meter)	Measurement distance(meters)
Above 1000	500	3

7.11.1 E.U.T. Operation

Operating Environment:

Temperature: 22.3 °C

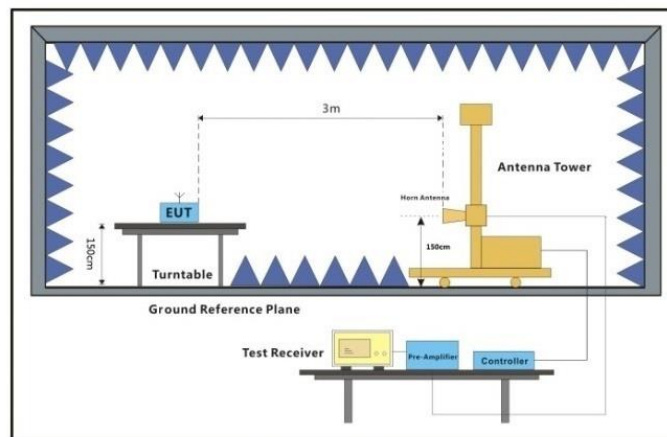
Humidity: 52.3 % RH

Atmospheric Pressure: 1020 mbar

7.11.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	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.

7.11.3 Test Setup Diagram



Above 1GHz



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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 43 of 97

7.11.4 Measurement Procedure and Data

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

Remark:

1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz 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.
3. As shown in this section, for frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.



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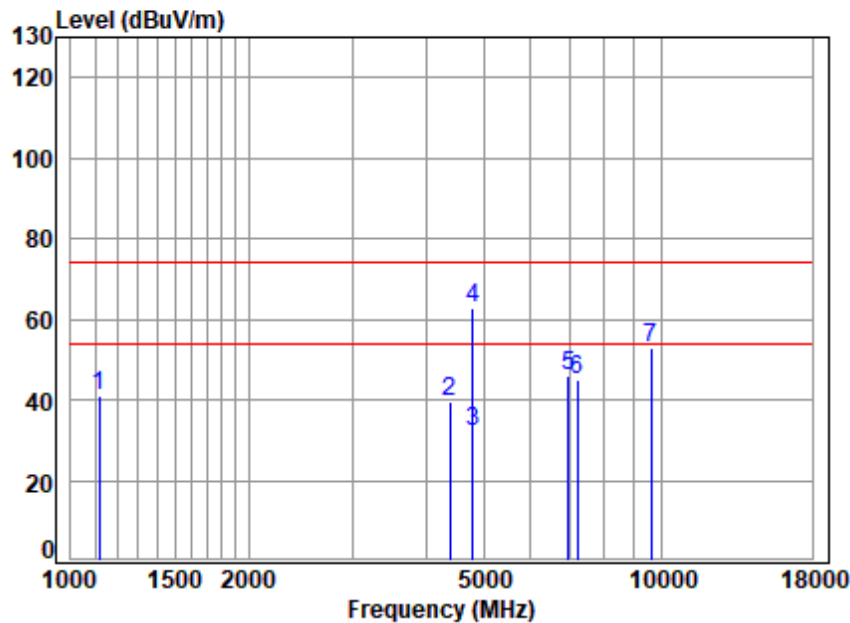
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 44 of 97

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 2402 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1119.323	3.13	24.20	52.60	66.38	41.11	74.00	-32.89	peak
2	4379.699	7.61	29.86	52.92	55.10	39.65	74.00	-34.35	peak
3	4804.000	8.32	30.81	53.05	46.17	32.25	54.00	-21.75	Average
4	4804.000	8.32	30.81	53.05	76.92	63.00	74.00	-11.00	peak
5	6954.852	8.25	35.71	53.47	55.33	45.82	74.00	-28.18	peak
6	7206.000	8.33	35.81	53.52	54.44	45.06	74.00	-28.94	peak
7	9608.000	11.71	37.58	53.58	57.37	53.08	74.00	-20.92	peak



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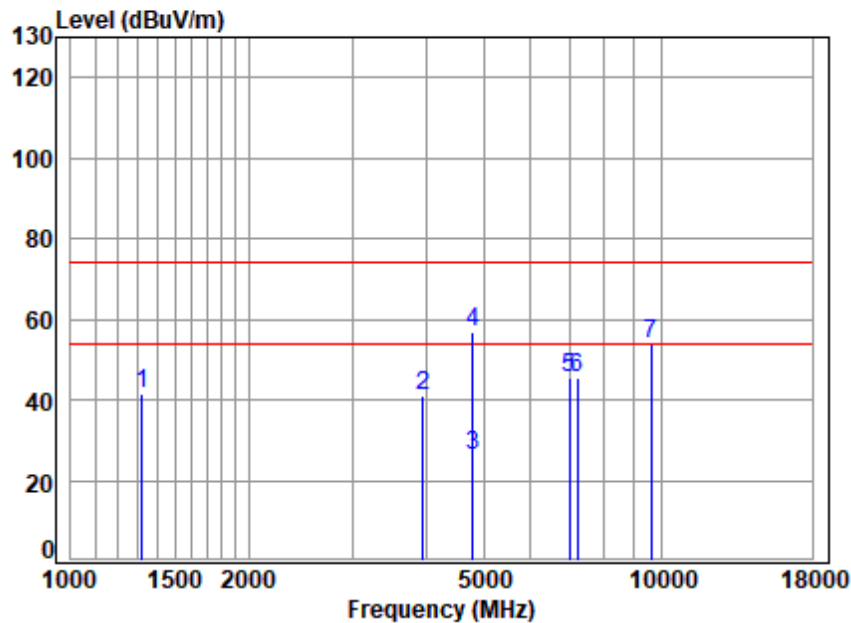
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 45 of 97

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 2402 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1319.794	3.49	24.26	52.74	66.50	41.51	74.00	-32.49	peak
2	3946.885	7.78	29.49	52.81	56.62	41.08	74.00	-32.92	peak
3	4804.000	8.32	30.81	53.05	40.18	26.26	54.00	-27.74	Average
4	4804.000	8.32	30.81	53.05	70.93	57.01	74.00	-16.99	peak
5	6974.982	8.27	35.75	53.48	55.01	45.55	74.00	-28.45	peak
6	7206.000	8.33	35.81	53.52	54.64	45.26	74.00	-28.74	peak
7	9608.000	11.71	37.58	53.58	58.29	54.00	74.00	-20.00	peak



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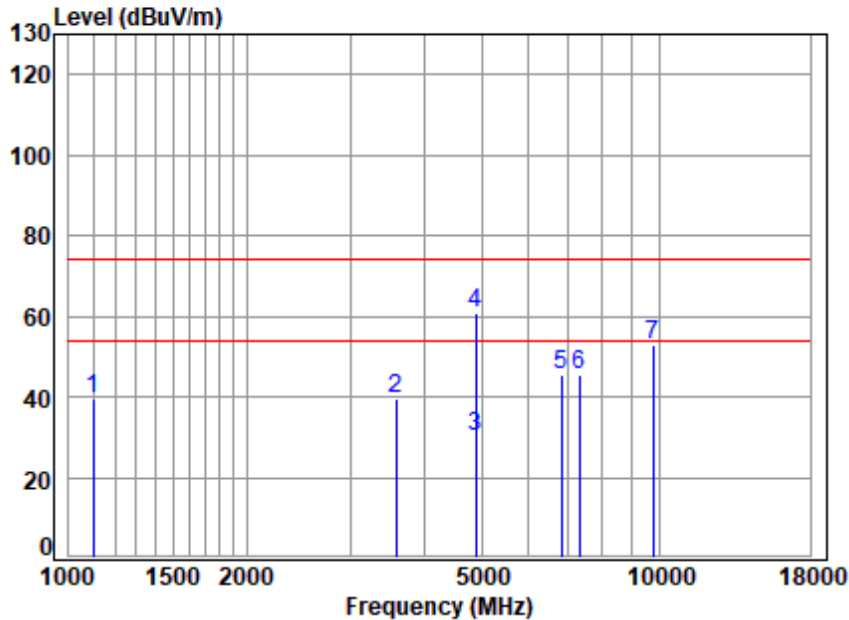
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 46 of 97

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 2441 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1100.079	3.10	24.20	52.58	64.93	39.65	74.00	-34.35	peak
2	3587.818	7.28	28.95	52.91	56.01	39.33	74.00	-34.67	peak
3	4882.000	8.51	30.96	53.07	43.81	30.21	54.00	-23.79	Average
4	4882.000	8.51	30.96	53.07	74.56	60.96	74.00	-13.04	peak
5	6835.278	8.13	35.44	53.39	55.48	45.66	74.00	-28.34	peak
6	7323.000	8.35	36.15	53.53	54.41	45.38	74.00	-28.62	peak
7	9764.000	11.74	37.63	53.43	56.93	52.87	74.00	-21.13	peak



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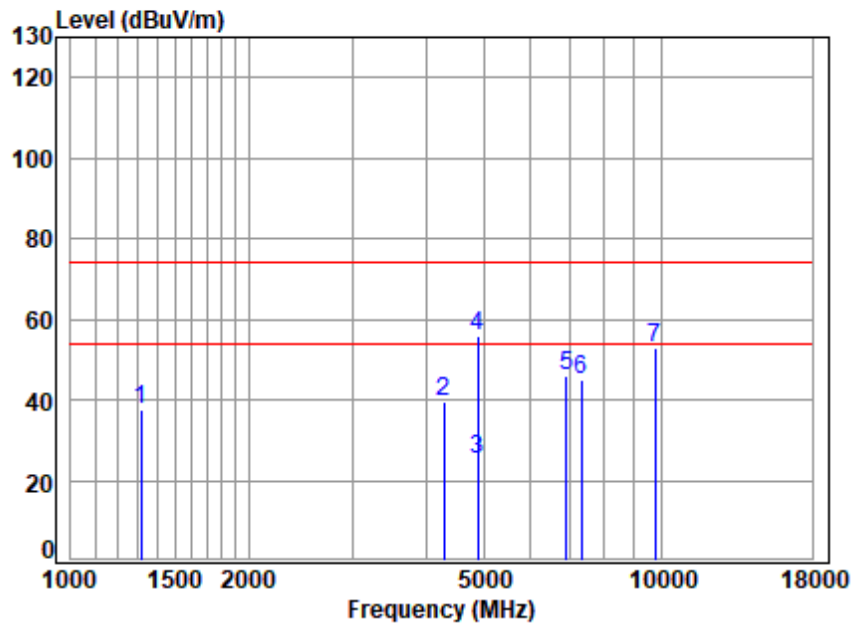
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 47 of 97

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:middle



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 2441 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	3.49	24.27	52.74	62.54	37.56	74.00	-36.44	peak
2	4279.589	7.67	29.74	52.89	55.02	39.54	74.00	-34.46	peak
3	4882.000	8.51	30.96	53.07	38.60	25.00	54.00	-29.00	Average
4	4882.000	8.51	30.96	53.07	69.35	55.75	74.00	-18.25	peak
5	6894.806	8.19	35.50	53.43	55.68	45.94	74.00	-28.06	peak
6	7323.000	8.35	36.15	53.53	53.85	44.82	74.00	-29.18	peak
7	9764.000	11.74	37.63	53.43	57.08	53.02	74.00	-20.98	peak



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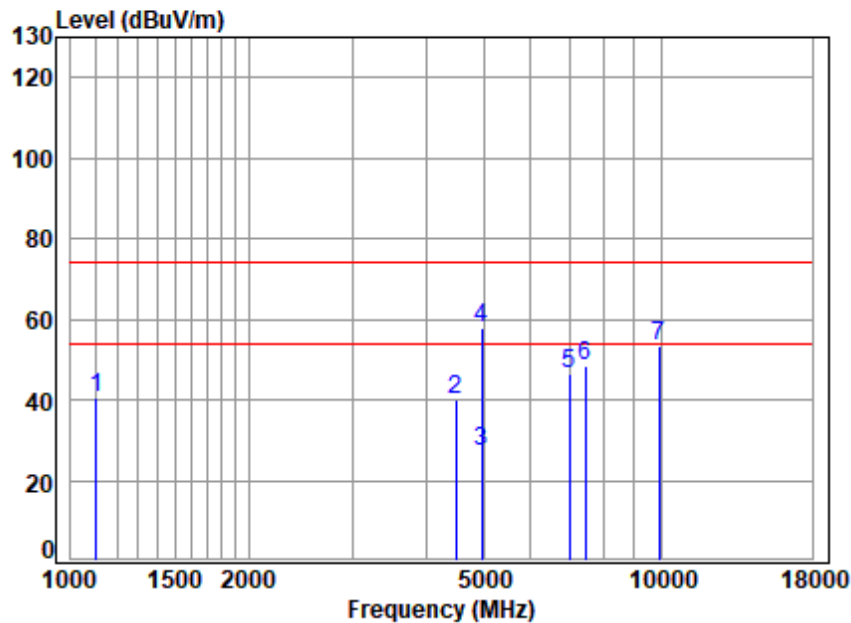
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 48 of 97

Test Mode: 00; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m HORIZONTAL
Job No : 00064AT
Mode : 2480 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1103.264	3.10	24.20	52.59	65.89	40.60	74.00	-33.40	peak
2	4495.125	7.54	30.19	52.96	55.26	40.03	74.00	-33.97	peak
3	4960.000	8.69	31.24	53.09	40.18	27.02	54.00	-26.98	Average
4	4960.000	8.69	31.24	53.09	70.93	57.77	74.00	-16.23	peak
5	6974.982	8.27	35.75	53.48	55.77	46.31	74.00	-27.69	peak
6	7440.000	8.37	36.38	53.55	57.43	48.63	74.00	-25.37	peak
7	9920.000	11.77	38.24	53.28	56.44	53.17	74.00	-20.83	peak



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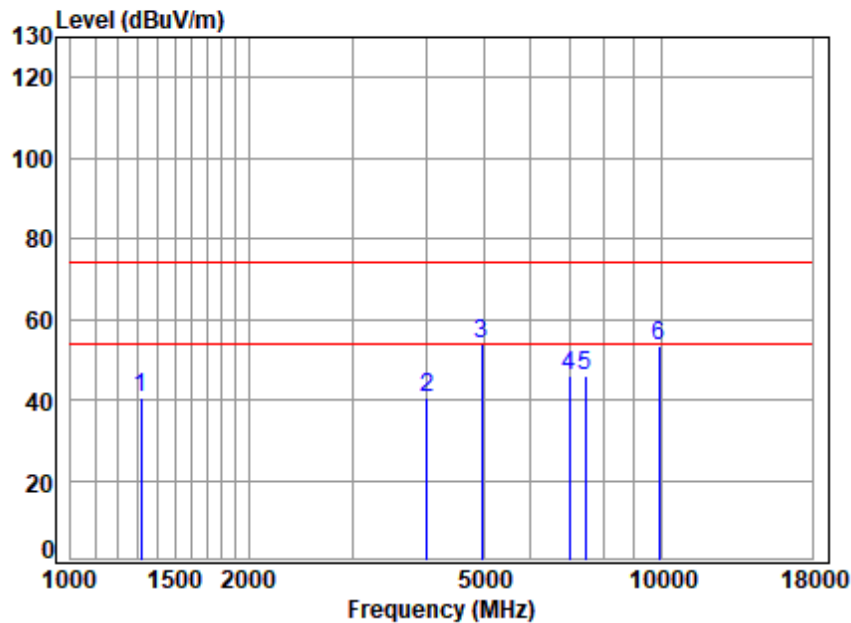
Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 49 of 97

Test Mode: 00; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
Condition: 3m VERTICAL
Job No : 00064AT
Mode : 2480 TX RSE
Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1315.985	3.49	24.27	52.74	65.61	40.63	74.00	-33.37	peak
2	4004.339	7.85	29.50	52.80	56.14	40.69	74.00	-33.31	peak
3	4960.000	8.69	31.24	53.09	66.82	53.66	74.00	-20.34	peak
4	6995.172	8.29	35.79	53.50	55.19	45.77	74.00	-28.23	peak
5	7440.000	8.37	36.38	53.55	54.52	45.72	74.00	-28.28	peak
6	9920.000	11.77	38.24	53.28	56.66	53.39	74.00	-20.61	peak



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 50 of 97

8 Test Setup Photo

Refer to Appendix - Test Setup Photo for FYCR2304000064AT

9 EUT Constructional Details (EUT Photos)

Refer to Appendix - external and internal photos for FYCR2304000064AT



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10 Appendix

1. Bandwidth

1.1 OBW

1.1.1 Test Result

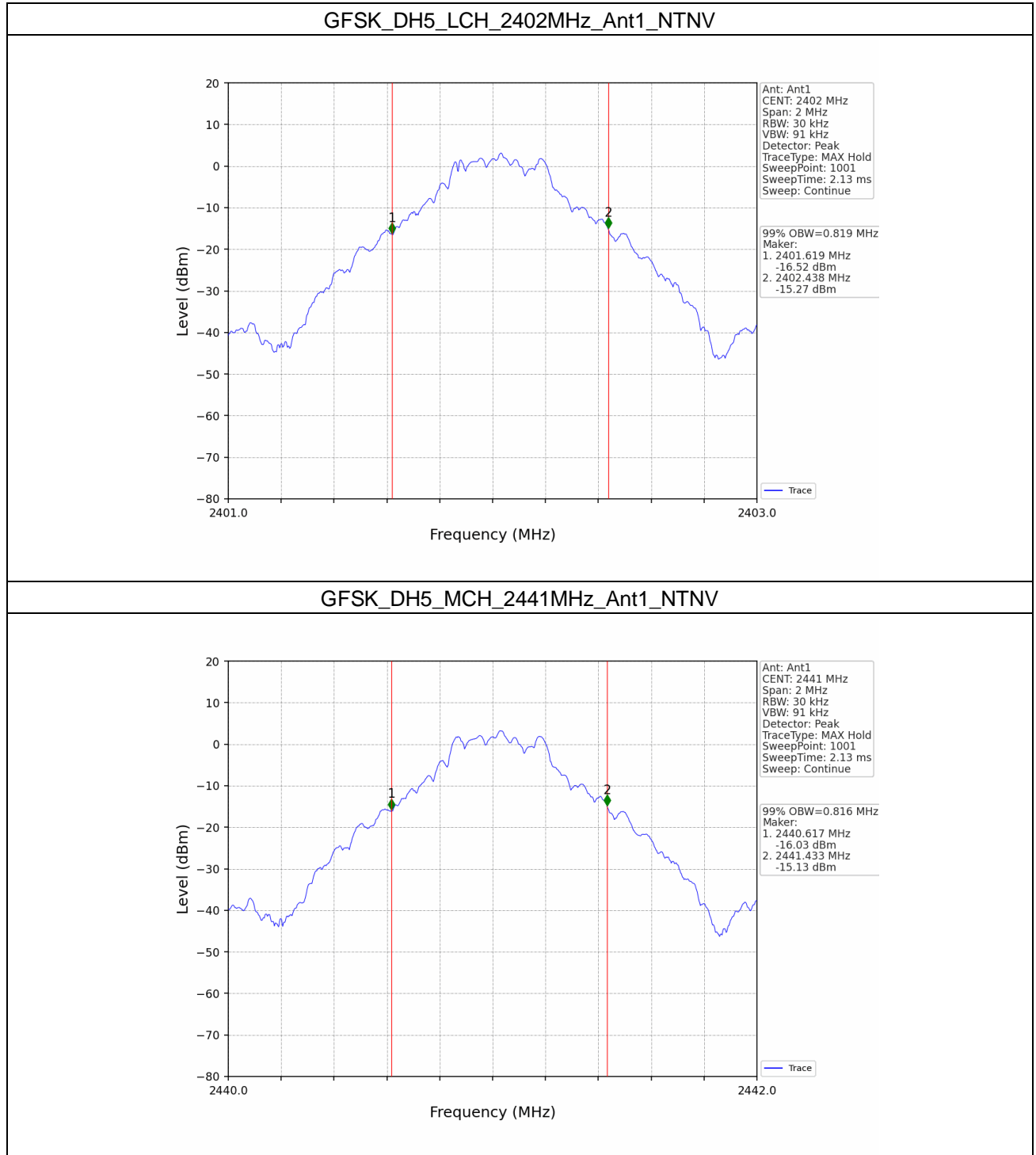
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.819	Pass
		2441	DH5	1	0.816	Pass
		2480	DH5	1	0.821	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.168	Pass
		2441	2DH5	1	1.166	Pass
		2480	2DH5	1	1.166	Pass
8DPSK	SISO	2402	3DH5	1	1.190	Pass
		2441	3DH5	1	1.195	Pass
		2480	3DH5	1	1.190	Pass



