

TEST REPORT

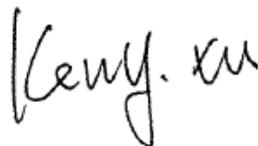
Application No.: SZCR2409003493WM
Applicant: Xiaomi Communications Co., Ltd.
Address of Applicant: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085
Manufacturer: Xiaomi Communications Co., Ltd.
Address of Manufacturer: #019, 9th Floor, Building 6, 33 Xi'erqi Middle Road, Haidian District, Beijing, China, 100085

Equipment Under Test (EUT):

EUT Name: Mobile Phone
Model No.: 24117RK2CG
Trade Mark: POCO
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2024-09-10
Date of Test: 2024-09-28 to 2024-10-22
Date of Issue: 2024-10-30

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		2024-10-30		Original

Authorized for issue by:			
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		<i>Eric Fu</i>	
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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 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
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
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



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3 Contents

	Page
1 Cover Page	1
2 Test Summary	3
3 Contents	4
4 General Information	6
4.1 Details of E.U.T.	6
4.2 Description of Support Units	6
4.3 Measurement Uncertainty	7
4.4 Test Location	8
4.5 Test Facility.....	8
4.6 Deviation from Standards	8
4.7 Abnormalities from Standard Conditions	8
5 Equipment List	9
6 Radio Spectrum Technical Requirement	11
6.1 Antenna Requirement	11
6.1.1 Test Requirement:	11
6.1.2 Conclusion	11
6.2 Other requirements Frequency Hopping Spread Spectrum System Hopping Sequence	12
6.2.1 Test Requirement:	12
6.2.2 Conclusion	12
7 Radio Spectrum Matter Test Results	14
7.1 Conducted Emissions at AC Power Line (150kHz-30MHz)	14
7.1.1 E.U.T. Operation	14
7.1.2 Test Mode Description	14
7.1.3 Test Setup Diagram	15
7.1.4 Measurement Procedure and Data.....	15
7.2 Radiated Emissions which fall in the restricted bands	18
7.2.1 E.U.T. Operation	18
7.2.2 Test Mode Description	18
7.2.3 Test Setup Diagram	19
7.2.4 Measurement Procedure and Data.....	20
7.3 Radiated Spurious Emissions Below 1GHz.....	25
7.3.1 E.U.T. Operation	25
7.3.2 Test Mode Description	25
7.3.3 Test Setup Diagram	26
7.3.4 Measurement Procedure and Data.....	26
7.4 Radiated Spurious Emissions Above 1GHz	29
7.4.1 E.U.T. Operation	29
7.4.2 Test Mode Description	29
7.4.3 Test Setup Diagram	29



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7.4.4	Measurement Procedure and Data.....	30
7.5	Conducted Peak Output Power	37
7.5.1	E.U.T. Operation	37
7.5.2	Test Mode Description	37
7.5.3	Test Setup Diagram	37
7.5.4	Measurement Procedure and Data.....	38
7.6	20dB Bandwidth.....	39
7.6.1	E.U.T. Operation	39
7.6.2	Test Mode Description	39
7.6.3	Test Setup Diagram	39
7.6.4	Measurement Procedure and Data.....	39
7.7	Carrier Frequencies Separation.....	40
7.7.1	E.U.T. Operation	40
7.7.2	Test Mode Description	40
7.7.3	Test Setup Diagram	40
7.7.4	Measurement Procedure and Data.....	40
7.8	Hopping Channel Number	41
7.8.1	E.U.T. Operation	41
7.8.2	Test Mode Description	41
7.8.3	Test Setup Diagram	41
7.8.4	Measurement Procedure and Data.....	41
7.9	Dwell Time	42
7.9.1	E.U.T. Operation	42
7.9.2	Test Mode Description	42
7.9.3	Test Setup Diagram	42
7.9.4	Measurement Procedure and Data.....	42
7.10	Conducted Band Edges Measurement	43
7.10.1	E.U.T. Operation.....	43
7.10.2	Test Mode Description	43
7.10.3	Test Setup Diagram.....	43
7.10.4	Measurement Procedure and Data.....	43
7.11	Conducted Spurious Emissions	44
7.11.1	E.U.T. Operation.....	44
7.11.2	Test Mode Description	44
7.11.3	Test Setup Diagram.....	44
7.11.4	Measurement Procedure and Data.....	44
8	Test Setup Photo.....	45
9	EUT Constructional Details (EUT Photos).....	45
10	Appendix.....	46



4 General Information

4.1 Details of E.U.T.

EUT Description:	Mobile Phone
Model No.:	24117RK2CG
Trade Mark:	POCO
Hardware Version:	135100011
Software Version:	Xiaomi HyperOS 2.0
Power Supply:	3.91V from internal rechargeable battery which can be charged by adapter.
Operation Frequency:	2400MHz~2483.5MHz $f_c = 2402 \text{ MHz} + N * 1 \text{ MHz}$, where: - f_c = "Operating Frequency" in MHz, -N = "Channel Number" with the range from 0 to 78.
Bluetooth version:	Bluetooth V5.4
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channel:	79
Hopping Channel Type:	Adaptive Frequency Hopping systems
Antenna Type:	PIFA Antenna
Antenna Gain:	-2dBi(Ant16); -2dBi(Ant7); -2dBi(Ant16&Ant7)
	Note: The antenna gain are derived from the gain information report provided by the manufacturer.
RF Cable:	2000MHz ~ 3000MHz (1.1dB)
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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 Emissions at AC Power Line (150kHz-30MHz)	± 3.1dB
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)
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

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.



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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



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5 Equipment List

Conducted Emissions at AC Power Line (150kHz-30MHz)					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Shielding Room	ZhongYu Electron	GB-88	SEM001-06	2022-05-14	2025-05-13
EMI Test Receiver	Rohde&Schwarz	ESR	SZ-WRG-M-047	2024-01-30	2025-01-29
Measurement Software	AUDIX	e3 V8.2014-6-27a	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM024-01	2024-07-06	2025-07-05
LISN	Rohde&Schwarz	ENV216	SEM007-01	2024-08-15	2025-08-14
LISN	ETS-LINDGREN	3816/2	SEM007-02	2024-03-14	2025-03-13

Radiated Emissions which fall in the restricted bands					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

Radiated Spurious Emissions Below 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Loop Antenna	ETS-Lindgren	6502	SEM003-08	2023-11-20	2025-11-19
3m Semi-Anechoic Chamber	ETS-LINDGREN	N/A	SEM001-01	2023-06-19	2026-06-18
MXE EMI Receiver	Agilent Technologies	N9038A	SEM004-15	2024-08-14	2025-08-13
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2023-09-16	2025-09-15
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2024-03-14	2025-03-13
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2024-07-06	2025-07-05



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Report No.: SZCR240900349303

Page: 10 of 231

Radiated Spurious Emissions Above 1GHz					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Signal & Spectrum Analyzer	Rohde & Schwarz	FSV	SZ-WRG-M-048	2024-01-30	2025-01-29
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2024-01-30	2025-01-29
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2024-01-30	2025-01-29
Double Ridge Horn Antenna 1GHz-18GHz	SCHWARZBECK	BBHA 9120 D	SZ-WRG-M-055	2023-12-21	2025-12-20
SHF-EHF Horn 15GHz-40GHz	SCHWARZBECK	BBHA 9170	SZ-WRG-M-056	2023-12-25	2025-12-24
RSE Test Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Chamber	CRTSGSSAC966	N/A	SZ-WRG-C-063	2022-01-05	2025-01-04
Humidity and Temperature Indicator	deli	8838	SEM002-46	2024-07-24	2025-07-23

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2024-03-27	2025-03-26
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2024-03-14	2025-03-13
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2024-08-14	2025-08-13
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2024-03-14	2025-03-13
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2024-07-06	2025-07-05
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2024-03-27	2025-03-26

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2024-07-24	2025-07-23
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2024-07-24	2025-07-23
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2024-03-18	2025-03-17



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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 an PIFA Antenna, and the connection port is fixed with glue, and the antenna cannot be replaced.

The best-case gain of the antenna is -2dBi(Ant16); -2dBi(Ant7); -2dBi(Ant16&Ant7).*

**Note:*

The antenna gain are derived from the gain information report provided by the manufacturer.

Remark:

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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.

Compliance for section 15.247(h):



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

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR240900349303

Page: 13 of 231

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: 23.9 °C

Humidity: 49.6 % RH

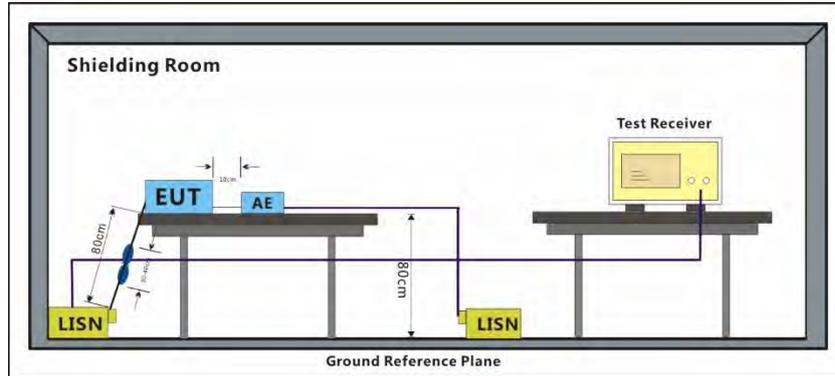
Atmospheric Pressure: 1020 mbar

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.



7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

- 1) The mains terminal disturbance voltage test was conducted in a shielded room.
- 2) The EUT was connected to AC power source through a LISN 1 (Line Impedance Stabilization Network) which provides a 50ohm/50μH + 5ohm linear impedance. The power cables of all other units of the EUT were connected to a second LISN 2, which was bonded to the ground reference plane in the same way as the LISN 1 for the unit being measured. A multiple socket outlet strip was used to connect multiple power cables to a single LISN provided the rating of the LISN was not exceeded.
- 3) The tabletop EUT was placed upon a non-metallic table 0.8m above the ground reference plane. And for floor-standing arrangement, the EUT was placed on the horizontal ground reference plane.
- 4) The test was performed with a vertical ground reference plane. The rear of the EUT shall be 0.4 m from the vertical ground reference plane. The vertical ground reference plane was bonded to the horizontal ground reference plane. The LISN 1 was placed 0.8 m from the boundary of the unit under test and bonded to a ground reference plane for LISNs mounted on top of the ground reference plane. This distance was between the closest points of the LISN 1 and the EUT. All other units of the EUT and associated equipment was at least 0.8 m from the LISN 2.
- 5) In order to find the maximum emission, the relative positions of equipment and all of the interface cables must be changed according to ANSI C63.10 on conducted measurement.

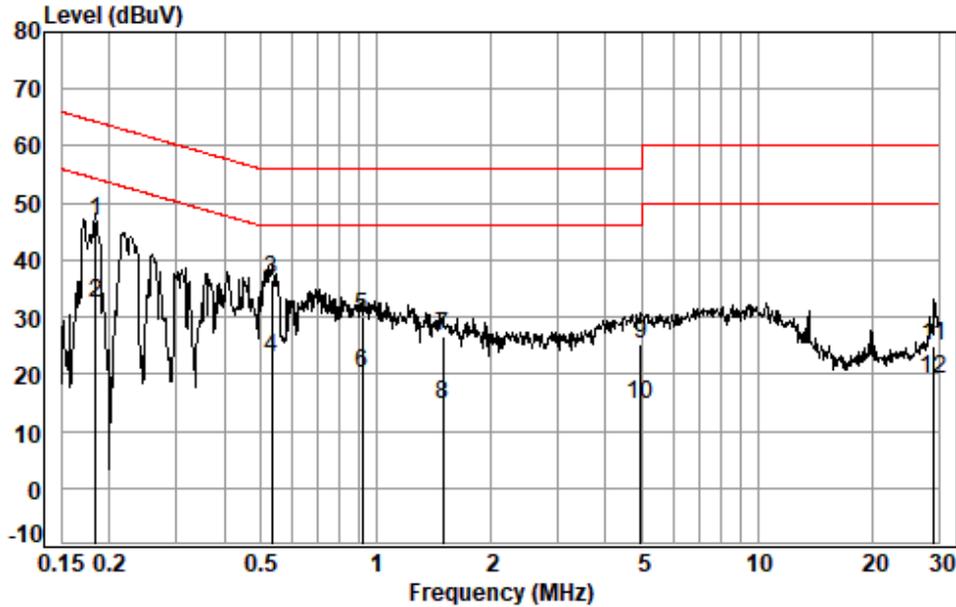
Remark: Level=Read Level+ Cable Loss+ LISN Factor



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Test Mode: 00; Line: Live line



Site : Shielding Room
 Condition: Line
 Job No. : 03493WM
 Test mode: 00

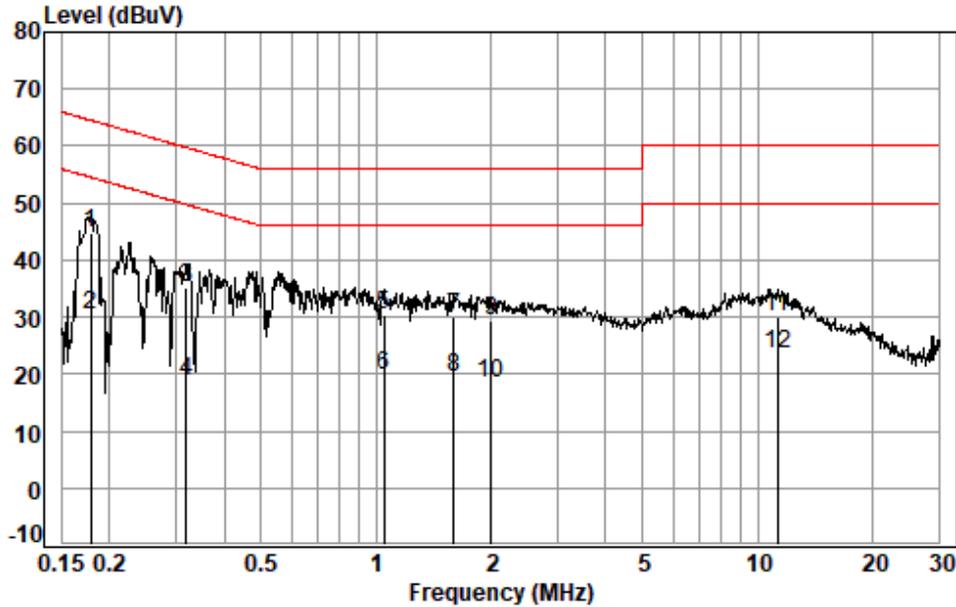
	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 *	0.1844	0.06	9.80	36.83	46.69	64.28	-17.59 QP
2 *	0.1844	0.06	9.80	22.42	32.28	54.28	-22.00 Average
3	0.5322	0.08	9.71	26.74	36.53	56.00	-19.47 QP
4	0.5322	0.08	9.71	13.06	22.85	46.00	-23.15 Average
5	0.9233	0.09	9.71	20.23	30.03	56.00	-25.97 QP
6	0.9233	0.09	9.71	10.16	19.96	46.00	-26.04 Average
7	1.5033	0.10	9.68	16.95	26.73	56.00	-29.27 QP
8	1.5033	0.10	9.68	4.92	14.70	46.00	-31.30 Average
9	4.9519	0.12	9.64	15.42	25.18	56.00	-30.82 QP
10	4.9519	0.12	9.64	4.99	14.75	46.00	-31.25 Average
11	29.0613	0.36	10.31	14.21	24.88	60.00	-35.12 QP
12	29.0613	0.36	10.31	8.54	19.21	50.00	-30.79 Average



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Test Mode: 00; Line: Neutral Line



Site : Shielding Room
 Condition: Neutral
 Job No. : 03493WM
 Test mode: 00

	Freq	Cable Loss	LISN Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB	dBuV	dBuV	dB	
1 *	0.1787	0.06	9.82	35.04	44.92	64.55	-19.63 QP
2 *	0.1787	0.06	9.82	20.40	30.28	54.55	-24.27 Average
3	0.3183	0.07	9.78	25.47	35.32	59.75	-24.43 QP
4	0.3183	0.07	9.78	8.98	18.83	49.75	-30.92 Average
5	1.0485	0.09	9.73	20.71	30.53	56.00	-25.47 QP
6	1.0485	0.09	9.73	9.79	19.61	46.00	-26.39 Average
7	1.6020	0.10	9.70	20.13	29.93	56.00	-26.07 QP
8	1.6020	0.10	9.70	9.56	19.36	46.00	-26.64 Average
9	2.0012	0.10	9.69	19.50	29.29	56.00	-26.71 QP
10	2.0012	0.10	9.69	8.71	18.50	46.00	-27.50 Average
11	11.3170	0.22	10.05	19.94	30.21	60.00	-29.79 QP
12	11.3170	0.22	10.05	13.25	23.52	50.00	-26.48 Average



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7.2 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.

7.2.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C Humidity: 50.8 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

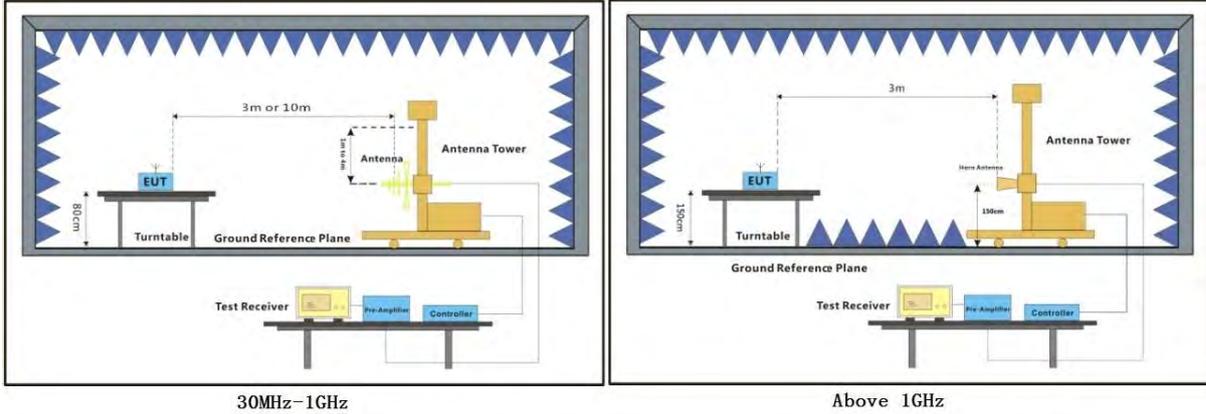
Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	TX_non-Hop mode_Keep the EUT in charging and 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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7.2.3 Test Setup Diagram



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7.2.4 Measurement Procedure and Data

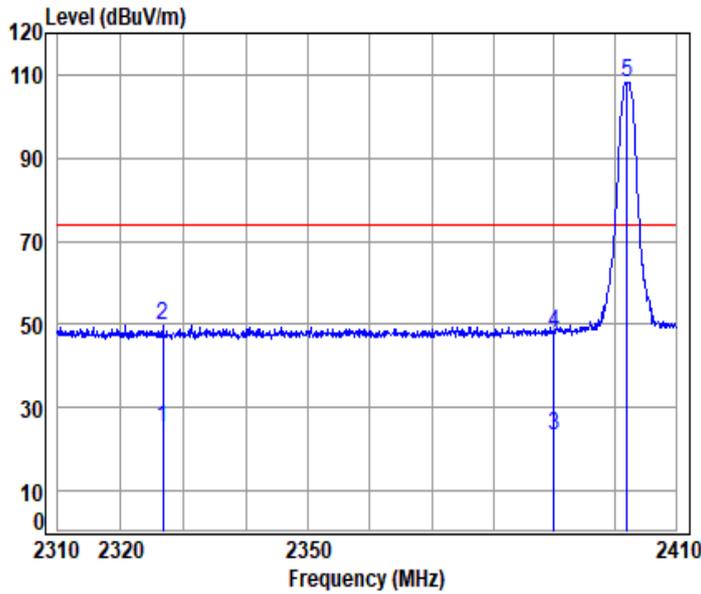
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- c. The EUT was set 3 or 10 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower.
- d. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- e. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters (for the test frequency of below 30MHz, the antenna was tuned to heights 1 meter) and the rotatable table was turned from 0 degrees to 360 degrees to find the maximum reading.
- f. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode.
- g. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak, quasi-peak or average method as specified and then reported in a data sheet.
- h. Test the EUT in the lowest channel, the middle channel, the Highest channel.
- i. The radiation measurements are performed in X, Y, Z axis positioning for Transmitting mode, and found the X axis positioning which it is the worst case.
- j. Repeat above procedures until all frequencies measured was complete.

Remark 1: 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.



BT_DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 03493WM

Mode : 2402 Band edge

: BT DH5 MIMO

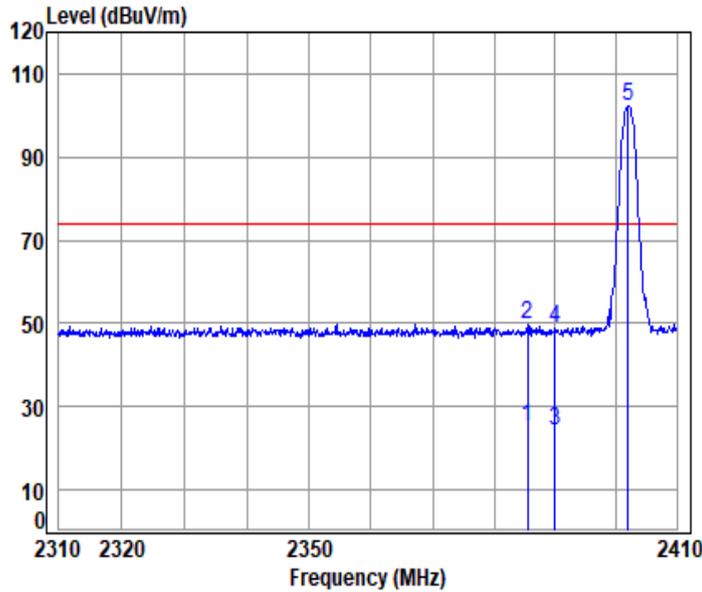
		Cable	Ant	Preamp	Read	Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB
1 av	2326.702	6.79	27.25	31.53	22.42	24.93	54.00	-29.07 Average
2	2326.702	6.79	27.25	31.53	47.18	49.69	74.00	-24.31 peak
3	2390.000	6.82	27.46	31.54	20.41	23.15	54.00	-30.85 Average
4	2390.000	6.82	27.46	31.54	45.17	47.91	74.00	-26.09 peak
5 pp	2402.000	6.84	27.50	31.54	105.53	108.33	74.00	34.33 peak



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BT_DH5_TX_CH_00_Vertical



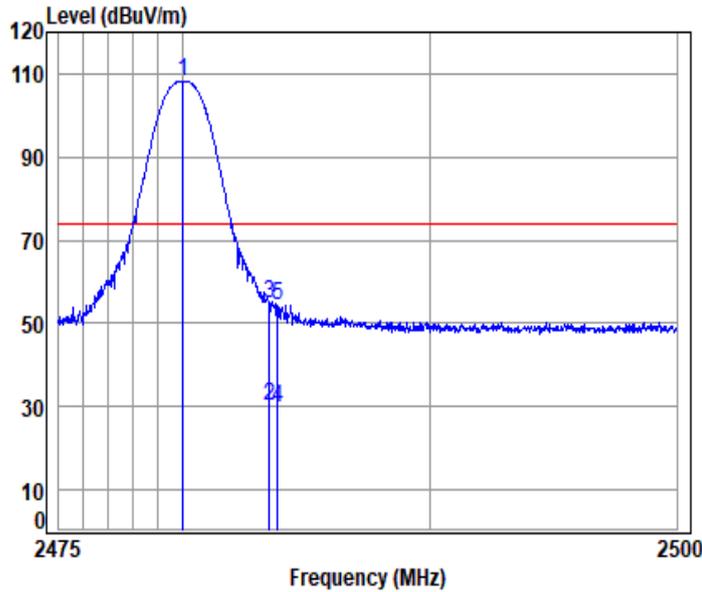
Condition: 3m VERTICAL
 Job No : 03493WM
 Mode : 2402 Band edge
 : BT DH5 MIMO

	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 av 2385.410	6.82	27.44	31.54	22.29	25.01	54.00	-28.99	Average
2 2385.410	6.82	27.44	31.54	47.05	49.77	74.00	-24.23	peak
3 2390.000	6.82	27.46	31.54	21.49	24.23	54.00	-29.77	Average
4 2390.000	6.82	27.46	31.54	46.25	48.99	74.00	-25.01	peak
5 pp 2402.000	6.84	27.50	31.54	99.24	102.04	74.00	28.04	peak



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BT_DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 03493WM

Mode : 2480 Band edge

: BT DH5 MIMO

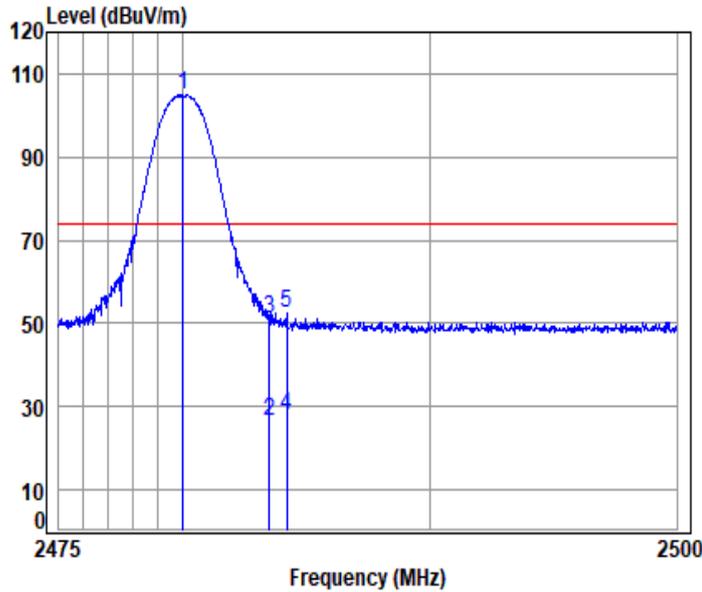
	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2480.000	7.37	27.78	31.55	104.48	108.08	74.00	34.08	peak
2 av 2483.500	7.40	27.80	31.55	26.28	29.93	54.00	-24.07	Average
3 2483.500	7.40	27.80	31.55	51.04	54.69	74.00	-19.31	peak
4 2483.821	7.40	27.80	31.55	25.86	29.51	54.00	-24.49	Average
5 2483.821	7.40	27.80	31.55	50.62	54.27	74.00	-19.73	peak



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BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL

Job No : 03493WM

Mode : 2480 Band edge

: BT DH5 MIMO

	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 pp 2480.000	7.37	27.78	31.55	101.19	104.79	74.00	30.79	peak
2 2483.500	7.40	27.80	31.55	22.69	26.34	54.00	-27.66	Average
3 2483.500	7.40	27.80	31.55	47.45	51.10	74.00	-22.90	peak
4 av 2484.196	7.40	27.81	31.55	24.15	27.81	54.00	-26.19	Average
5 2484.196	7.40	27.81	31.55	48.91	52.57	74.00	-21.43	peak



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7.3 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

7.3.1 E.U.T. Operation

Operating Environment:

Temperature: 20.2 °C Humidity: 45.2 % RH Atmospheric Pressure: 1020 mbar

7.3.2 Test Mode Description

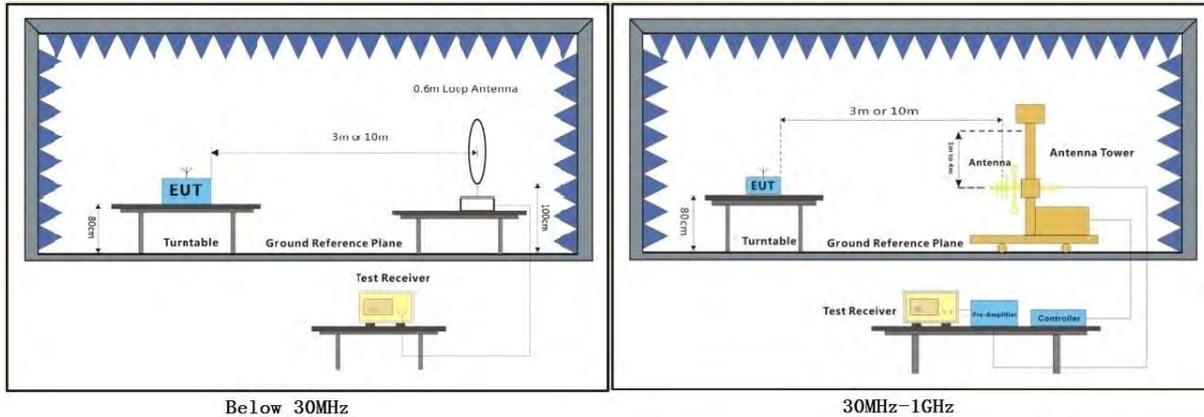
Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Pre-scan	01	TX_non-Hop mode_Keep the EUT in charging and 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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7.3.3 Test Setup Diagram



7.3.4 Measurement Procedure and Data

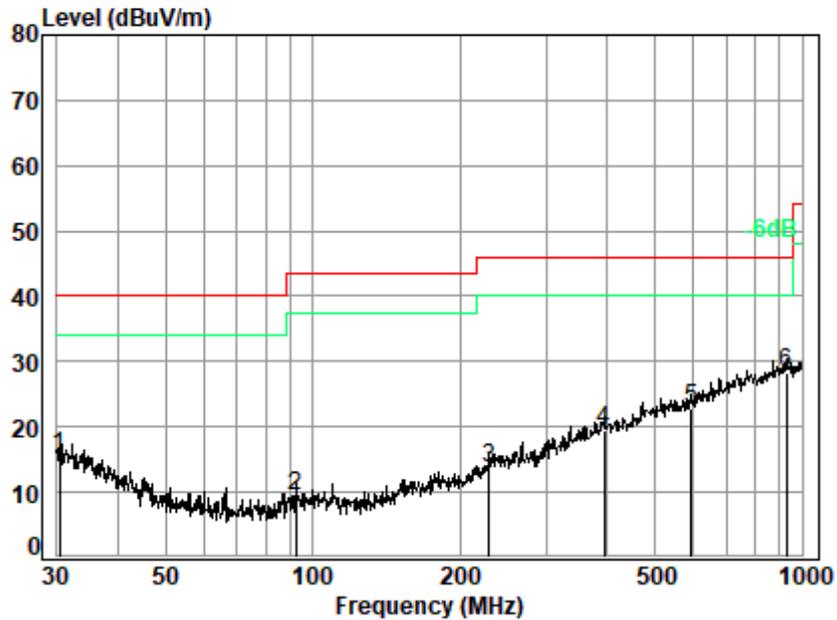
- a. For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 or 10 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 or 10 meters away from the interference-receiving antenna,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



Test Mode: 00; Polarity: Horizontal



Site : chamber
 Condition: 3m HORIZONTAL
 Job No. : 03493WM
 Test Mode: 00

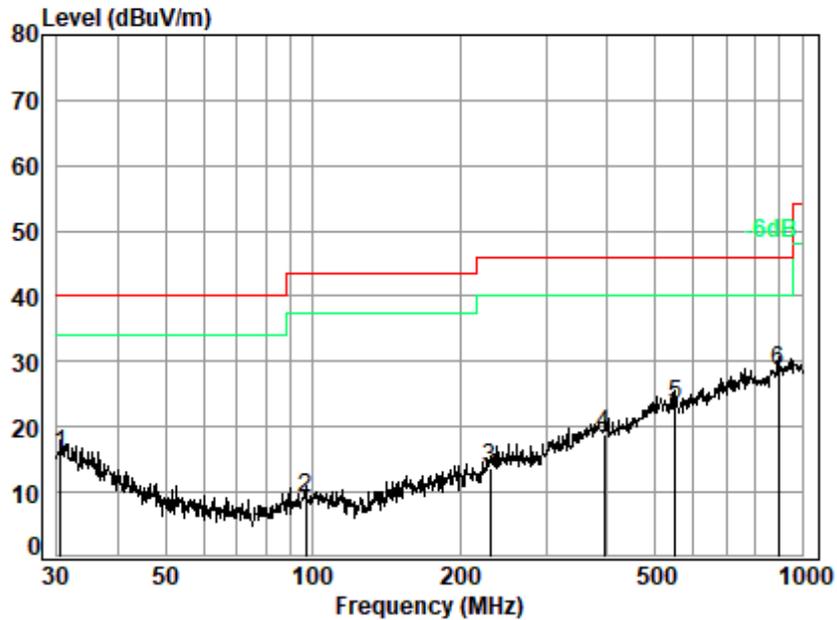
	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	30.42	21.00	0.64	27.80	21.61	15.45	40.00	-24.55 QP
2	92.46	11.94	1.14	27.63	24.11	9.56	43.50	-33.94 QP
3	229.29	16.35	1.86	27.14	22.60	13.67	46.00	-32.33 QP
4	394.85	20.70	2.53	27.31	23.58	19.50	46.00	-26.50 QP
5	593.05	24.45	3.19	28.20	23.41	22.85	46.00	-23.15 QP
6 q	929.01	28.16	4.17	26.99	23.02	28.36	46.00	-17.64 QP



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Test Mode: 00; Polarity: Vertical



Site : chamber
 Condition: 3m VERTICAL
 Job No. : 03493WM
 Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Level	Limit Level	Over Line	Limit	Over Limit	Remark
	MHz	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	dB	
1	30.53	20.95	0.65	27.80	22.09	15.89	40.00	-24.11	QP
2	96.77	12.19	1.17	27.62	23.26	9.00	43.50	-34.50	QP
3	230.10	16.46	1.86	27.14	22.40	13.58	46.00	-32.42	QP
4	394.85	20.70	2.53	27.31	23.00	18.92	46.00	-27.08	QP
5	550.95	23.78	3.05	28.01	24.65	23.47	46.00	-22.53	QP
6 q	893.86	28.02	4.07	27.16	23.70	28.63	46.00	-17.37	QP



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7.4 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

7.4.1 E.U.T. Operation

Operating Environment:

Temperature: 24.5 °C

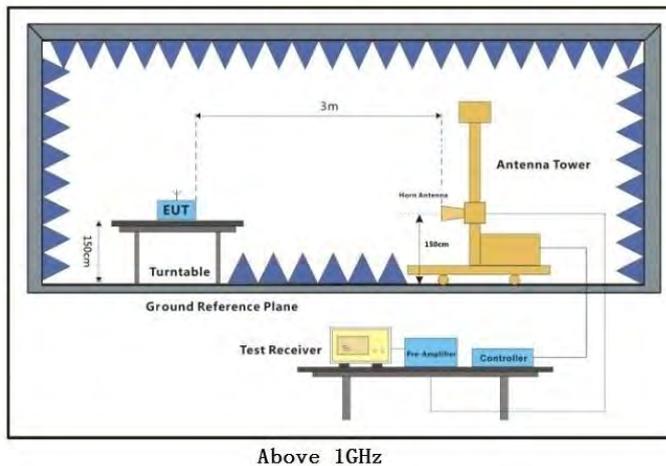
Humidity: 50.8 % RH

Atmospheric Pressure: 1020 mbar

7.4.2 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.
Pre-scan	01	TX_non-Hop mode_Keep the EUT in charging and 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.

7.4.3 Test Setup Diagram



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7.4.4 Measurement Procedure and Data

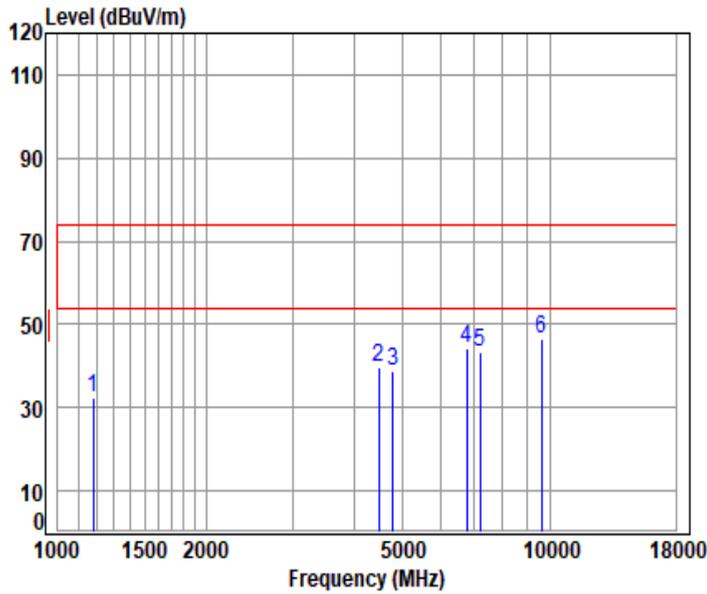
- a. For above 1GHz, the EUT was placed on the top of a rotating table 1.5 meters above the ground at a 3 meter fully-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- b. The EUT was set 3 meters away from the interference-receiving antenna, which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



BT_DH5_TX_CH_00_Horizontal



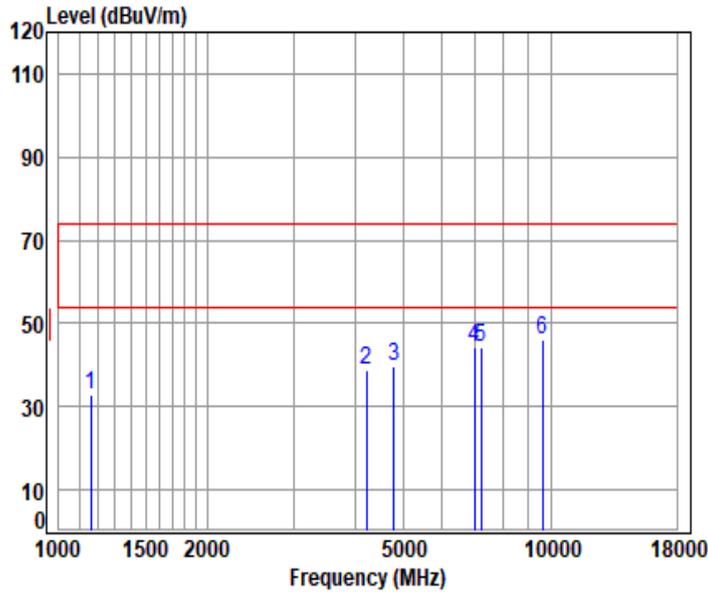
Condition: 3m HORIZONTAL
 Job No : 03493WM
 Mode : 2402 TX RSE
 : BT DH5 MIMO

	Cable Freq	Ant Loss	Preamp Factor	Read Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dB
1	1179.100	7.17	25.34	54.70	54.60	32.41	74.00 -41.59 peak
2	4495.125	8.56	31.58	55.95	55.37	39.56	74.00 -34.44 peak
3	4804.000	8.90	31.92	56.16	54.11	38.77	74.00 -35.23 peak
4	6776.265	10.94	35.81	56.74	54.35	44.36	74.00 -29.64 peak
5	7206.000	11.10	36.60	56.54	52.34	43.50	74.00 -30.50 peak
6 pp	9608.000	12.38	38.78	54.45	49.95	46.66	74.00 -27.34 peak



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BT_DH5_TX_CH_00_Vertical



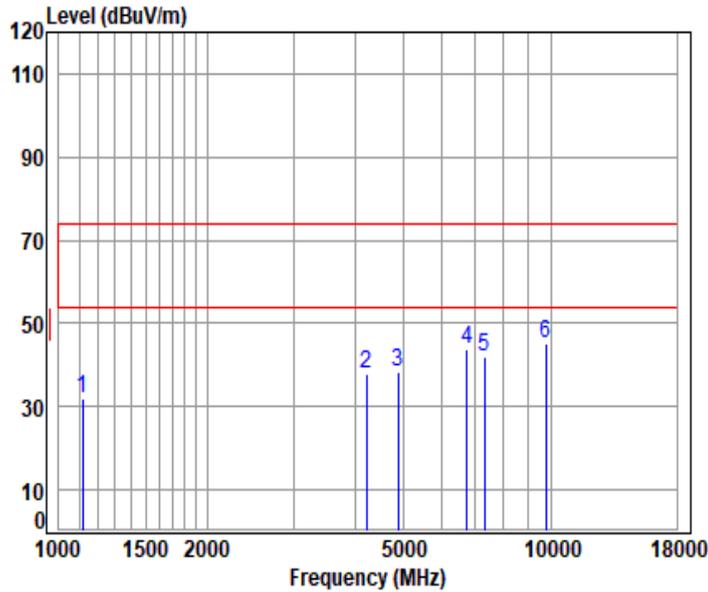
Condition: 3m VERTICAL
 Job No : 03493WM
 Mode : 2402 TX RSE
 : BT DH5 MIMO

	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	1162.182	7.16	25.38	54.70	54.97	32.81	74.00	-41.19 peak
2	4218.186	8.50	30.91	55.75	55.07	38.73	74.00	-35.27 peak
3	4804.000	8.90	31.92	56.16	55.12	39.78	74.00	-34.22 peak
4	6995.172	10.96	36.19	56.70	53.86	44.31	74.00	-29.69 peak
5	7206.000	11.10	36.60	56.54	53.04	44.20	74.00	-29.80 peak
6 pp	9608.000	12.38	38.78	54.45	49.51	46.22	74.00	-27.78 peak



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BT_DH5_TX_CH_39_Horizontal



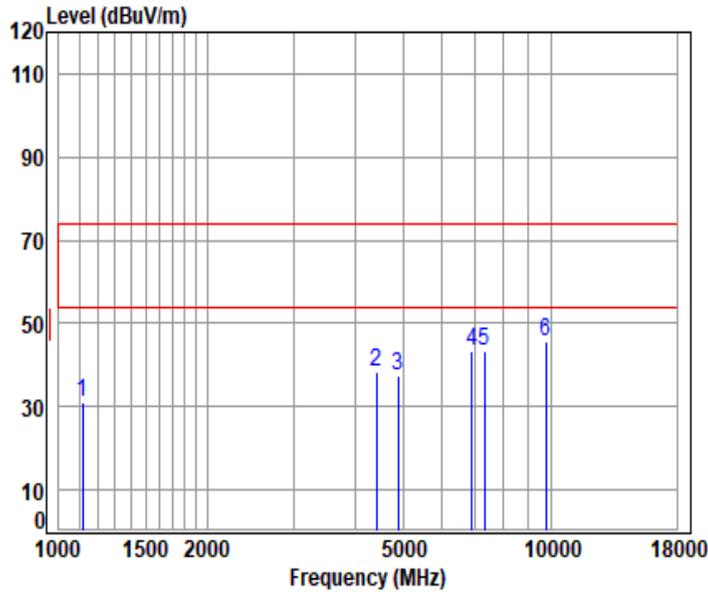
Condition: 3m HORIZONTAL
 Job No : 03493WM
 Mode : 2441 TX RSE
 : BT DH5 MIMO

	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	1119.323	7.12	25.52	54.70	54.09	32.03	74.00	-41.97 peak	
2	4218.186	8.50	30.91	55.75	54.12	37.78	74.00	-36.22 peak	
3	4882.000	8.98	32.16	56.22	53.52	38.44	74.00	-35.56 peak	
4	6737.207	10.87	35.62	56.75	54.28	44.02	74.00	-29.98 peak	
5	7323.000	11.12	36.75	56.44	50.63	42.06	74.00	-31.94 peak	
6 pp	9764.000	12.86	38.60	54.31	47.99	45.14	74.00	-28.86 peak	



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BT_DH5_TX_CH_39_Vertical



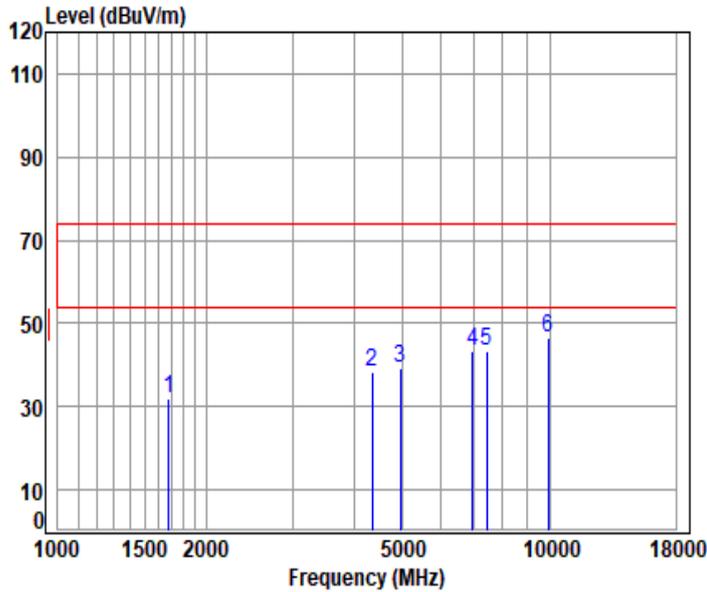
Condition: 3m VERTICAL
 Job No : 03493WM
 Mode : 2441 TX RSE
 : BT DH5 MIMO

	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	1119.323	7.12	25.52	54.70	53.27	31.21	74.00	-42.79 peak
2	4417.841	8.54	31.27	55.89	54.61	38.53	74.00	-35.47 peak
3	4882.000	8.98	32.16	56.22	52.58	37.50	74.00	-36.50 peak
4	6894.806	10.94	36.18	56.72	52.86	43.26	74.00	-30.74 peak
5	7323.000	11.12	36.75	56.44	51.73	43.16	74.00	-30.84 peak
6 pp	9764.000	12.86	38.60	54.31	48.57	45.72	74.00	-28.28 peak



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BT_DH5_TX_CH_78_Horizontal



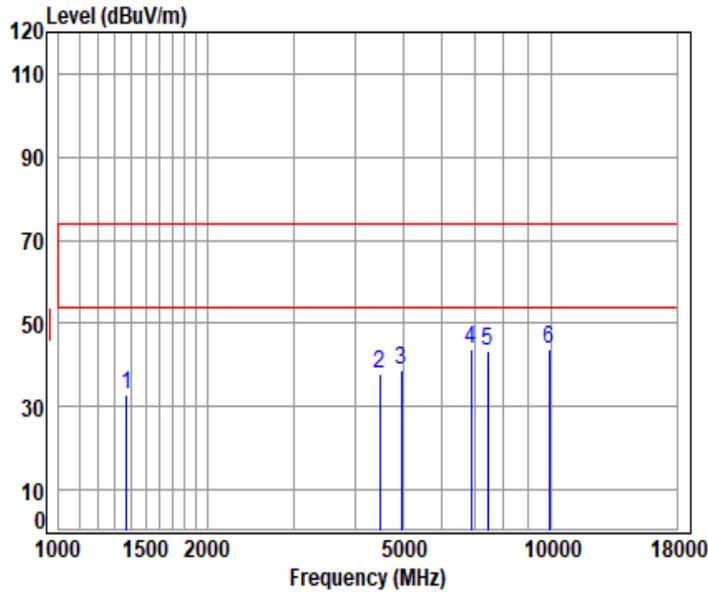
Condition: 3m HORIZONTAL
 Job No : 03493WM
 Mode : 2480 TX RSE
 : BT DH5 MIMO

	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	1677.621	7.18	25.06	54.70	54.34	31.88	74.00	-42.12 peak
2	4354.454	8.50	31.29	55.85	54.23	38.17	74.00	-35.83 peak
3	4960.000	9.07	32.20	56.27	54.06	39.06	74.00	-34.94 peak
4	6954.852	10.95	36.11	56.71	53.02	43.37	74.00	-30.63 peak
5	7440.000	11.08	36.78	56.35	51.75	43.26	74.00	-30.74 peak
6 pp	9920.000	12.73	38.90	54.17	49.08	46.54	74.00	-27.46 peak



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BT_DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL
 Job No : 03493WM
 Mode : 2480 TX RSE
 : BT DH5 MIMO

	Cable	Ant	Preamp	Read	Limit	Over		
Freq	Loss	Factor	Factor	Level	Line	Limit	Remark	
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	1374.295	7.19	25.05	54.70	55.19	32.73	74.00	-41.27 peak
2	4482.150	8.56	31.53	55.94	53.76	37.91	74.00	-36.09 peak
3	4960.000	9.07	32.20	56.27	53.83	38.83	74.00	-35.17 peak
4	pp 6874.906	10.95	36.10	56.73	53.69	44.01	74.00	-29.99 peak
5	7440.000	11.08	36.78	56.35	51.99	43.50	74.00	-30.50 peak
6	9920.000	12.73	38.90	54.17	46.54	44.00	74.00	-30.00 peak



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7.5 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

7.5.1 E.U.T. Operation

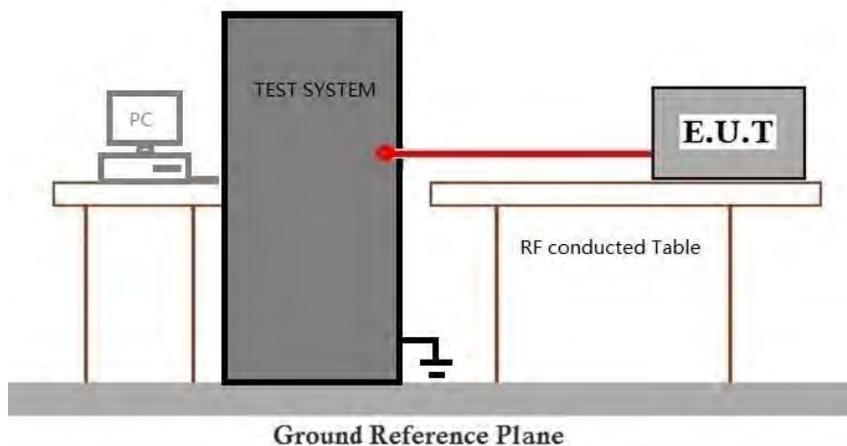
Operating Environment:

Temperature: 24.9 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar

7.5.2 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.

7.5.3 Test Setup Diagram



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7.5.4 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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7.6 20dB Bandwidth

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

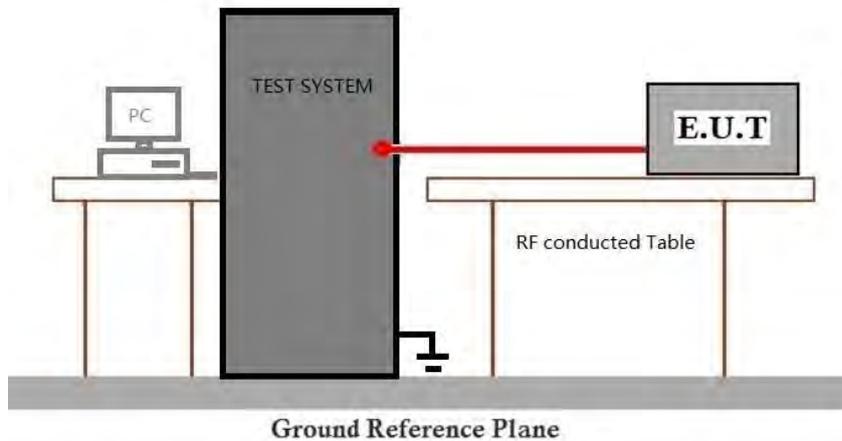
7.6.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 37.5 % 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_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.

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.7 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.

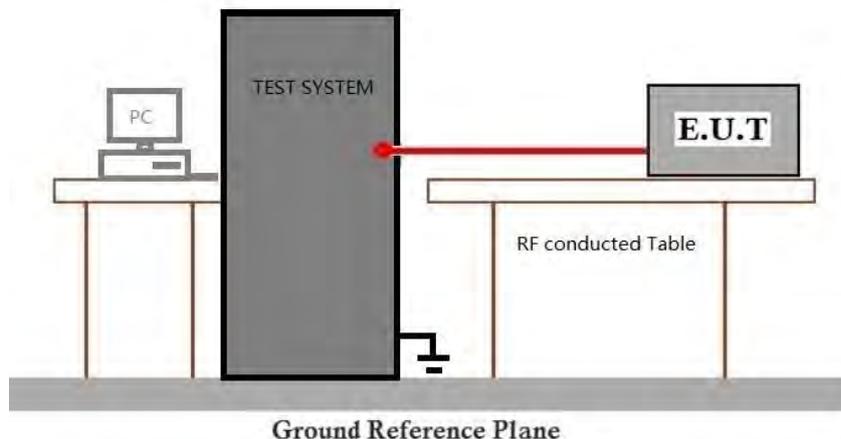
7.7.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

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

7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.8 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

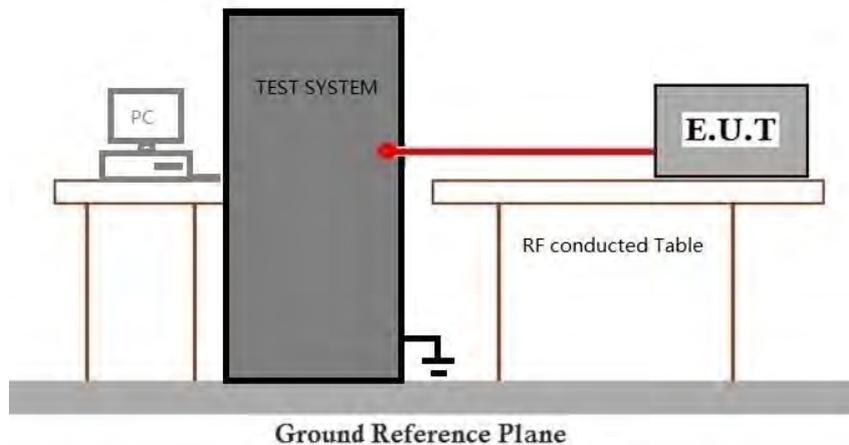
7.8.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

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

7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.9 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

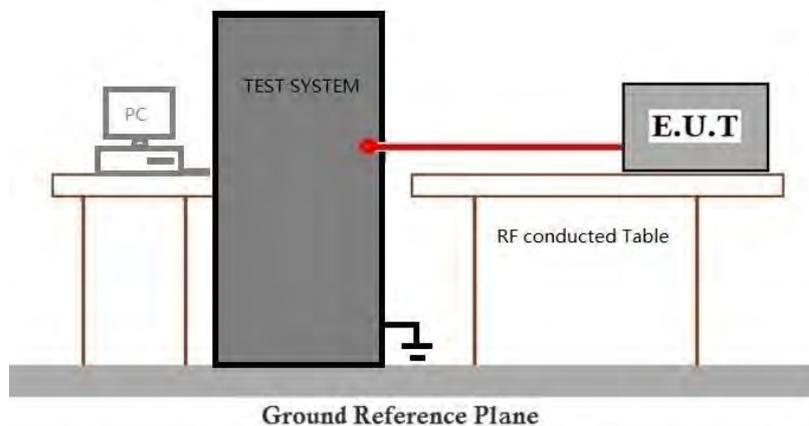
7.9.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 37.5 % RH Atmospheric Pressure: 1020 mbar

7.9.2 Test Mode Description

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

7.9.3 Test Setup Diagram



7.9.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.10 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)).

