

TEST REPORT

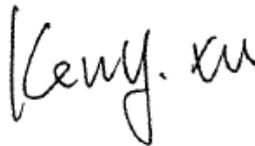
Application No.: SZCR2402000646AT
Applicant: B&W Group Ltd.
Address of Applicant: Dale Road, Worthing, BN11 2BH, United Kingdom
Manufacturer: B&W Group Ltd.
Address of Manufacturer: Dale Road, Worthing, BN11 2BH, United Kingdom
Factory: Merry Electronics (Shenzhen) Co., Ltd. The Second Longhua Branch
Address of Factory: Floor1~5, Building A&B, Merry Industrial Park, Huarong Road, Dalang Street, Longhua New District, 518109 Shenzhen City, Guangdong Province, PEOPLE'S REPUBLIC OF CHINA

Equipment Under Test (EUT):

EUT Name: In-ear True Wireless Earbuds
Model No.: Pi6
Trade Mark: Bowers & Wilkins
FCC ID: 2ACIX-PI6EB
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-02-27
Date of Test: 2024-03-04 to 2024-03-17
Date of Issue: 2024-03-20

Test Result:	Pass*
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* In the configuration tested, the EUT complied with the standards specified above.



Keny Xu
EMC Laboratory Manager



Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2024-03-20		Original

Authorized for issue by:			
		<i>Bill Chen</i>	

		Bill Chen/Project Engineer	
		<i>Eric Fu</i>	

		Eric Fu/Reviewer	



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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 Peak Output Power	47 CFR Part 15, Subpart C 15.247	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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4 General Information

4.1 Details of E.U.T.

Power supply:	Lithium Ion Battery: DC 3.85V 80mAh 0.308Wh rechargeable battery which charged by charging case for left earbud and right earbud
Cable(s):	USB-C charging cable:55cm unshielded
Cable Loss (for RF conducted test):	0.4dB
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.3 Dual mode
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
LDS Antenna	LDS Antenna
Antenna Gain:	Left earbud:-10.1dBi Right earbud:-10.7dBi

Remark:The information in this section is provided by the applicant or manufacturer, SGS 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.

4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
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	± 6.0dB (Below 1GHz);± 4.6dB (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	± 6.0dB for 3m; ± 5.0dB for 10m
Radiated Spurious Emissions Above 1GHz	± 4.6dB (1-18GHz);± 4.8dB (18-40GHz)



Remark:

The U_{lab} (lab Uncertainty) is less than $U_{CISPR/ETSI}$ (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.



4.4 Test Location

All tests were performed at:

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

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

Tel: +86 755 2601 2053 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. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.6 Deviation from Standards

None

4.7 Abnormalities from Standard Conditions

None



5 Equipment List

Conducted Peak Output Power					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2023-04-01	2024-03-31
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2023-03-21	2024-03-20
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

20dB Bandwidth					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Carrier Frequencies Separation					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30



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Hopping Channel Number					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Dwell Time					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Conducted Band Edges Measurement					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30

Conducted Spurious Emissions					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2023-10-19	2024-10-18
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2023-03-21	2024-03-20
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2023-07-07	2024-07-06
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2023-03-31	2024-03-30



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Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06
Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
10m Semi-Anechoic Chamber	SAEMC	FSAC1018	SEM001-03	2021-03-27	2024-03-26
MXE EMI receiver	KEYSIGHT	N9038A	SEM004-16	2023-10-19	2024-10-18
Trilog-Broadband Antenna	Schwarzbeck	VULB9168	SEM003-18	2023-09-23	2025-09-22
Pre-amplifier	Sonoma Instrument Co	310N	SEM005-04	2023-03-31	2024-03-30
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM029-01	2023-07-07	2024-07-06

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
3m Fully-Anechoic Chamber	AUDIX	N/A	SEM001-02	2023-04-01	2026-03-31
Signal Analyzer	Rohde & Schwarz	FSV40	SEM008-04	2023-03-20	2024-03-19
Horn Antenna	Rohde&Schwarz	HF907	SEM003-07	2023-07-23	2025-07-22
Microwave system amplifier	Agilent	83017A	SEM005-25	2023-09-19	2024-09-18
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM026-01	2023-07-07	2024-07-06



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Broad-Band Horn Antenna	Schwarzbeck	BBHA 9170	SEM003-15	2022-08-10	2024-08-09
Pre-Amplifier	Compliance Directions Systems Inc.	PAP-2640-50	SEM005-08	2023-03-20	2024-03-19

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2023-07-28	2024-07-27
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2023-07-28	2024-07-27
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2023-03-23	2024-03-22



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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

15.203 requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbud:-10.1dBi, Right earbud:-10.7dBi.

Antenna location: 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)

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 frequency system.



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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 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: $\leq 20.97\text{dBm}$

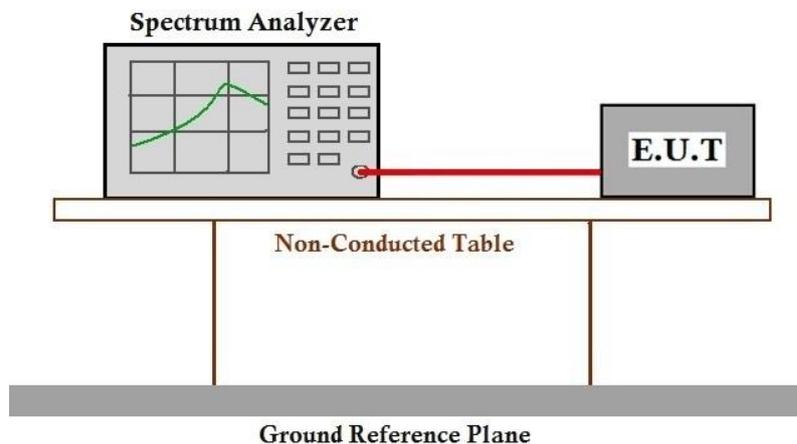
7.1.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 34.5 % 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(Left earbud)_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	02	TX_non-Hop mode(Right earbud)_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.

7.1.3 Test Setup Diagram



7.1.4 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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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

7.2 20dB Bandwidth

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

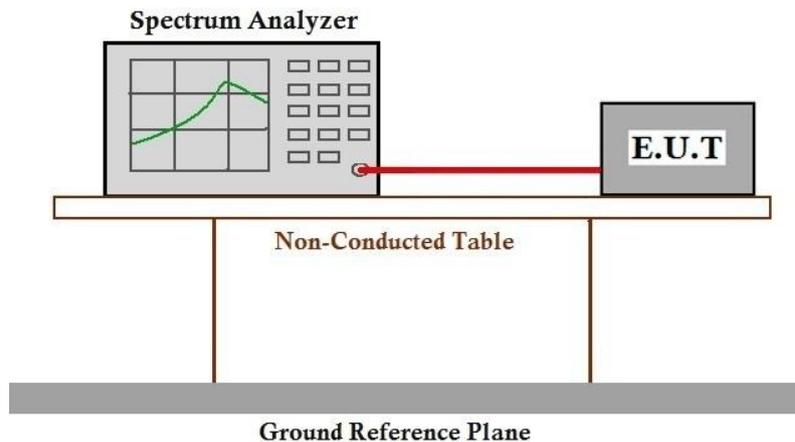
7.2.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 34.5 % 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(Left earbud)_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	02	TX_non-Hop mode(Right earbud)_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.

7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

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7.3 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.

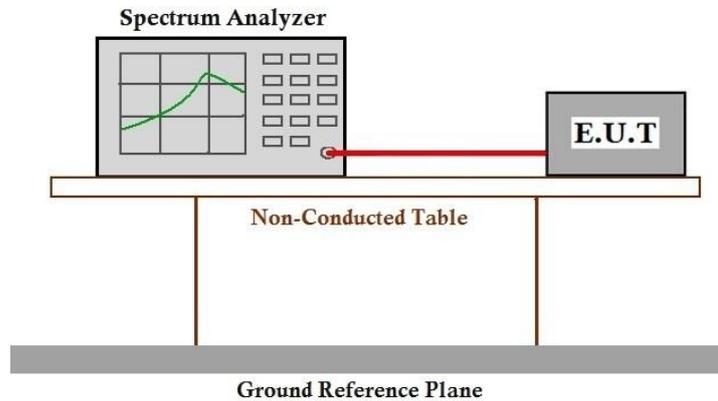
7.3.1 E.U.T. Operation

Operating Environment:
 Temperature: 23.6 °C Humidity: 34.5 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode(Left earbud)_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.
Final test	03	TX_Hop mode(Right earbud)_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.

7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

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7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 34.5 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

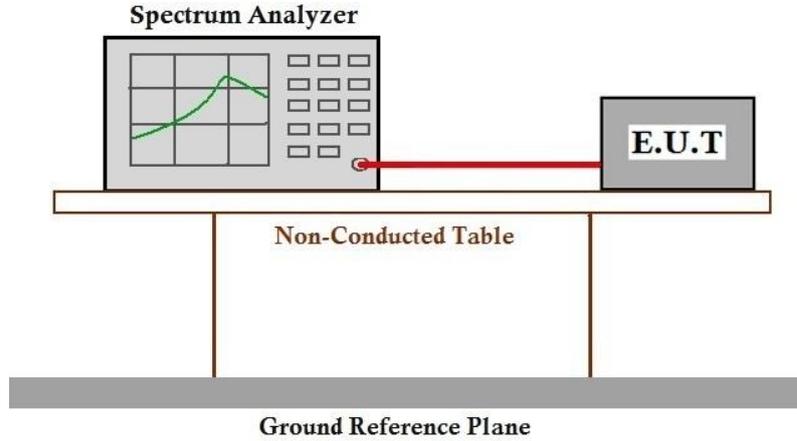
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode(Left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX_Hop mode(Right earbud)_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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7.4.3 Test Setup Diagram



7.4.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.5 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

7.5.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 34.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 Test Mode Description

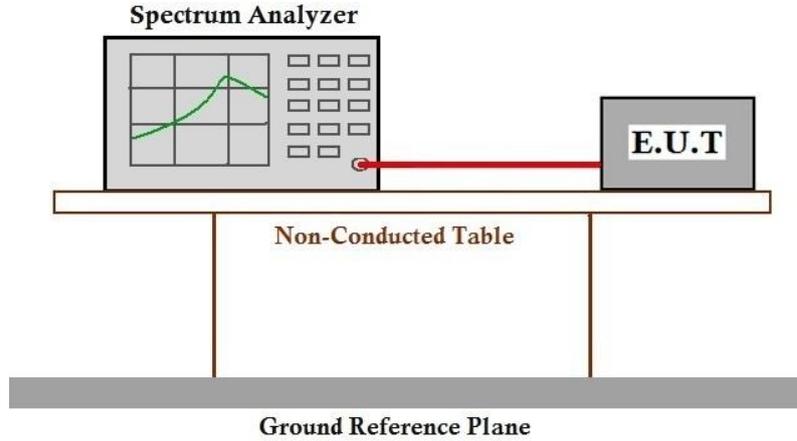
Pre-scan / Final test	Mode Code	Description
Final test	01	TX_Hop mode(Left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX_Hop mode(Right earbud)_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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7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.6 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)).

7.6.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 34.5 % RH Atmospheric Pressure: 1020 mbar

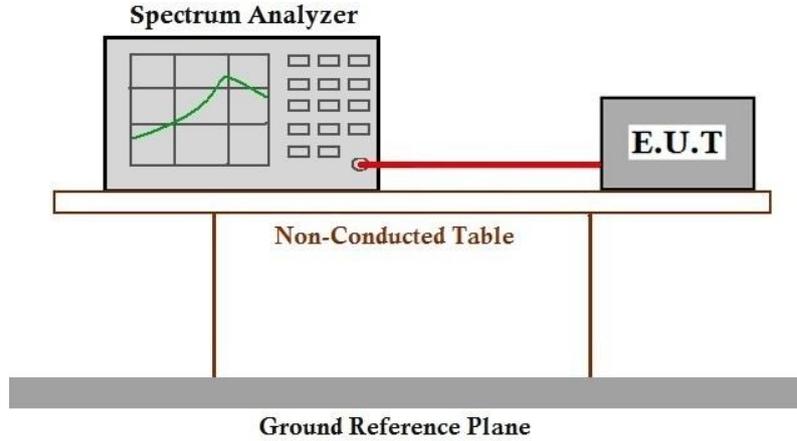
7.6.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_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(Left earbud)_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.
Final test	02	TX_non-Hop mode(Right earbud)_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	03	TX_Hop mode(Right earbud)_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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7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.7 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)).

7.7.1 E.U.T. Operation

Operating Environment:

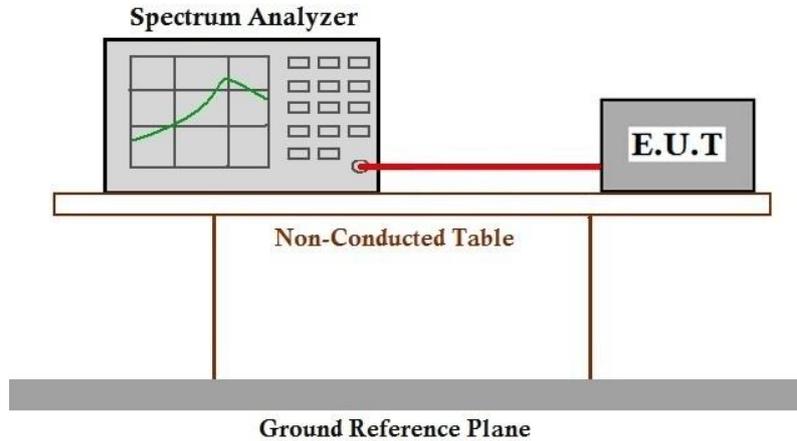
Temperature: 23.6 °C Humidity: 34.5 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_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	02	TX_non-Hop mode(Right earbud)_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.



7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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.

7.8.1 E.U.T. Operation

Operating Environment:

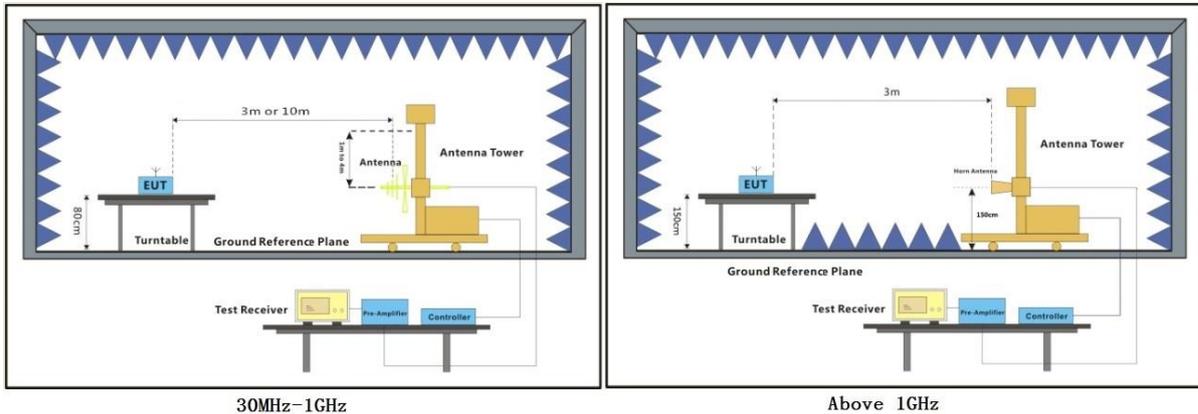
Temperature: 20.2 °C Humidity: 52.6 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_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	02	TX_non-Hop mode(Right earbud)_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

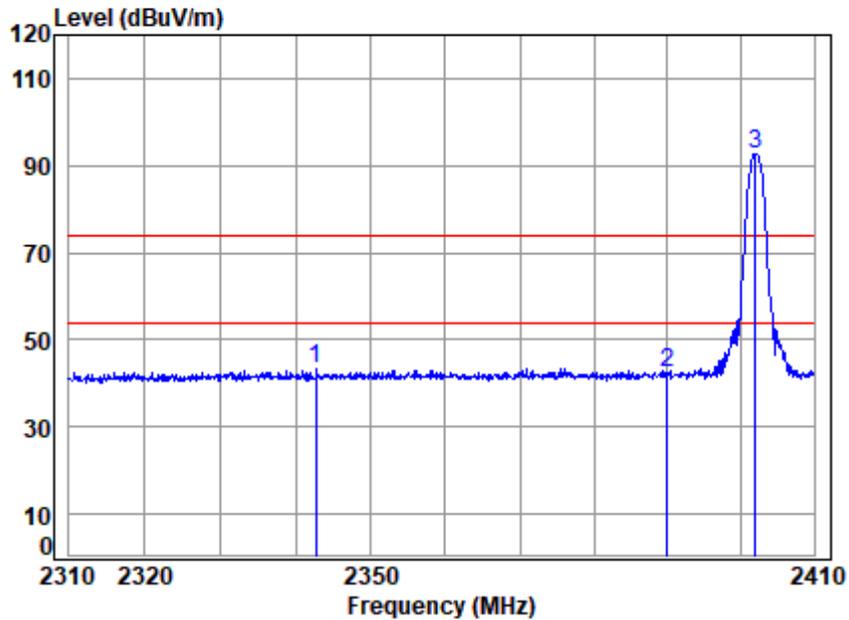
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters 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 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: 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.



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

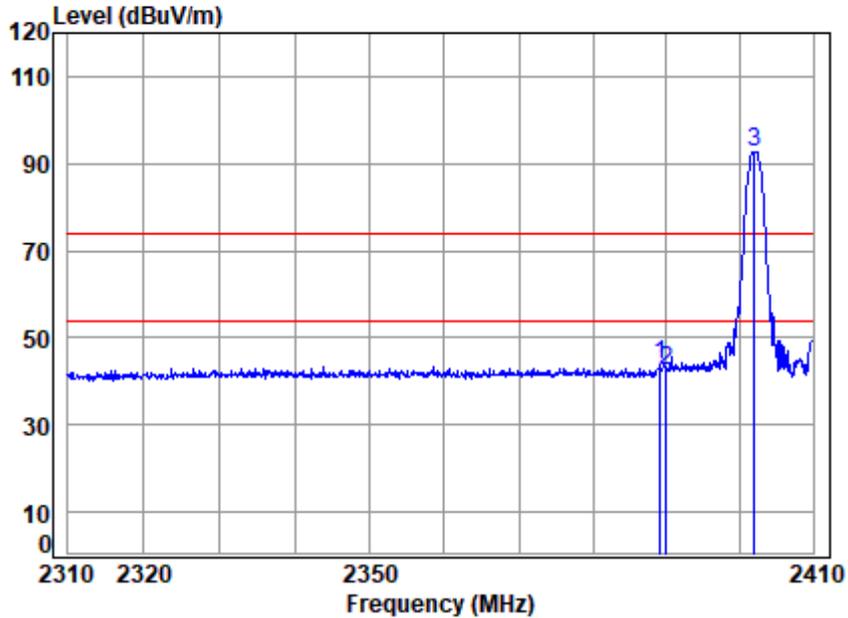


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2402 Band edge
 Note : BT

	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	2342.731	5.03	29.00	37.55	47.08	43.56	74.00	-30.44	peak
2	2390.000	5.08	29.10	37.44	45.85	42.59	74.00	-31.41	peak
3 p	2402.000	5.09	29.09	37.41	95.81	92.58	74.00	18.58	peak



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2402 Band edge
 Note : BT

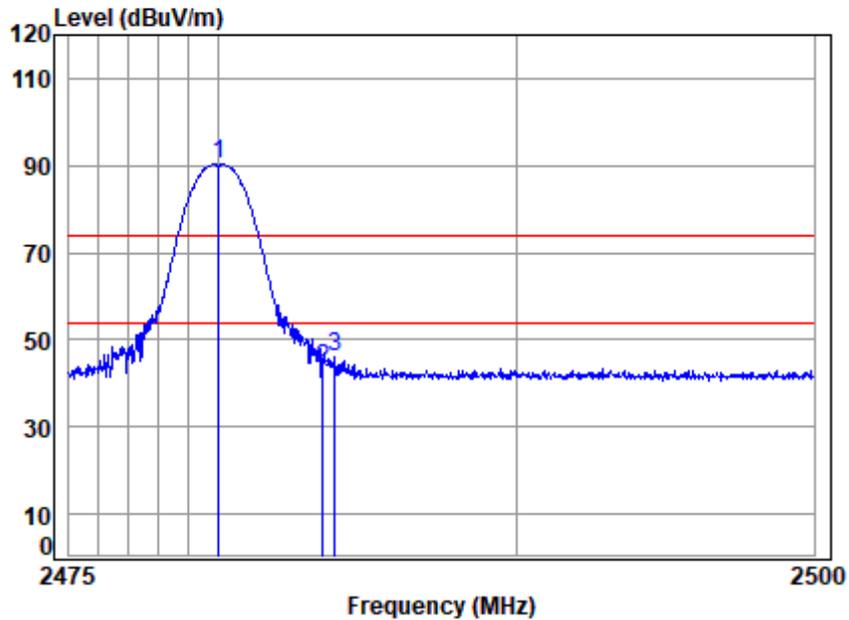
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.153	5.07	29.10	37.44	46.99	43.72	74.00	-30.28	peak
2	2390.000	5.08	29.10	37.44	45.83	42.57	74.00	-31.43	peak
3 p	2402.000	5.09	29.09	37.41	96.01	92.78	74.00	18.78	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2480 Band edge
 Note : BT

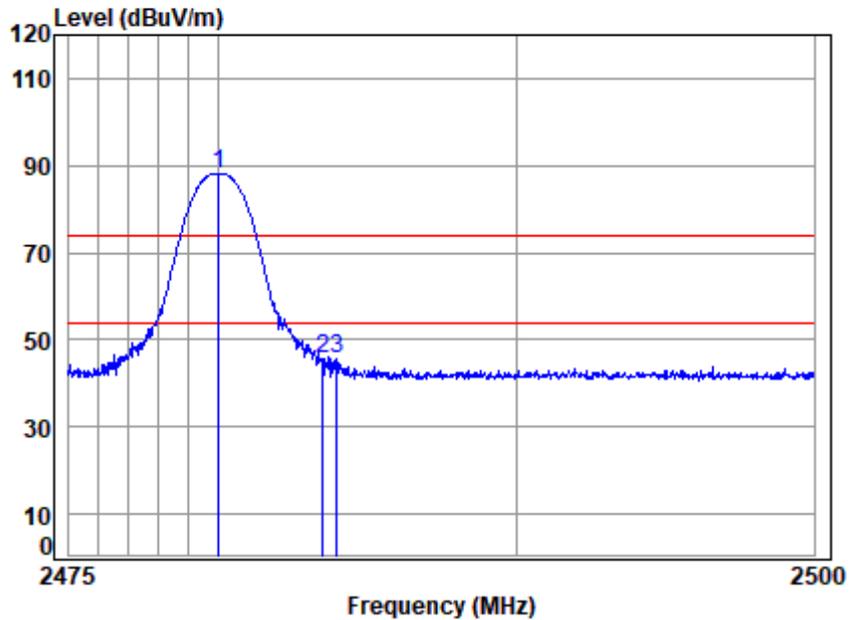
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 p	2480.000	5.16	28.90	37.22	93.33	90.17	74.00	16.17	peak
2	2483.500	5.16	28.90	37.22	46.69	43.53	74.00	-30.47	peak
3	2483.896	5.16	28.90	37.22	49.42	46.26	74.00	-27.74	peak



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



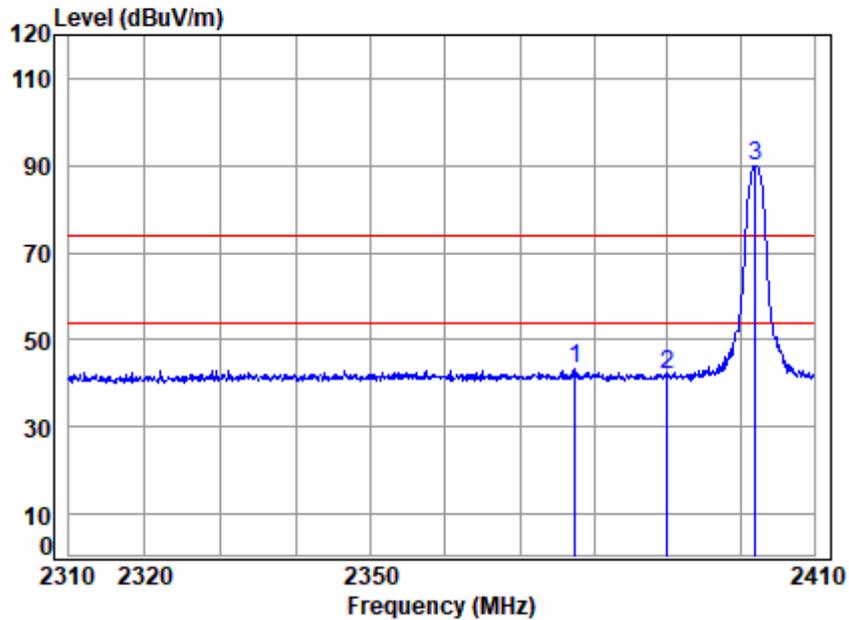
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2480 Band edge
 Note : BT

	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 p	2480.000	5.16	28.90	37.22	91.25	88.09	74.00	14.09	peak
2	2483.500	5.16	28.90	37.22	48.74	45.58	74.00	-28.42	peak
3	2483.946	5.16	28.90	37.22	48.67	45.51	74.00	-28.49	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low

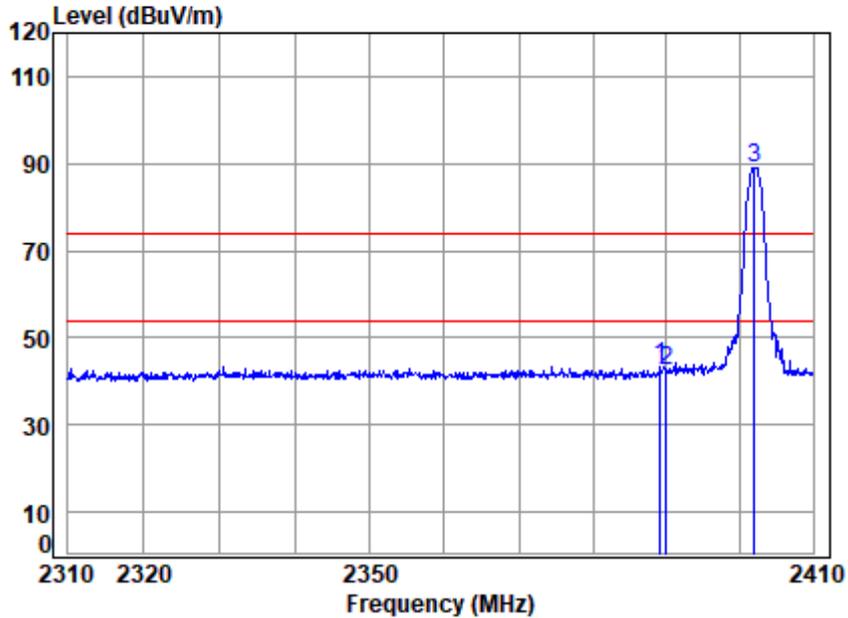


Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2402 Band edge
 Note : BT

	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	2377.538	5.06	29.10	37.46	46.80	43.50	74.00	-30.50	peak
2	2390.000	5.08	29.10	37.44	45.12	41.86	74.00	-32.14	peak
3 p	2402.000	5.09	29.09	37.41	93.11	89.88	74.00	15.88	peak



Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2402 Band edge
 Note : BT

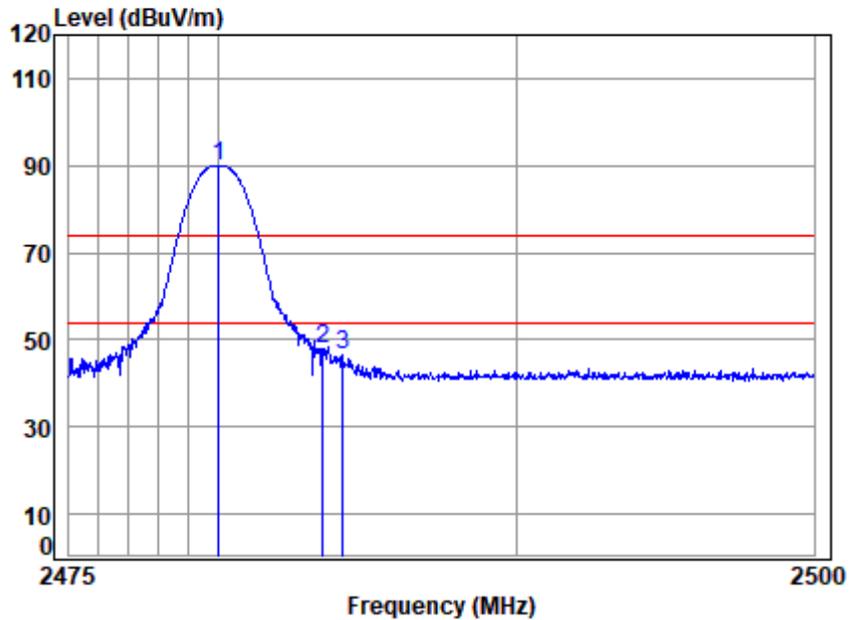
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2389.153	5.07	29.10	37.44	46.79	43.52	74.00	-30.48	peak
2	2390.000	5.08	29.10	37.44	45.66	42.40	74.00	-31.60	peak
3	p 2402.000	5.09	29.09	37.41	92.23	89.00	74.00	15.00	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



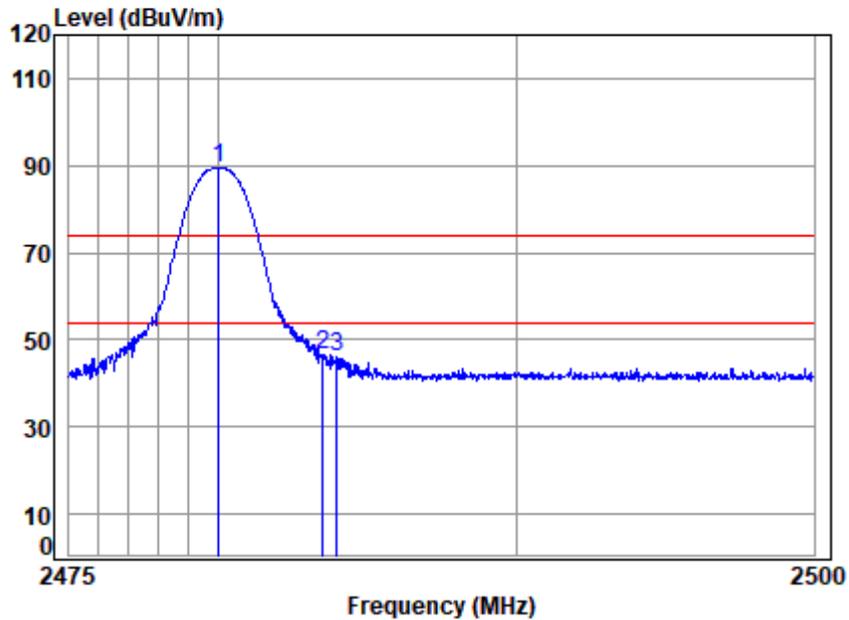
Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2480 Band edge
 Note : BT

	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 p	2480.000	5.16	28.90	37.22	92.99	89.83	74.00	15.83	peak
2	2483.500	5.16	28.90	37.22	50.90	47.74	74.00	-26.26	peak
3	2484.146	5.16	28.90	37.21	49.92	46.77	74.00	-27.23	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2480 Band edge
 Note : BT

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Limit Level	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB	
1 p	2480.000	5.16	28.90	37.22	92.46	74.00	15.30	peak
2	2483.500	5.16	28.90	37.22	49.79	74.00	-27.37	peak
3	2483.971	5.16	28.90	37.22	49.41	74.00	-27.75	peak



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7.9 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: 10m

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

7.9.1 E.U.T. Operation

Operating Environment:

Temperature: 23.6 °C Humidity: 45.1 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

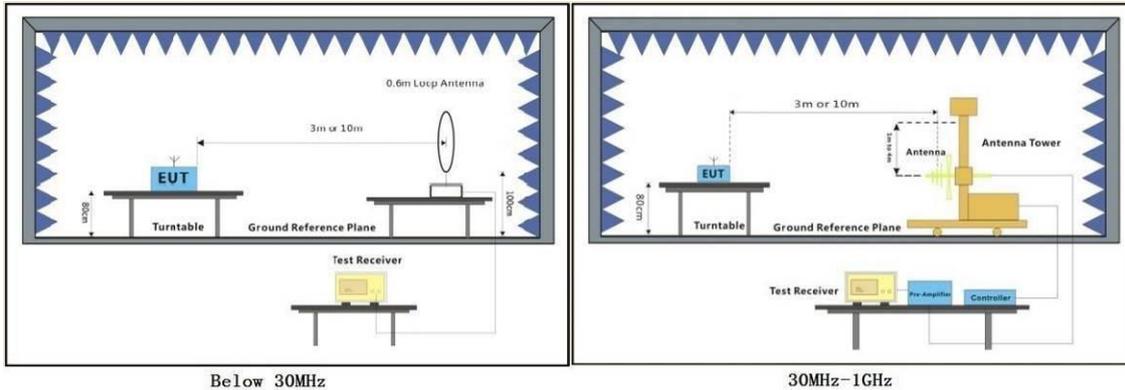
Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_non-Hop mode(Right earbud)_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

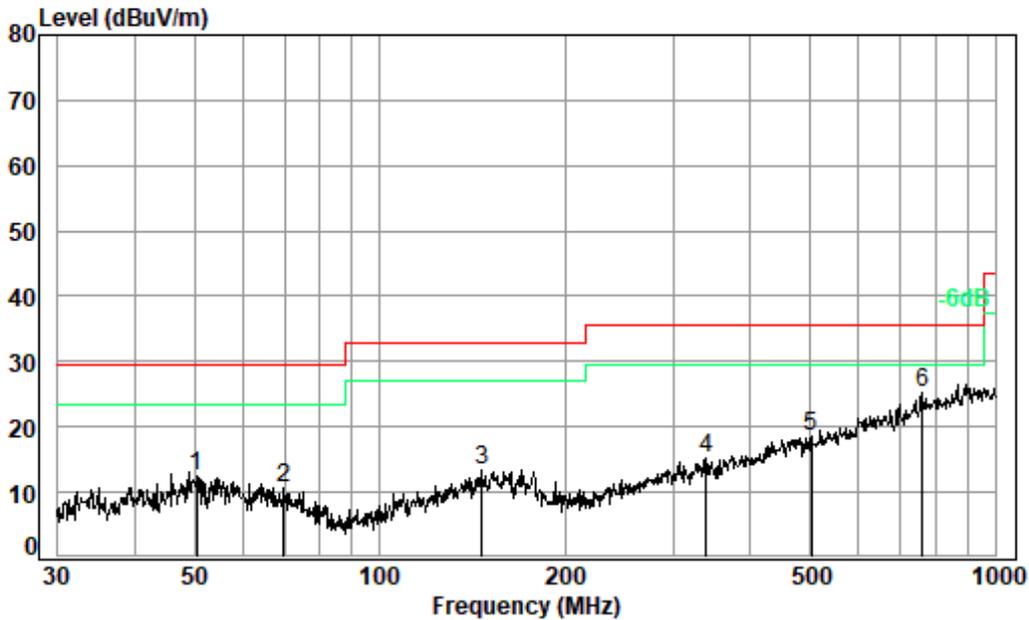
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 10 meters away from the interference-receiving antenna, which was 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 quasi-peak 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:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- 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.



Test Mode: 00; Polarity: Horizontal



Condition: 10m HORIZONTAL

Job No. : 00646AT

Test Mode: 00

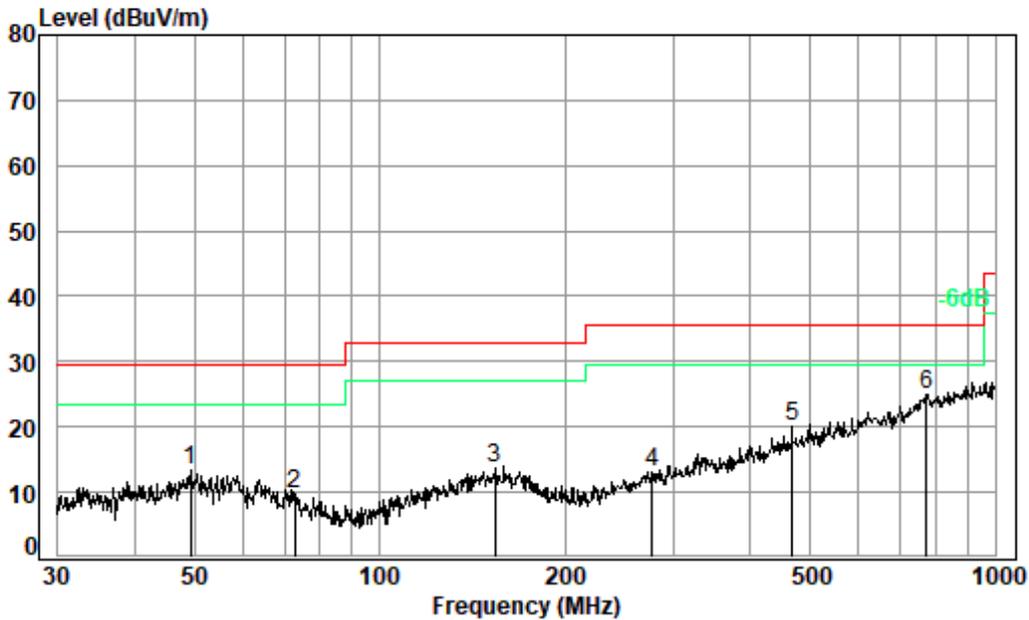
	Read	Ant	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	50.409	26.11	18.23	0.51	32.50	12.35	29.50 -17.15 QP
2	69.845	26.66	15.95	0.60	32.45	10.76	29.50 -18.74 QP
3	146.374	27.31	17.61	0.94	32.40	13.46	33.00 -19.54 QP
4	339.589	27.65	18.46	1.50	32.30	15.31	35.60 -20.29 QP
5	502.940	26.98	21.93	1.83	32.30	18.44	35.60 -17.16 QP
6 pp	760.704	28.70	26.39	2.37	32.11	25.35	35.60 -10.25 QP



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Test Mode: 00; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 00646AT

Test Mode: 00

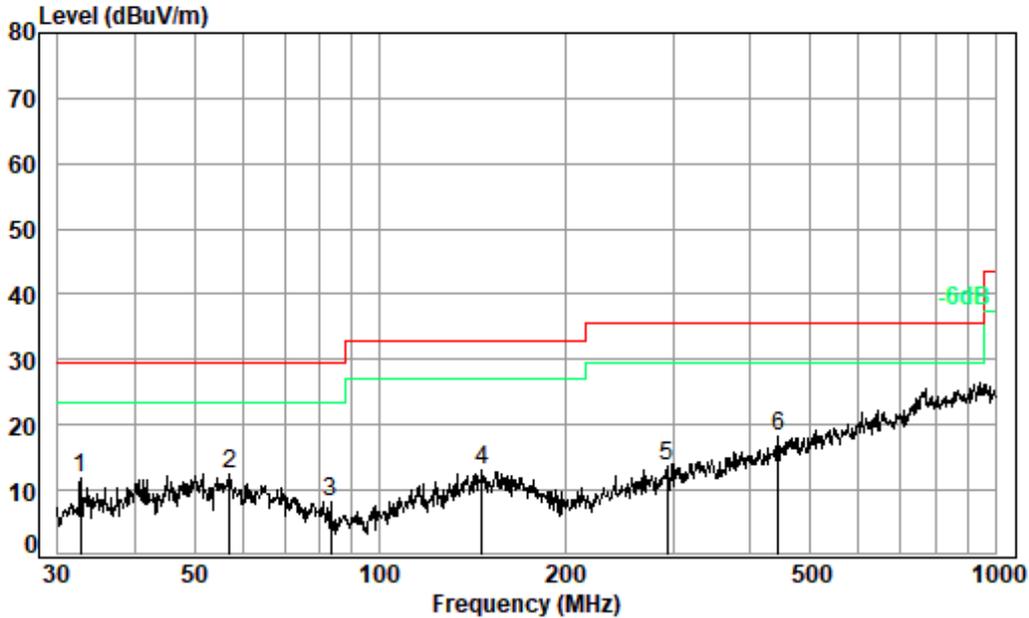
	Read Freq	Ant Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit Line	Over Limit	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	49.359	27.12	18.13	0.51	32.50	13.26	29.50	-16.24	QP
2	72.847	26.50	15.17	0.61	32.45	9.83	29.50	-19.67	QP
3	153.739	27.25	17.91	0.97	32.40	13.73	33.00	-19.27	QP
4	277.094	27.22	16.95	1.35	32.32	13.20	35.60	-22.40	QP
5	467.235	29.05	21.42	1.76	32.30	19.93	35.60	-15.67	QP
6 pp	774.158	28.23	26.45	2.40	32.07	25.01	35.60	-10.59	QP



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Test Mode: 02; Polarity: Horizontal



Condition: 10m HORIZONTAL

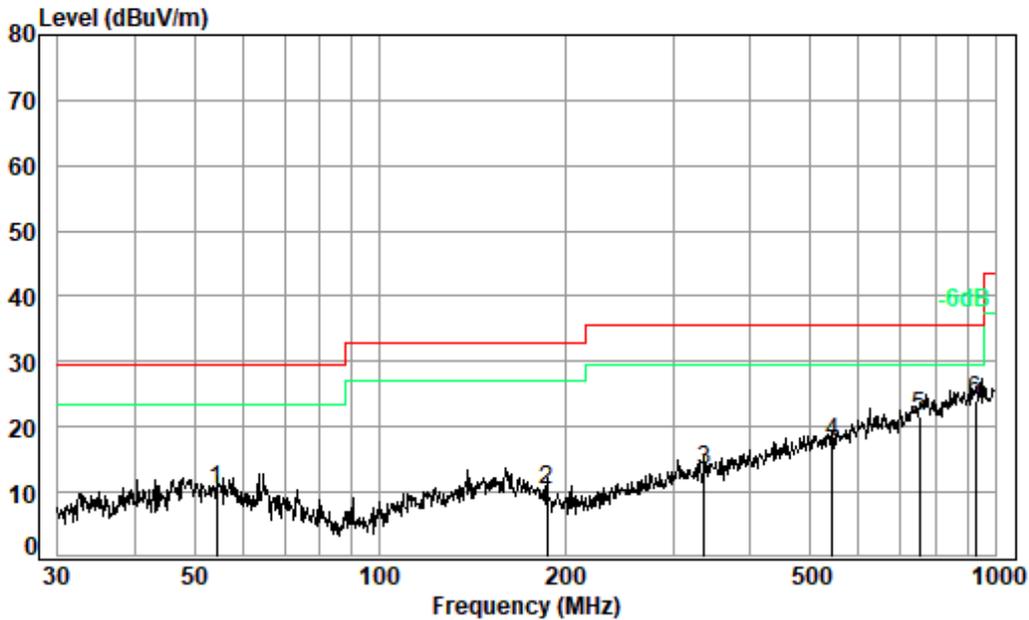
Job No. : 00646AT

Test Mode: 02

	Read Freq	Ant Level	Ant Factor	Cable Loss	Preamp Factor	Level	Limit	Over	Remark
	MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB	
1	32.634	28.00	16.07	0.41	32.50	11.98	29.50	-17.52	QP
2 pp	56.991	26.80	17.72	0.54	32.48	12.58	29.50	-16.92	QP
3	83.230	27.58	12.49	0.66	32.43	8.30	29.50	-21.20	QP
4	146.888	26.89	17.64	0.94	32.40	13.07	33.00	-19.93	QP
5	293.084	27.31	17.43	1.39	32.31	13.82	35.60	-21.78	QP
6	444.851	27.81	21.03	1.72	32.30	18.26	35.60	-17.34	QP



Test Mode: 02; Polarity: Vertical



Condition: 10m VERTICAL

Job No. : 00646AT

Test Mode: 02

	Read	Ant	Cable	Preamp	Limit	Over	
Freq	Level	Factor	Loss	Factor	Level	Line	Limit Remark
MHz	dBuV	dB/m	dB	dB	dBuV/m	dBuV/m	dB
1	54.261	24.25	18.03	0.53	32.49	10.32	29.50 -19.18 QP
2	187.096	26.50	15.03	1.08	32.40	10.21	33.00 -22.79 QP
3	337.216	25.68	18.48	1.50	32.30	13.36	35.60 -22.24 QP
4	543.274	25.38	22.61	1.94	32.35	17.58	35.60 -18.02 QP
5	752.743	25.01	26.44	2.36	32.14	21.67	35.60 -13.93 QP
6 pp	929.008	24.97	27.89	2.63	31.34	24.15	35.60 -11.45 QP



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The test was performed at a 10m test site. According to below formulate and the test data at 10m test distance,

$$L_3 / L_{10} = D_{10} / D_3$$

Note:

L₃: Level @ 3m distance. Unit: uV/m;

L₁₀: Level @ 10m distance. Unit: uV/m;

D₃: 3m distance. Unit: m

D₁₀: 10m distance. Unit: m

The level at 3m test distance is below:

Test Mode: 00

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
50.409	12.35	4.14	13.82	22.81	40.00	-17.19	H
69.845	10.76	3.45	11.50	21.22	40.00	-18.78	H
146.374	13.46	4.71	15.70	23.92	43.50	-19.58	H
339.589	15.31	5.83	19.43	25.77	46.00	-20.23	H
502.94	18.44	8.36	27.85	28.90	46.00	-17.10	H
760.704	25.35	18.51	61.71	35.81	46.00	-10.19	H
49.359	13.26	4.60	15.34	23.72	40.00	-16.28	V
72.847	9.83	3.10	10.34	20.29	40.00	-19.71	V
153.739	13.73	4.86	16.19	24.19	43.50	-19.31	V
277.094	13.2	4.57	15.24	23.66	46.00	-22.34	V
467.235	19.93	9.92	33.07	30.39	46.00	-15.61	V
774.158	25.01	17.80	59.34	35.47	46.00	-10.53	V



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Test Mode: 02

Frequency (MHz)	Level @ 10m (dBuV/m)	Level @ 10m (uV/m)	Level @ 3m (uV/m)	Level @ 3m (dBuV/m)	Limit @ 3m (dBuV/m)	Margin (dB)	Ant. Polarization
32.634	11.98	3.97	13.24	22.44	40.00	-17.56	H
56.991	12.58	4.26	14.19	23.04	40.00	-16.96	H
83.23	8.3	2.60	8.67	18.76	40.00	-21.24	H
146.888	13.07	4.50	15.01	23.53	43.50	-19.97	H
293.084	13.82	4.91	16.36	24.28	46.00	-21.72	H
444.851	18.26	8.18	27.28	28.72	46.00	-17.28	H
54.261	10.32	3.28	10.94	20.78	40.00	-19.22	V
187.096	10.21	3.24	10.80	20.67	43.50	-22.83	V
337.216	13.36	4.66	15.52	23.82	46.00	-22.18	V
543.274	17.58	7.57	25.23	28.04	46.00	-17.96	V
752.743	21.67	12.12	40.40	32.13	46.00	-13.87	V
929.008	24.15	16.13	53.75	34.61	46.00	-11.39	V



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7.10 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

7.10.1 E.U.T. Operation

Operating Environment:

Temperature: 20.7 °C

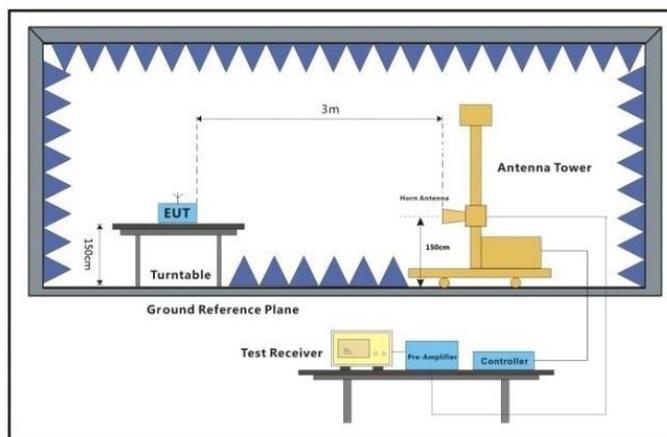
Humidity: 52.8 % RH

Atmospheric Pressure: 1020 mbar

7.10.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_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	02	TX_non-Hop mode(Right earbud)_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.

7.10.3 Test Setup Diagram



Above 1GHz



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7.10.4 Measurement Procedure and Data

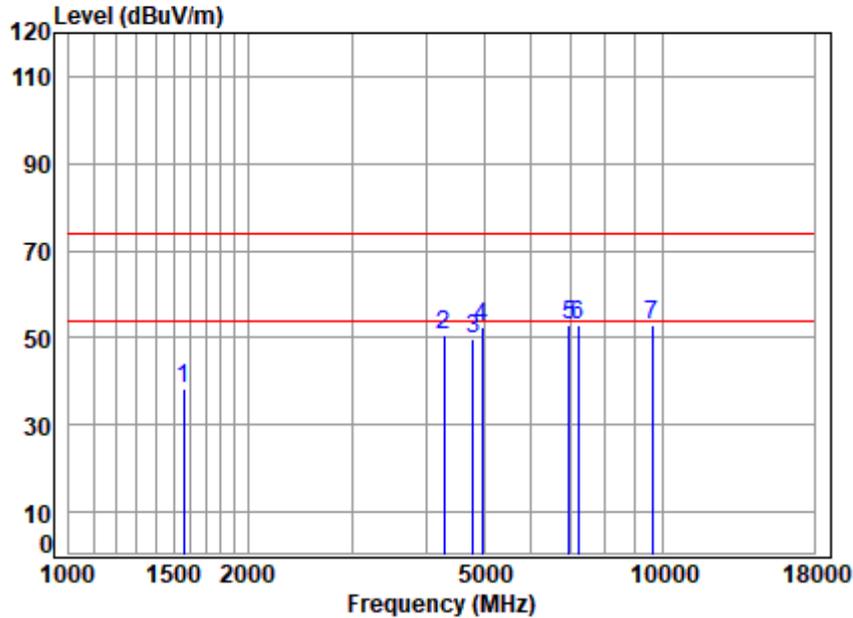
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2402 TX RSE
 : BT

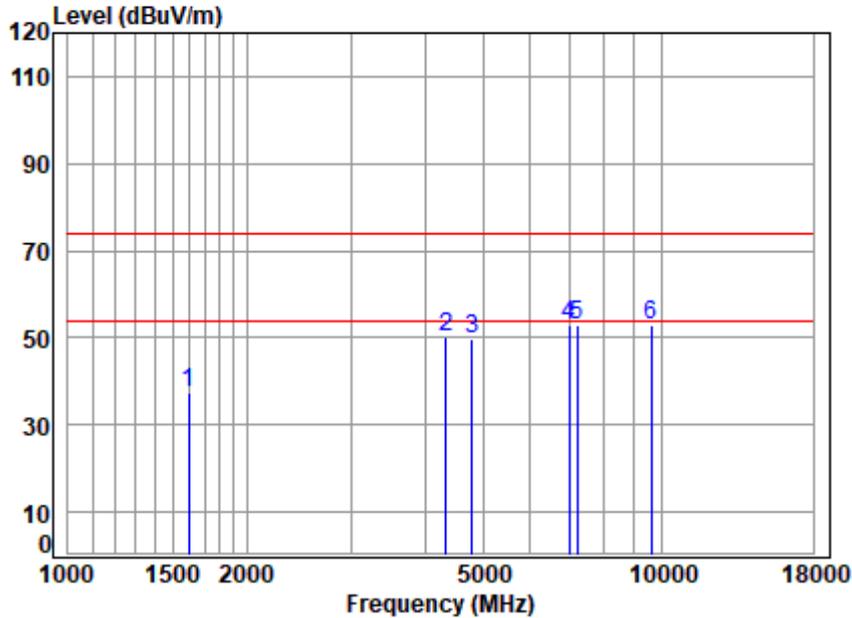
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1560.673	4.15	26.96	38.40	45.45	38.16	74.00	-35.84	peak
2	4291.977	6.99	33.97	35.88	45.64	50.72	74.00	-23.28	peak
3	4804.000	7.31	34.32	35.52	43.76	49.87	74.00	-24.13	peak
4	4959.307	7.41	34.56	35.42	46.03	52.58	54.00	-1.42	Average
5	6954.852	8.89	35.79	35.54	43.80	52.94	74.00	-21.06	peak
6	7206.000	9.18	35.70	35.79	43.72	52.81	74.00	-21.19	peak
7	9608.000	12.36	37.42	37.46	40.42	52.74	74.00	-21.26	peak



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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com

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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2402 TX RSE
 : BT

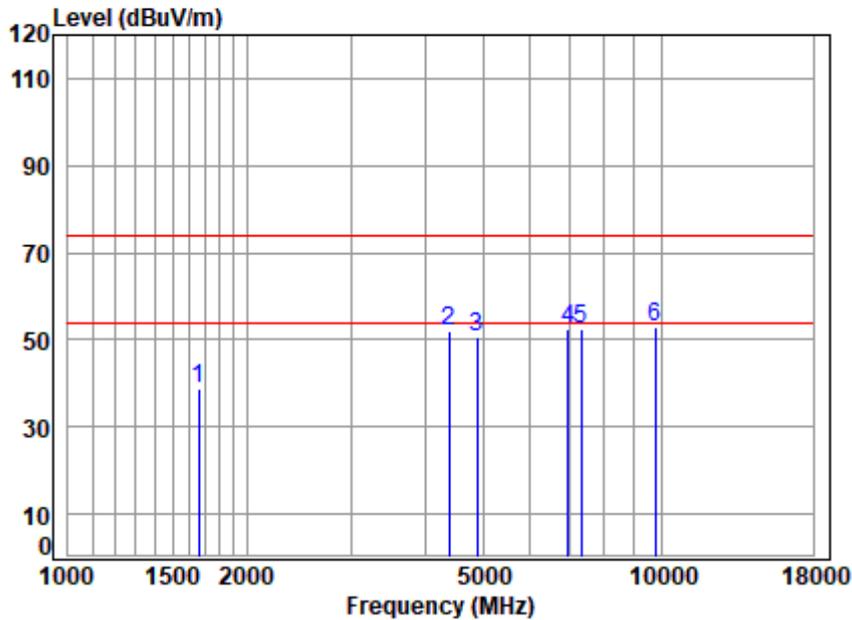
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1597.181	4.20	26.81	38.40	44.60	37.21	74.00	-36.79	peak
2	4329.354	7.01	34.23	35.85	45.01	50.40	74.00	-23.60	peak
3	4804.000	7.31	34.32	35.52	43.48	49.59	74.00	-24.41	peak
4	6995.172	8.92	35.71	35.57	43.69	52.75	74.00	-21.25	peak
5	7206.000	9.18	35.70	35.79	43.68	52.77	74.00	-21.23	peak
6 p	9608.000	12.36	37.42	37.46	40.78	53.10	74.00	-20.90	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2441 TX RSE
 : BT

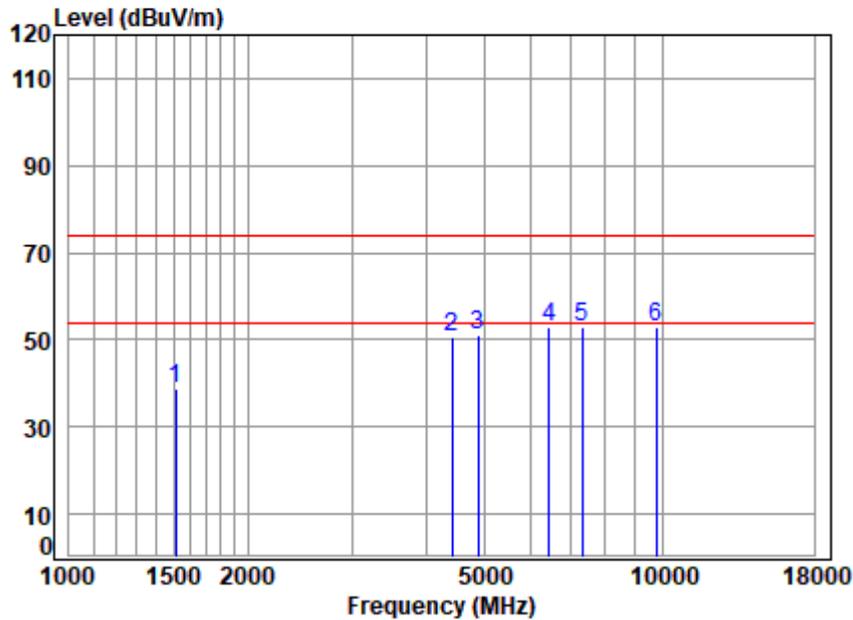
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1663.137	4.28	26.27	38.41	46.42	38.56	74.00	-35.44 peak
2	4392.376	7.05	34.74	35.80	45.83	51.82	74.00	-22.18 peak
3	4882.000	7.36	34.63	35.47	44.15	50.67	74.00	-23.33 peak
4	6954.852	8.89	35.79	35.54	43.47	52.61	74.00	-21.39 peak
5	7323.000	9.32	35.70	35.90	43.50	52.62	74.00	-21.38 peak
6 p	9764.000	12.47	37.37	37.42	40.56	52.98	74.00	-21.02 peak