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1.1.2 Test Graph



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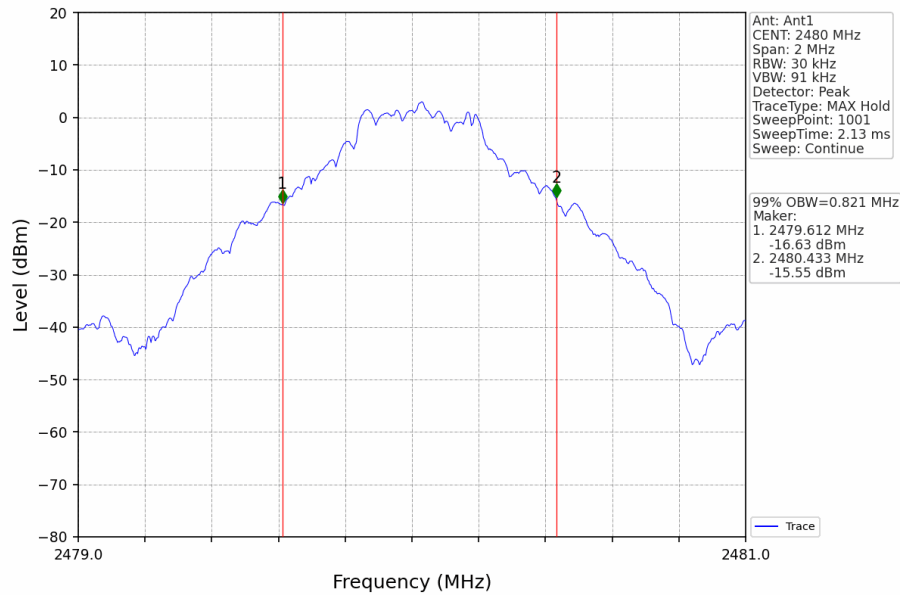
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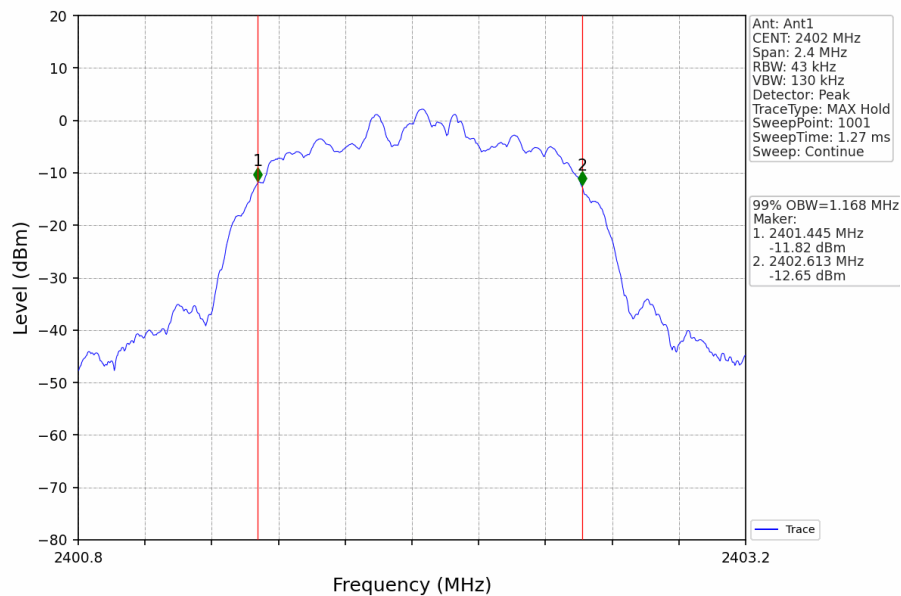
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Page: 53 of 97

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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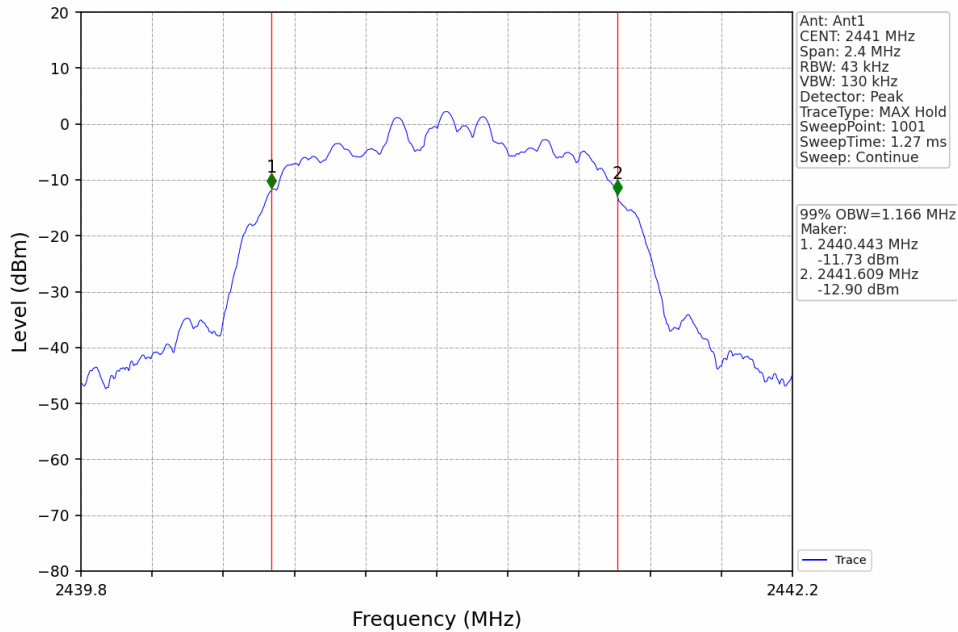
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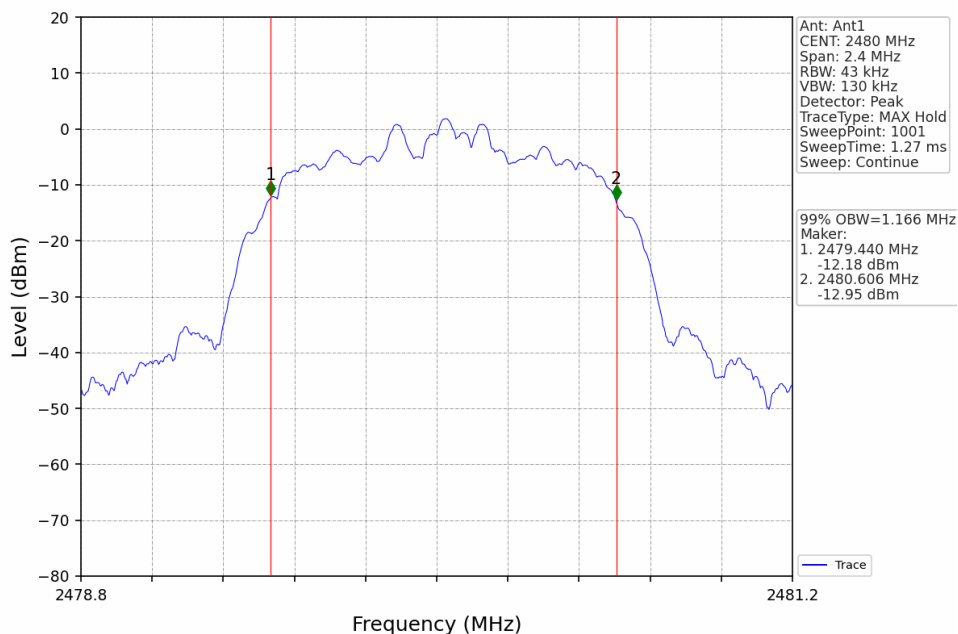
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Page: 54 of 97

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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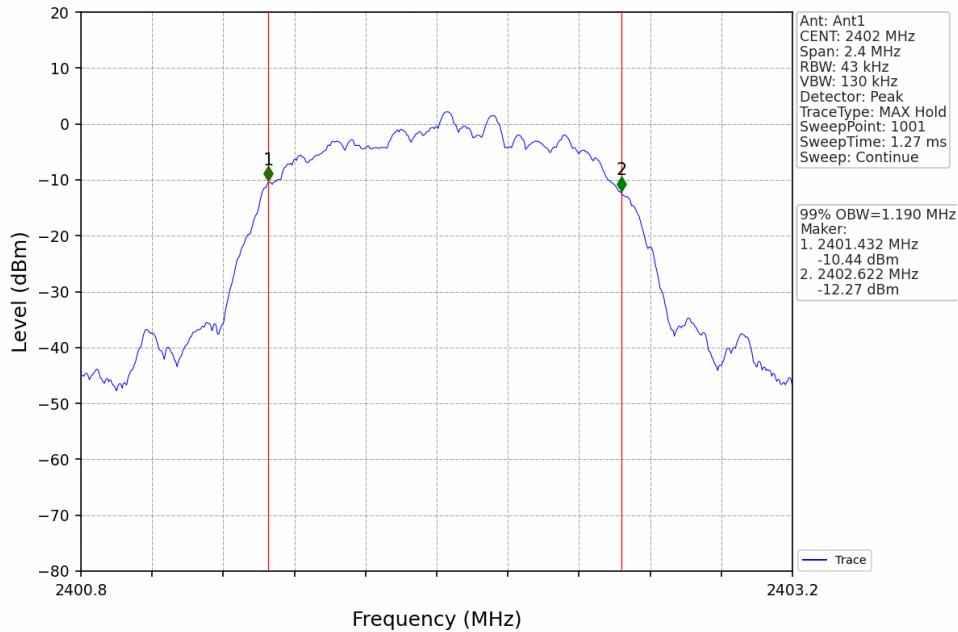
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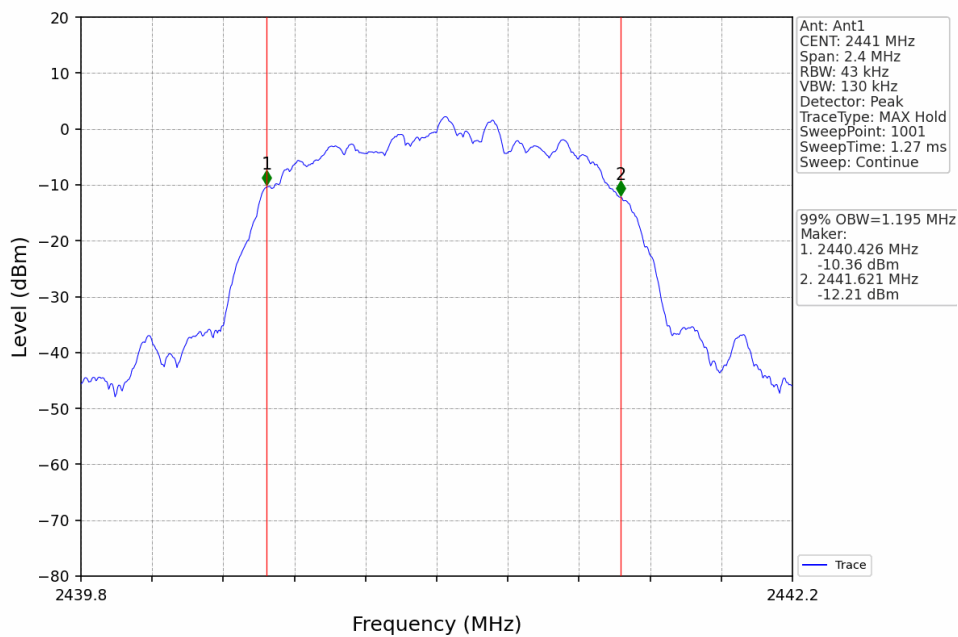
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Page: 55 of 97

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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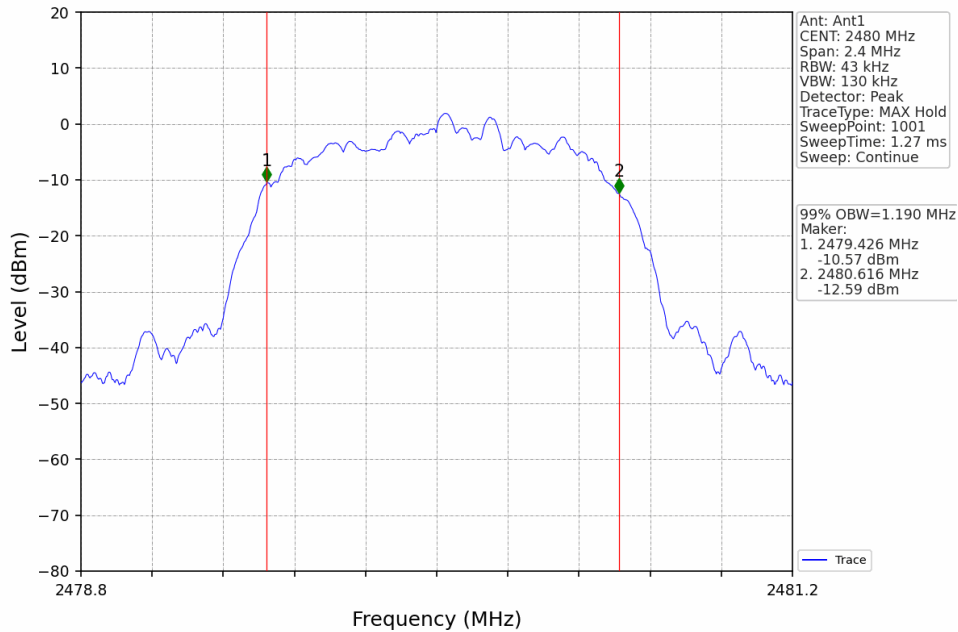
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 56 of 97

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 57 of 97

1.2 20dB BW

1.2.1 Test Result

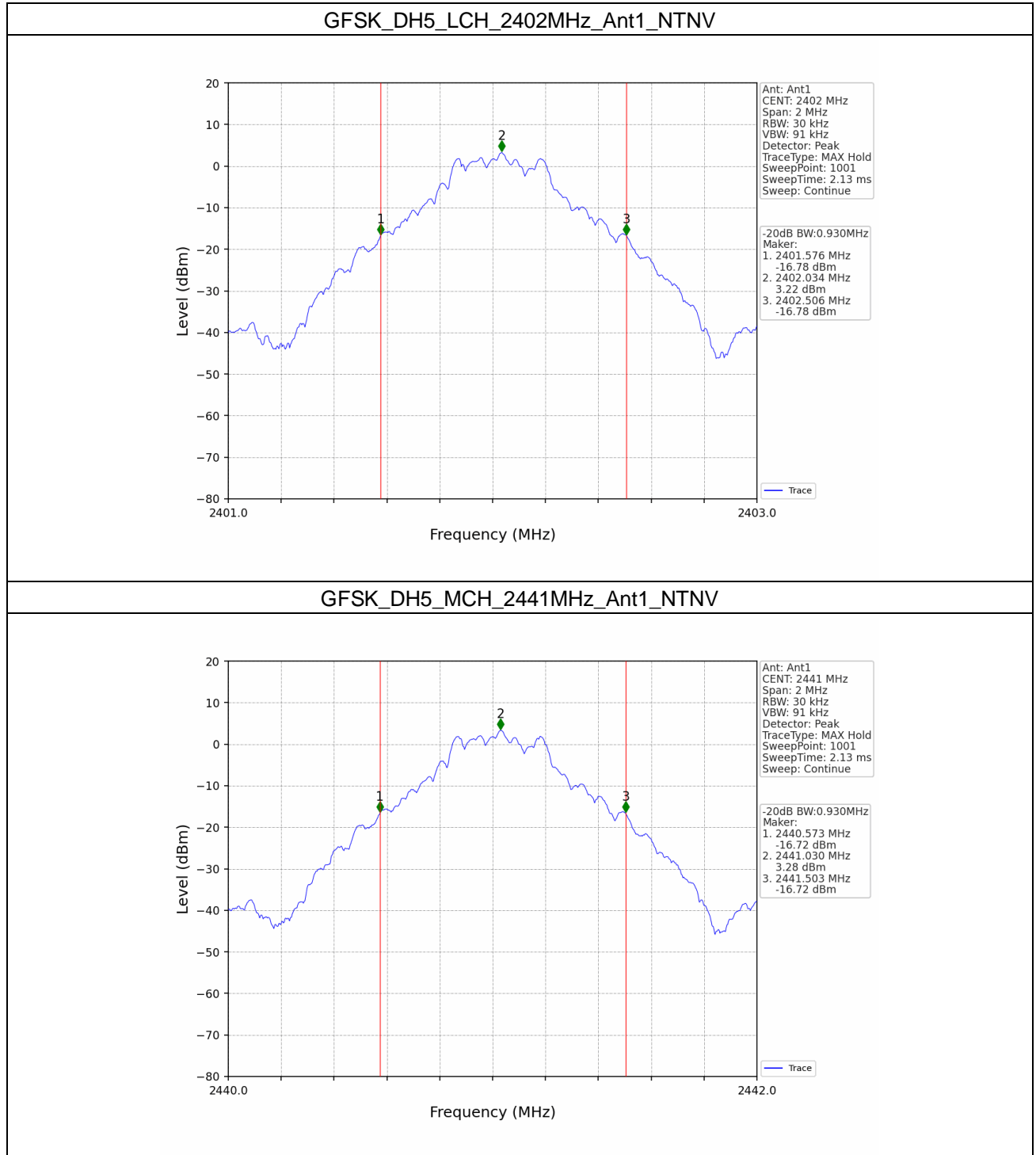
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)	Verdict
					Result	
GFSK	SISO	2402	DH5	1	0.930	Pass
		2441	DH5	1	0.930	Pass
		2480	DH5	1	0.933	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.294	Pass
		2441	2DH5	1	1.298	Pass
		2480	2DH5	1	1.298	Pass
8DPSK	SISO	2402	3DH5	1	1.309	Pass
		2441	3DH5	1	1.309	Pass
		2480	3DH5	1	1.306	Pass



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1.2.2 Test Graph



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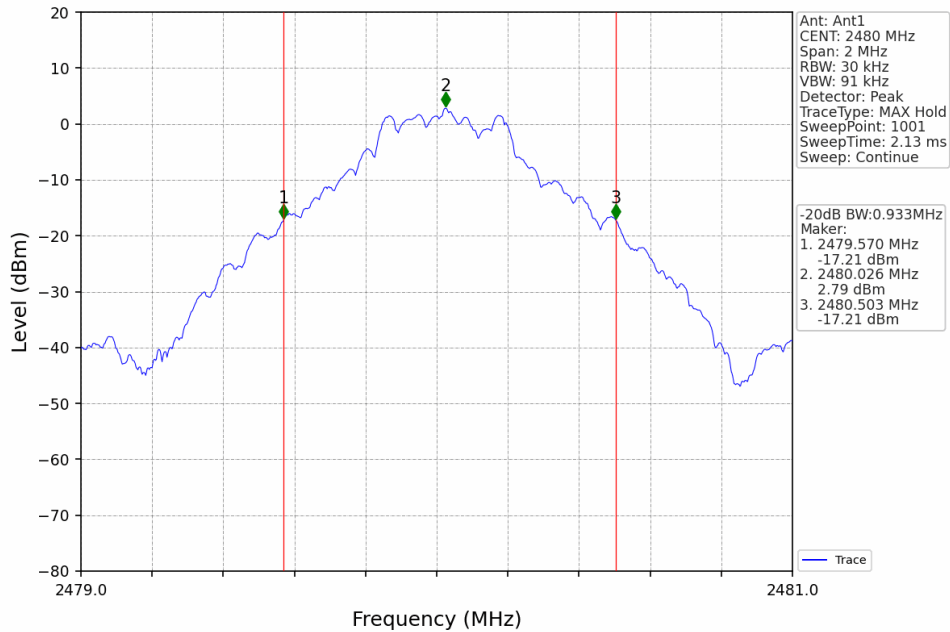
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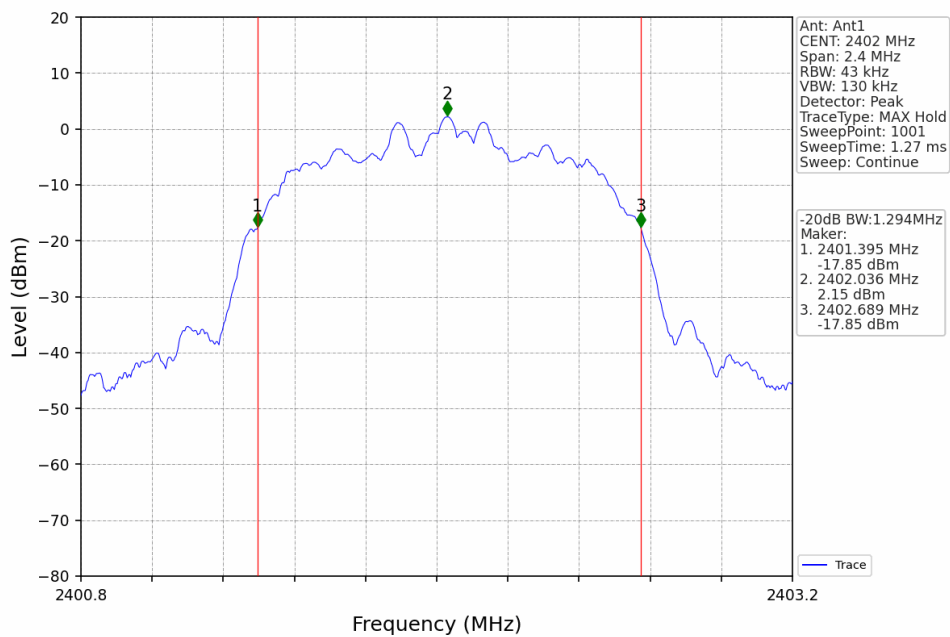
Report No.: FYCR230400006402