7.10.1 E.U.T. Operation

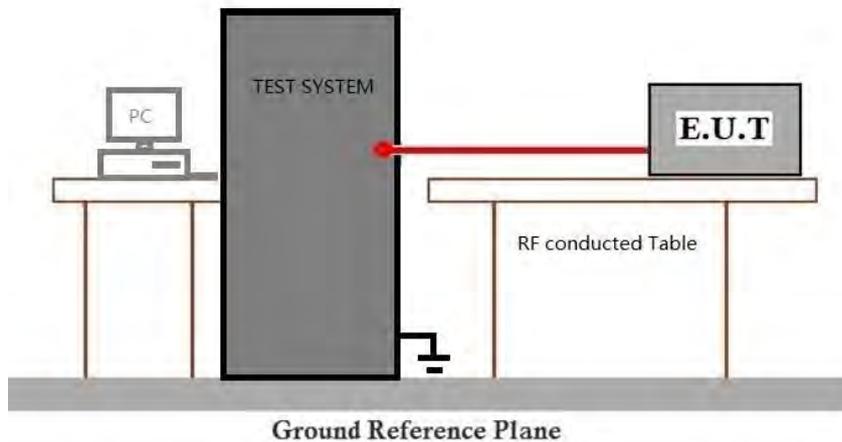
Operating Environment:

Temperature: 24.9 °C Humidity: 37.5 % 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.

7.10.3 Test Setup Diagram



7.10.4 Measurement Procedure and Data

Please Refer to Appendix for Details



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7.11 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)).

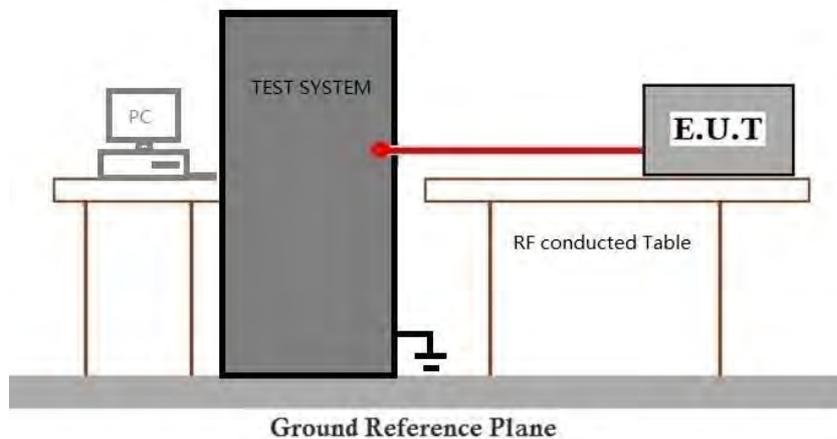
7.11.1 E.U.T. Operation

Operating Environment:
 Temperature: 24.9 °C Humidity: 37.5 % 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



7.11.4 Measurement Procedure and Data

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8 Test Setup Photo

Please refer to SZCR2409003493 Appendix_Setup Photo

9 EUT Constructional Details (EUT Photos)

Please refer to SZCR2409003493 Appendix_EUT Photo



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10 Appendix

1. Bandwidth

1.1 Test Result

1.1.1 OBW

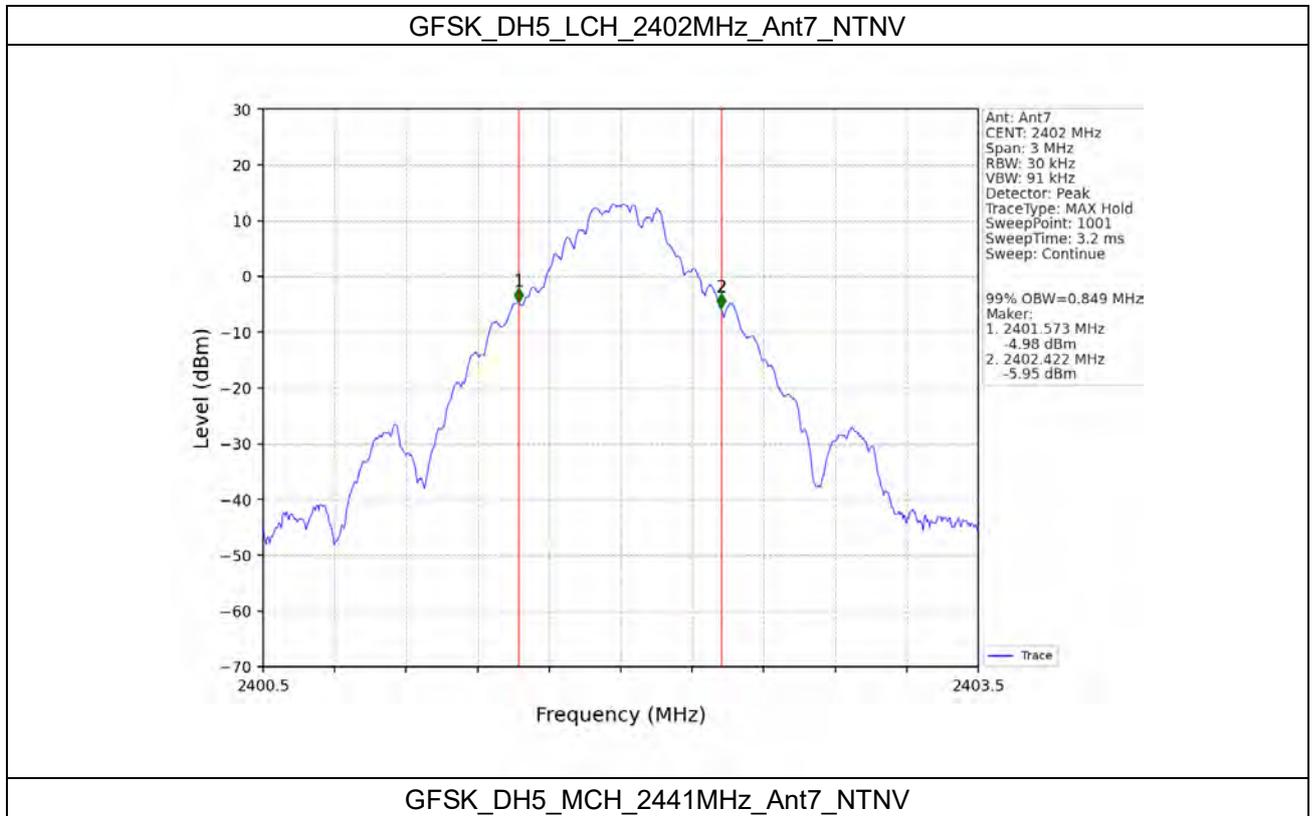
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	7	0.849	/	Pass
		2441	DH5	7	0.846	/	Pass
		2480	DH5	7	0.846	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	7	1.180	/	Pass
		2441	2DH5	7	1.181	/	Pass
		2480	2DH5	7	1.180	/	Pass
8DPSK	SISO	2402	3DH5	7	1.182	/	Pass
		2441	3DH5	7	1.183	/	Pass
		2480	3DH5	7	1.184	/	Pass

1.1.2 20dB BW

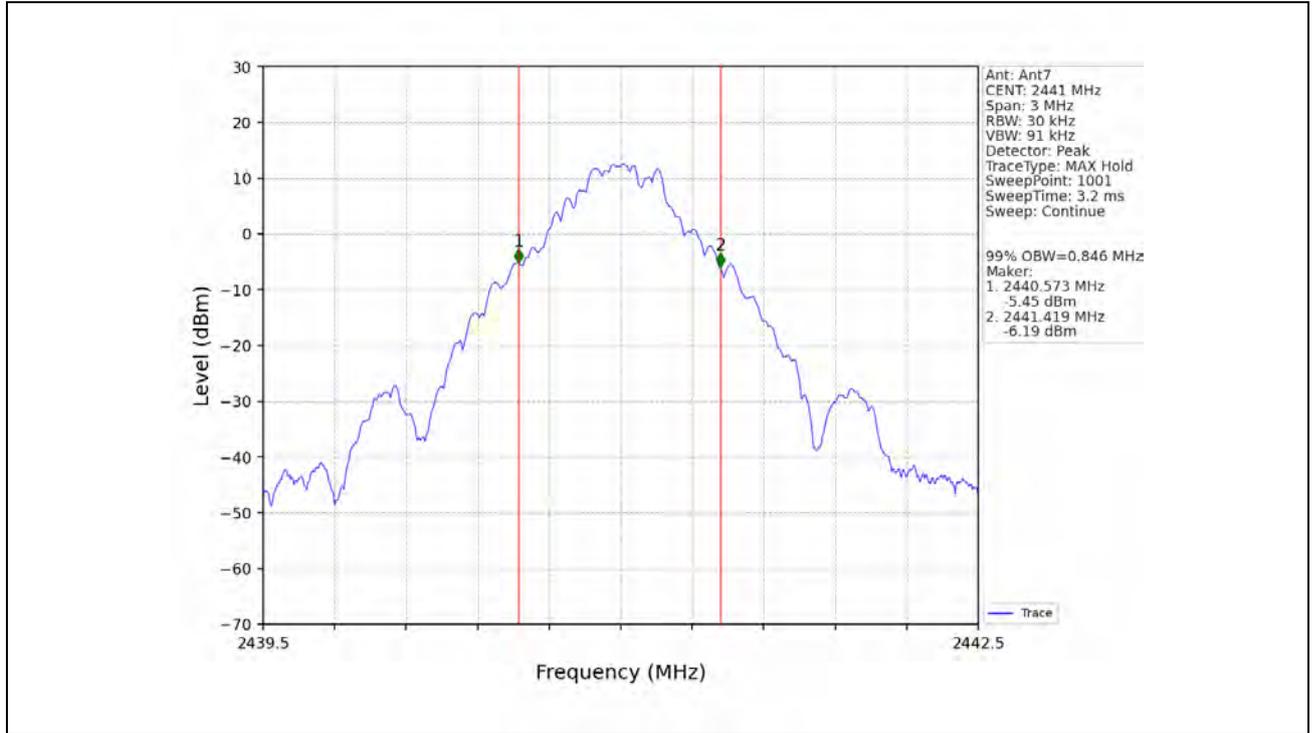
Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	7	0.955	/	Pass
		2441	DH5	7	0.954	/	Pass
		2480	DH5	7	0.956	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	7	1.329	/	Pass
		2441	2DH5	7	1.331	/	Pass
		2480	2DH5	7	1.330	/	Pass
8DPSK	SISO	2402	3DH5	7	1.315	/	Pass
		2441	3DH5	7	1.316	/	Pass
		2480	3DH5	7	1.315	/	Pass

1.2 Test Graph

1.2.1 OBW

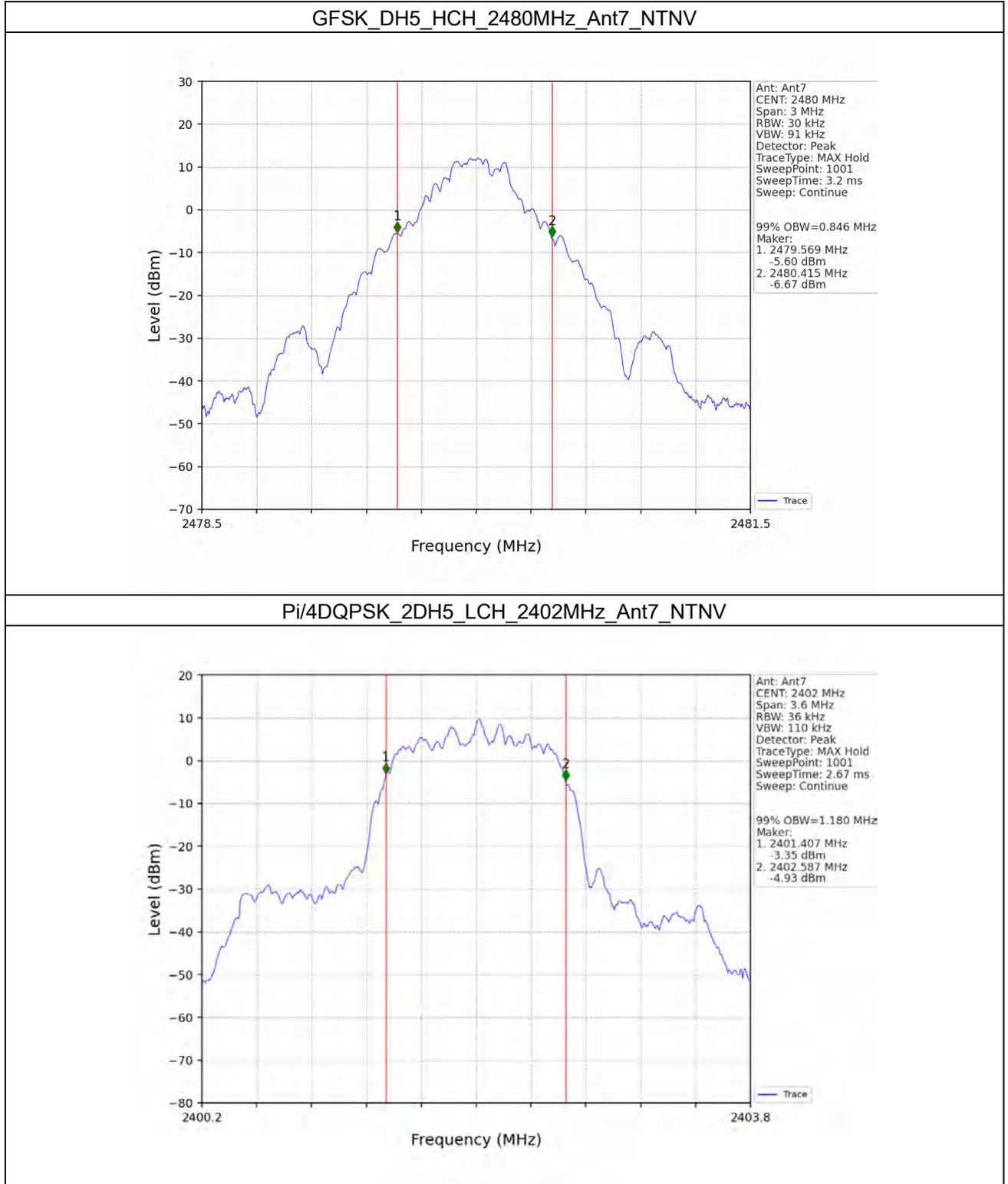


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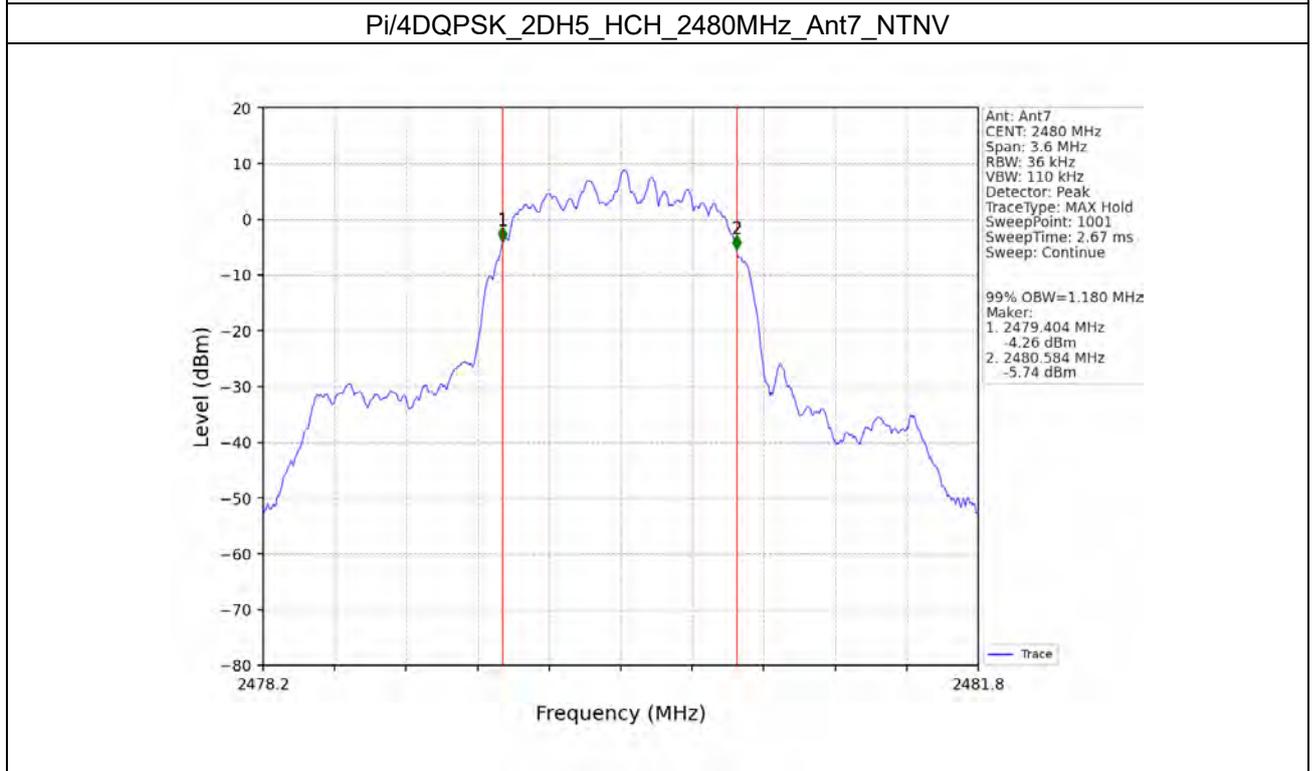
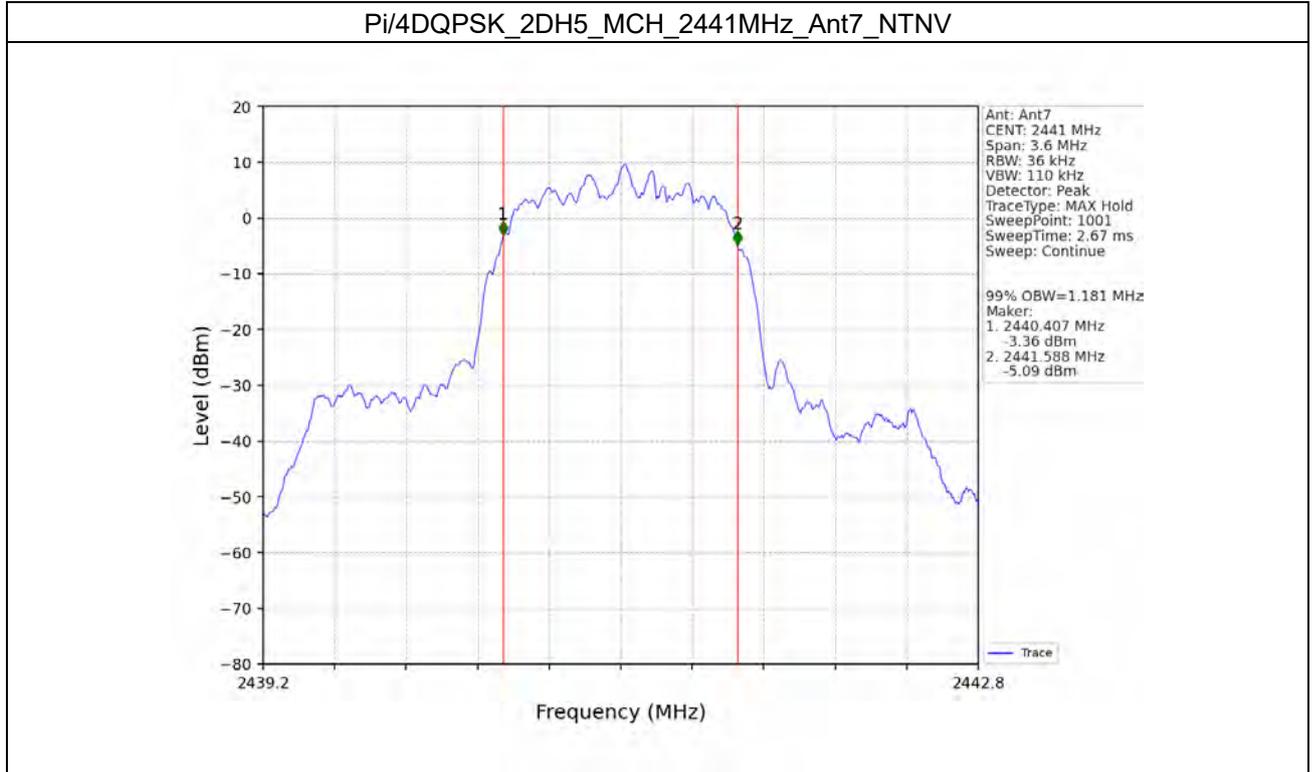


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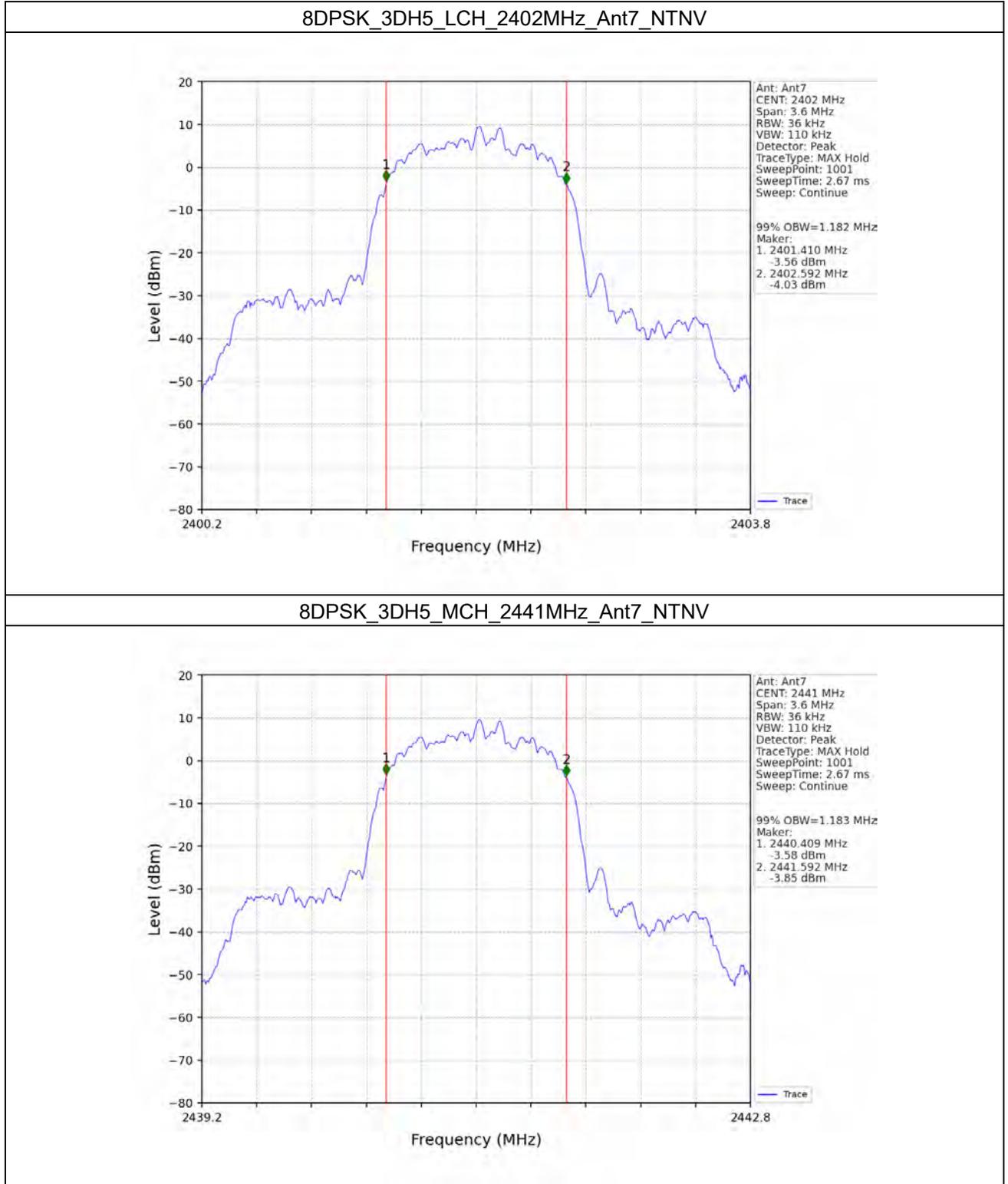


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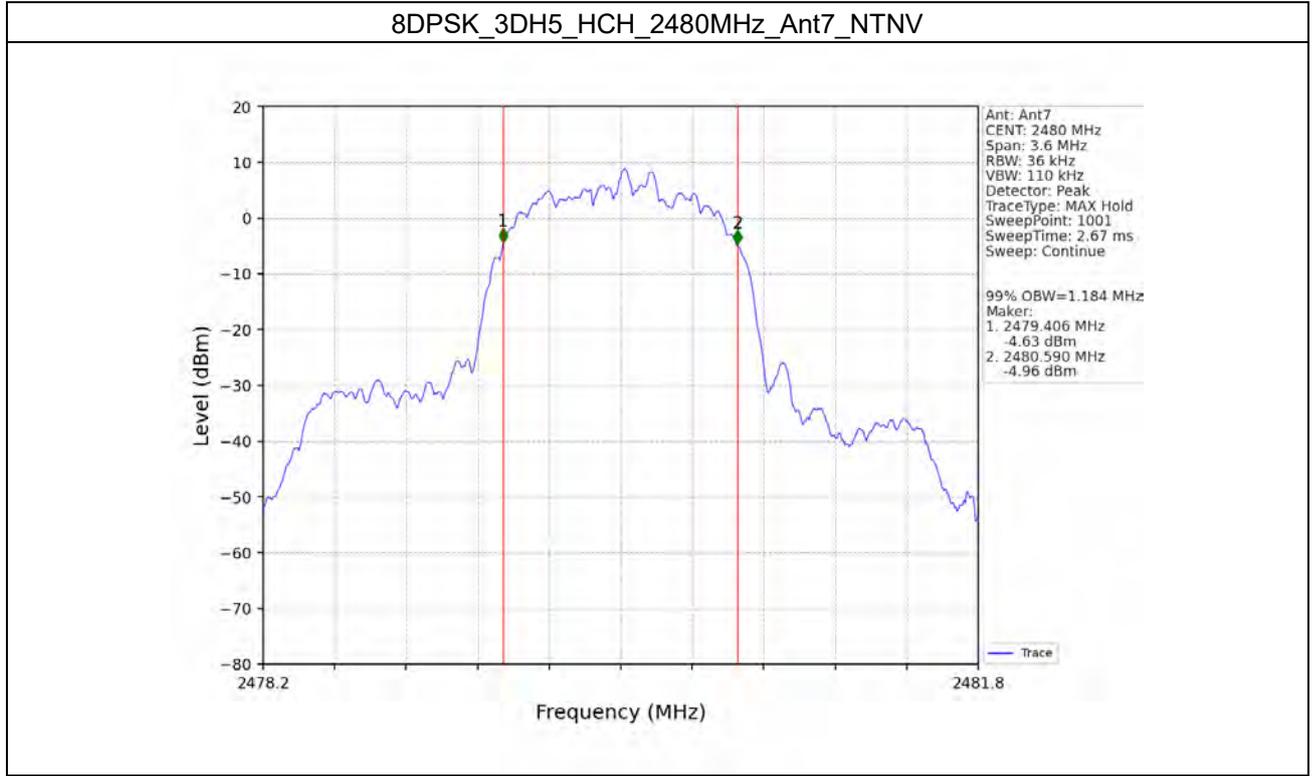


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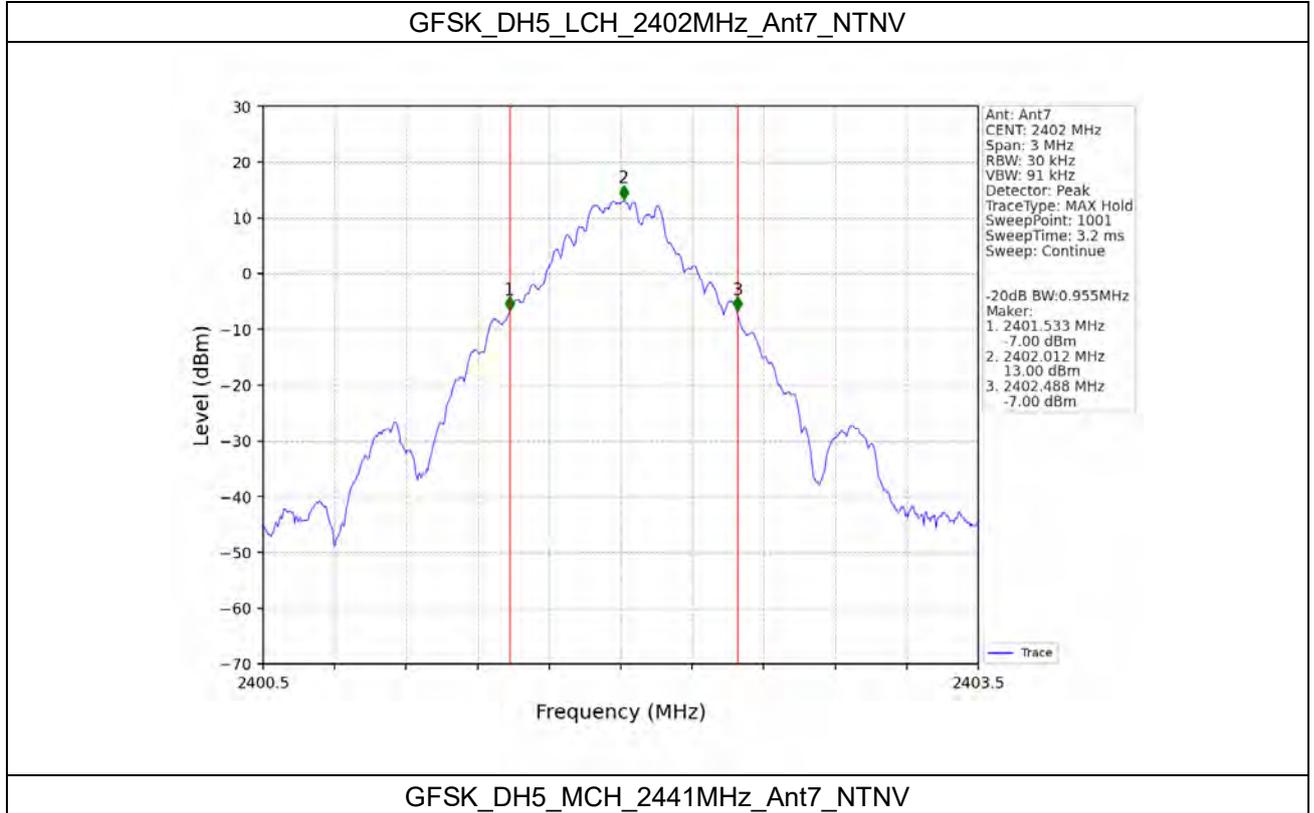
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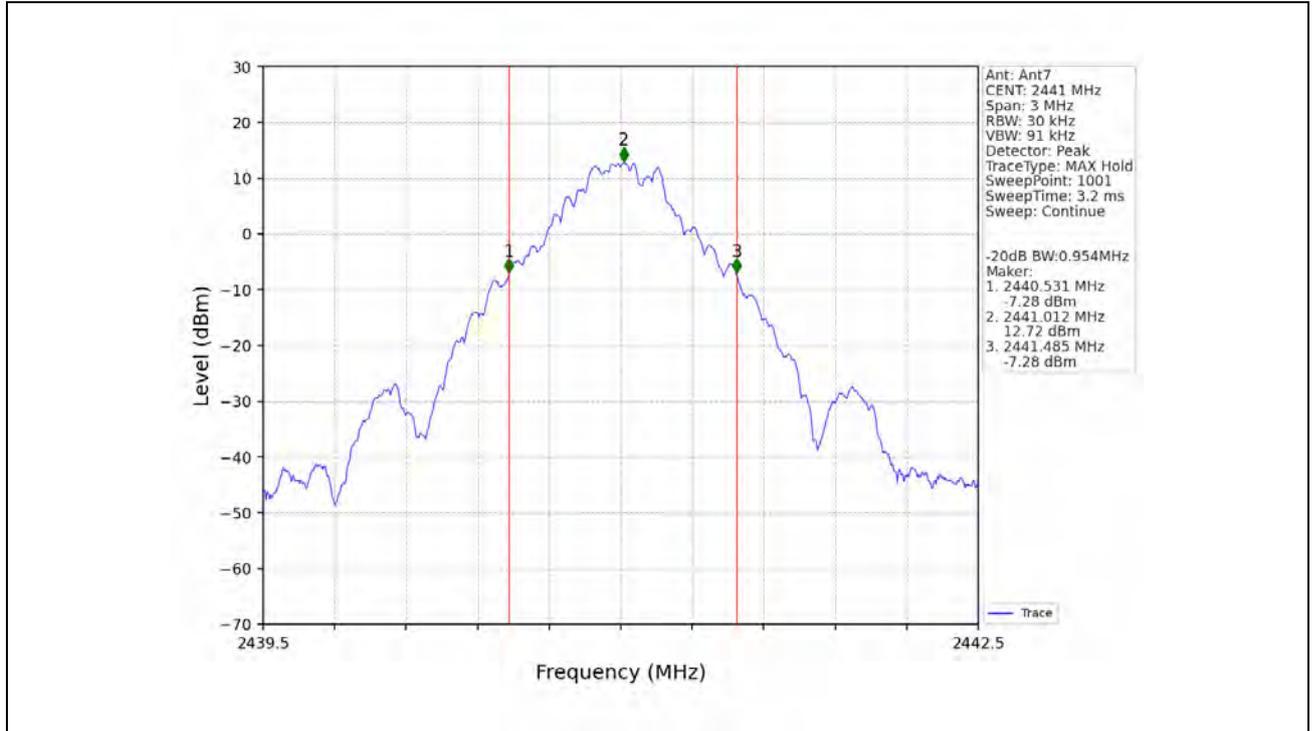
1.2.2 20dB BW



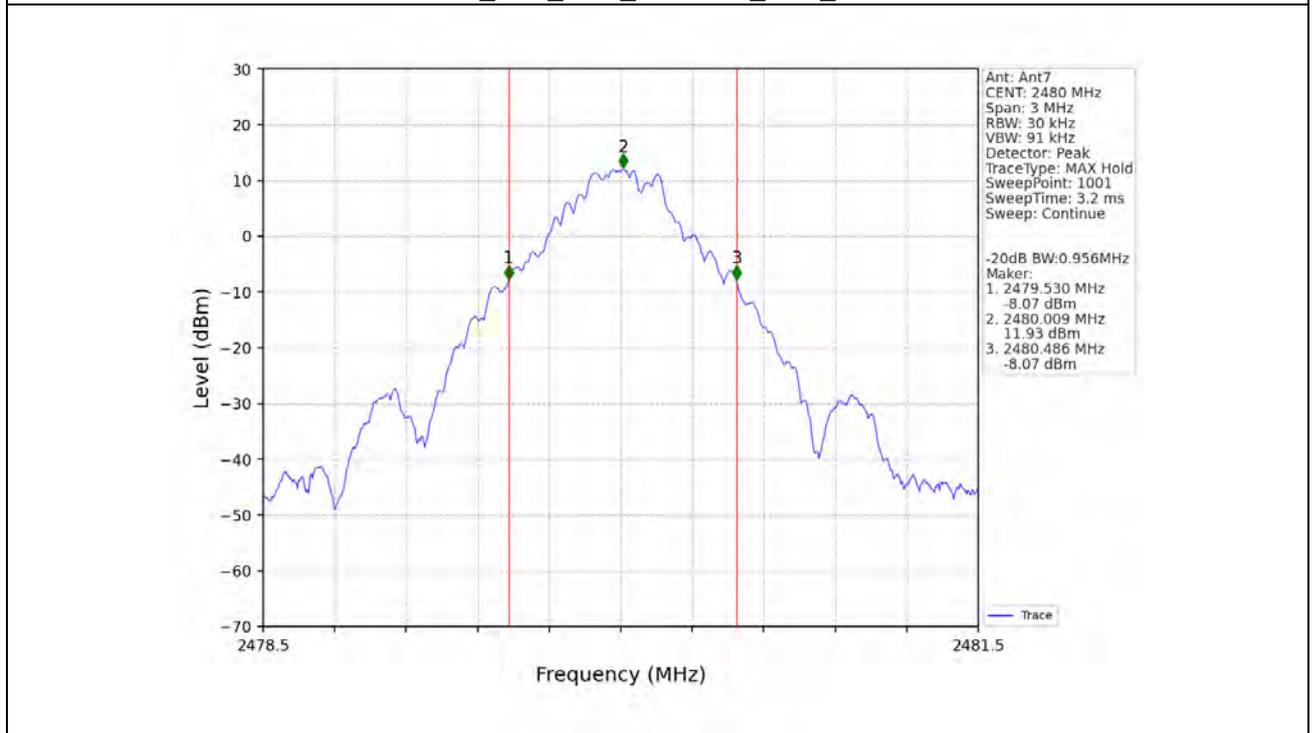
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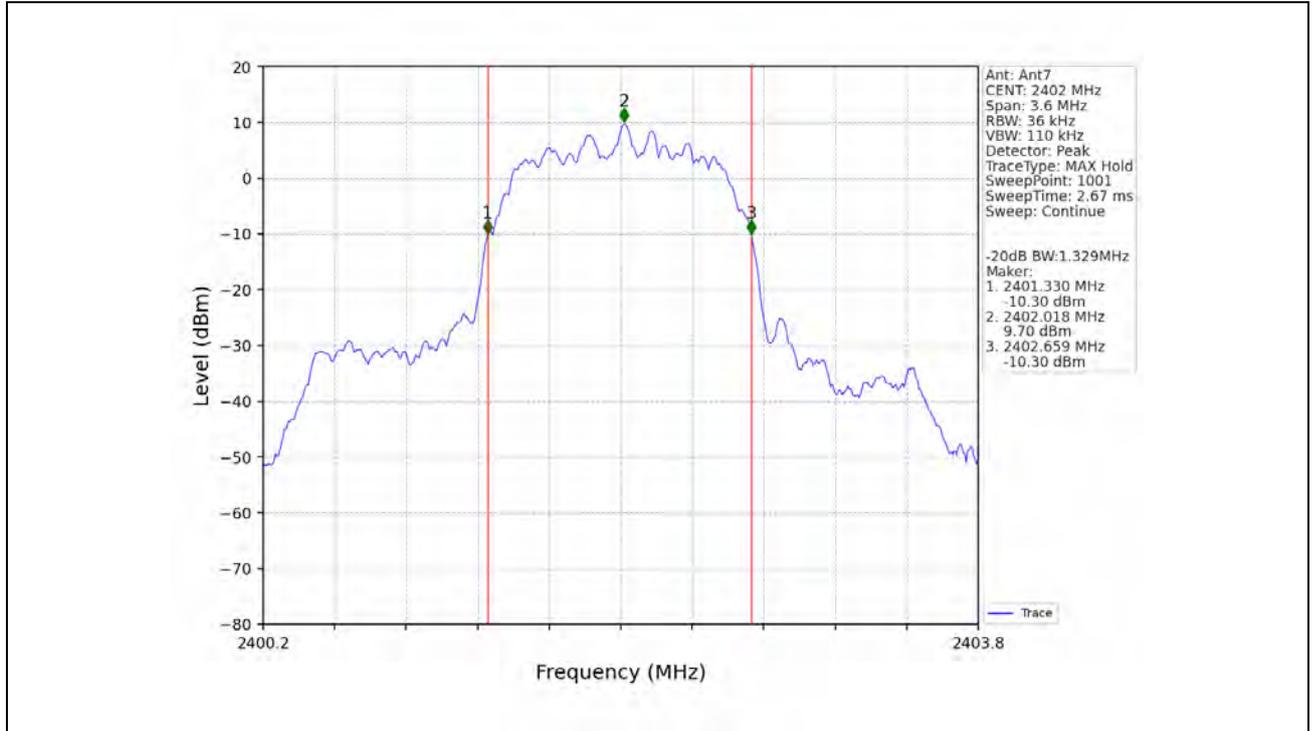


GFSK_DH5_HCH_2480MHz_Ant7_NTNV

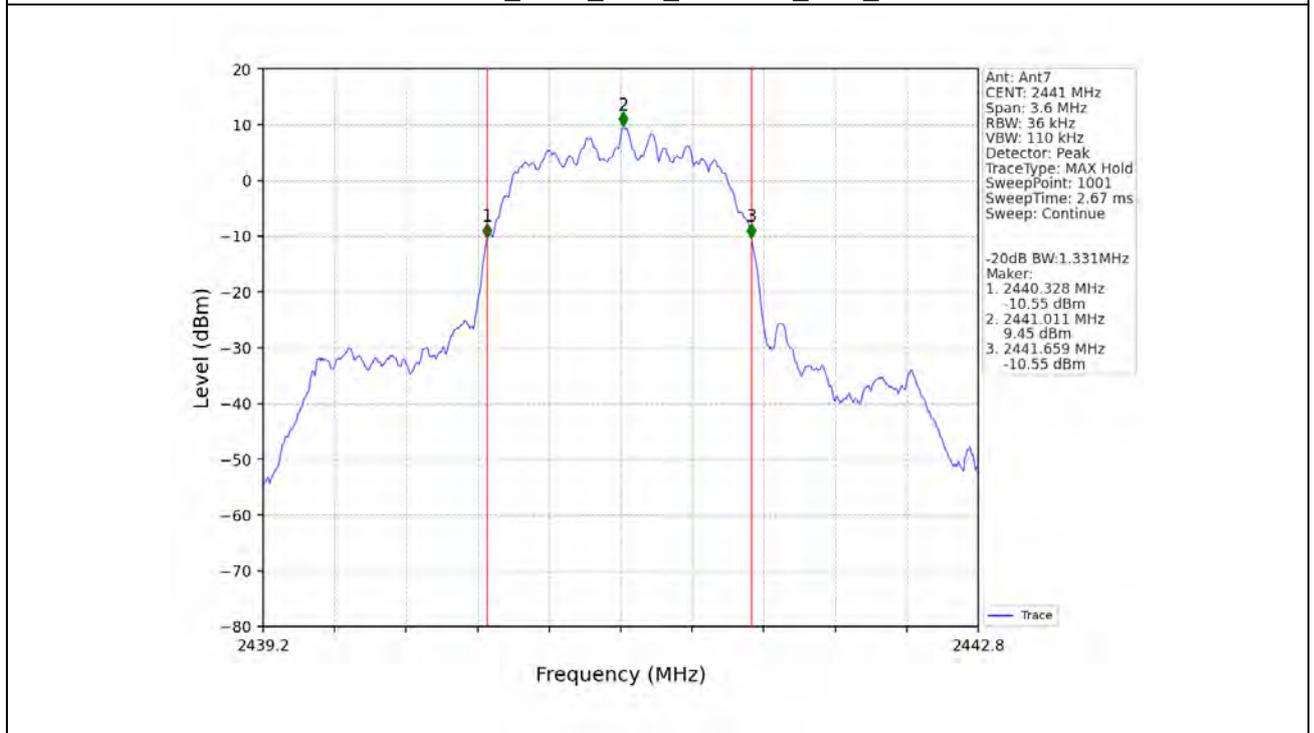


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



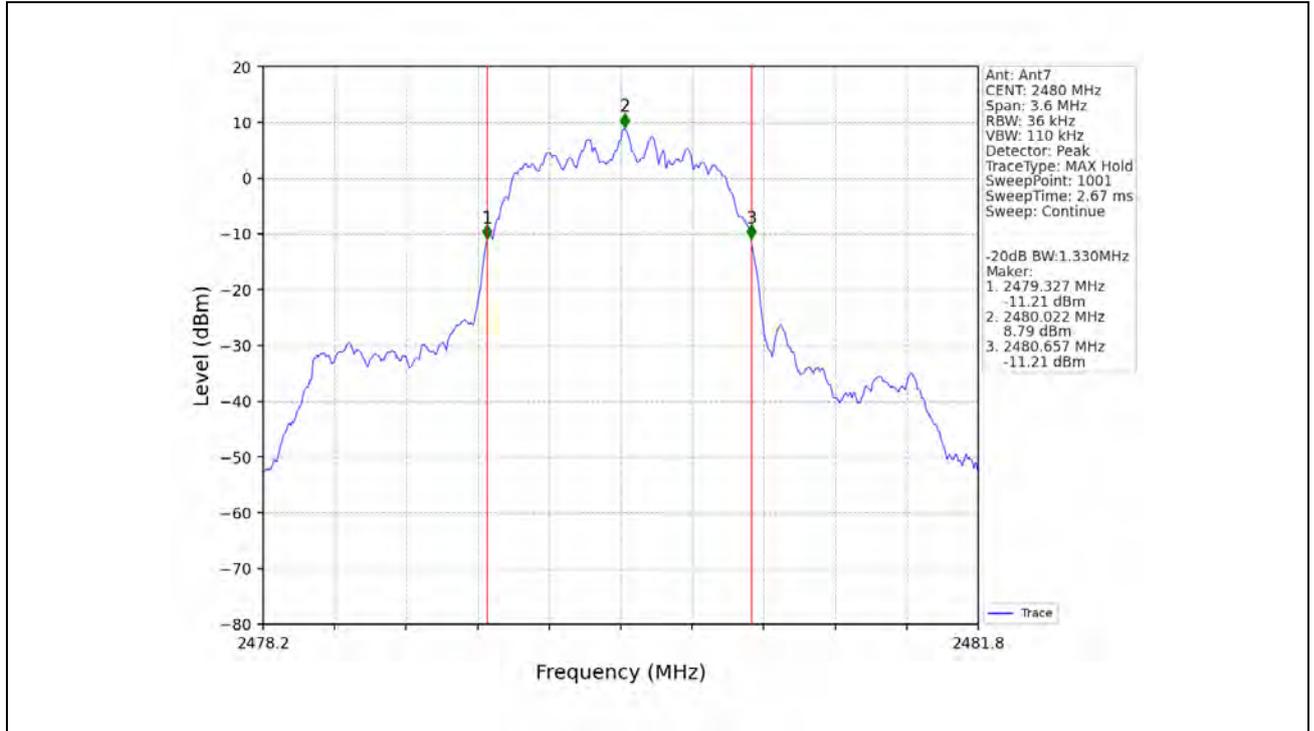


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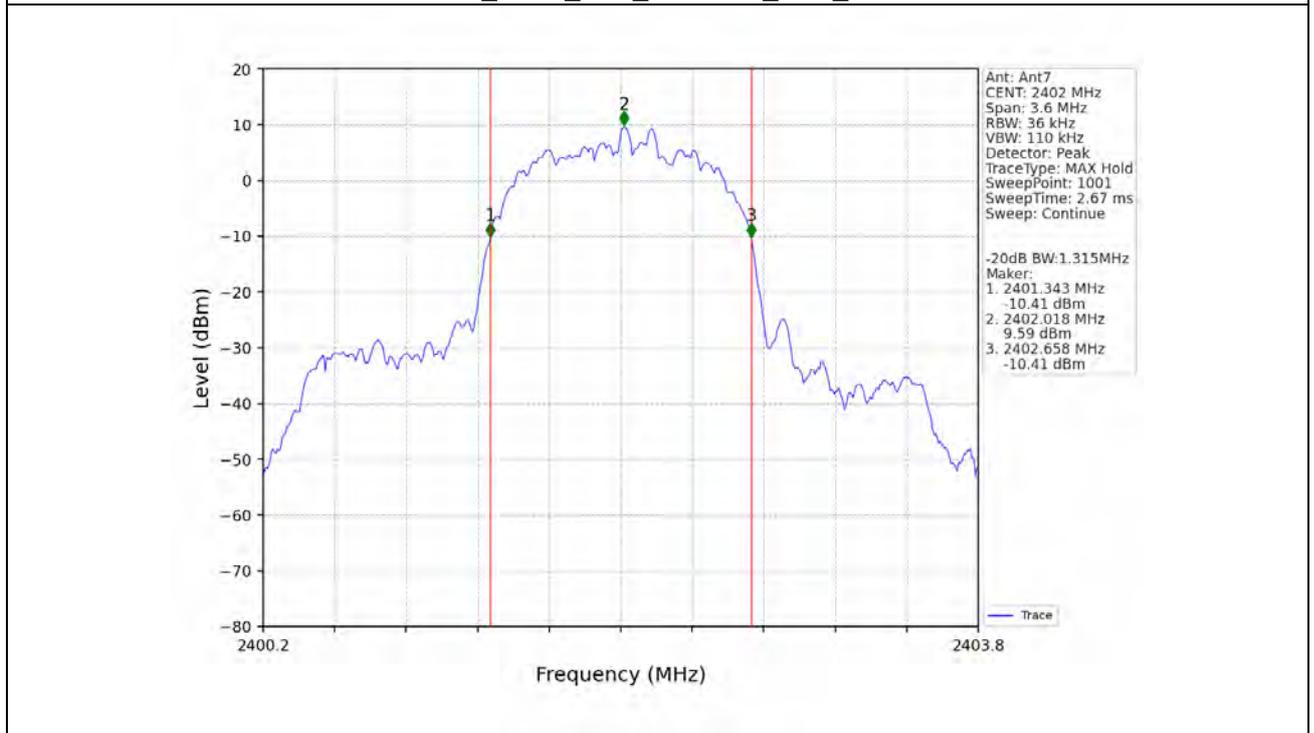


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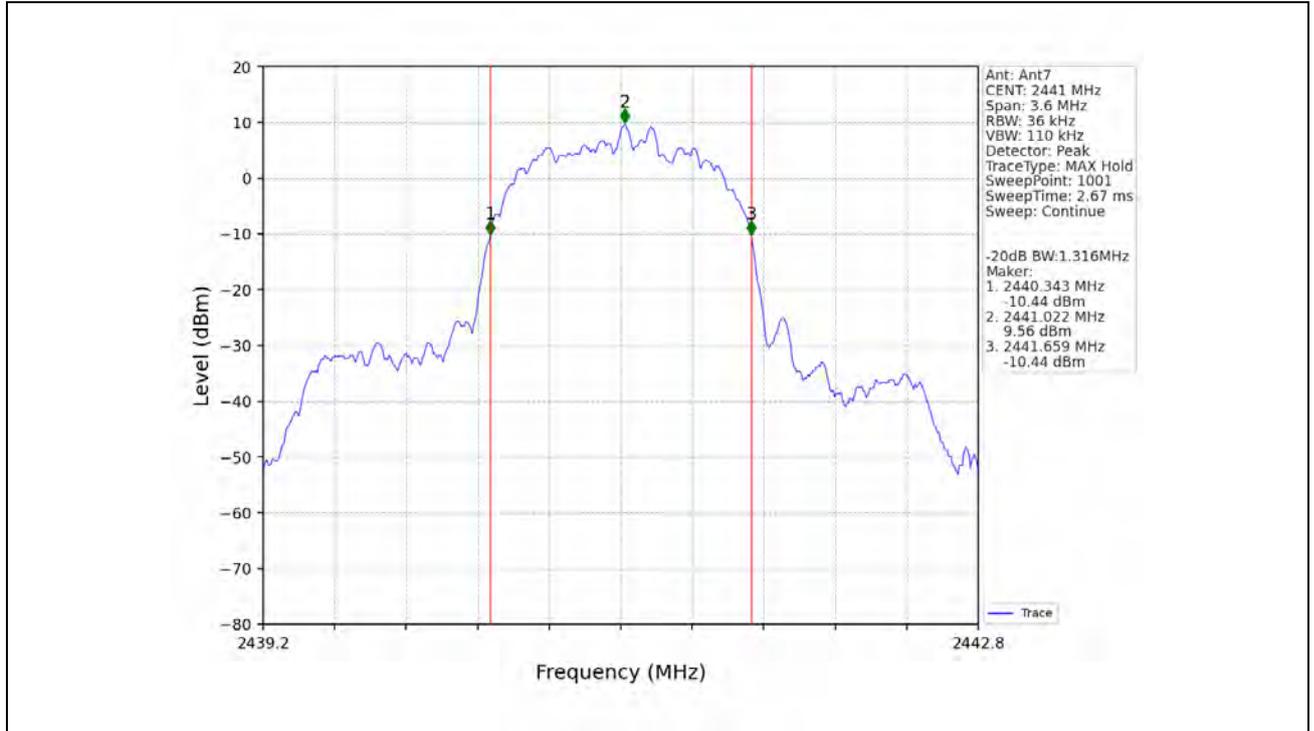


8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV

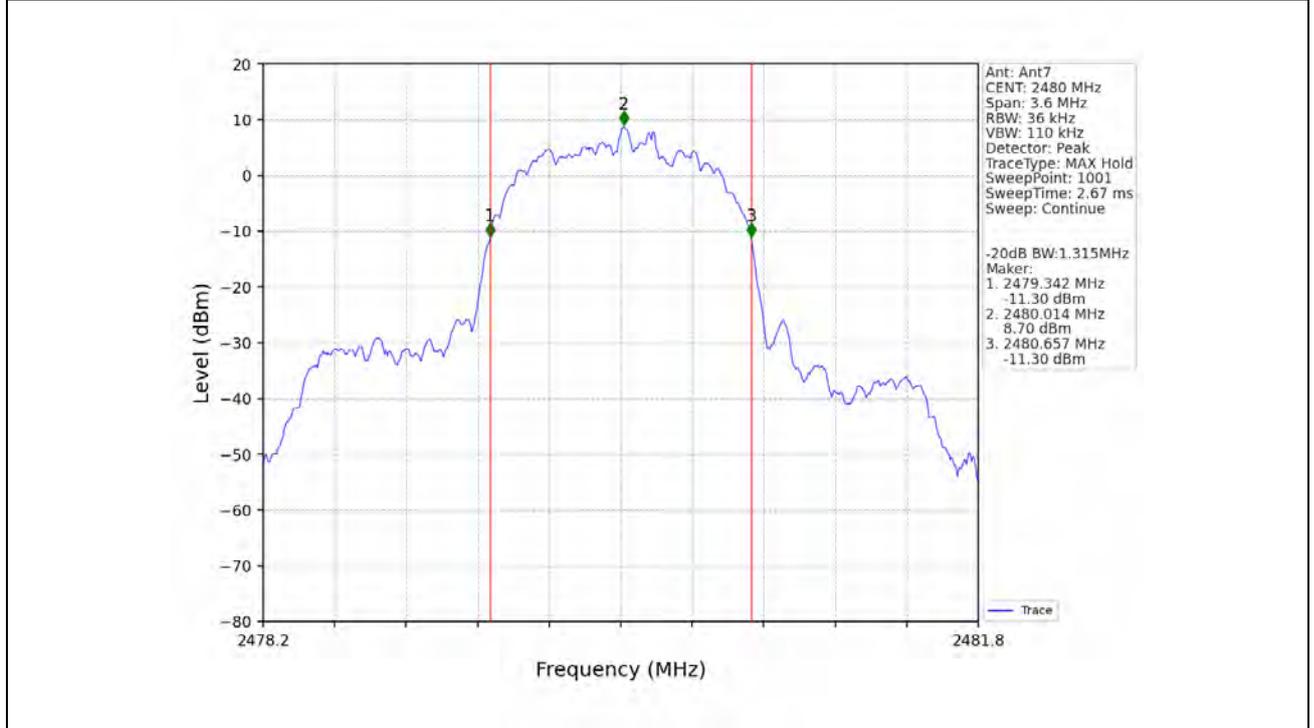


8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV





8DPSK_3DH5_HCH_2480MHz_Ant7_NTNV



2. Maximum Conducted Output Power

2.1 Test Result

2.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT7	Limit	
GFSK	SISO	2402	DH5	15.38	<=30	Pass
		2441	DH5	15.21	<=30	Pass
		2480	DH5	14.40	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	14.59	<=20.97	Pass
		2441	2DH5	14.52	<=20.97	Pass
		2480	2DH5	13.70	<=20.97	Pass
8DPSK	SISO	2402	3DH5	15.20	<=20.97	Pass
		2441	3DH5	15.12	<=20.97	Pass
		2480	3DH5	14.28	<=20.97	Pass