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2441 TX RSE
 : BT

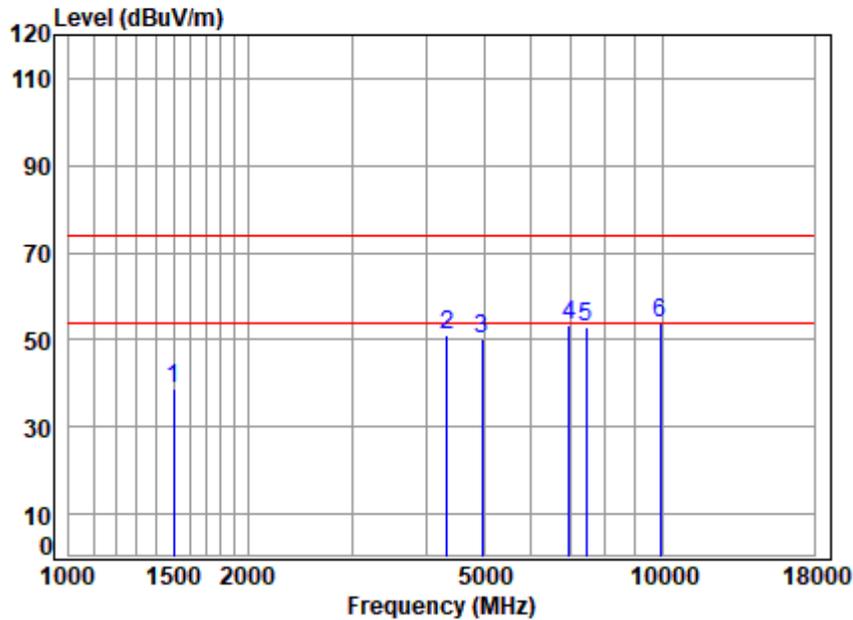
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1511.833	4.08	26.85	38.39	46.15	38.69	74.00	-35.31	peak
2	4417.841	7.07	34.59	35.78	44.72	50.60	74.00	-23.40	peak
3	4882.000	7.36	34.63	35.47	44.53	51.05	74.00	-22.95	peak
4	6432.732	8.51	35.40	35.20	44.13	52.84	74.00	-21.16	peak
5	7323.000	9.32	35.70	35.90	43.83	52.95	74.00	-21.05	peak
6	9764.000	12.47	37.37	37.42	40.49	52.91	74.00	-21.09	peak



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



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2480 TX RSE
 : BT

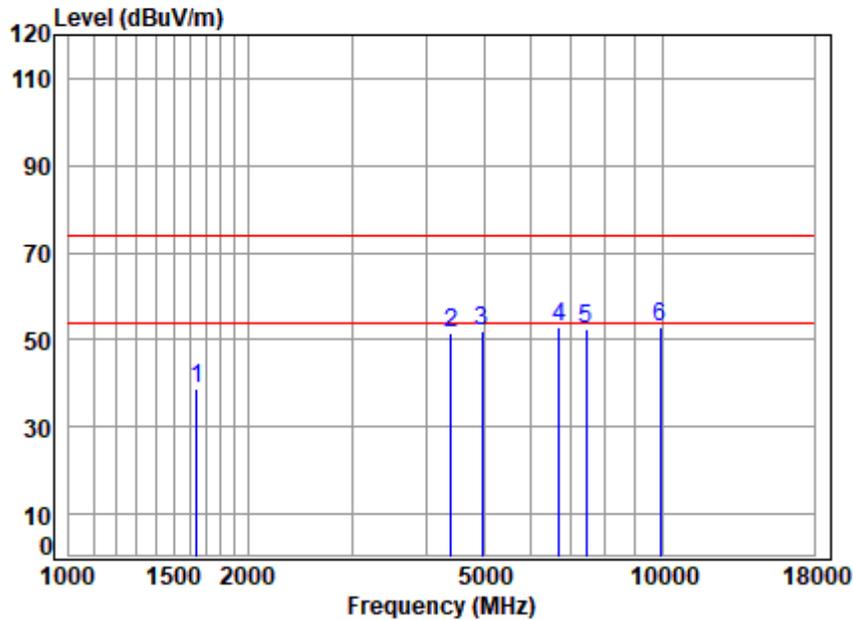
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1503.119	4.07	26.81	38.39	46.18	38.67	74.00	-35.33	peak
2	4329.354	7.01	34.23	35.85	45.74	51.13	74.00	-22.87	peak
3	4960.000	7.41	34.56	35.42	43.81	50.36	74.00	-23.64	peak
4	6954.852	8.89	35.79	35.54	44.19	53.33	74.00	-20.67	peak
5	7440.000	9.46	35.96	36.02	43.59	52.99	74.00	-21.01	peak
6 p	9920.000	12.58	37.30	37.39	41.17	53.66	74.00	-20.34	peak



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



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2480 TX RSE
 : BT

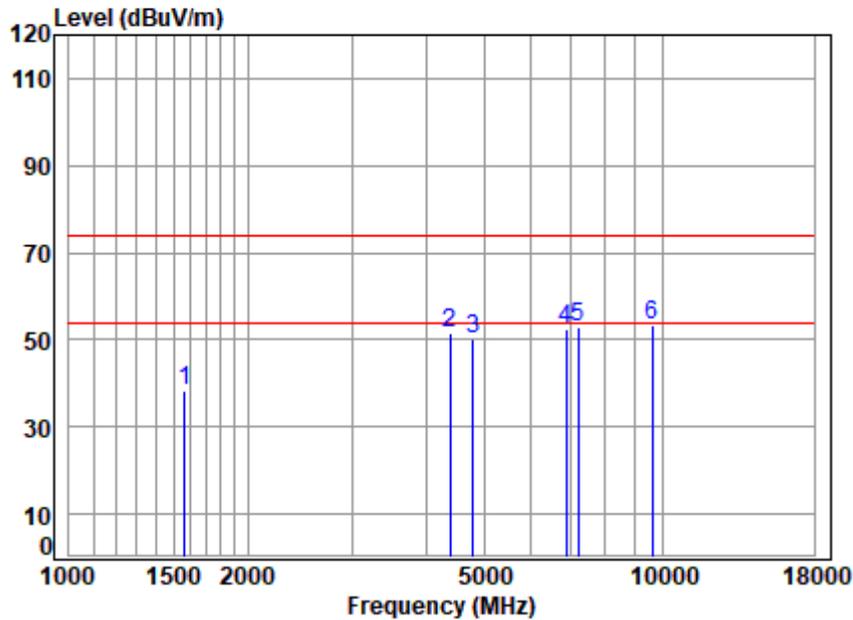
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1639.274	4.25	26.41	38.41	46.59	38.84	74.00	-35.16	peak
2	4405.090	7.06	34.74	35.79	45.68	51.69	74.00	-22.31	peak
3	4960.000	7.41	34.56	35.42	45.53	52.08	74.00	-21.92	peak
4	6698.373	8.71	35.20	35.38	44.22	52.75	74.00	-21.25	peak
5	7440.000	9.46	35.96	36.02	43.30	52.70	74.00	-21.30	peak
6 p	9920.000	12.58	37.30	37.39	40.54	53.03	74.00	-20.97	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2402 TX RSE
 : BT

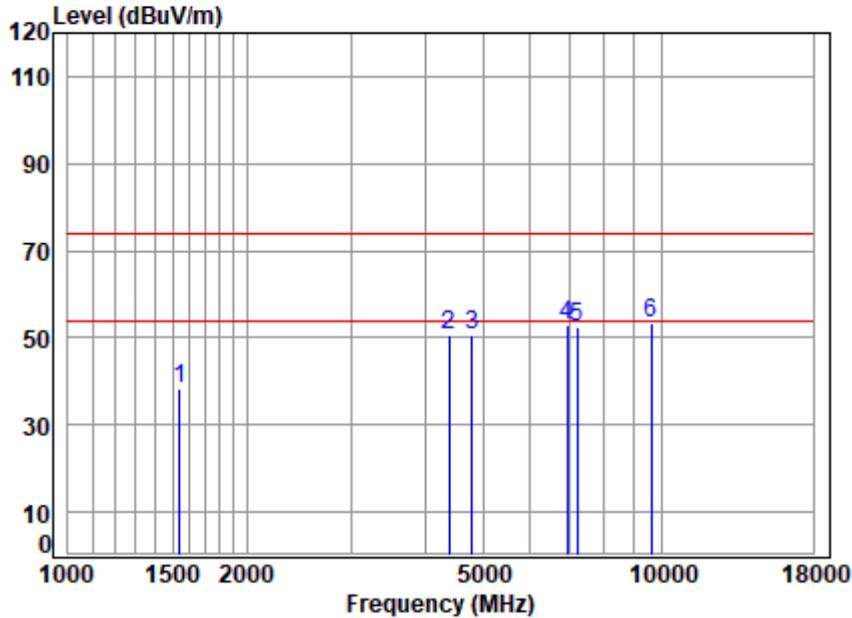
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1569.721	4.16	26.92	38.40	45.55	38.23	74.00	-35.77	peak
2	4392.376	7.05	34.74	35.80	45.55	51.54	74.00	-22.46	peak
3	4804.000	7.31	34.32	35.52	44.20	50.31	74.00	-23.69	peak
4	6874.906	8.83	35.55	35.49	43.38	52.27	74.00	-21.73	peak
5	7206.000	9.18	35.70	35.79	43.67	52.76	74.00	-21.24	peak
6 p	9608.000	12.36	37.42	37.46	41.02	53.34	74.00	-20.66	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:Low



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2402 TX RSE
 : BT

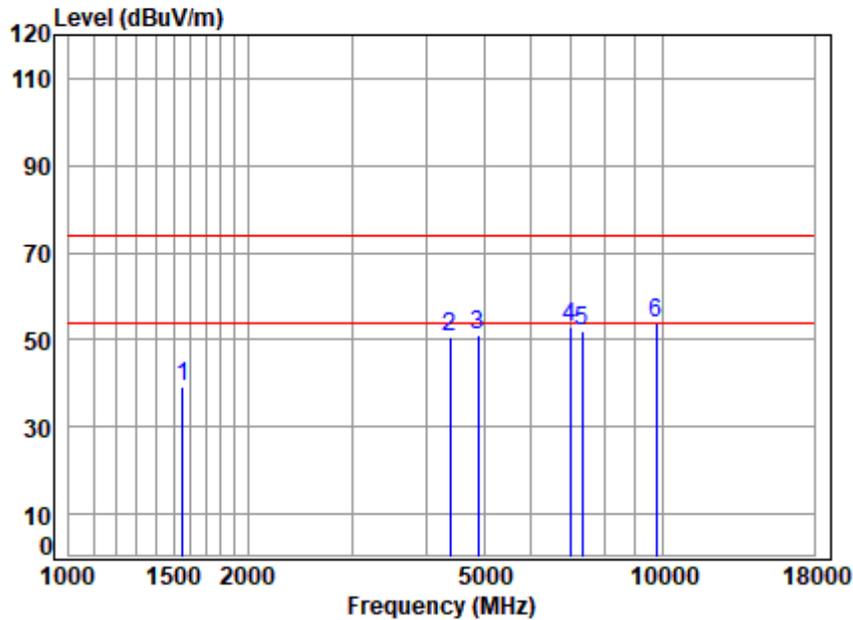
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.12	26.97	38.39	45.84	38.54	74.00	-35.46	peak
2	4392.376	7.05	34.74	35.80	44.70	50.69	74.00	-23.31	peak
3	4804.000	7.31	34.32	35.52	44.70	50.81	74.00	-23.19	peak
4	6934.778	8.87	35.74	35.53	43.97	53.05	74.00	-20.95	peak
5	7206.000	9.18	35.70	35.79	43.36	52.45	74.00	-21.55	peak
6 p	9608.000	12.36	37.42	37.46	40.93	53.25	74.00	-20.75	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:middle



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2441 TX RSE
 : BT

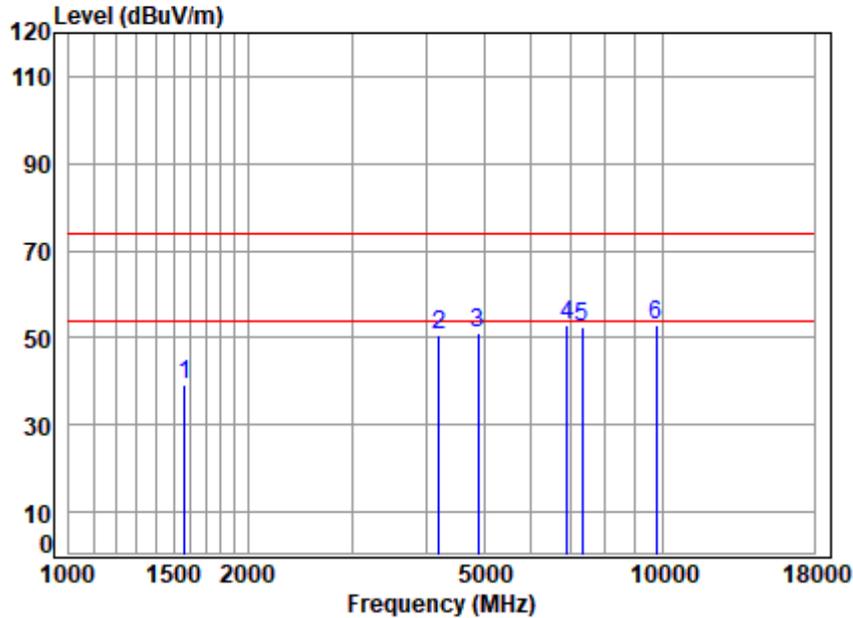
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1556.169	4.14	26.98	38.40	46.45	39.17	74.00	-34.83	peak
2	4392.376	7.05	34.74	35.80	44.85	50.84	74.00	-23.16	peak
3	4882.000	7.36	34.63	35.47	44.48	51.00	74.00	-23.00	peak
4	6974.982	8.90	35.75	35.55	43.70	52.80	74.00	-21.20	peak
5	7323.000	9.32	35.70	35.90	43.04	52.16	74.00	-21.84	peak
6 p	9764.000	12.47	37.37	37.42	41.33	53.75	74.00	-20.25	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:middle



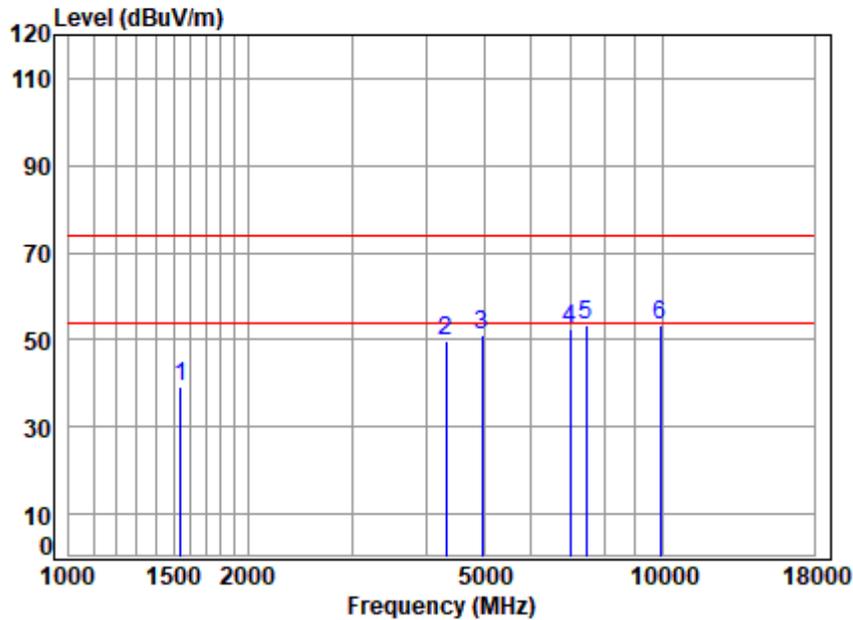
Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2441 TX RSE
 : BT

	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	1569.721	4.16	26.92	38.40	46.49	39.17	74.00	-34.83	peak
2	4206.011	6.93	33.80	35.94	45.99	50.78	74.00	-23.22	peak
3	4882.000	7.36	34.63	35.47	44.46	50.98	74.00	-23.02	peak
4	6914.763	8.86	35.66	35.52	43.77	52.77	74.00	-21.23	peak
5	7323.000	9.32	35.70	35.90	43.44	52.56	74.00	-21.44	peak
6 p	9764.000	12.47	37.37	37.42	40.42	52.84	74.00	-21.16	peak



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Test Mode: 02; Polarity: Horizontal; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m HORIZONTAL
 Job No : 00646AT/00647AT
 Mode : 2480 TX RSE
 : BT

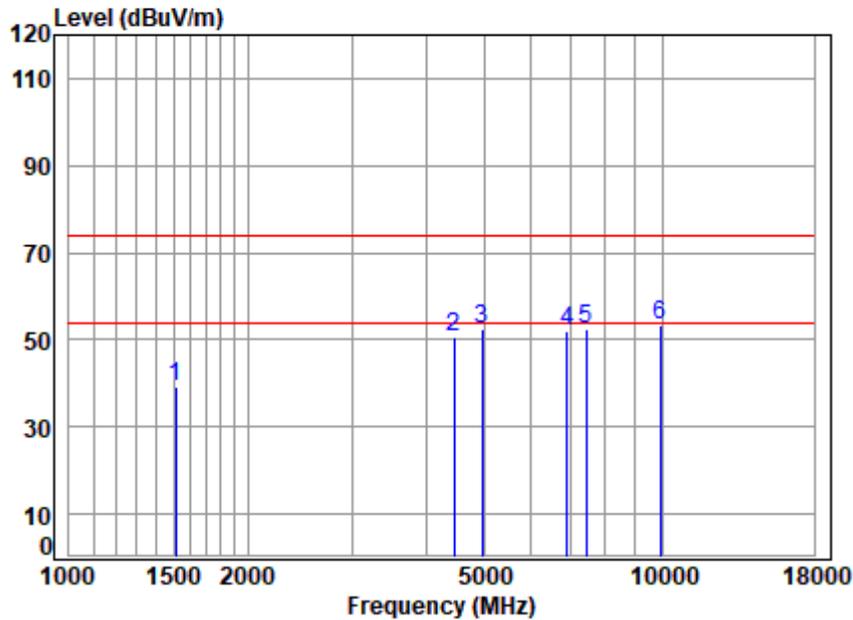
	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1542.733	4.12	26.97	38.39	46.49	39.19	74.00	-34.81	peak
2	4316.859	7.00	34.13	35.86	44.67	49.94	74.00	-24.06	peak
3	4960.000	7.41	34.56	35.42	44.58	51.13	74.00	-22.87	peak
4	6995.172	8.92	35.71	35.57	43.20	52.26	74.00	-21.74	peak
5	7440.000	9.46	35.96	36.02	43.82	53.22	74.00	-20.78	peak
6	9920.000	12.58	37.30	37.39	40.69	53.18	74.00	-20.82	peak



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Test Mode: 02; Polarity: Vertical; Modulation:GFSK; Channel:High



Site : chamber
 Condition: 3m VERTICAL
 Job No : 00646AT/00647AT
 Mode : 2480 TX RSE
 : 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	1511.833	4.08	26.85	38.39	46.67	39.21	74.00	-34.79	peak
2	4456.315	7.09	34.12	35.76	45.08	50.53	74.00	-23.47	peak
3	4960.000	7.41	34.56	35.42	46.10	52.65	74.00	-21.35	peak
4	6914.763	8.86	35.66	35.52	43.10	52.10	74.00	-21.90	peak
5	7440.000	9.46	35.96	36.02	43.06	52.46	74.00	-21.54	peak
6 p	9920.000	12.58	37.30	37.39	41.05	53.54	74.00	-20.46	peak



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8 Test Setup Photo

Refer to Setup Photo for SZCR2402000646AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2402000646AT



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10 Appendix

For right earbud:

1. Duty Cycle

1.1 Ant1

1.1.1 Test Result

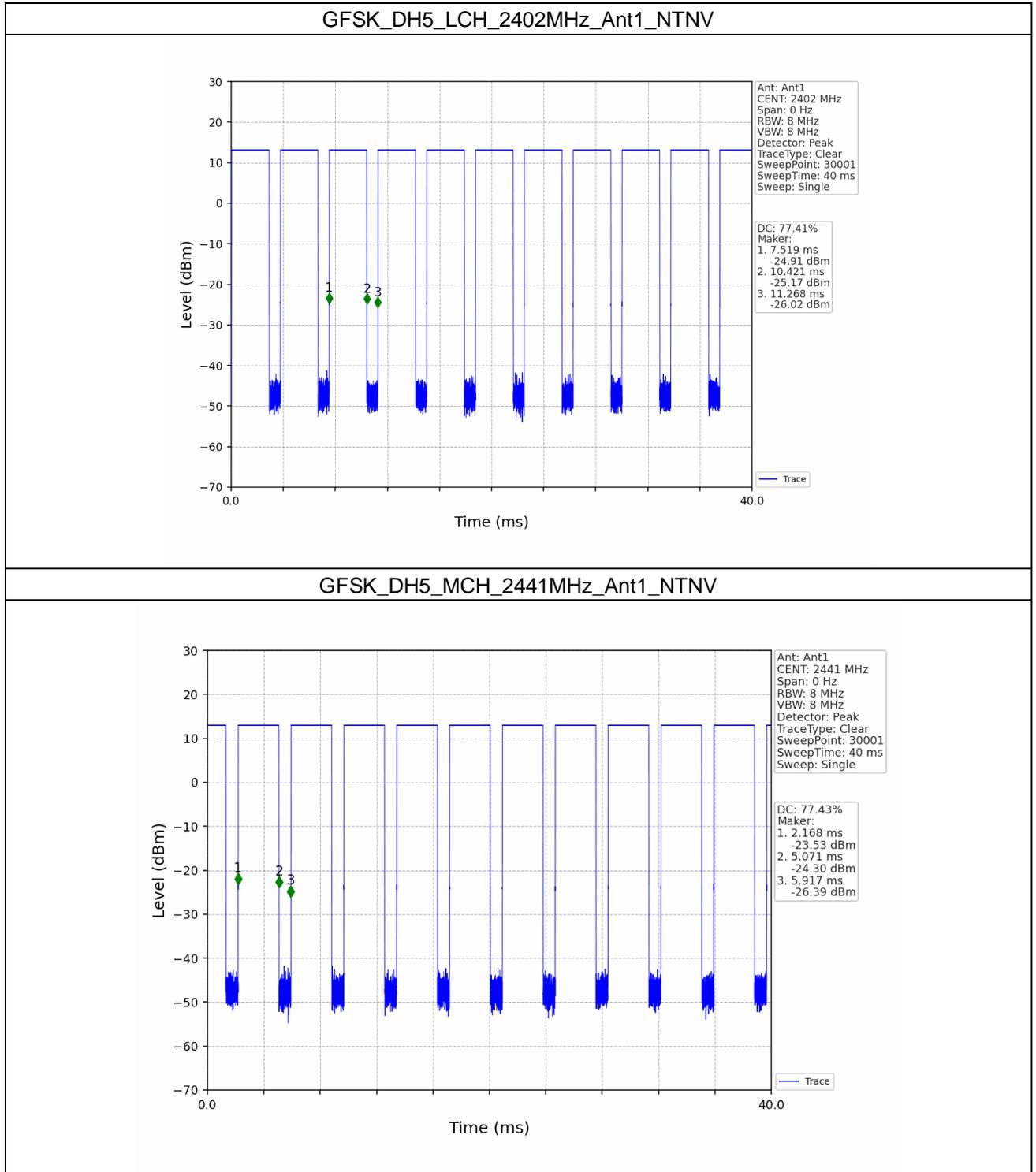
Ant1								
Mode	TX Type	Frequency (MHz)	Packet Type	T_on (ms)	Period (ms)	Duty Cycle (%)	Duty Cycle Correction Factor (dB)	Max. DC Variation (%)
GFSK	SISO	2402	DH5	2.902	3.749	77.41	1.11	0.01
		2441	DH5	2.903	3.749	77.43	1.11	0.01
		2480	DH5	2.904	3.751	77.42	1.11	0.03
Pi/4DQPSK	SISO	2402	2DH5	2.903	3.751	77.39	1.11	0.03
		2441	2DH5	2.902	3.749	77.41	1.11	0.01
		2480	2DH5	2.903	3.751	77.39	1.11	0.03
8DPSK	SISO	2402	3DH5	2.904	3.750	77.44	1.11	0.04
		2441	3DH5	2.905	3.751	77.45	1.11	0.03
		2480	3DH5	2.905	3.751	77.45	1.11	0.03



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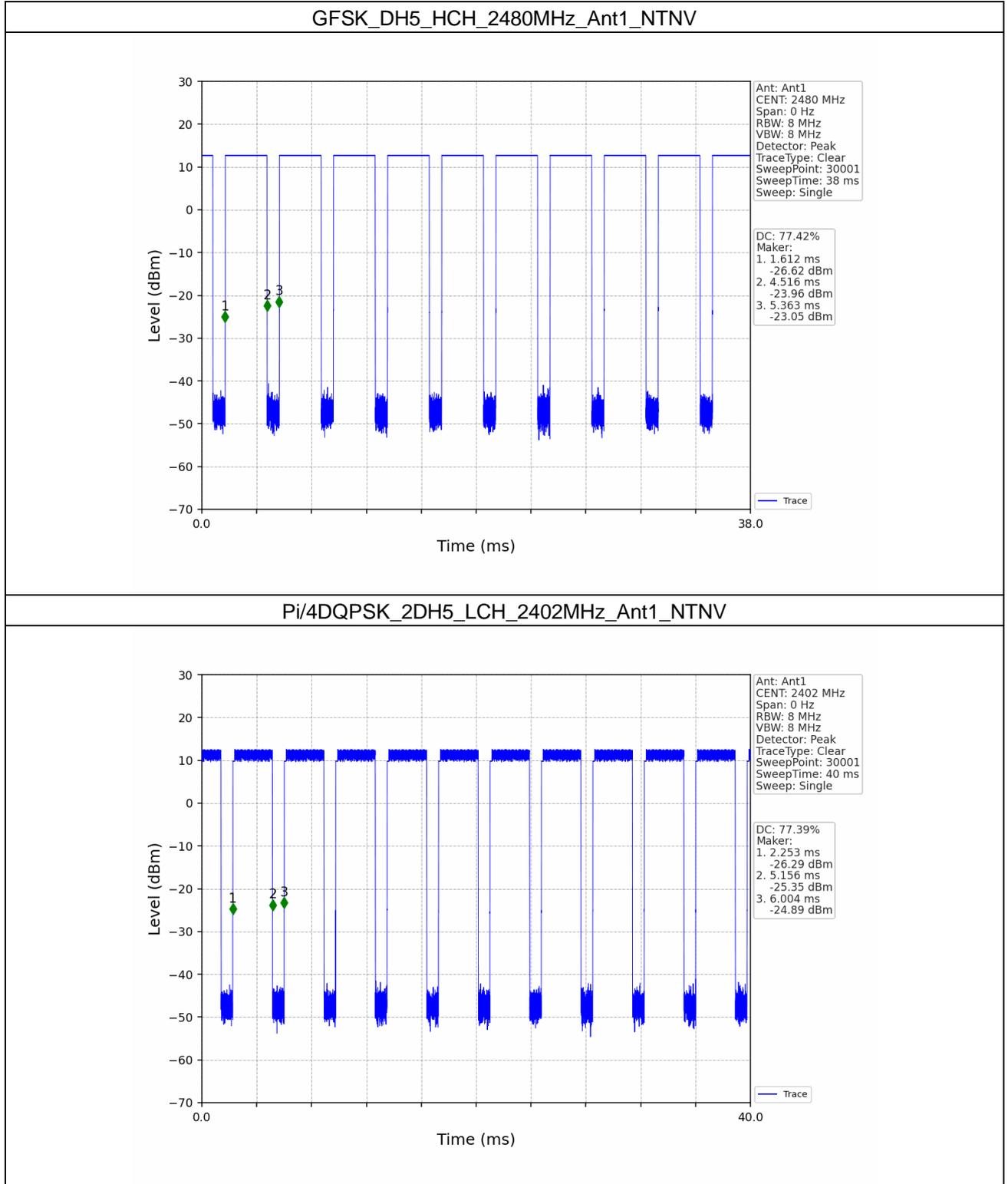
Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