Page: 59 of 97

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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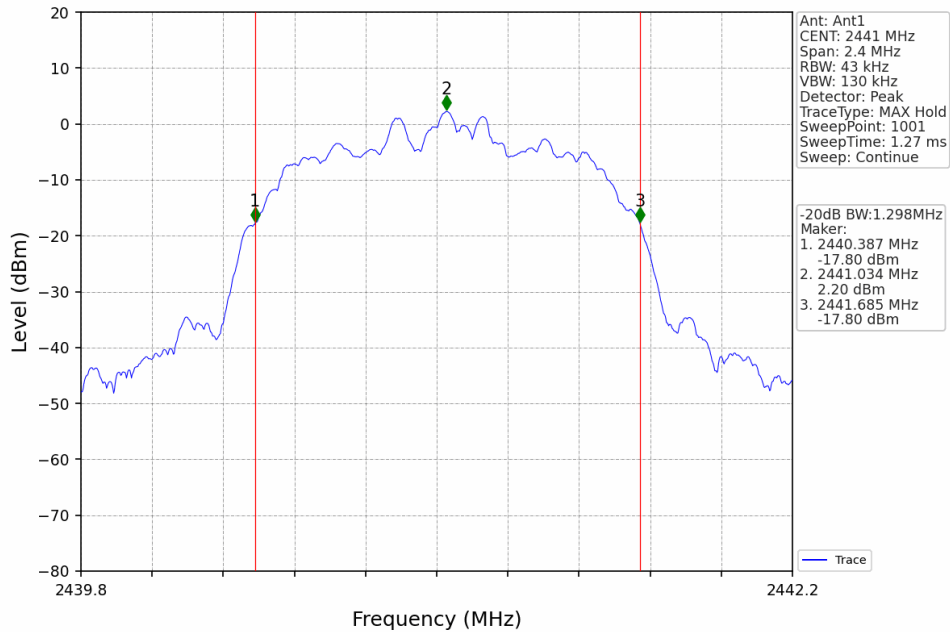
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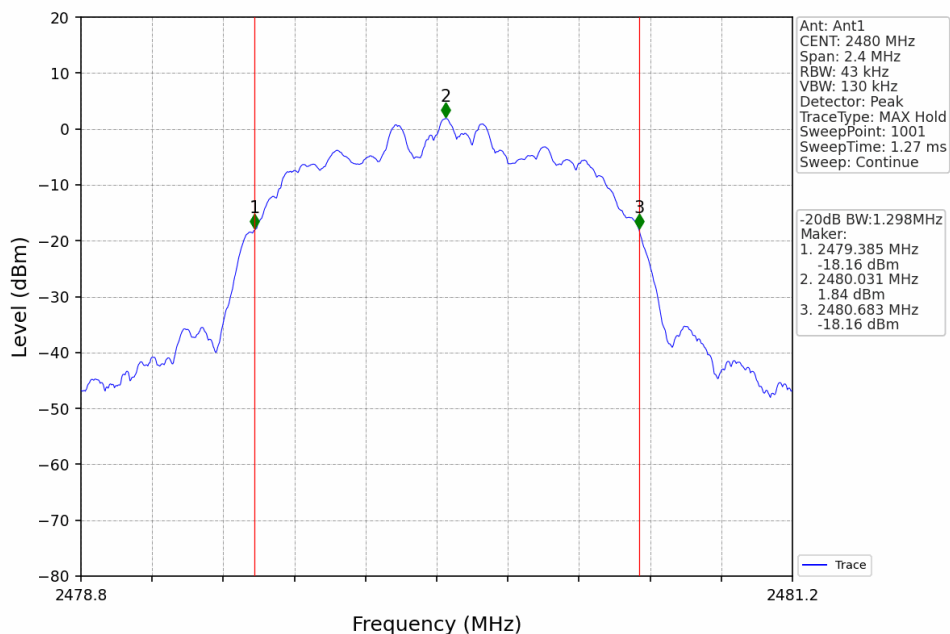
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Page: 60 of 97

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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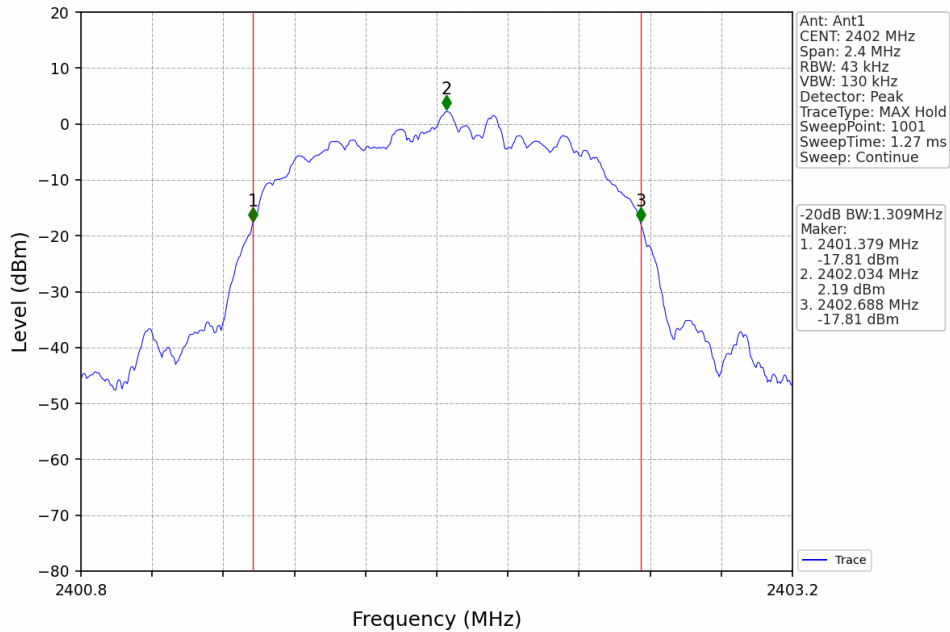
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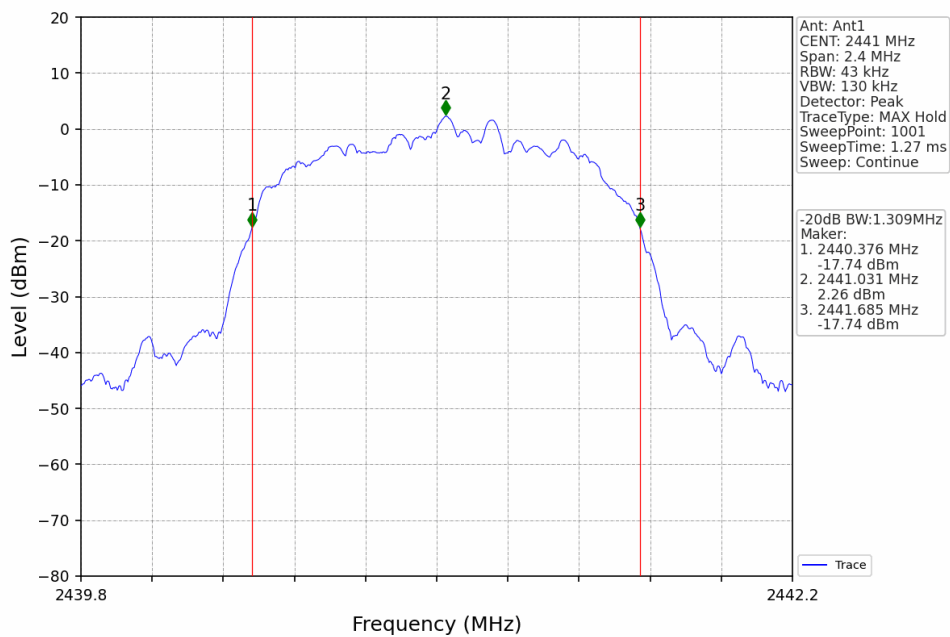
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8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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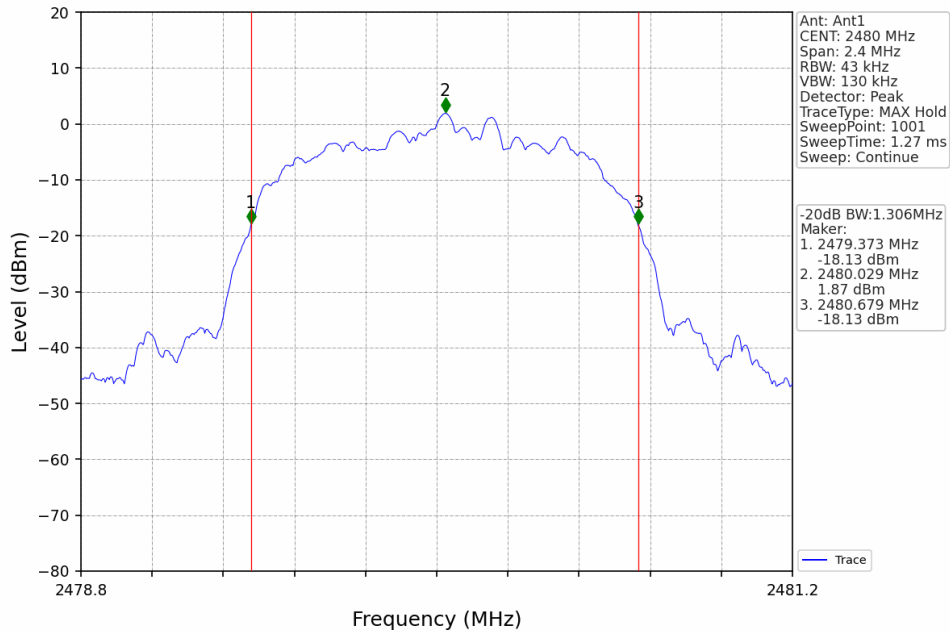
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8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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Report No.: FYCR230400006402

Page: 63 of 97

2. Maximum Conducted Output Power

2.1 Power

2.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	3.36	<=30	Pass
		2441	DH5	3.45	<=30	Pass
		2480	DH5	3.07	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	3.67	<=20.97	Pass
		2441	2DH5	3.76	<=20.97	Pass
		2480	2DH5	3.40	<=20.97	Pass
8DPSK	SISO	2402	3DH5	4.22	<=20.97	Pass
		2441	3DH5	4.24	<=20.97	Pass
		2480	3DH5	3.79	<=20.97	Pass

Note1: Antenna Gain:Ant1:1.7dBi;



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 64 of 97

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	1.000	0.933	≥ 0.933	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.298	≥ 0.865	Pass
8DPSK	SISO	HOPP	3DH5	0.998	1.309	≥ 0.873	Pass



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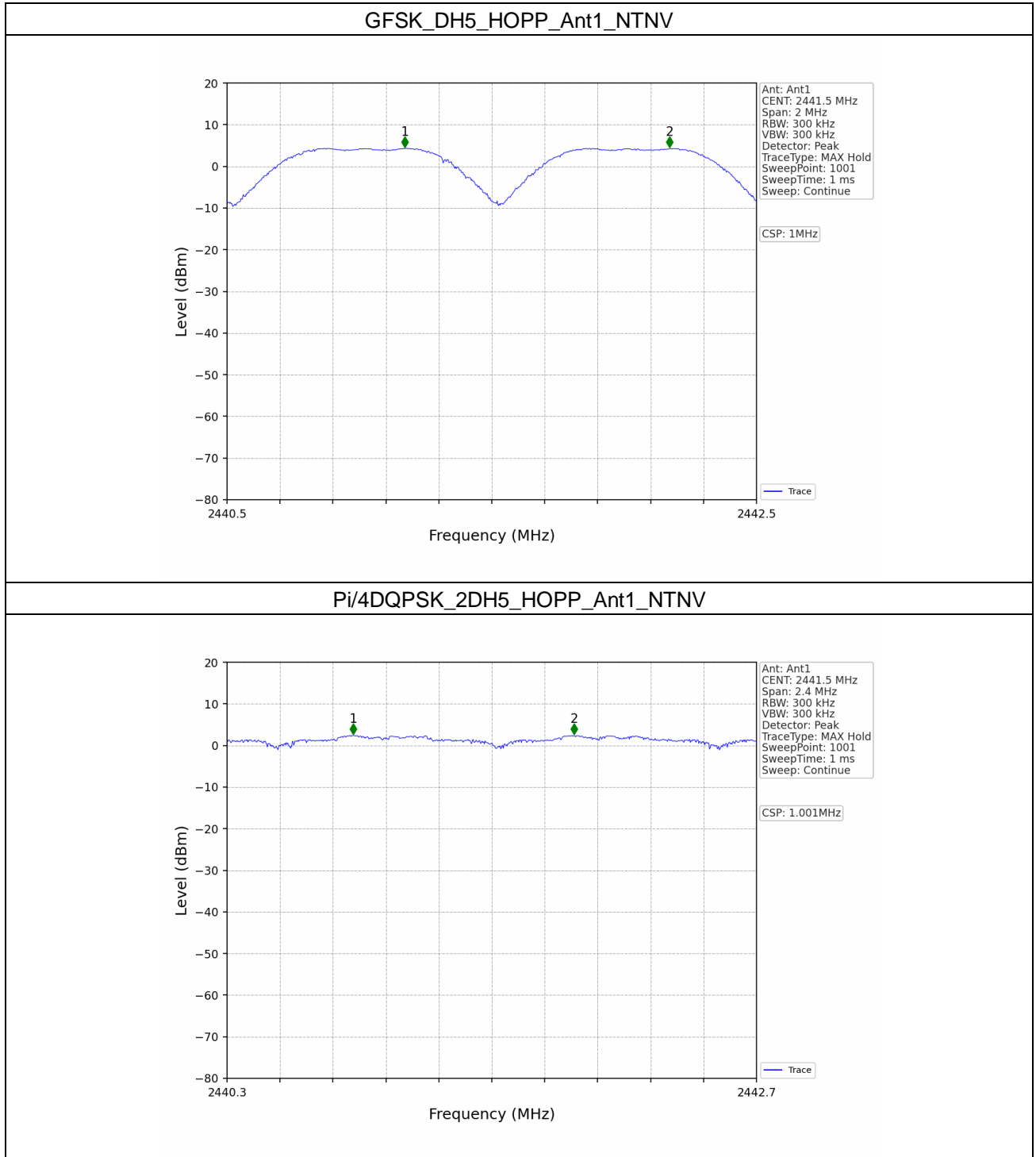
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3.1.2 Test Graph



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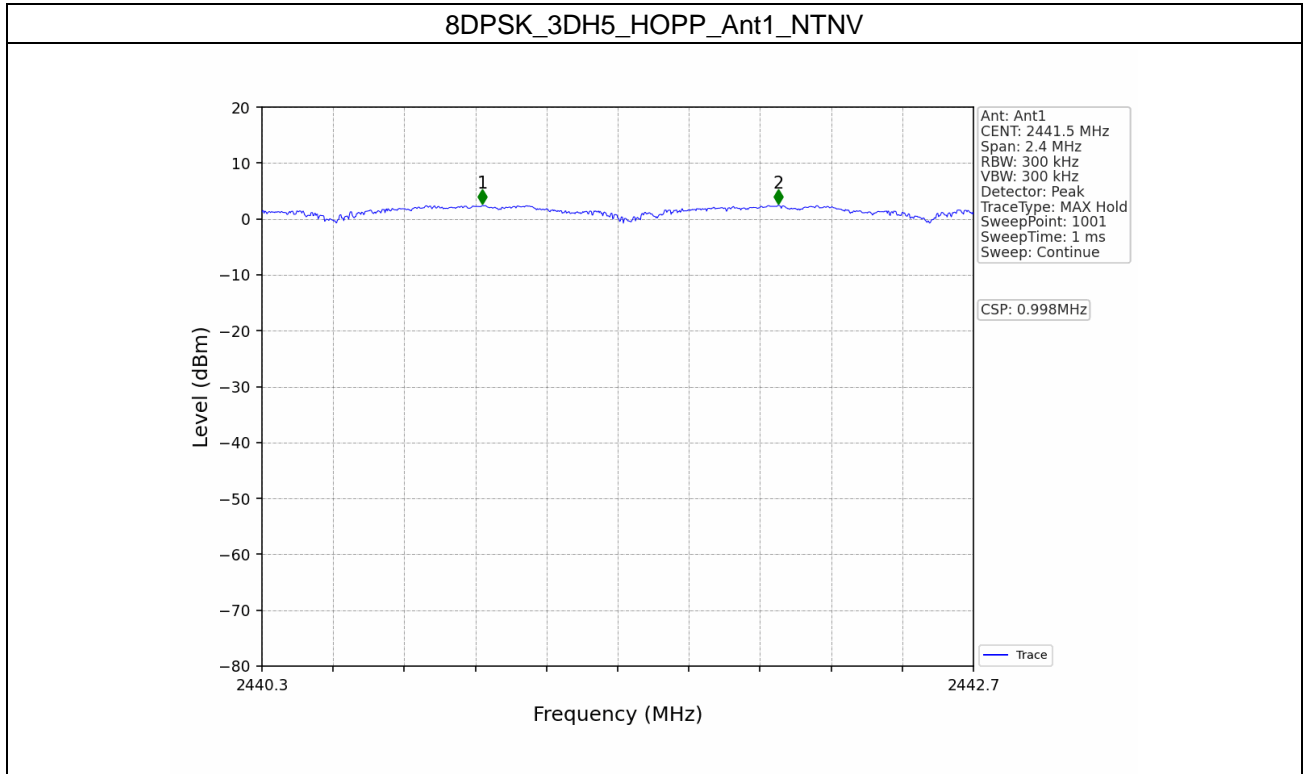
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 67 of 97

4. Number of Hopping Frequencies

4.1 HoppNum

4.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	≥ 15	Pass
PI/4DQPSK	SISO	HOPP	2DH5	79	≥ 15	Pass
8DPSK	SISO	HOPP	3DH5	79	≥ 15	Pass