3. Carrier Frequency Separation

3.1 Test Result

3.1.1 Ant7

Ant7							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.956	>=0.956	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.331	>=0.887	Pass
8DPSK	SISO	HOPP	3DH5	0.984	1.316	>=0.877	Pass

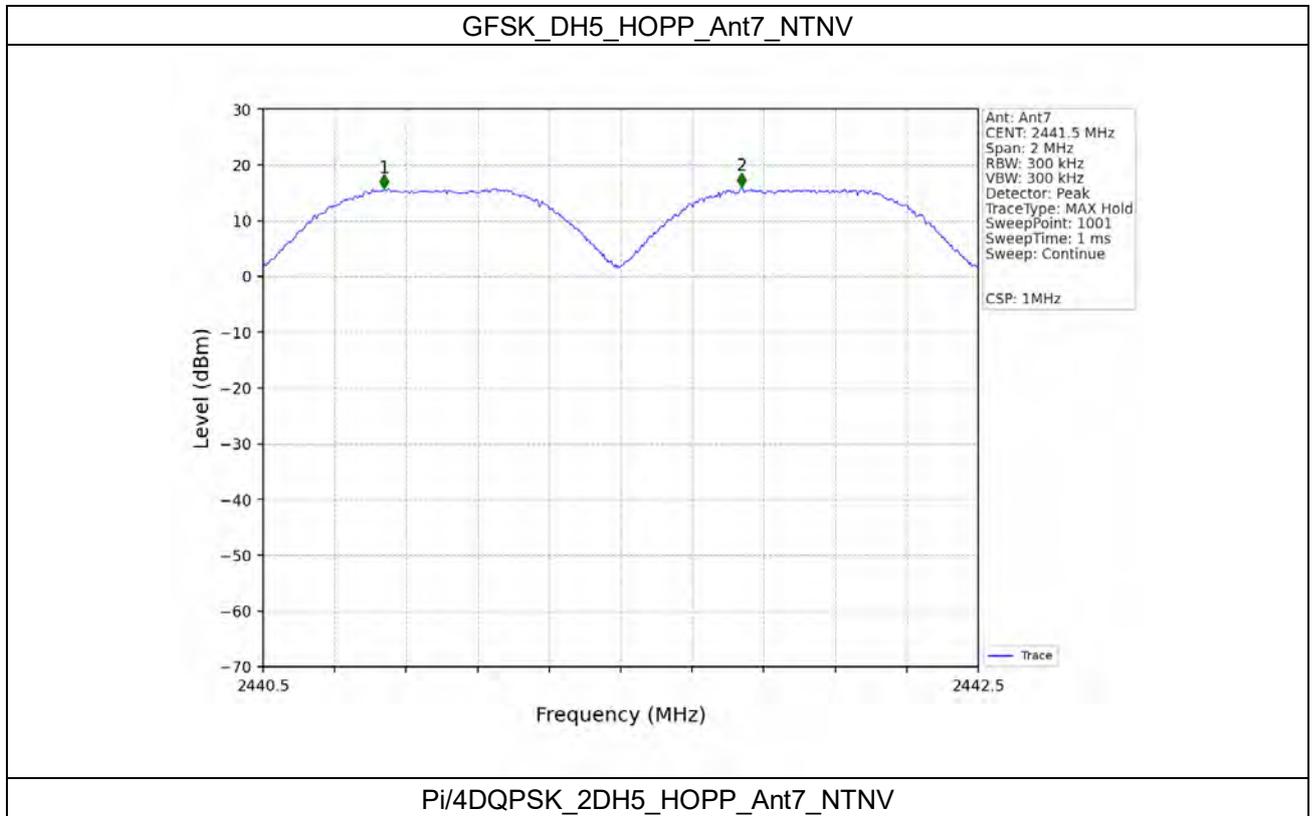


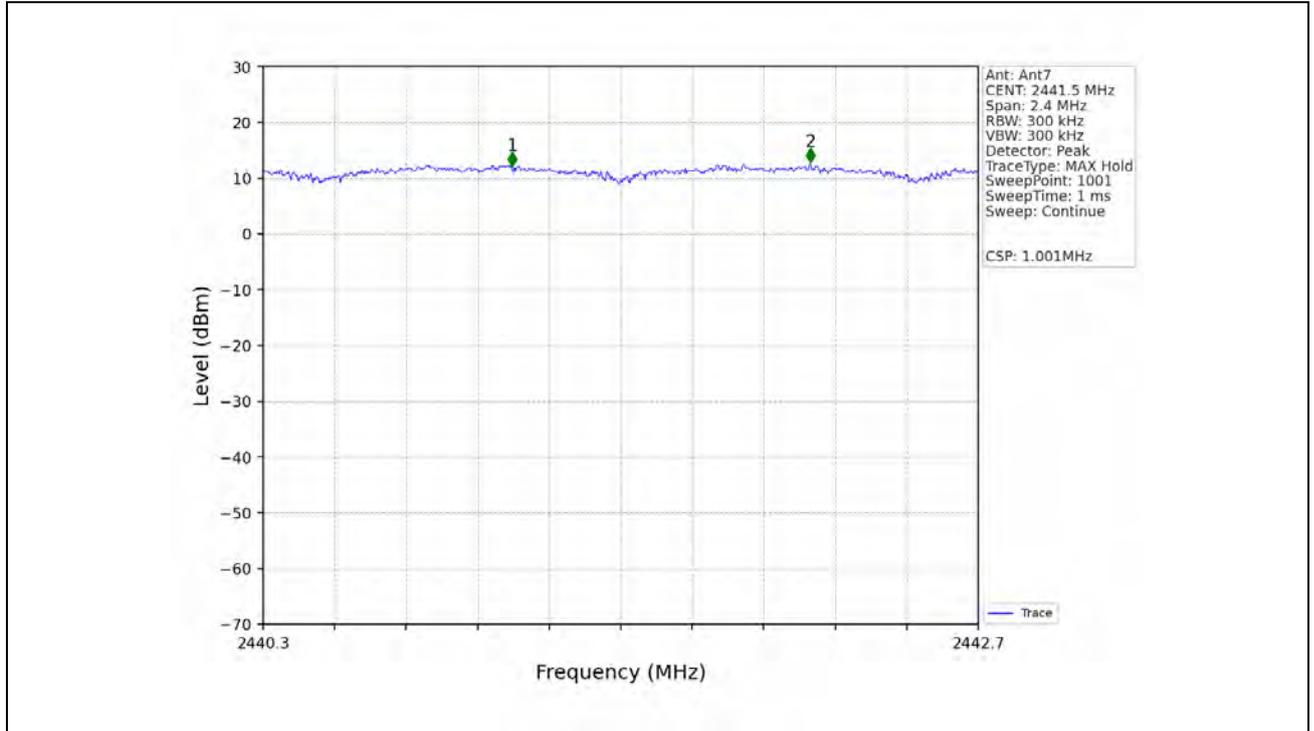
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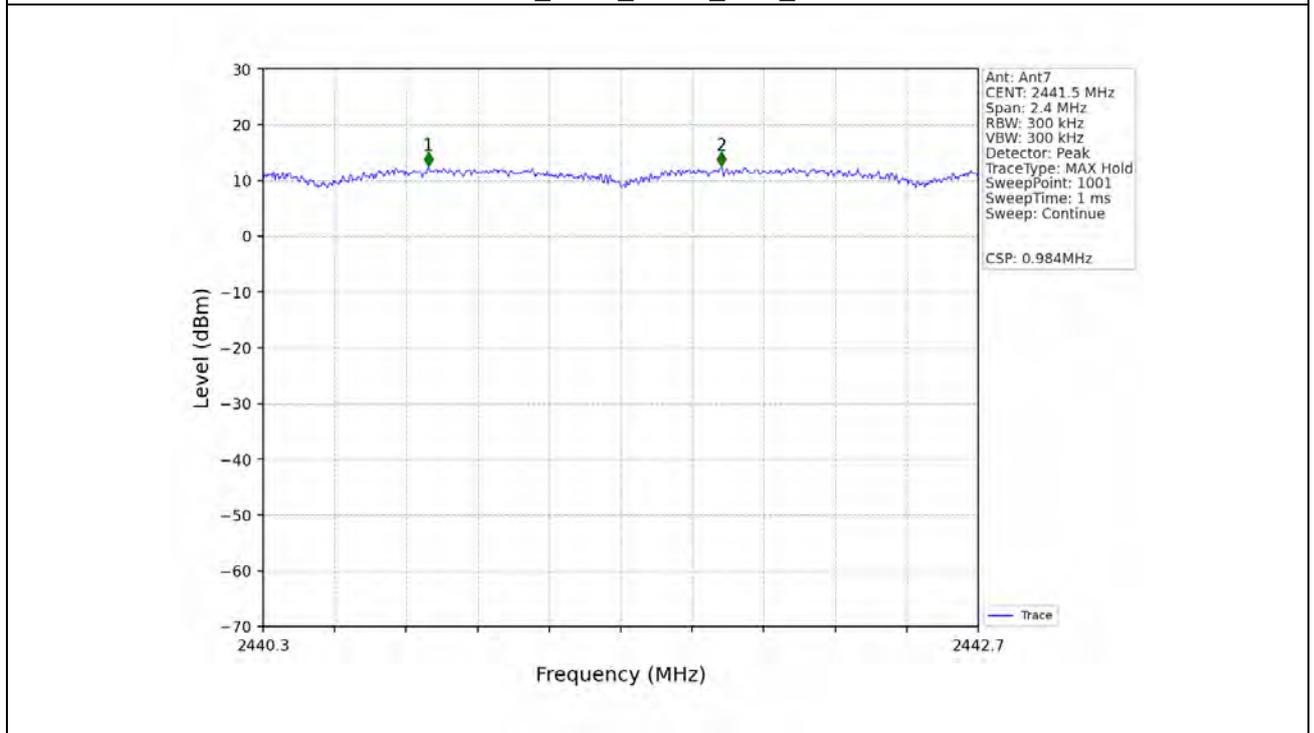
3.2 Test Graph

3.2.1 Ant7





8DPSK_3DH5_HOPP_Ant7_NTNV



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4. Number of Hopping Frequencies

4.1 Test Result

4.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT7	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

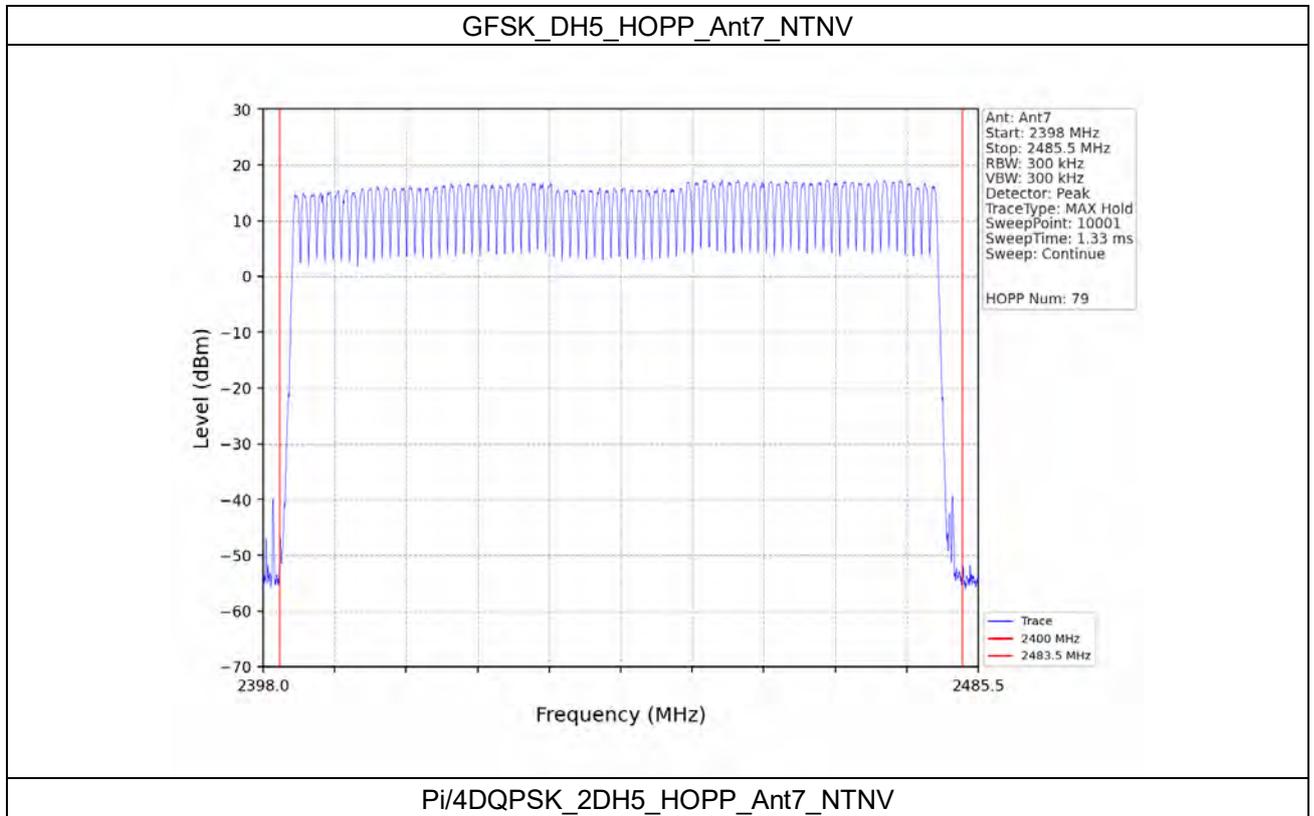


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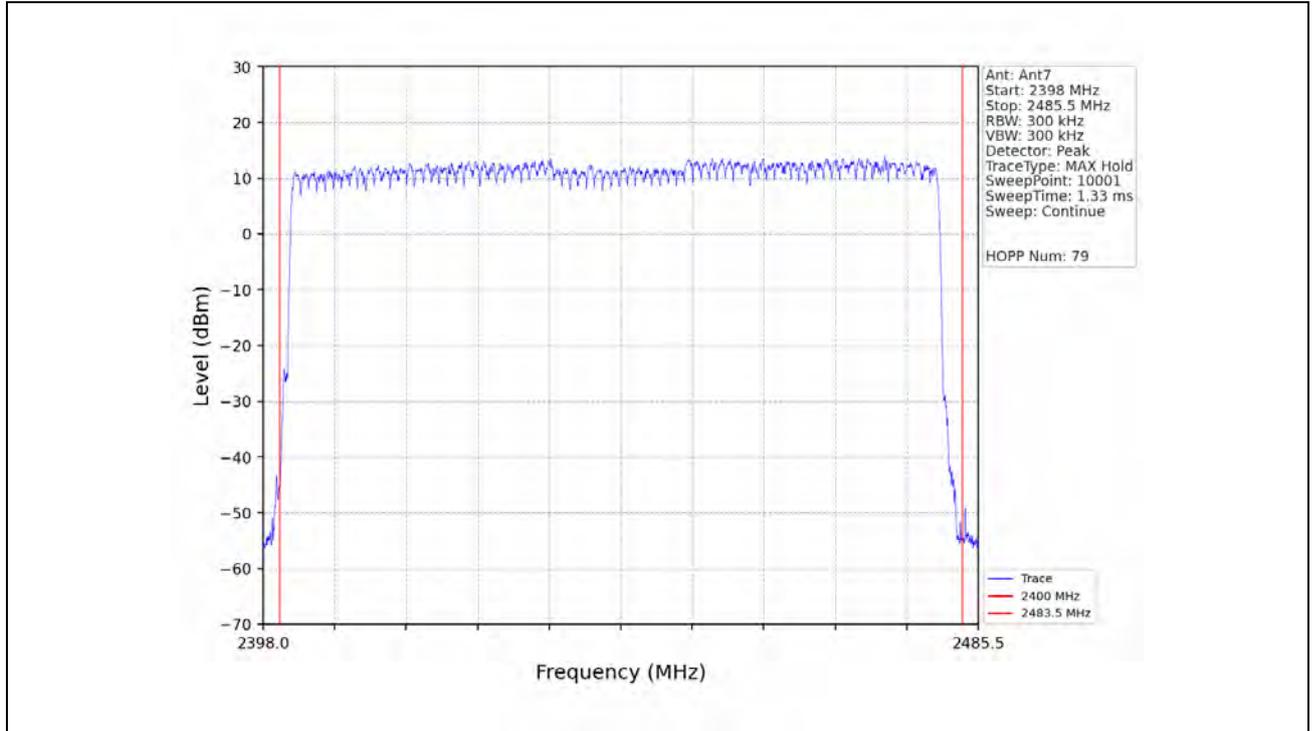
4.2 Test Graph

4.2.1 HoppNum

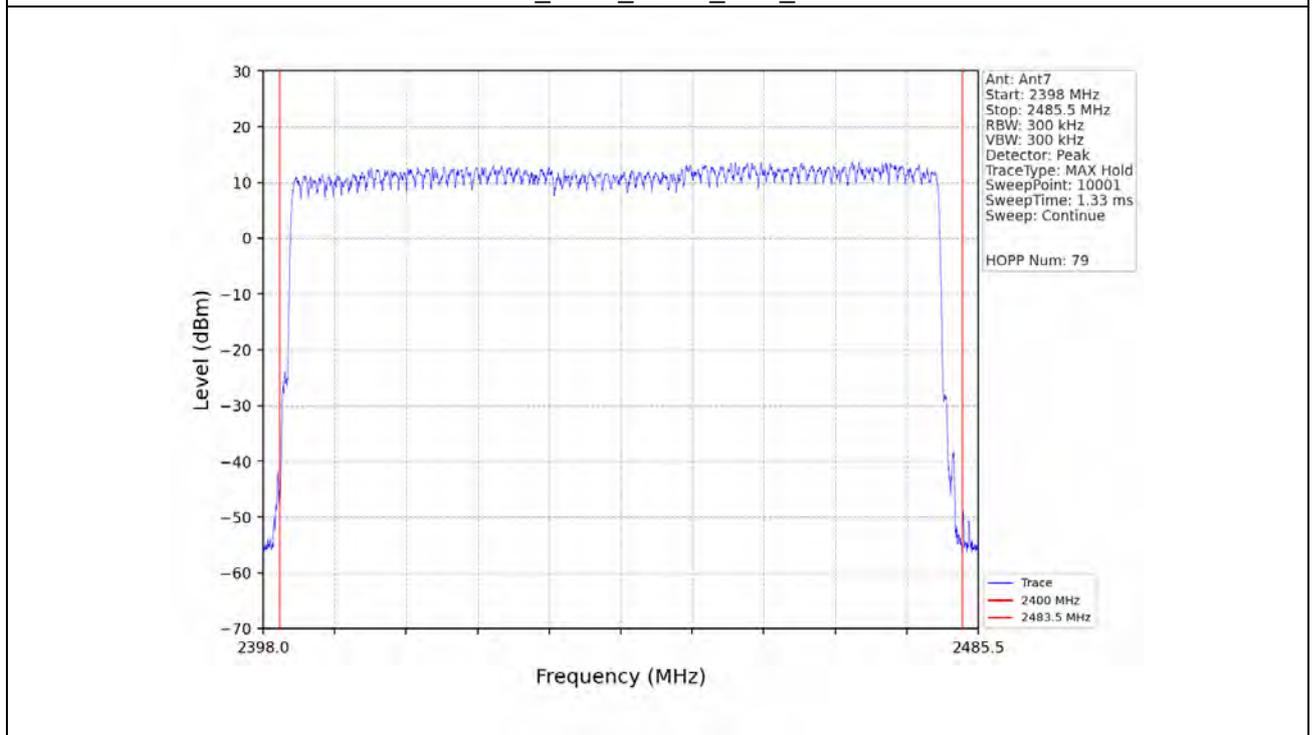


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5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant7

Ant7									
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	0.394	31.600	316	124.504	<=400	Pass
			DH3	1.650	31.600	157	259.050	<=400	Pass
			DH5	2.898	31.600	111	321.678	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	295	115.640	<=400	Pass
			2DH3	1.644	31.600	154	253.176	<=400	Pass
			2DH5	2.898	31.600	116	336.168	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.392	31.600	312	122.304	<=400	Pass
			3DH3	1.648	31.600	159	262.032	<=400	Pass
			3DH5	2.902	31.600	101	293.102	<=400	Pass

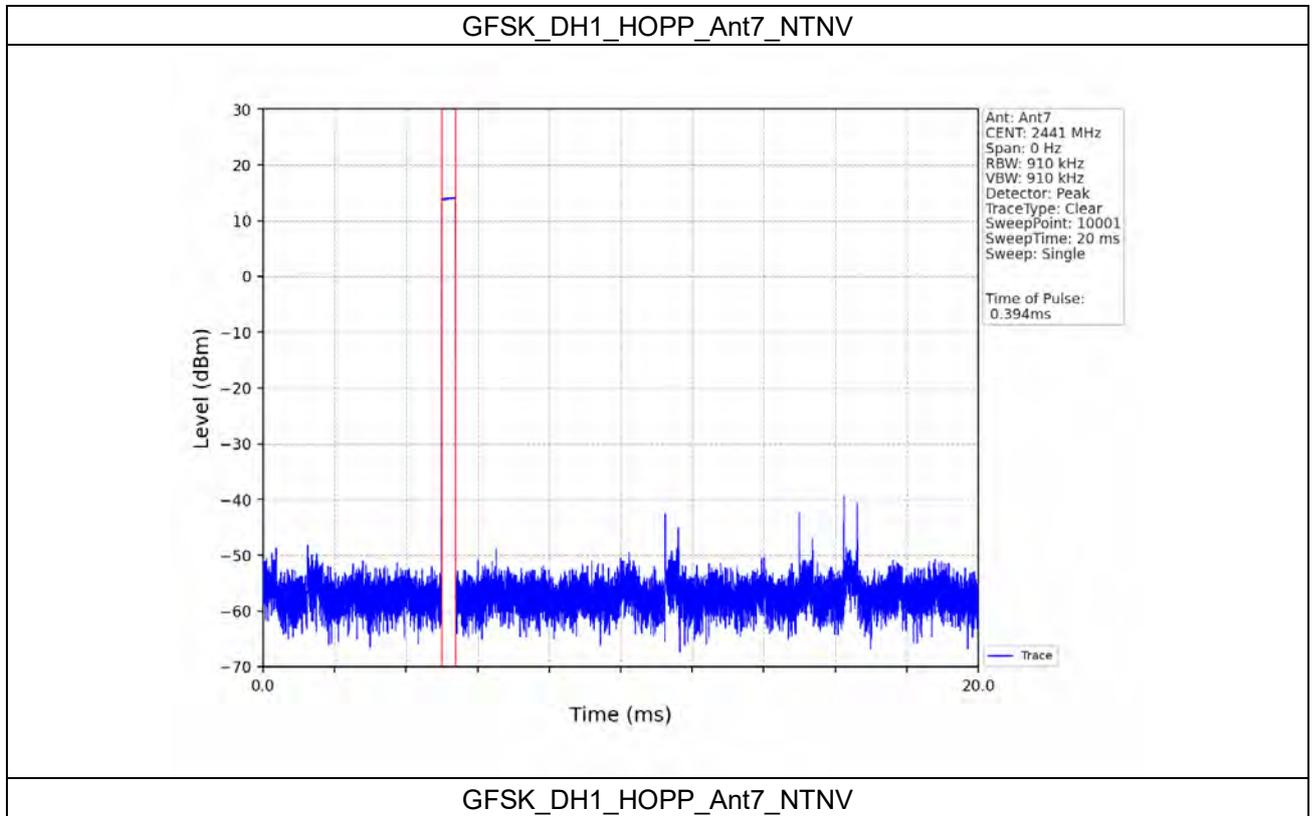


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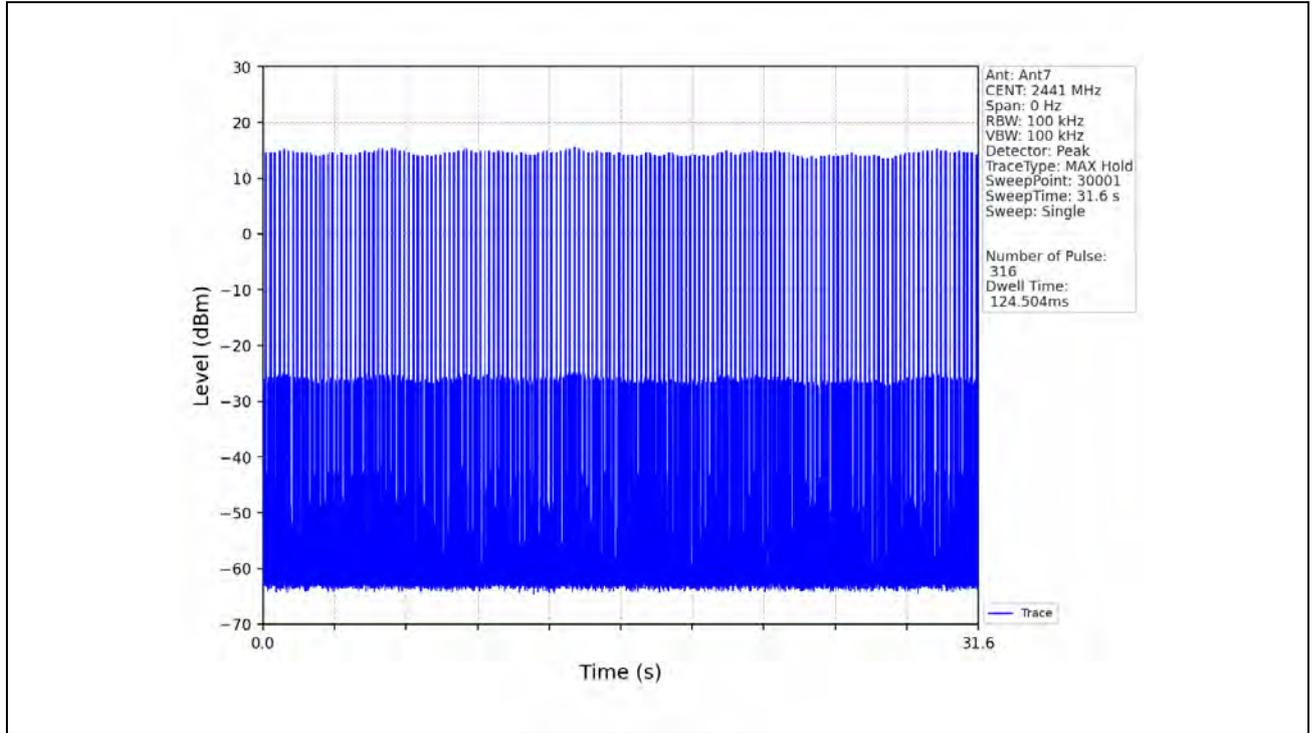
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5.2 Test Graph

5.2.1 Ant7

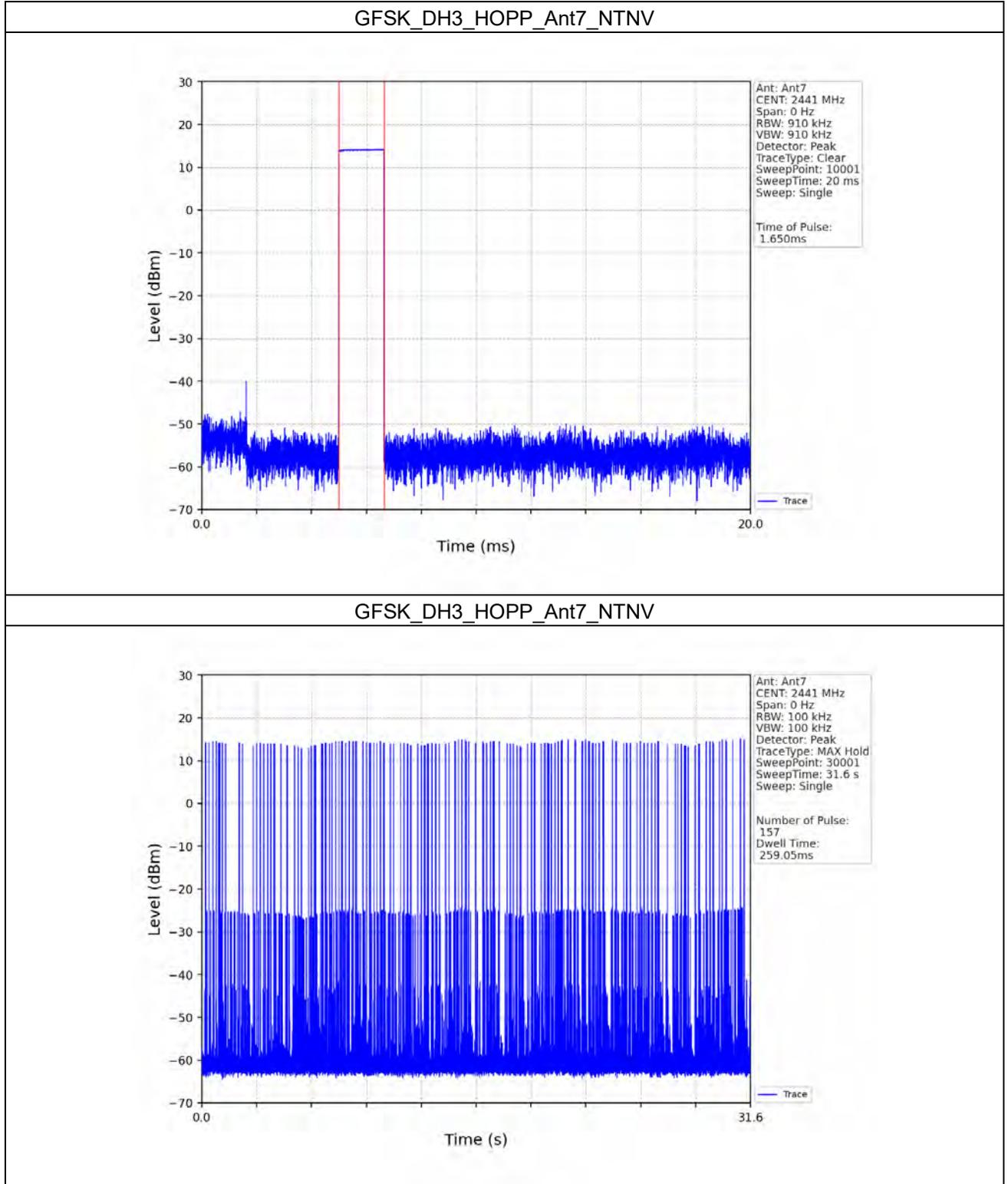


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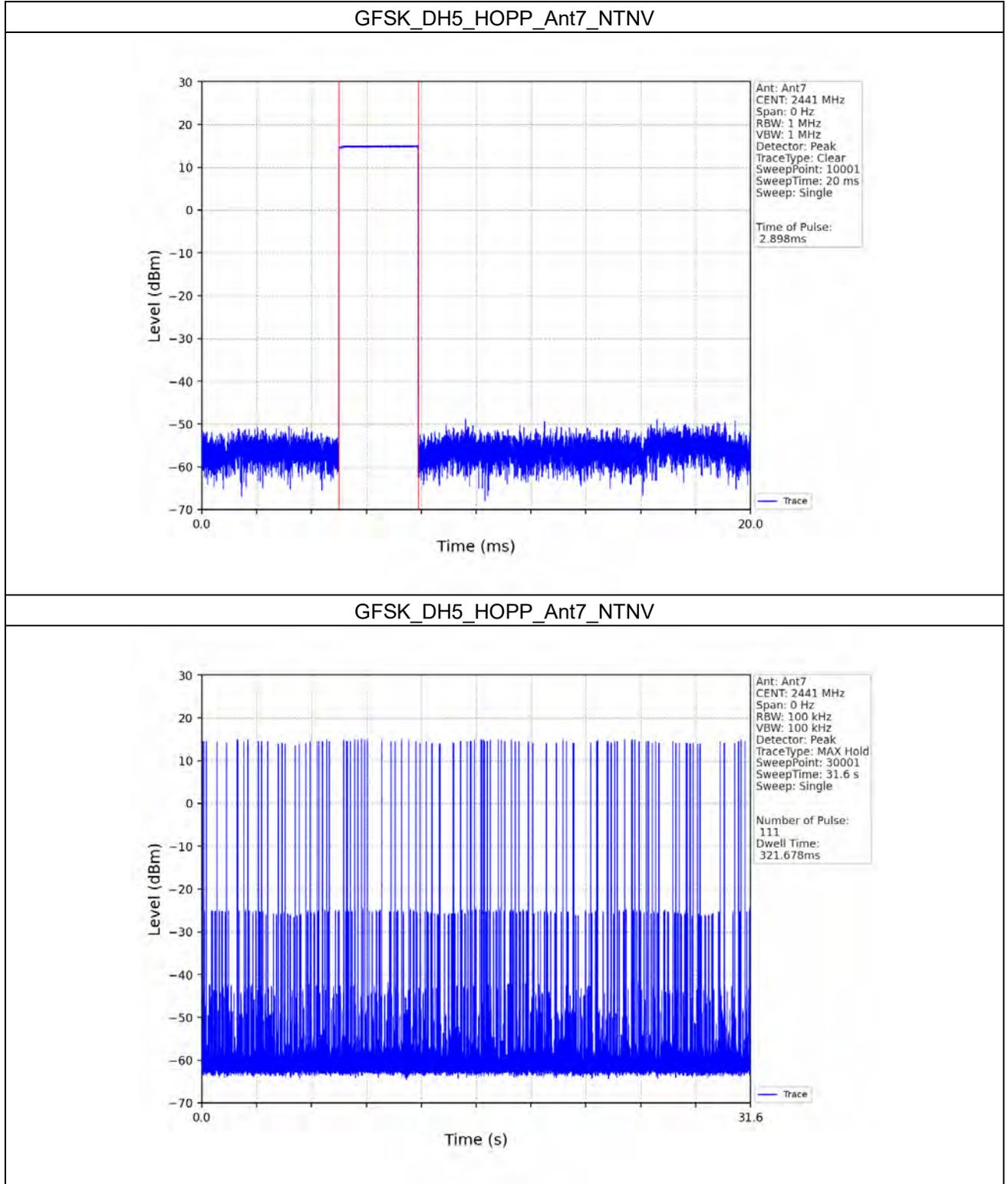
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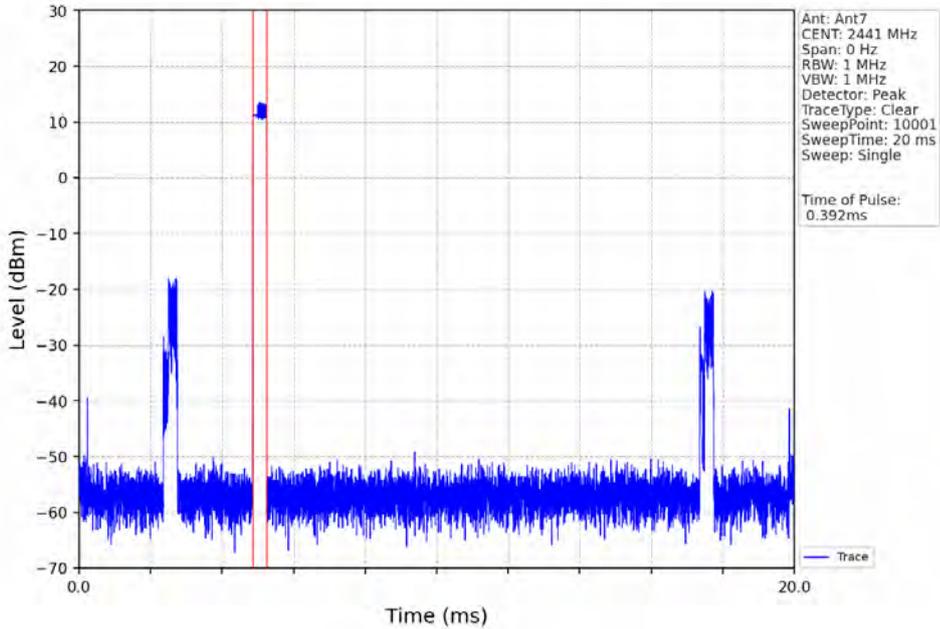


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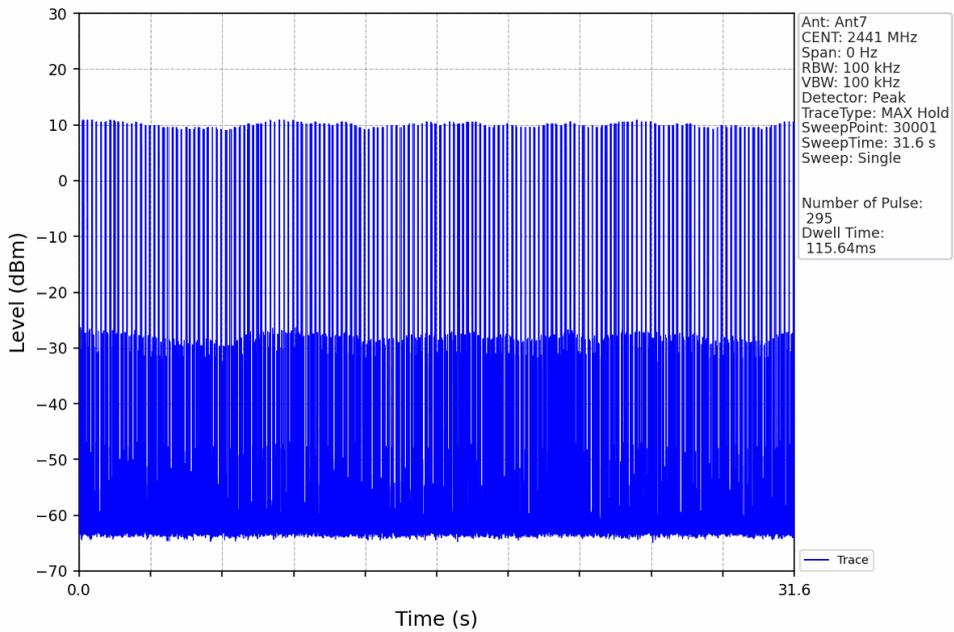
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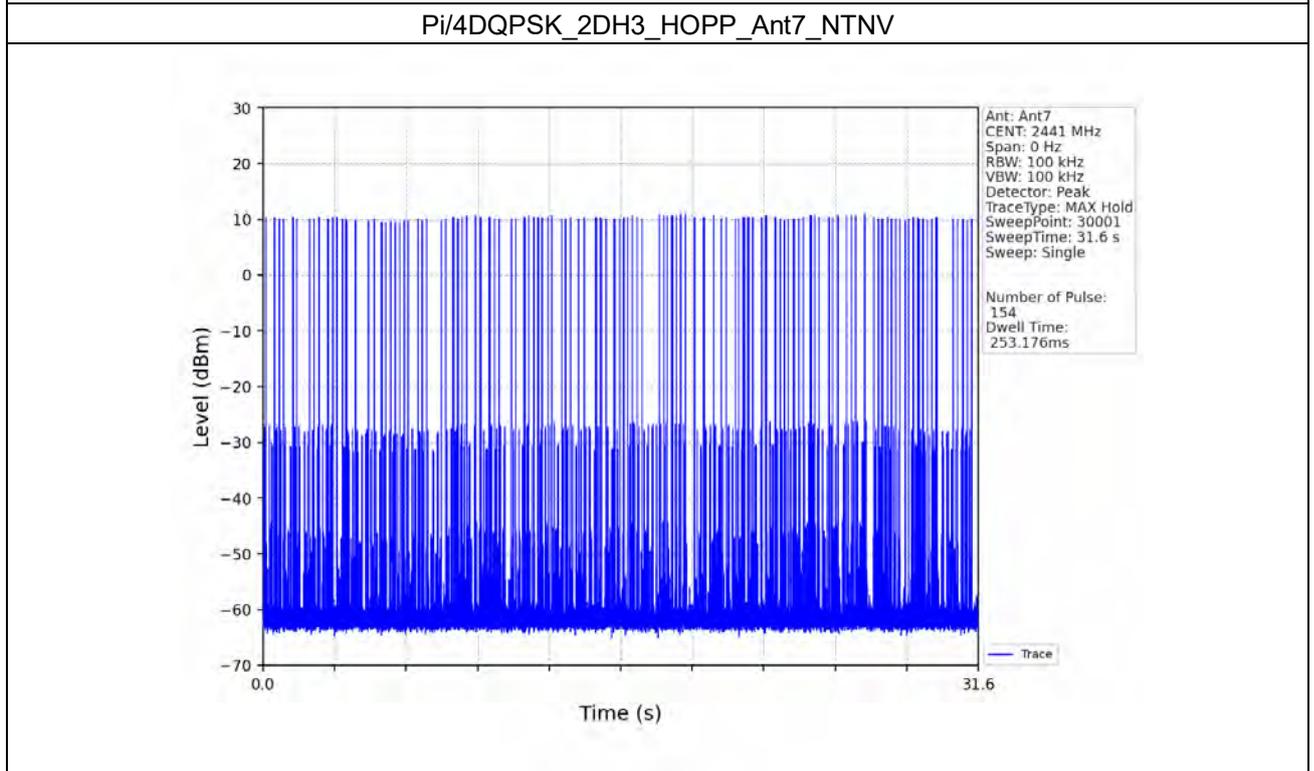
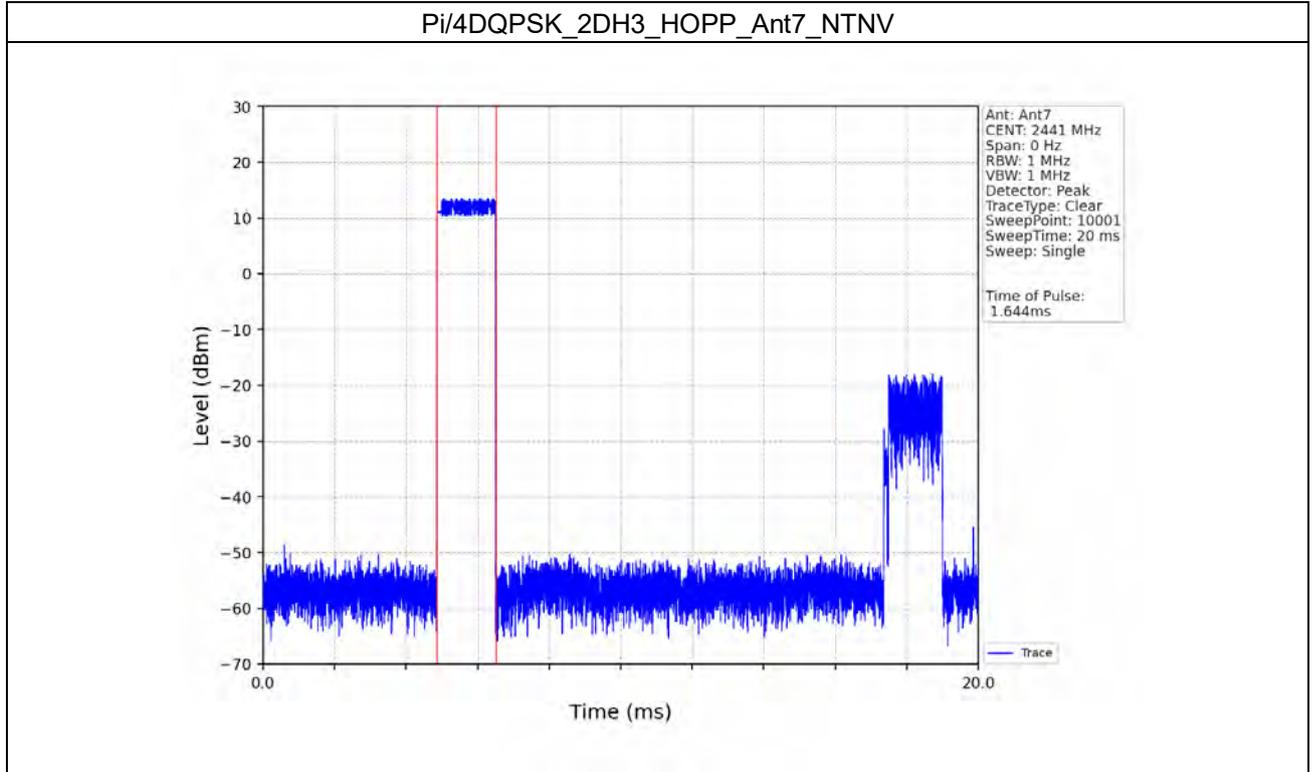
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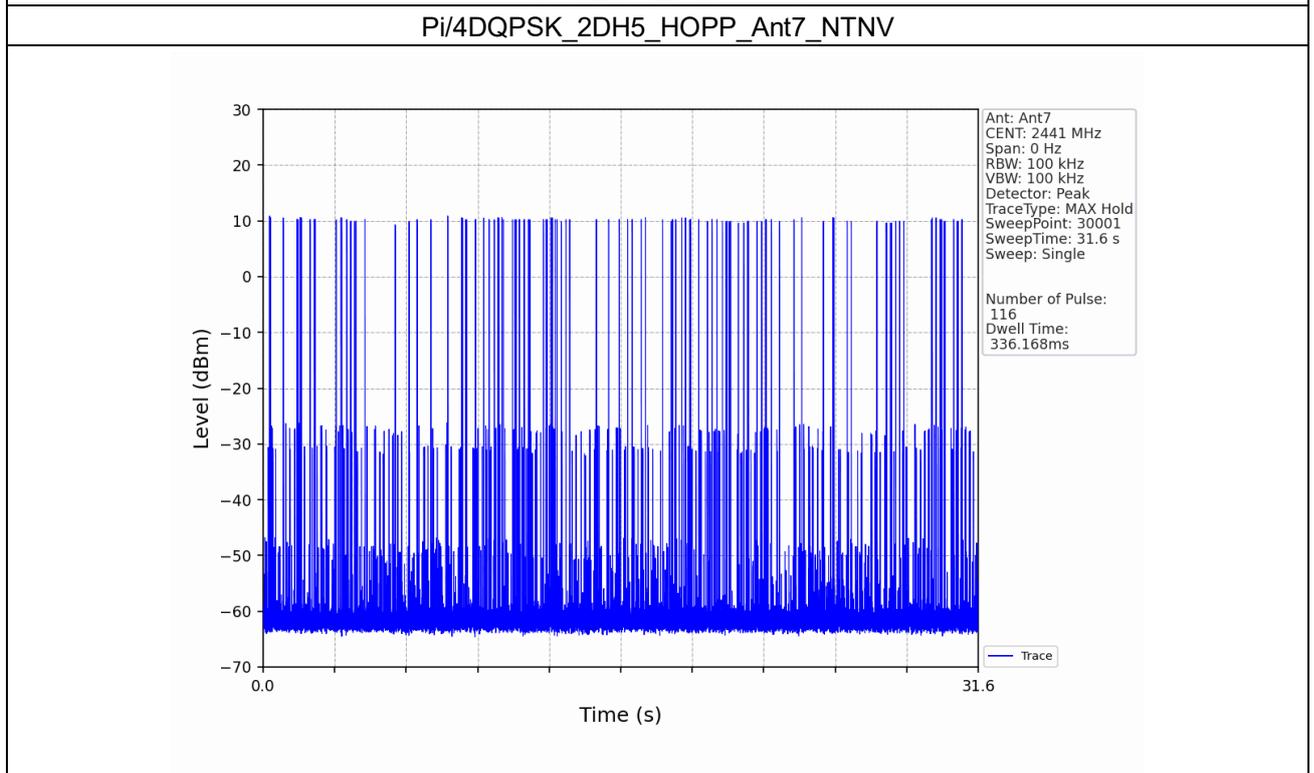
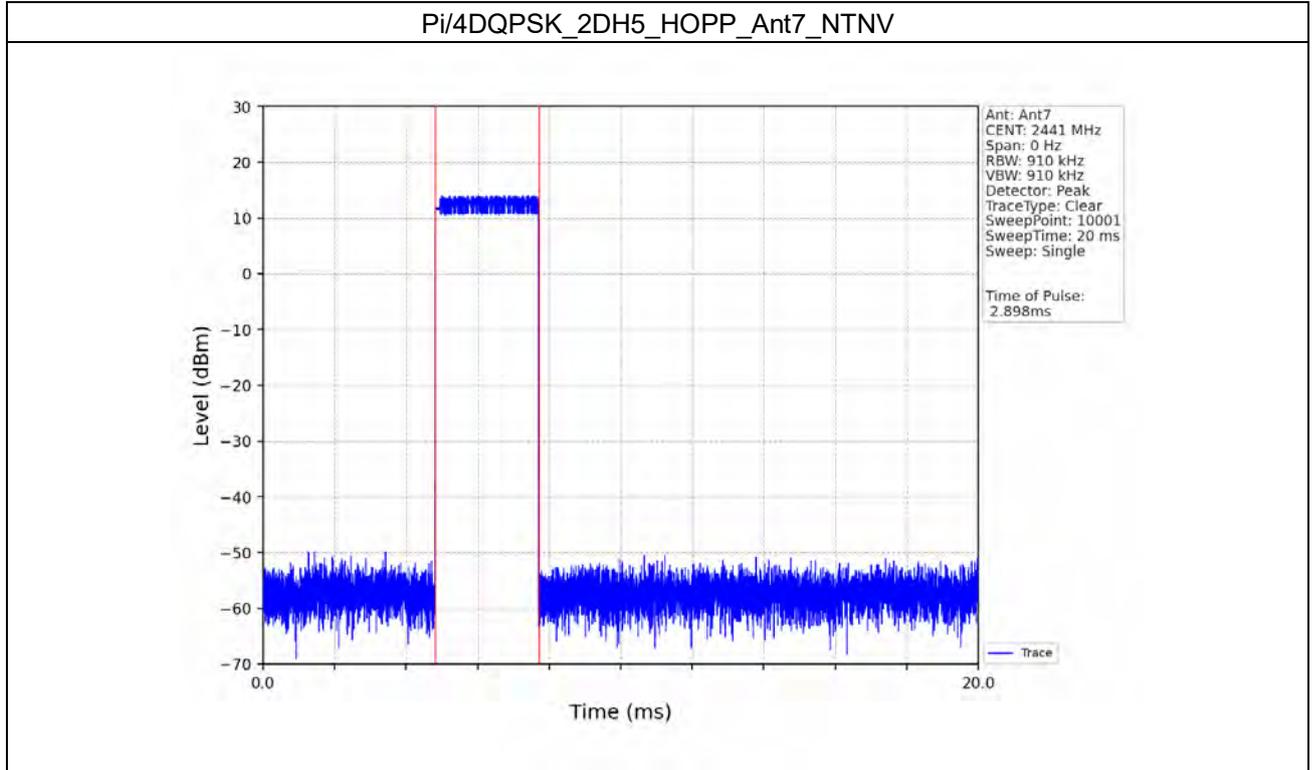
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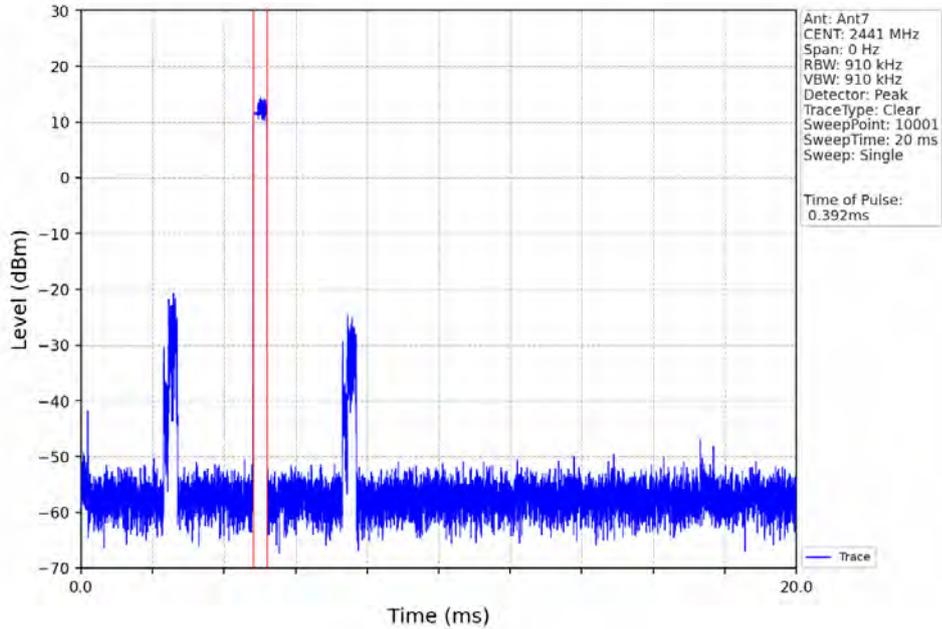