1.1.2 Test Graph



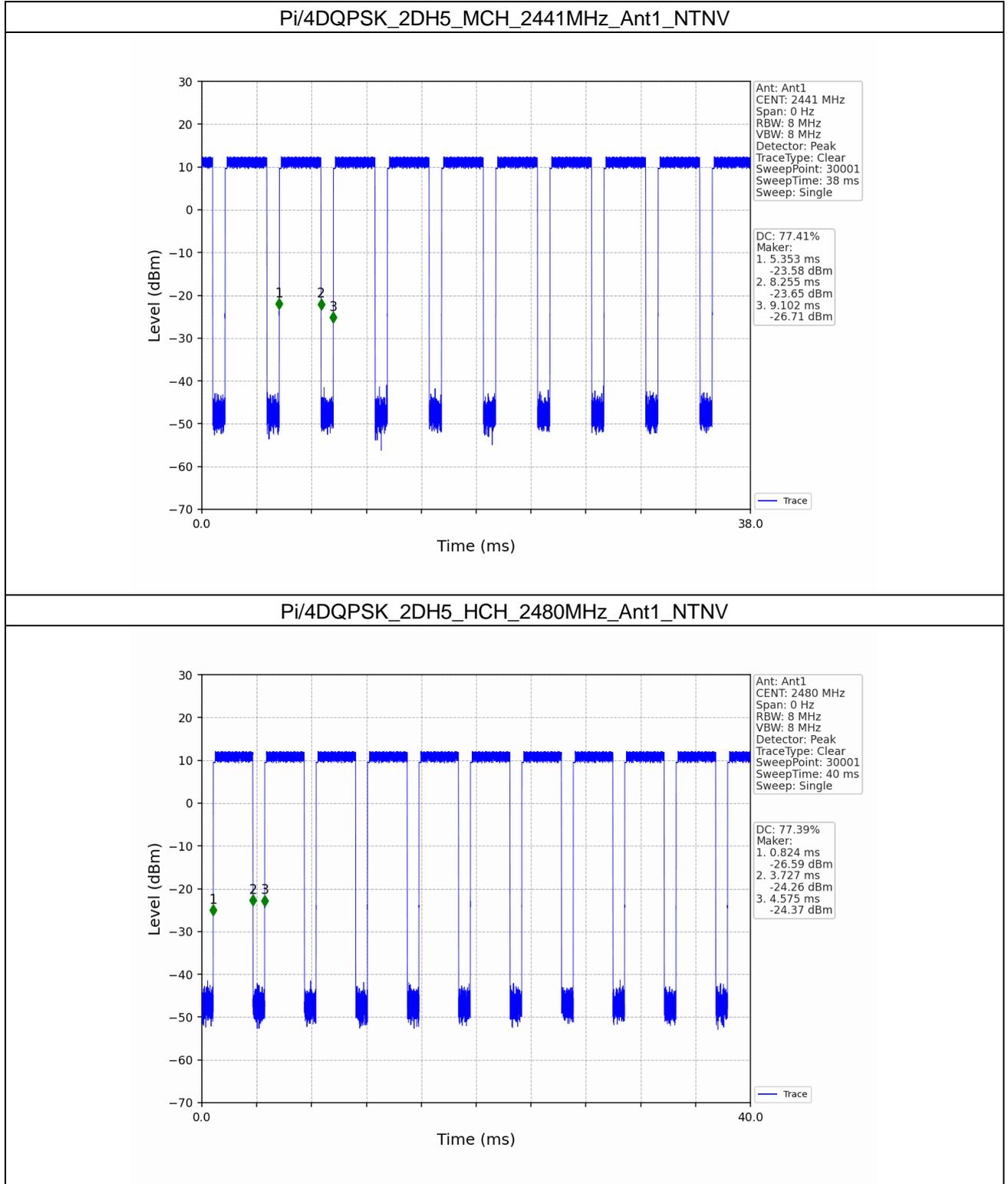
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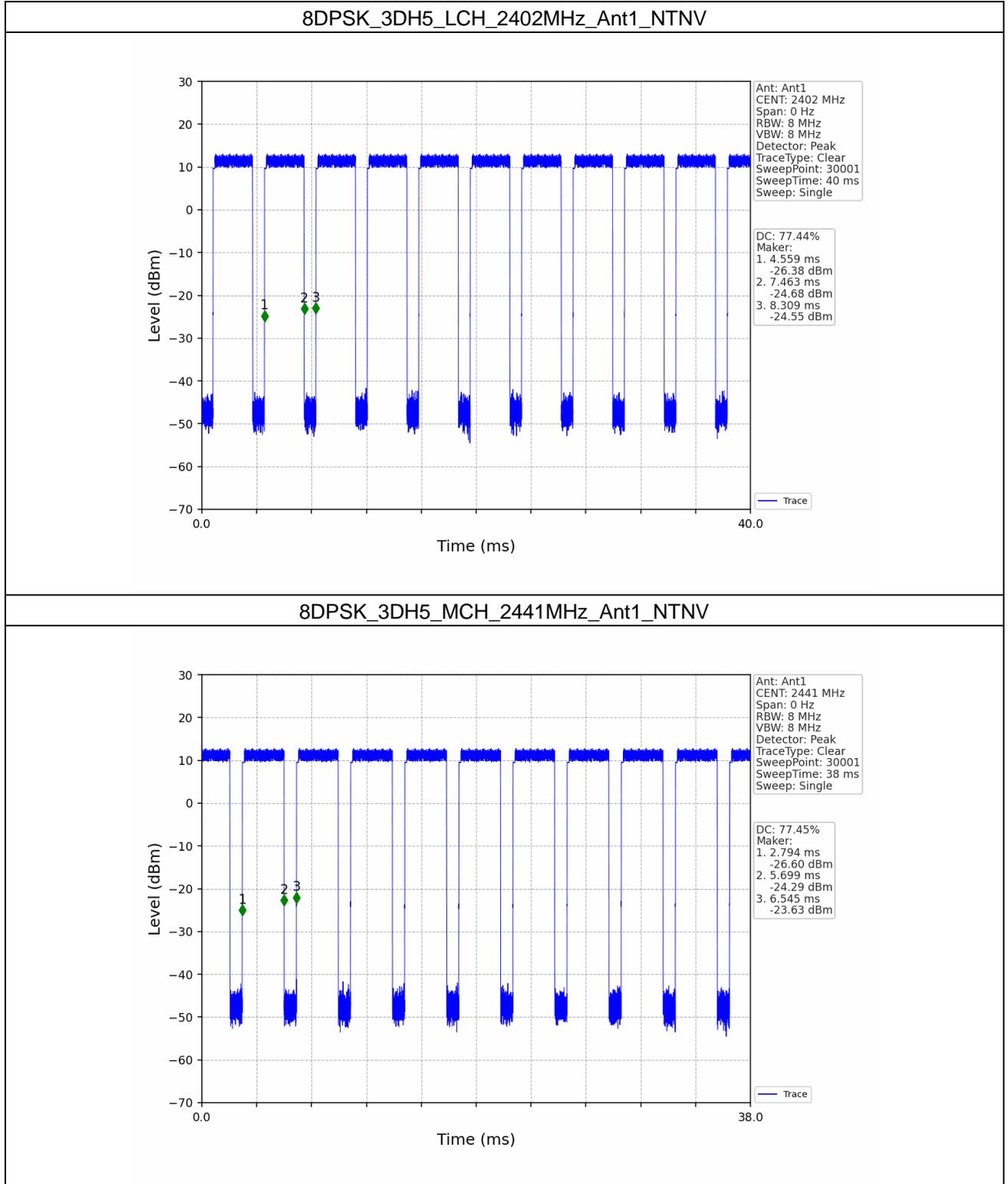


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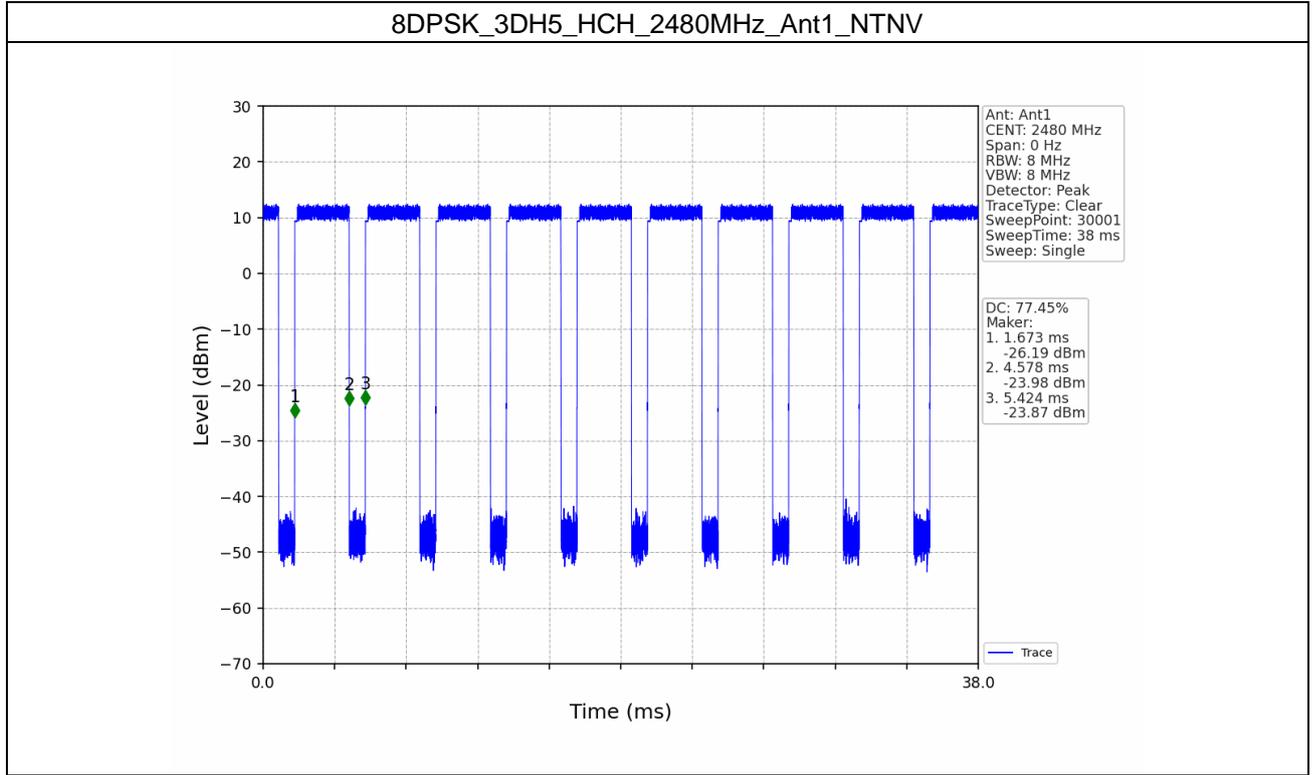
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2. Bandwidth

2.1 OBW

2.1.1 Test Result

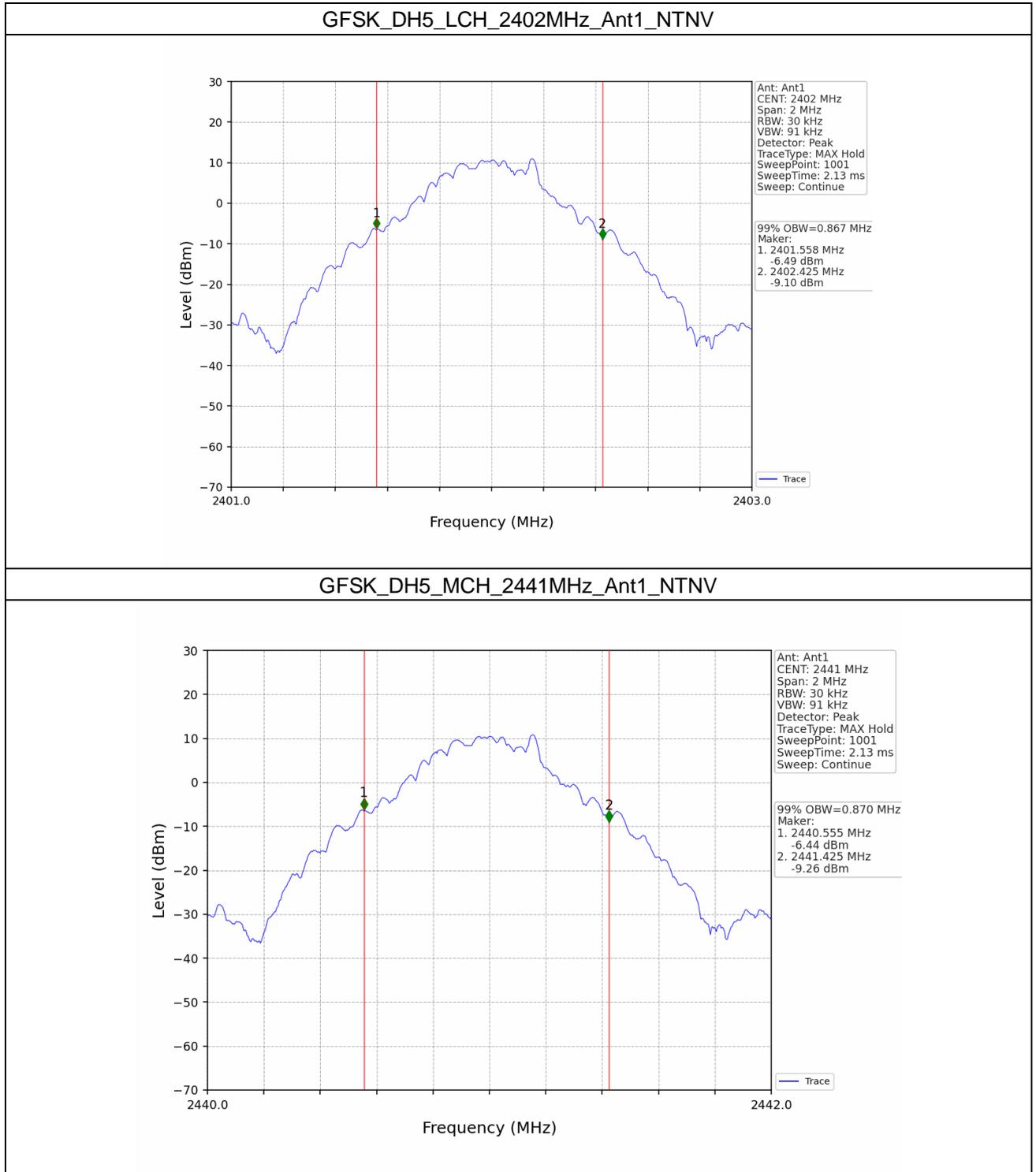
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.867	/	Pass
		2441	DH5	1	0.870	/	Pass
		2480	DH5	1	0.866	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.187	/	Pass
		2441	2DH5	1	1.188	/	Pass
		2480	2DH5	1	1.190	/	Pass
8DPSK	SISO	2402	3DH5	1	1.192	/	Pass
		2441	3DH5	1	1.191	/	Pass
		2480	3DH5	1	1.192	/	Pass



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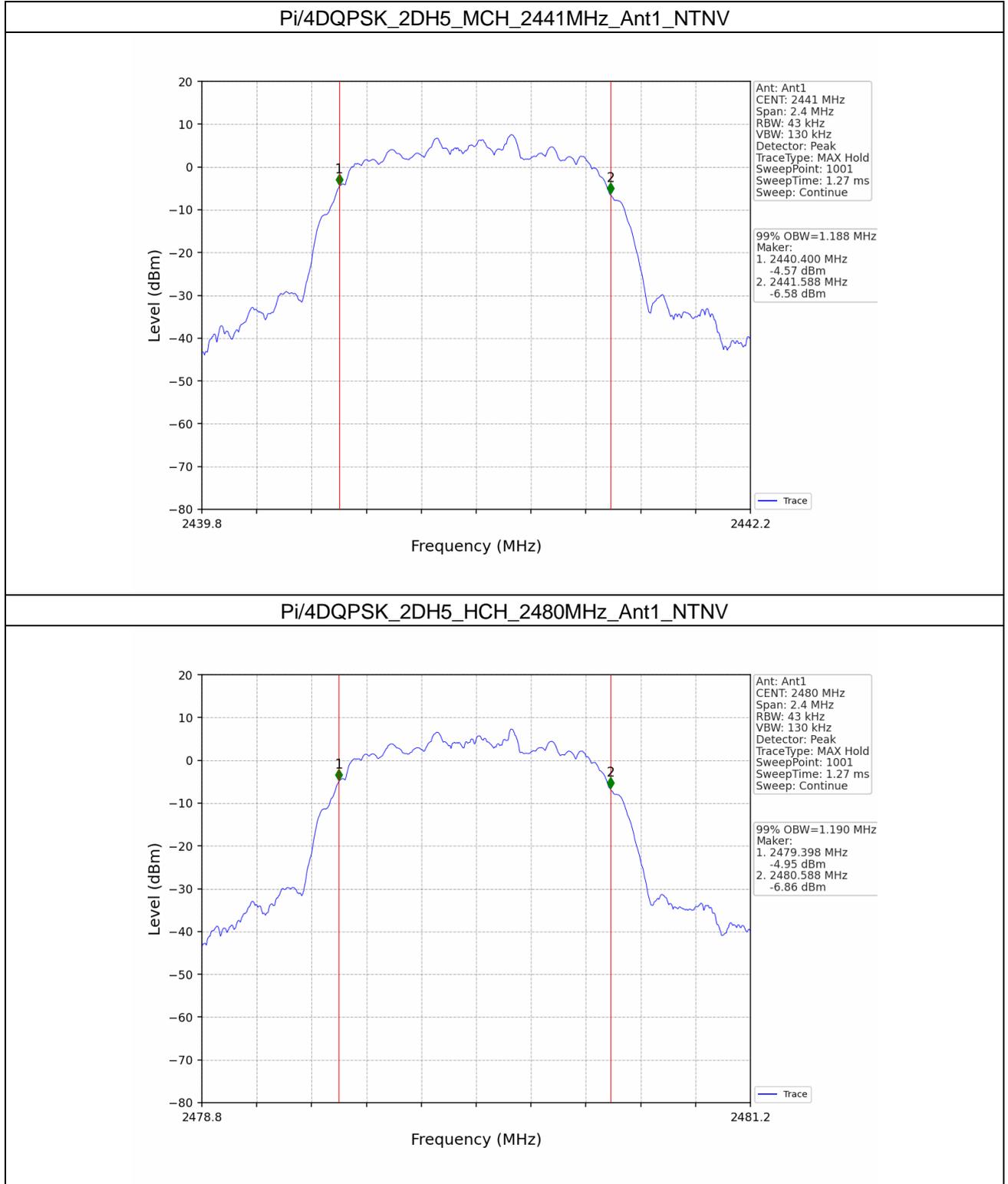
2.1.2 Test Graph



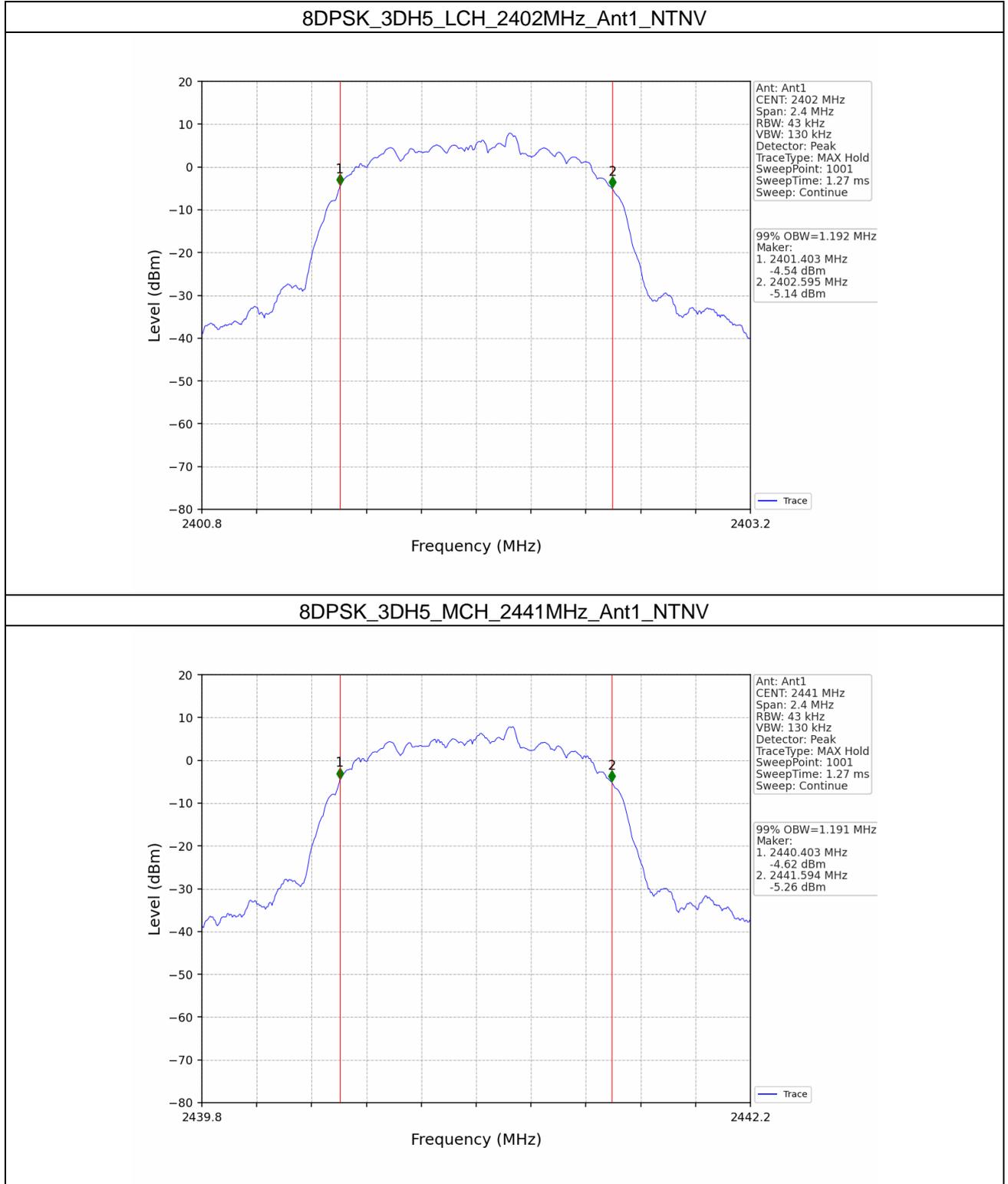
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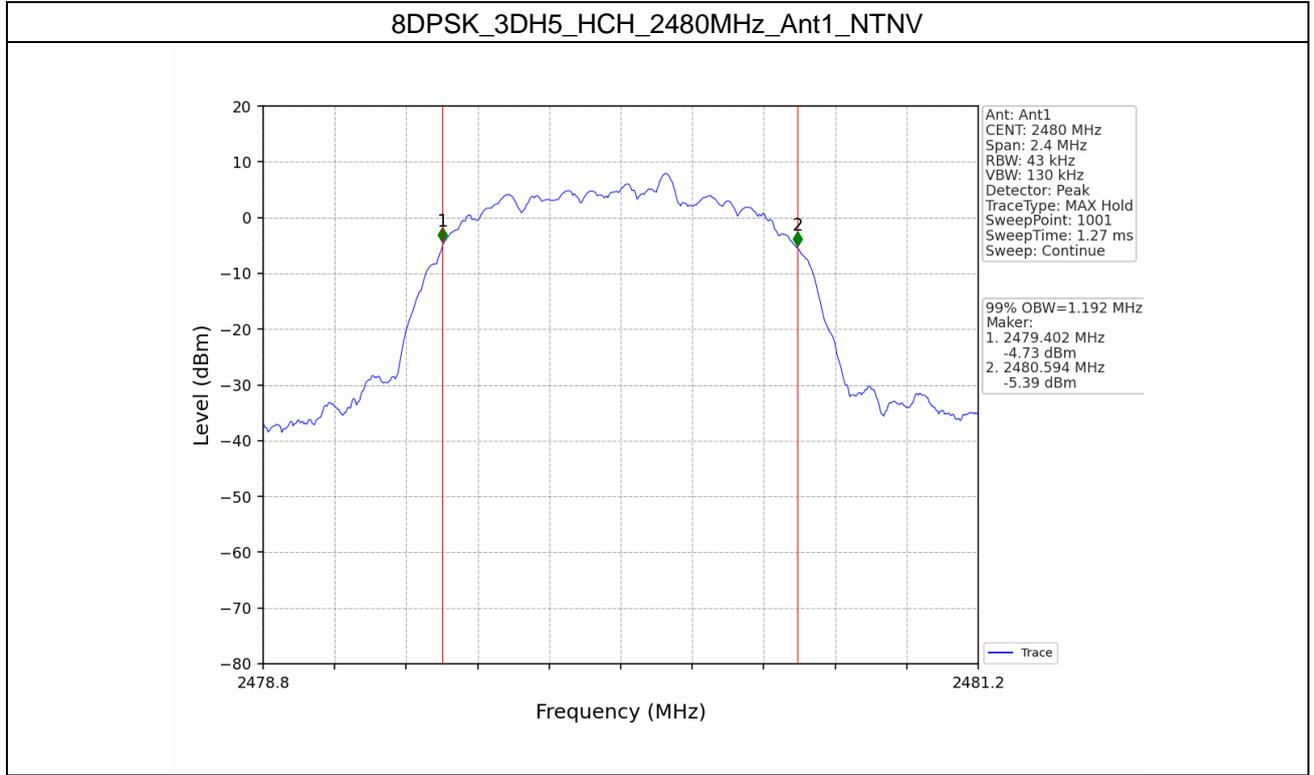
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



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2.2 20dB BW

2.2.1 Test Result

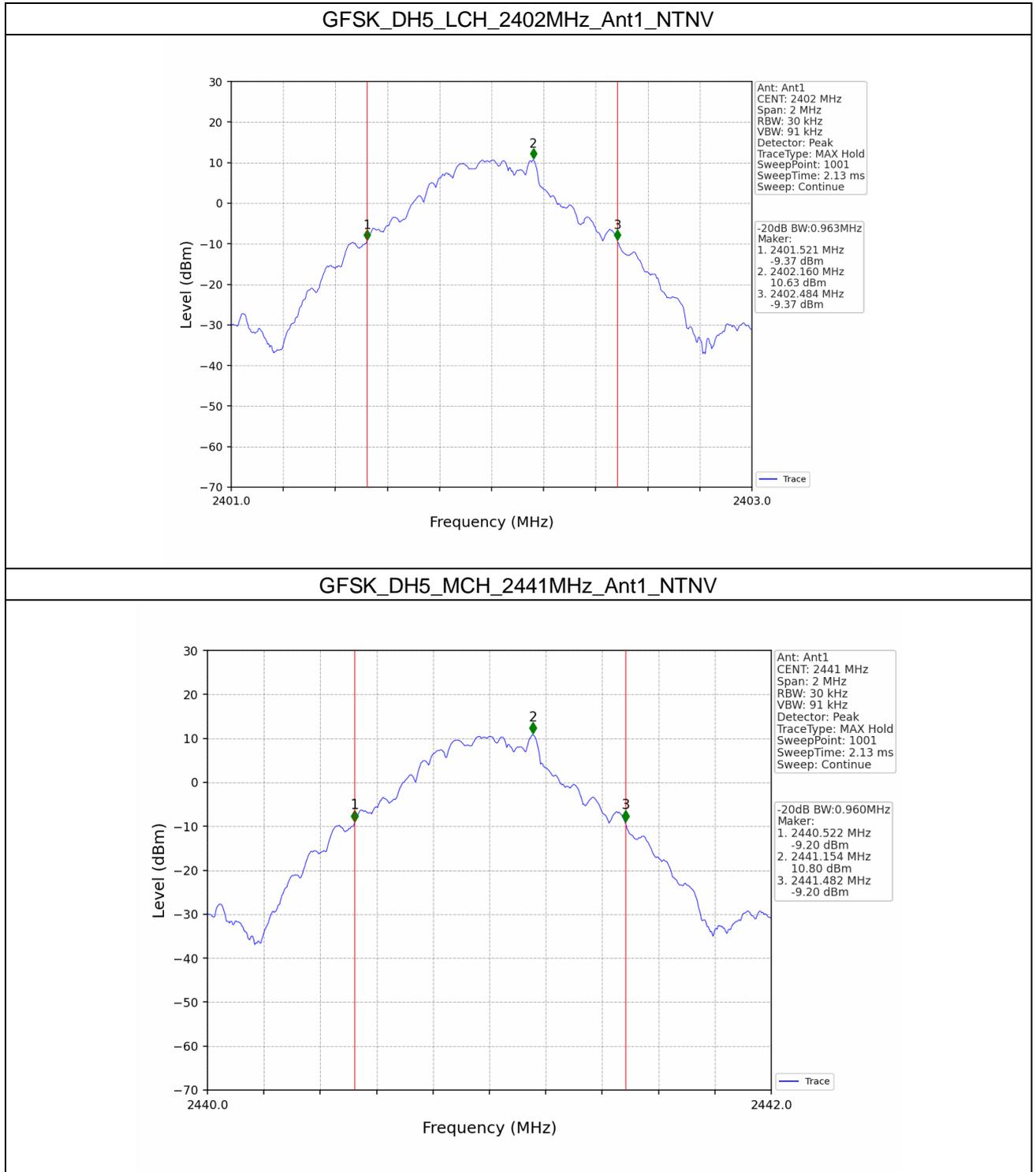
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.963	/	Pass
		2441	DH5	1	0.960	/	Pass
		2480	DH5	1	0.963	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.347	/	Pass
		2441	2DH5	1	1.346	/	Pass
		2480	2DH5	1	1.346	/	Pass
8DPSK	SISO	2402	3DH5	1	1.323	/	Pass
		2441	3DH5	1	1.322	/	Pass
		2480	3DH5	1	1.322	/	Pass