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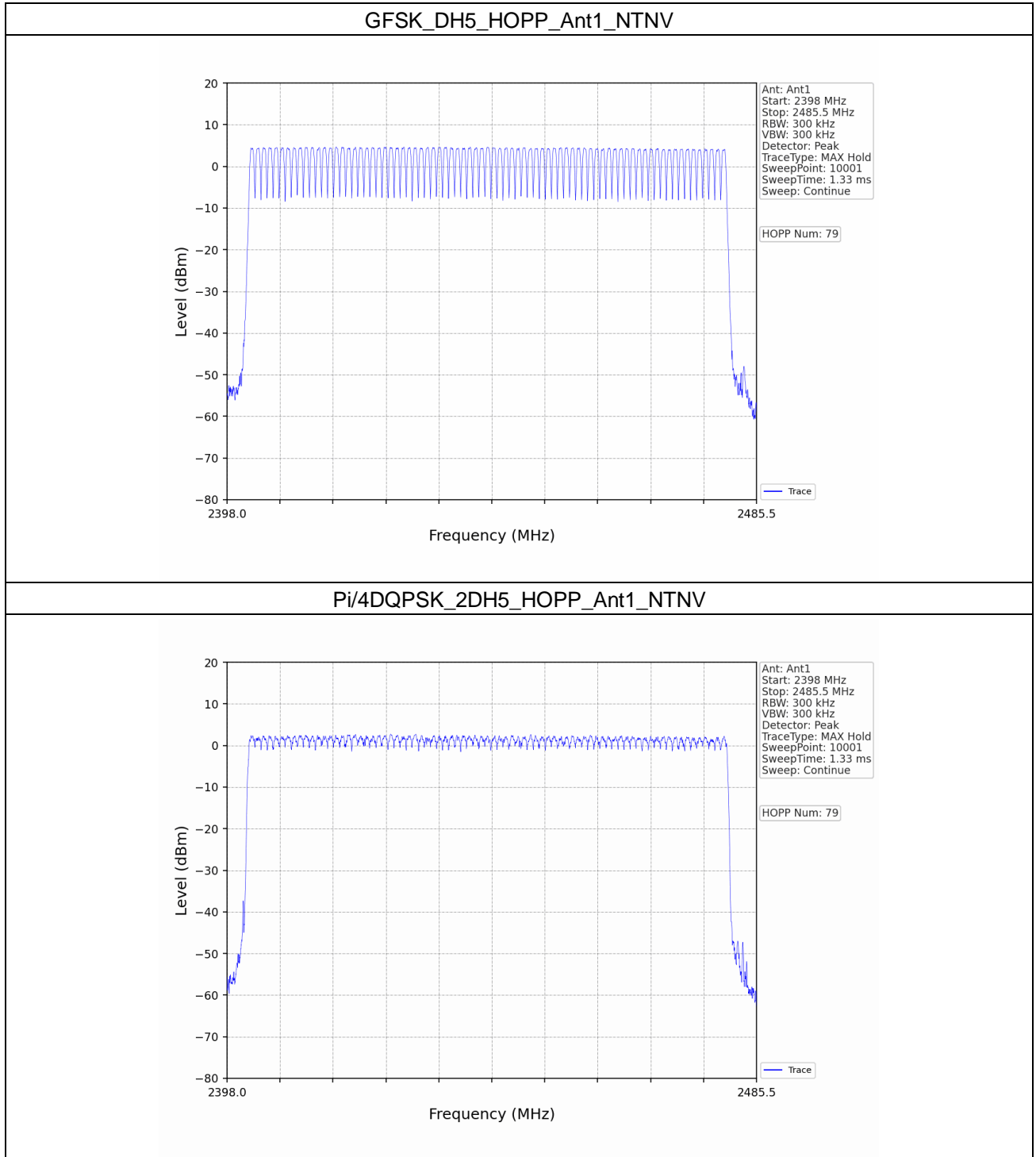
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4.1.2 Test Graph



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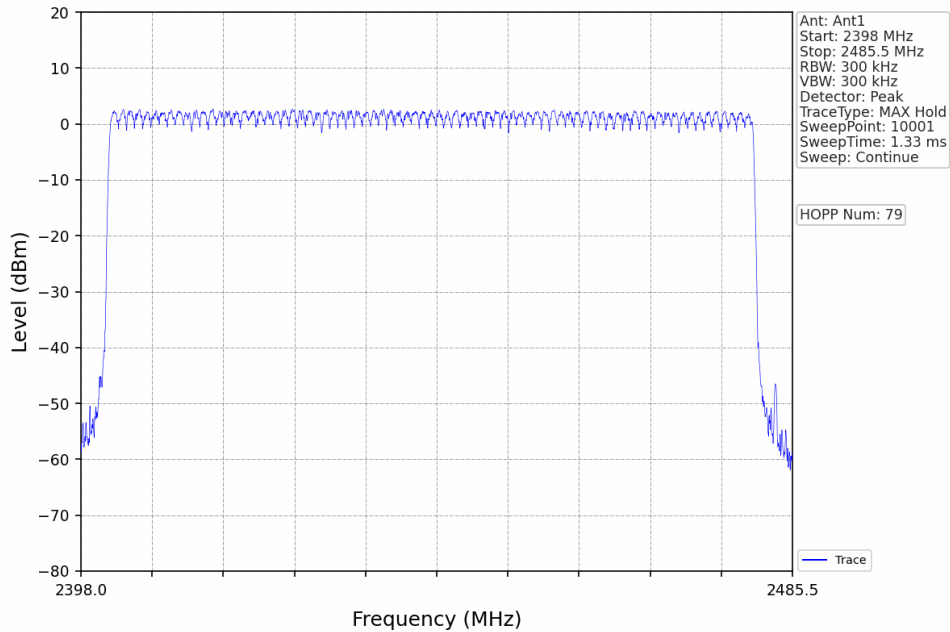
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 69 of 97

8DPSK_3DH5_HOPP_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 70 of 97

5. Time of Occupancy (Dwell Time)

5.1 Ant1

5.1.1 Test Result

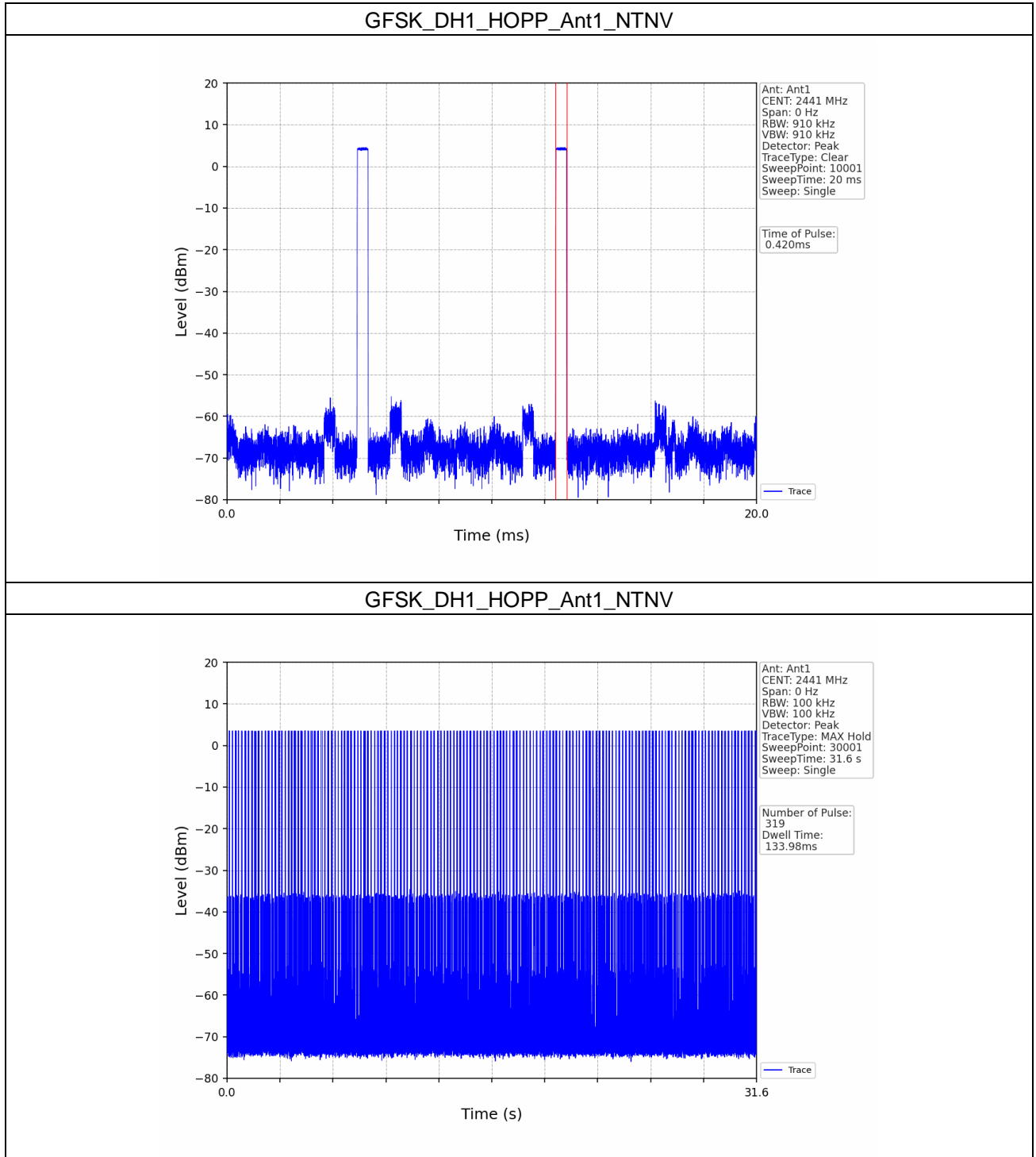
Ant1									
Mode	Tx Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.420	31.600	319	133.980	<=400	Pass
			DH3	1.674	31.600	164	274.536	<=400	Pass
			DH5	2.924	31.600	107	312.868	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.424	31.600	319	135.256	<=400	Pass
			2DH3	1.682	31.600	160	269.120	<=400	Pass
			2DH5	2.930	31.600	114	334.020	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.430	31.600	320	137.600	<=400	Pass
			3DH3	1.680	31.600	161	270.480	<=400	Pass
			3DH5	2.932	31.600	106	310.792	<=400	Pass



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5.1.2 Test Graph



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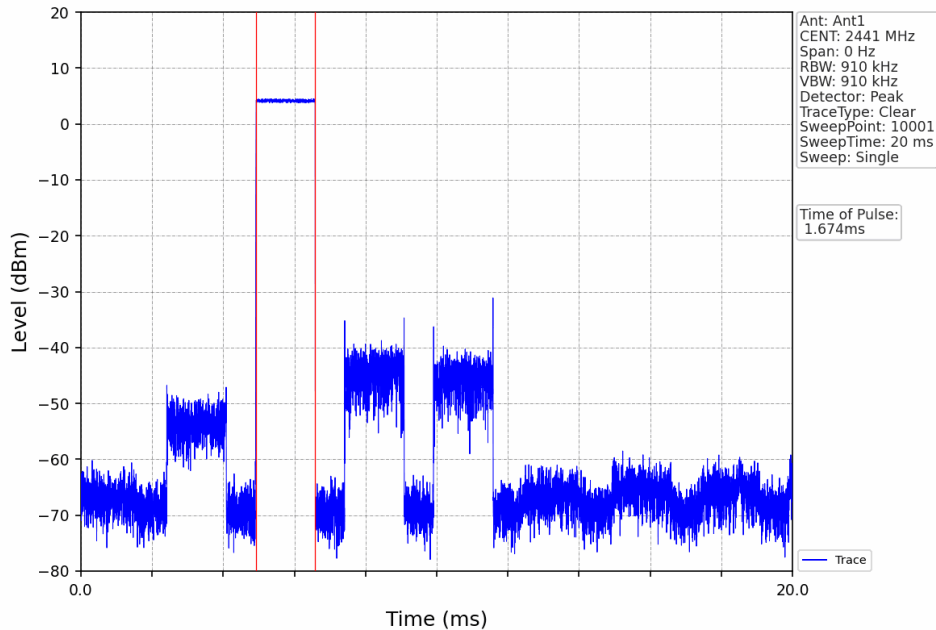
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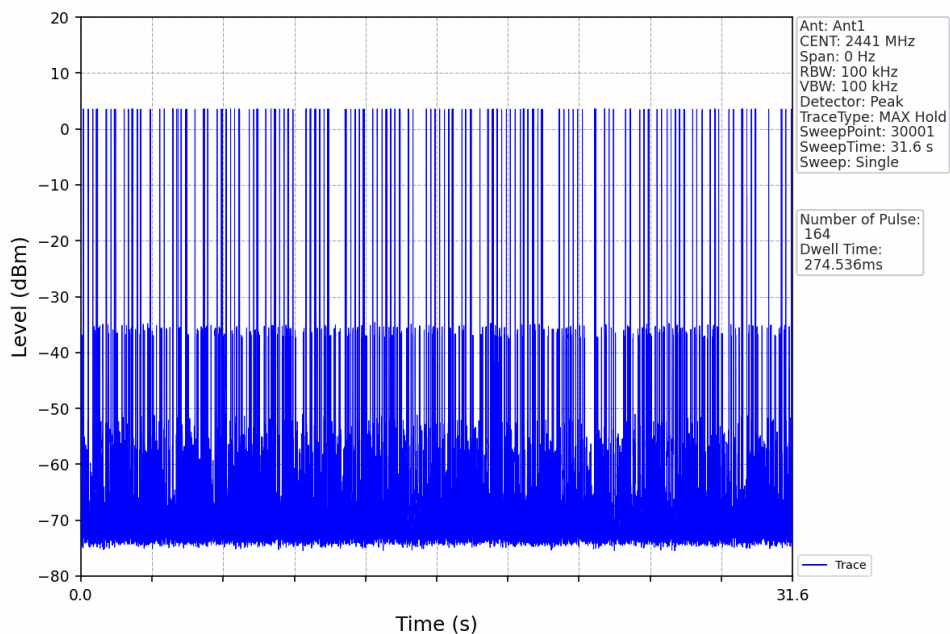
Report No.: FYCR230400006402

Page: 72 of 97

GFSK_DH3_HOPP_Ant1_NTNV



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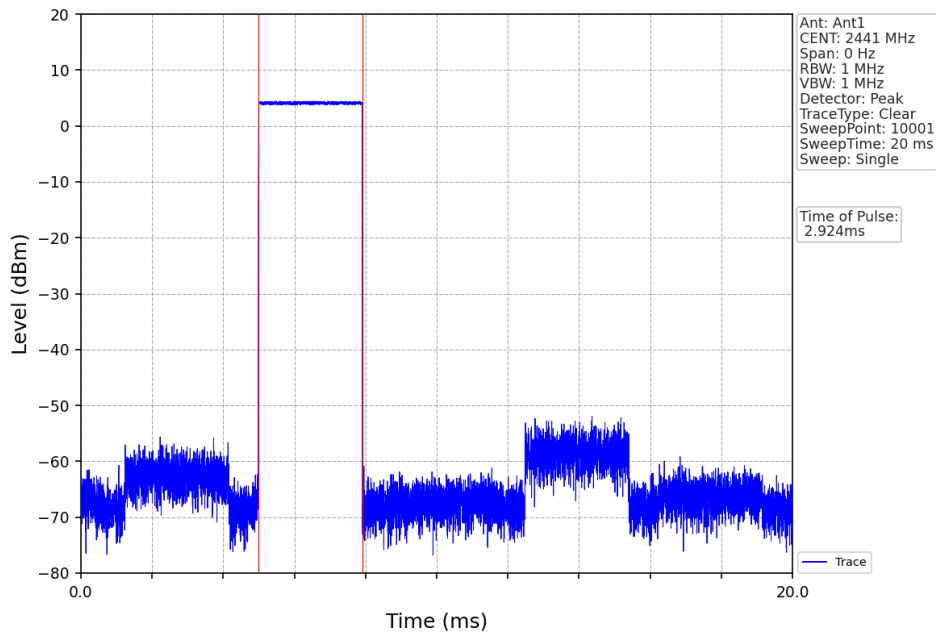
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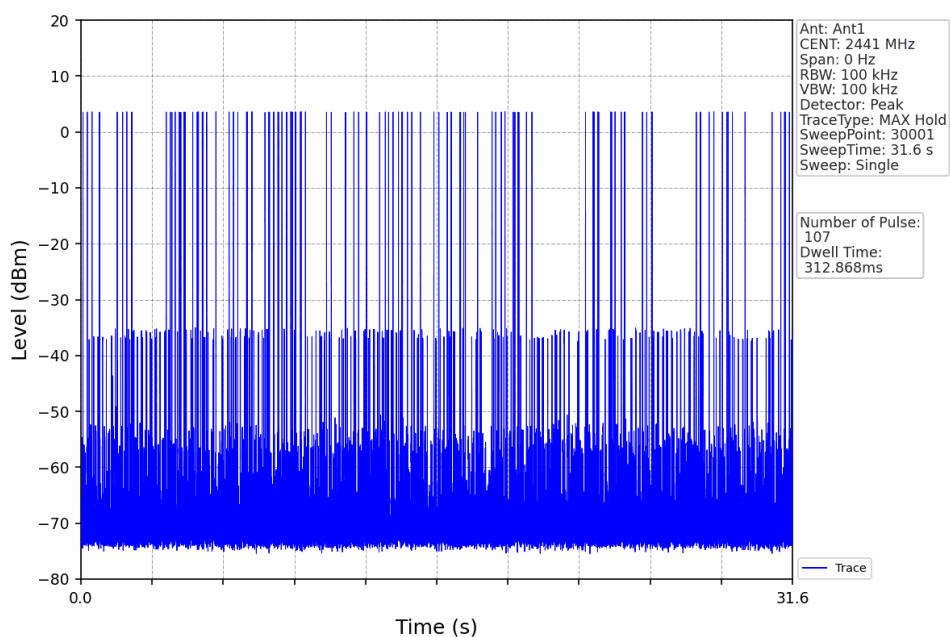
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Page: 73 of 97

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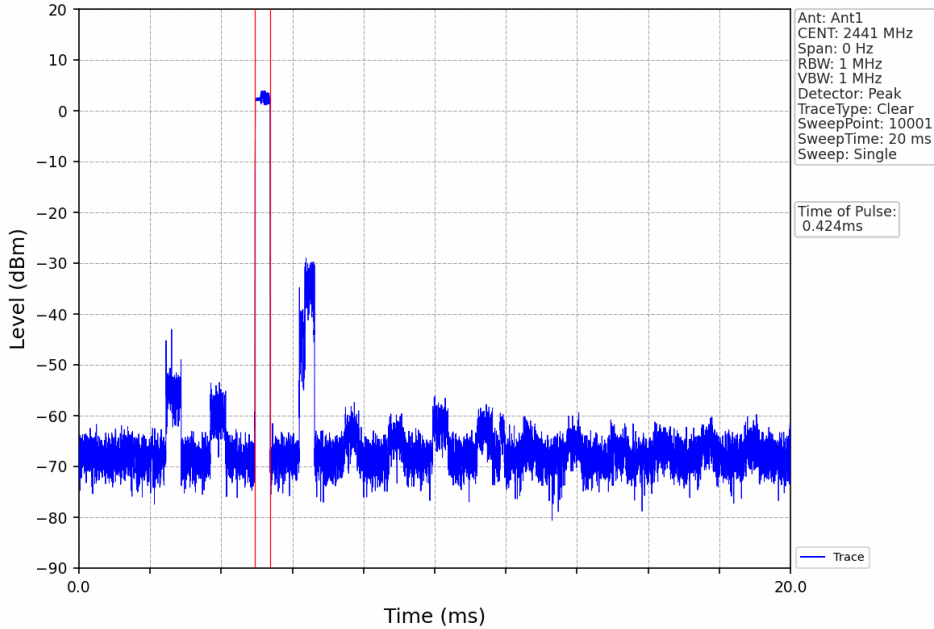
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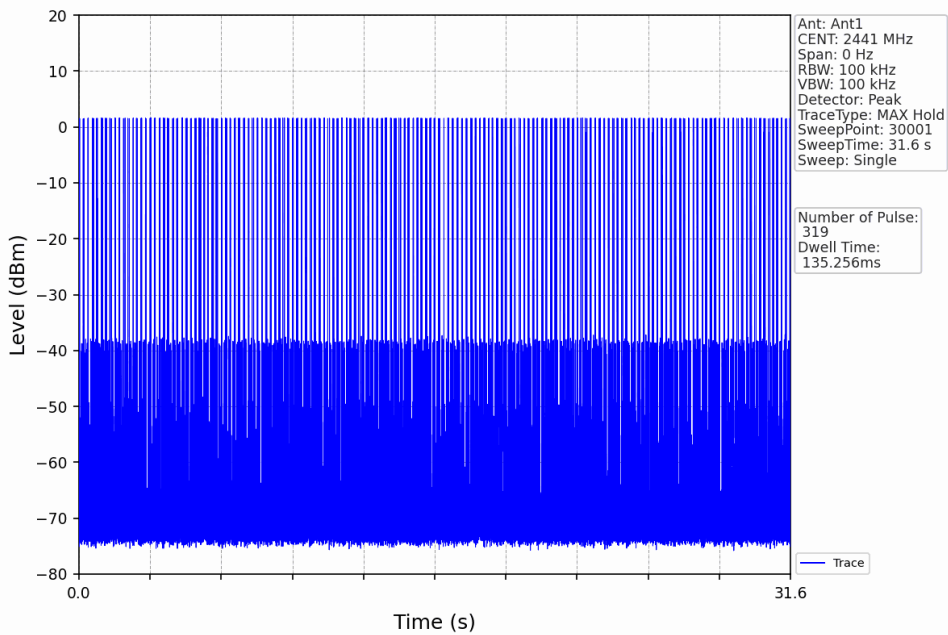
Report No.: FYCR230400006402