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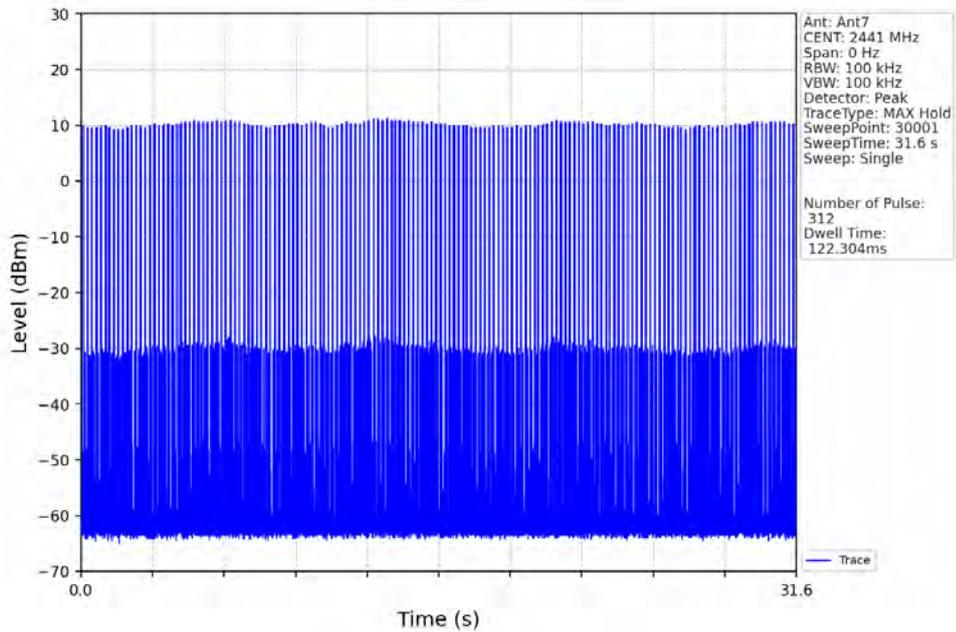
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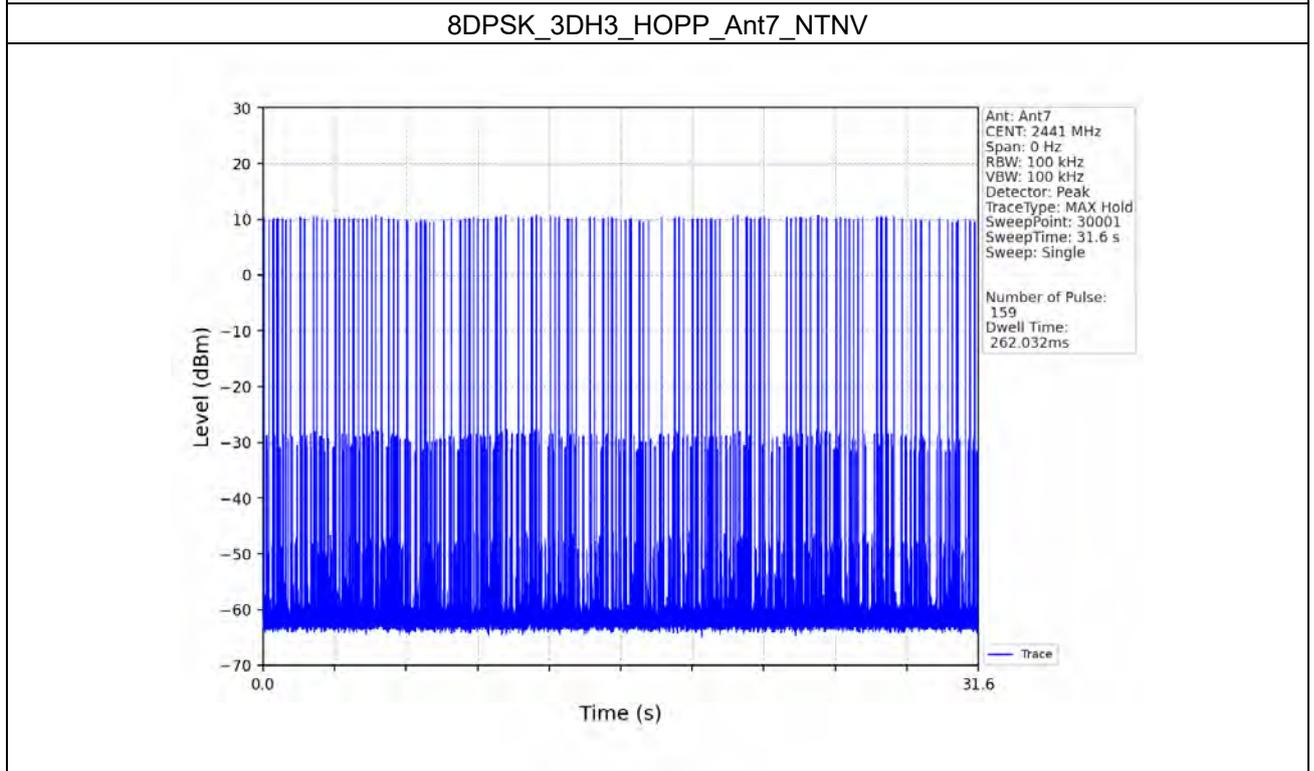
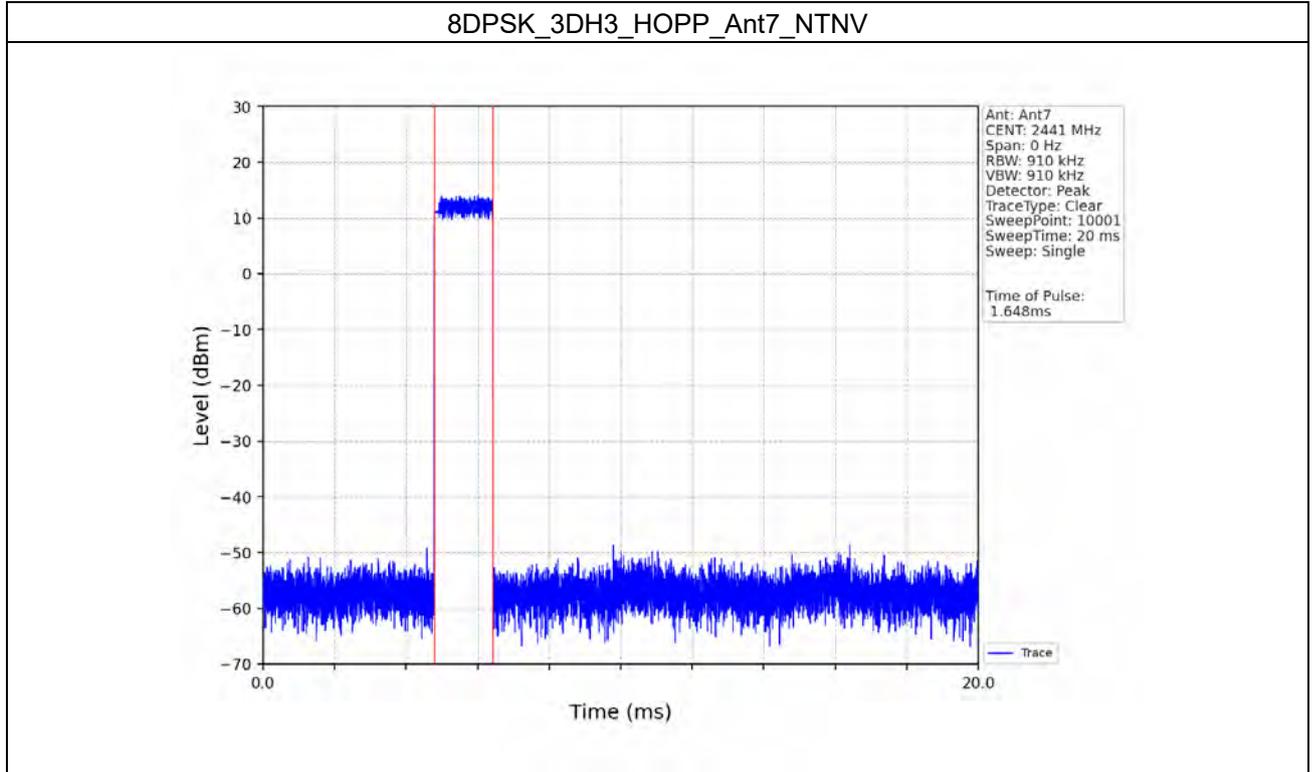
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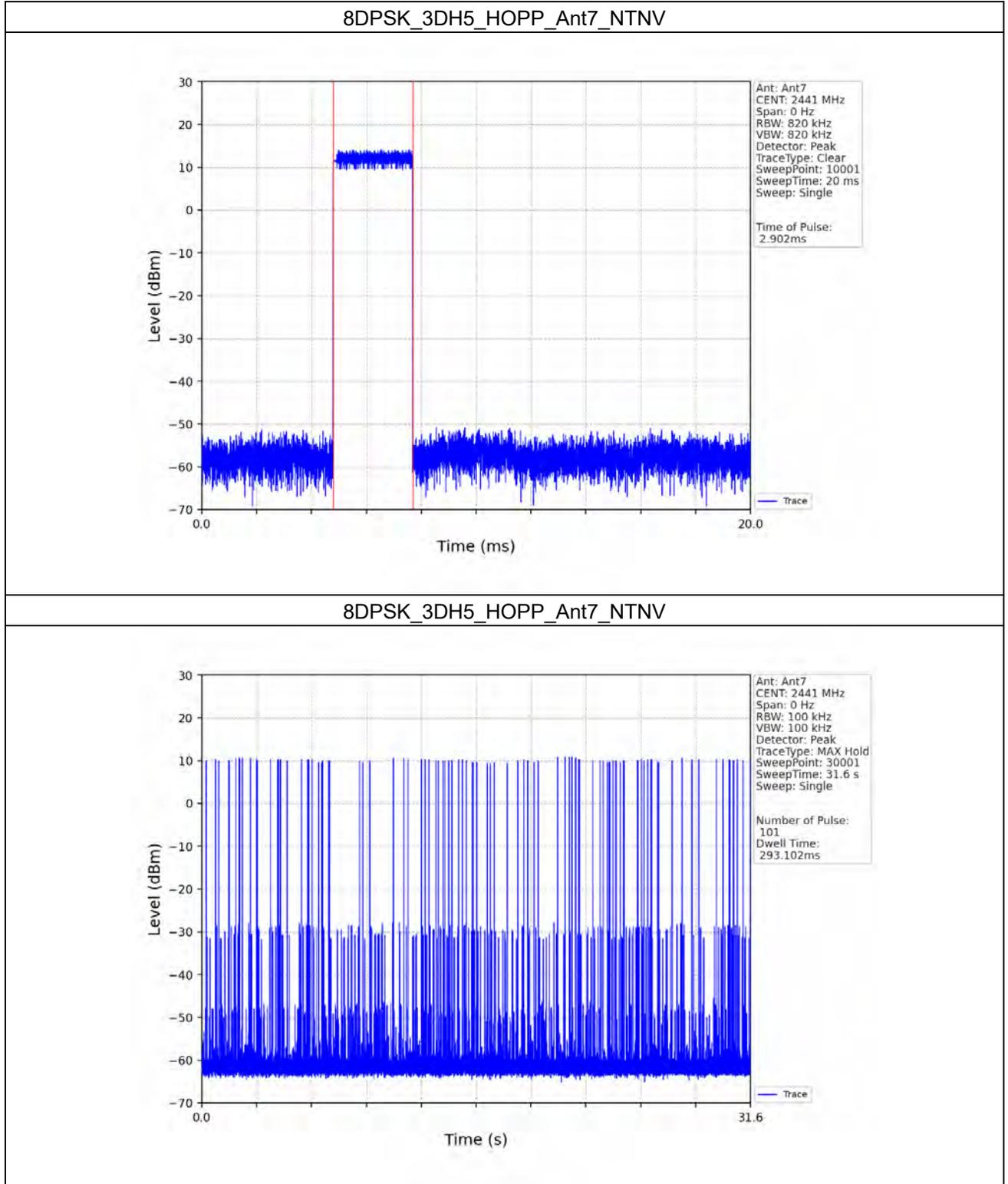


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6. Unwanted Emissions In Non-restricted Frequency Bands

6.1 Test Result

6.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	7	15.13
		2441	DH5	7	14.65
		2480	DH5	7	14.11
Pi/4DQPSK	SISO	2402	2DH5	7	11.38
		2441	2DH5	7	11.41
		2480	2DH5	7	10.60
8DPSK	SISO	2402	3DH5	7	11.43
		2441	3DH5	7	11.10
		2480	3DH5	7	10.53

6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	7	15.13	-4.87	Pass
		2441	DH5	7	15.13	-4.87	Pass
		2480	DH5	7	15.13	-4.87	Pass
		HOPP	DH5	7	15.13	-4.87	Pass
					15.13	-4.87	Pass
Pi/4DQPSK	SISO	2402	2DH5	7	11.41	-8.59	Pass
		2441	2DH5	7	11.41	-8.59	Pass
		2480	2DH5	7	11.41	-8.59	Pass
		HOPP	2DH5	7	11.41	-8.59	Pass
					11.41	-8.59	Pass
8DPSK	SISO	2402	3DH5	7	11.43	-8.57	Pass
		2441	3DH5	7	11.43	-8.57	Pass
		2480	3DH5	7	11.43	-8.57	Pass
		HOPP	3DH5	7	11.43	-8.57	Pass
					11.43	-8.57	Pass

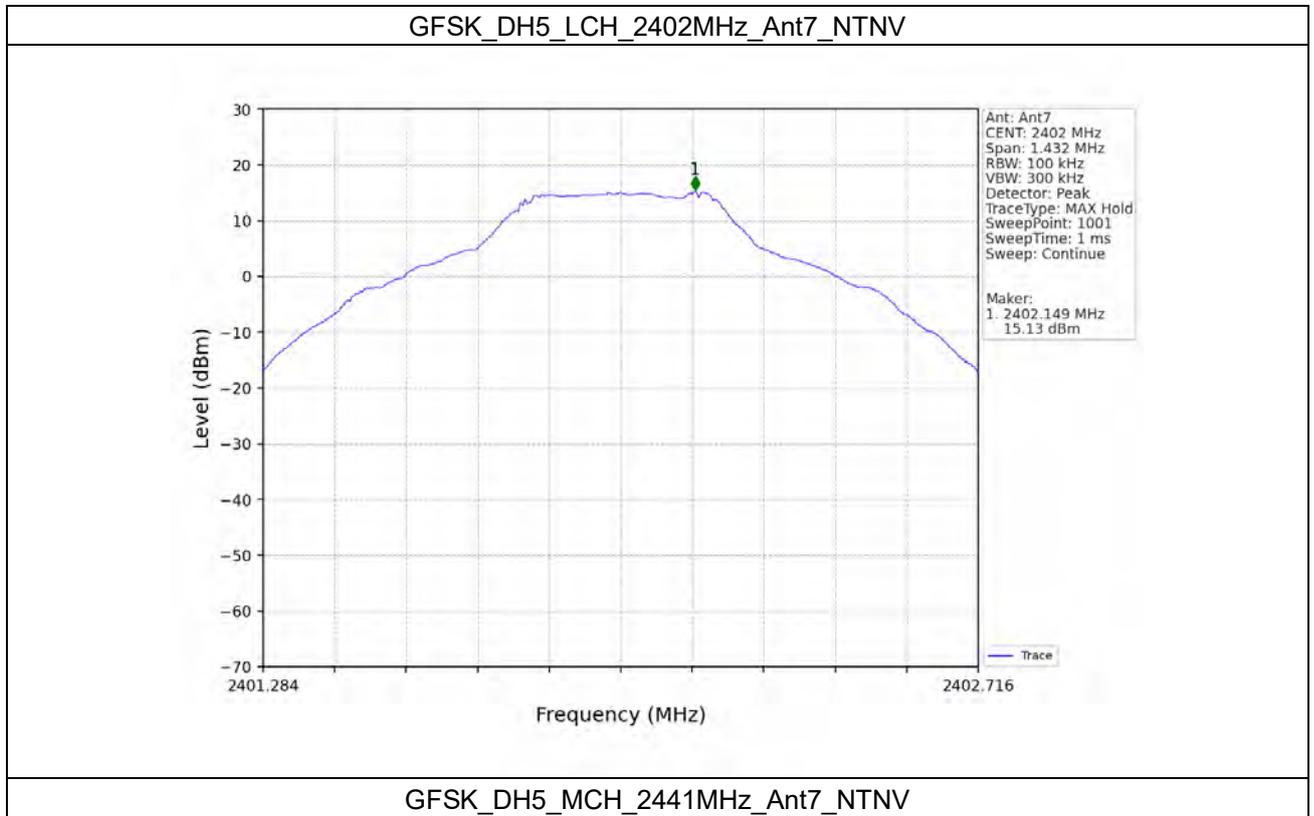


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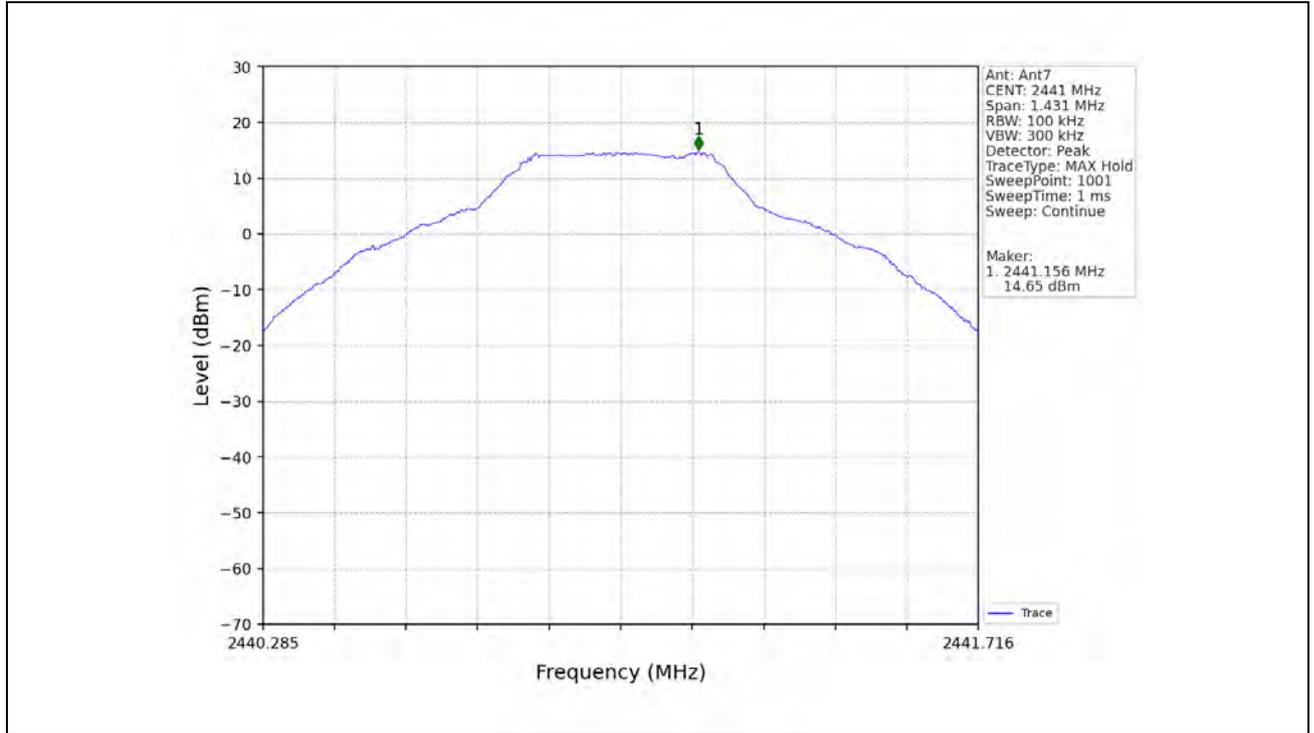
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6.2 Test Graph

6.2.1 Ref

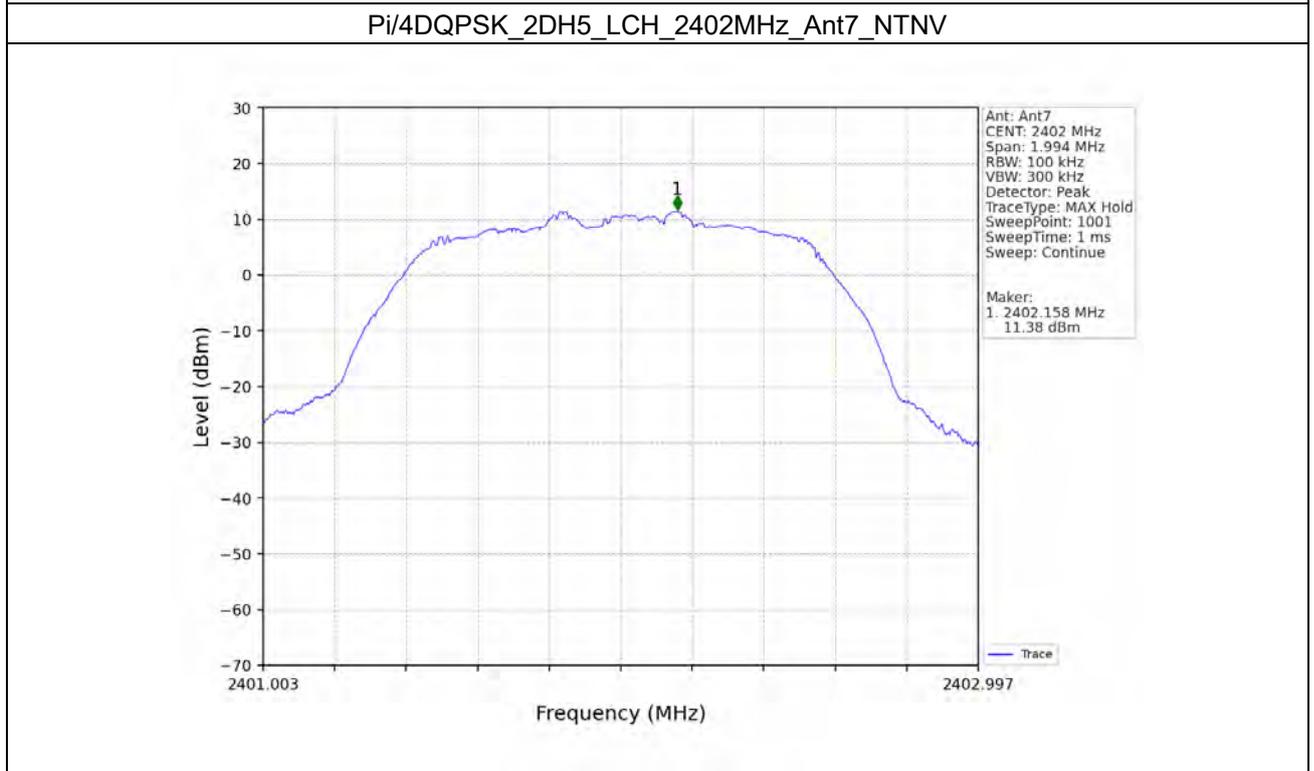
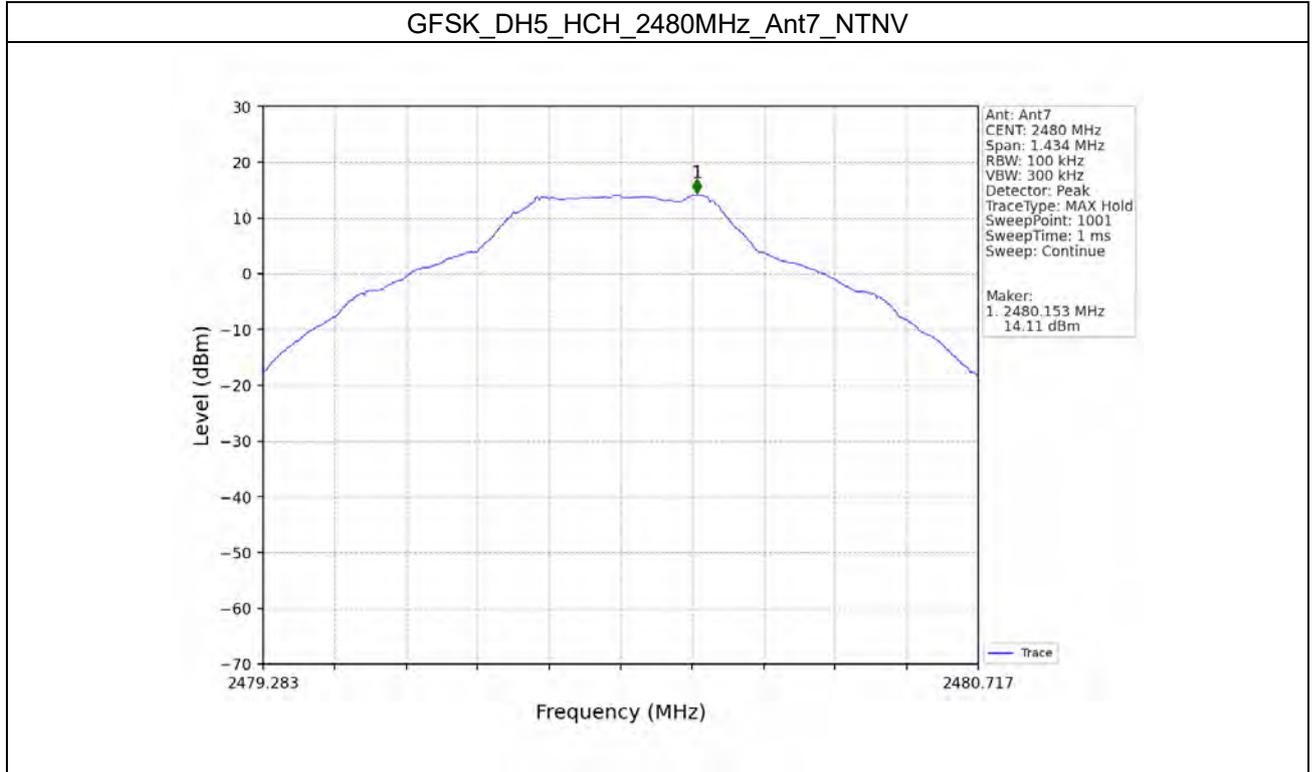


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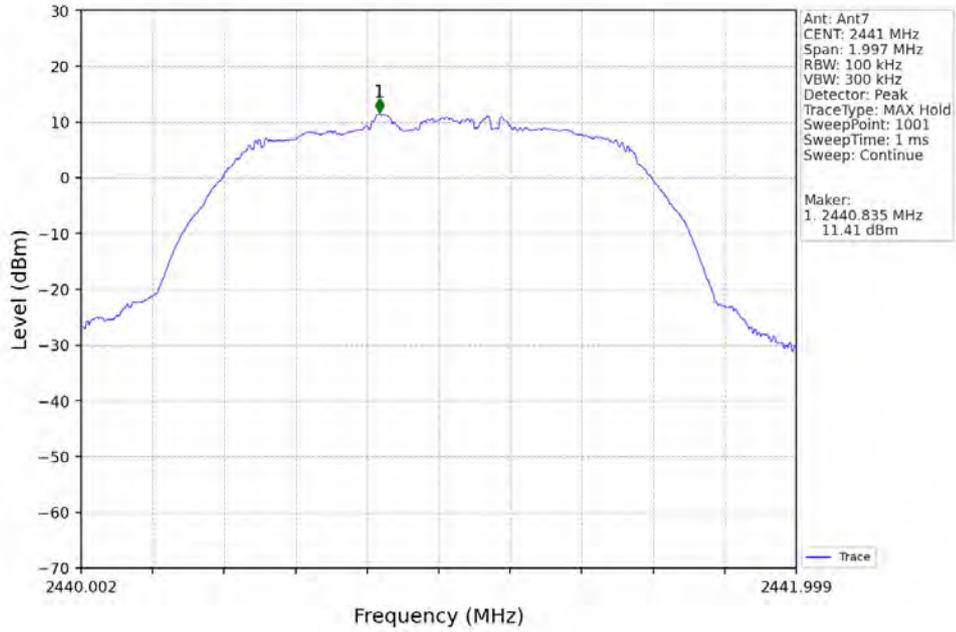
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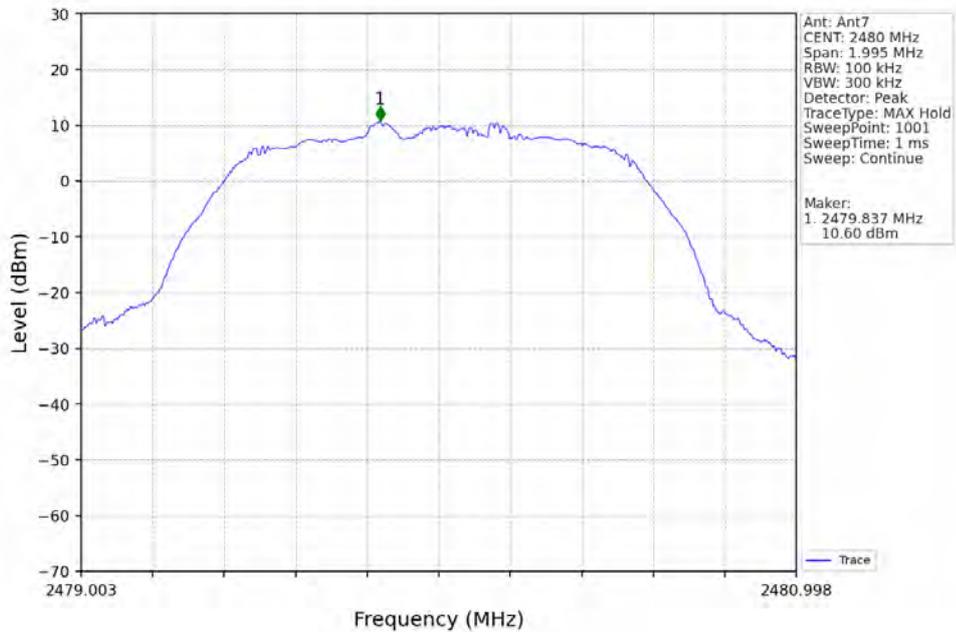


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV

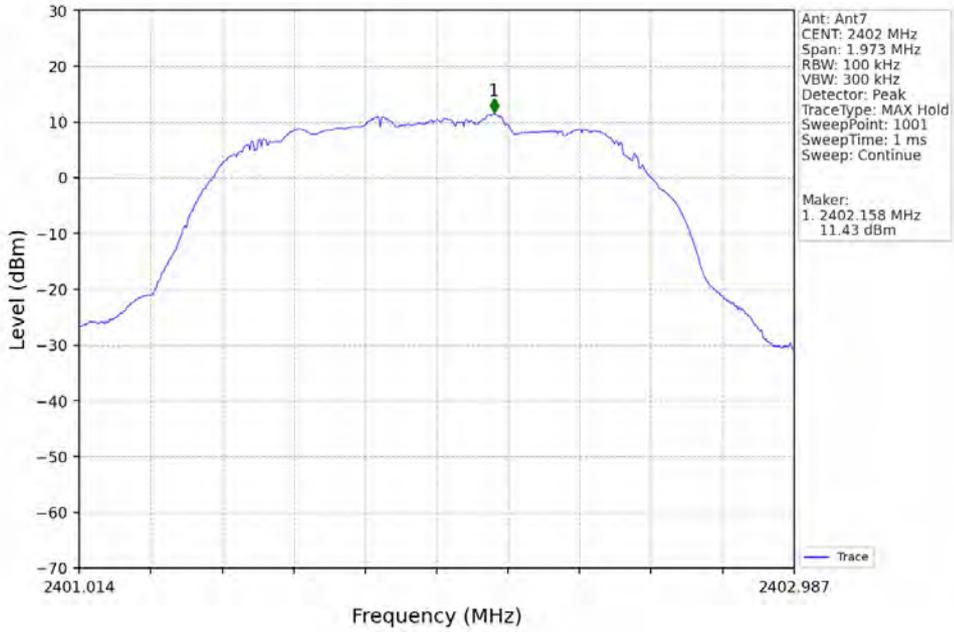


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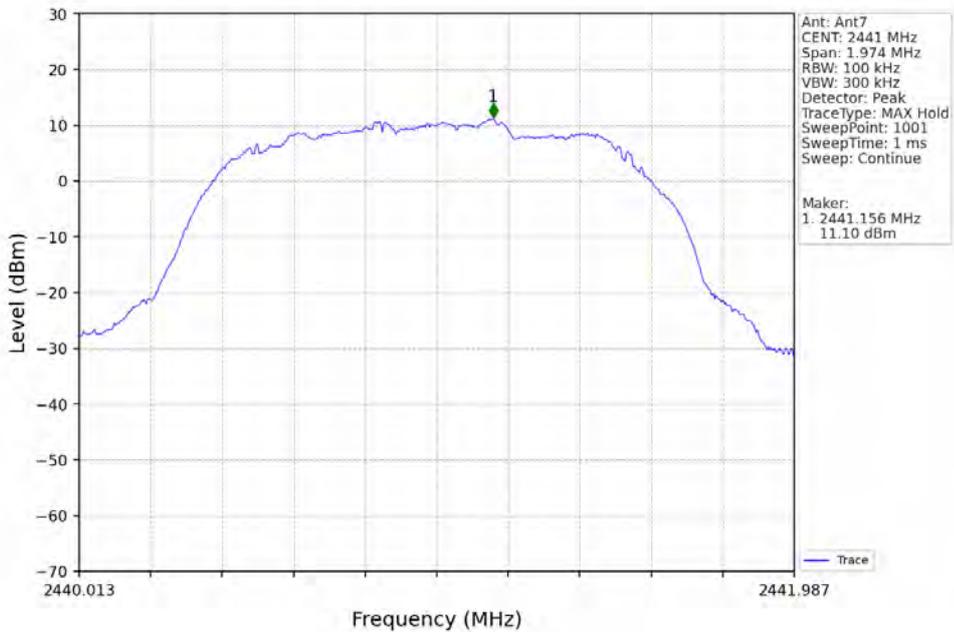


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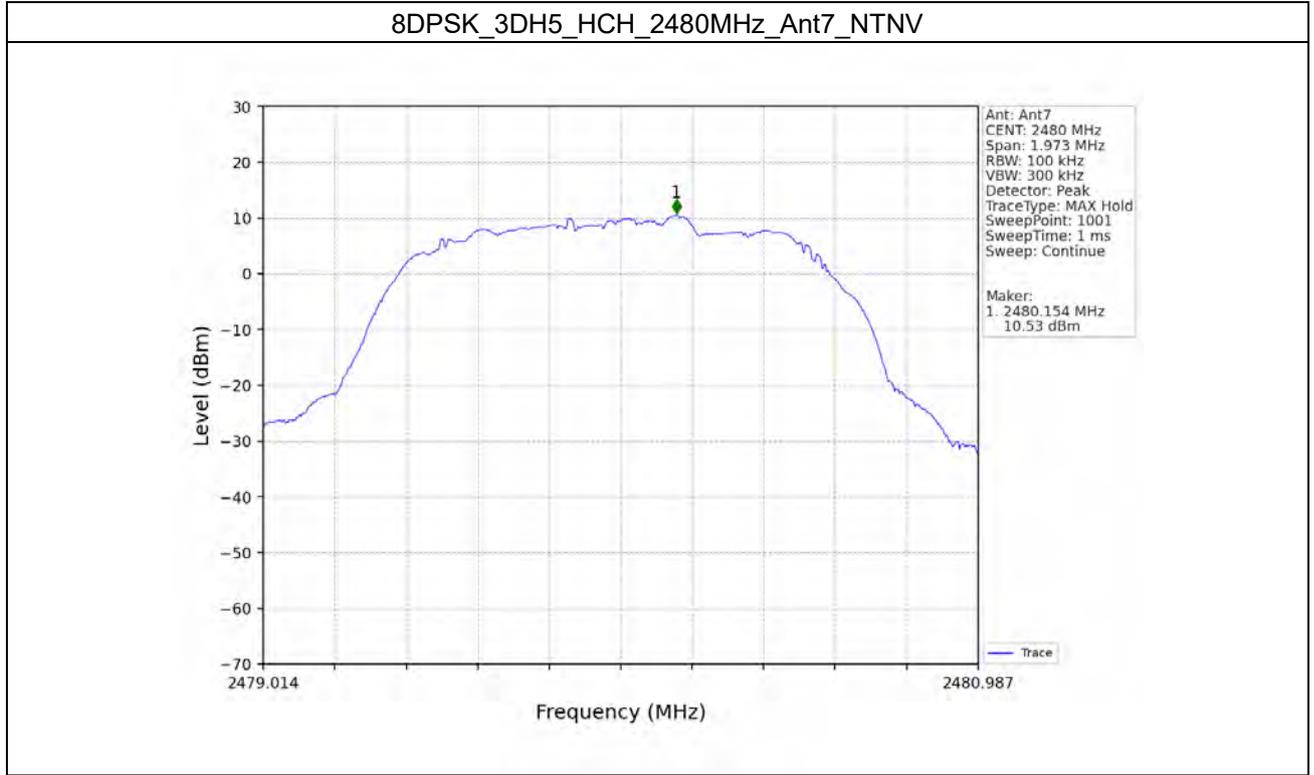
8DPSK_3DH5_LCH_2402MHz_Ant7_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV

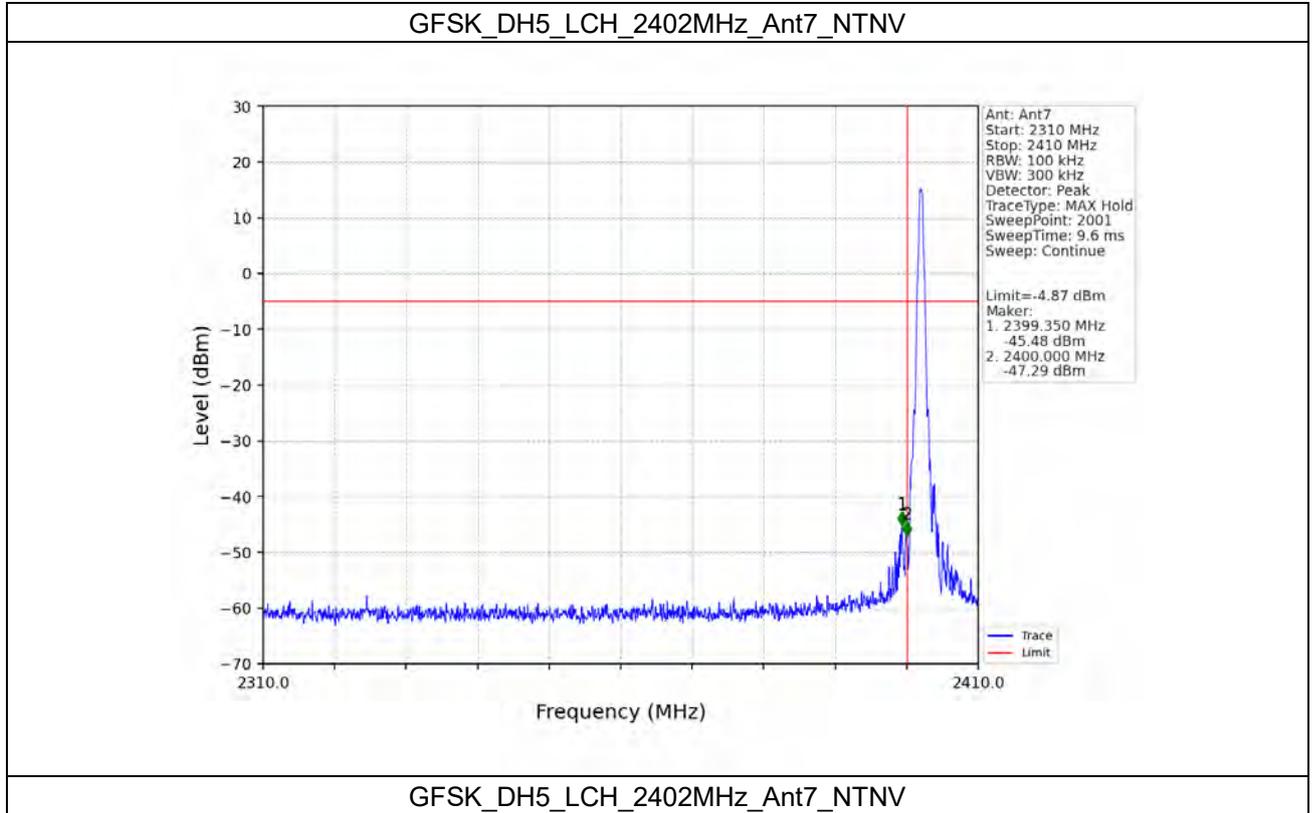


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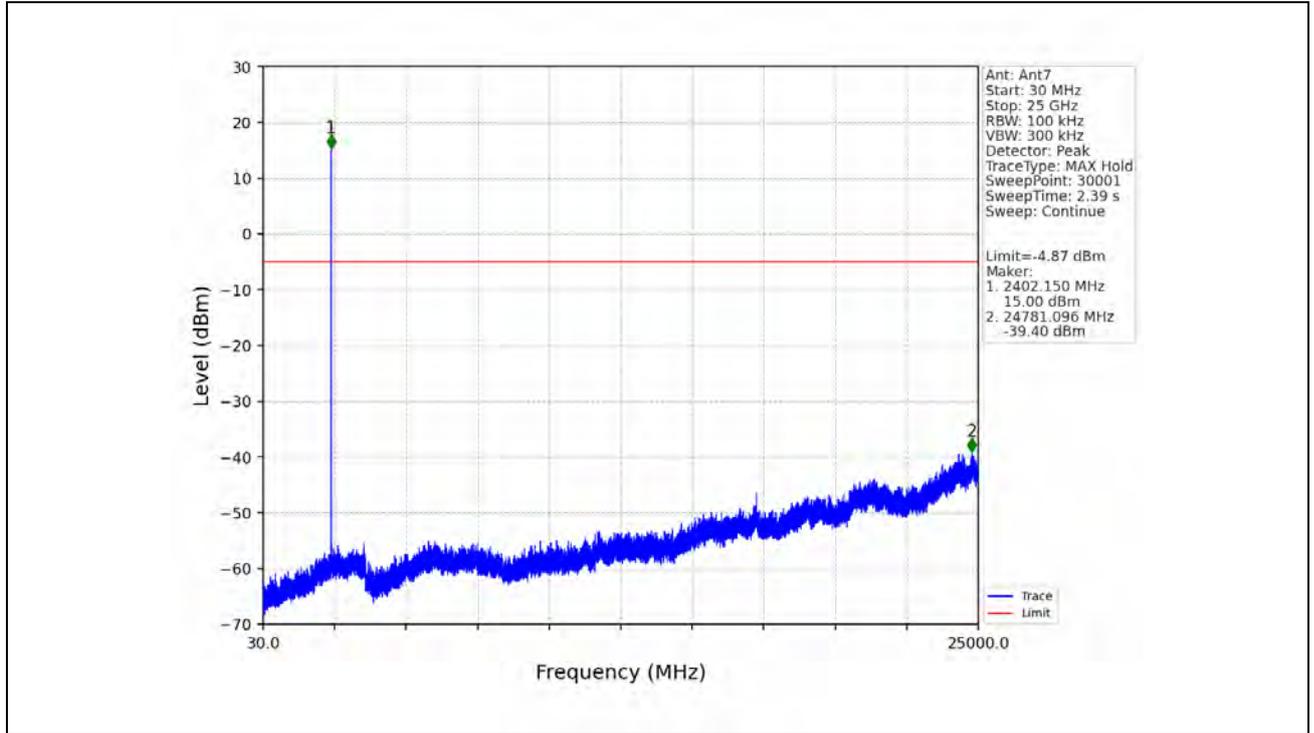
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6.2.2 CSE



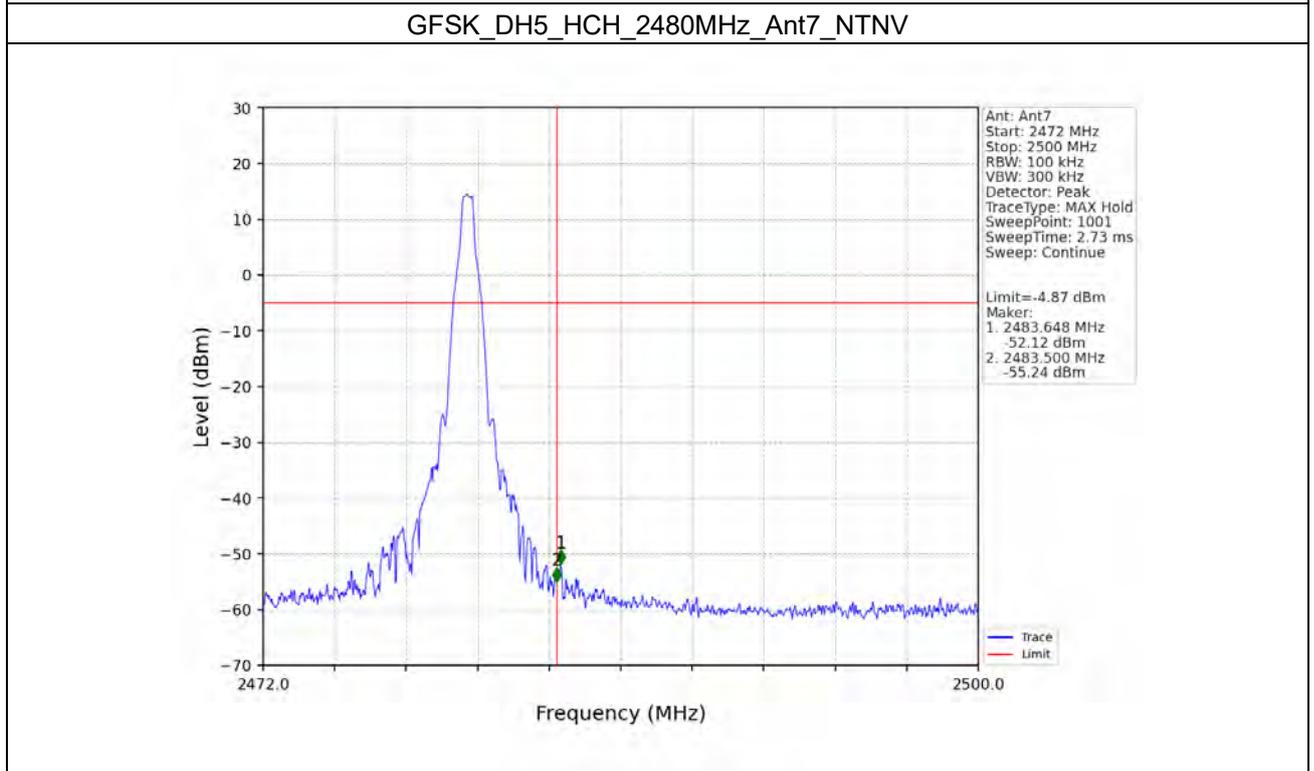
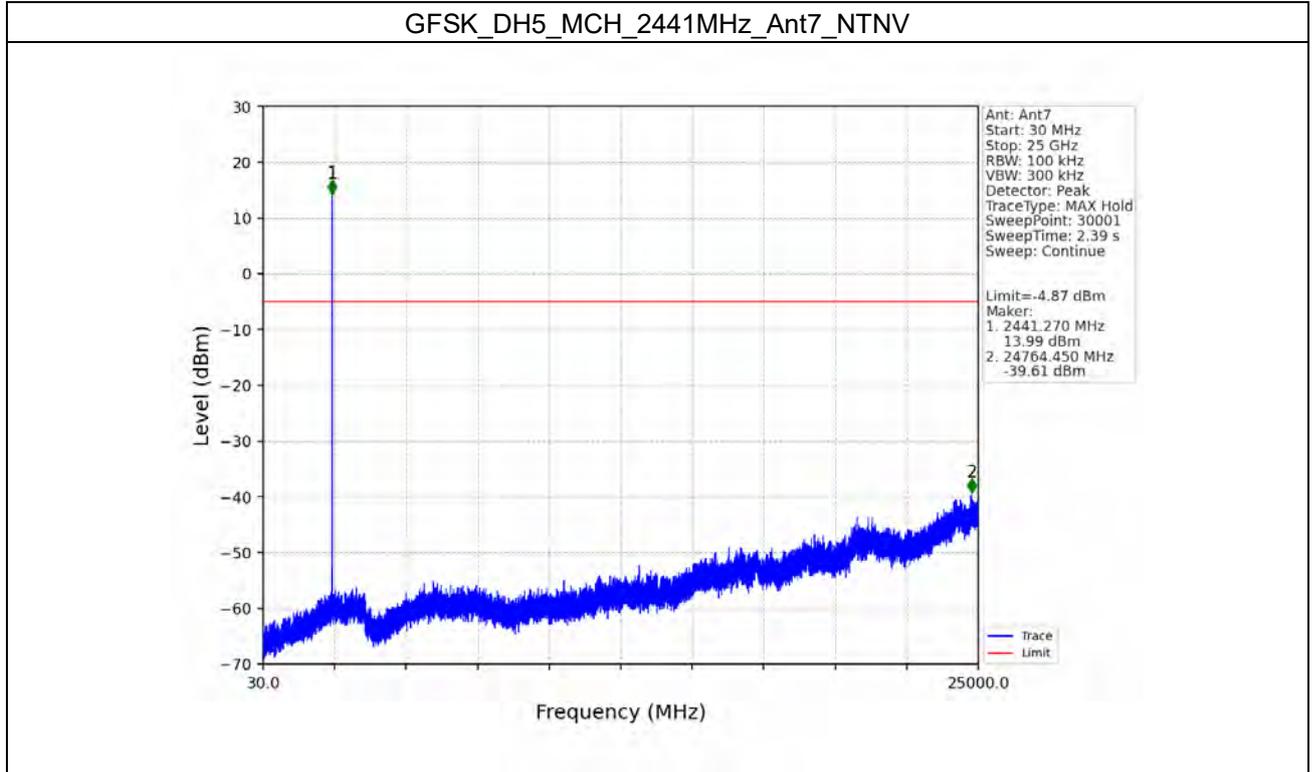
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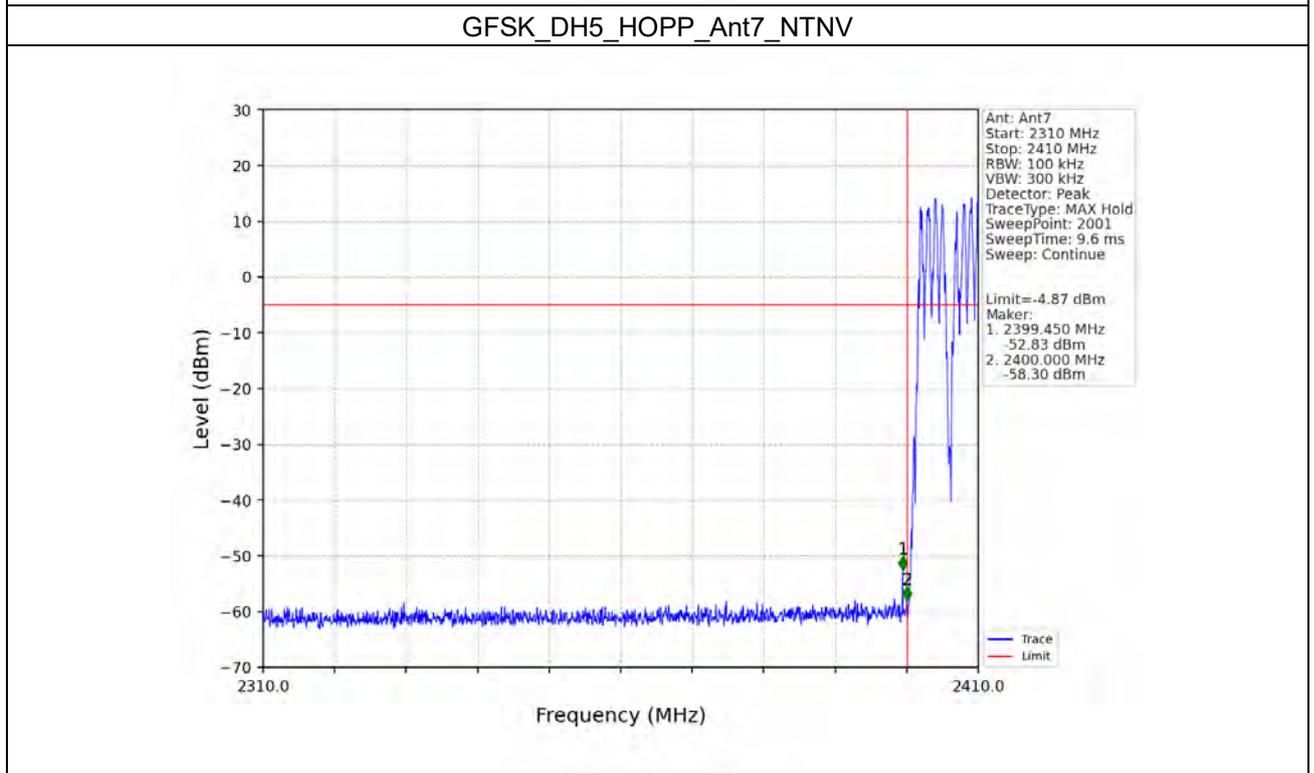
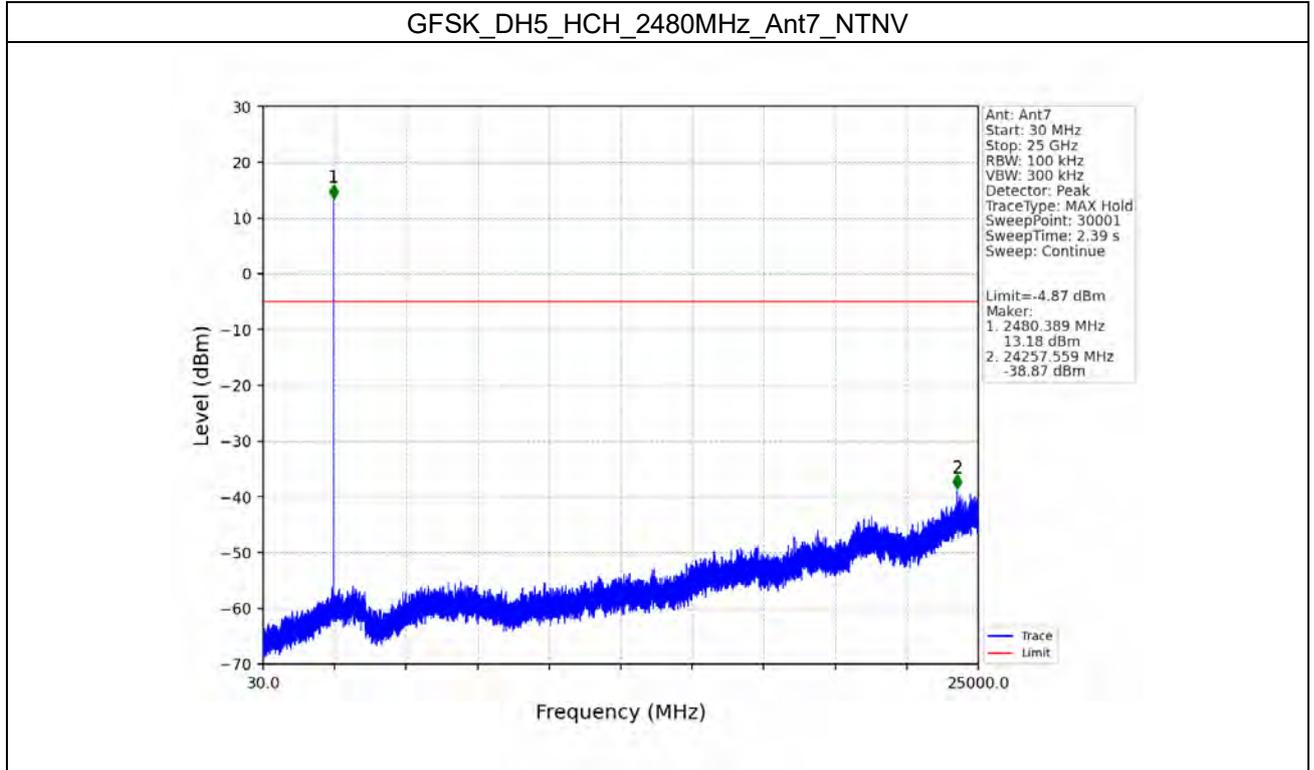
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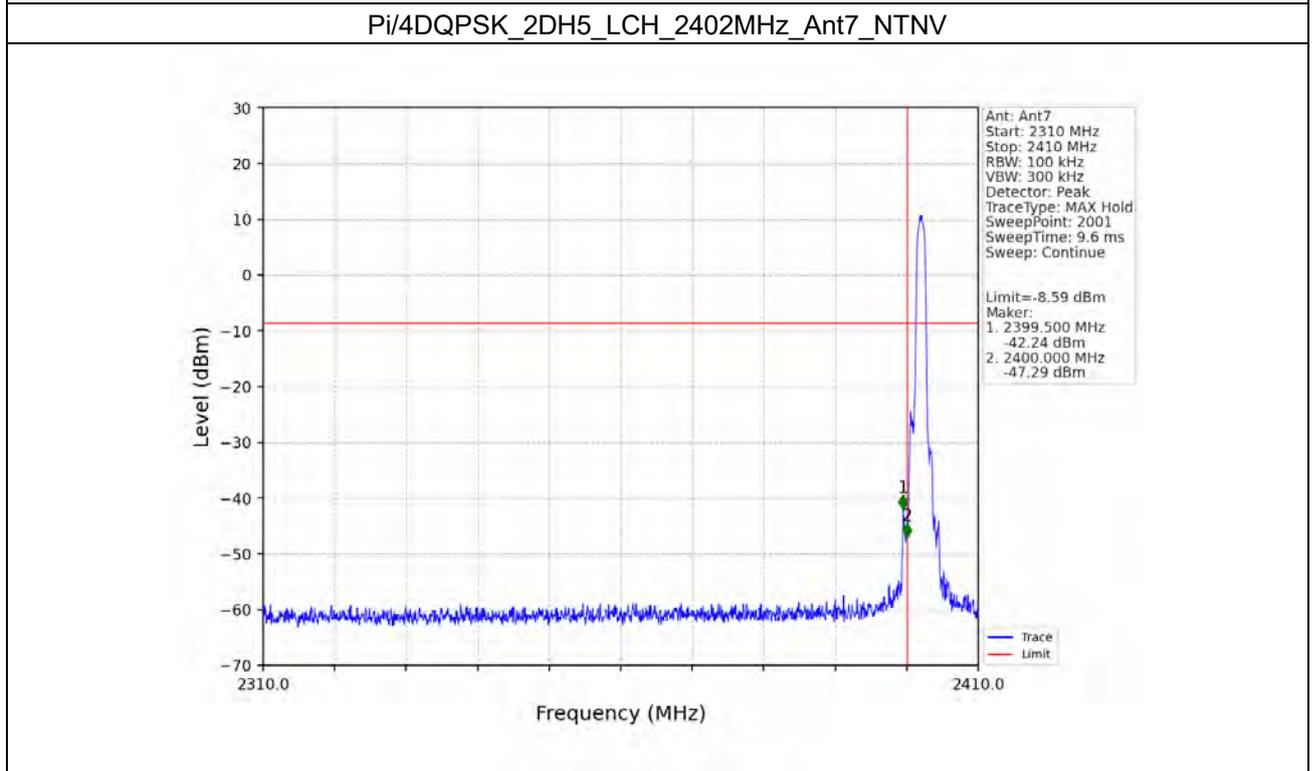
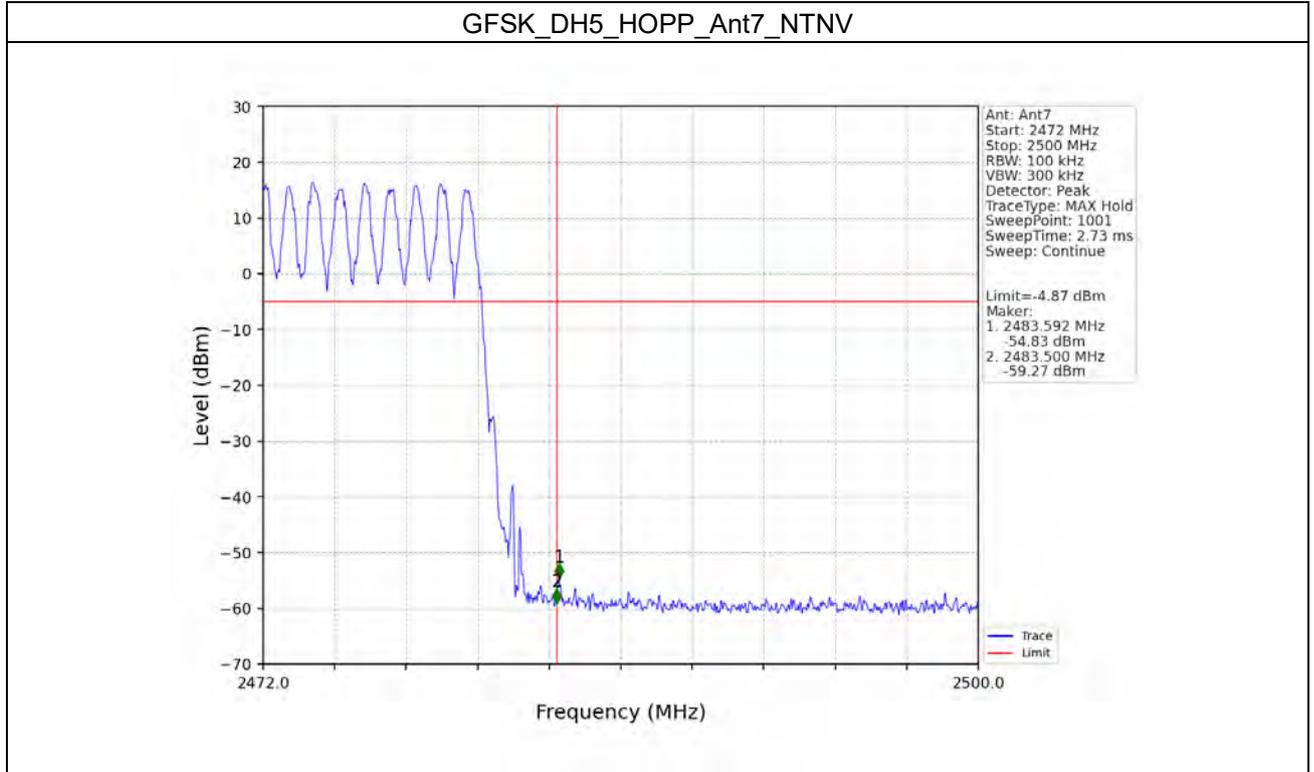
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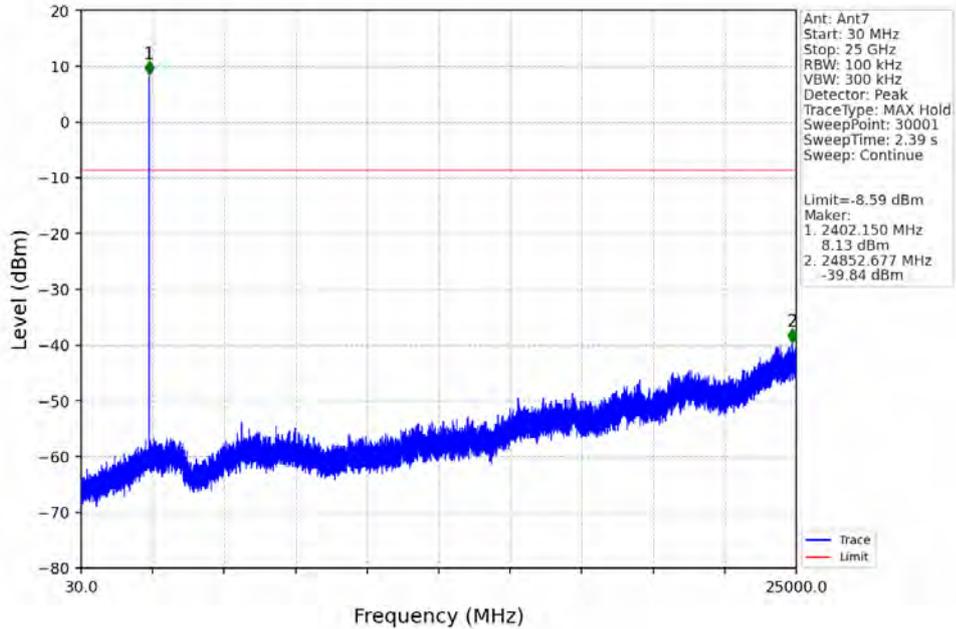