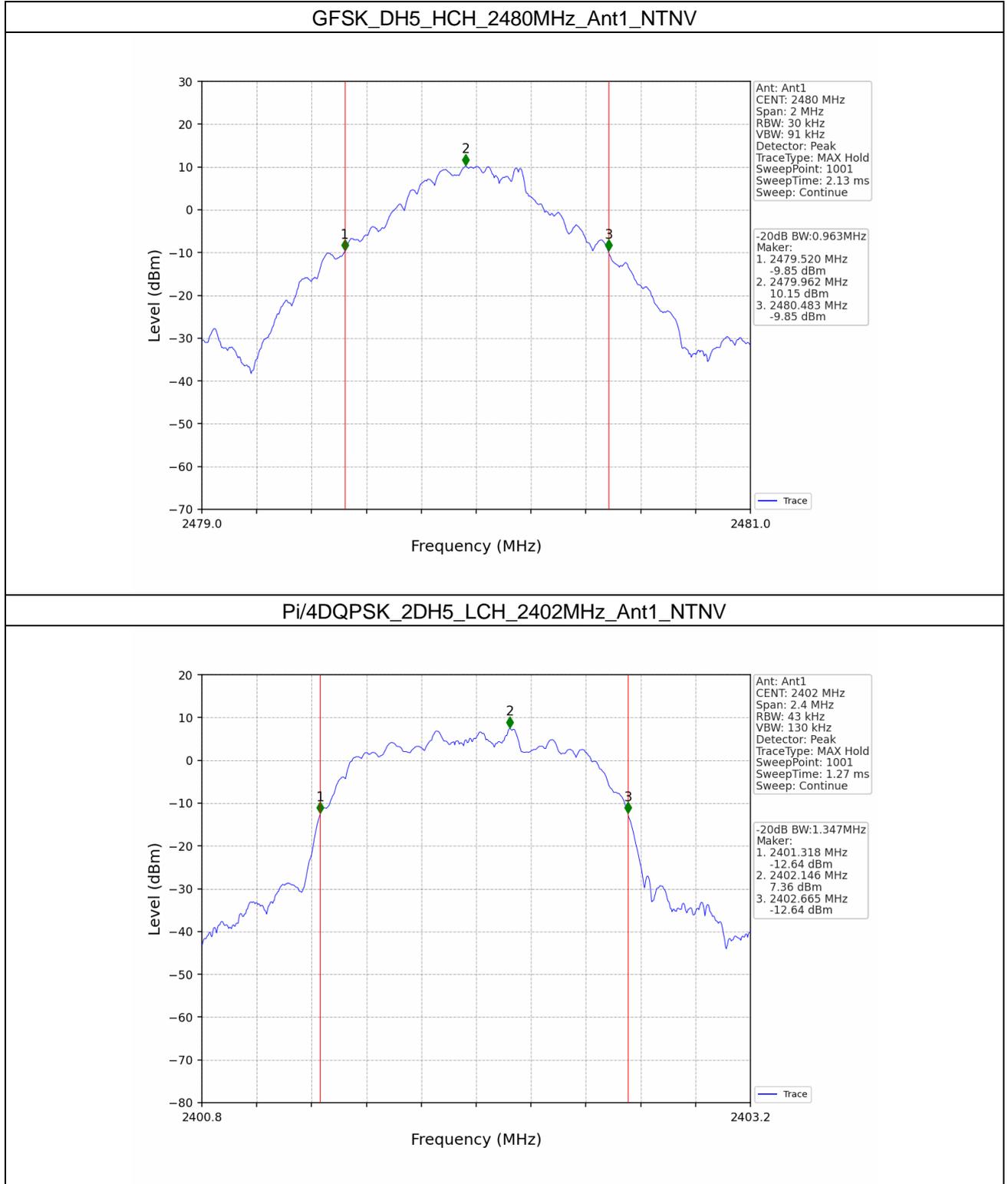
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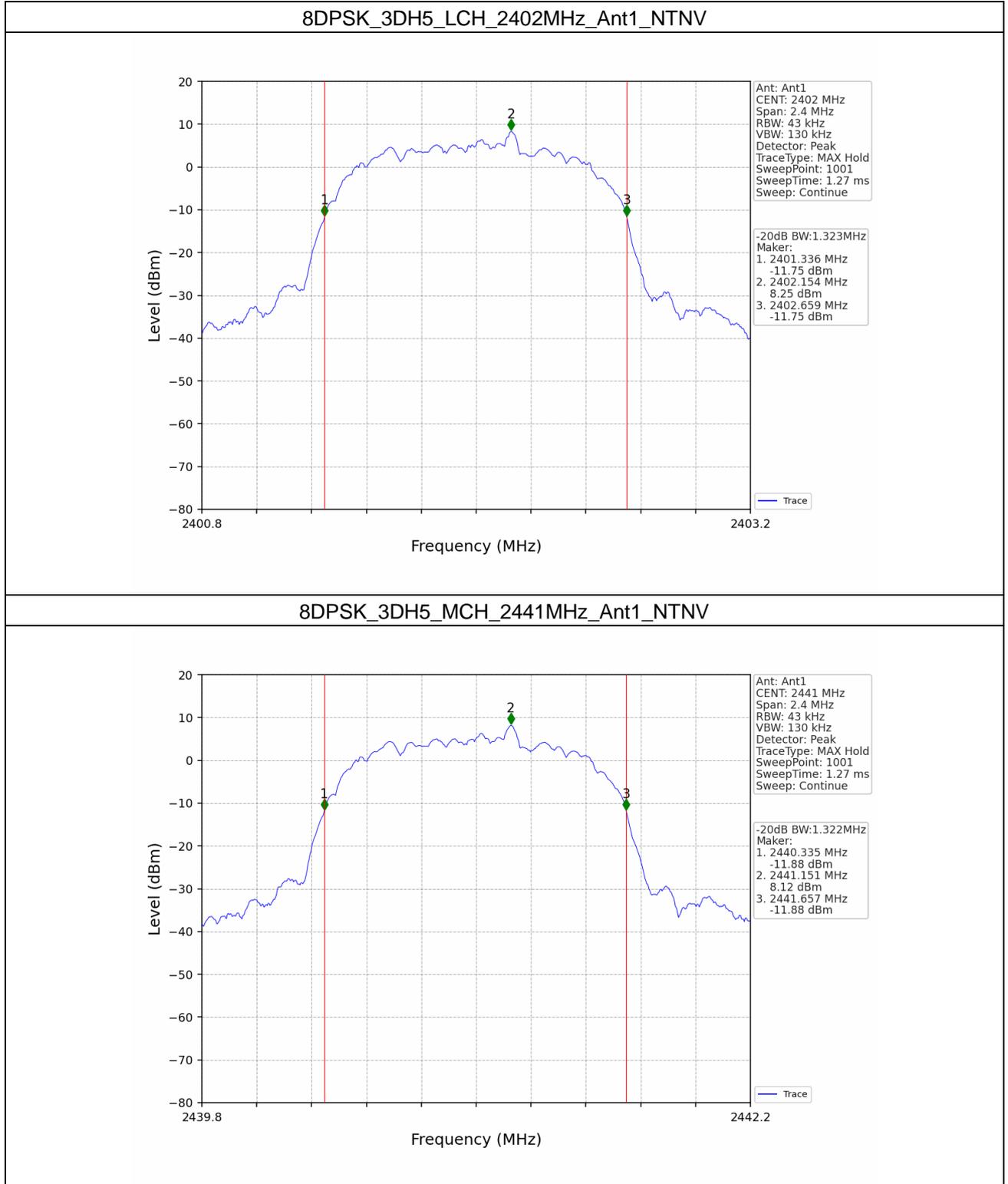
2.2.2 Test Graph



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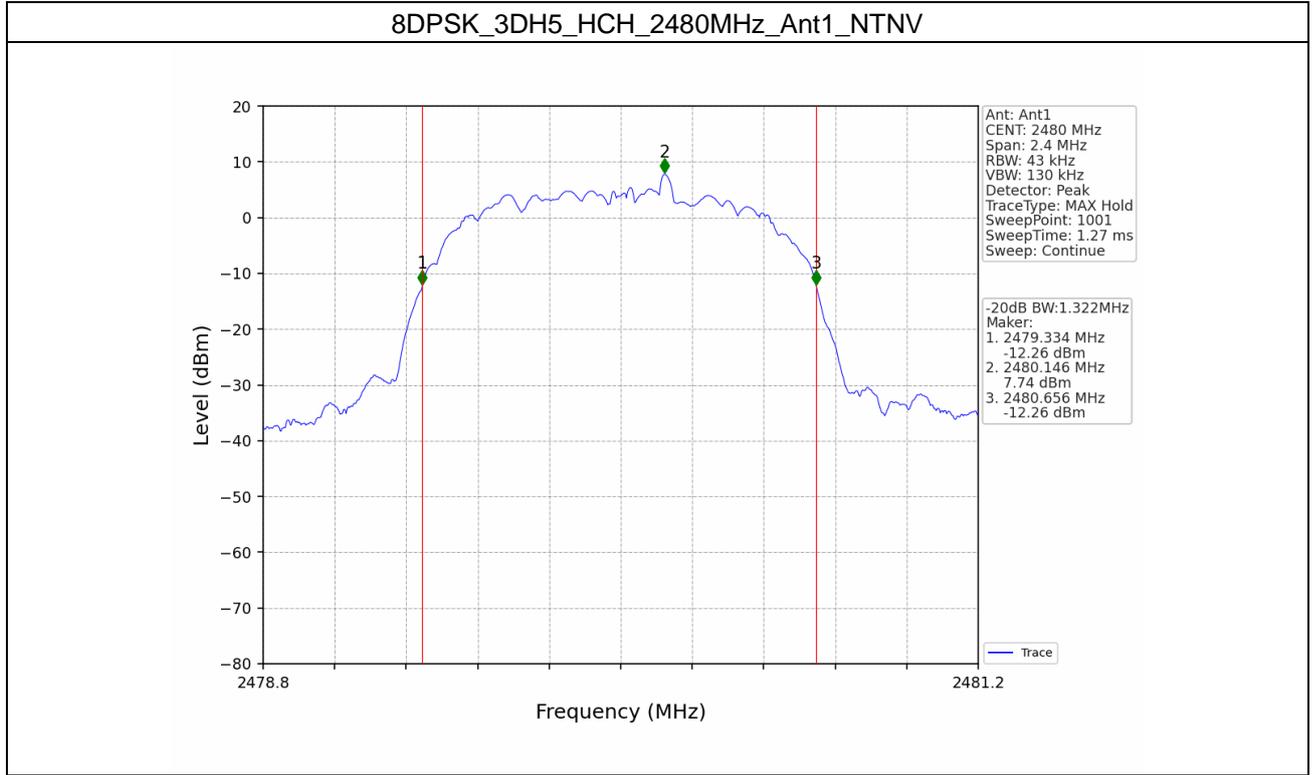
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3. Maximum Conducted Output Power

3.1 Power

3.1.1 Test Result

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT1	Limit	
GFSK	SISO	2402	DH5	13.12	<=30	Pass
		2441	DH5	13.01	<=30	Pass
		2480	DH5	13.49	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	12.35	<=20.97	Pass
		2441	2DH5	12.18	<=20.97	Pass
		2480	2DH5	11.88	<=20.97	Pass
8DPSK	SISO	2402	3DH5	12.86	<=20.97	Pass
		2441	3DH5	12.60	<=20.97	Pass
		2480	3DH5	12.26	<=20.97	Pass



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4. Carrier Frequency Separation

4.1 Ant1

4.1.1 Test Result

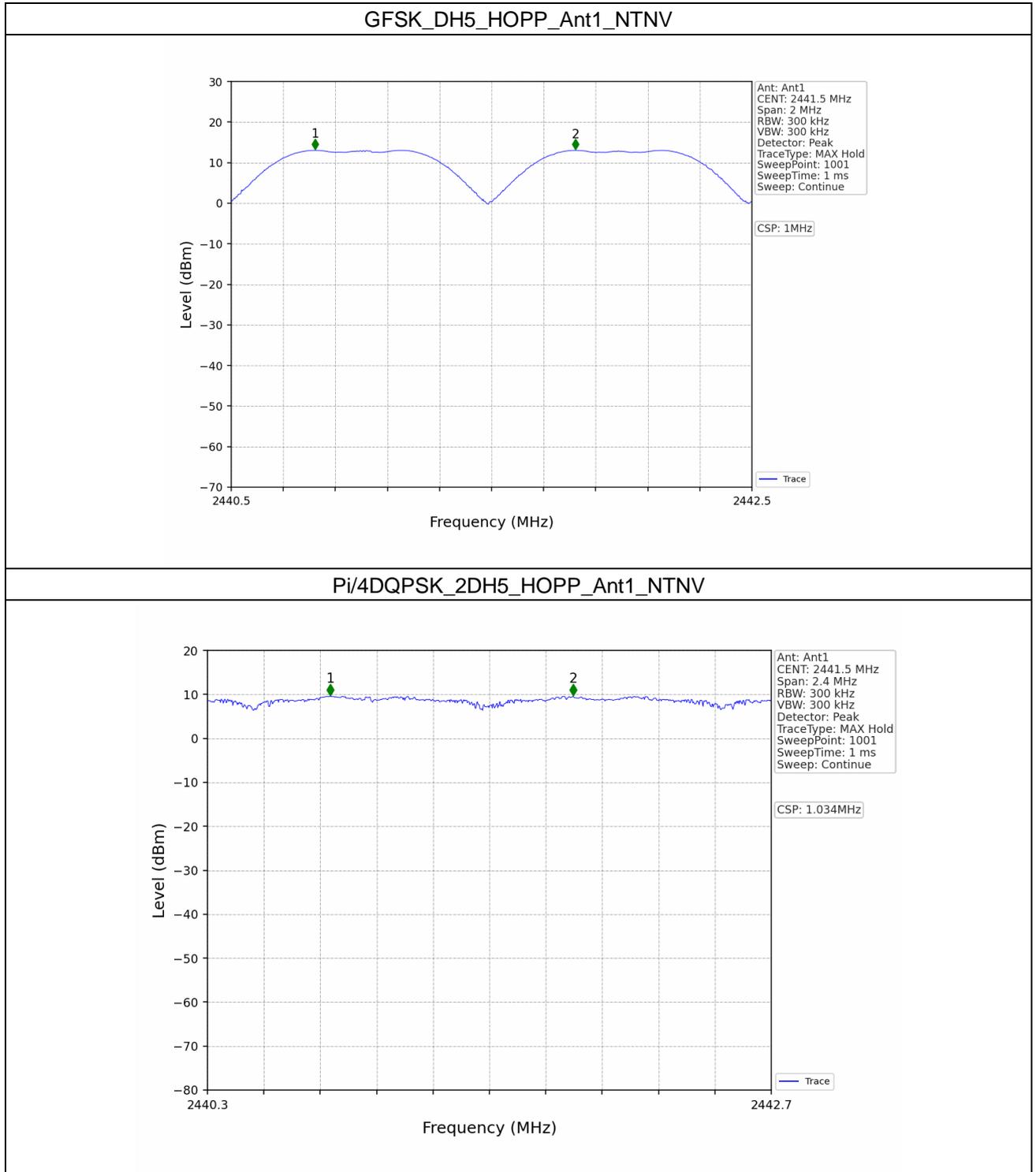
Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.963	≥ 0.963	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.034	1.347	≥ 0.898	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.323	≥ 0.882	Pass



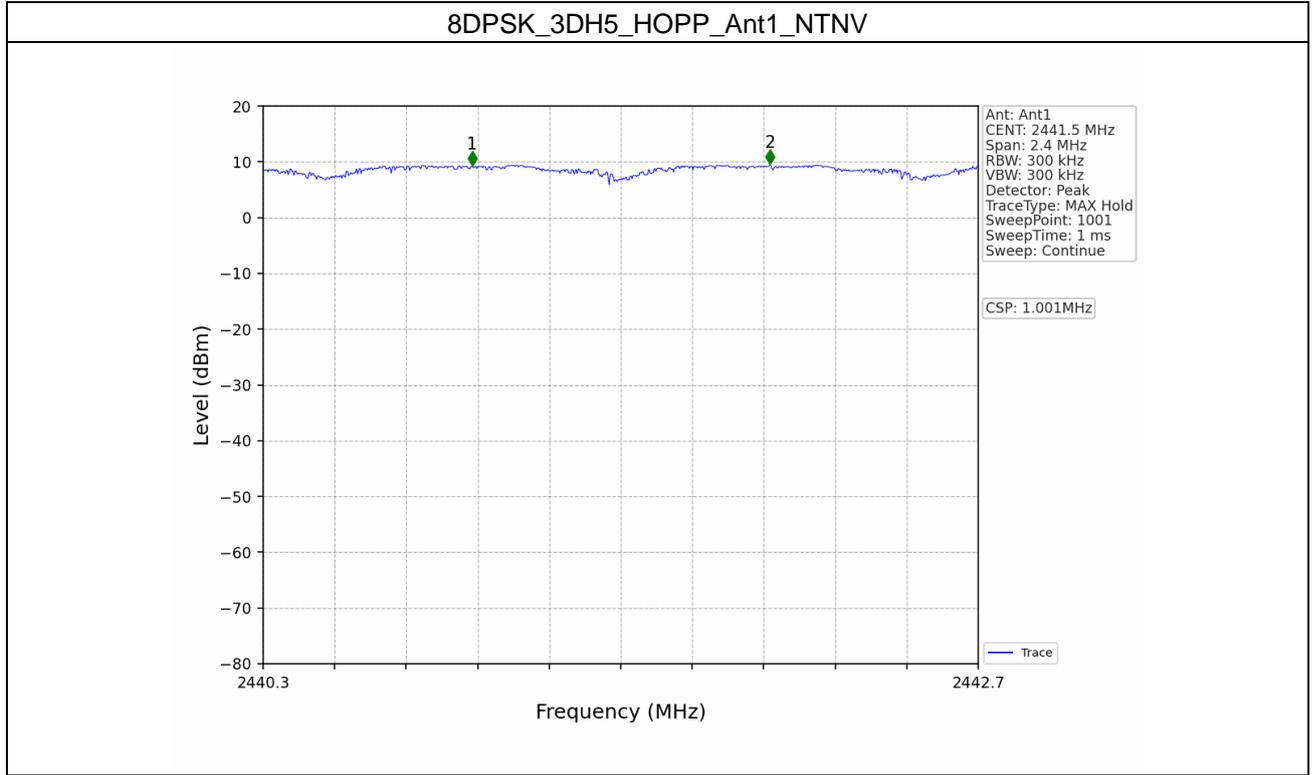
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4.1.2 Test Graph



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5. Number of Hopping Frequencies

5.1 HoppNum

5.1.1 Test Result

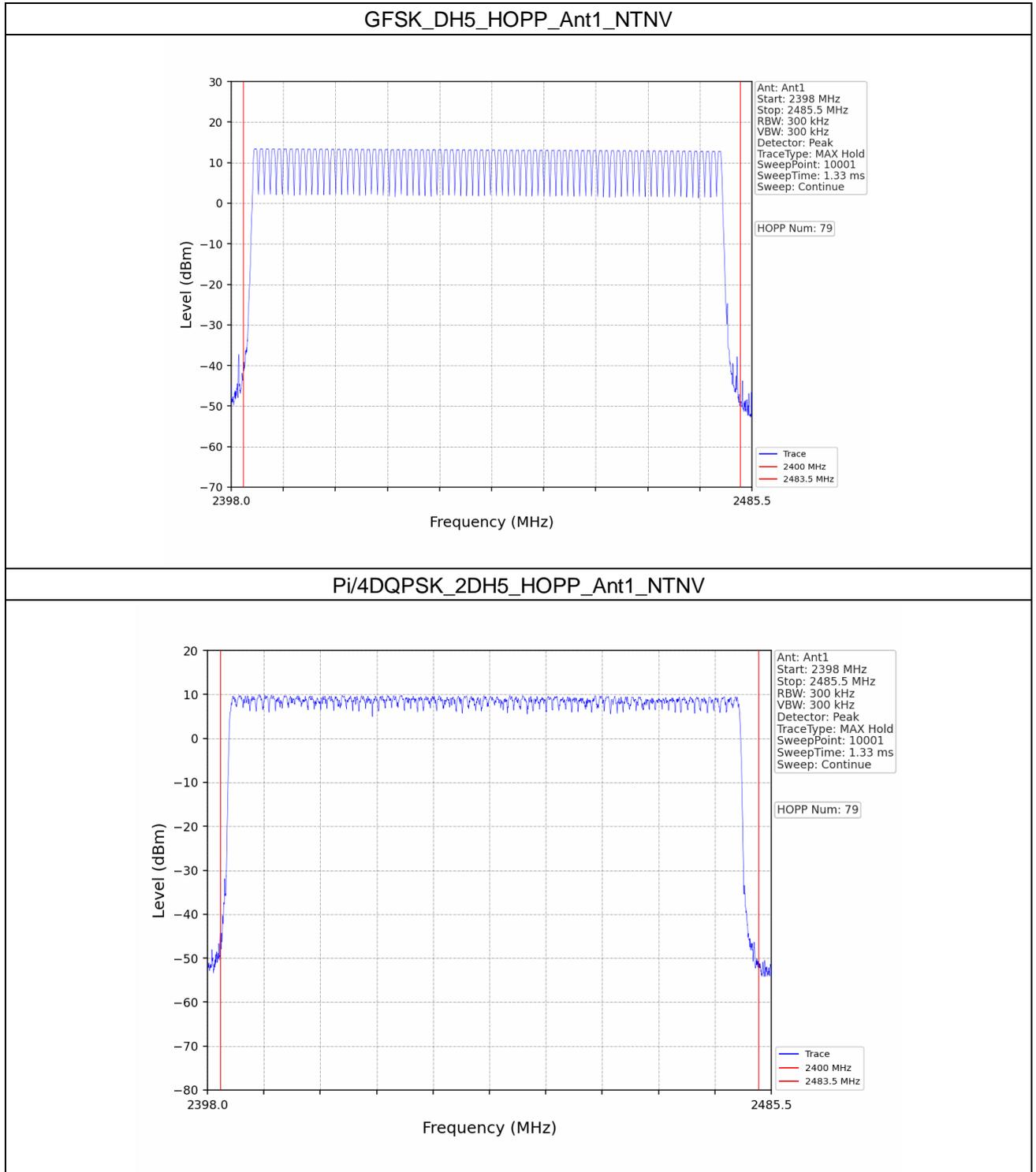
Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT1	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass



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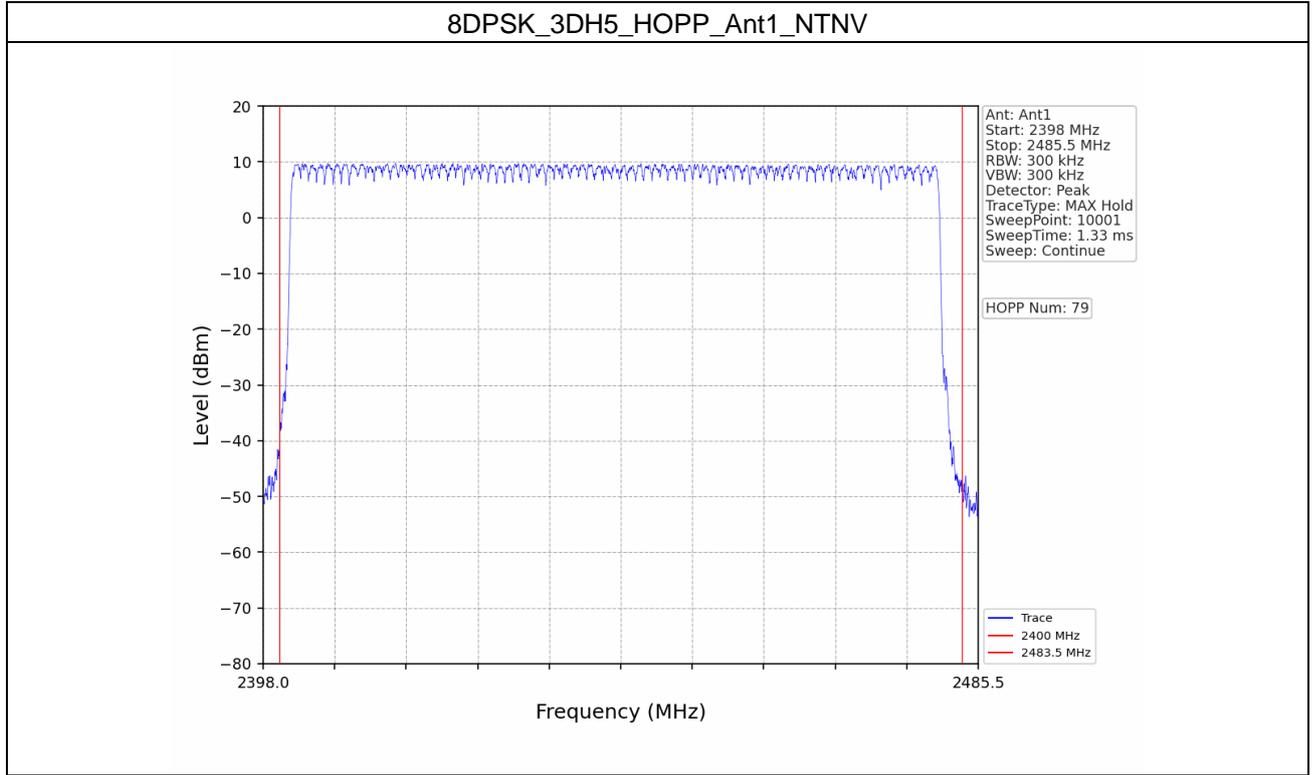
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5.1.2 Test Graph



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6. Time of Occupancy (Dwell Time)