Page: 74 of 97

Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH1_HOPP_Ant1_NTNV



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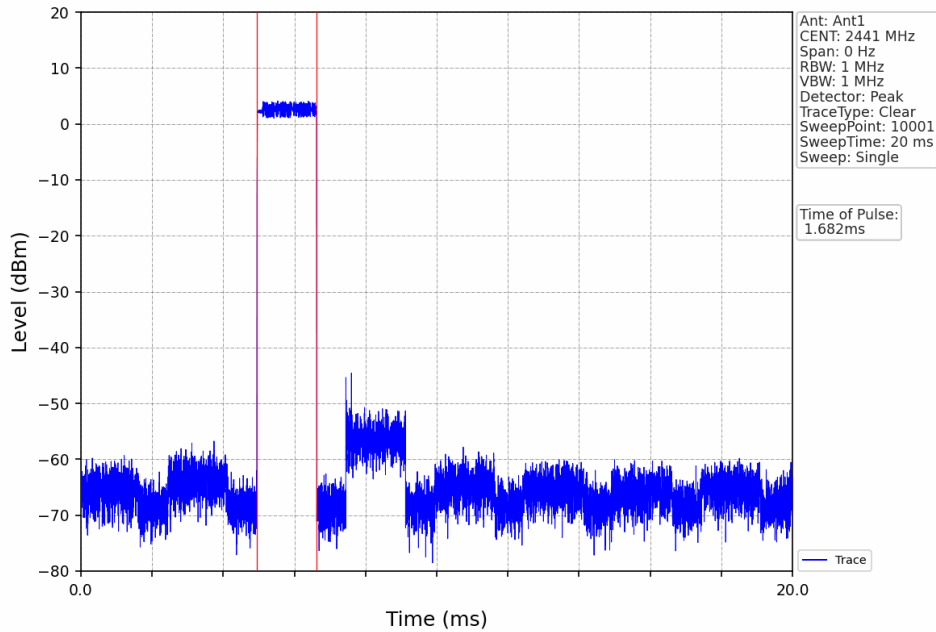
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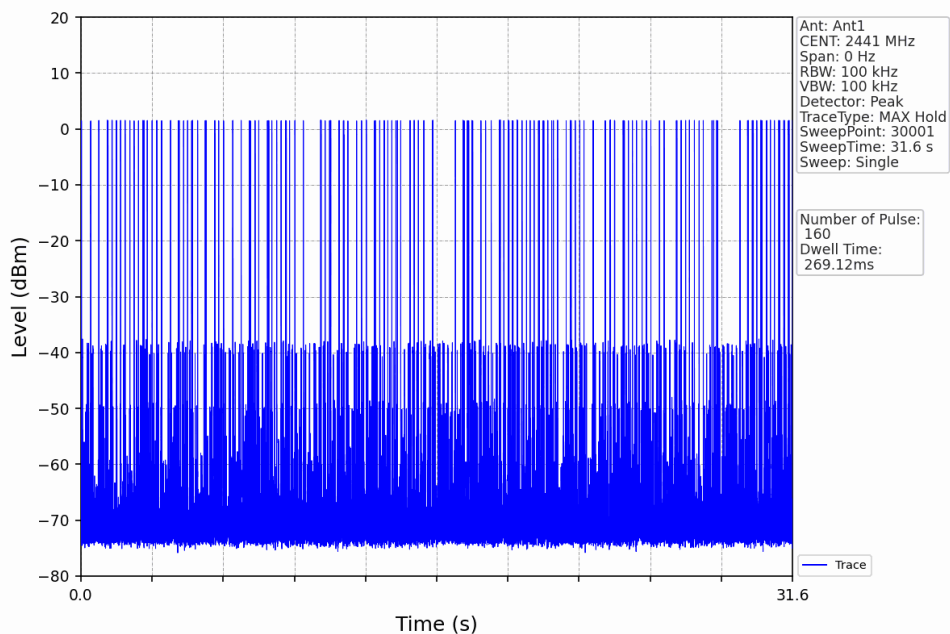
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Page: 75 of 97

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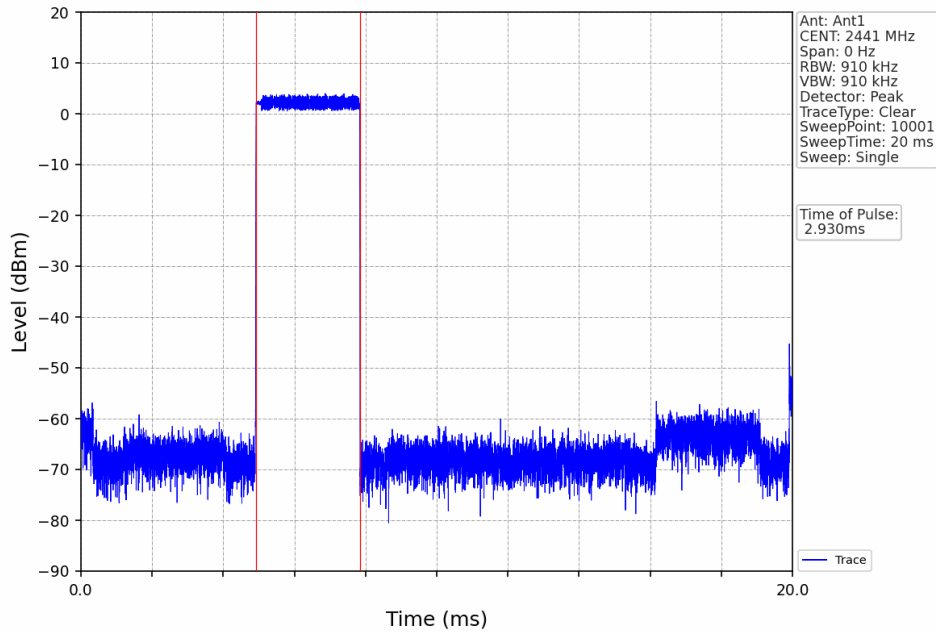
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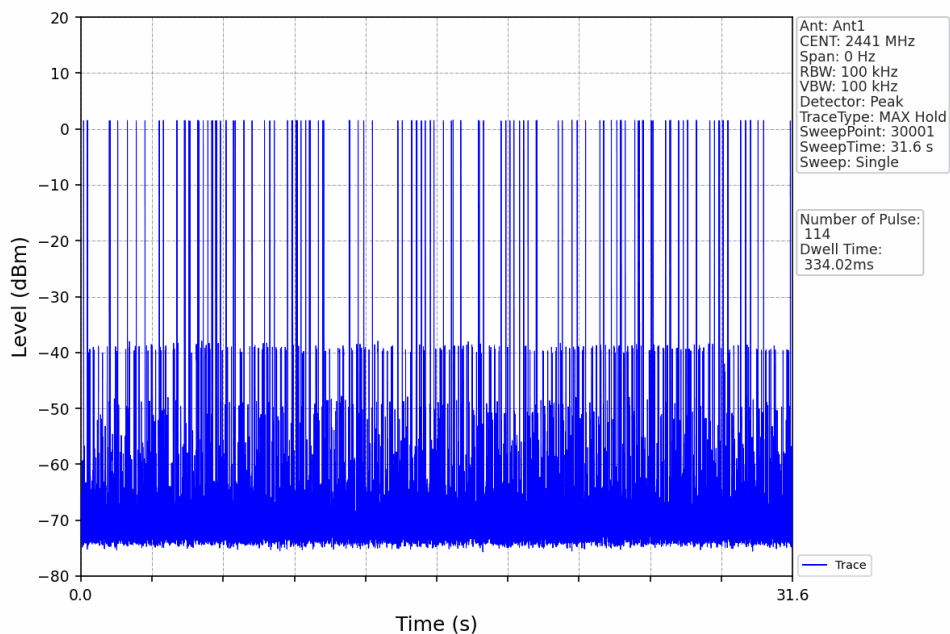
Report No.: FYCR230400006402

Page: 76 of 97

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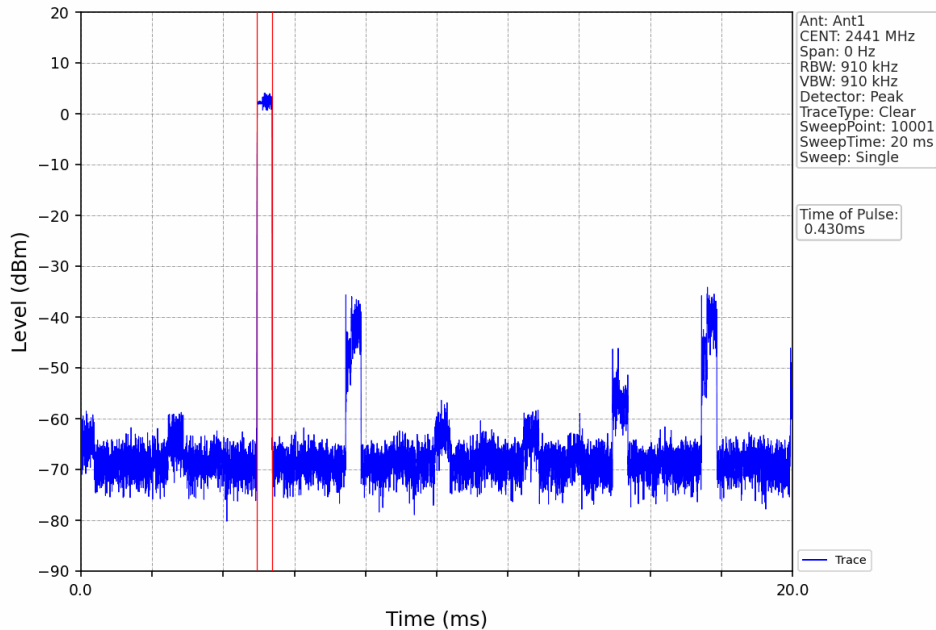
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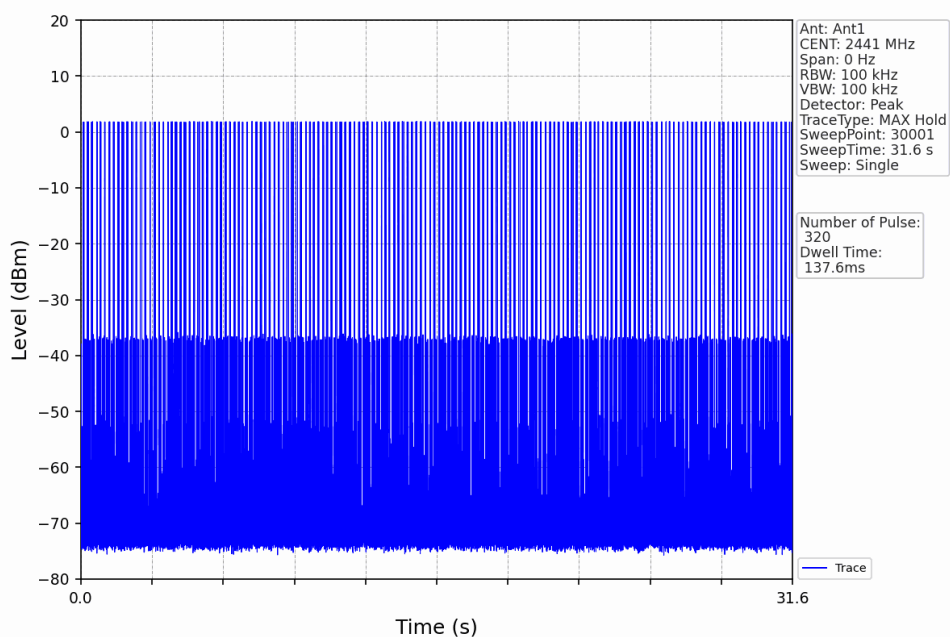
Report No.: FYCR230400006402

Page: 77 of 97

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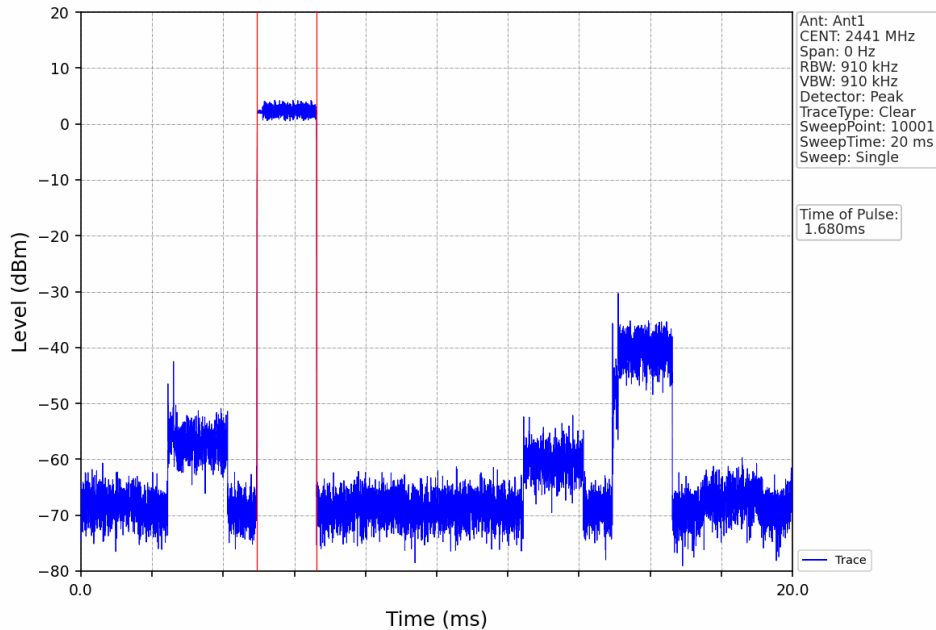
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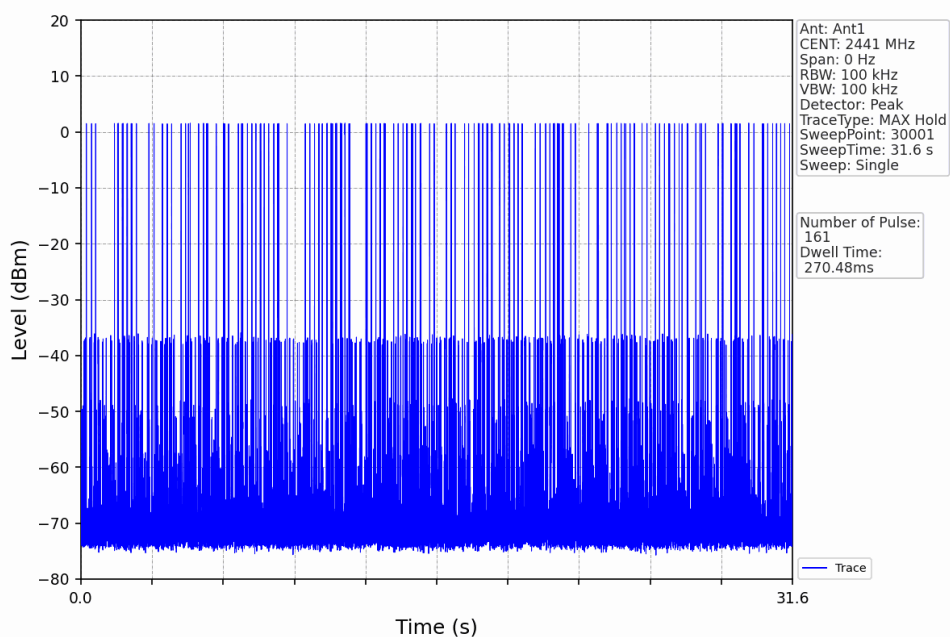
Report No.: FYCR230400006402

Page: 78 of 97

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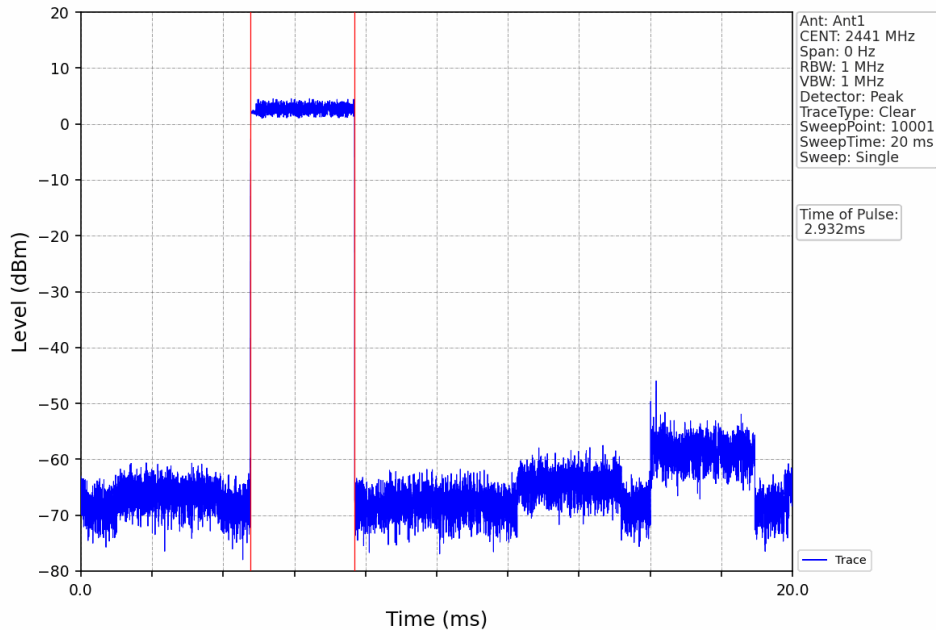
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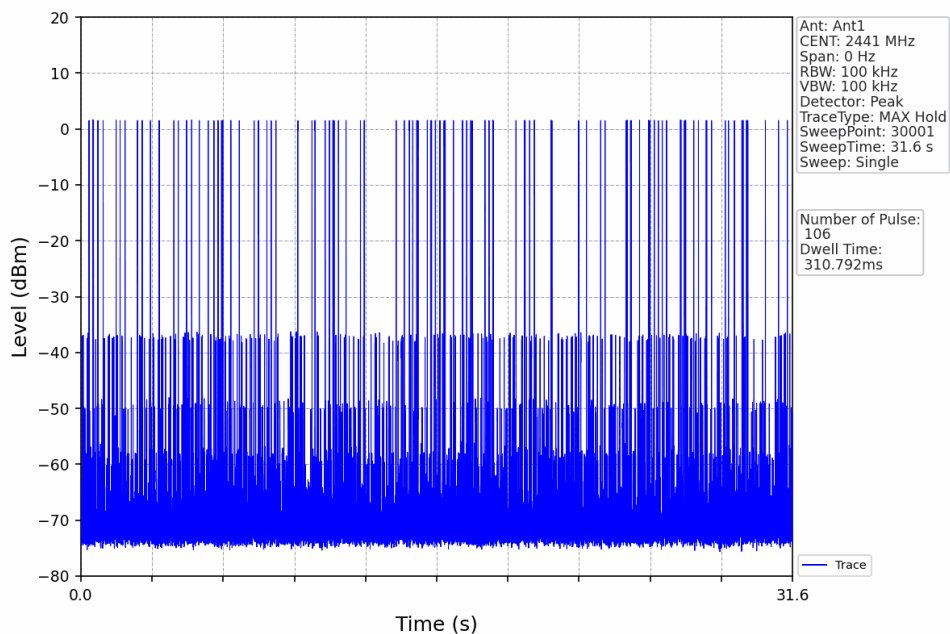
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Compliance Certification Services (Kunshan) Inc. Shenzhen Branch

SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 80 of 97

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)
GFSK	SISO	2402	DH5	1	4.15
		2441	DH5	1	4.18
		2480	DH5	1	3.87
Pi/4DQPSK	SISO	2402	2DH5	1	2.18
		2441	2DH5	1	2.24
		2480	2DH5	1	1.86
8DPSK	SISO	2402	3DH5	1	2.20
		2441	3DH5	1	2.24
		2480	3DH5	1	1.88



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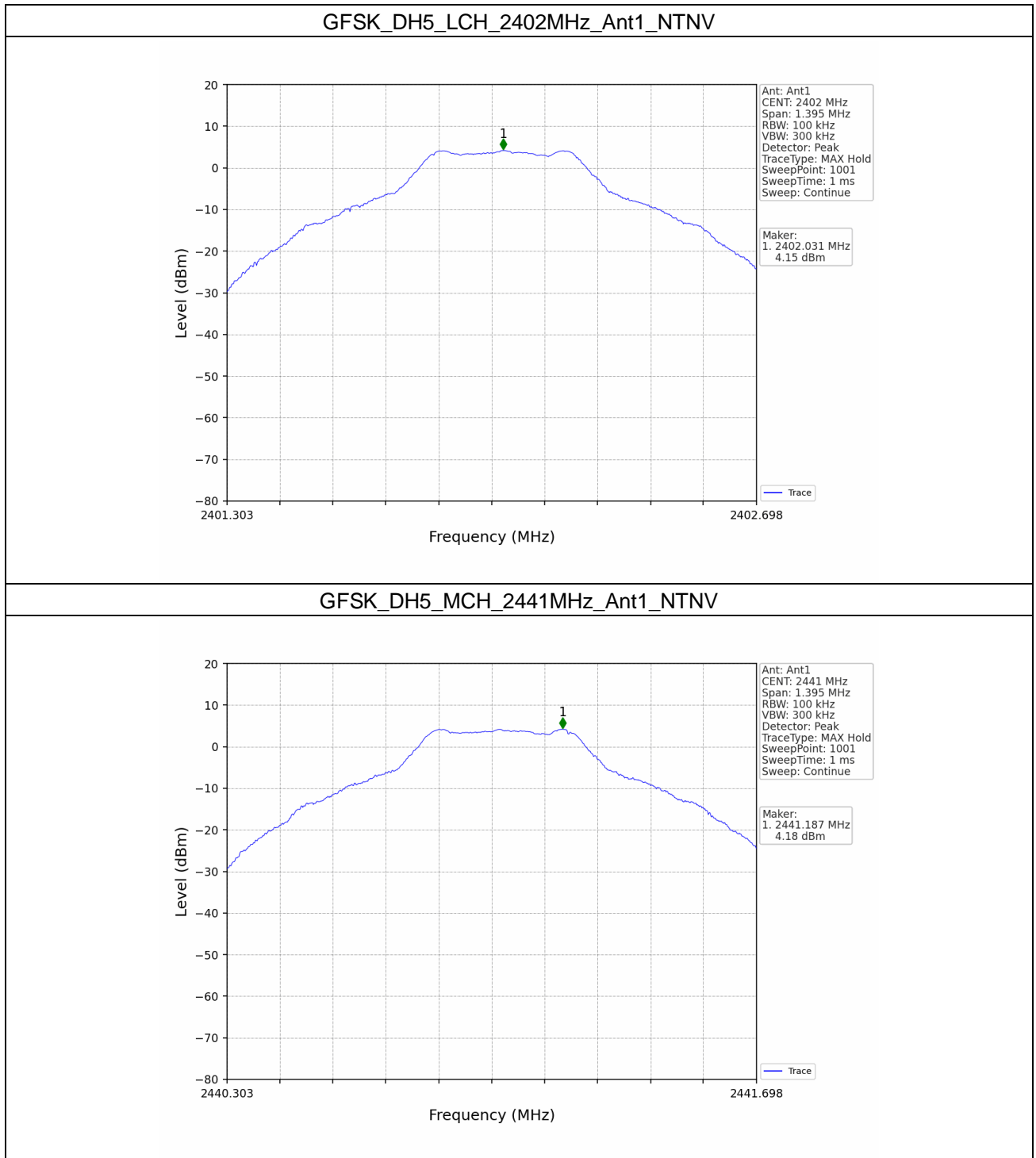
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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 81 of 97

6.1.2 Test Graph



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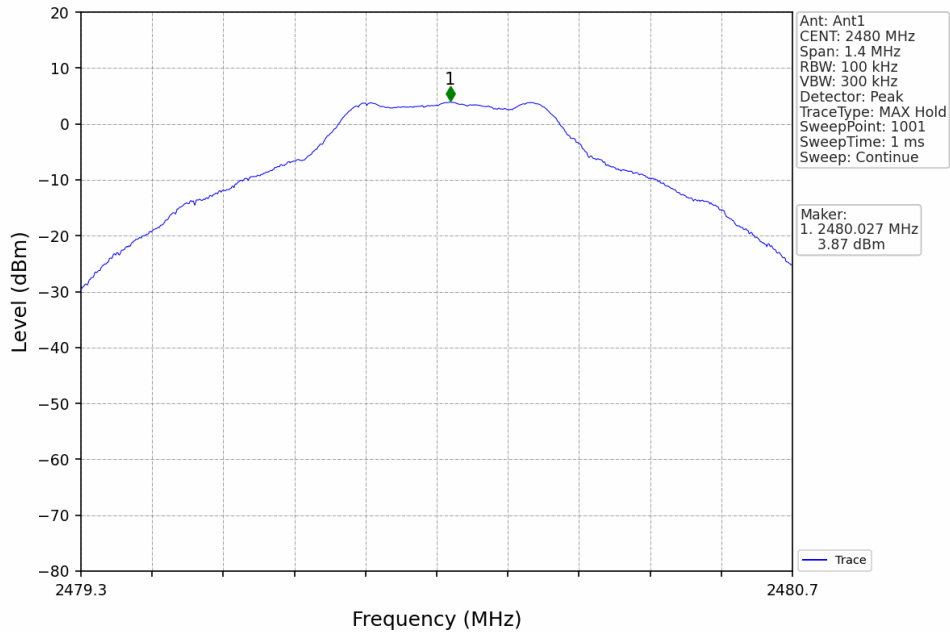
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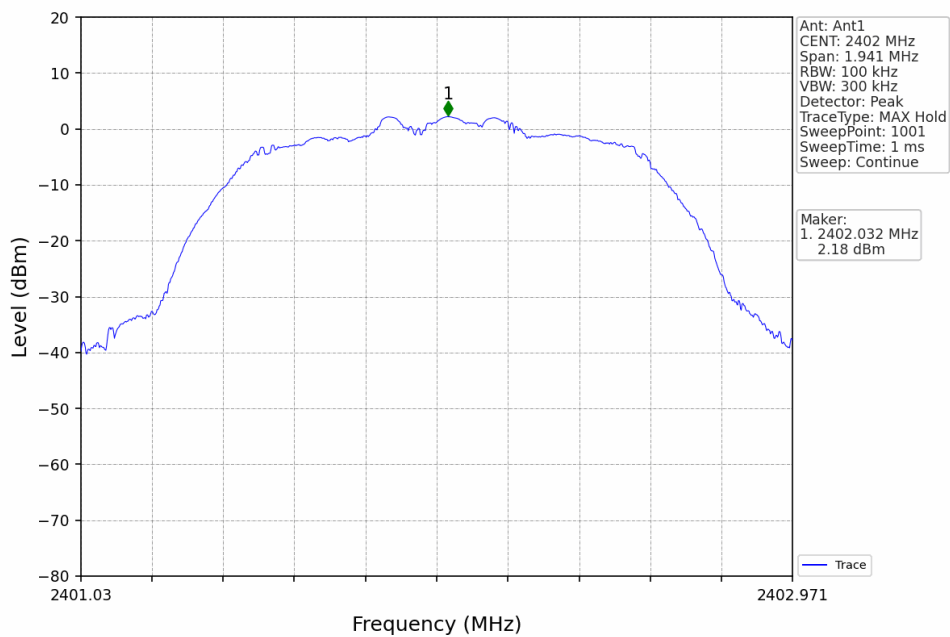
Report No.: FYCR230400006402

Page: 82 of 97

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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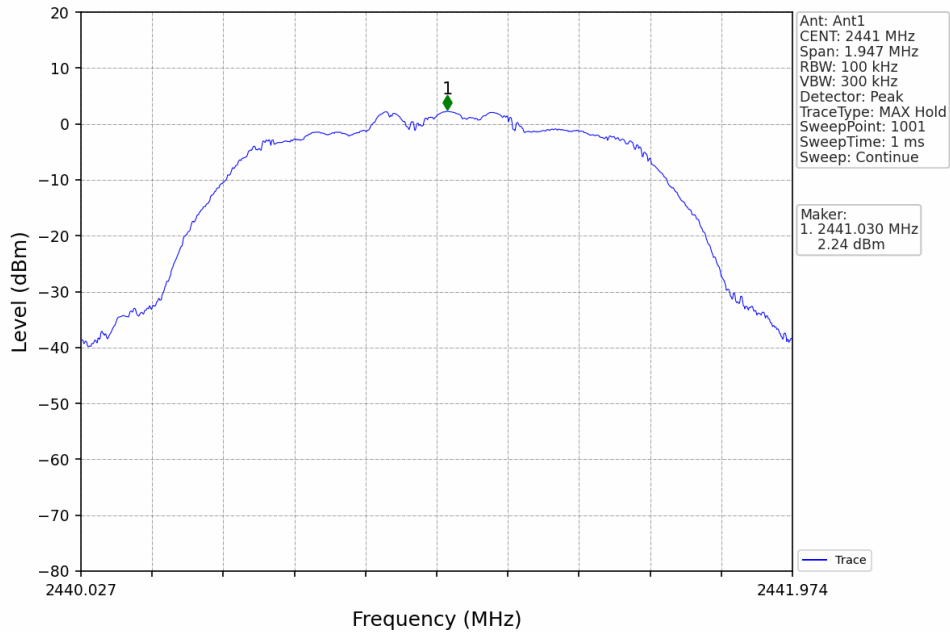
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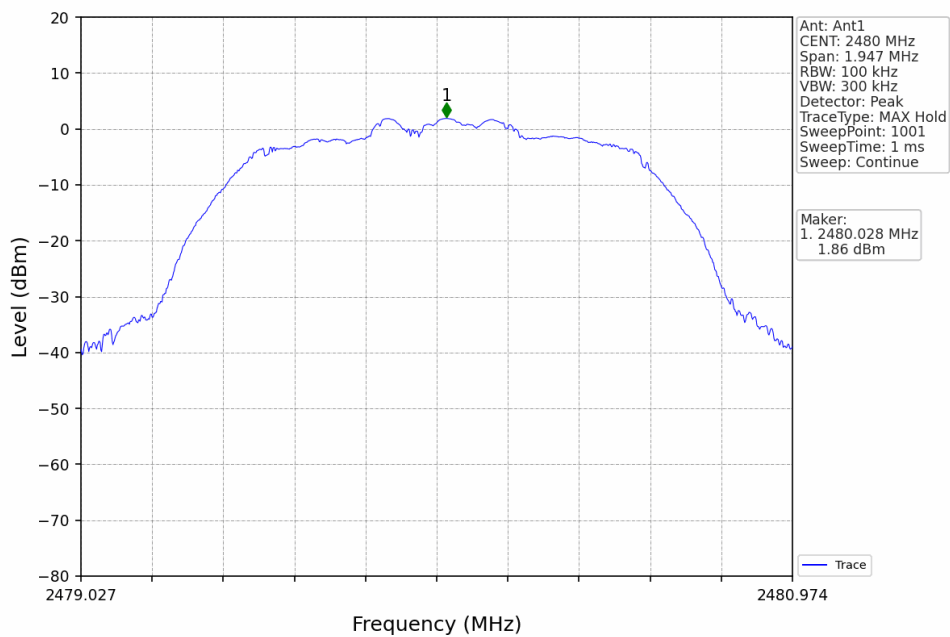
Report No.: FYCR230400006402

Page: 83 of 97

Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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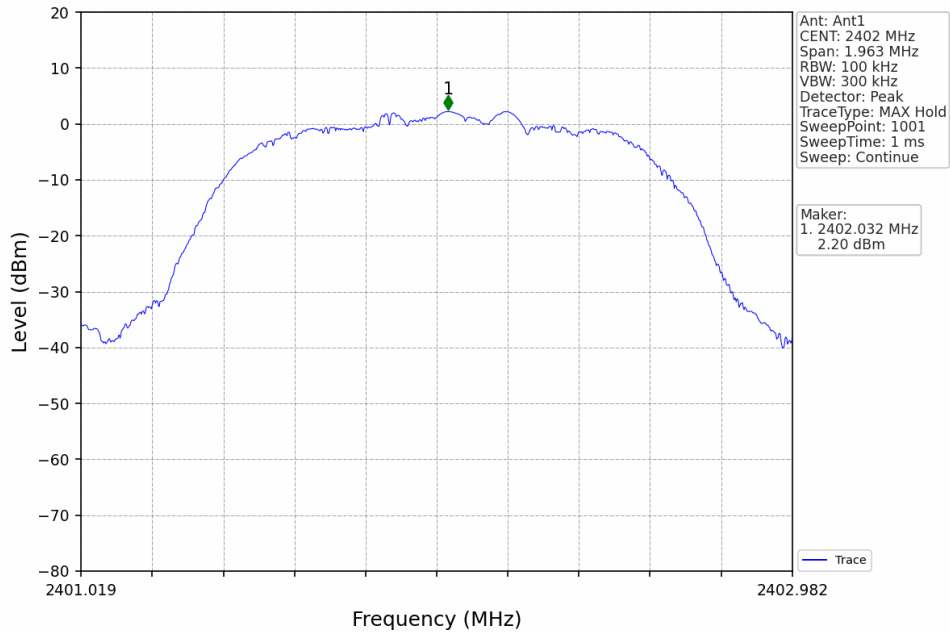
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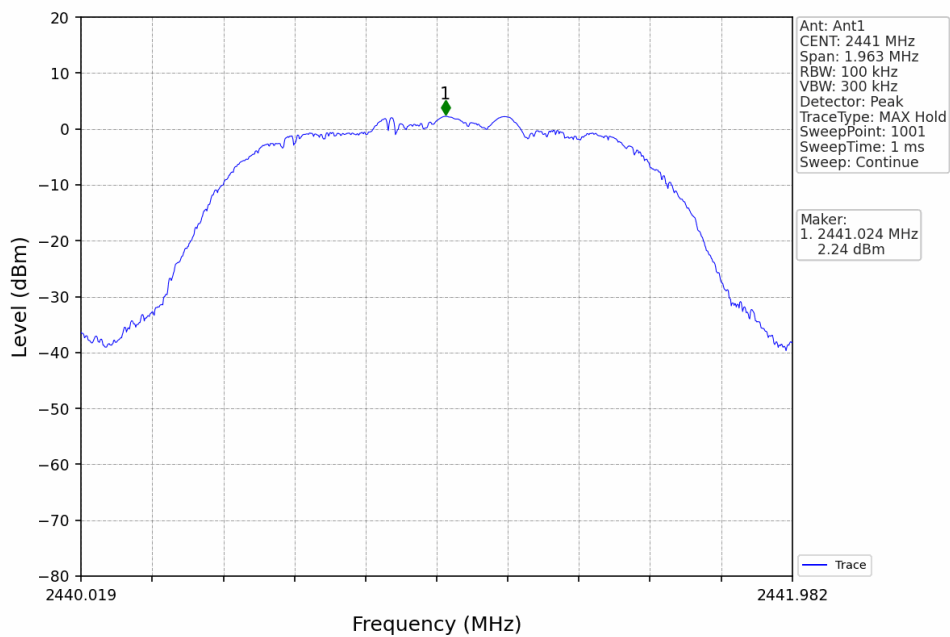
Report No.: FYCR230400006402

Page: 84 of 97

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



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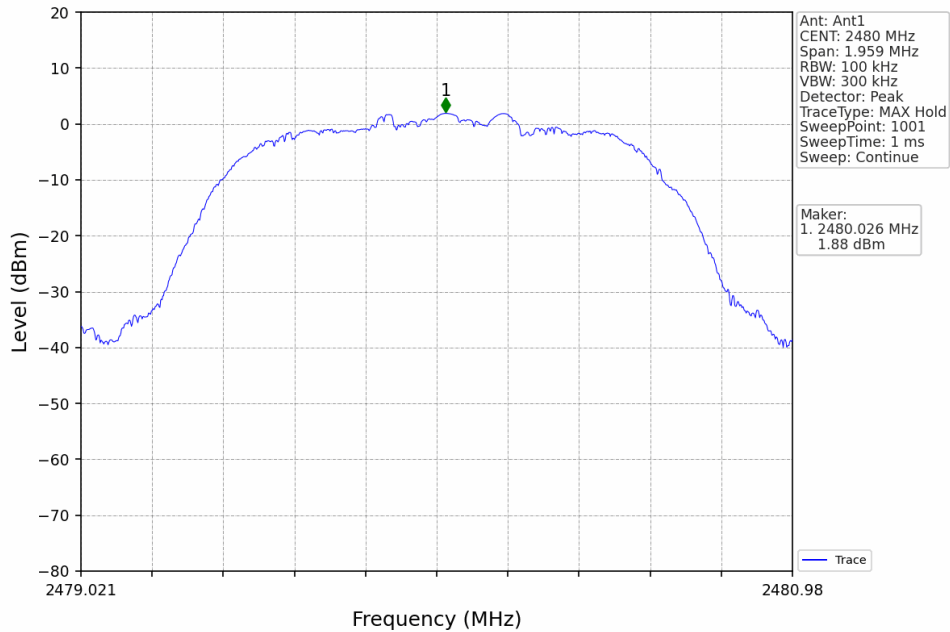
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Page: 85 of 97

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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SZCCS-TRF-01 Rev. A/0 Aug01,2022

Report No.: FYCR230400006402

Page: 86 of 97

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	4.18	-15.82	Pass
		2441	DH5	1	4.18	-15.82	Pass
		2480	DH5	1	4.18	-15.82	Pass
		HOPP	DH5	1	4.18	-15.82	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	2.24	-17.76	Pass
		2441	2DH5	1	2.24	-17.76	Pass
		2480	2DH5	1	2.24	-17.76	Pass
		HOPP	2DH5	1	2.24	-17.76	Pass
8DPSK	SISO	2402	3DH5	1	2.24	-17.76	Pass
		2441	3DH5	1	2.24	-17.76	Pass
		2480	3DH5	1	2.24	-17.76	Pass
		HOPP	3DH5	1	2.24	-17.76	Pass