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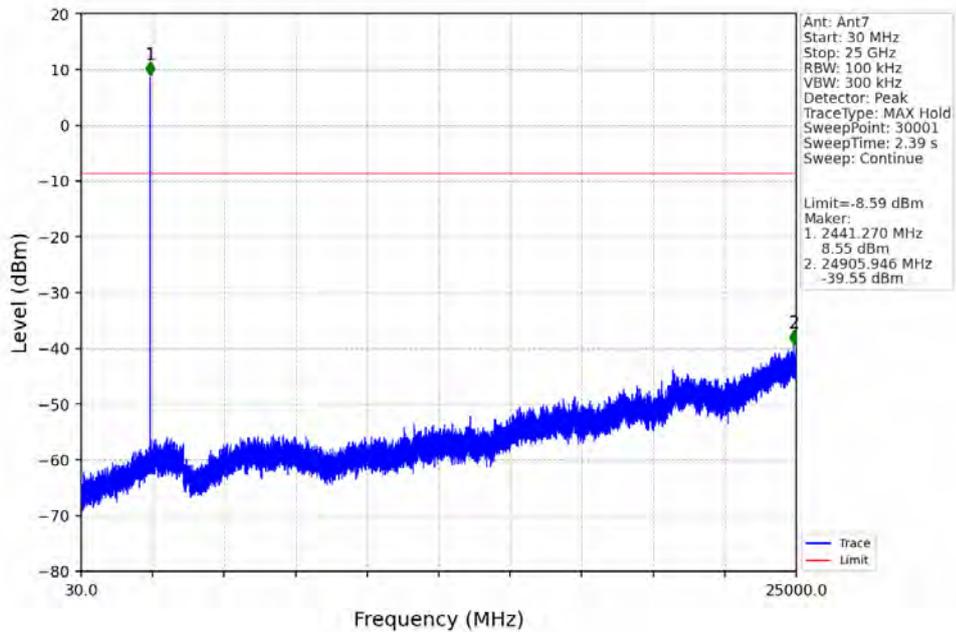


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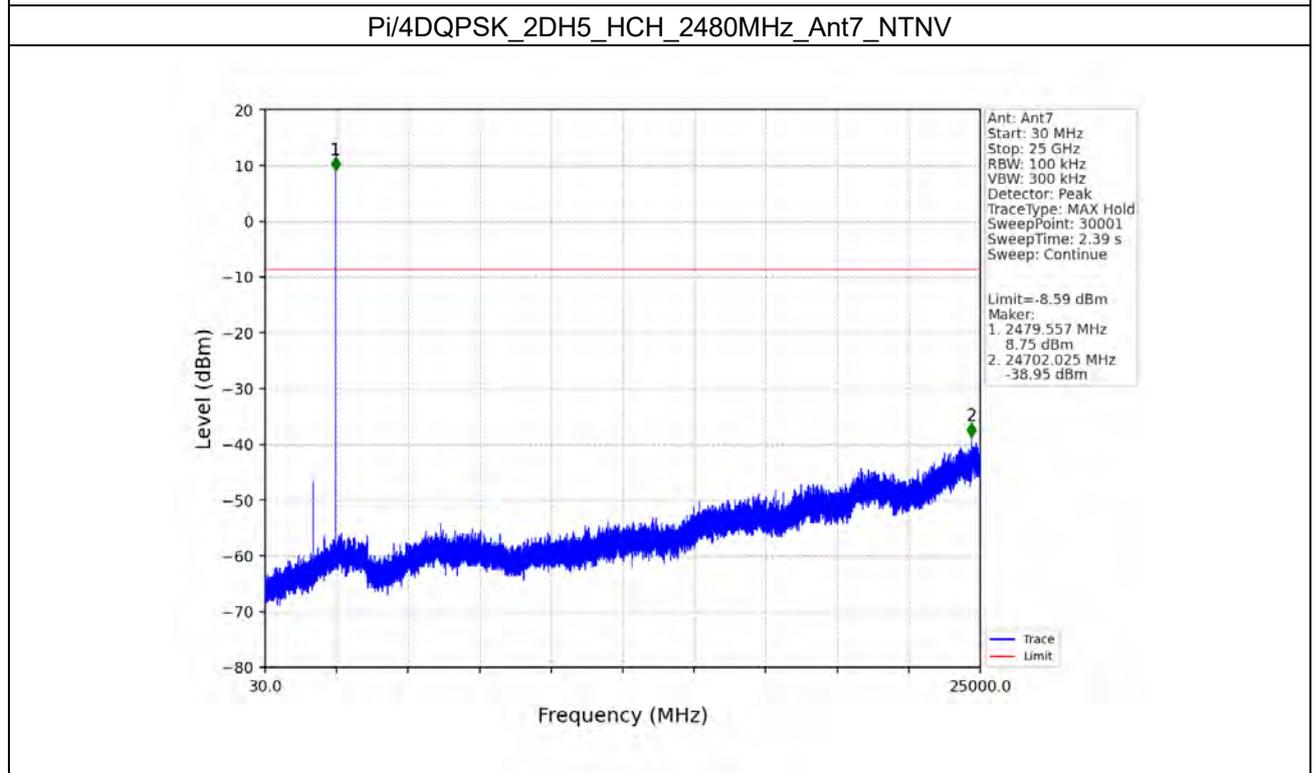
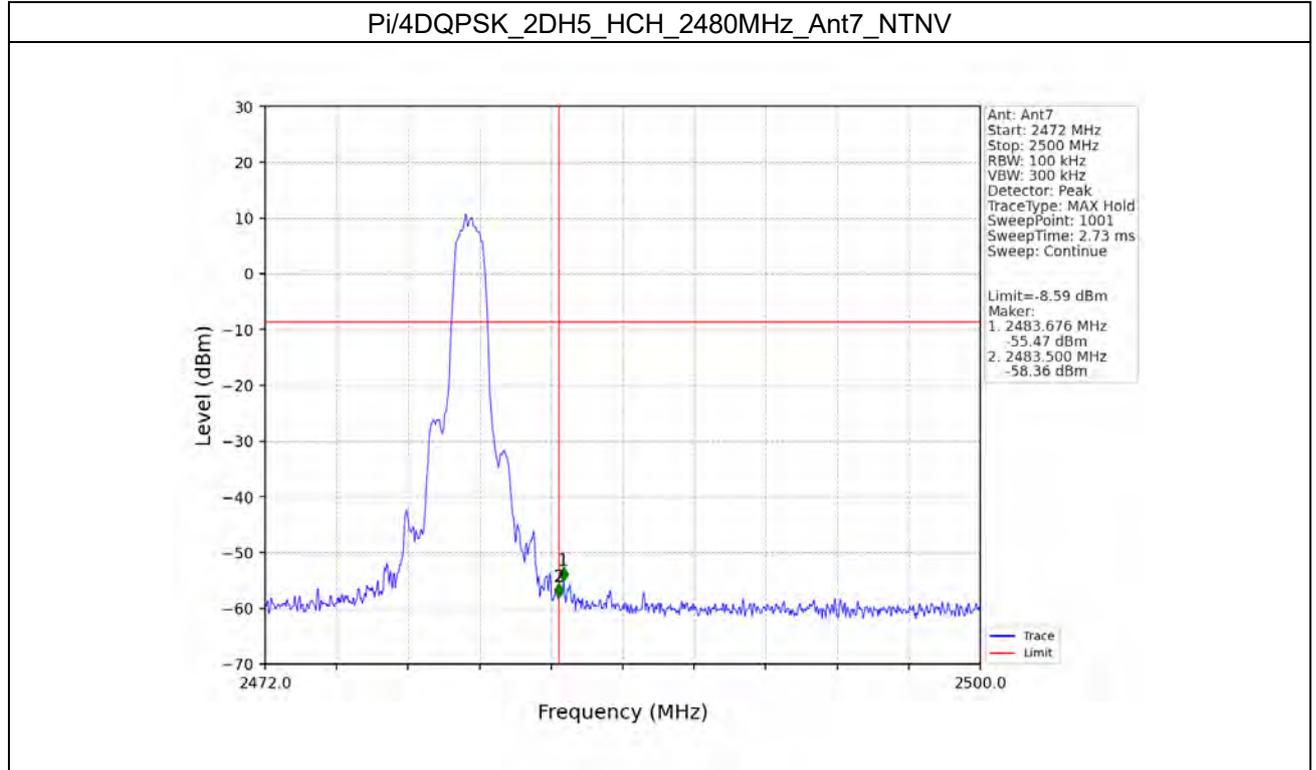
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant7_NTNV



Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV

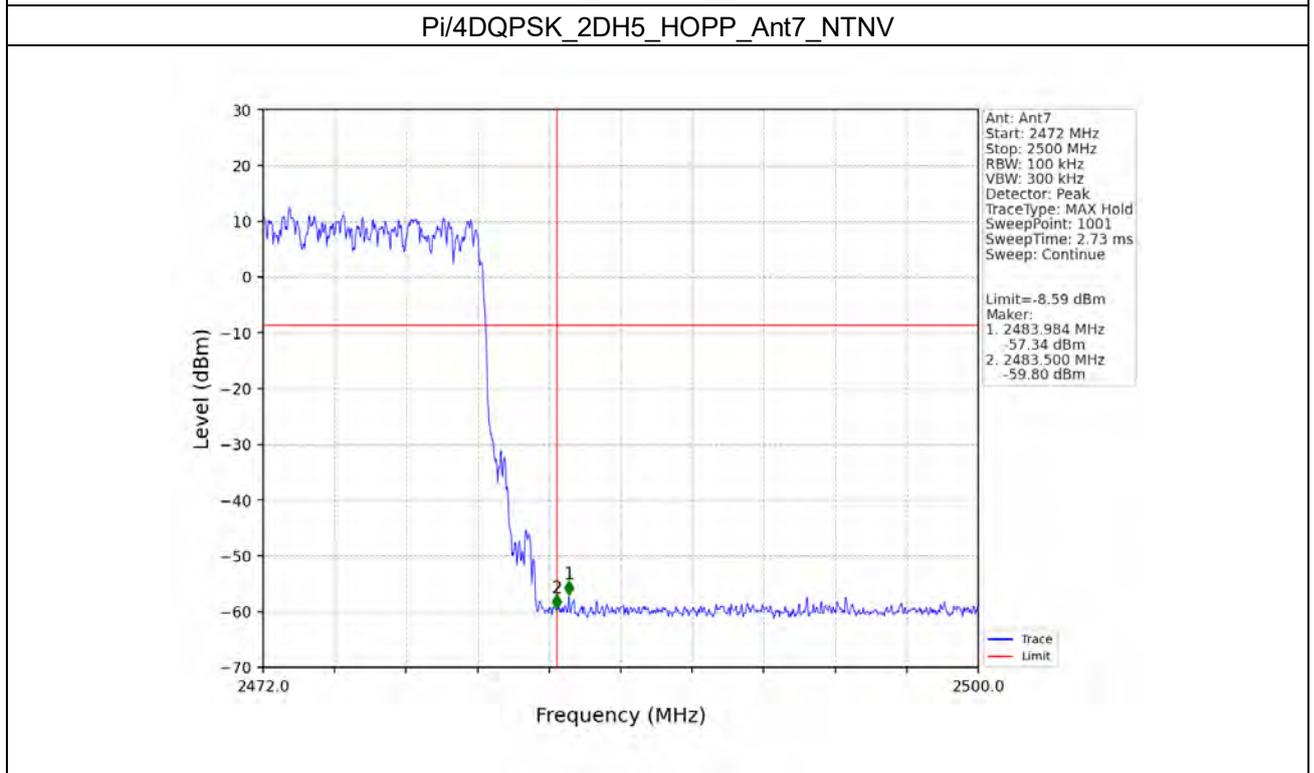
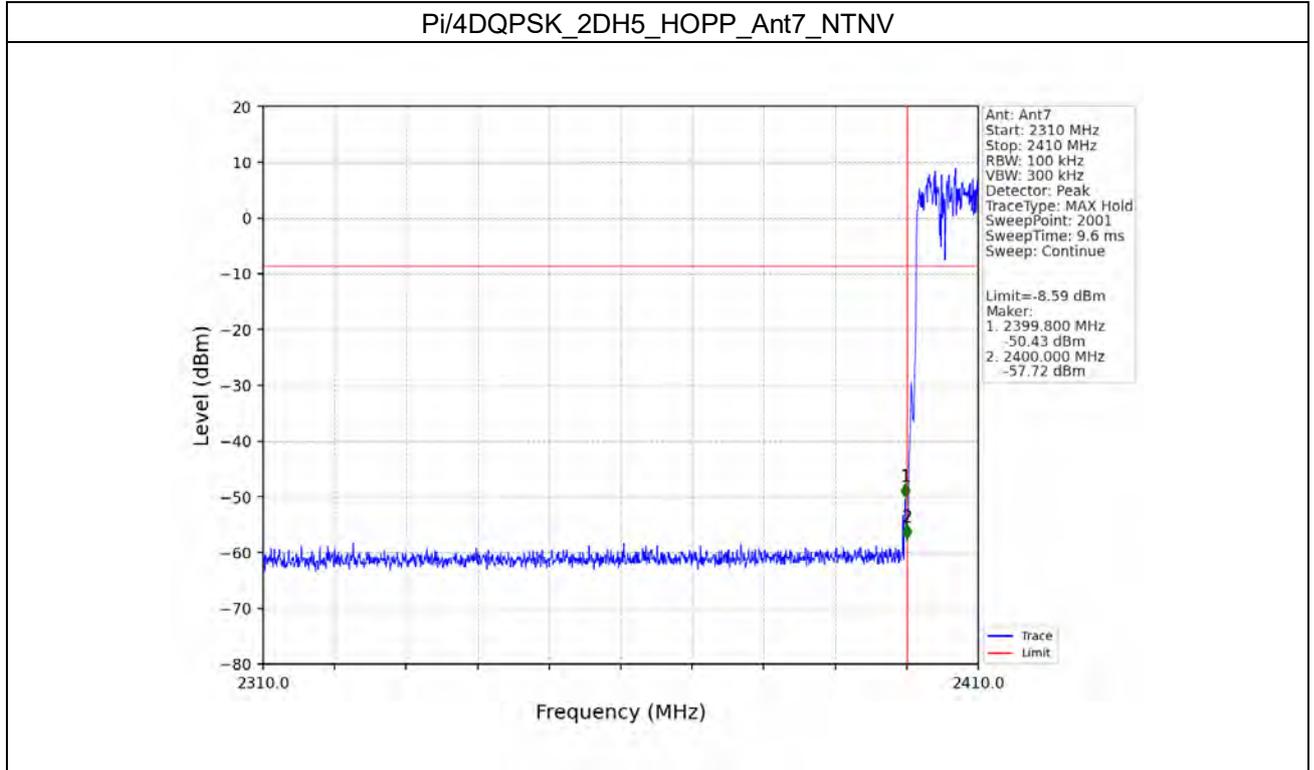


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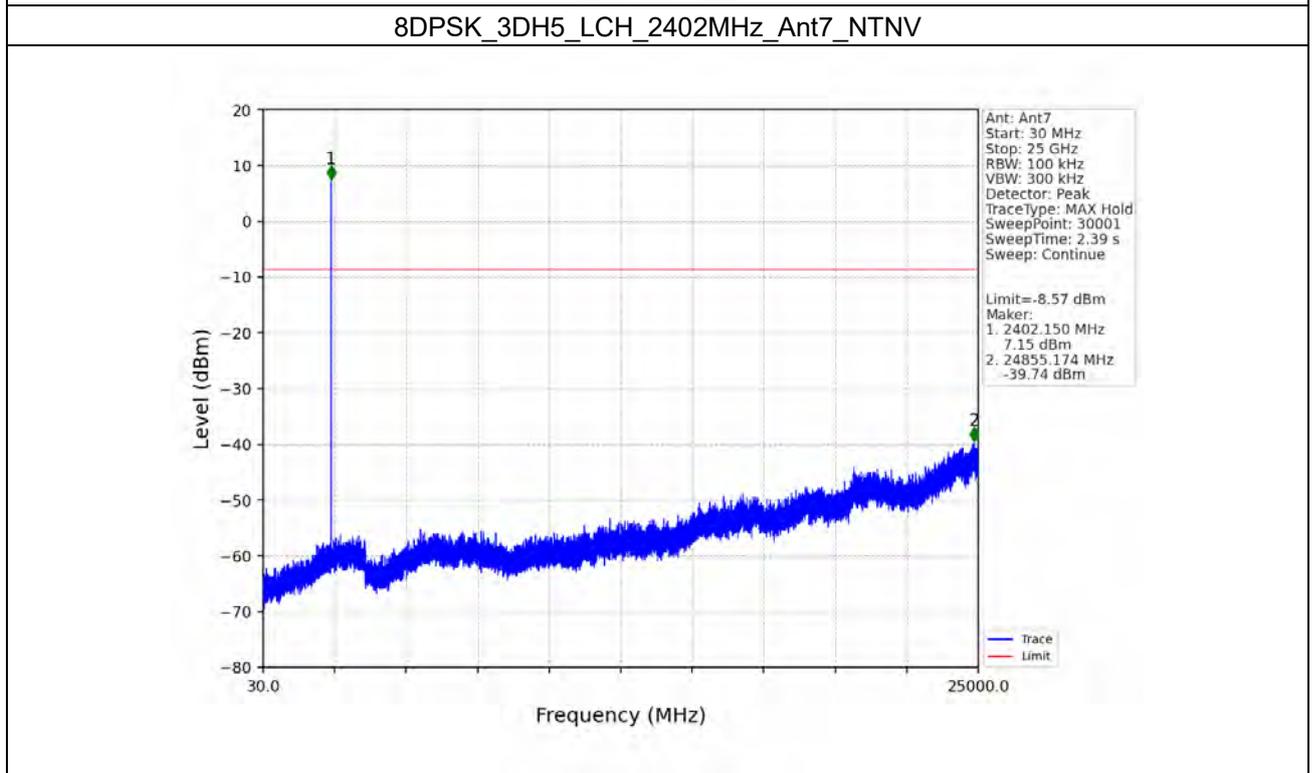
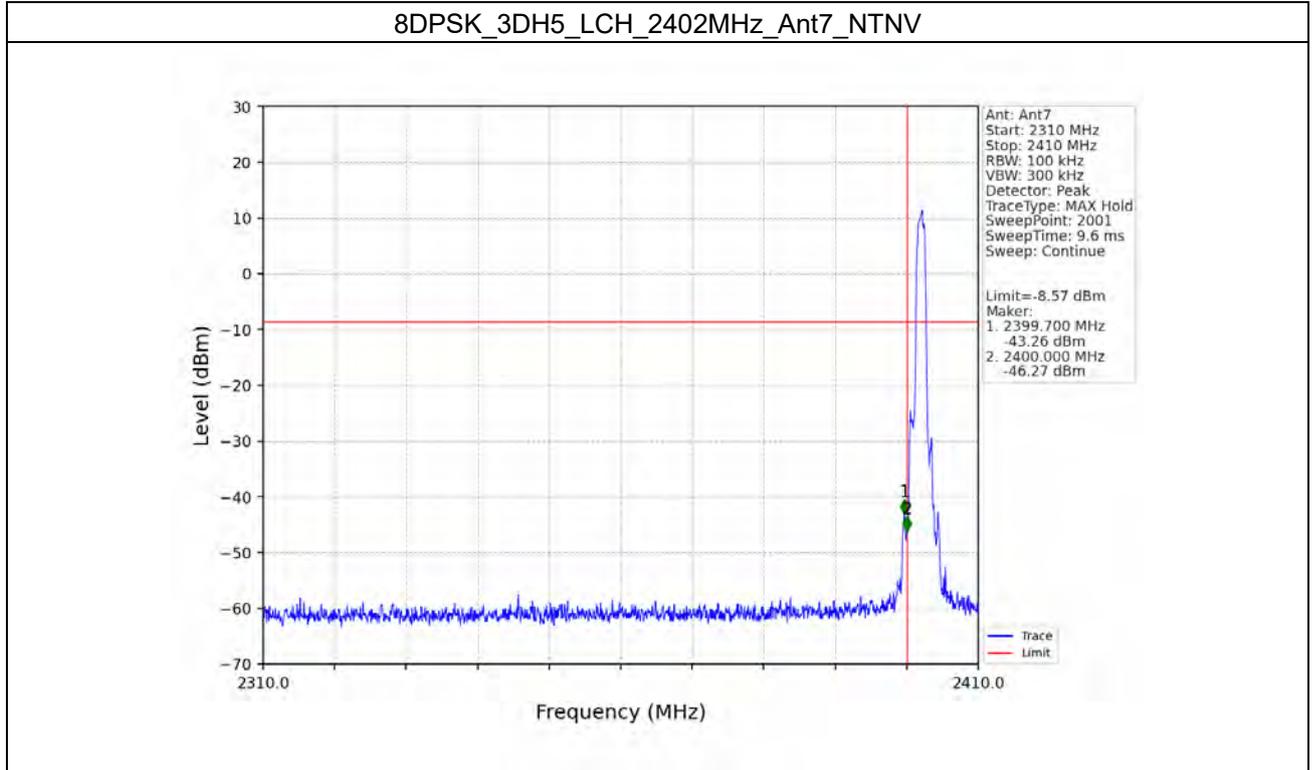


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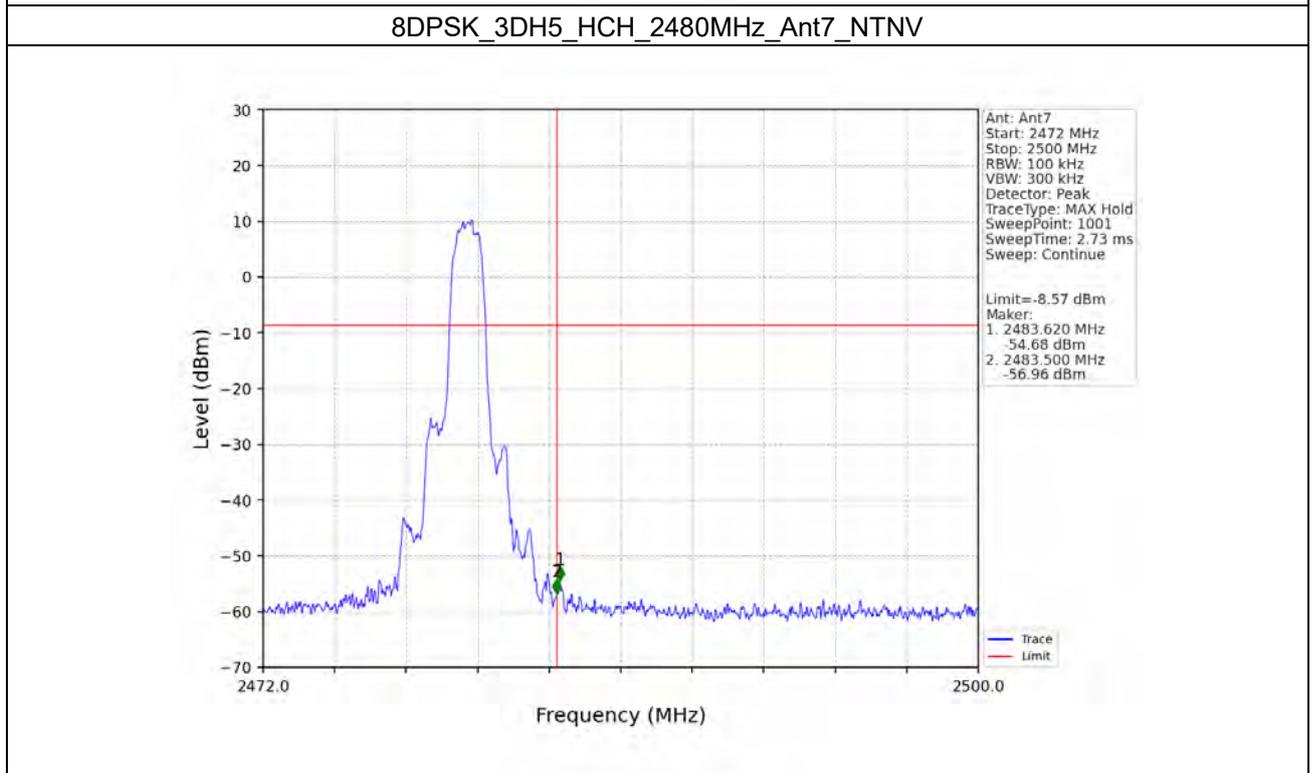
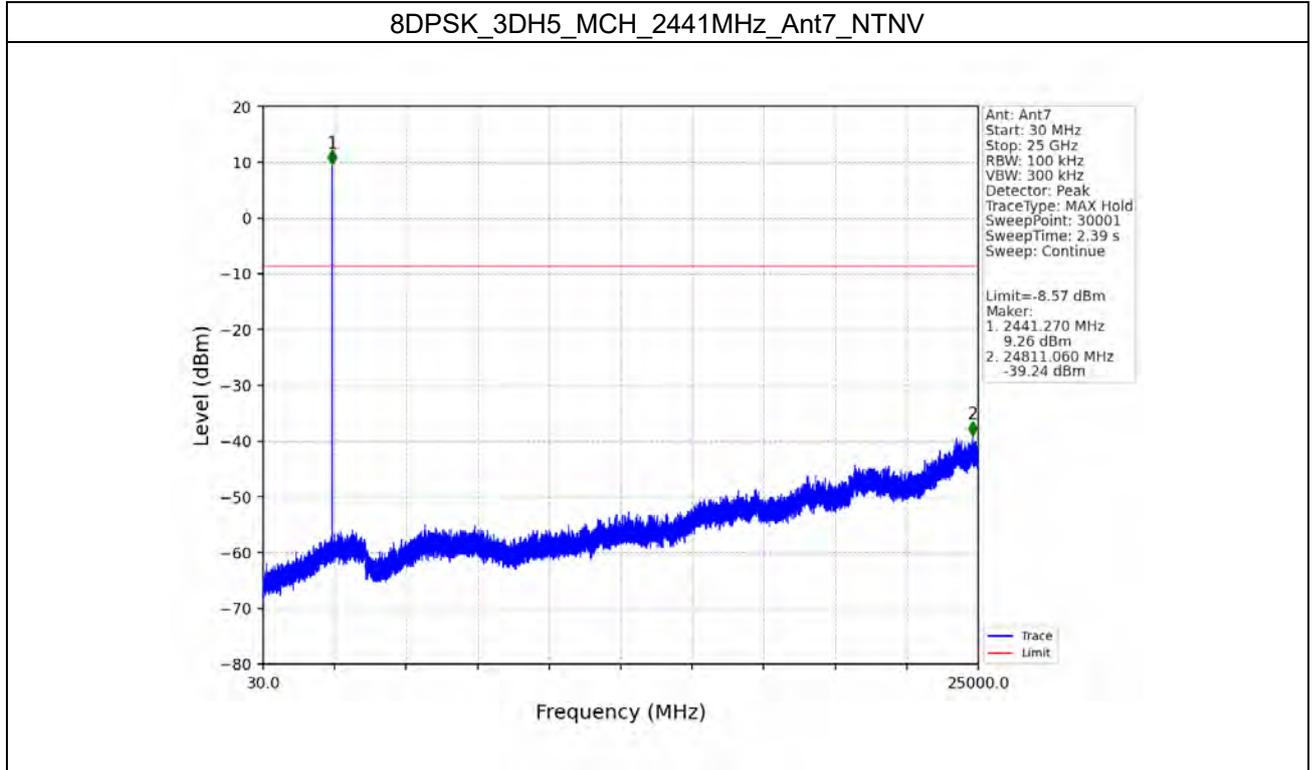
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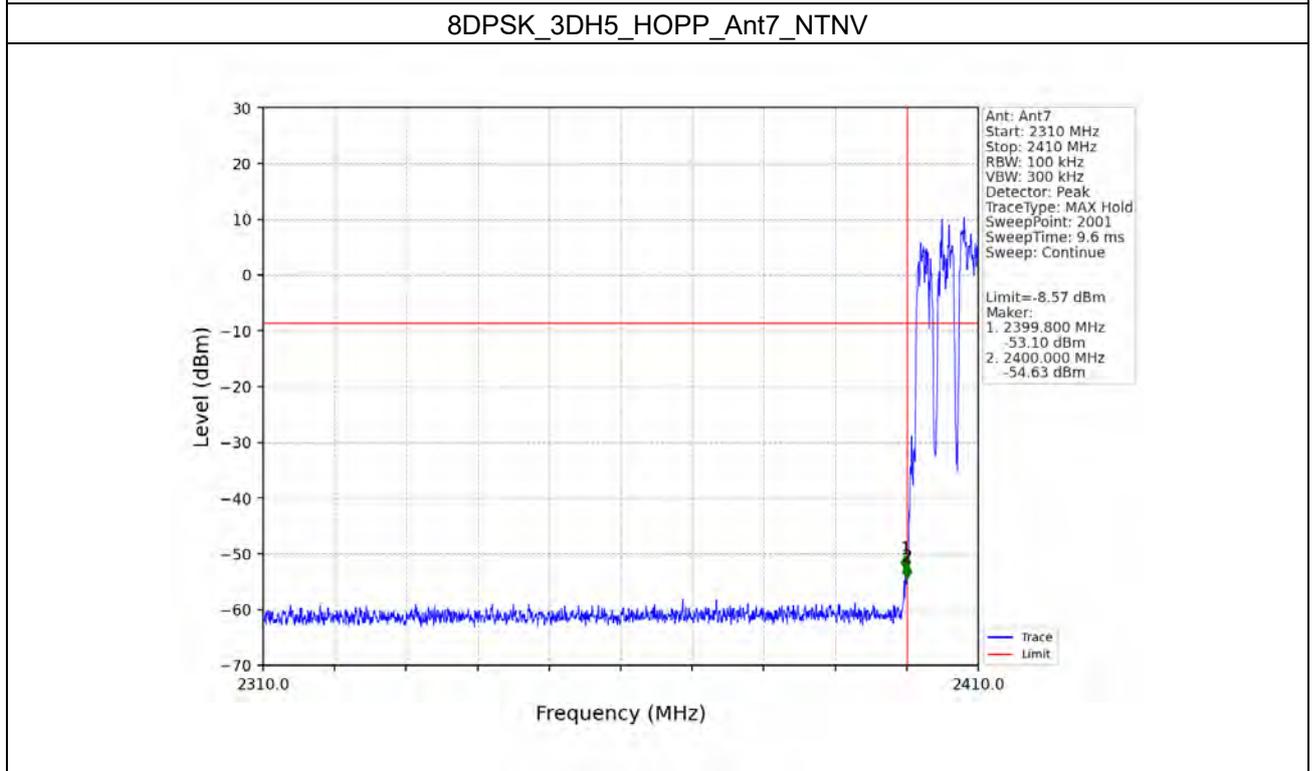
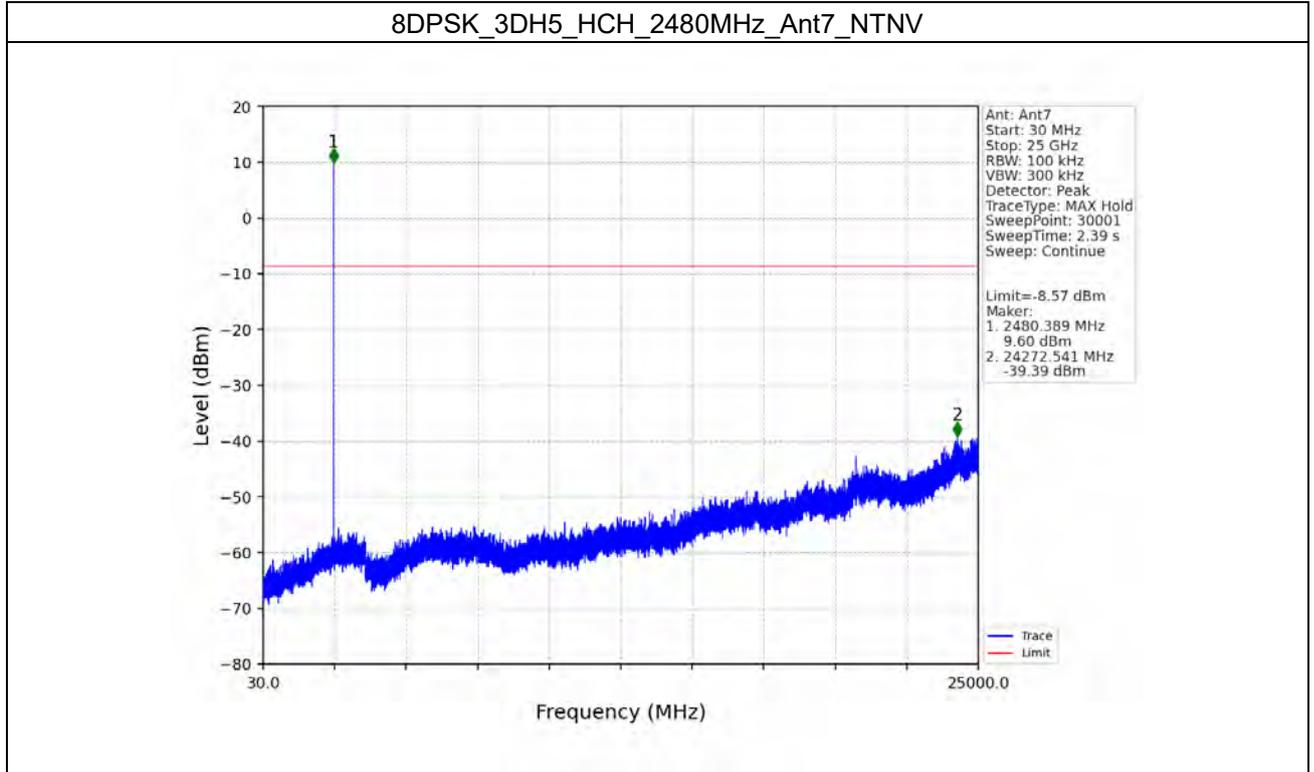
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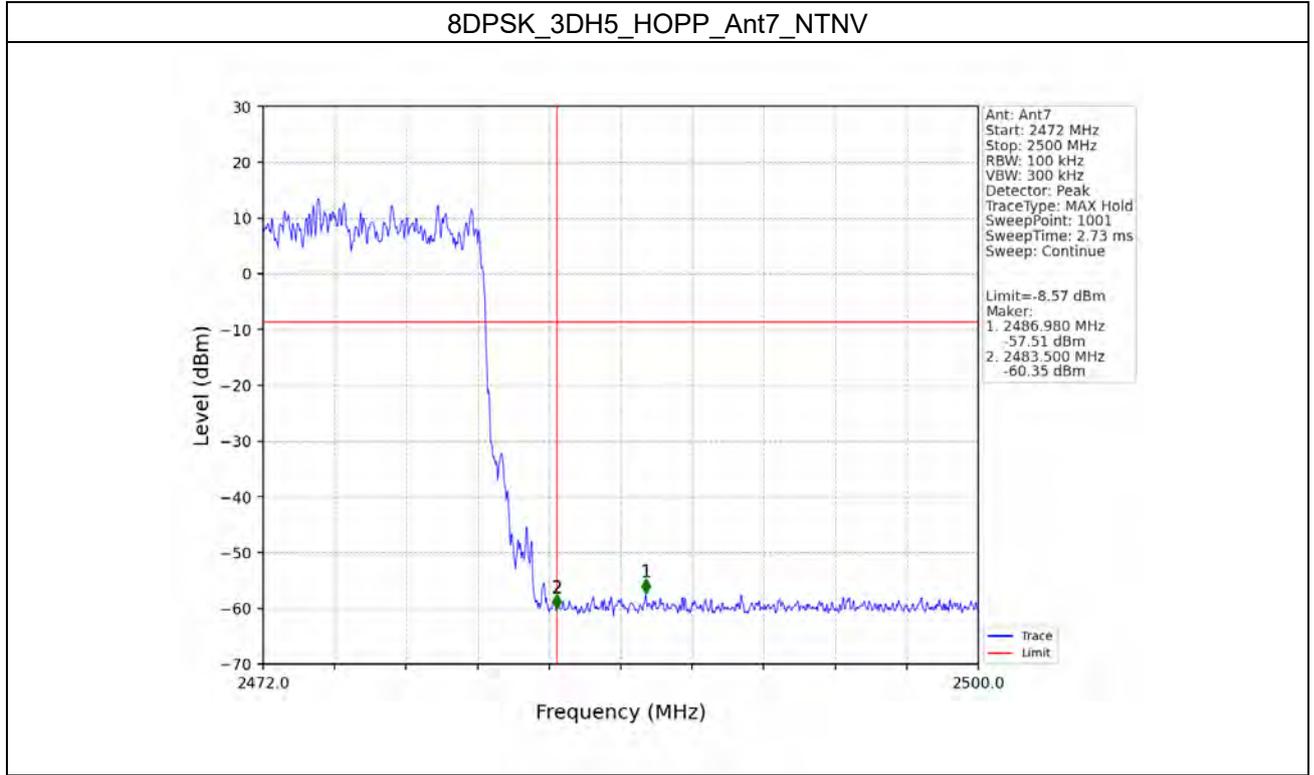


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7. Bandwidth

7.1 Test Result

7.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	16	0.845	/	Pass
		2441	DH5	16	0.848	/	Pass
		2480	DH5	16	0.846	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	16	1.181	/	Pass
		2441	2DH5	16	1.179	/	Pass
		2480	2DH5	16	1.184	/	Pass
8DPSK	SISO	2402	3DH5	16	1.184	/	Pass
		2441	3DH5	16	1.184	/	Pass
		2480	3DH5	16	1.183	/	Pass

7.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	16	0.956	/	Pass
		2441	DH5	16	0.956	/	Pass
		2480	DH5	16	0.955	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	16	1.329	/	Pass
		2441	2DH5	16	1.328	/	Pass
		2480	2DH5	16	1.327	/	Pass
8DPSK	SISO	2402	3DH5	16	1.316	/	Pass
		2441	3DH5	16	1.316	/	Pass
		2480	3DH5	16	1.314	/	Pass

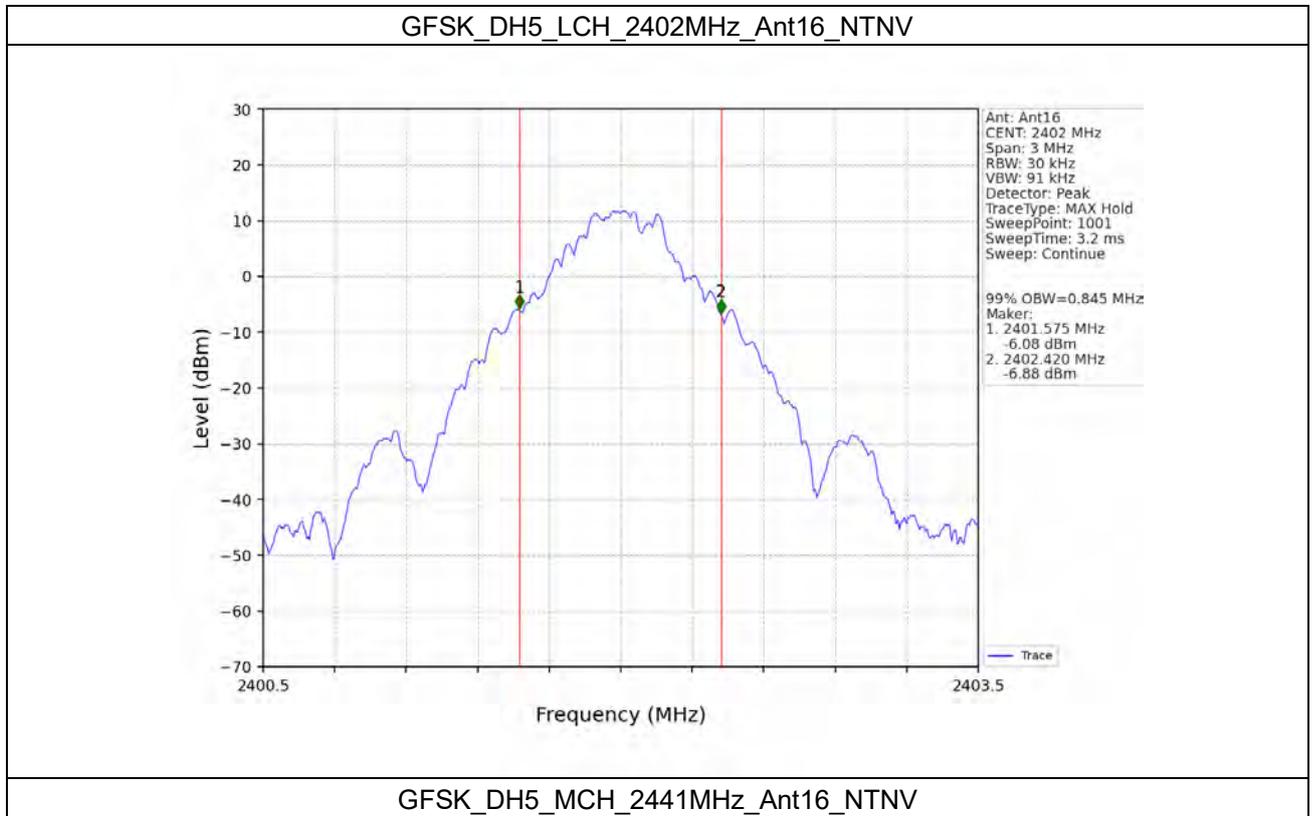


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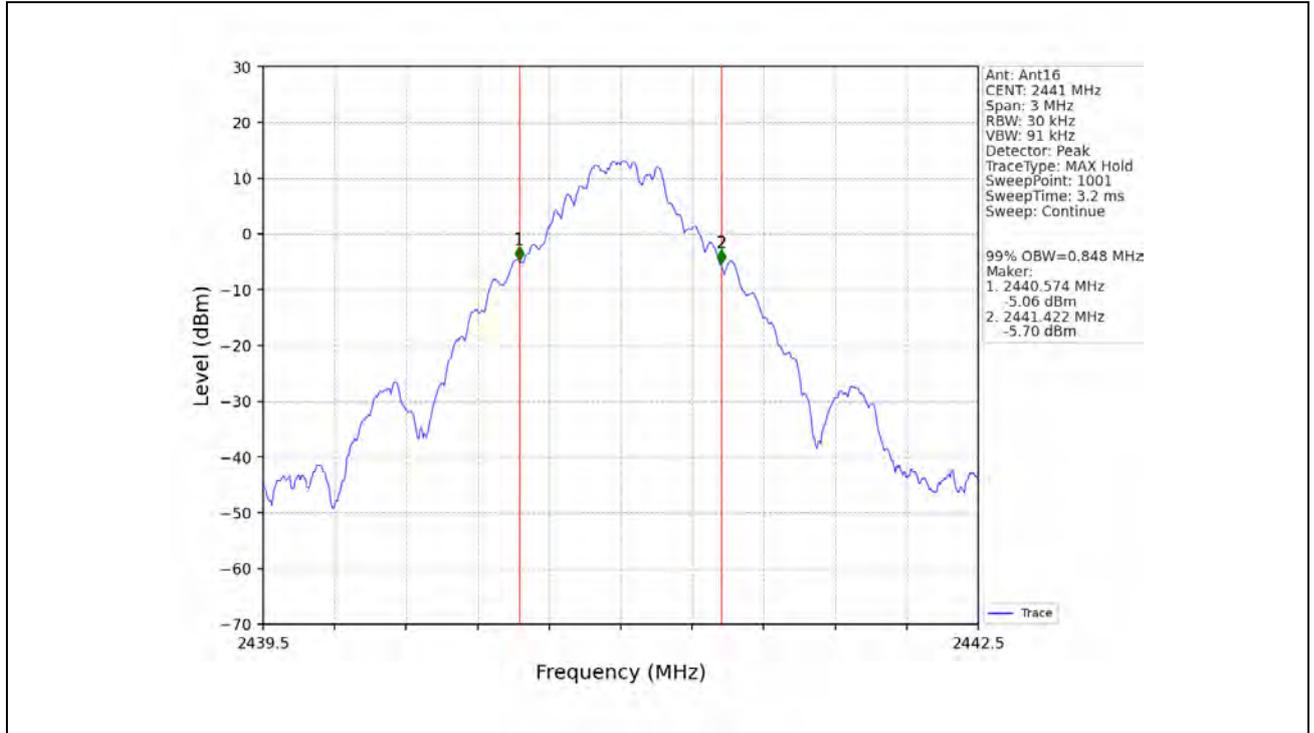
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7.2 Test Graph