6.1 Ant1

6.1.1 Test Result

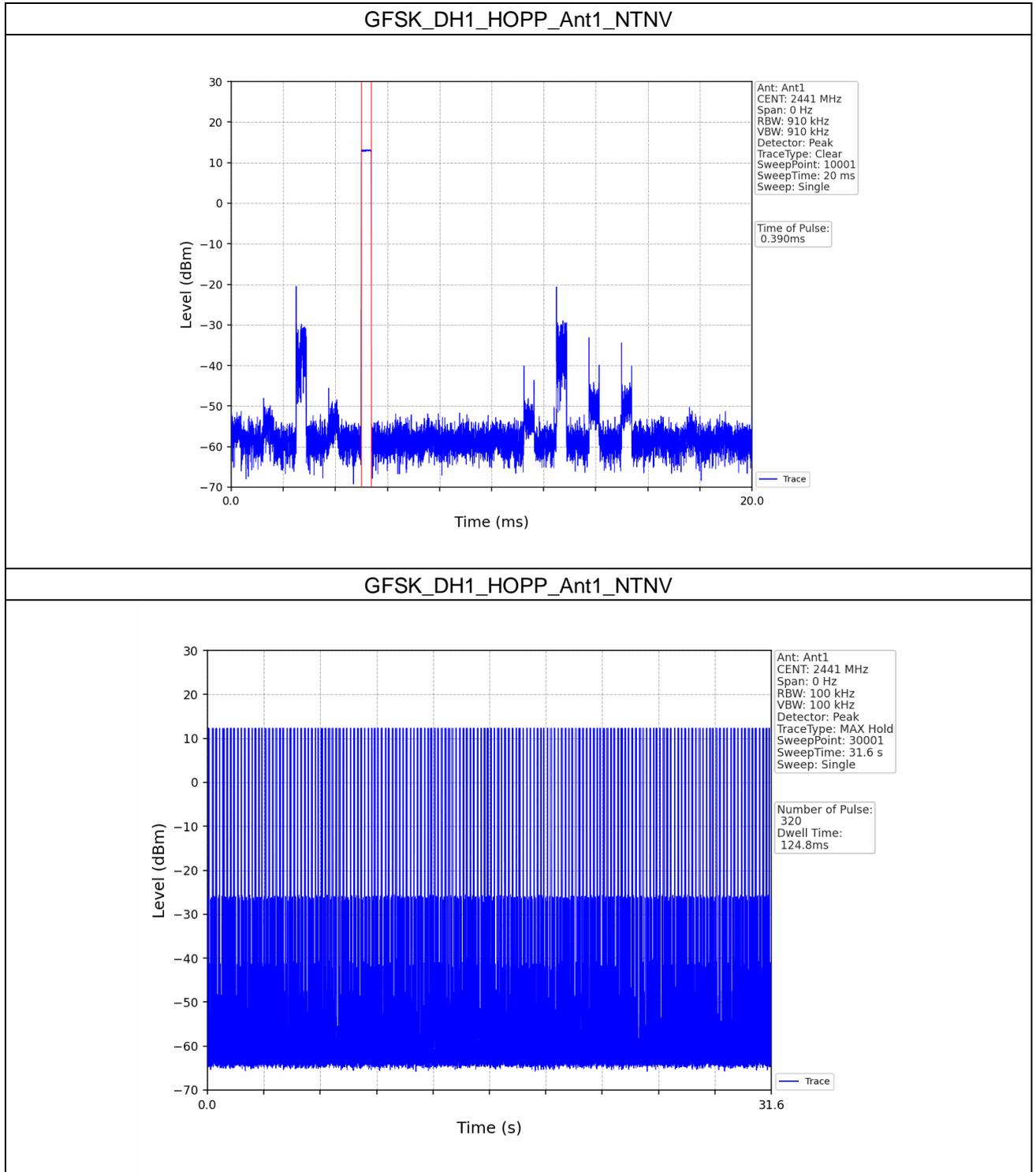
Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.390	31.600	320	124.800	<=400	Pass
			DH3	1.644	31.600	161	264.684	<=400	Pass
			DH5	2.892	31.600	102	294.984	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.404	31.600	319	128.876	<=400	Pass
			2DH3	1.658	31.600	157	260.306	<=400	Pass
			2DH5	2.892	31.600	108	312.336	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.234	31.600	320	74.880	<=400	Pass
			3DH3	1.654	31.600	160	264.640	<=400	Pass
			3DH5	2.896	31.600	104	301.184	<=400	Pass



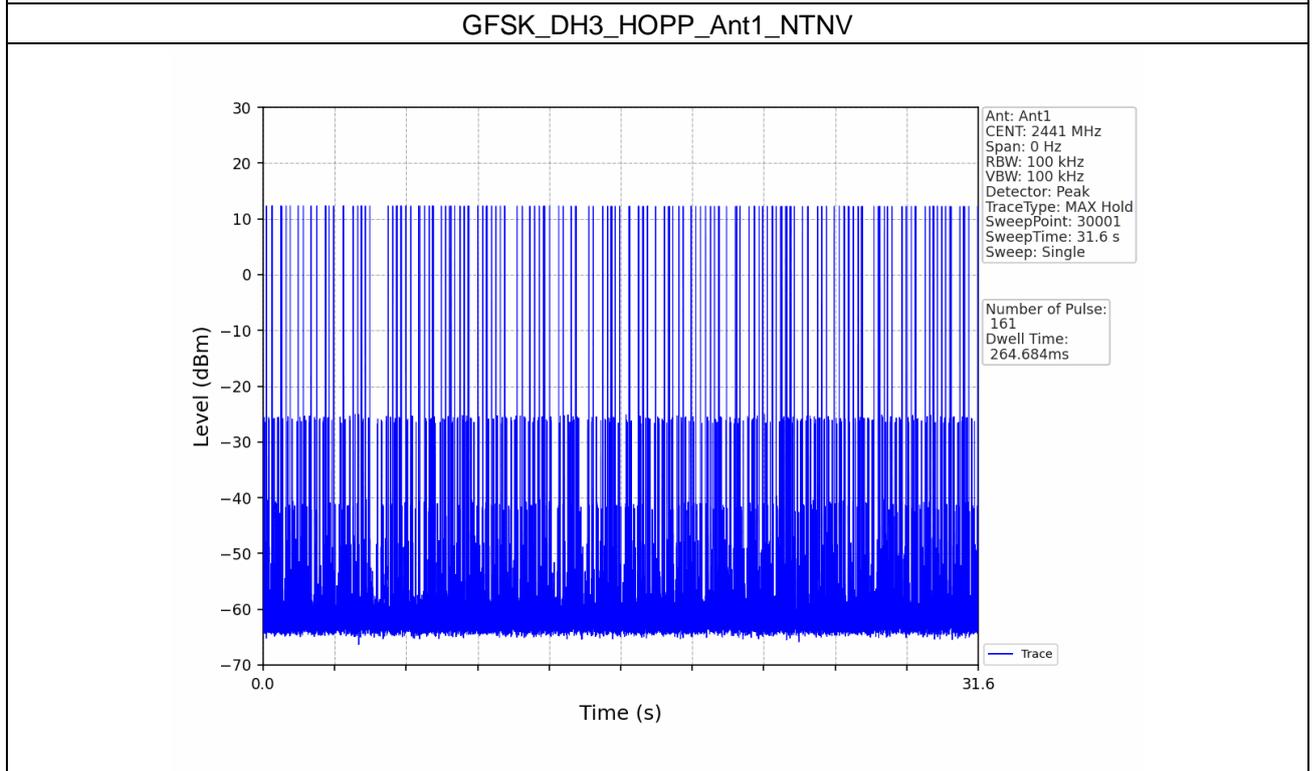
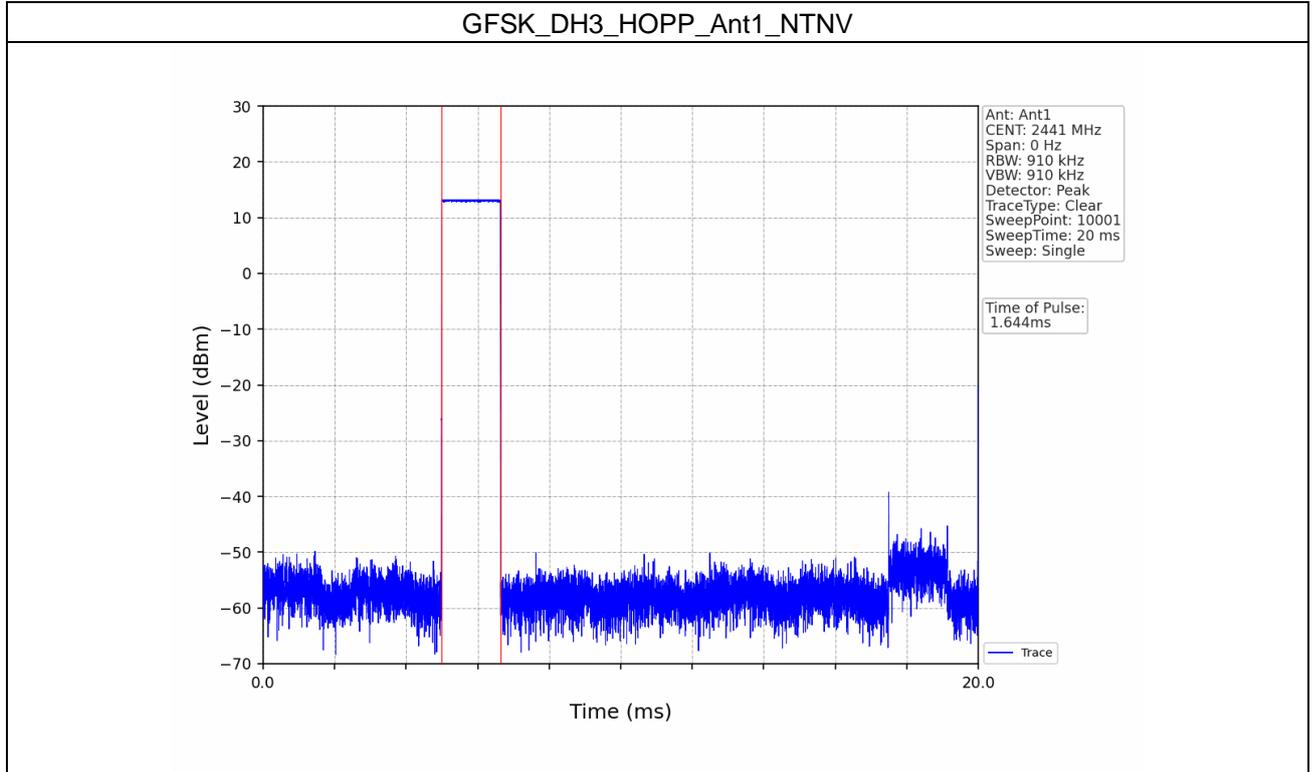
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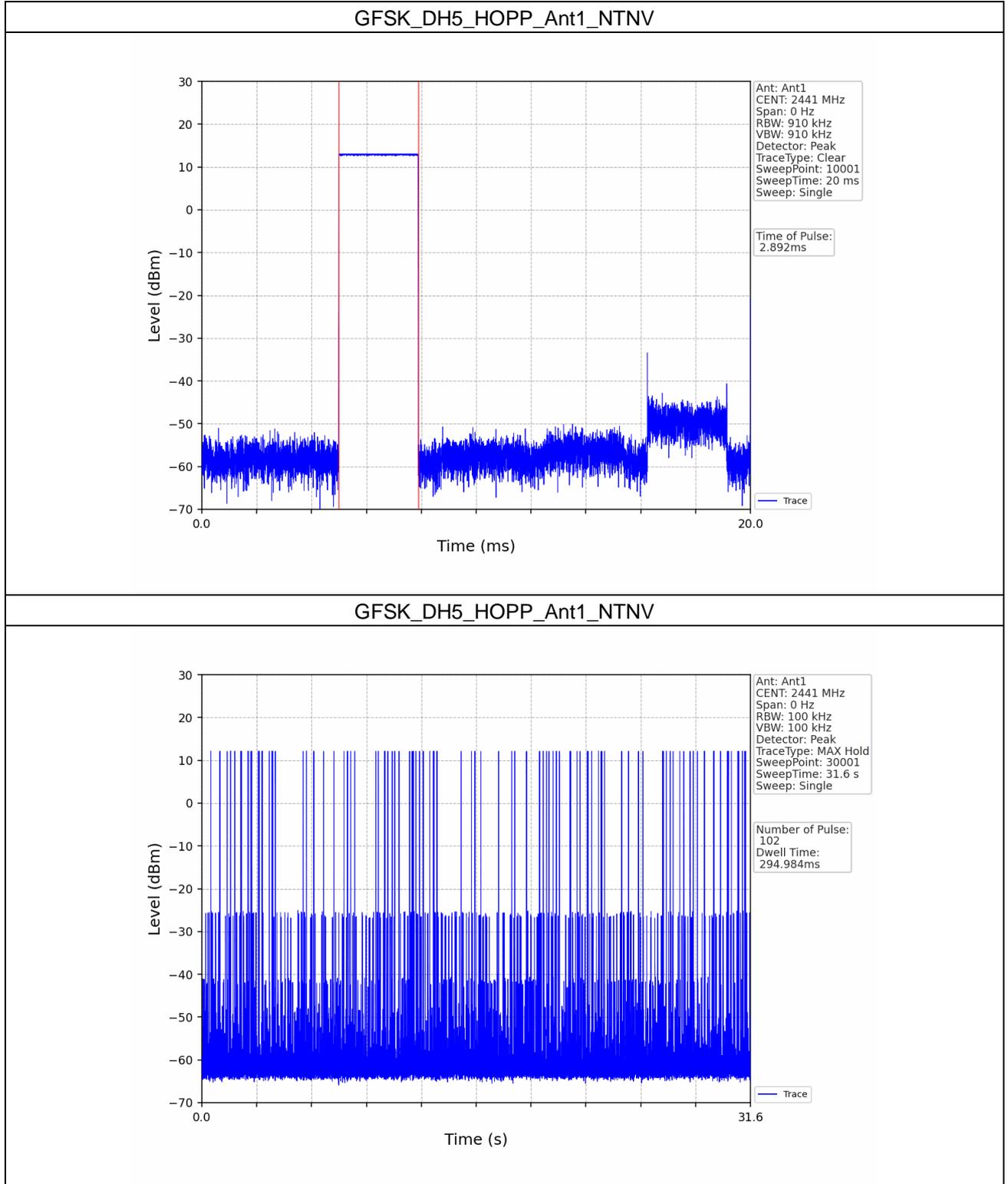
6.1.2 Test Graph