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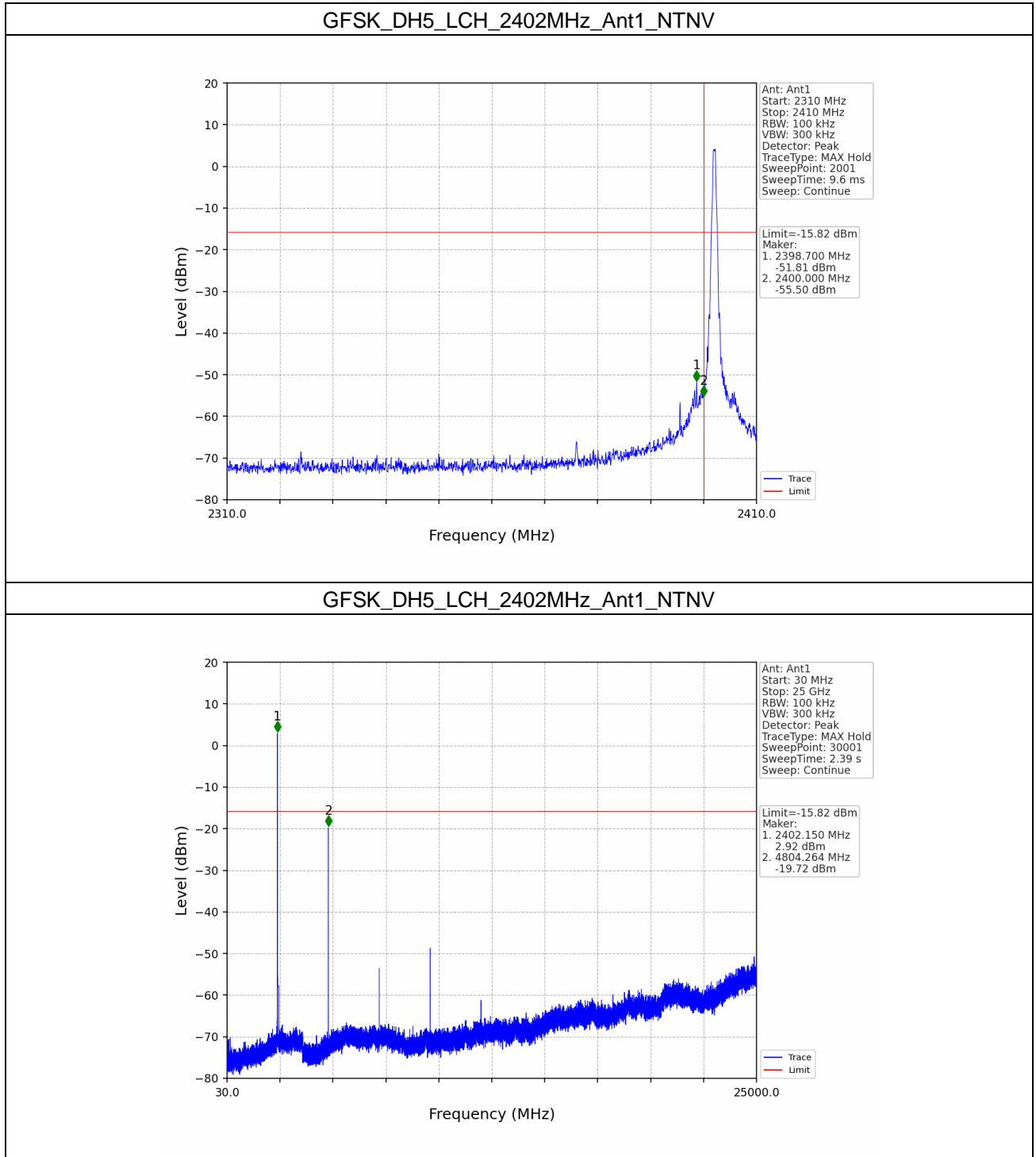
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Page: 87 of 97

6.2.2 Test Graph



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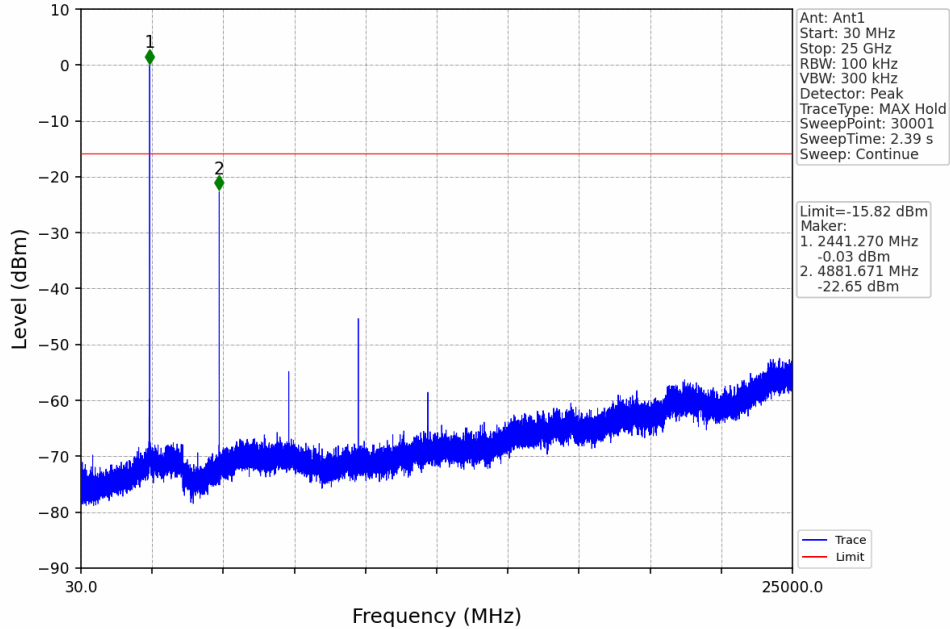
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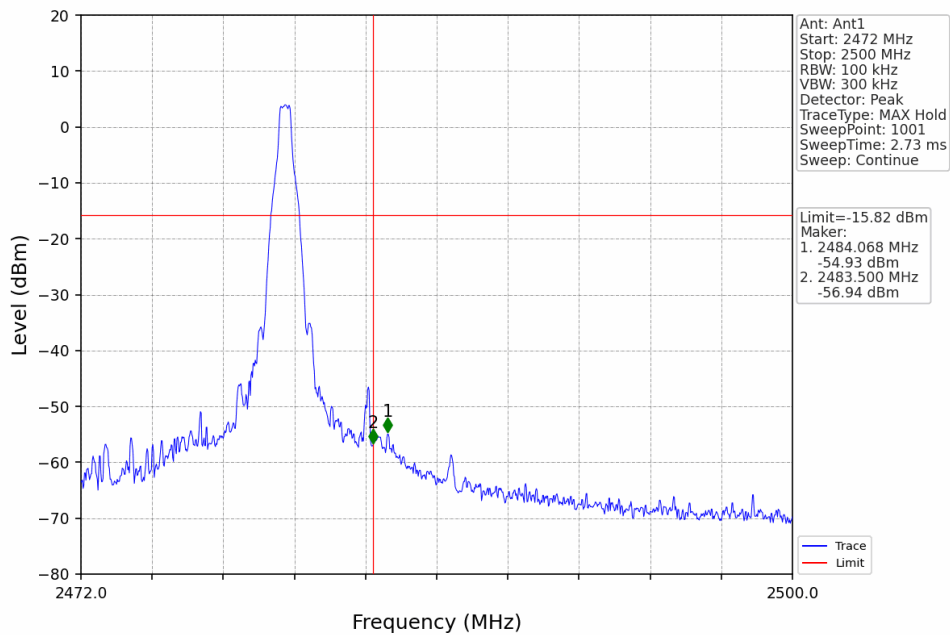
Report No.: FYCR230400006402

Page: 88 of 97

GFSK_DH5_MCH_2441MHz_Ant1_NTNV



GFSK_DH5_HCH_2480MHz_Ant1_NTNV



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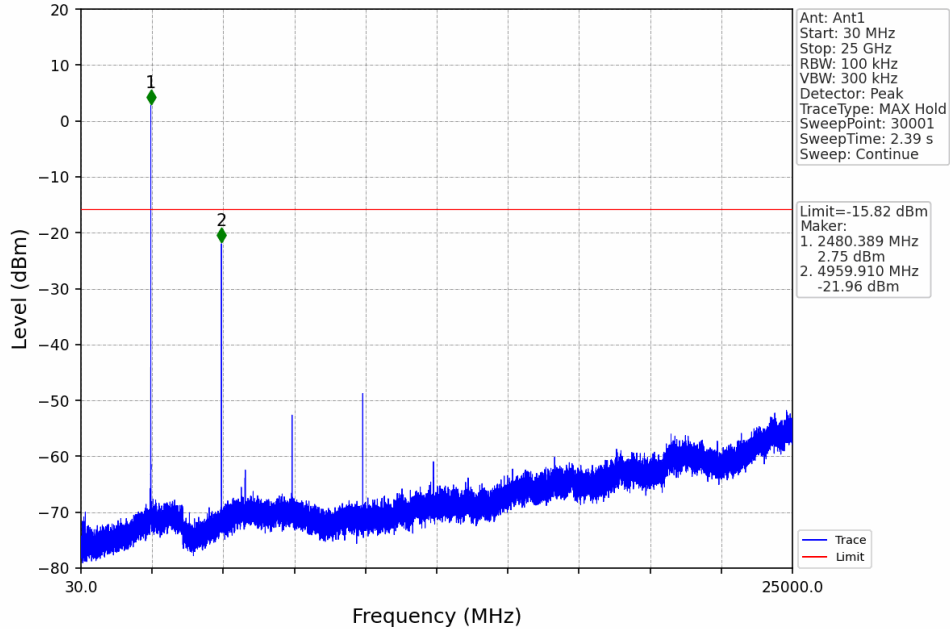
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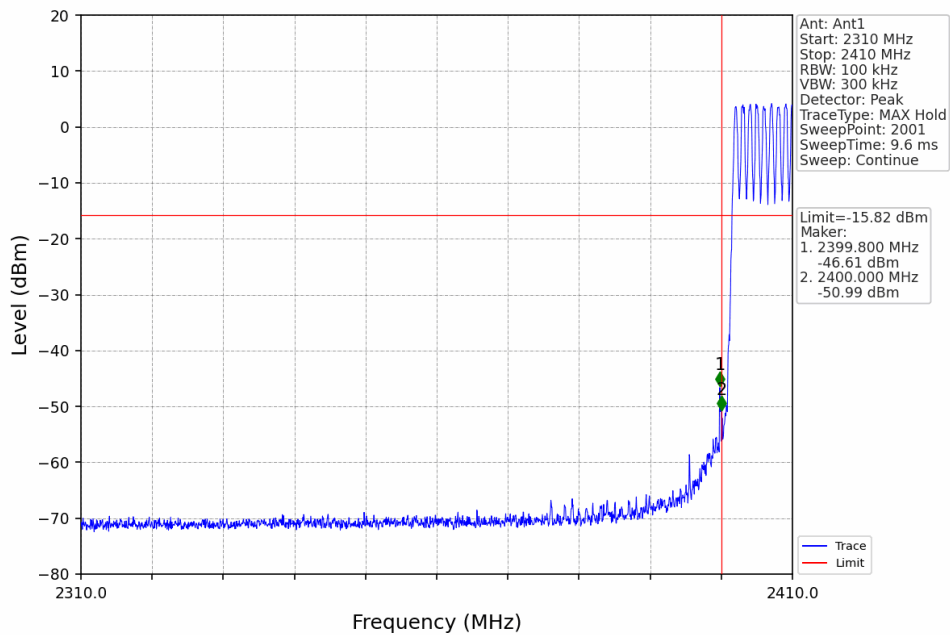
Report No.: FYCR230400006402

Page: 89 of 97

GFSK_DH5_HCH_2480MHz_Ant1_NTNV



GFSK_DH5_HOPP_Ant1_NTNV



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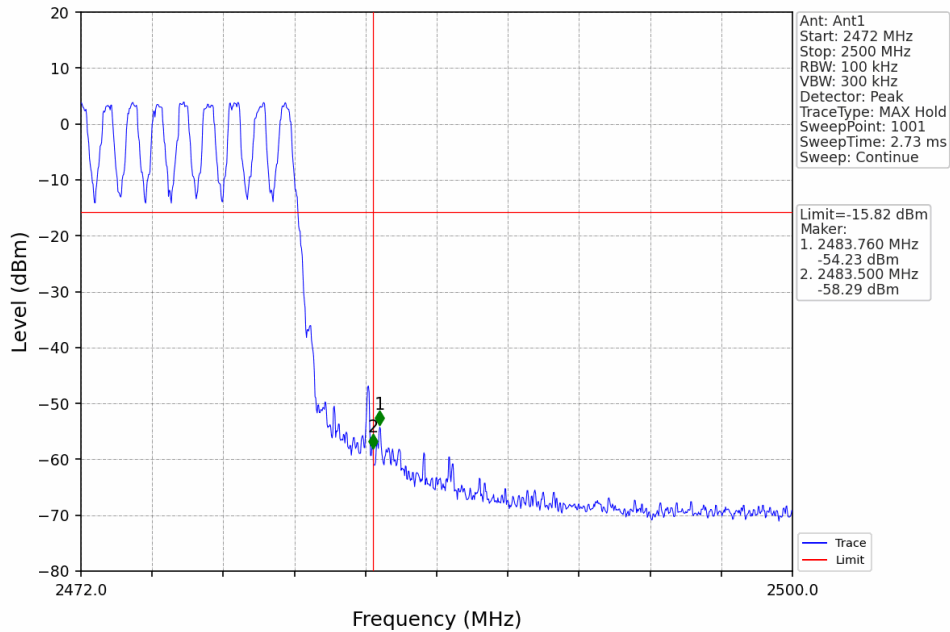
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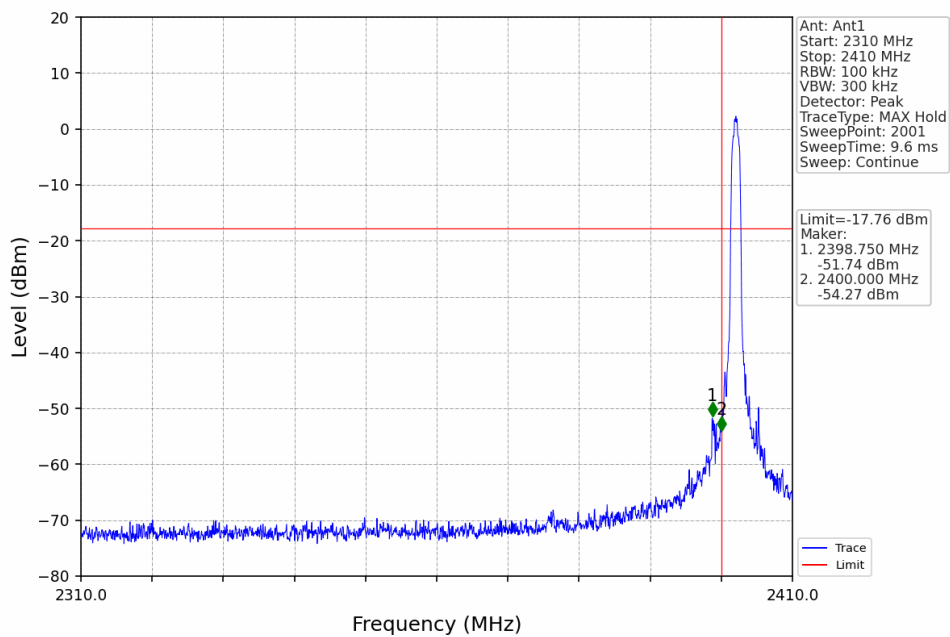
Report No.: FYCR230400006402

Page: 90 of 97

GFSK_DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



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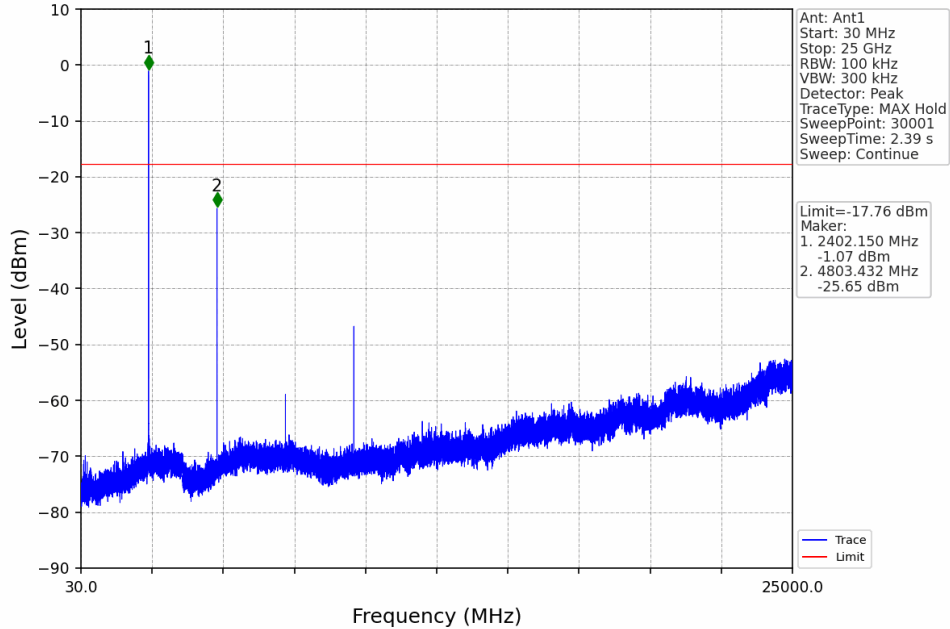
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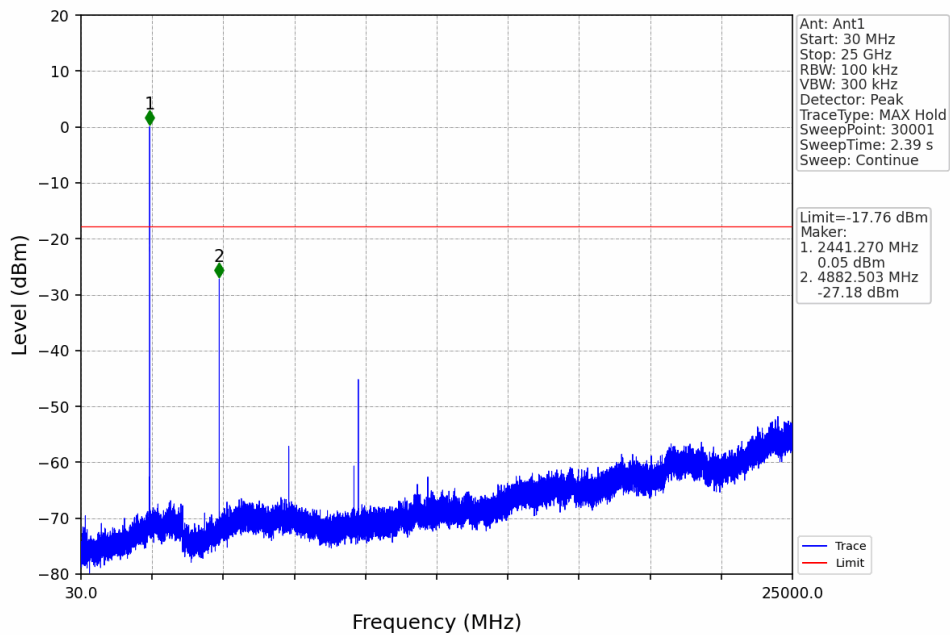
Report No.: FYCR230400006402

Page: 91 of 97

Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant1_NTNV



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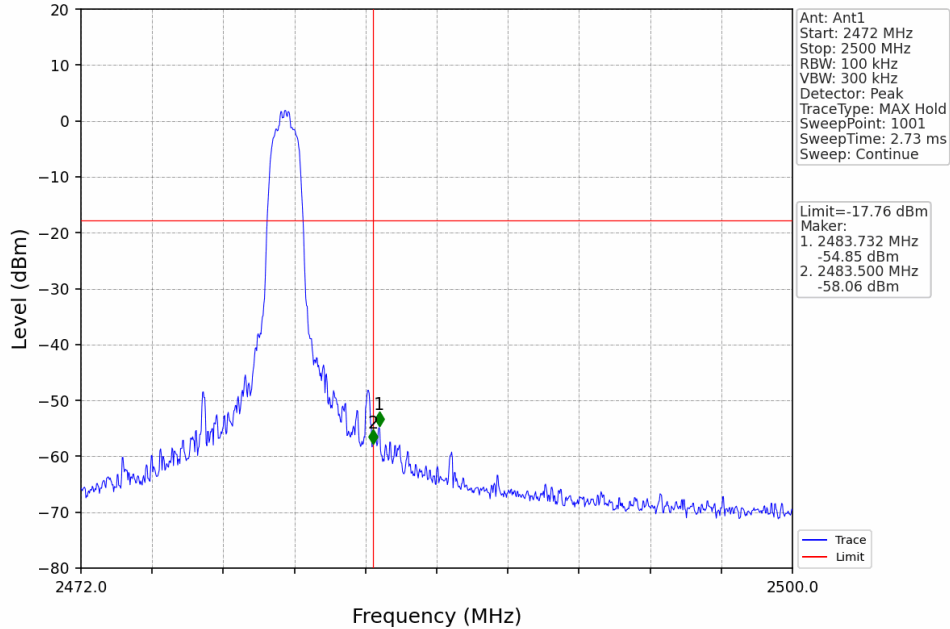
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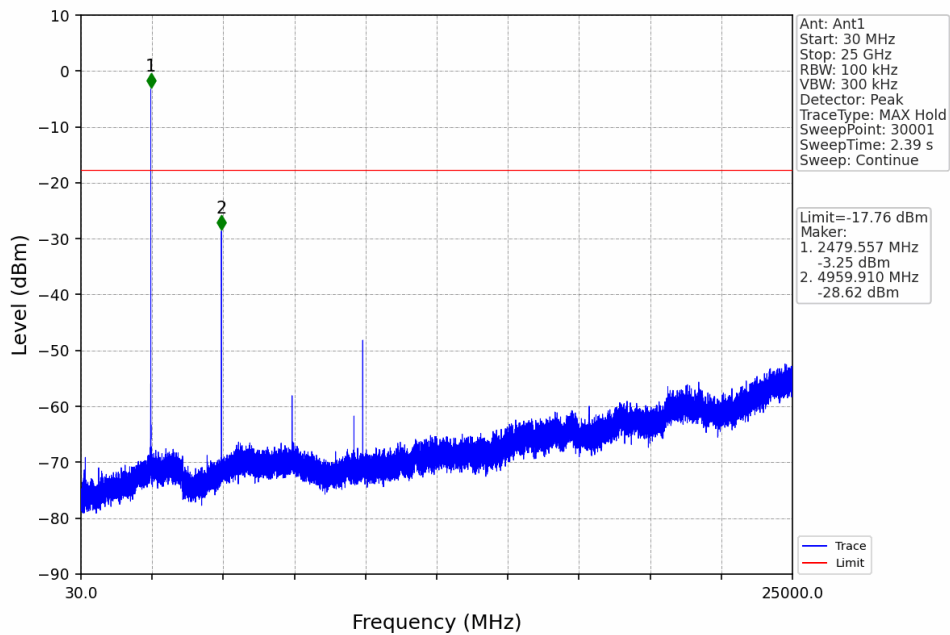
Report No.: FYCR230400006402