7.2.1 OBW

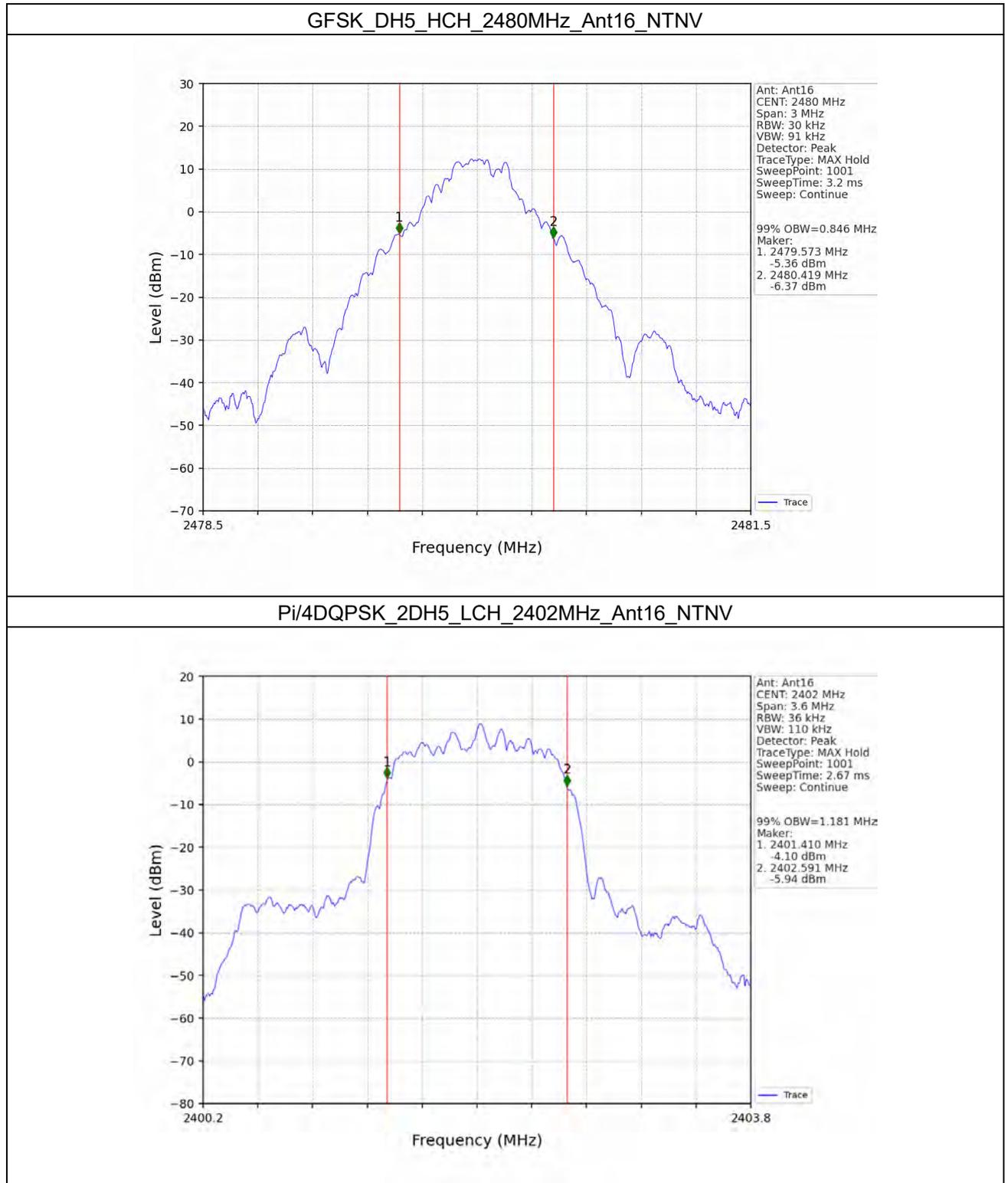


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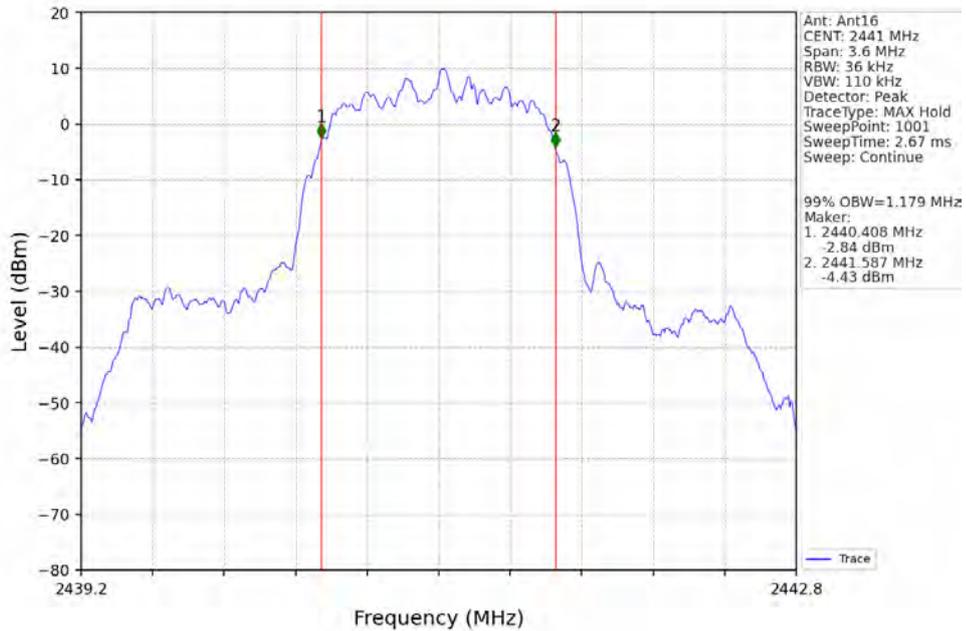
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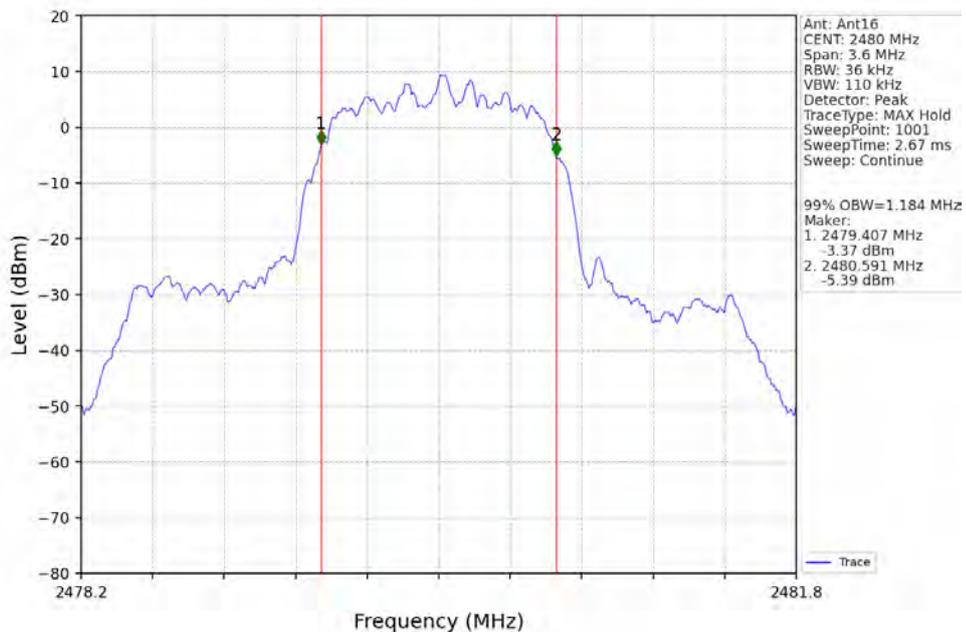


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant16_NTNV



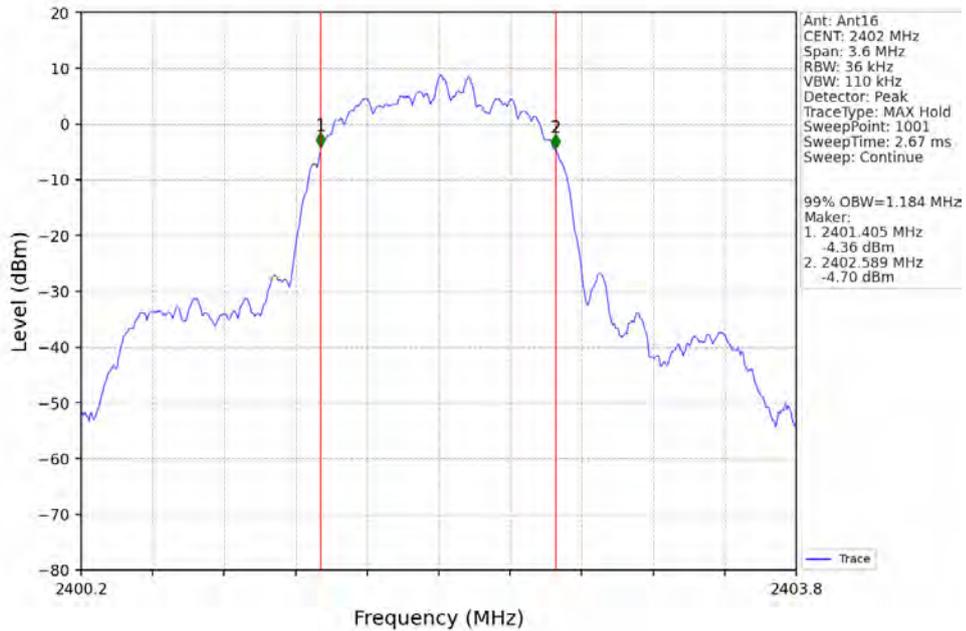
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant16_NTNV



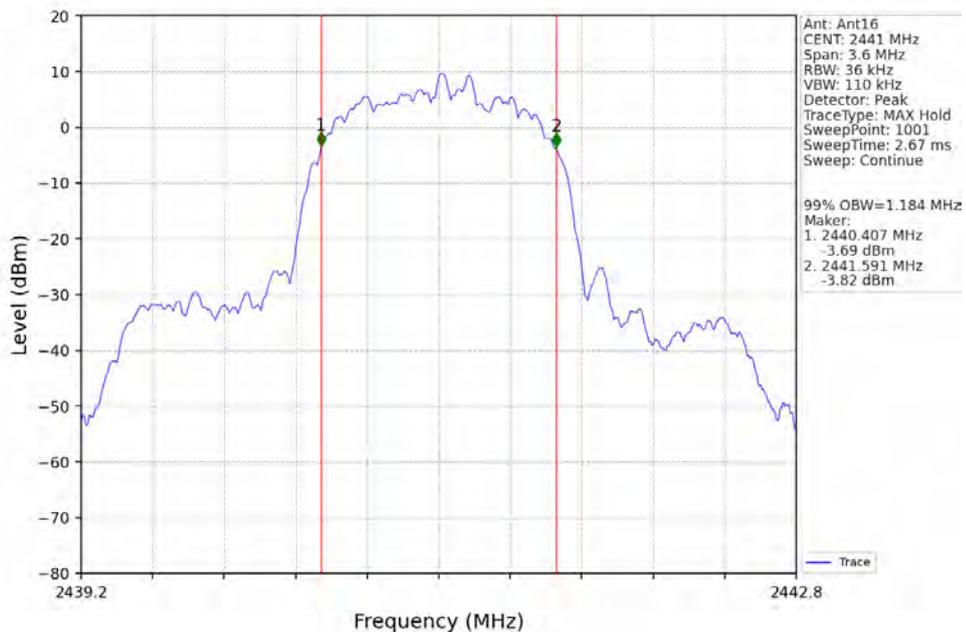
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8DPSK_3DH5_LCH_2402MHz_Ant16_NTNV

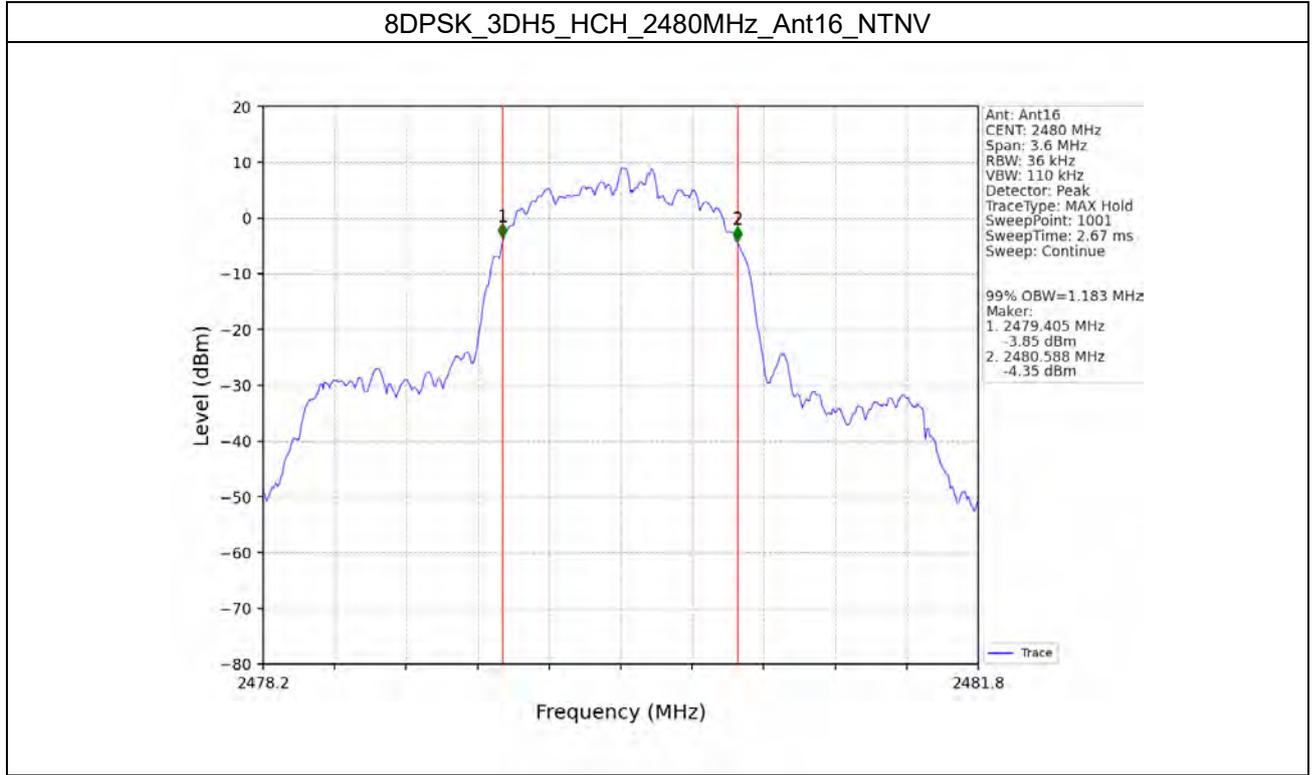


8DPSK_3DH5_MCH_2441MHz_Ant16_NTNV



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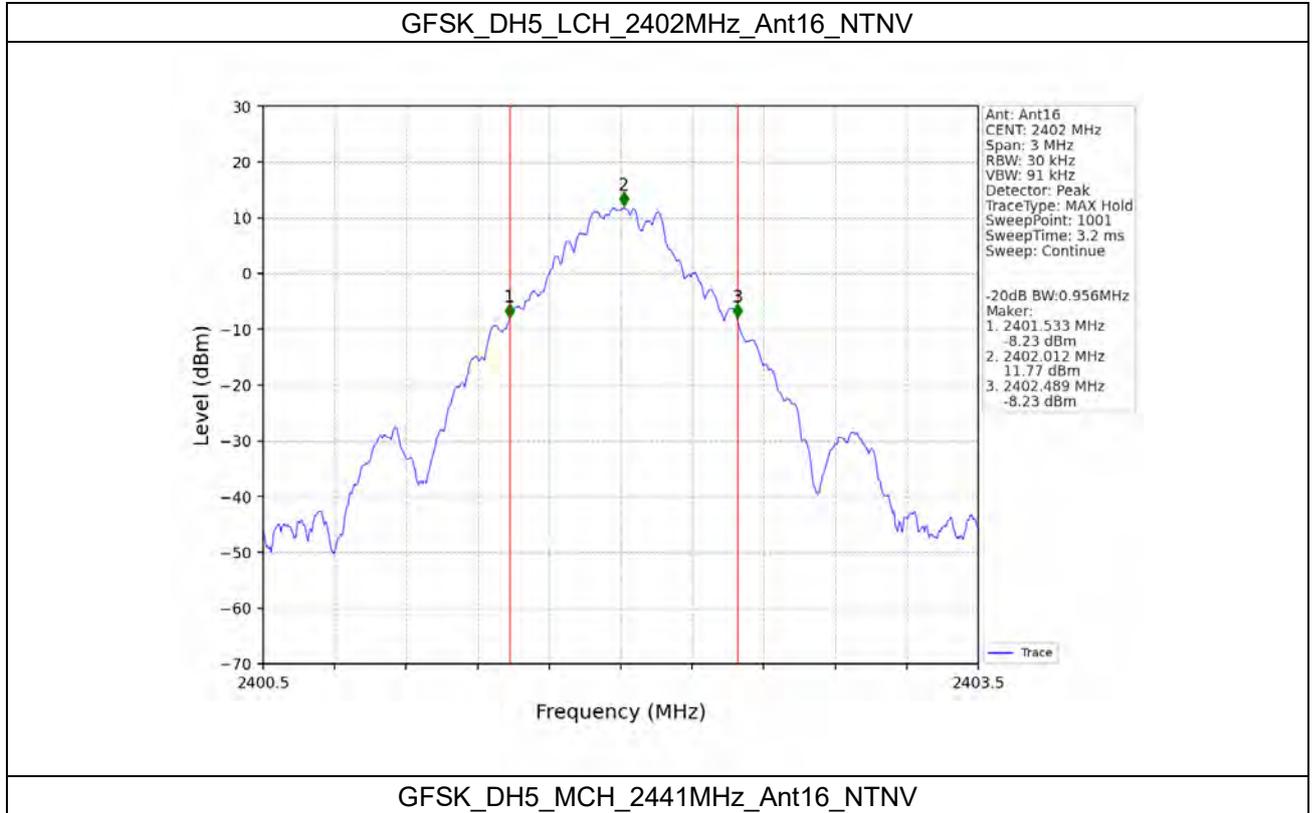
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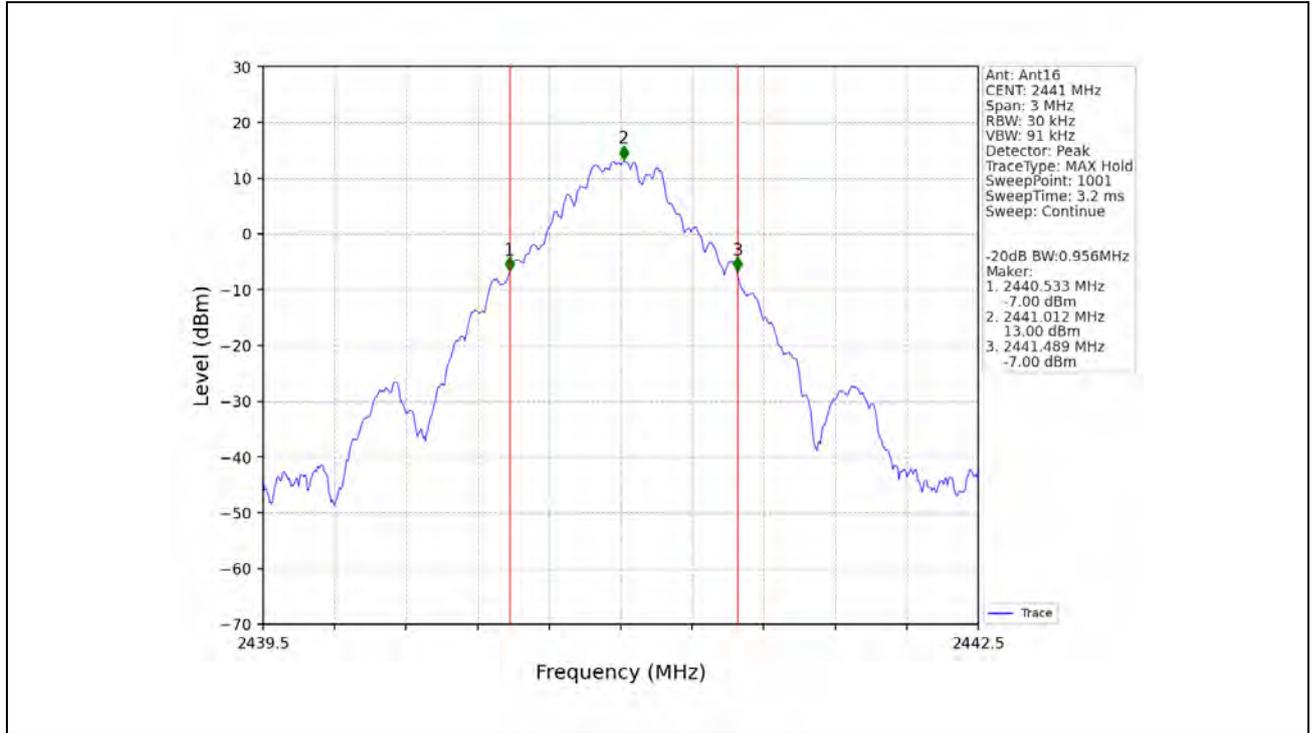
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7.2.2 20dB BW



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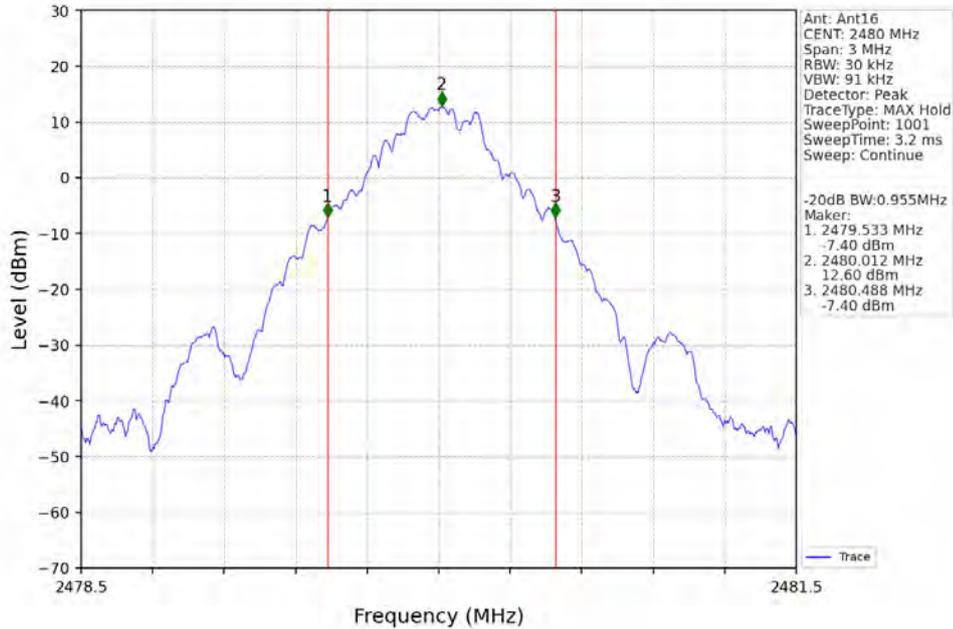


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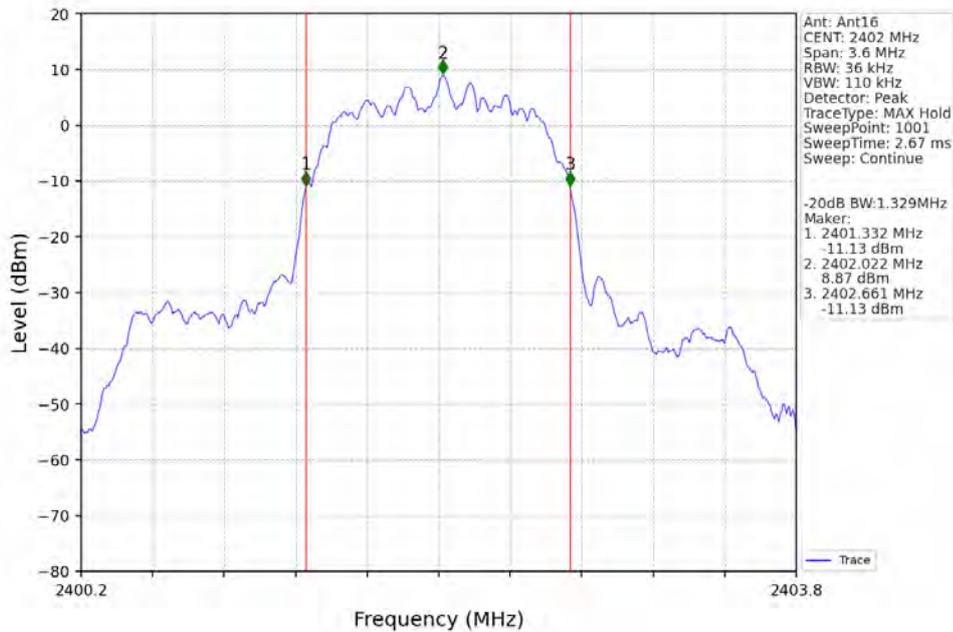
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GFSK_DH5_HCH_2480MHz_Ant16_NTNV

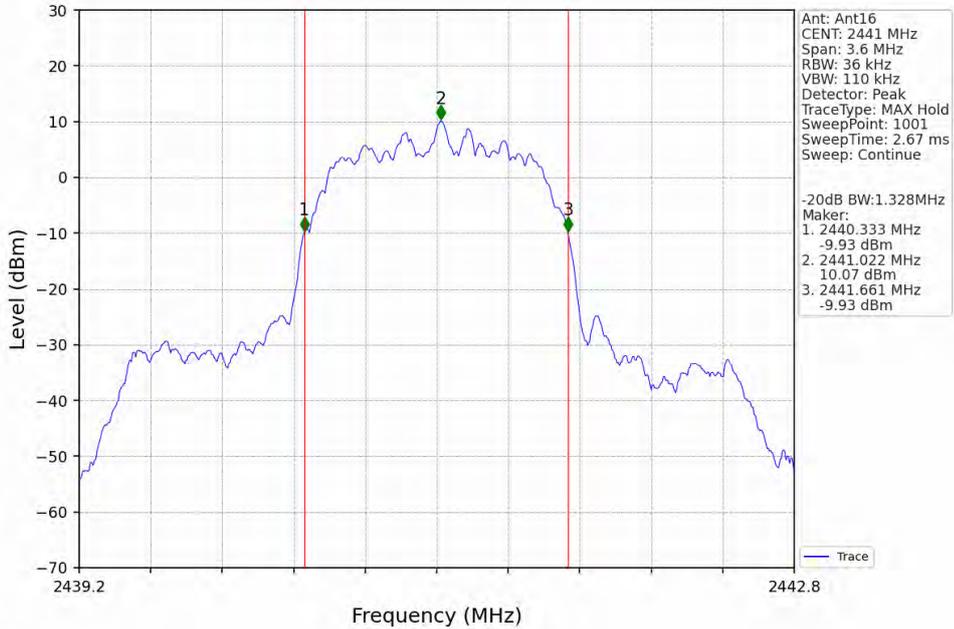


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant16_NTNV

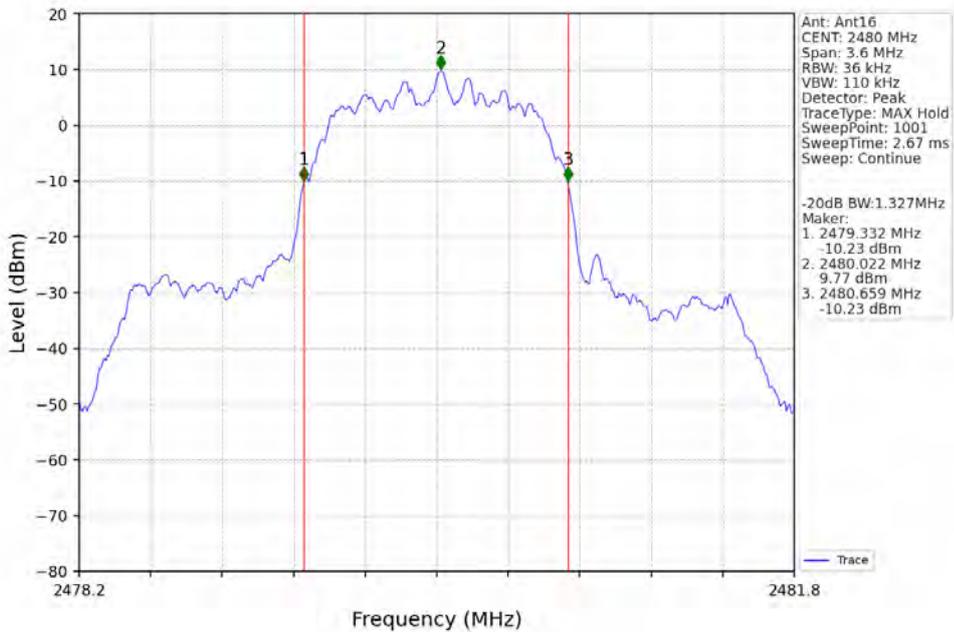


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant16_NTNV

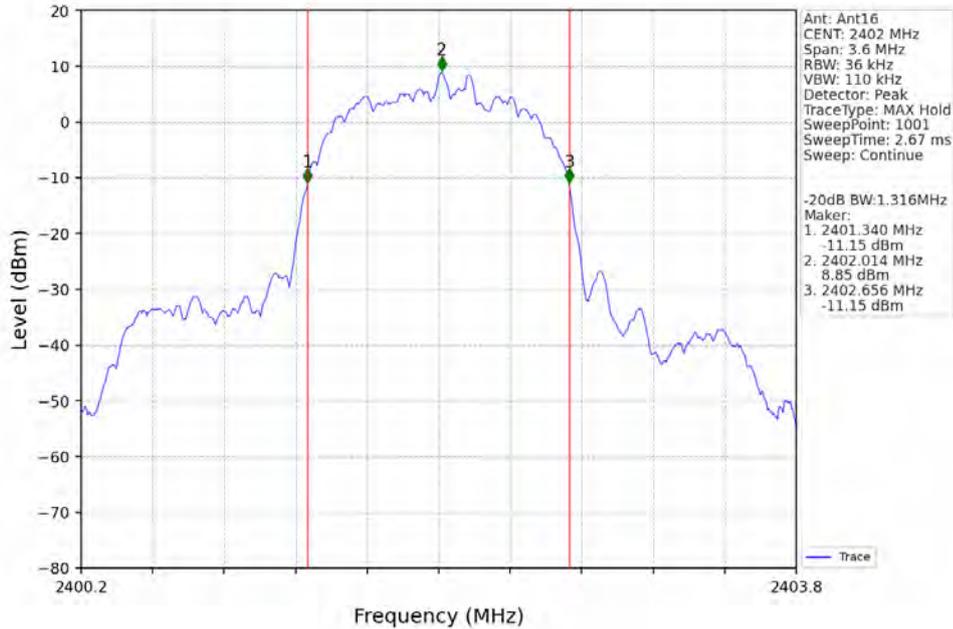


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant16_NTNV

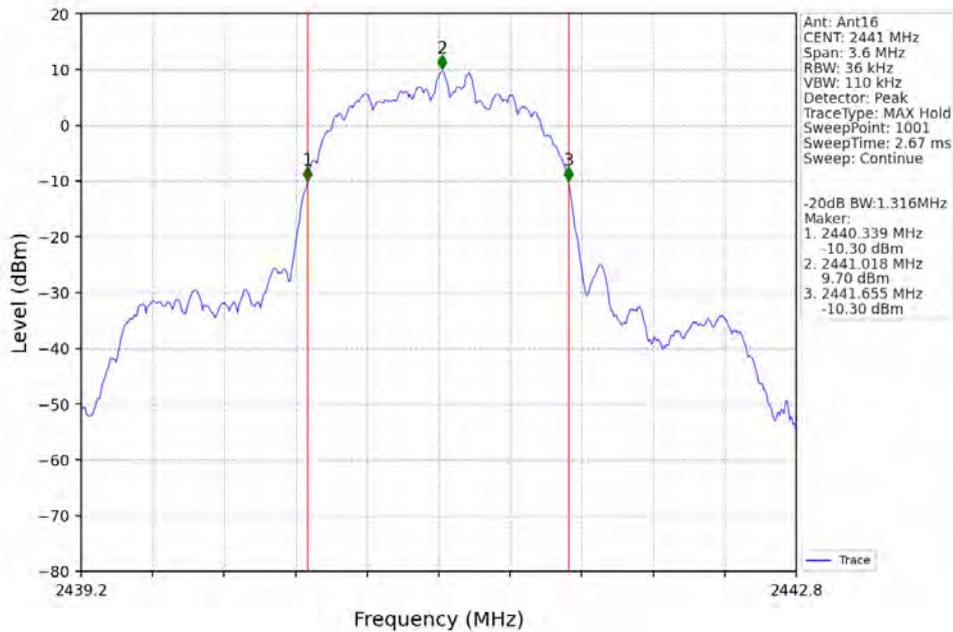


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8DPSK_3DH5_LCH_2402MHz_Ant16_NTNV

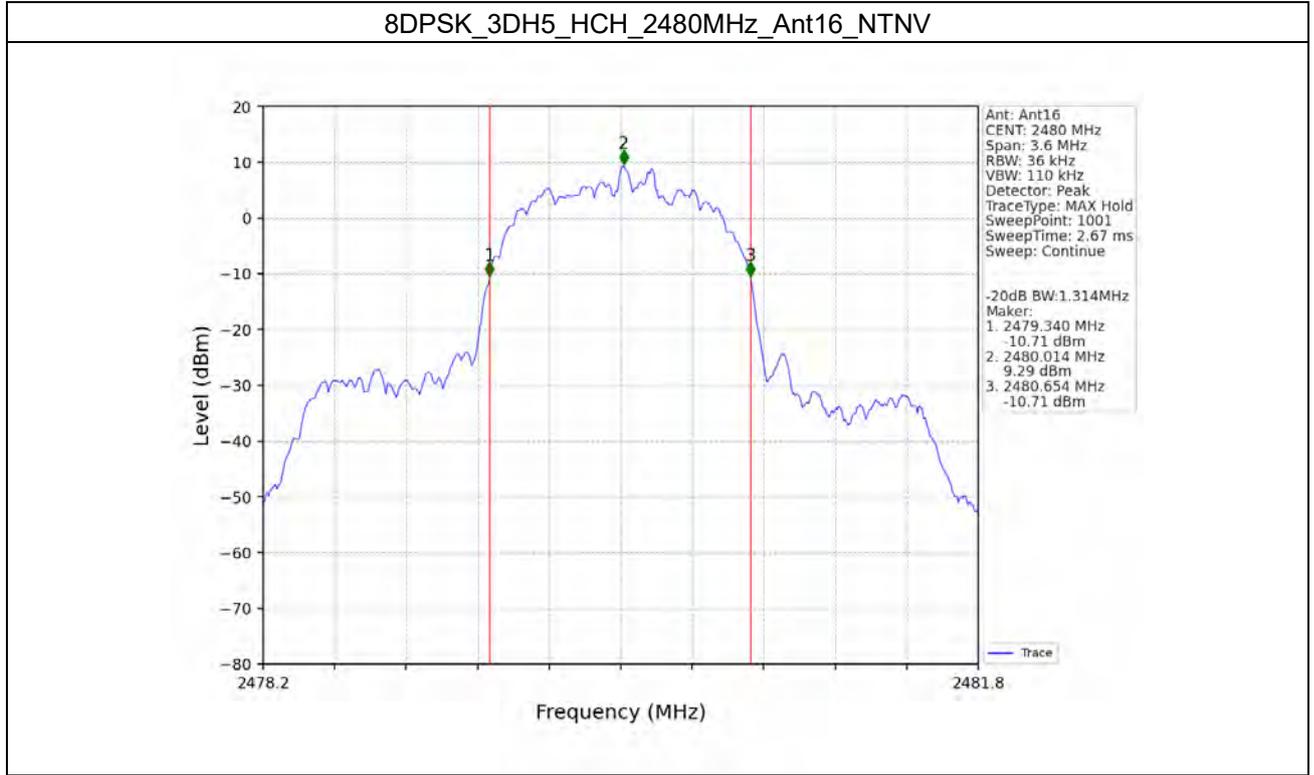


8DPSK_3DH5_MCH_2441MHz_Ant16_NTNV



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8. Maximum Conducted Output Power

8.1 Test Result

8.1.1 Power

Mode	TX Type	Frequency (MHz)	Packet Type	Maximum Peak Conducted Output Power (dBm)		Verdict
				ANT16	Limit	
GFSK	SISO	2402	DH5	14.41	<=30	Pass
		2441	DH5	15.42	<=30	Pass
		2480	DH5	14.99	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	13.59	<=20.97	Pass
		2441	2DH5	14.87	<=20.97	Pass
		2480	2DH5	14.71	<=20.97	Pass
8DPSK	SISO	2402	3DH5	14.17	<=20.97	Pass
		2441	3DH5	15.13	<=20.97	Pass
		2480	3DH5	14.90	<=20.97	Pass

9. Carrier Frequency Separation

9.1 Test Result

9.1.1 Ant16

Ant16							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	0.976	0.956	>=0.956	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	1.001	1.329	>=0.886	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.316	>=0.877	Pass

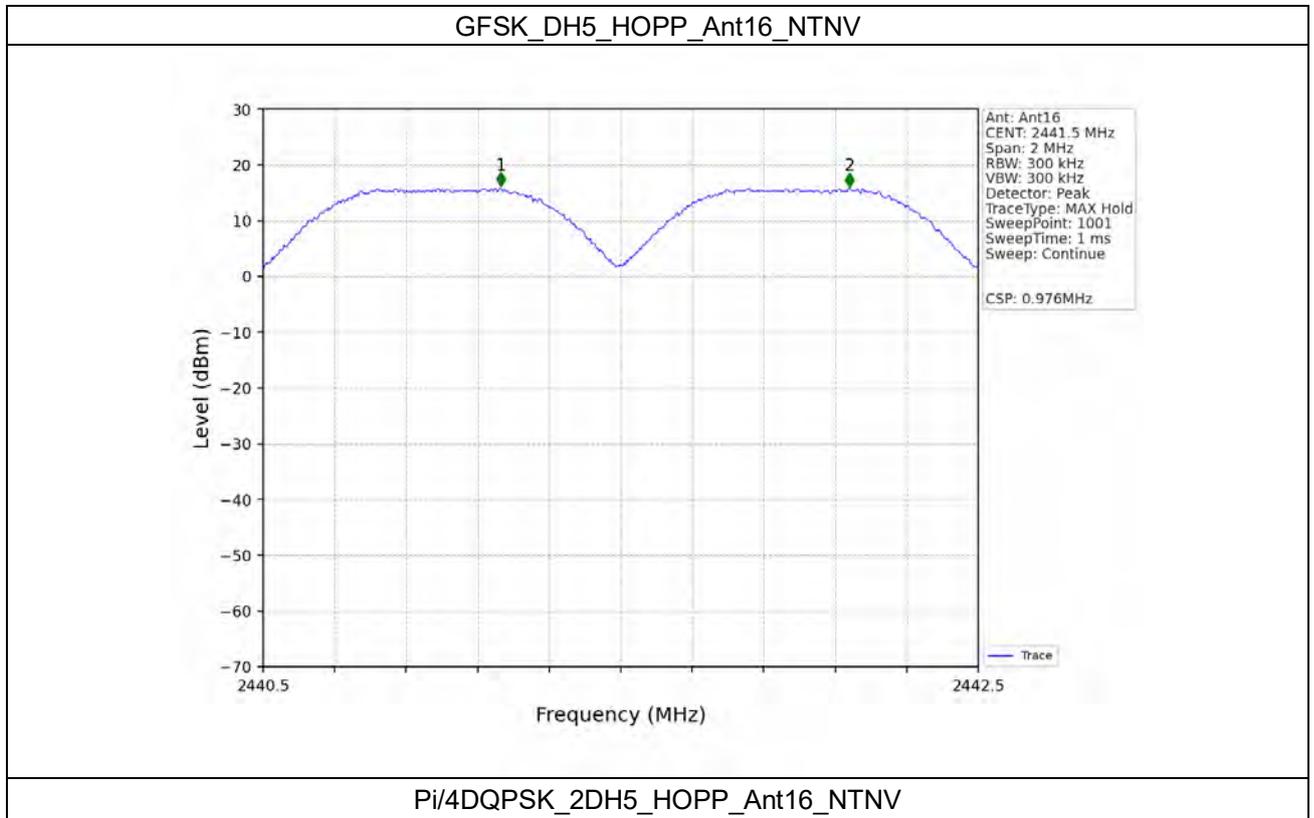


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9.2 Test Graph

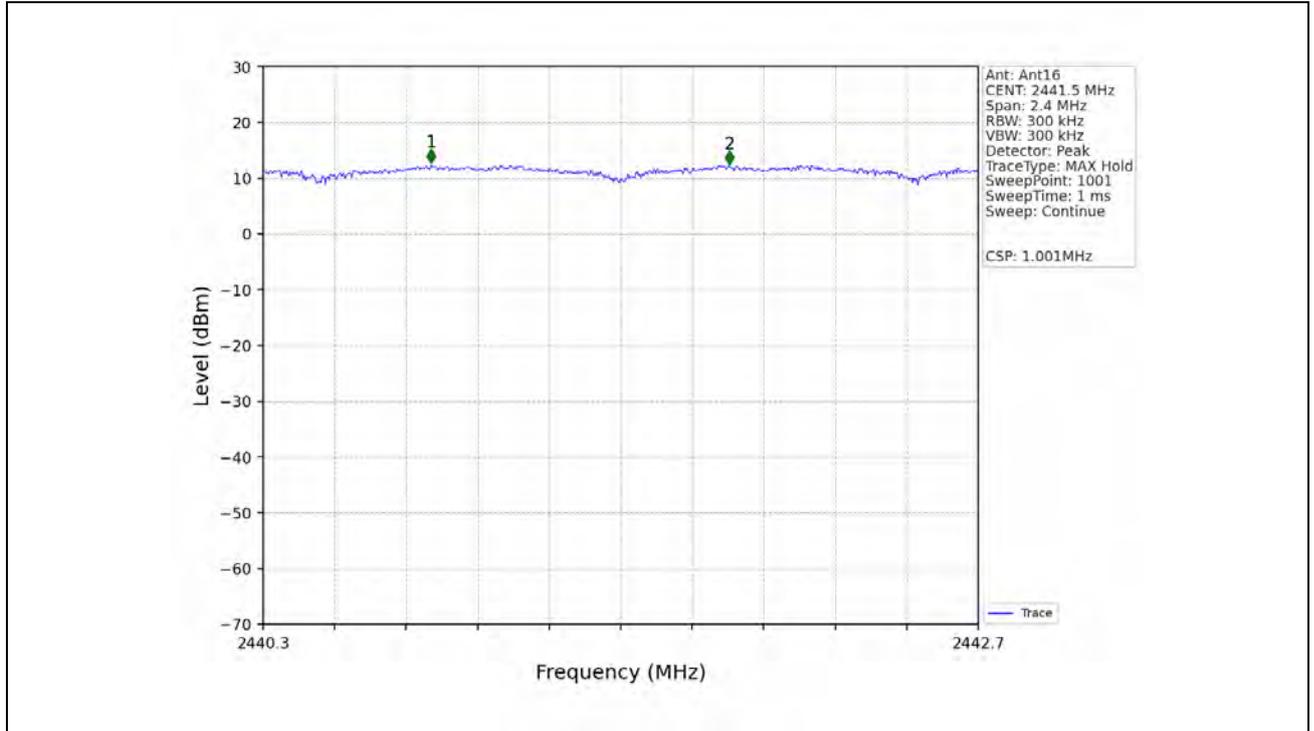
9.2.1 Ant16



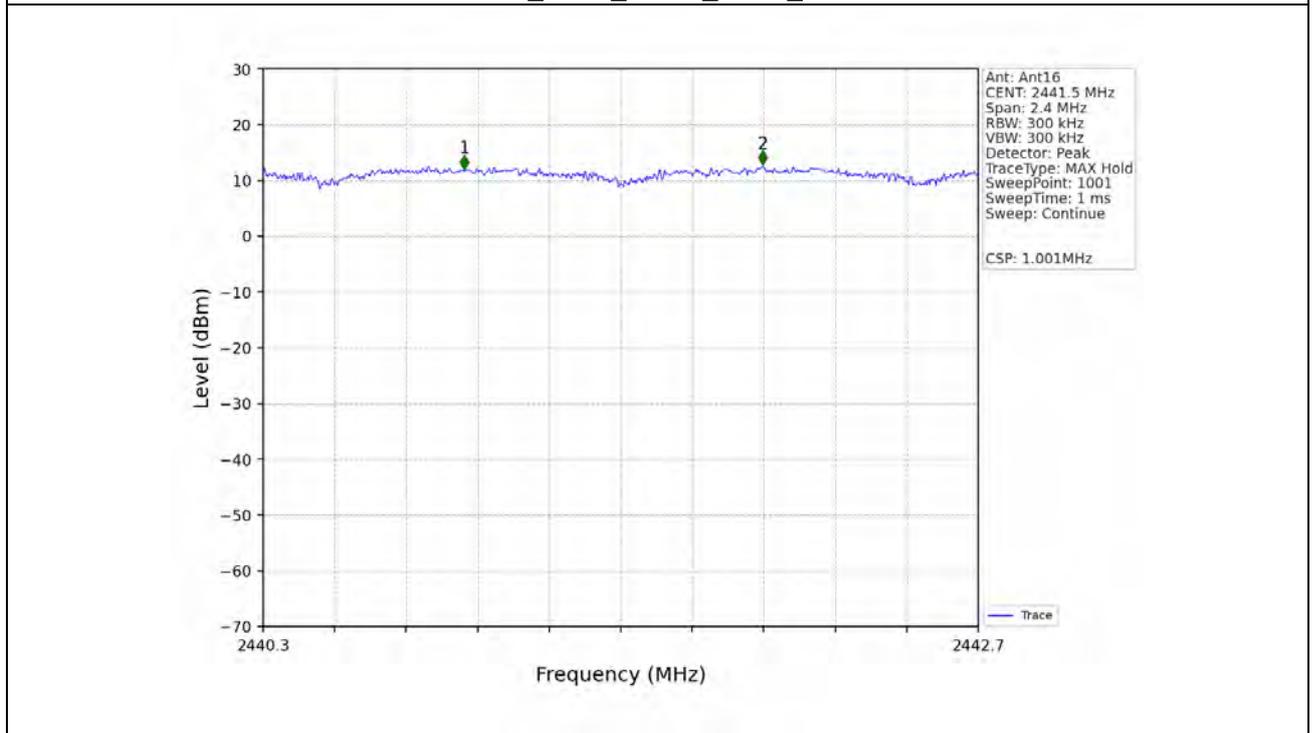
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8DPSK_3DH5_HOPP_Ant16_NTNV



10. Number of Hopping Frequencies

10.1 Test Result

10.1.1 HoppNum

Mode	TX Type	Frequency (MHz)	Packet Type	Num of Hopping Frequencies		Verdict
				ANT16	Limit	
GFSK	SISO	HOPP	DH5	79	>=15	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	79	>=15	Pass
8DPSK	SISO	HOPP	3DH5	79	>=15	Pass

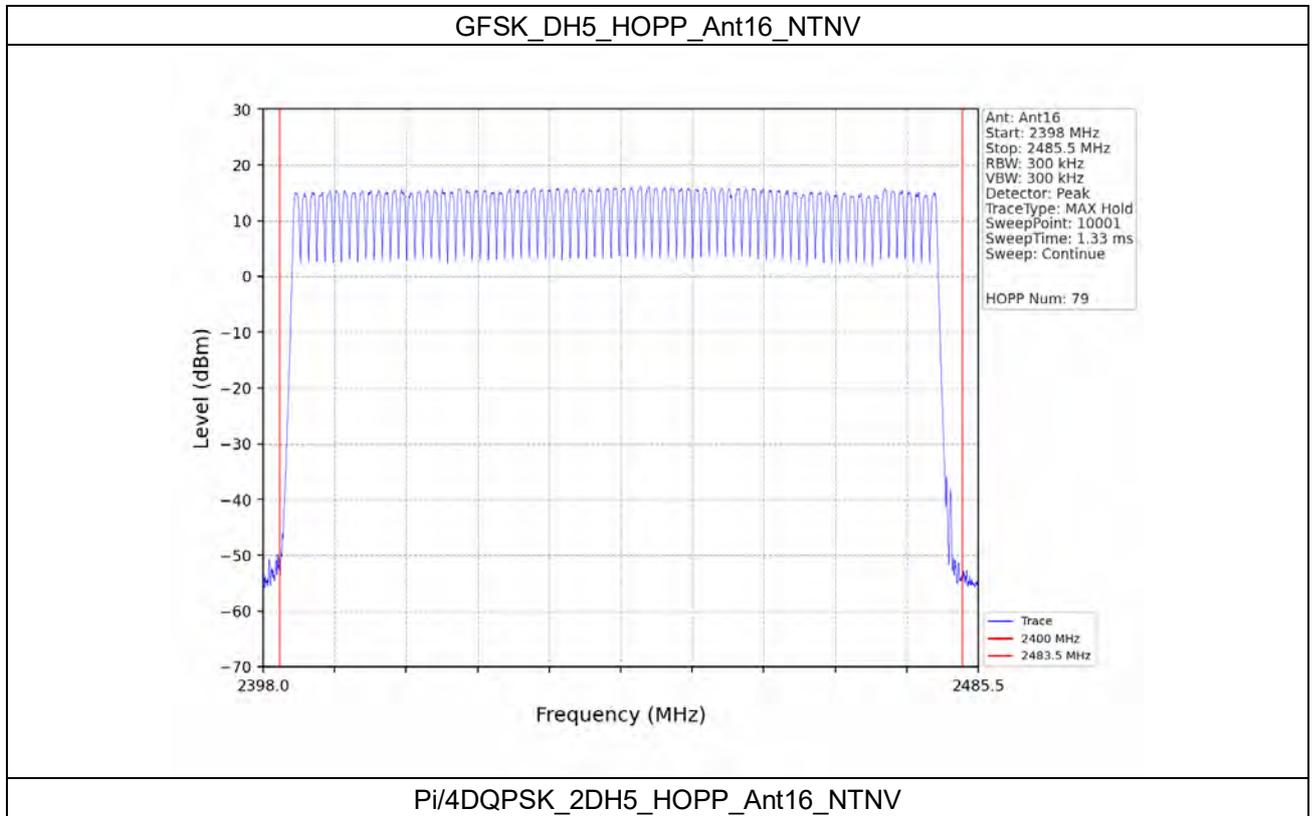


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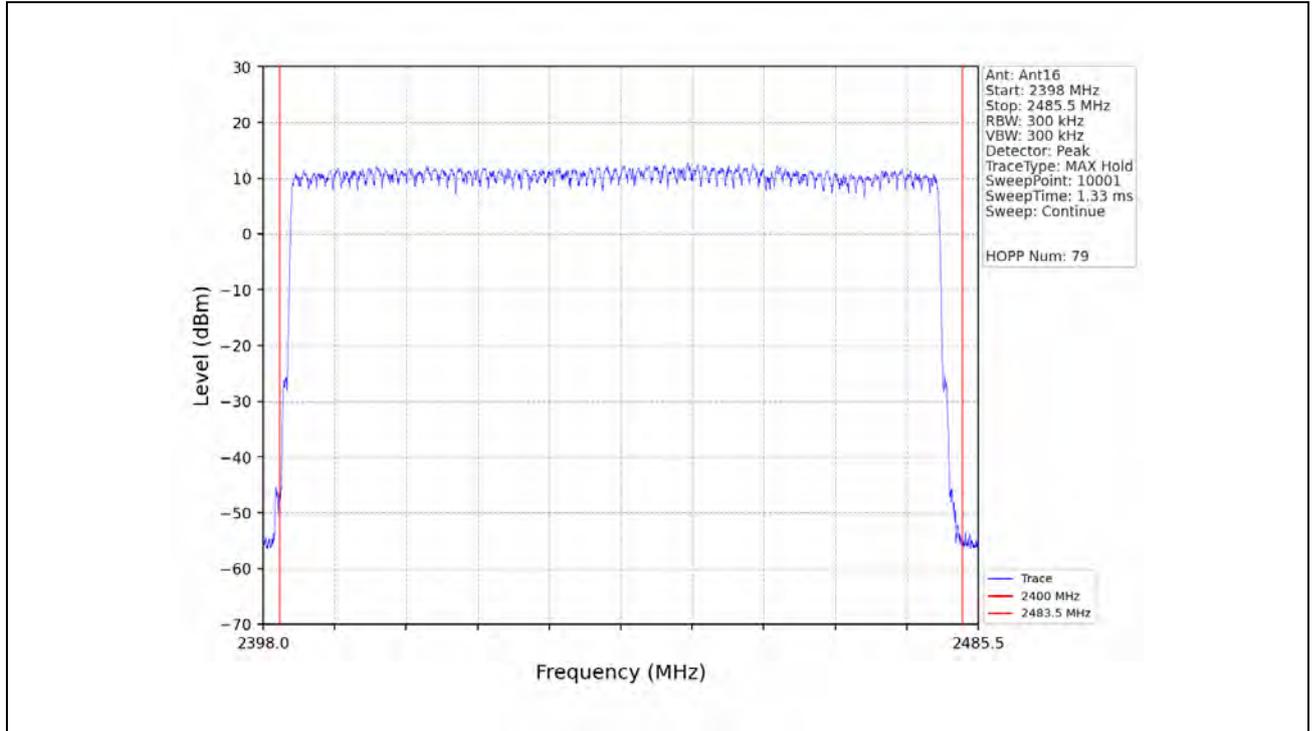
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10.2 Test Graph

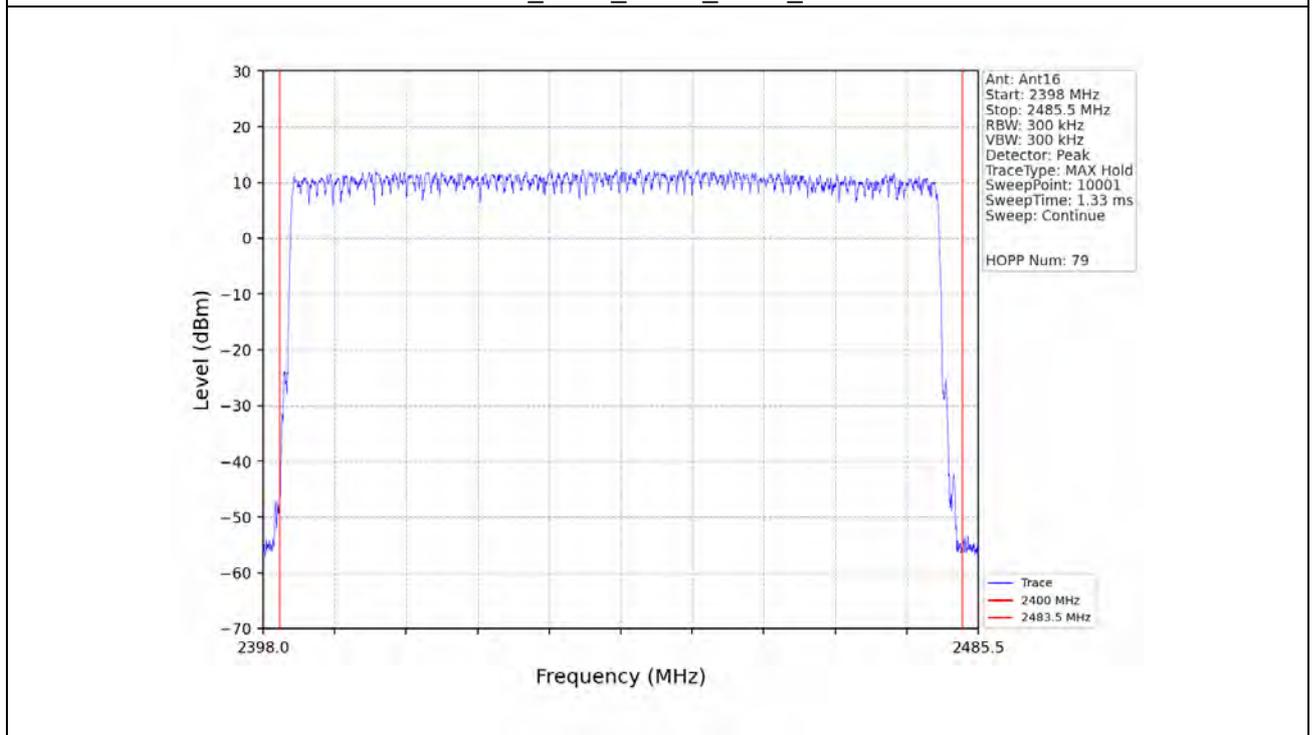
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8DPSK_3DH5_HOPP_Ant16_NTNV