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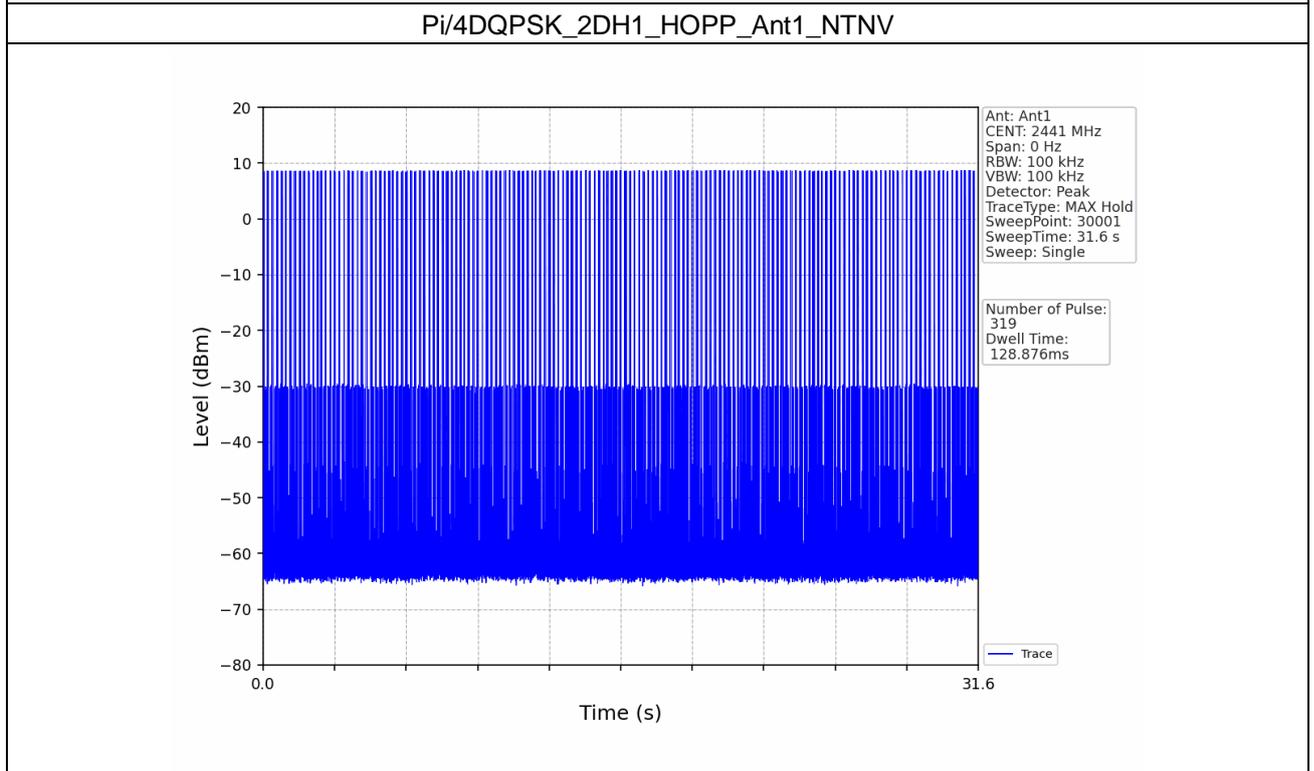
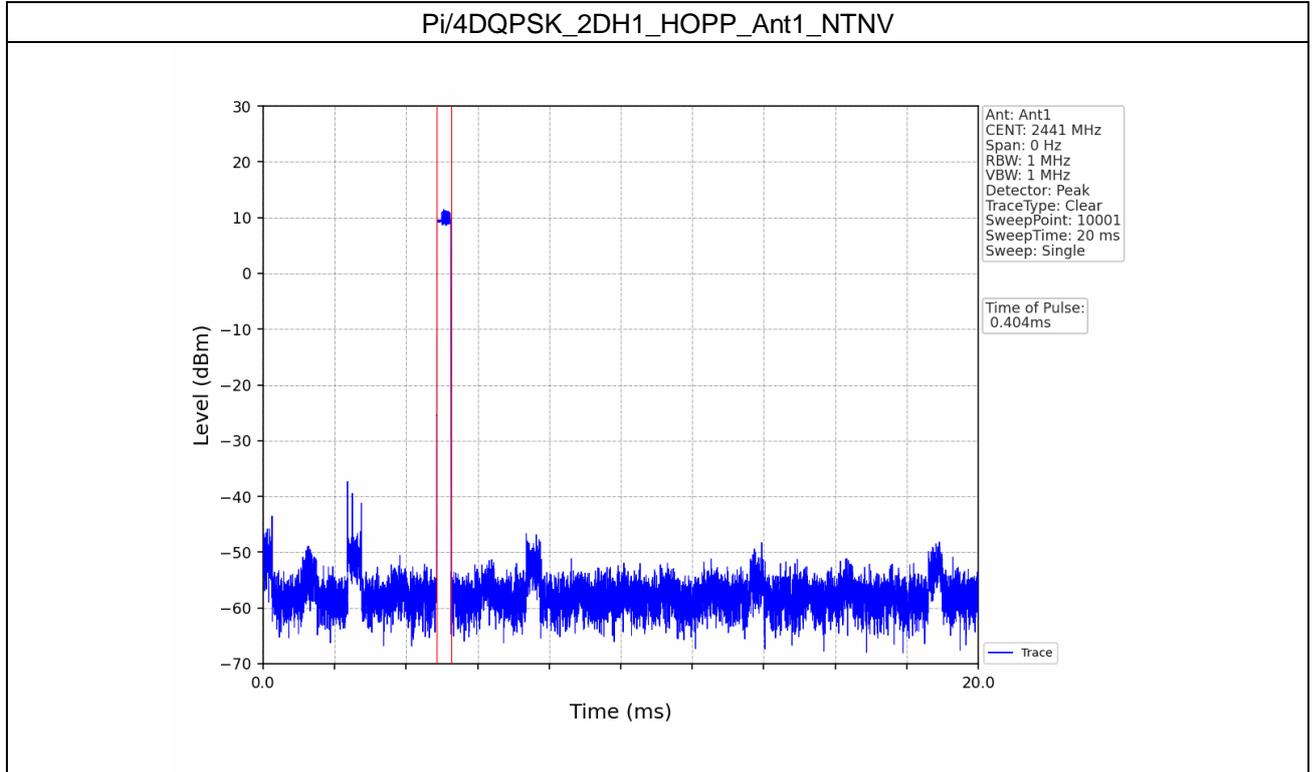
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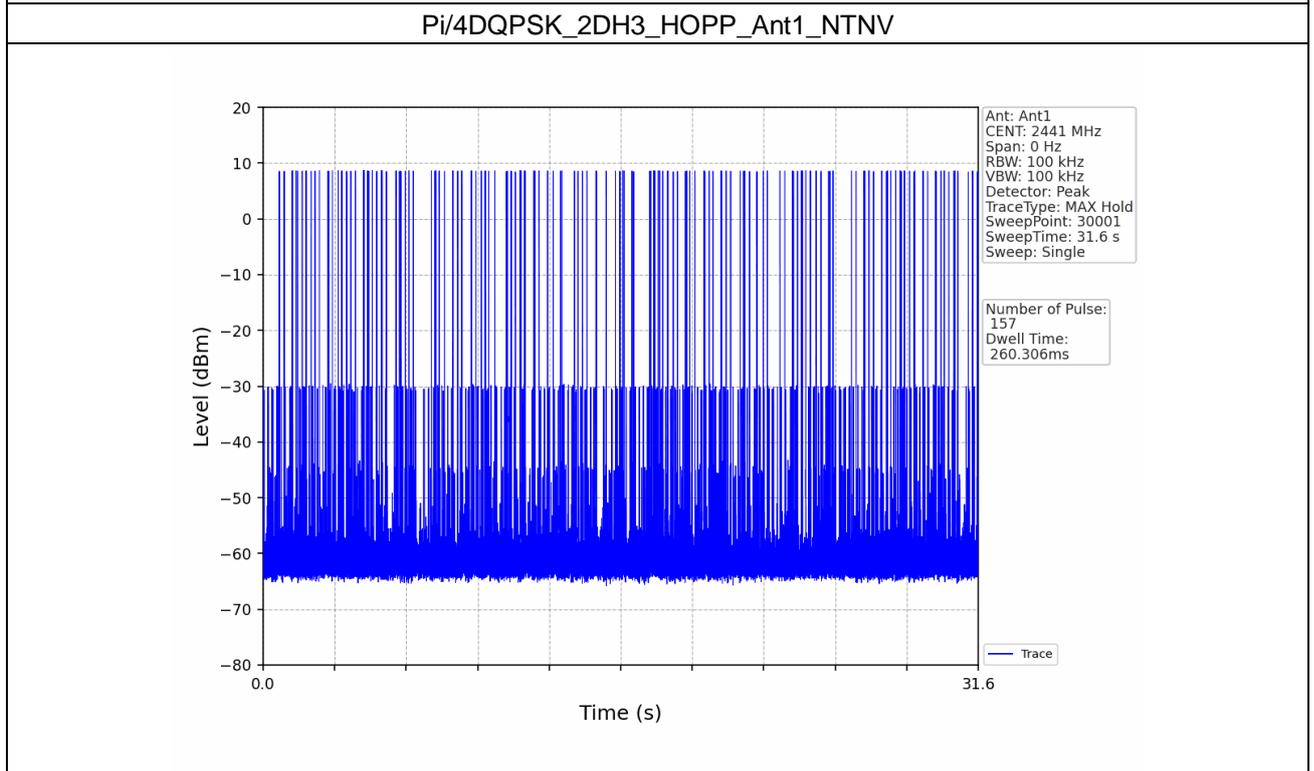
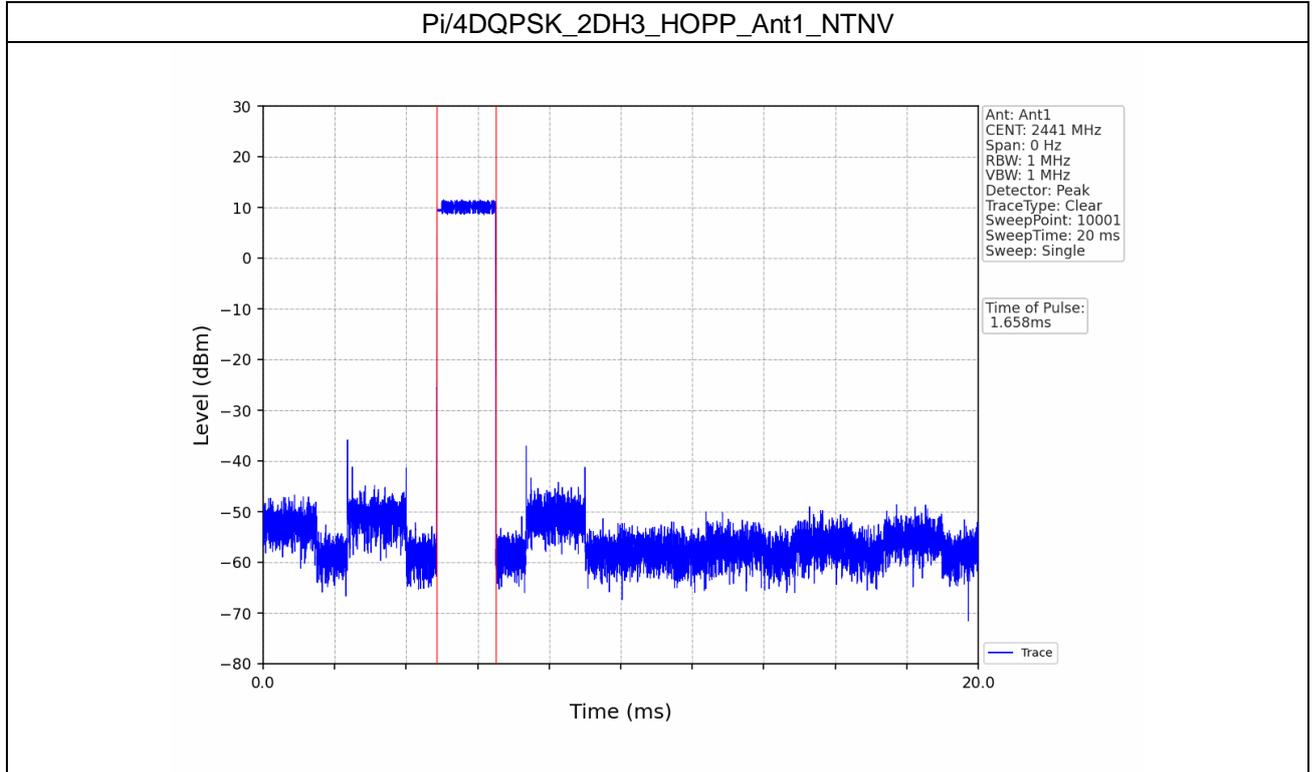
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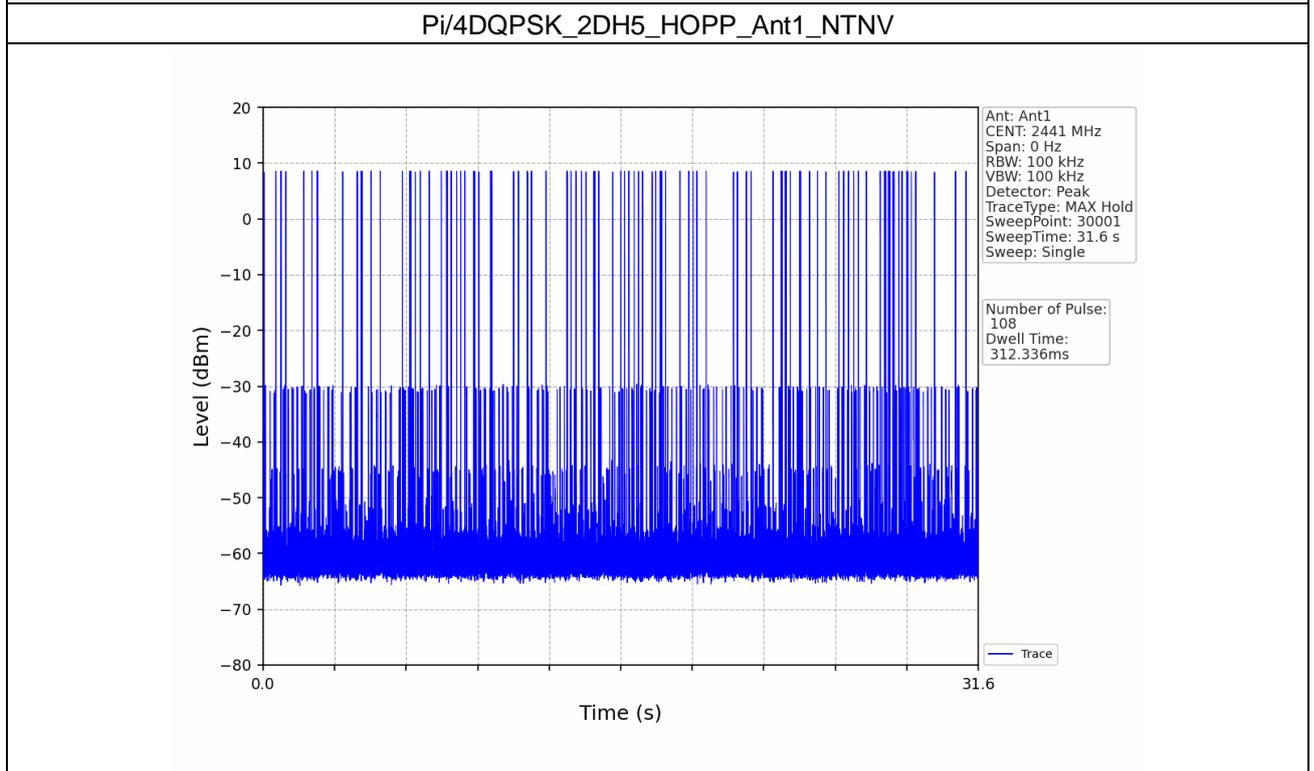
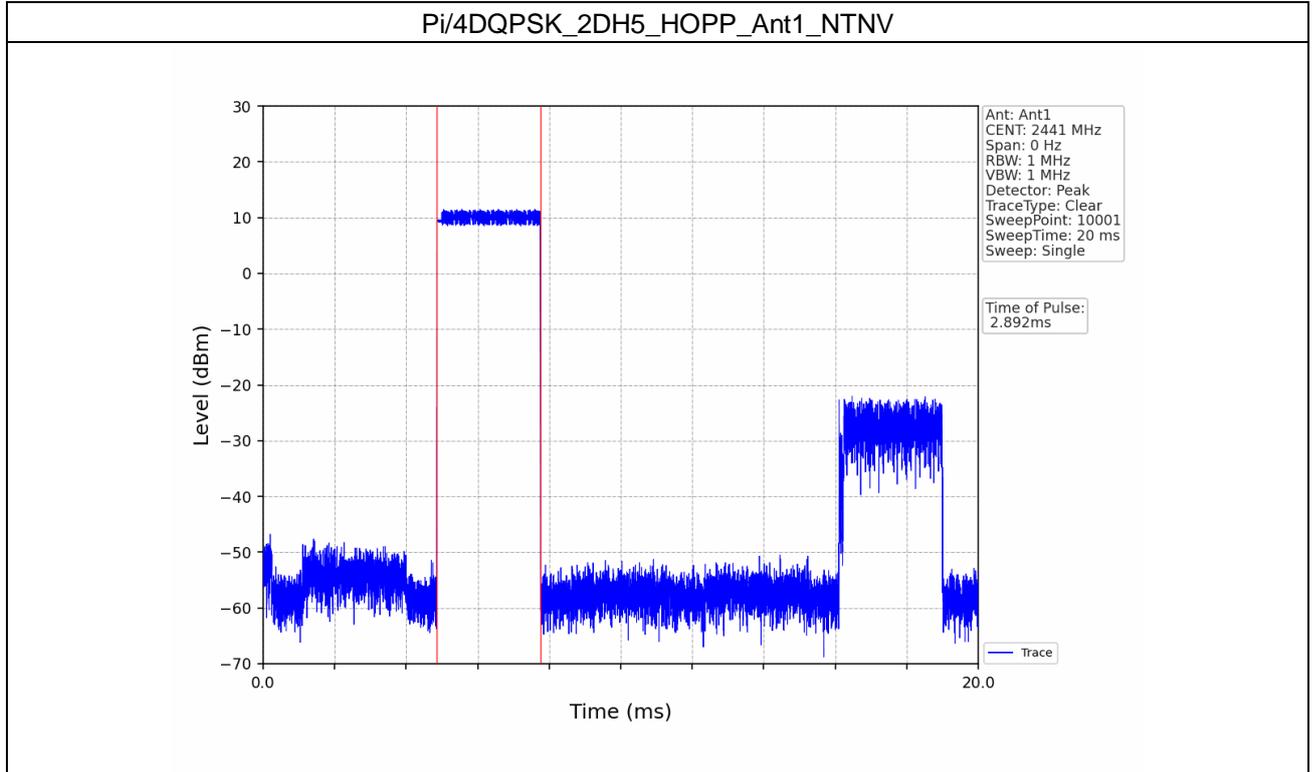
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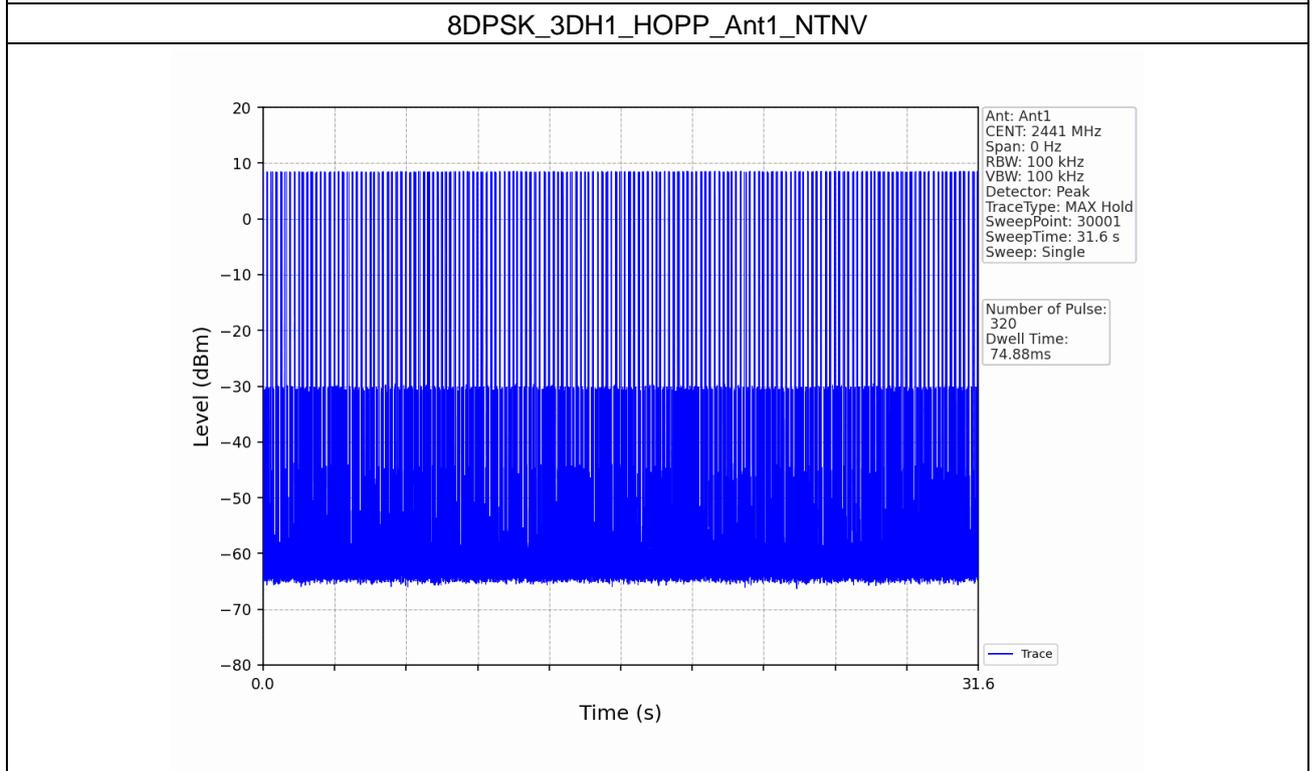
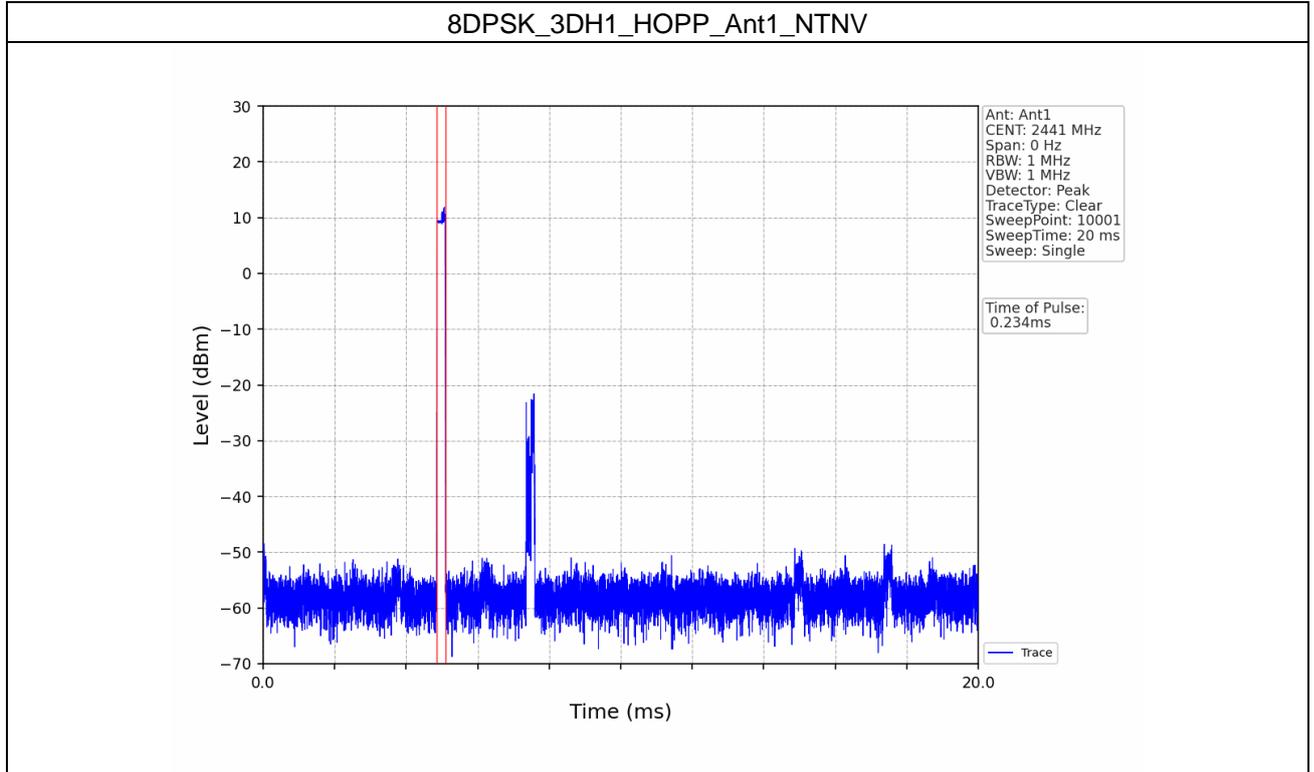
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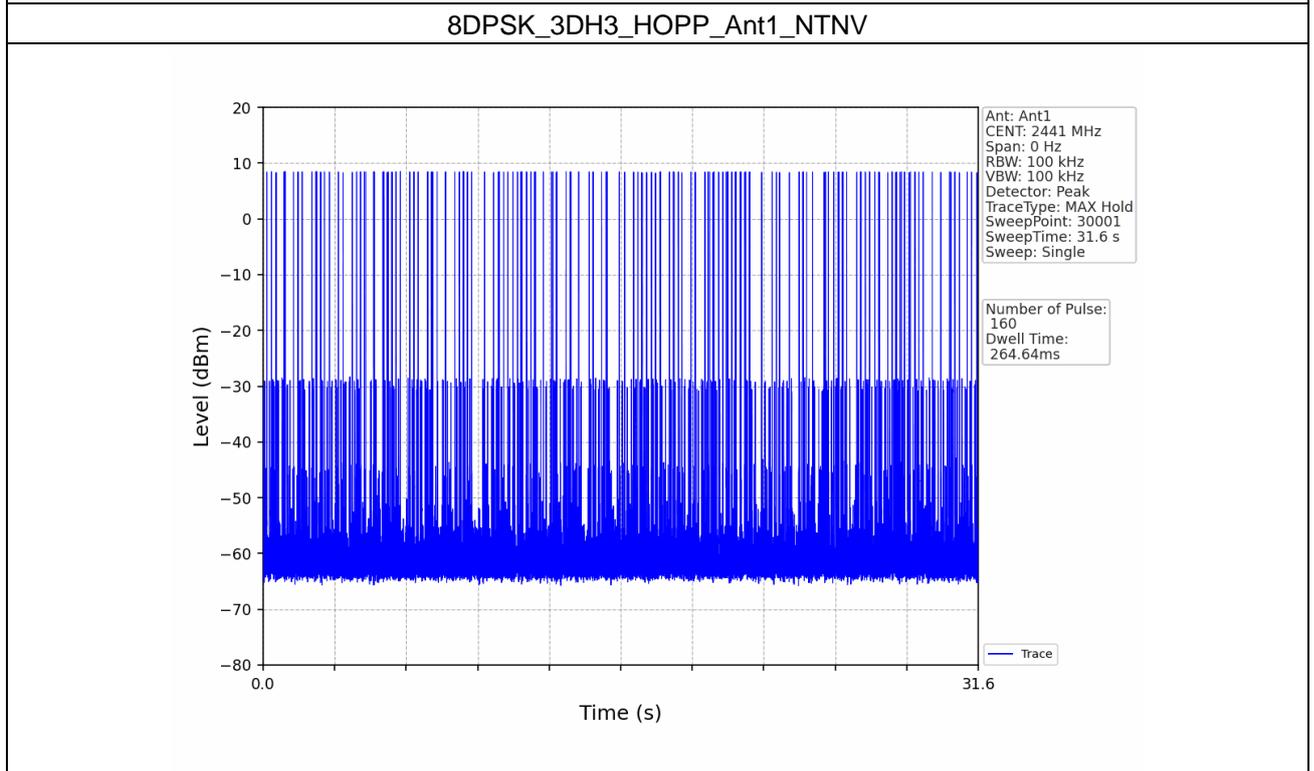
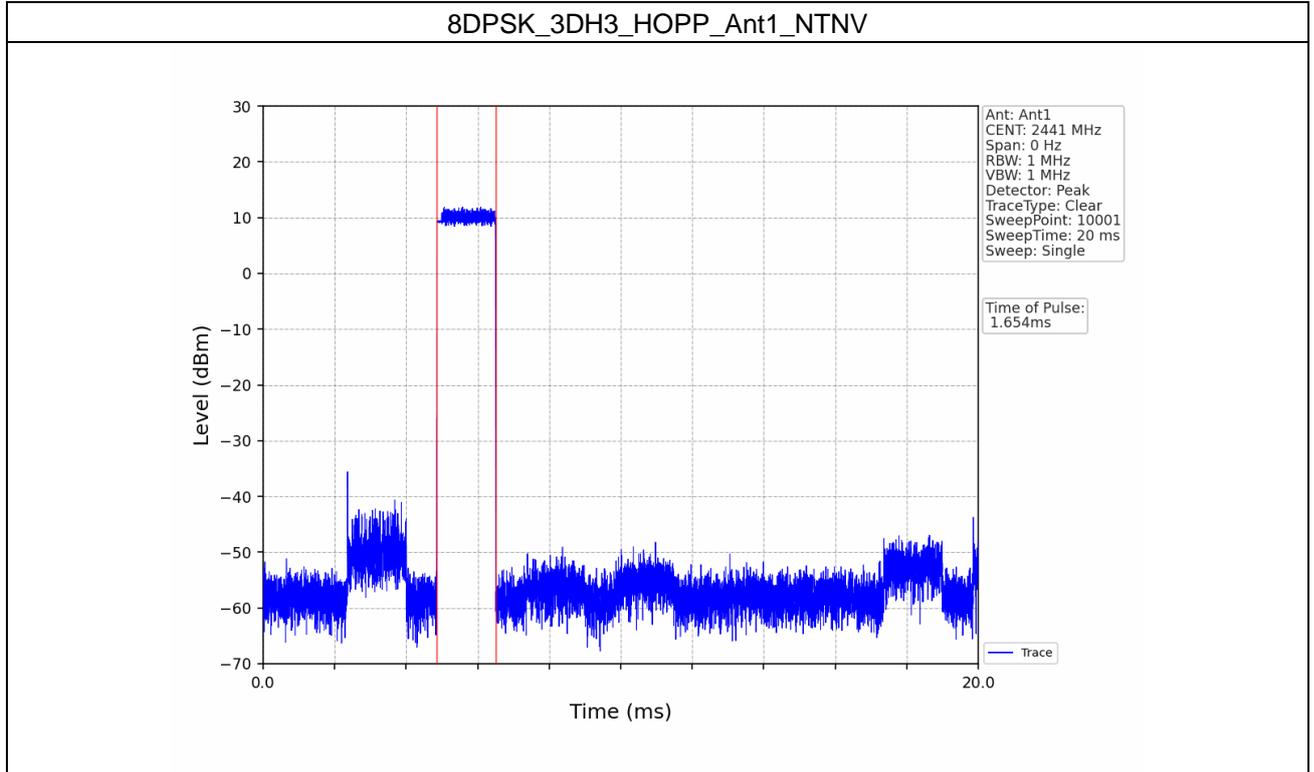
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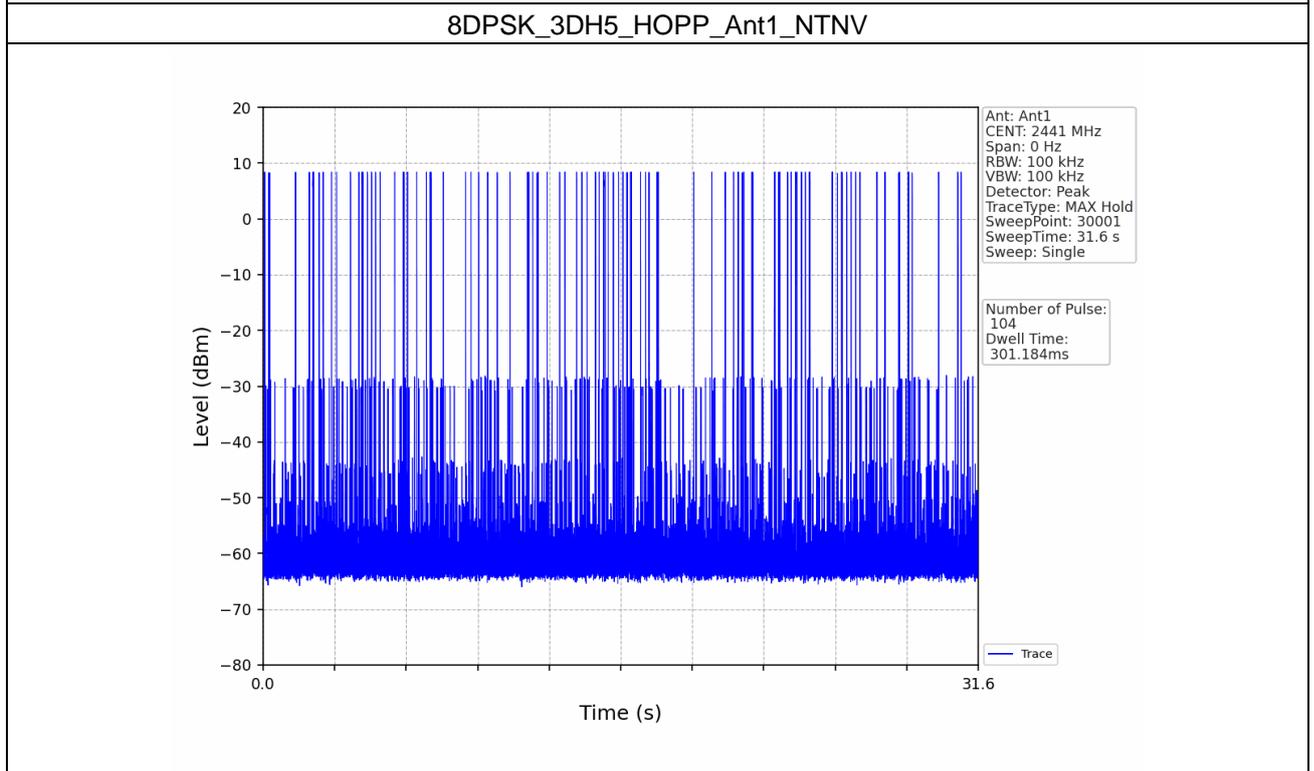
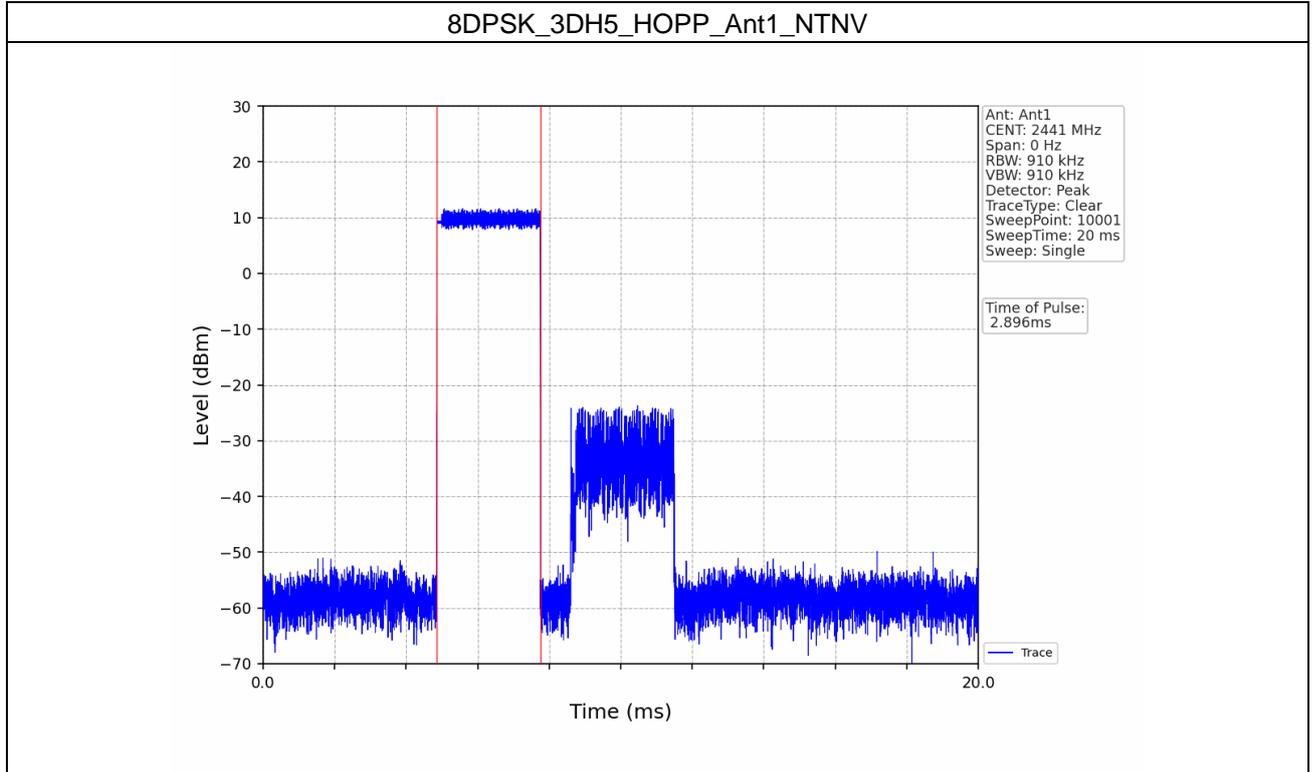
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7. Unwanted Emissions In Non-restricted Frequency Bands

7.1 Ref

7.1.1 Test Result

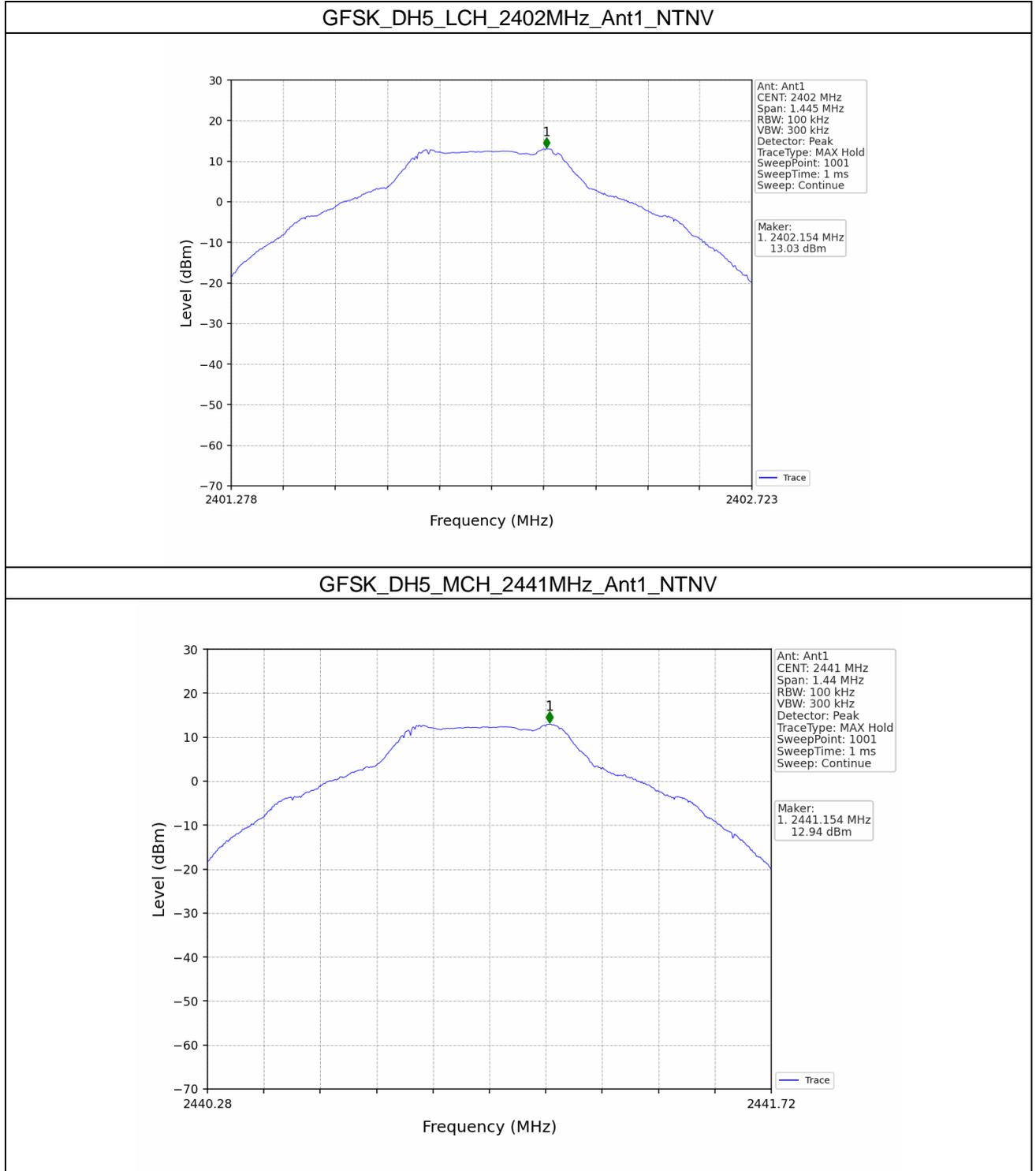
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	1	13.03
		2441	DH5	1	12.94
		2480	DH5	1	12.63
Pi/4DQPSK	SISO	2402	2DH5	1	9.57
		2441	2DH5	1	9.47
		2480	2DH5	1	9.18
8DPSK	SISO	2402	3DH5	1	9.56
		2441	3DH5	1	8.98
		2480	3DH5	1	9.22