Page: 92 of 97

Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



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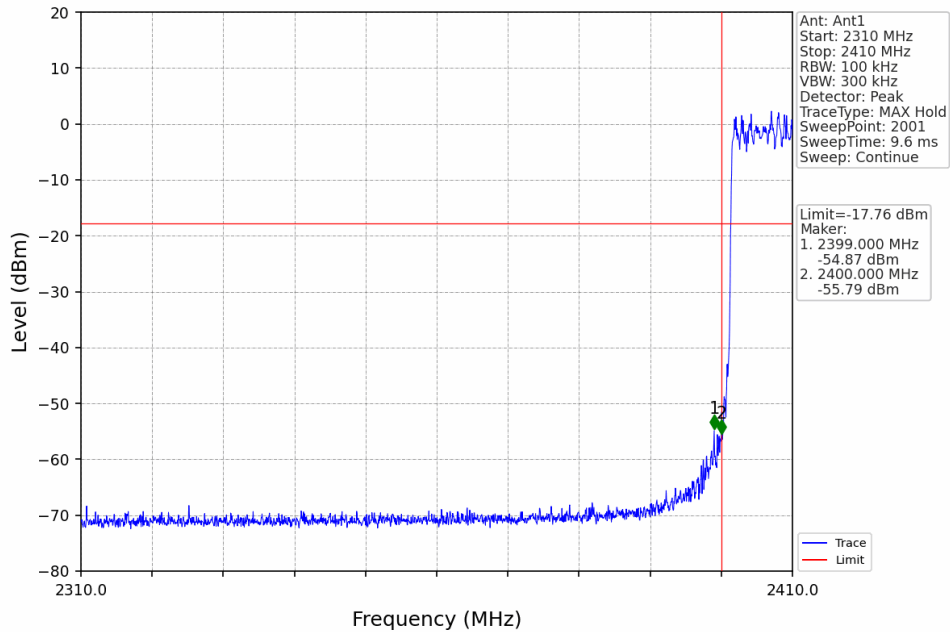
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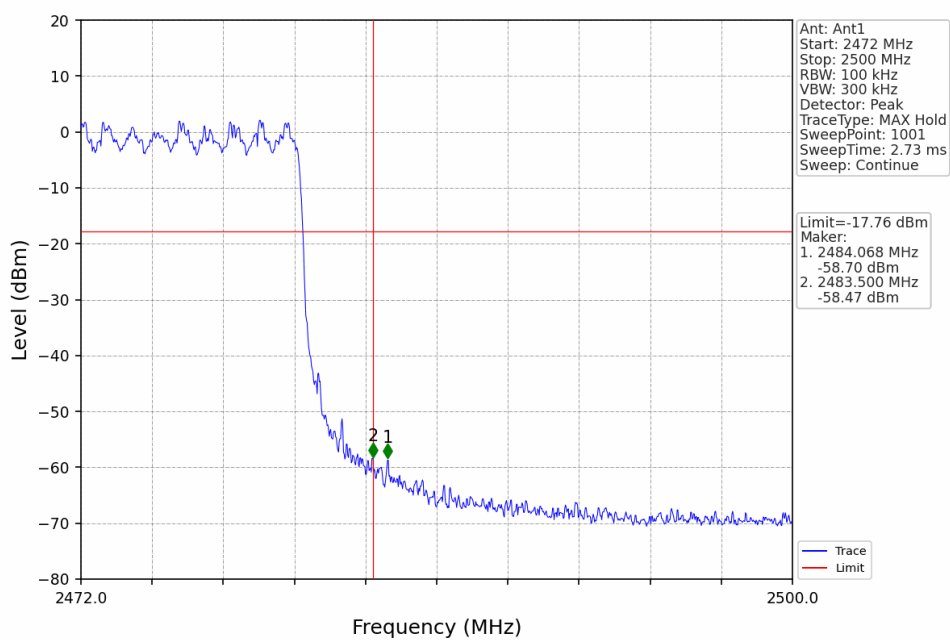
Report No.: FYCR230400006402

Page: 93 of 97

Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



Pi/4DQPSK_2DH5_HOPP_Ant1_NTNV



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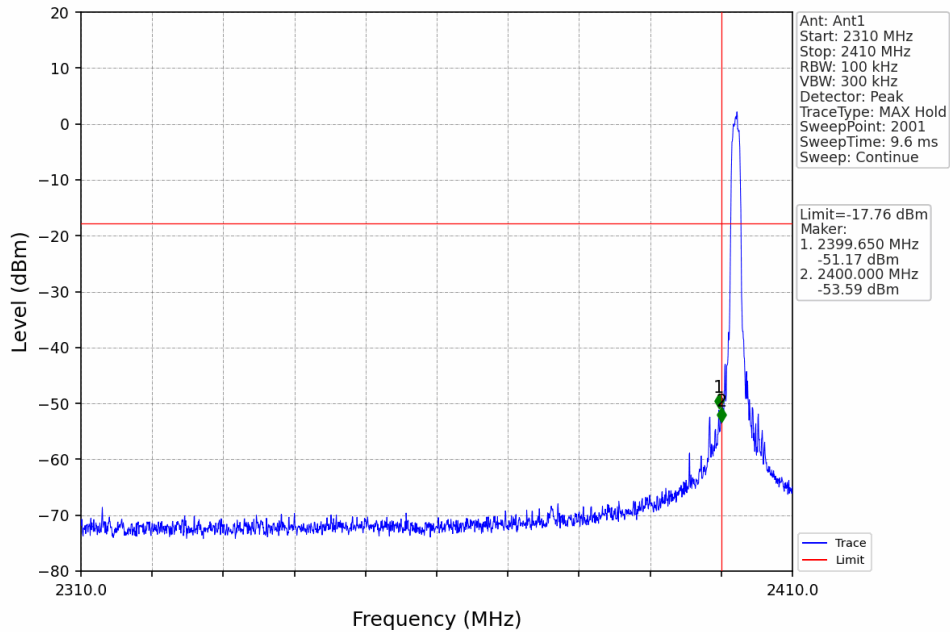
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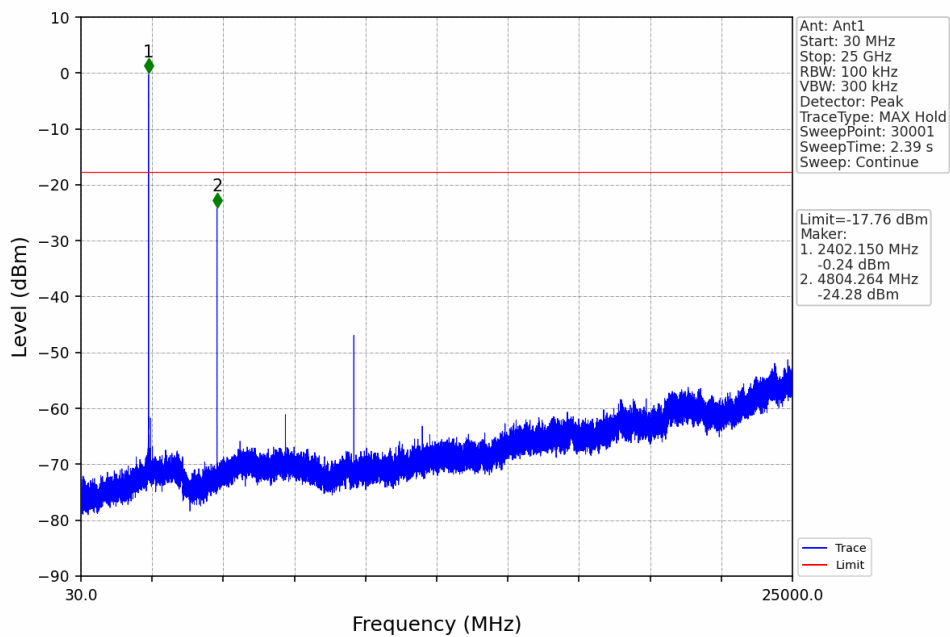
Report No.: FYCR230400006402

Page: 94 of 97

8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



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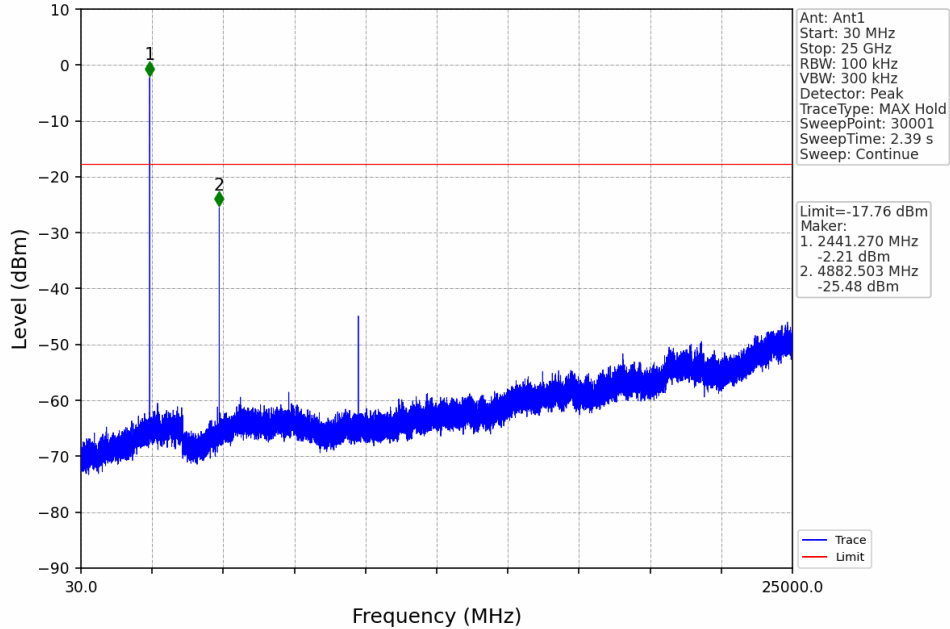
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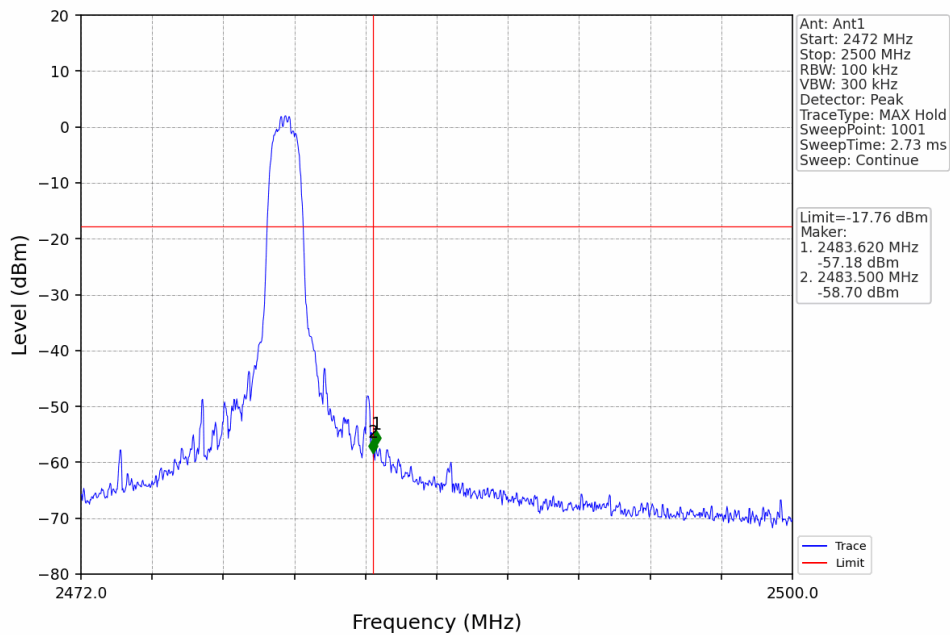
Report No.: FYCR230400006402

Page: 95 of 97

8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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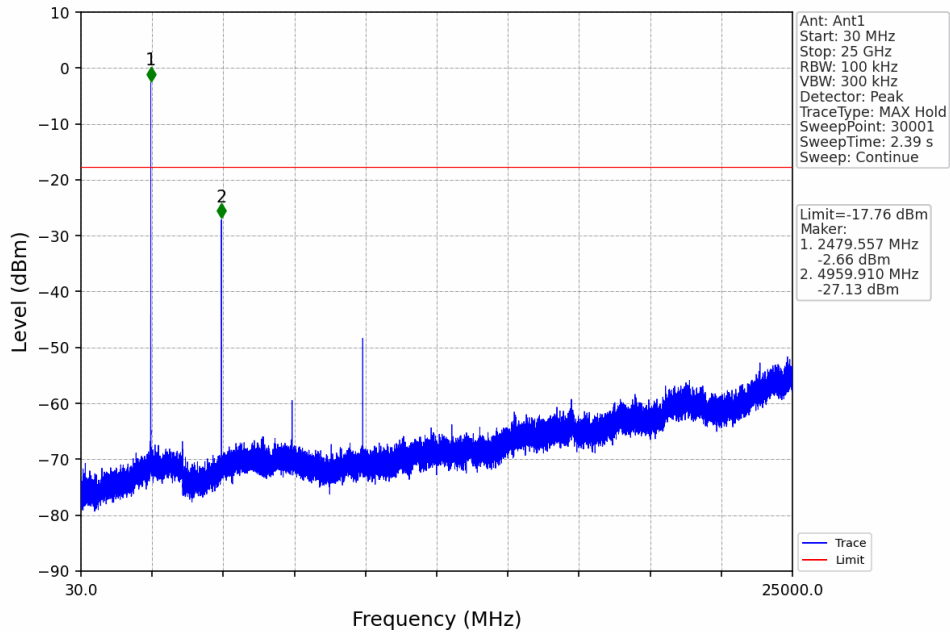
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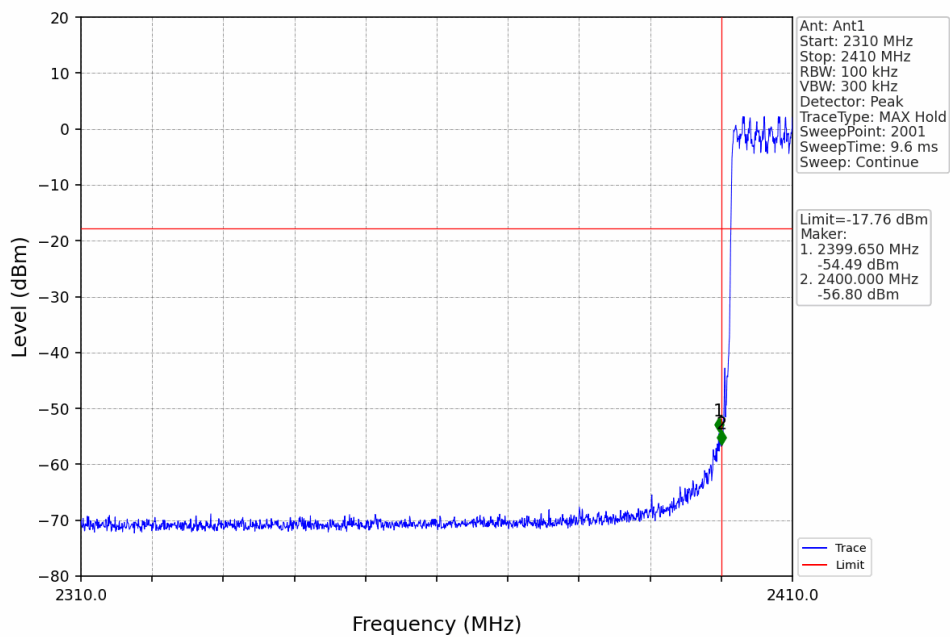
Report No.: FYCR230400006402

Page: 96 of 97

8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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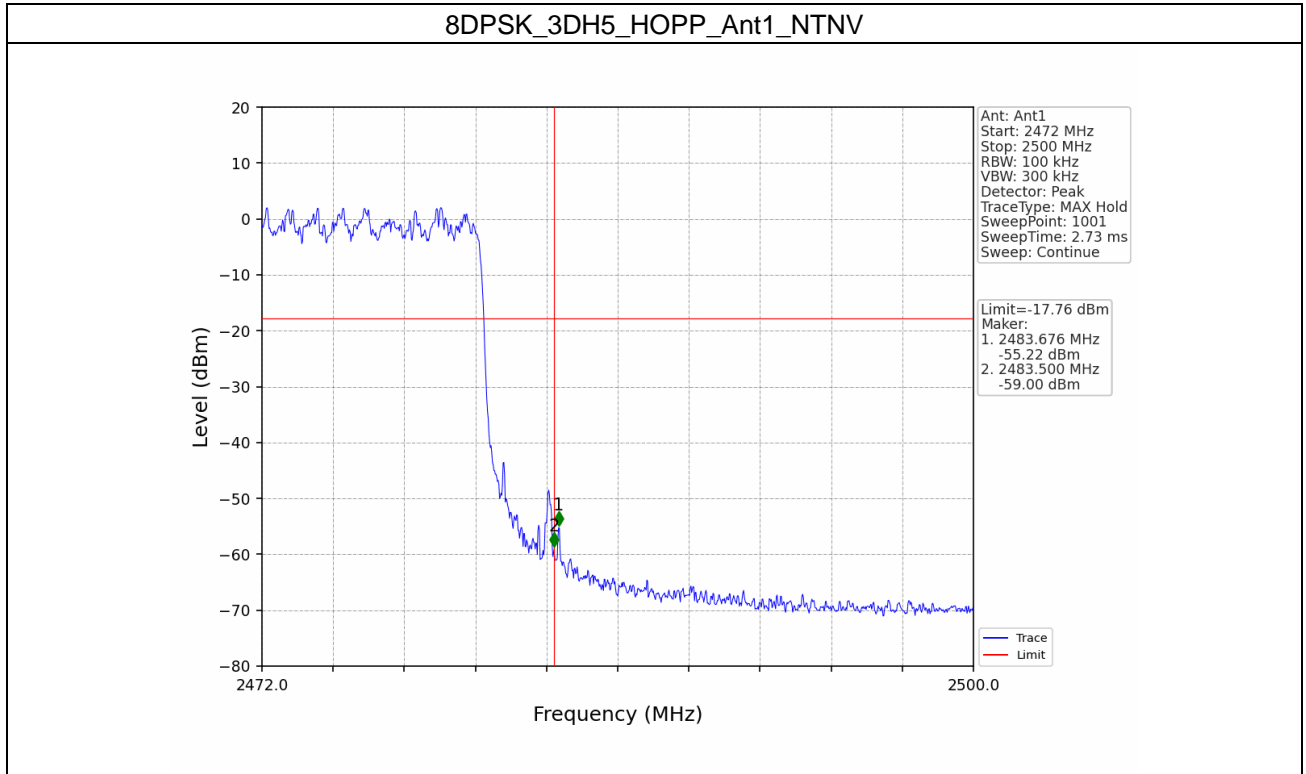
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Page: 97 of 97



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