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11. Time of Occupancy (Dwell Time)

11.1 Test Result

11.1.1 Ant16

Ant16									
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	0.394	31.600	320	126.080	<=400	Pass
			DH3	1.650	31.600	168	277.200	<=400	Pass
			DH5	2.896	31.600	102	295.392	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.392	31.600	320	125.440	<=400	Pass
			2DH3	1.650	31.600	168	277.200	<=400	Pass
			2DH5	2.896	31.600	103	298.288	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.398	31.600	319	126.962	<=400	Pass
			3DH3	1.642	31.600	152	249.584	<=400	Pass
			3DH5	2.900	31.600	106	307.400	<=400	Pass

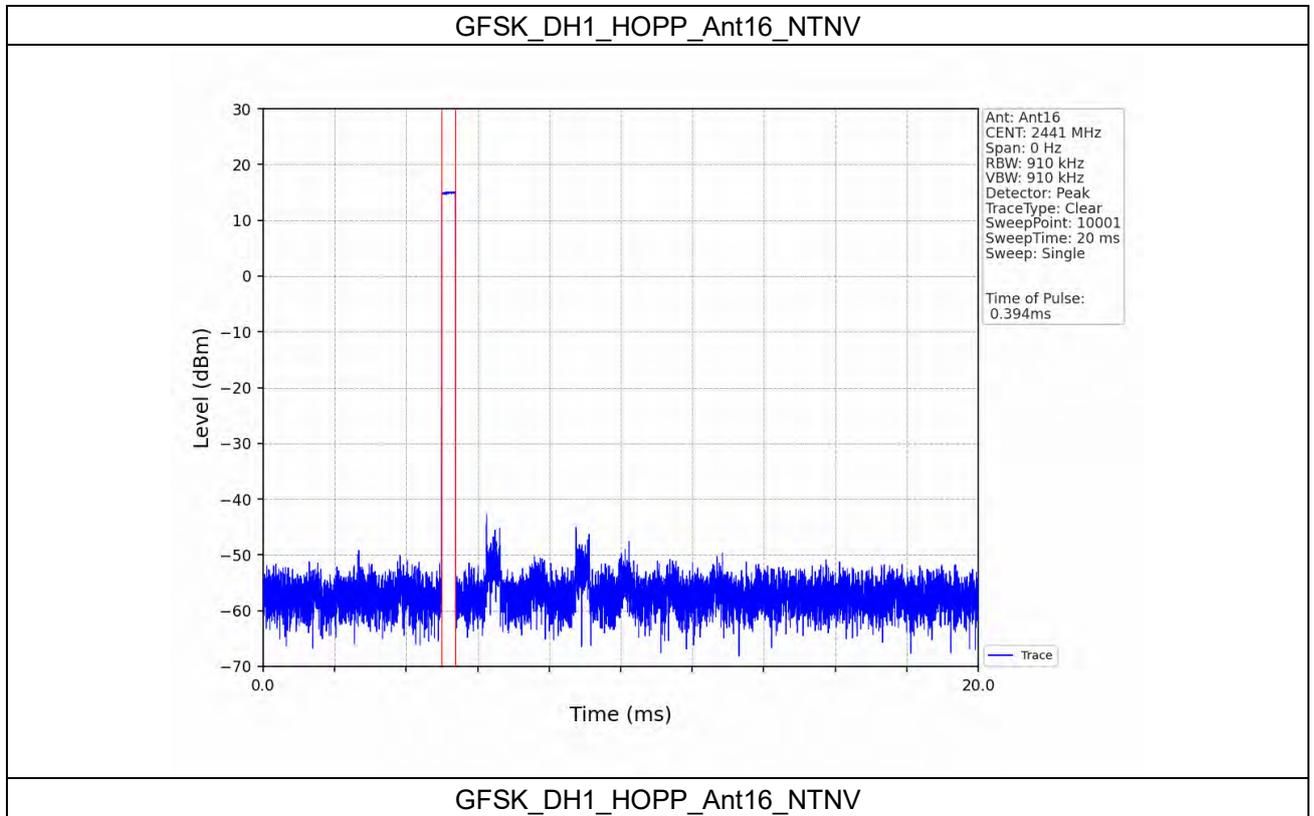


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11.2 Test Graph

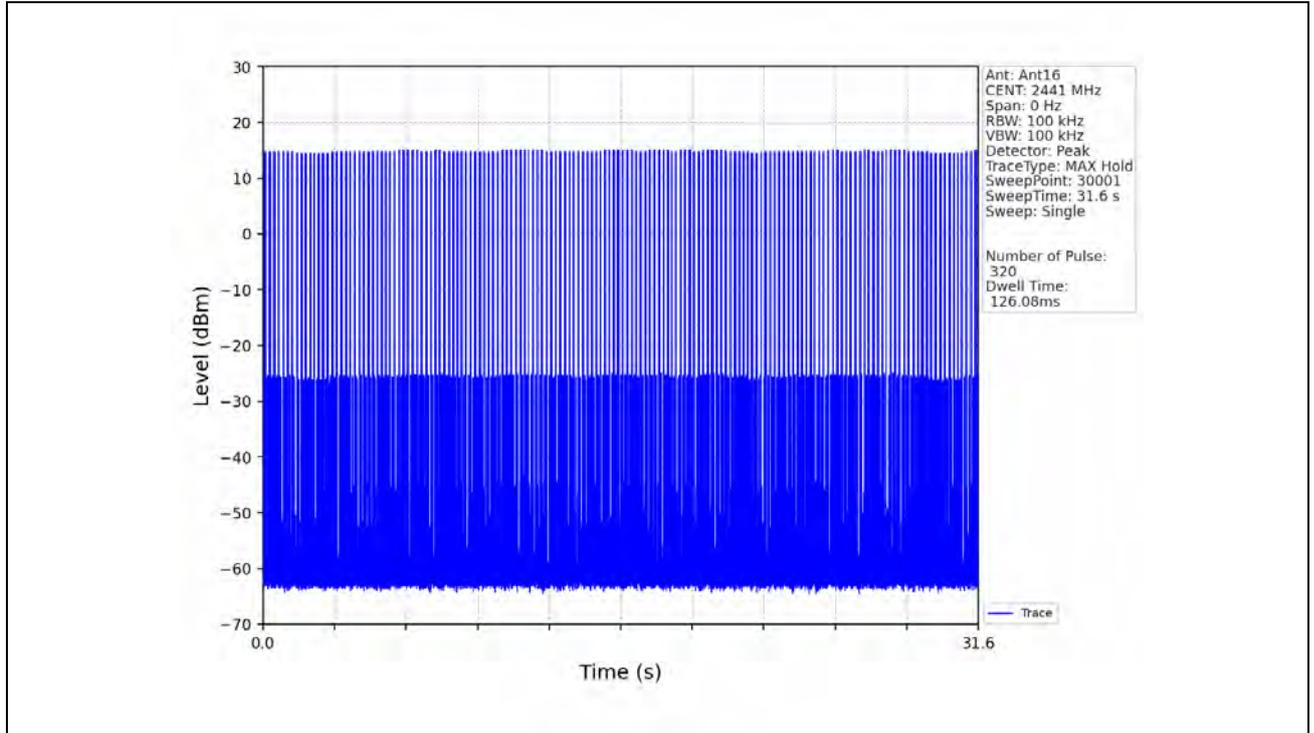
11.2.1 Ant16



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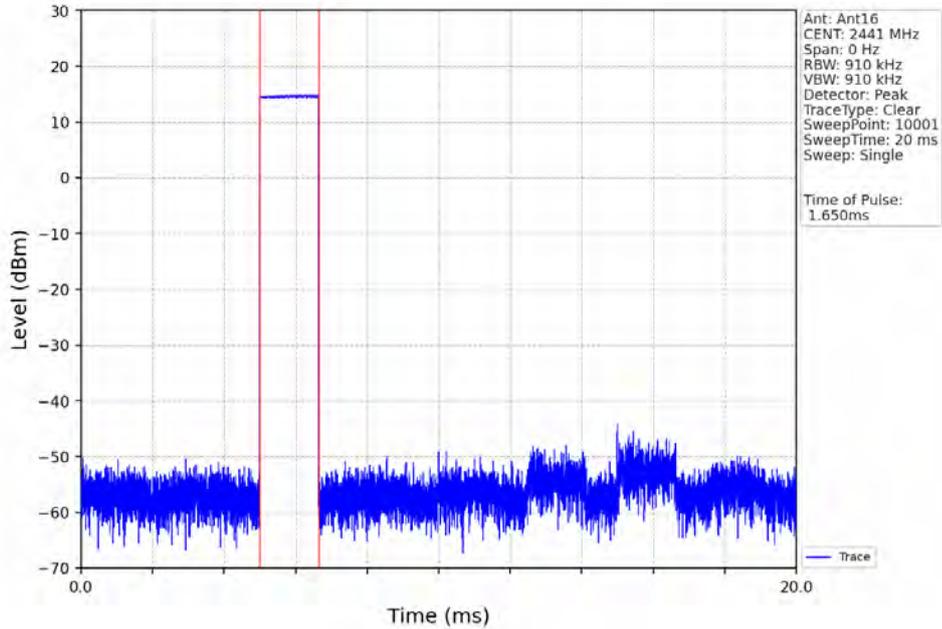
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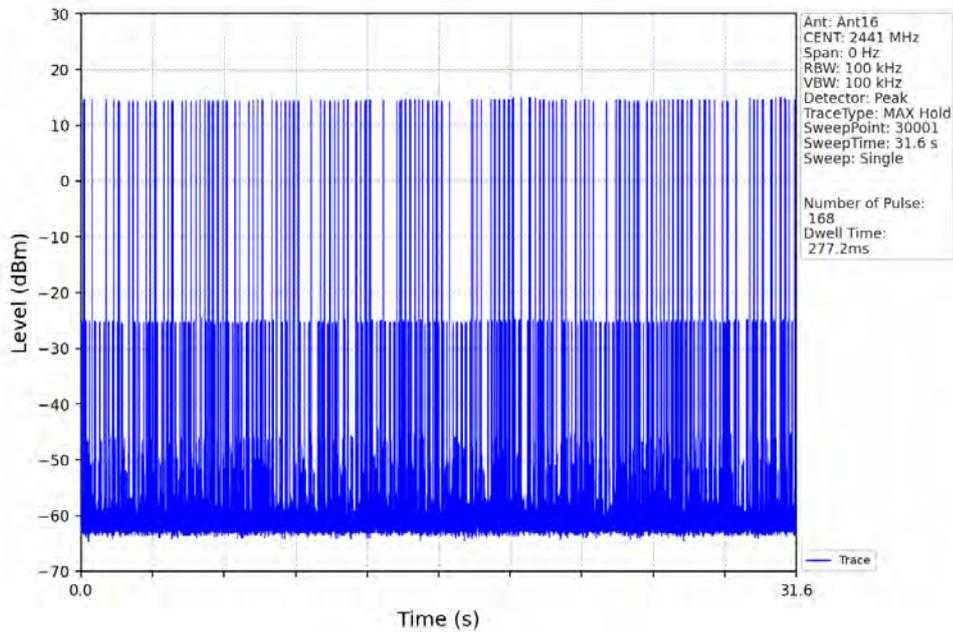
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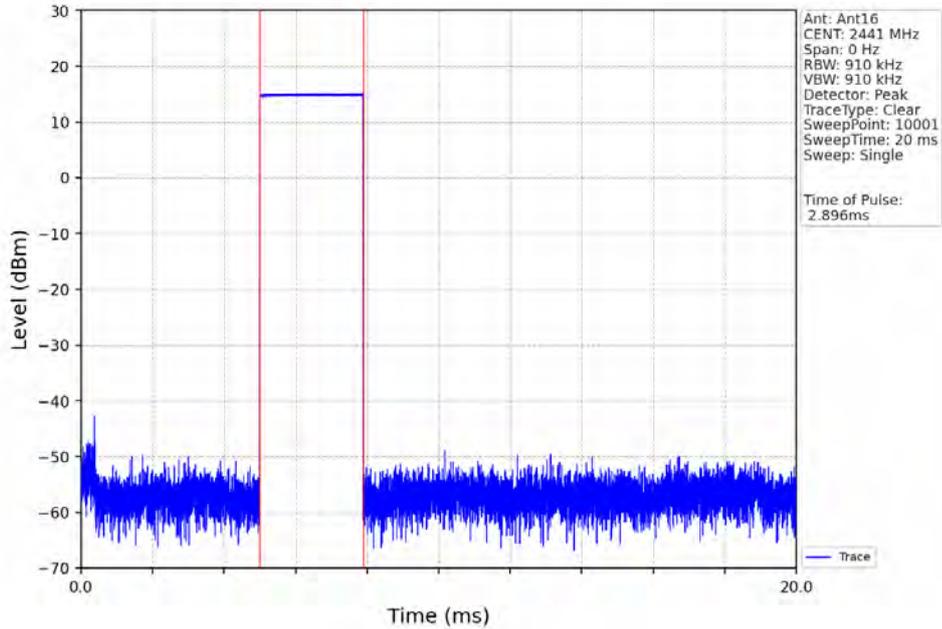
GFSK_DH3_HOPP_Ant16_NTNV



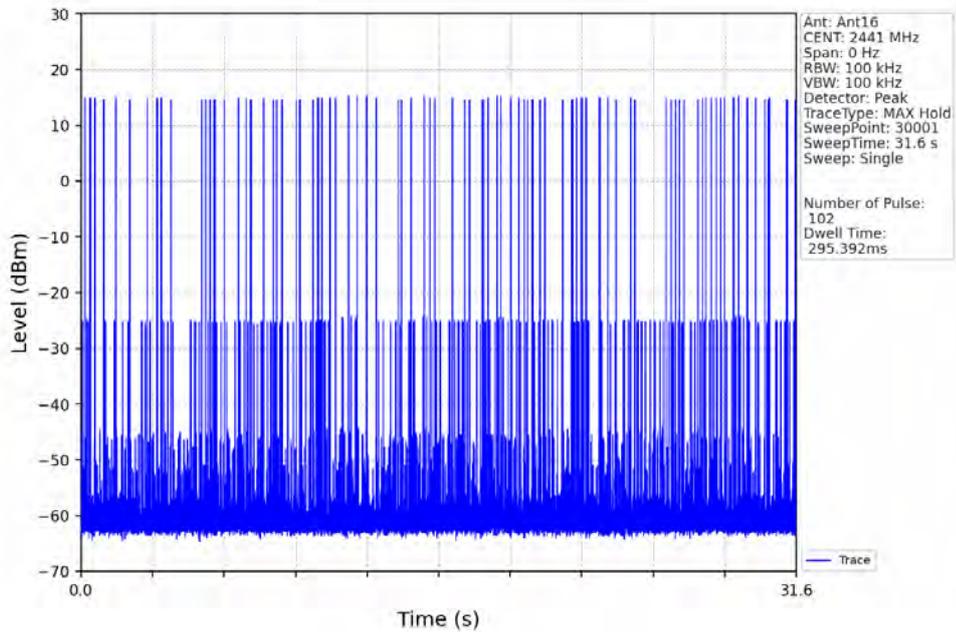
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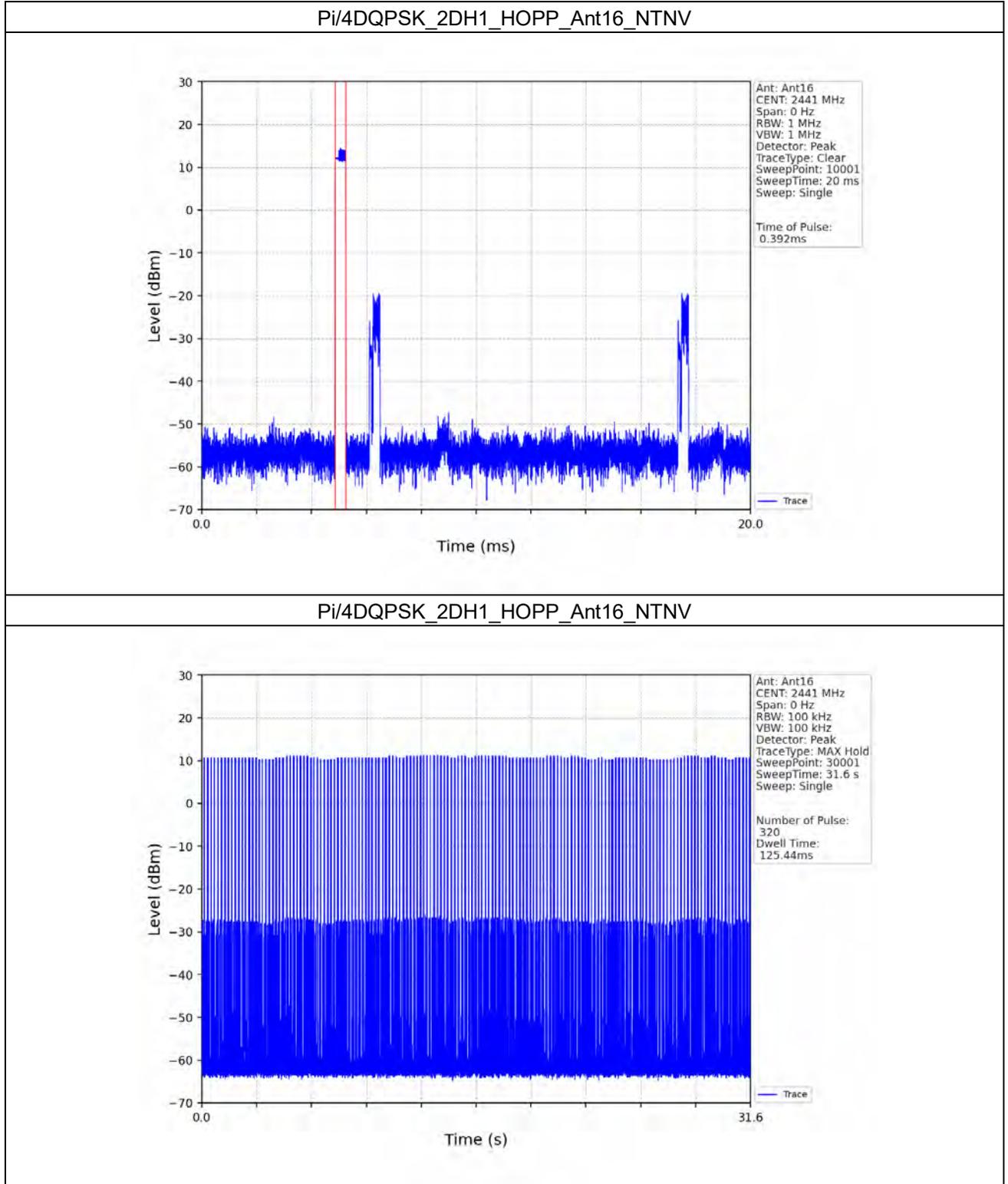


GFSK_DH5_HOPP_Ant16_NTNV



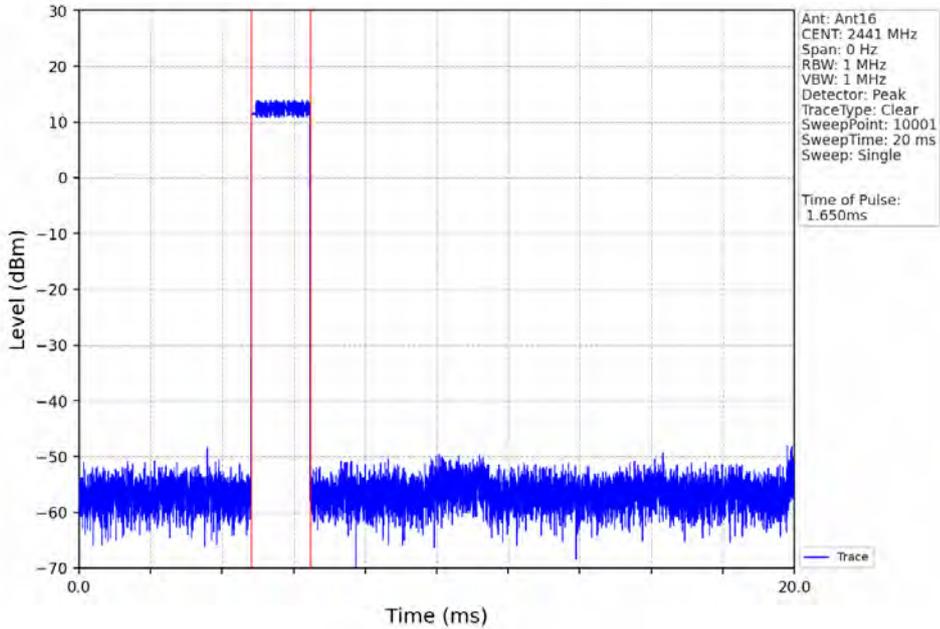
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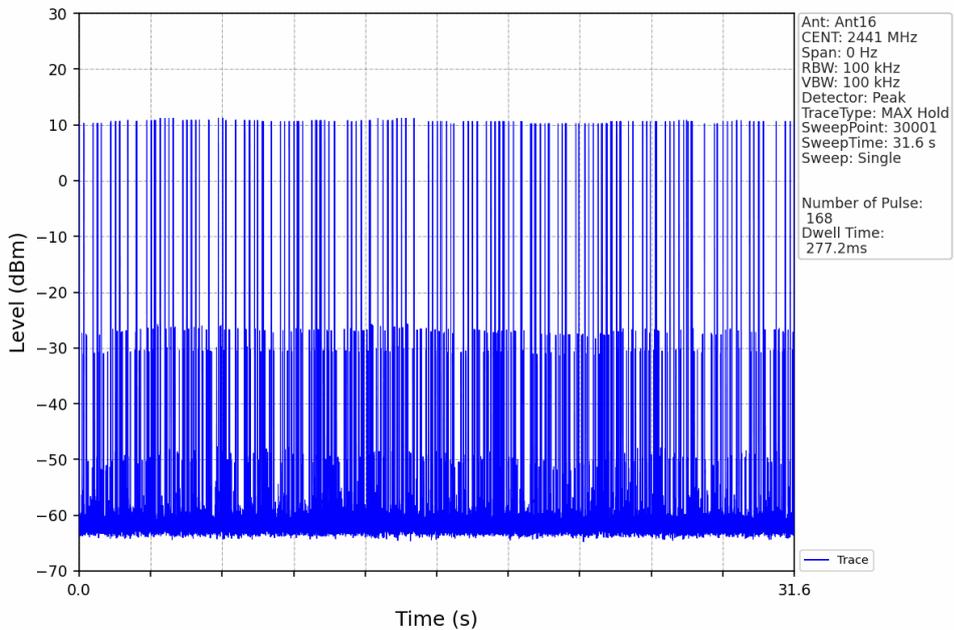


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Pi/4DQPSK_2DH3_HOPP_Ant16_NTNV



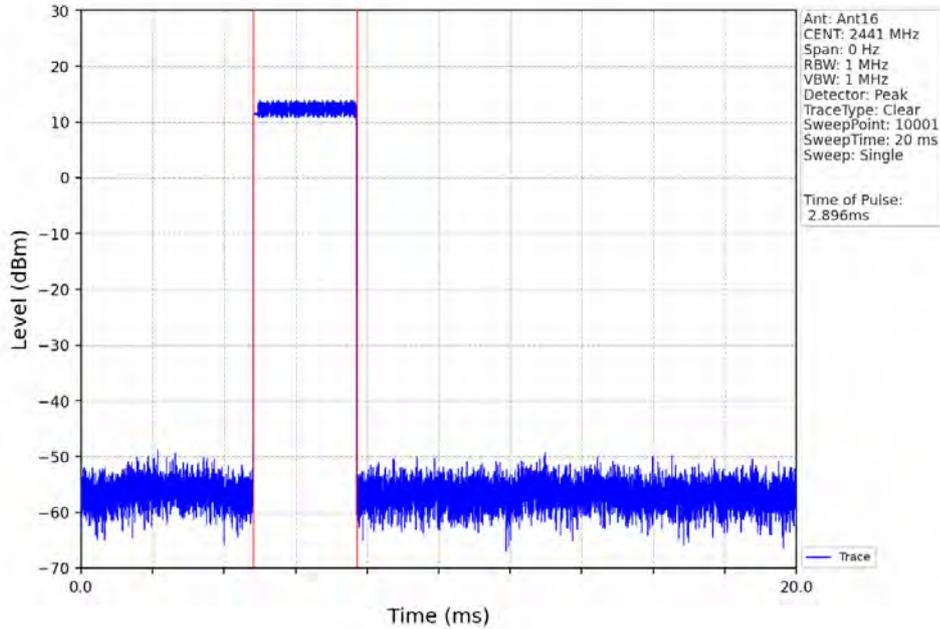
Pi/4DQPSK_2DH3_HOPP_Ant16_NTNV



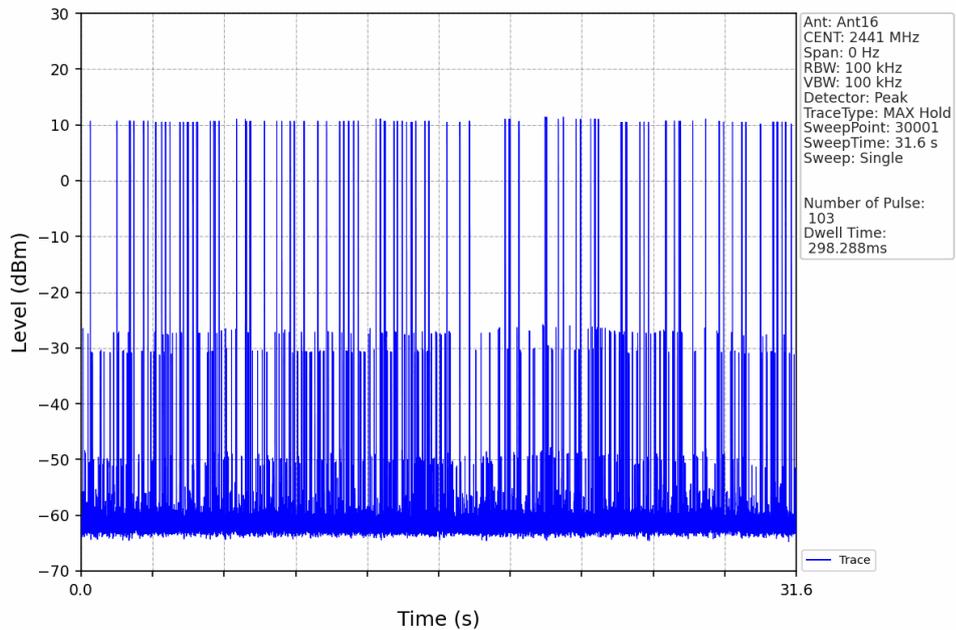
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Pi/4DQPSK_2DH5_HOPP_Ant16_NTNV



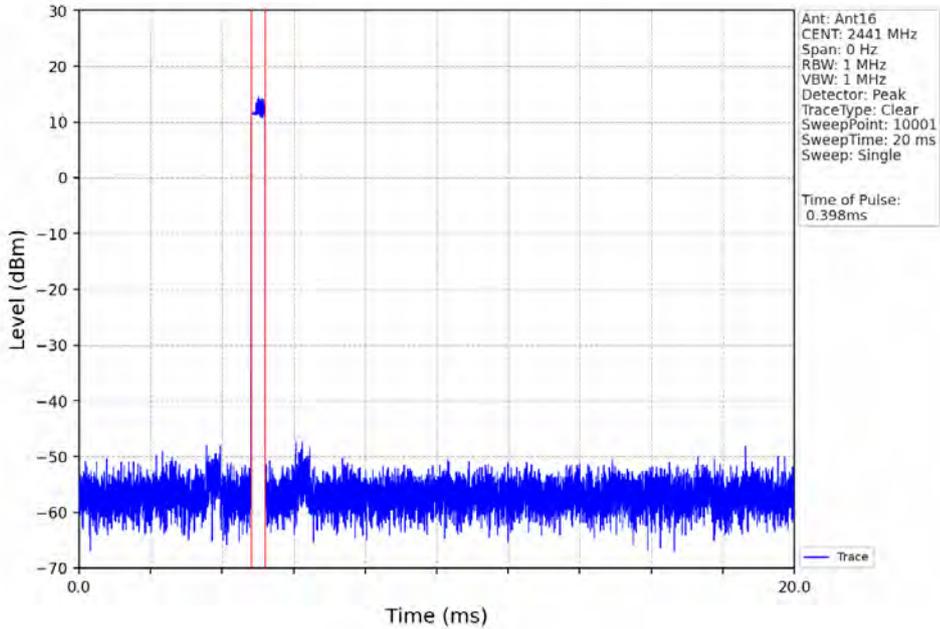
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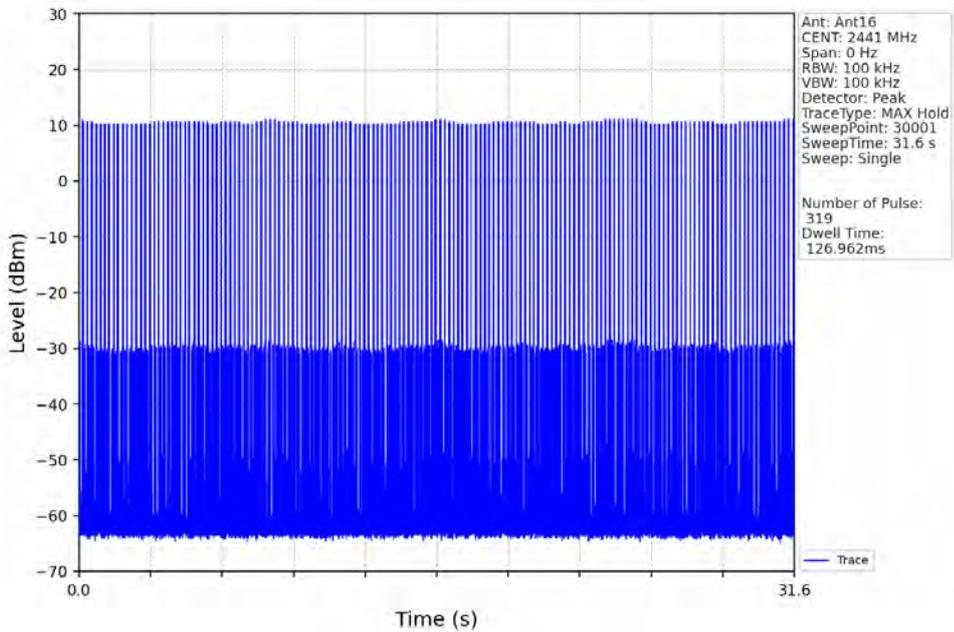
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8DPSK_3DH1_HOPP_Ant16_NTNV

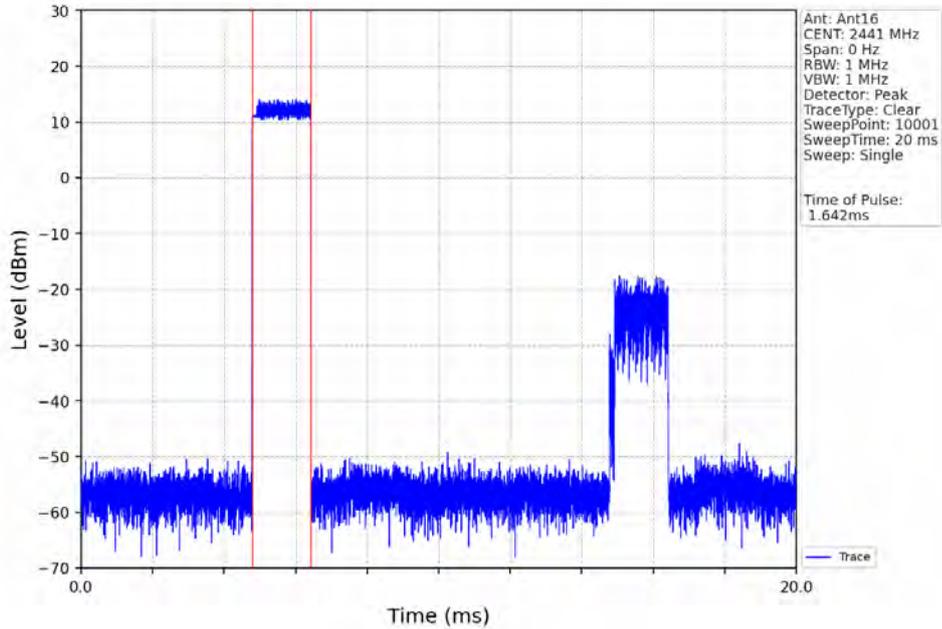


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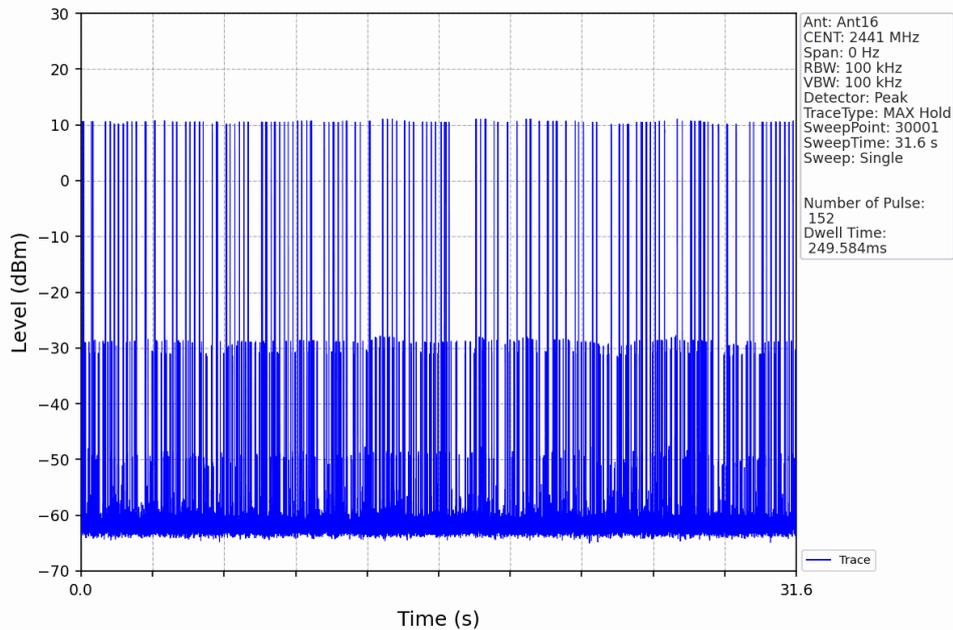


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8DPSK_3DH3_HOPP_Ant16_NTNV



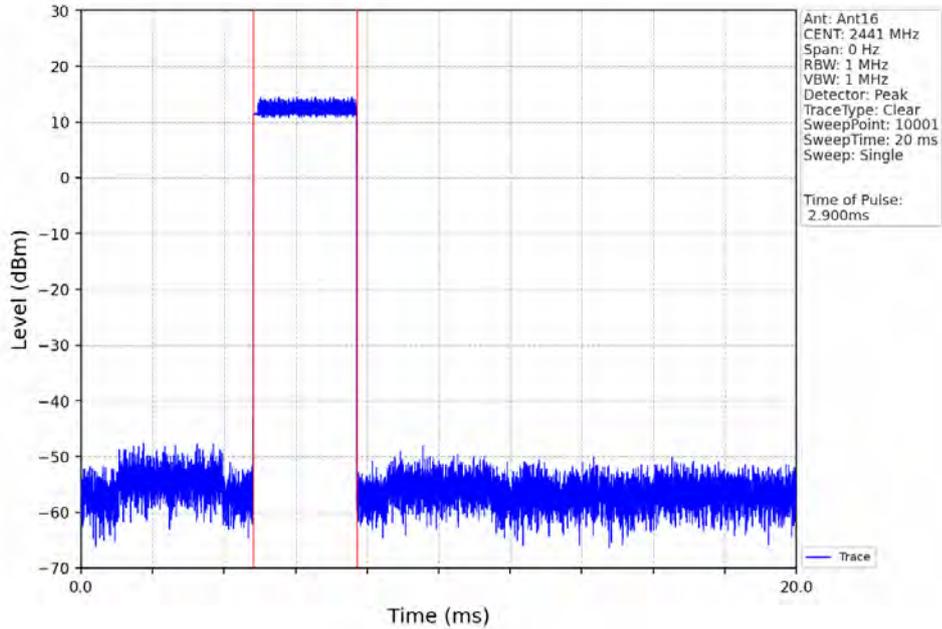
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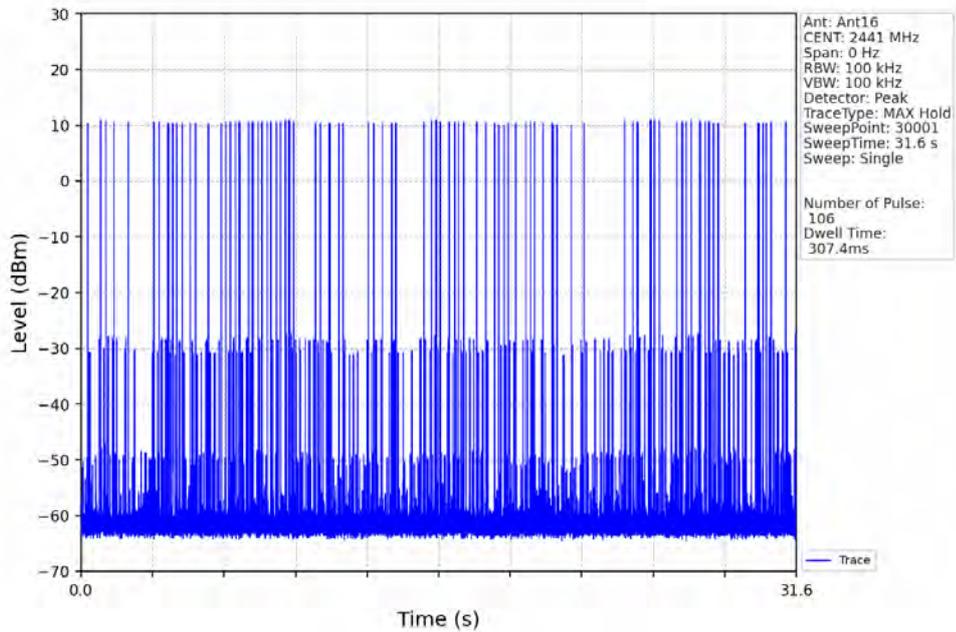
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8DPSK_3DH5_HOPP_Ant16_NTNV



8DPSK_3DH5_HOPP_Ant16_NTNV



12. Unwanted Emissions In Non-restricted Frequency Bands

12.1 Test Result

12.1.1 Ref

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)
GFSK	SISO	2402	DH5	16	13.96
		2441	DH5	16	15.28
		2480	DH5	16	14.83
Pi/4DQPSK	SISO	2402	2DH5	16	10.53
		2441	2DH5	16	11.77
		2480	2DH5	16	11.47
8DPSK	SISO	2402	3DH5	16	10.58
		2441	3DH5	16	11.44
		2480	3DH5	16	11.12

12.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	16	15.28	-4.72	Pass
		2441	DH5	16	15.28	-4.72	Pass
		2480	DH5	16	15.28	-4.72	Pass
		HOPP	DH5	16	15.28	-4.72	Pass
					15.28	-4.72	Pass
Pi/4DQPSK	SISO	2402	2DH5	16	11.77	-8.23	Pass
		2441	2DH5	16	11.77	-8.23	Pass
		2480	2DH5	16	11.77	-8.23	Pass
		HOPP	2DH5	16	11.77	-8.23	Pass
					11.77	-8.23	Pass
8DPSK	SISO	2402	3DH5	16	11.44	-8.56	Pass
		2441	3DH5	16	11.44	-8.56	Pass
		2480	3DH5	16	11.44	-8.56	Pass
		HOPP	3DH5	16	11.44	-8.56	Pass
					11.44	-8.56	Pass

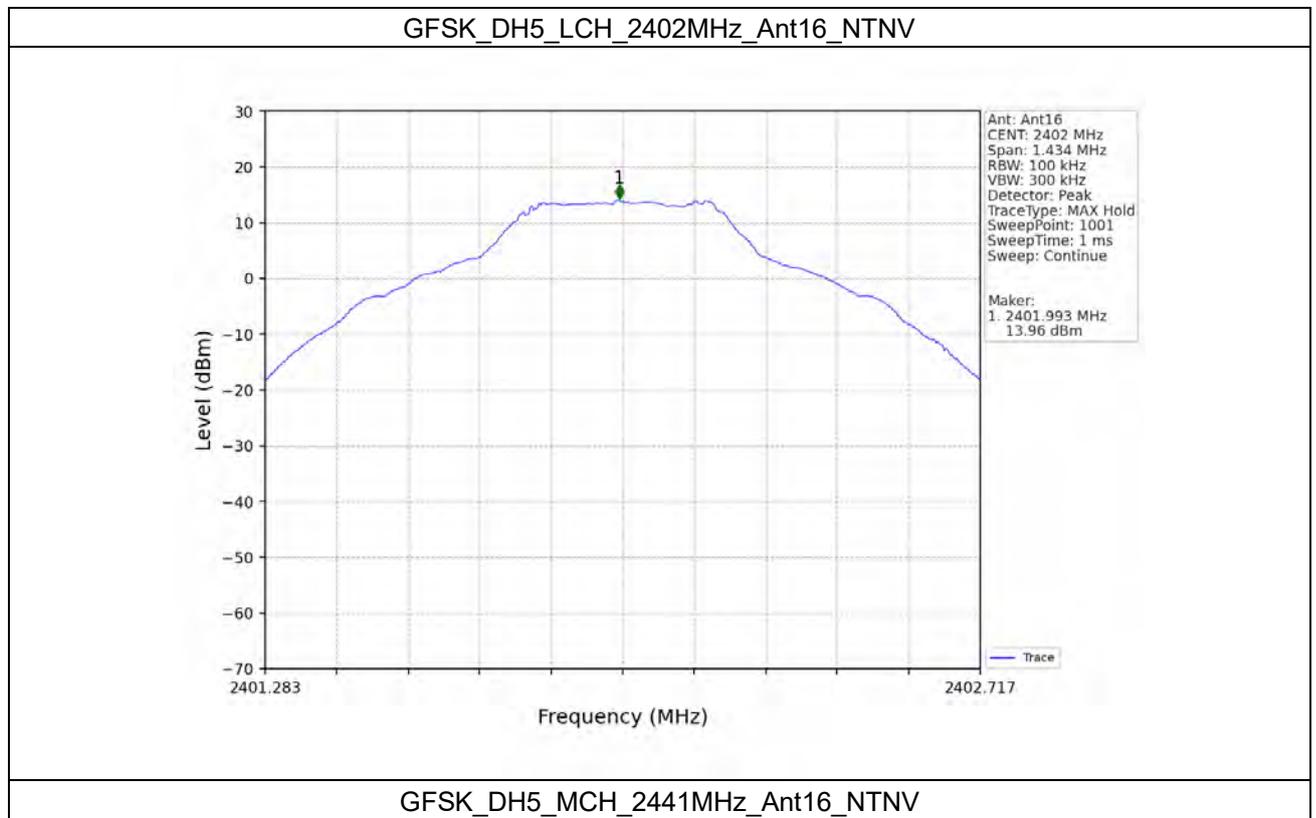


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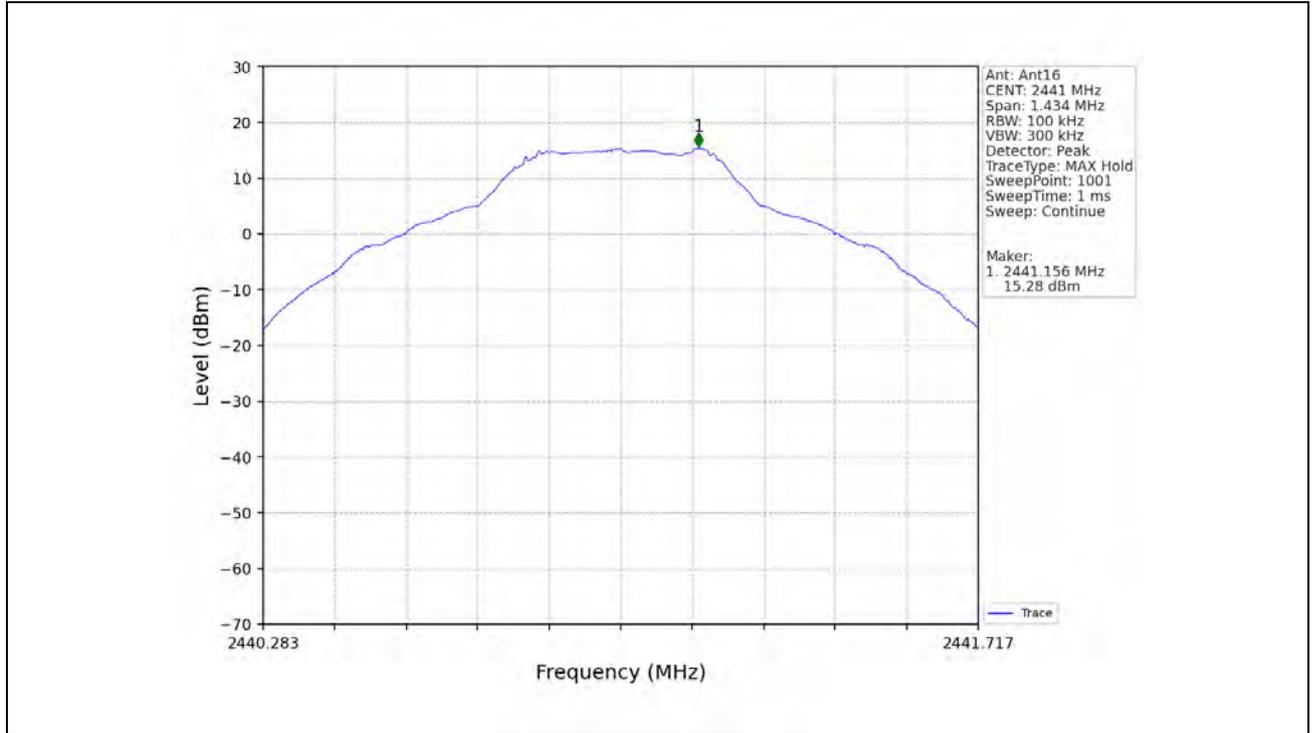
12.2 Test Graph

12.2.1 Ref

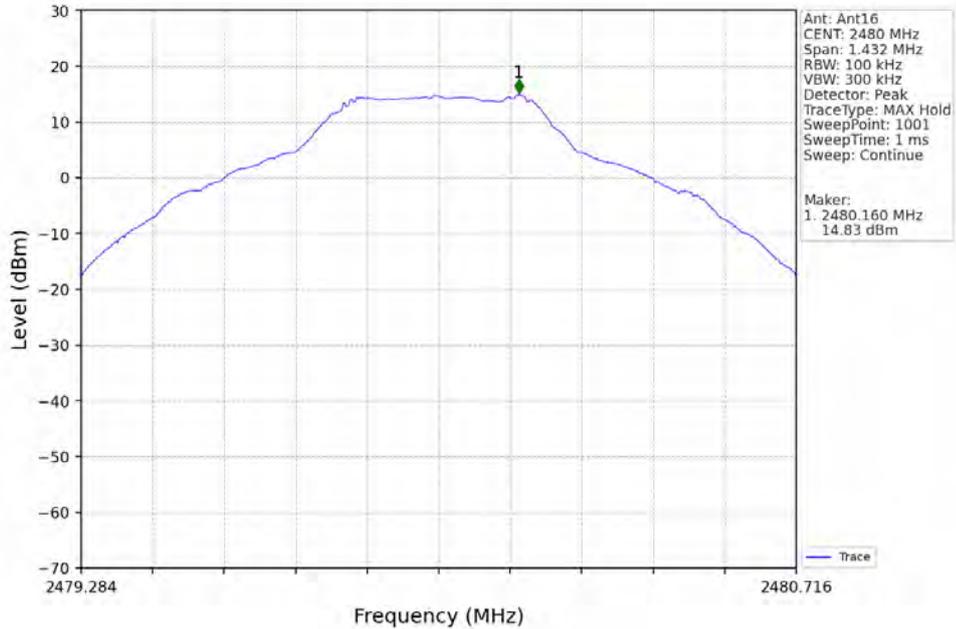


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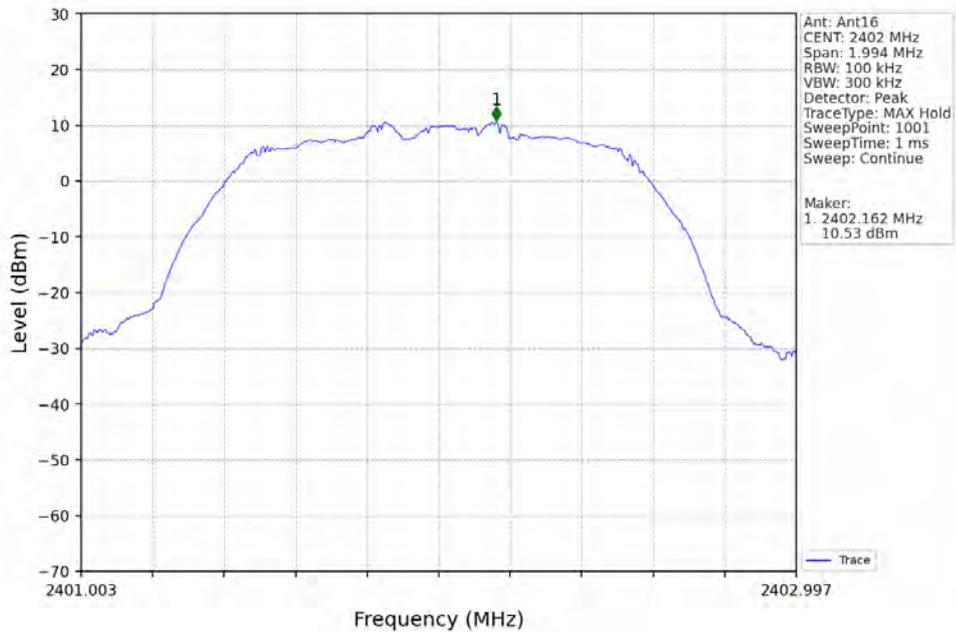
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 中国·广东·深圳市南山区科技园中区M-10栋1号厂房 邮编: 518057 t (86-755) 26012053 f (86-755) 26710594 sgs.china@sgs.com



GFSK_DH5_HCH_2480MHz_Ant16_NTNV

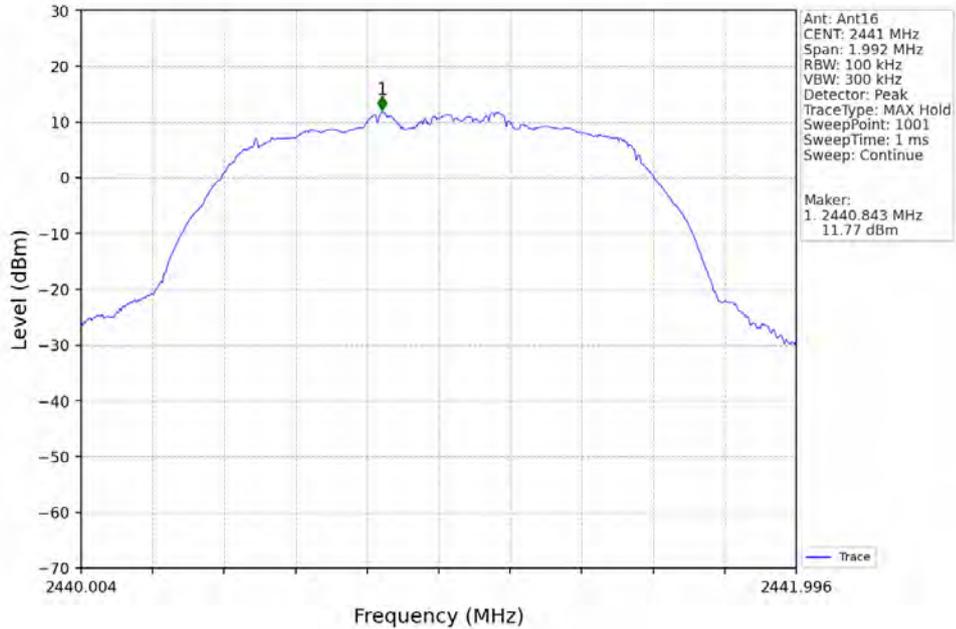


Pi/4DQPSK_2DH5_LCH_2402MHz_Ant16_NTNV

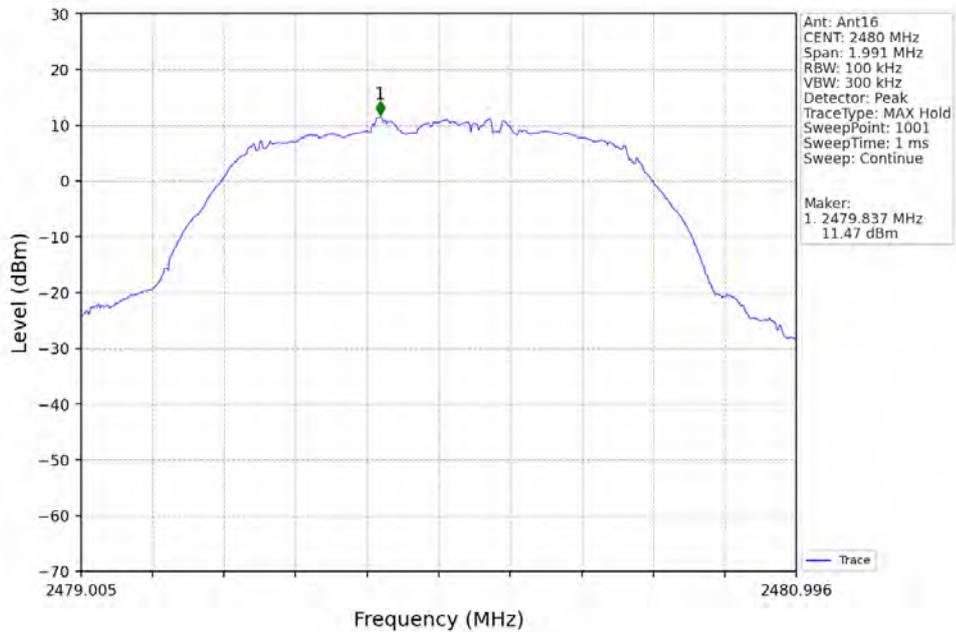


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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant16_NTNV