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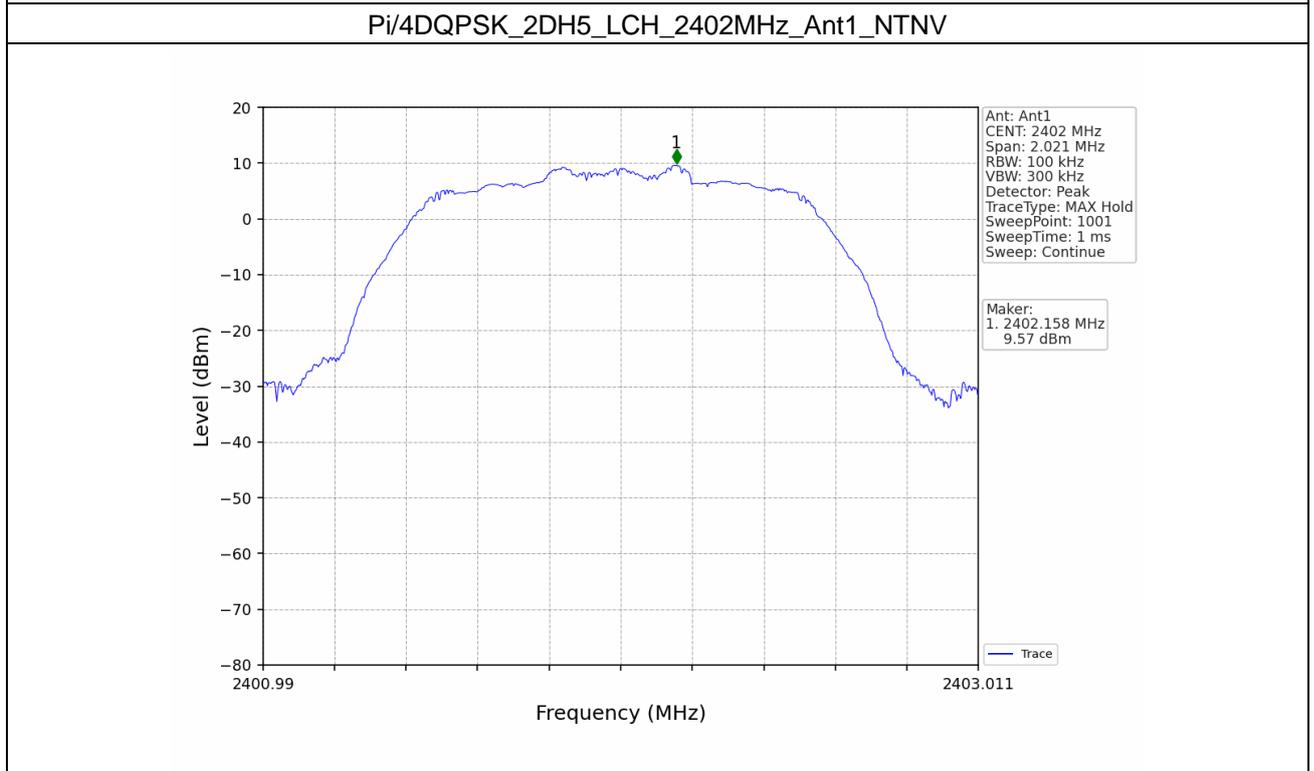
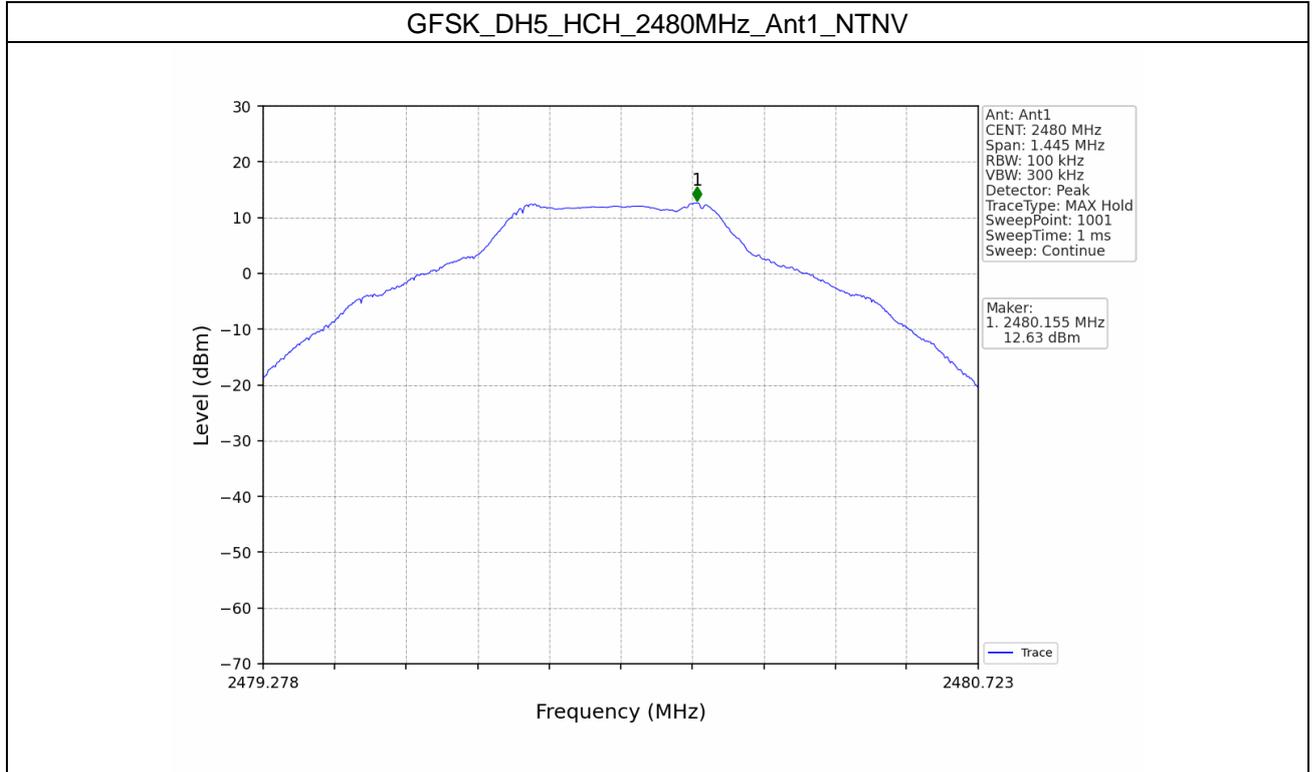
7.1.2 Test Graph



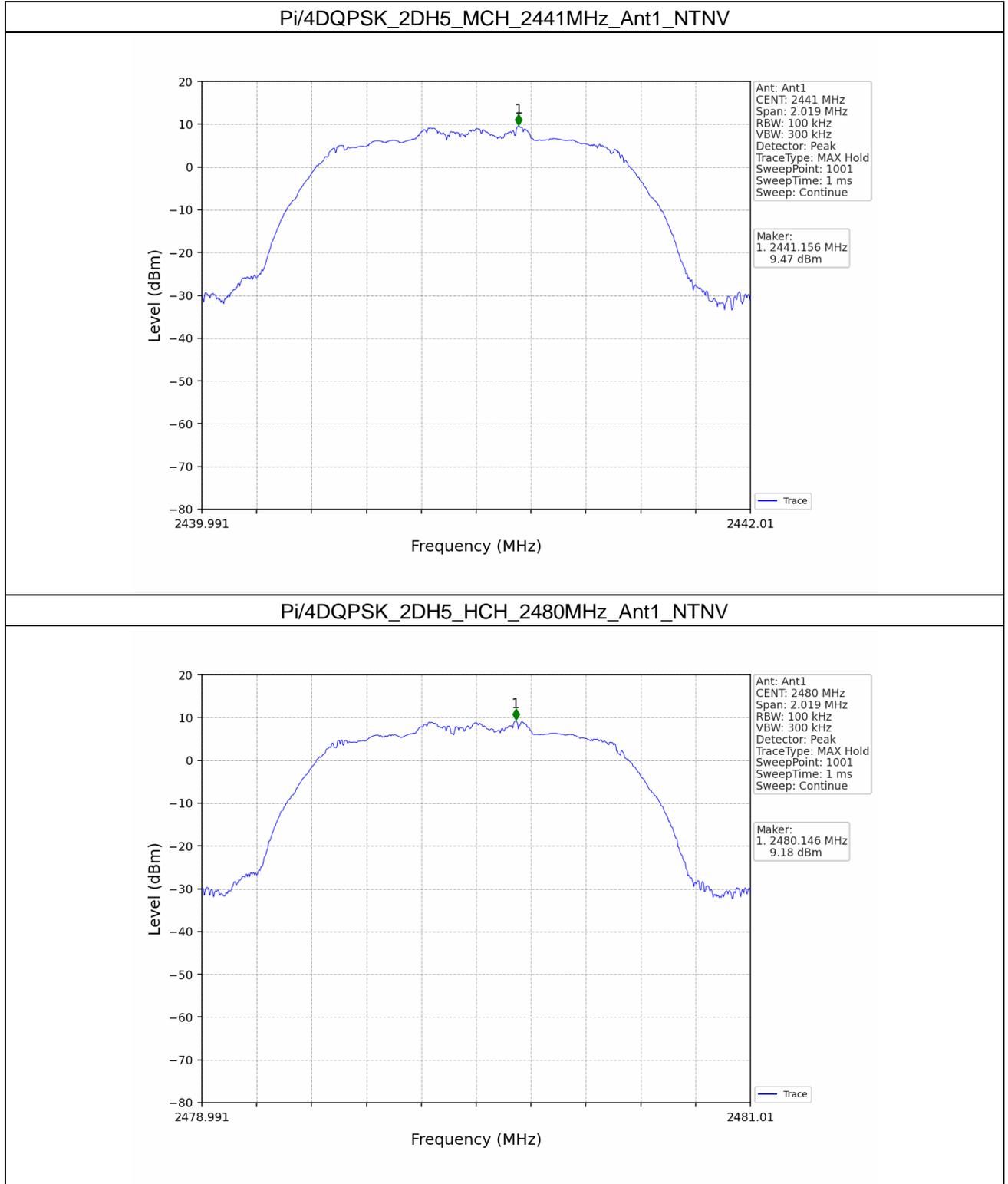
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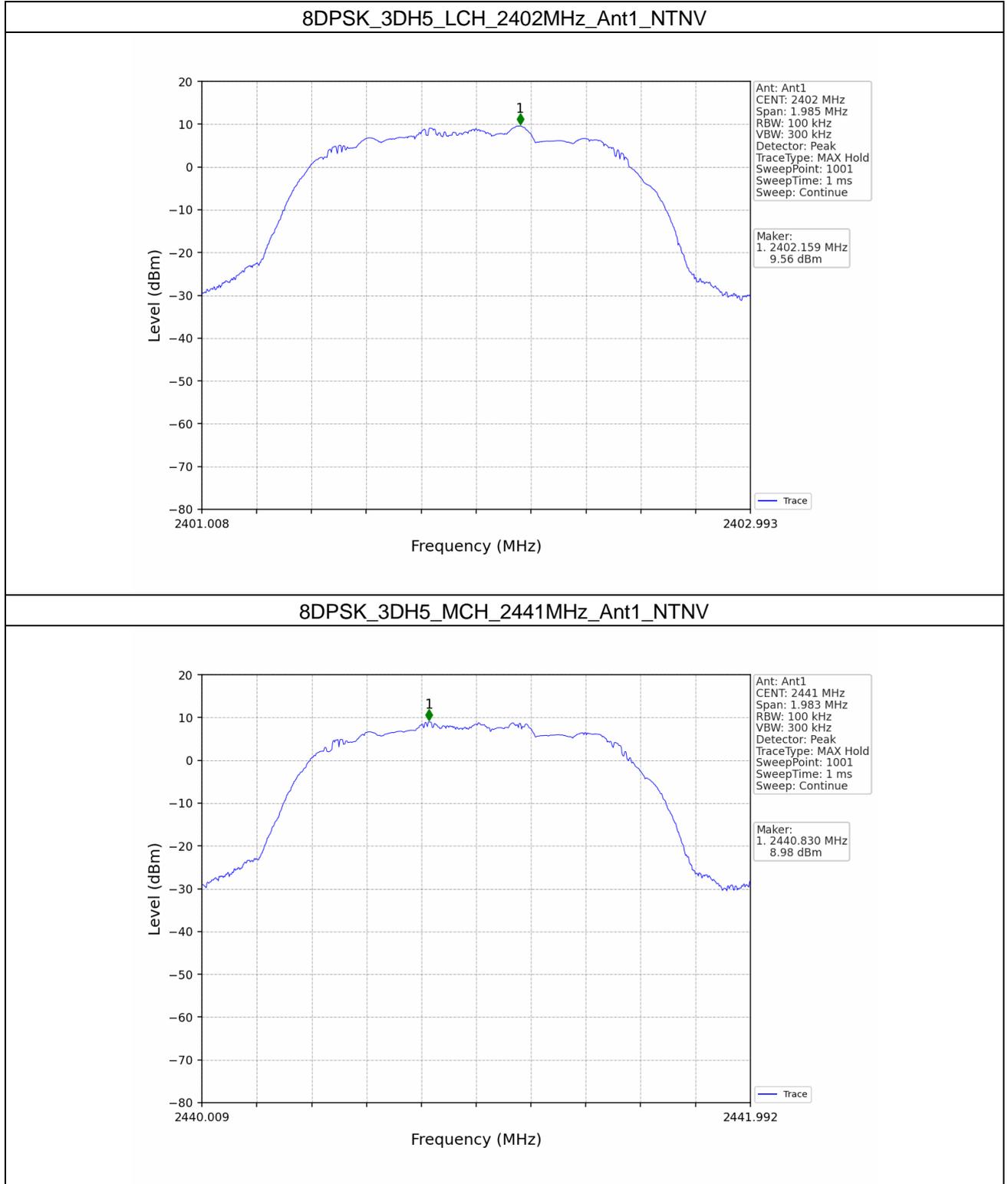
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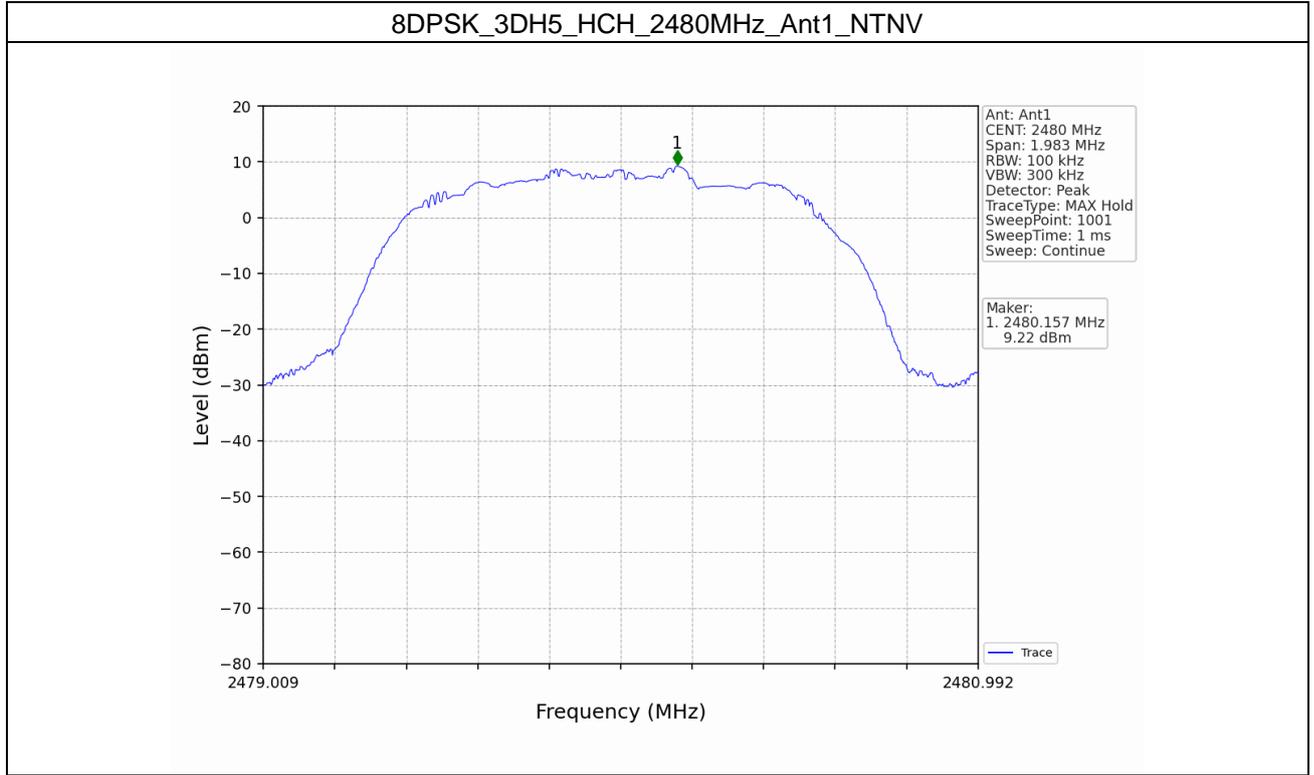
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7.2 CSE

7.2.1 Test Result

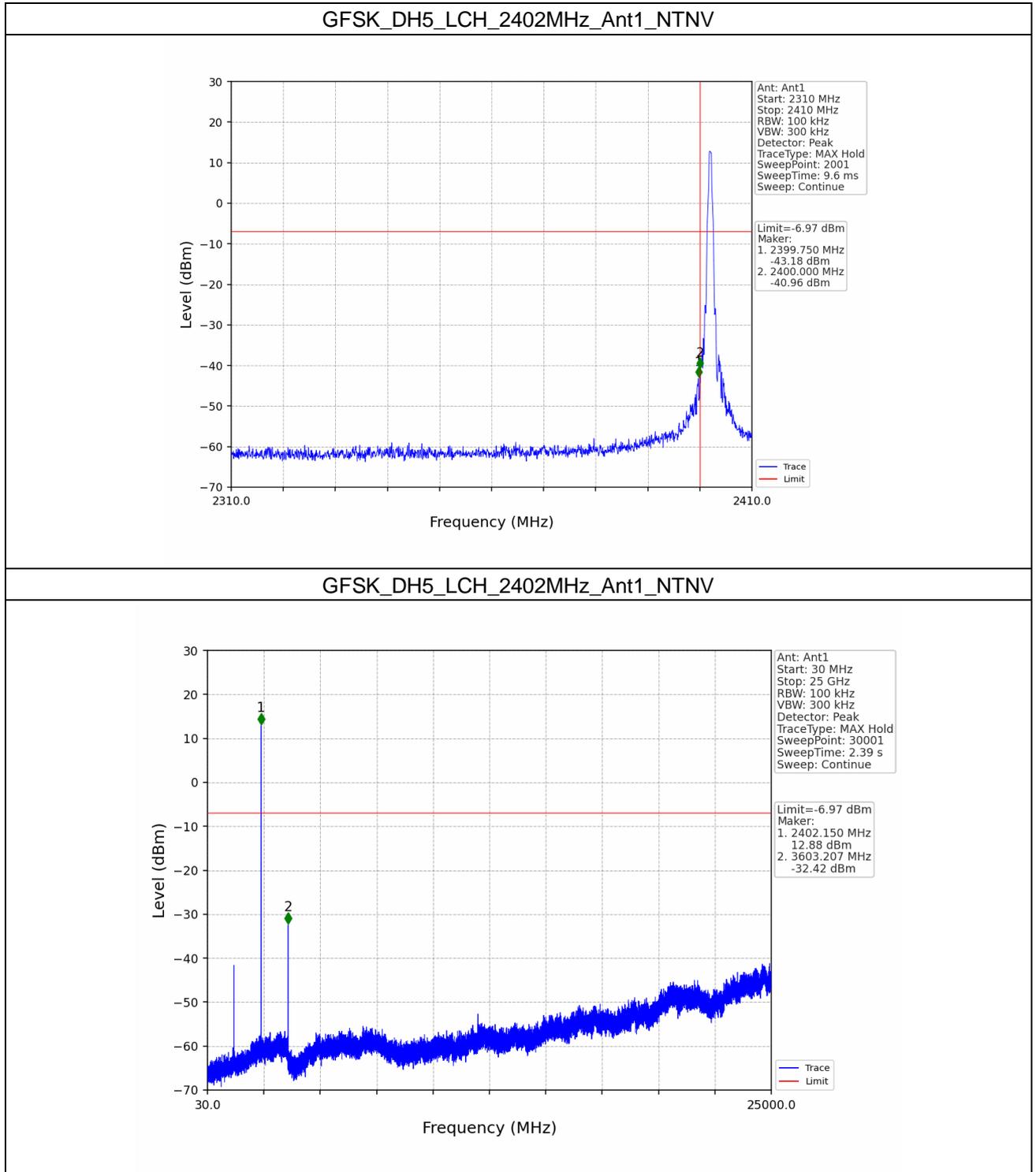
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	13.03	-6.97	Pass
		2441	DH5	1	13.03	-6.97	Pass
		2480	DH5	1	13.03	-6.97	Pass
		HOPP	DH5	1	13.03	-6.97	Pass
					13.03	-6.97	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	9.57	-10.43	Pass
		2441	2DH5	1	9.57	-10.43	Pass
		2480	2DH5	1	9.57	-10.43	Pass
		HOPP	2DH5	1	9.57	-10.43	Pass
					9.57	-10.43	Pass
8DPSK	SISO	2402	3DH5	1	9.56	-10.44	Pass
		2441	3DH5	1	9.56	-10.44	Pass
		2480	3DH5	1	9.56	-10.44	Pass
		HOPP	3DH5	1	9.56	-10.44	Pass
					9.56	-10.44	Pass



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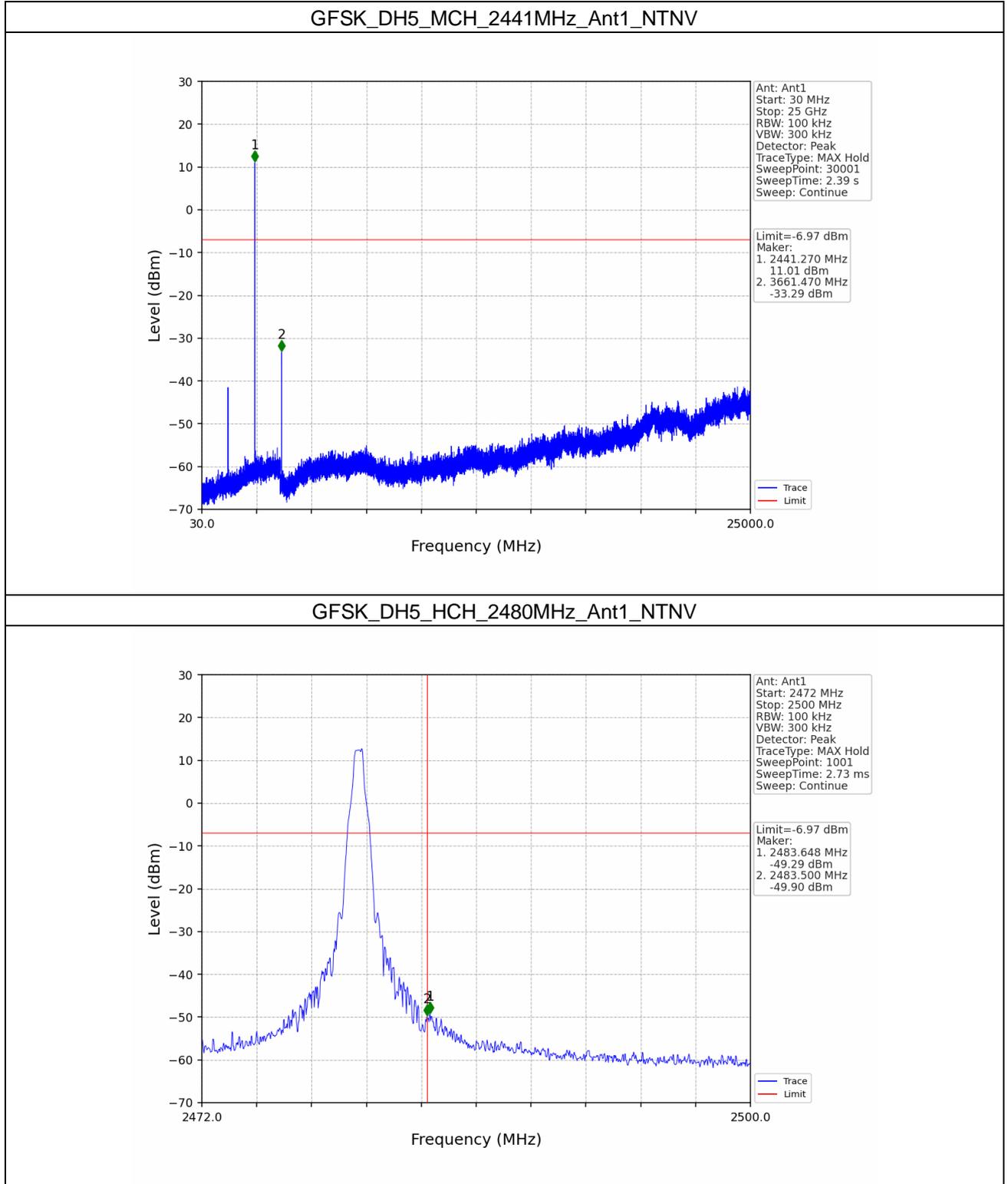
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7.2.2 Test Graph

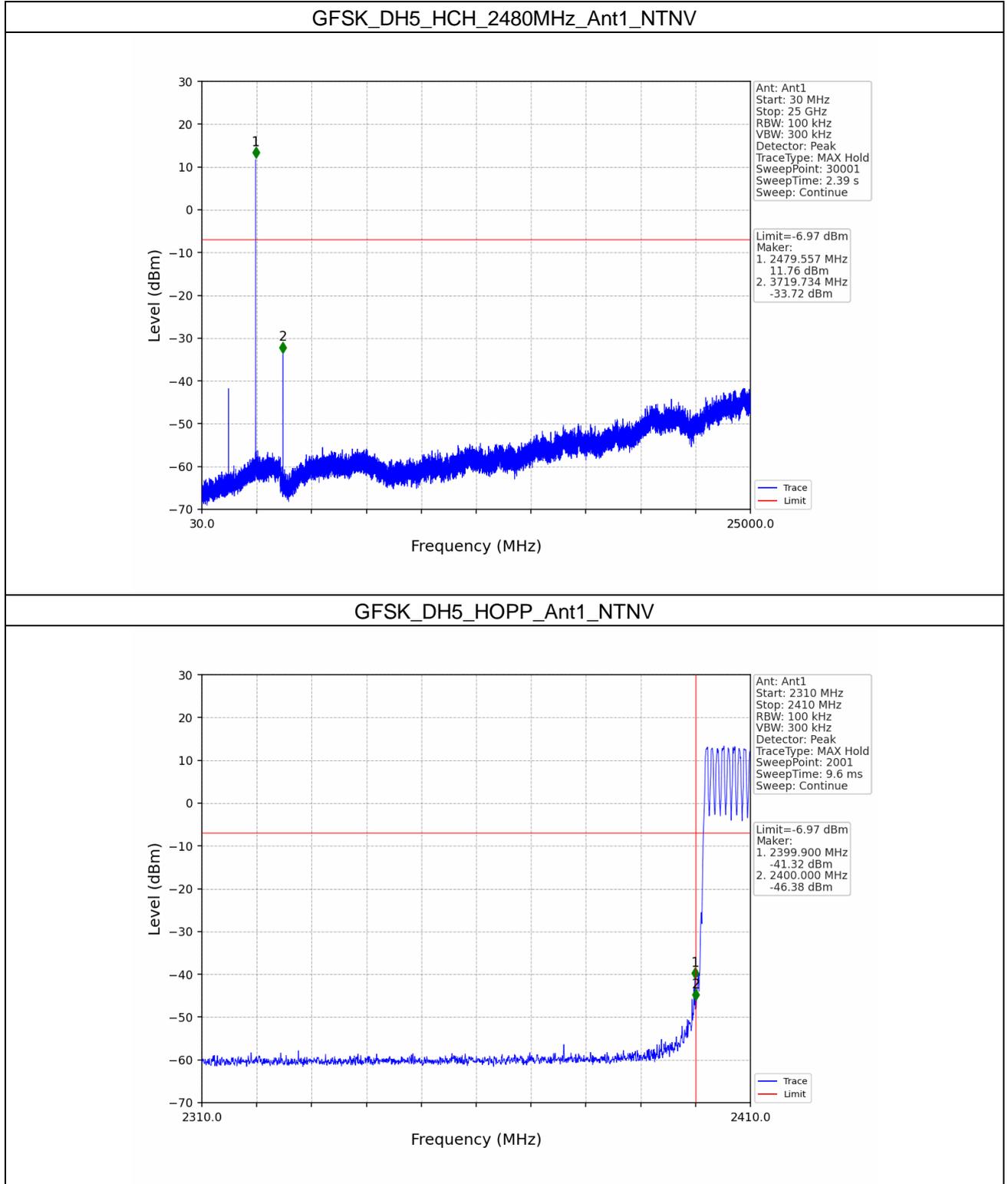


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