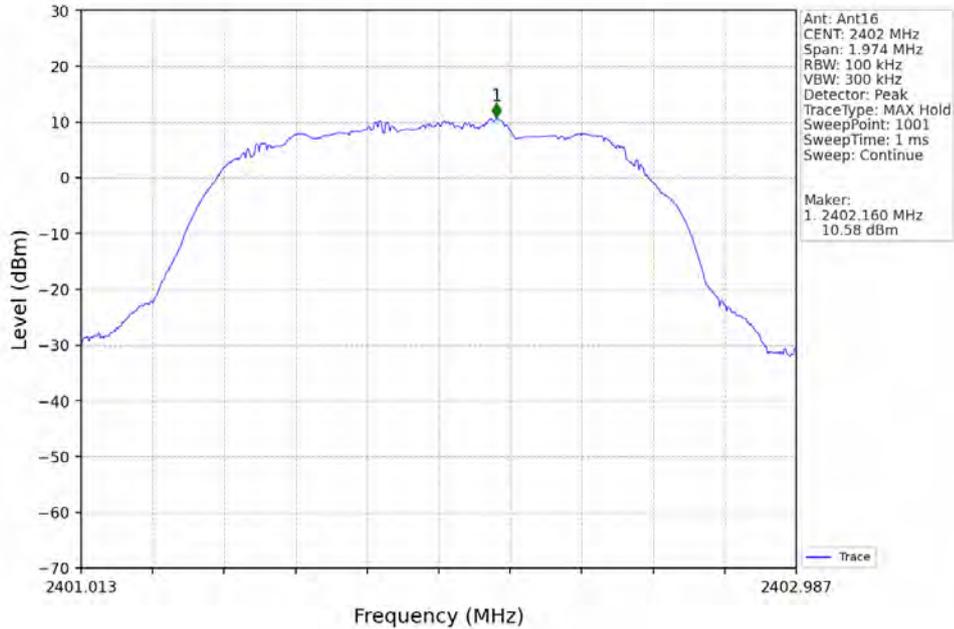


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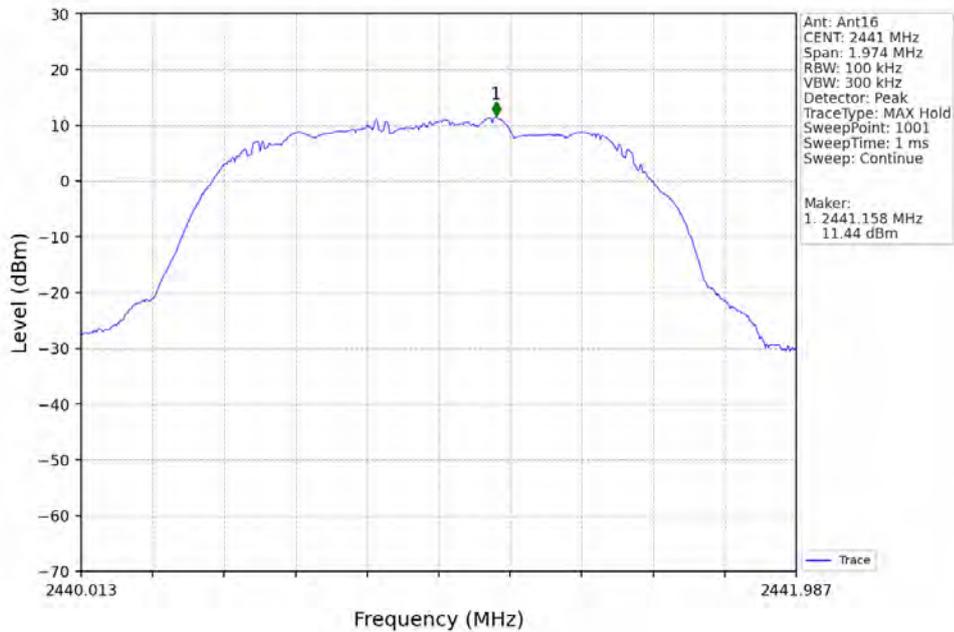


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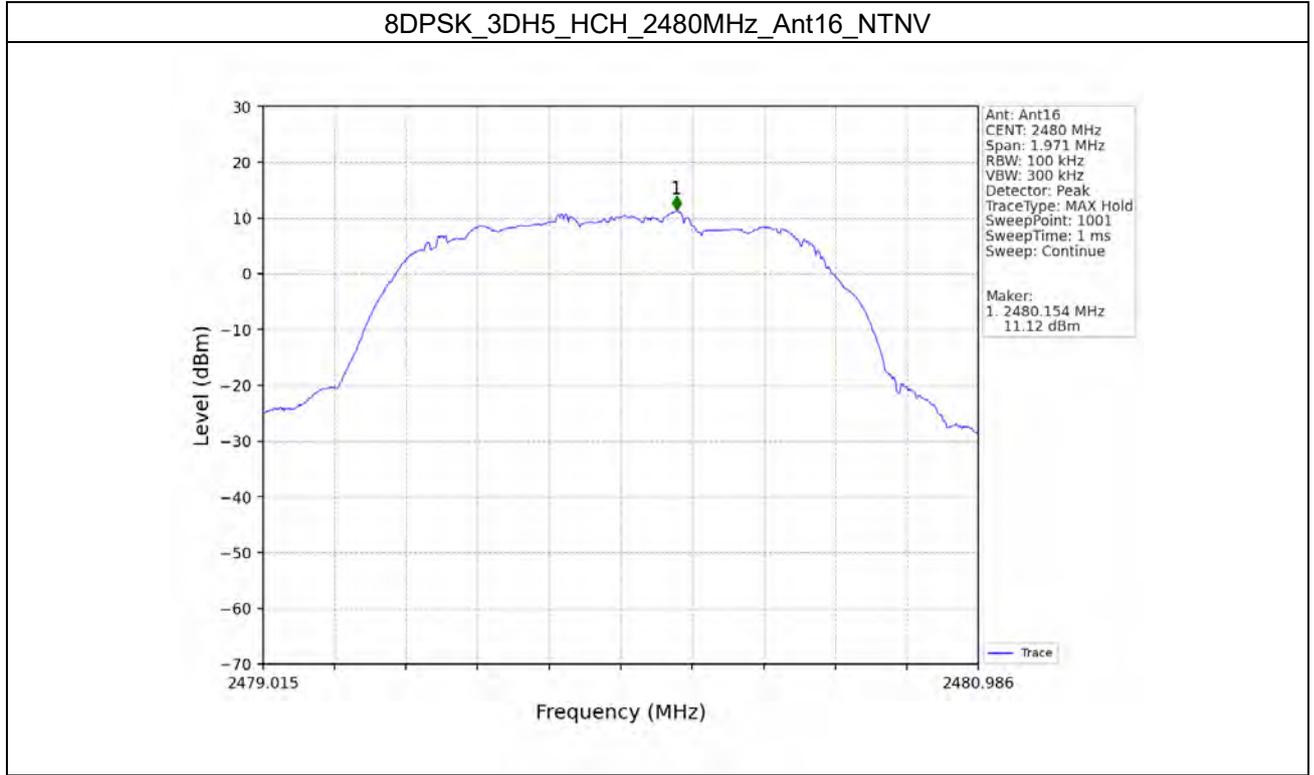
8DPSK_3DH5_LCH_2402MHz_Ant16_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant16_NTNV

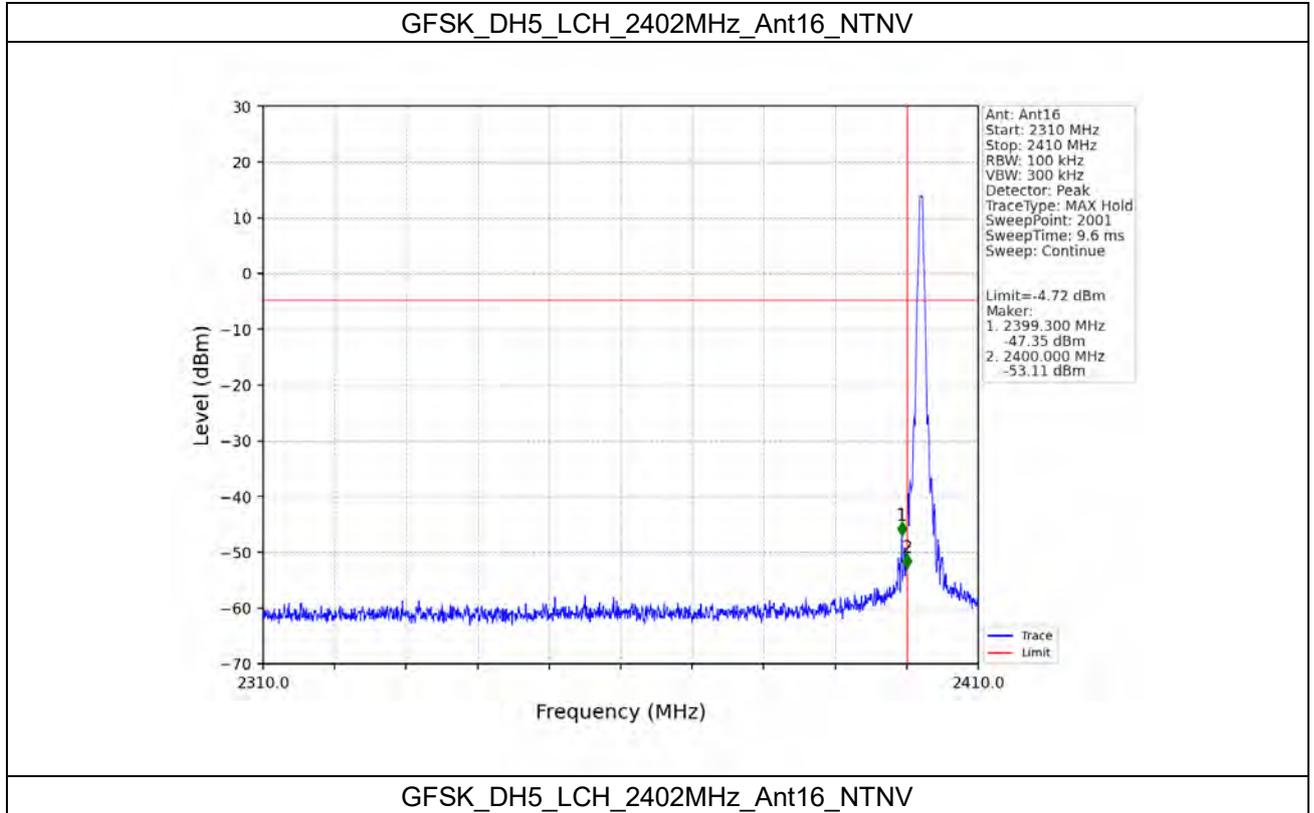


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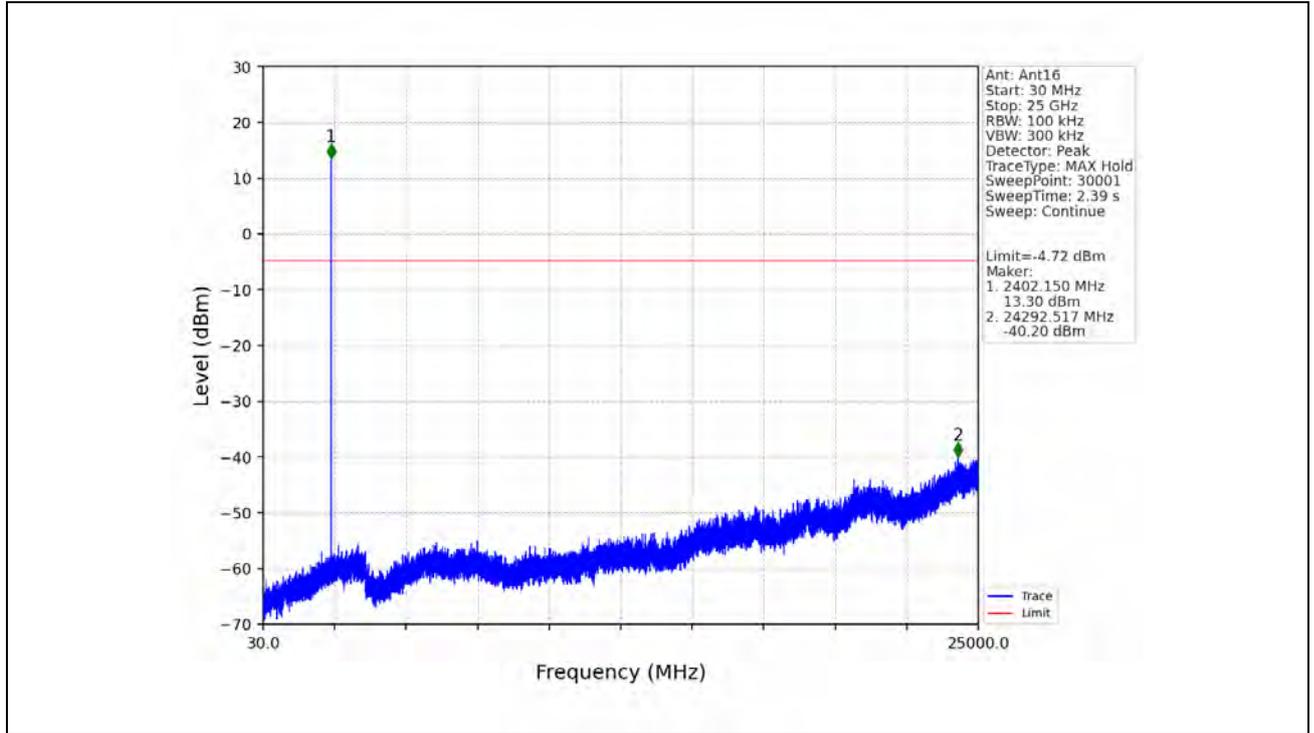
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12.2.2 CSE



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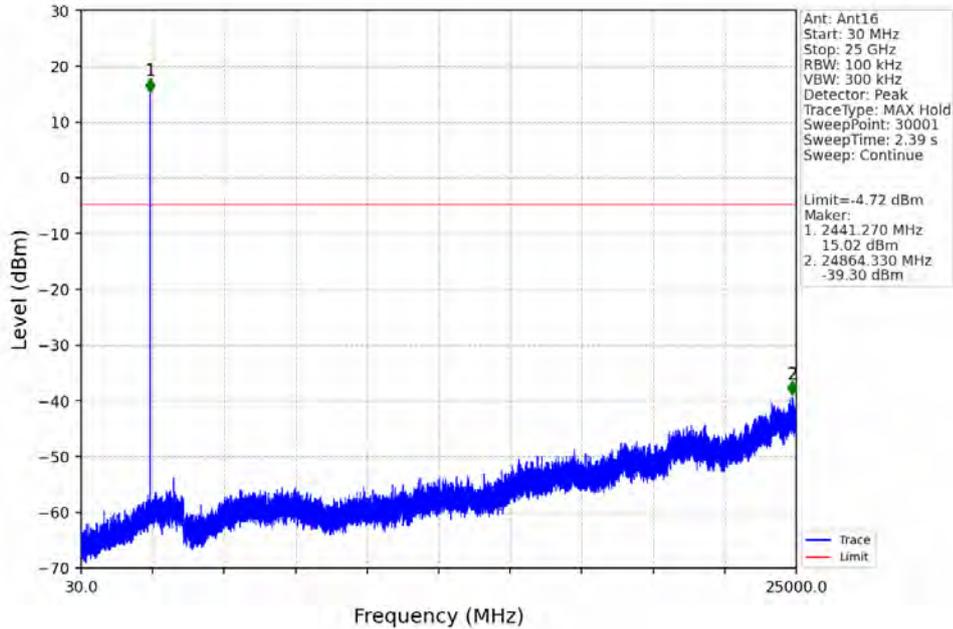
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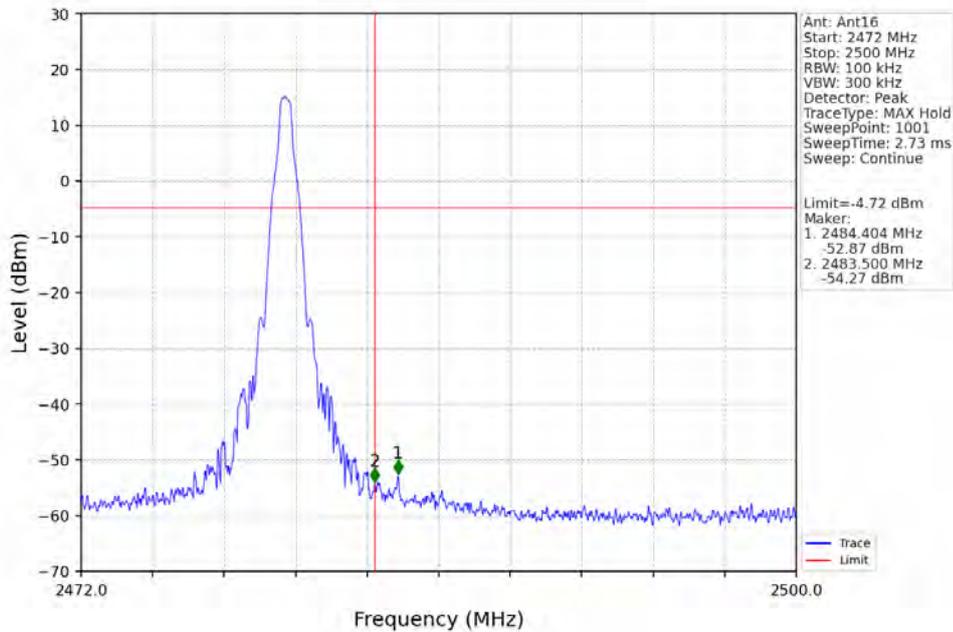
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GFSK_DH5_MCH_2441MHz_Ant16_NTNV

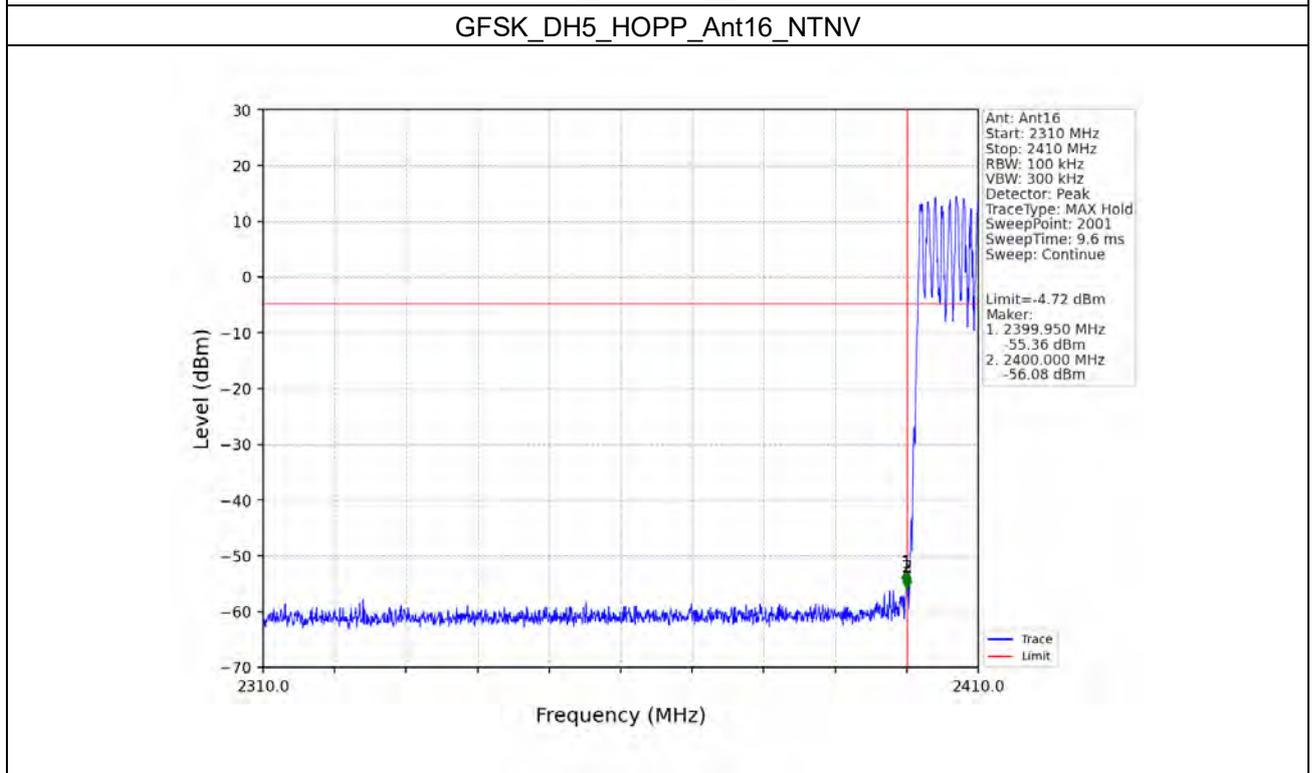
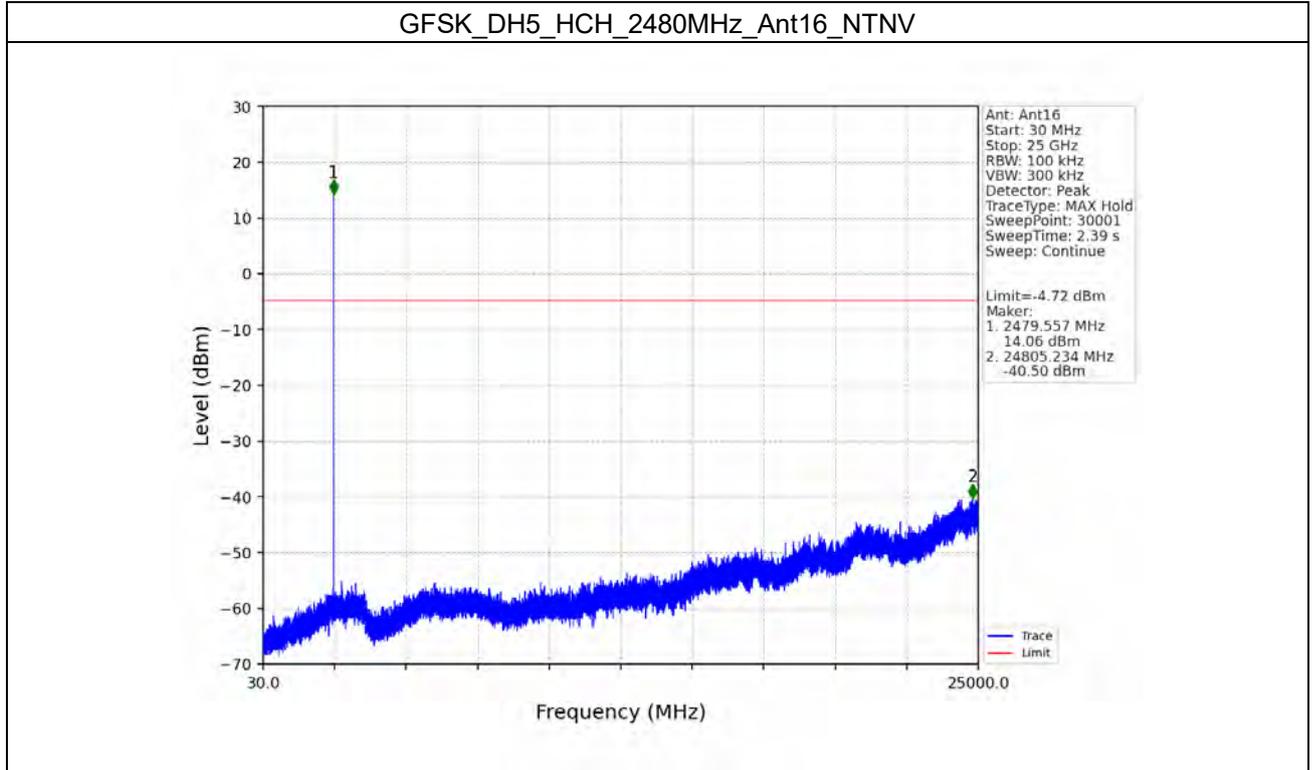


GFSK_DH5_HCH_2480MHz_Ant16_NTNV

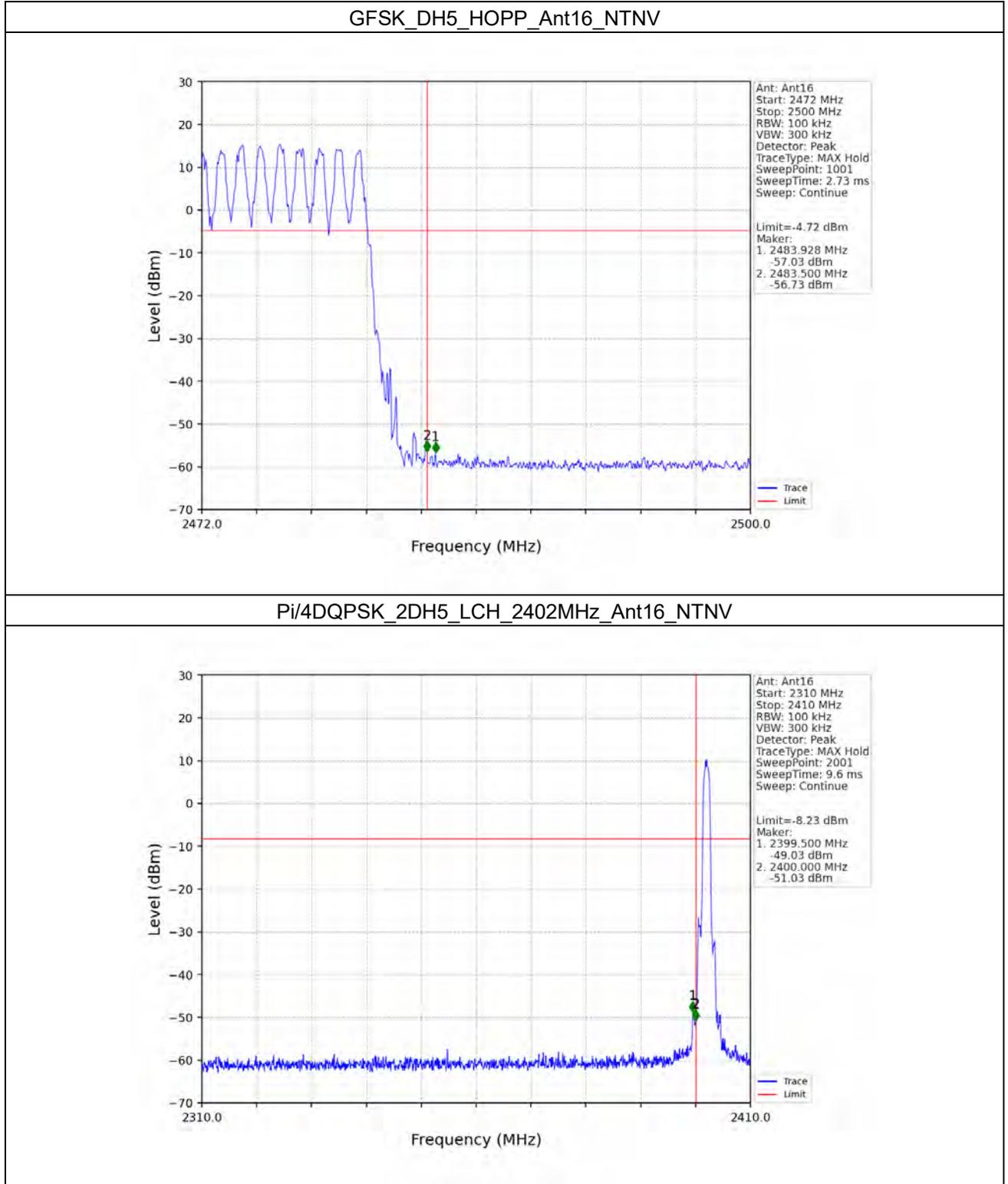


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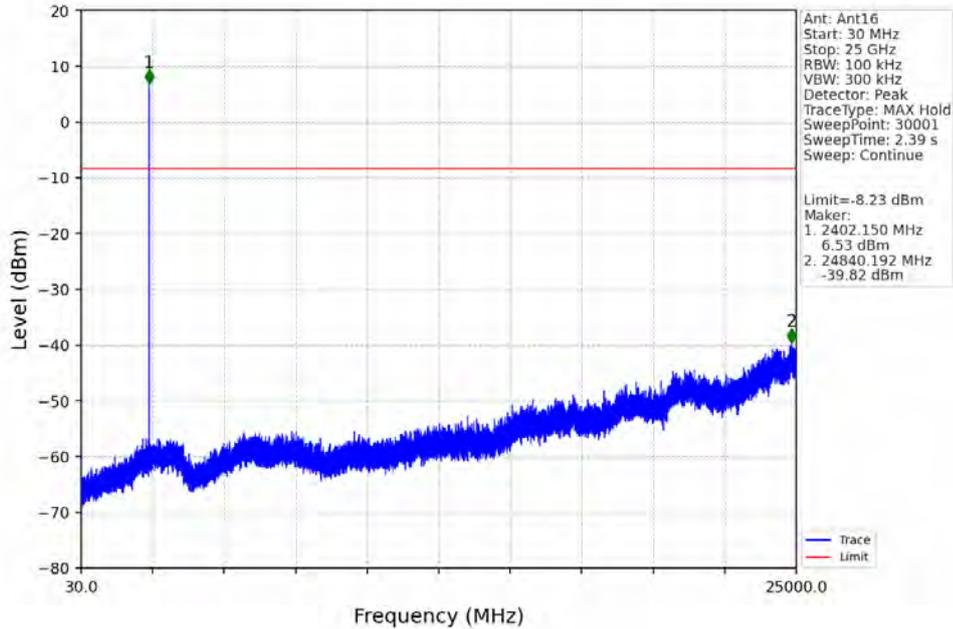


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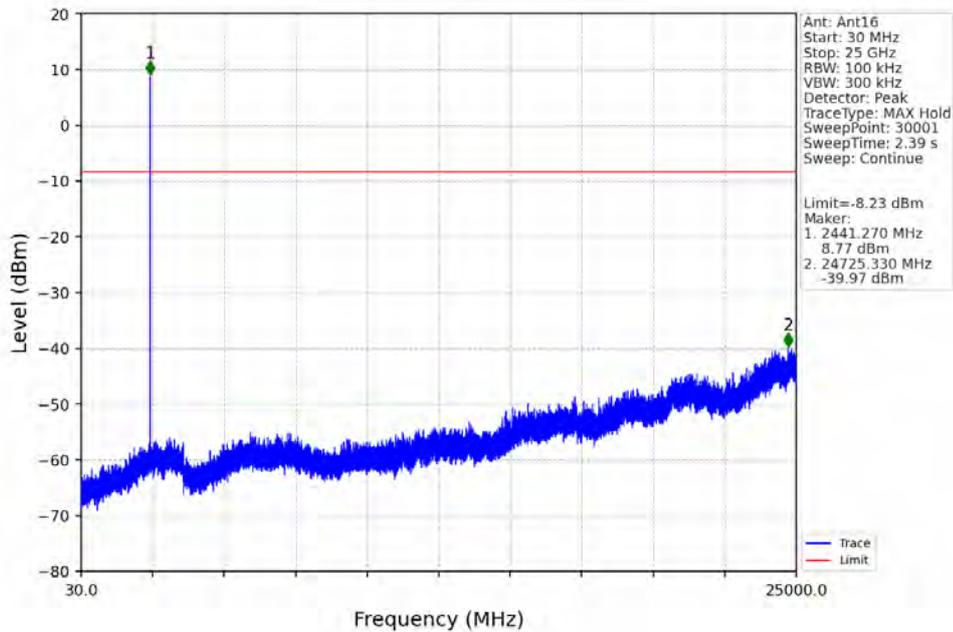


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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant16_NTNV



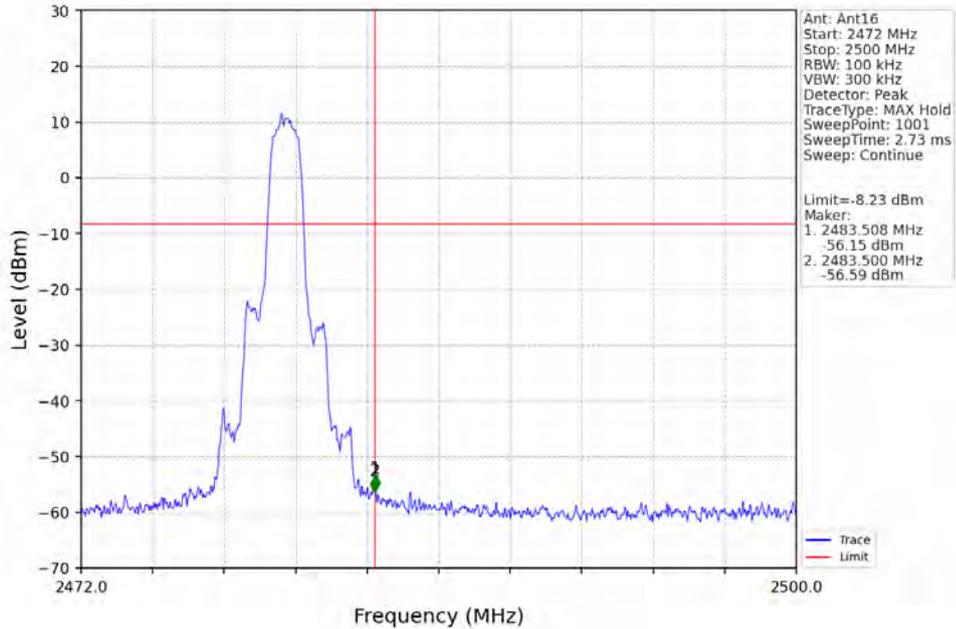
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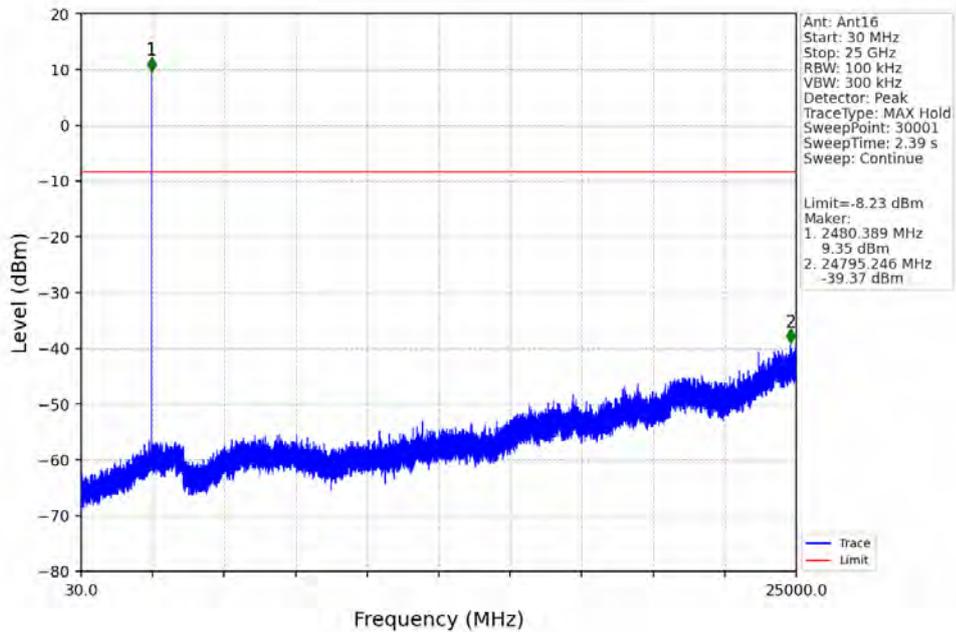
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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant16_NTNV

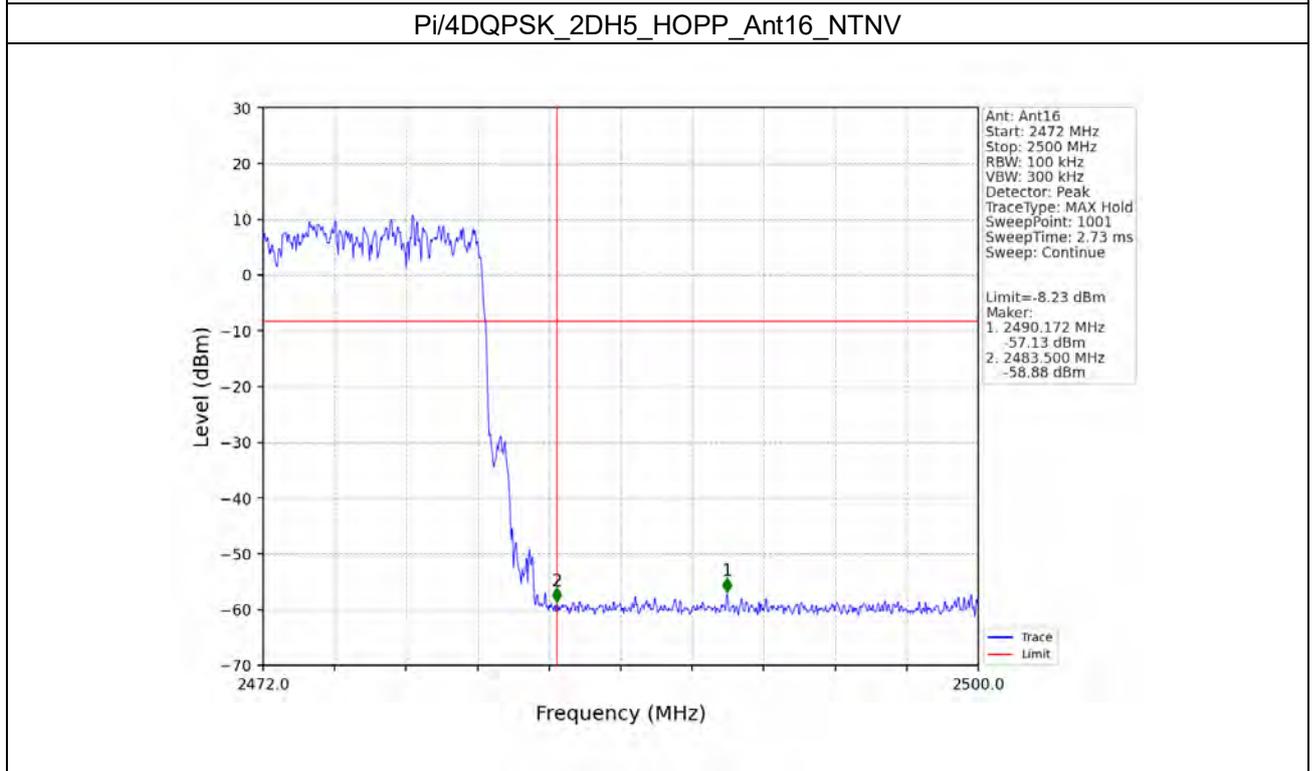
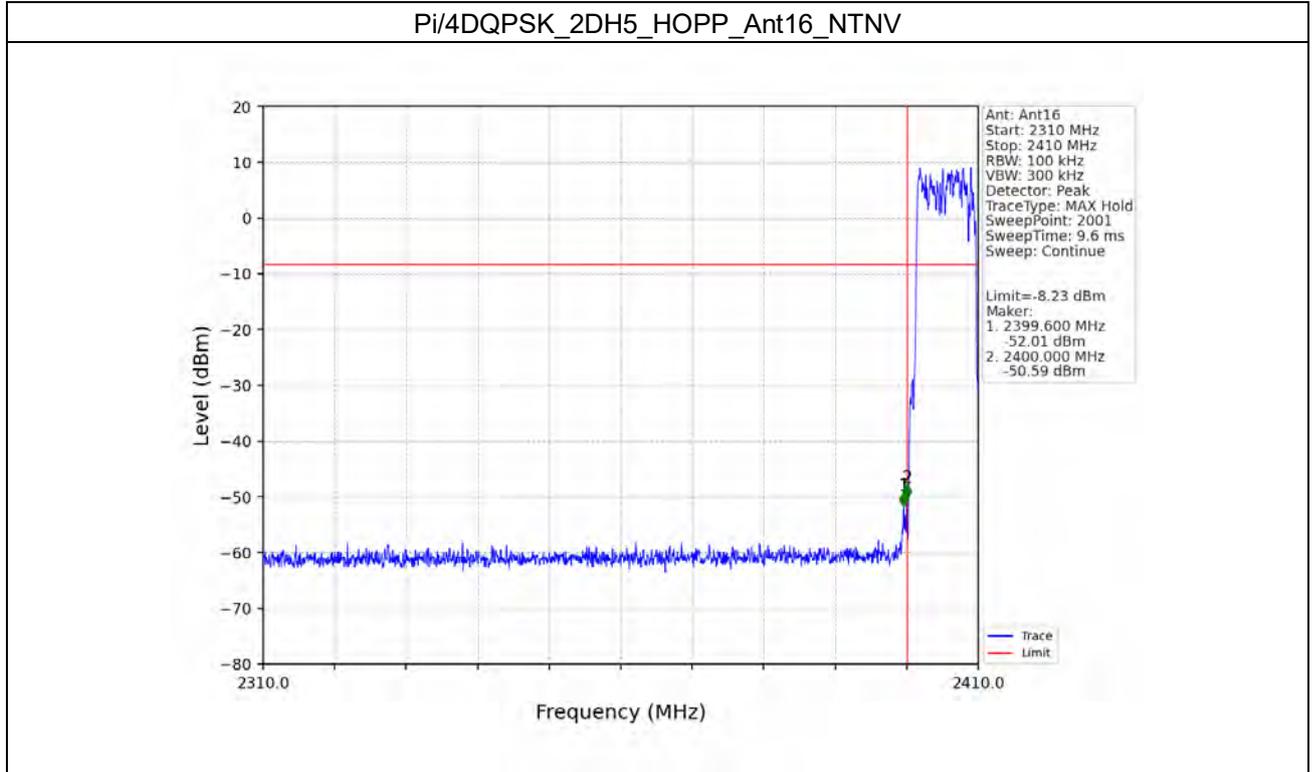


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant16_NTNV



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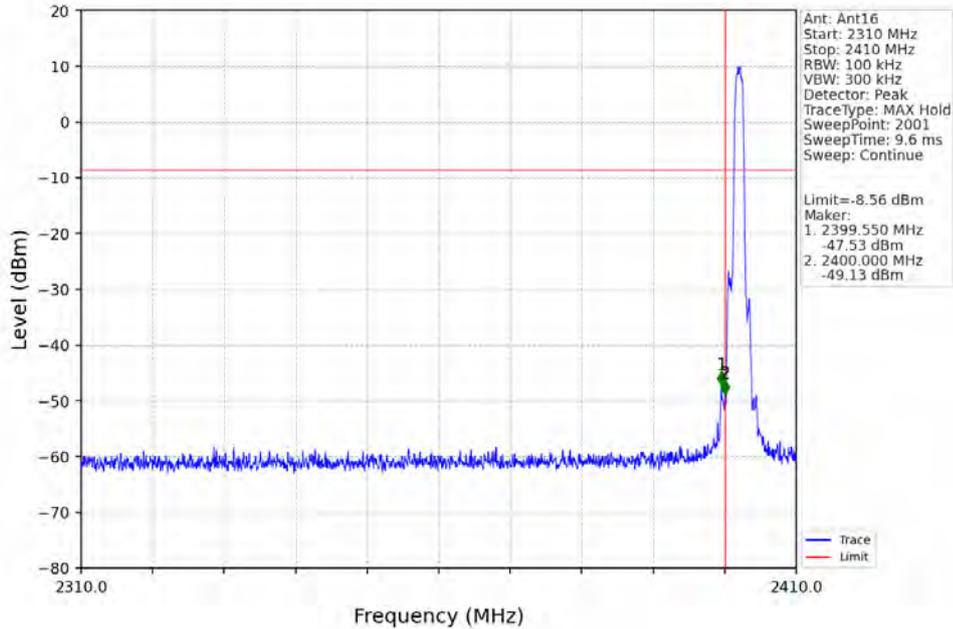
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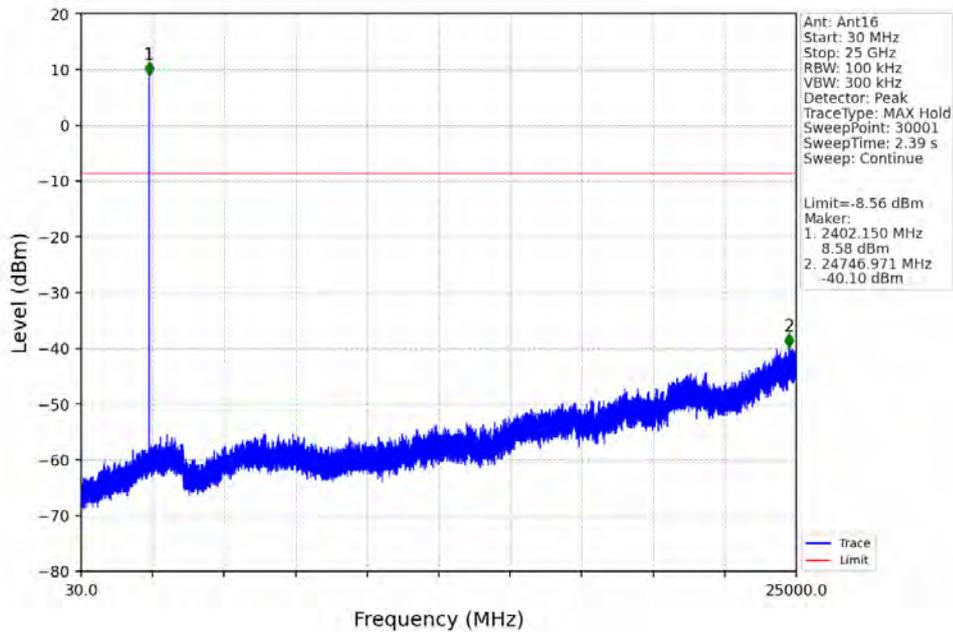
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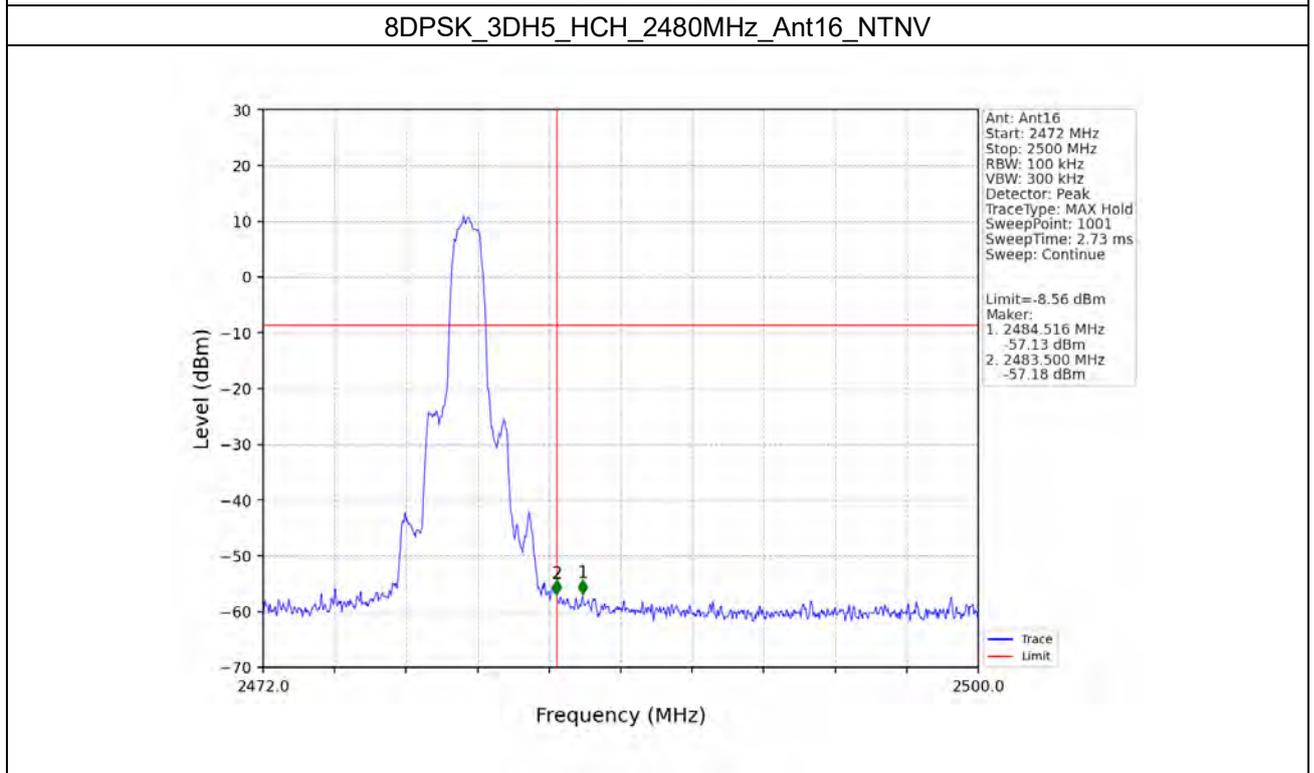
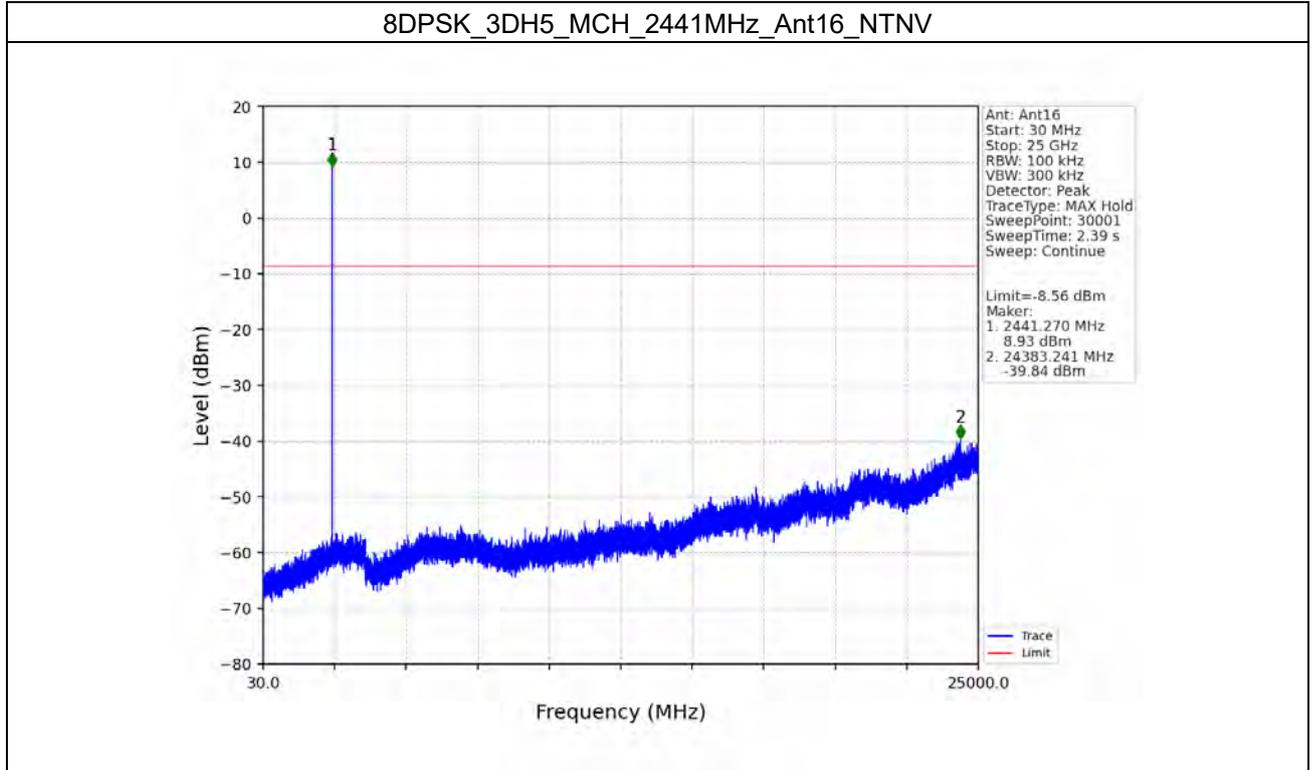
8DPSK_3DH5_LCH_2402MHz_Ant16_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant16_NTNV

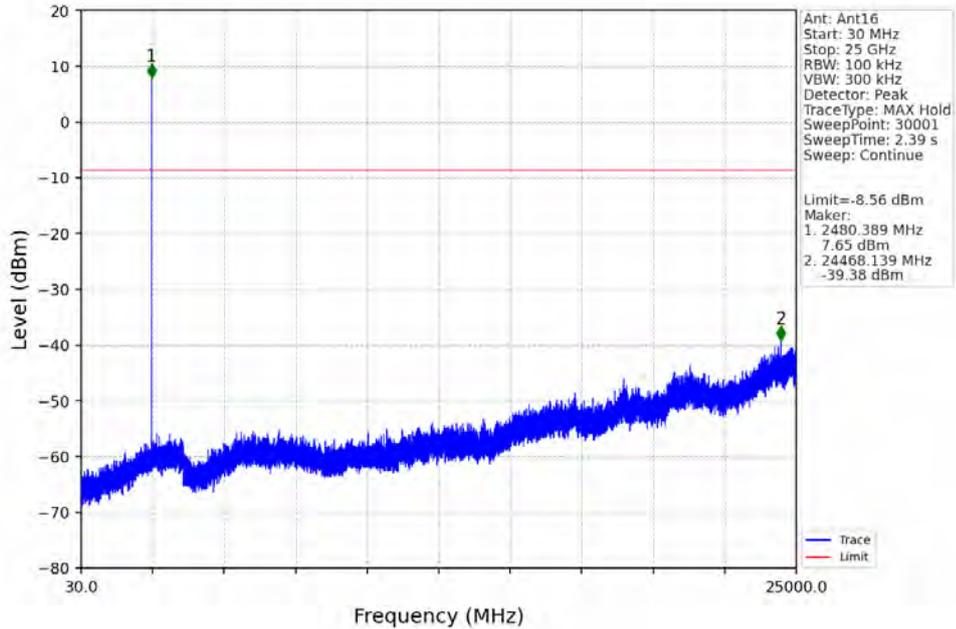


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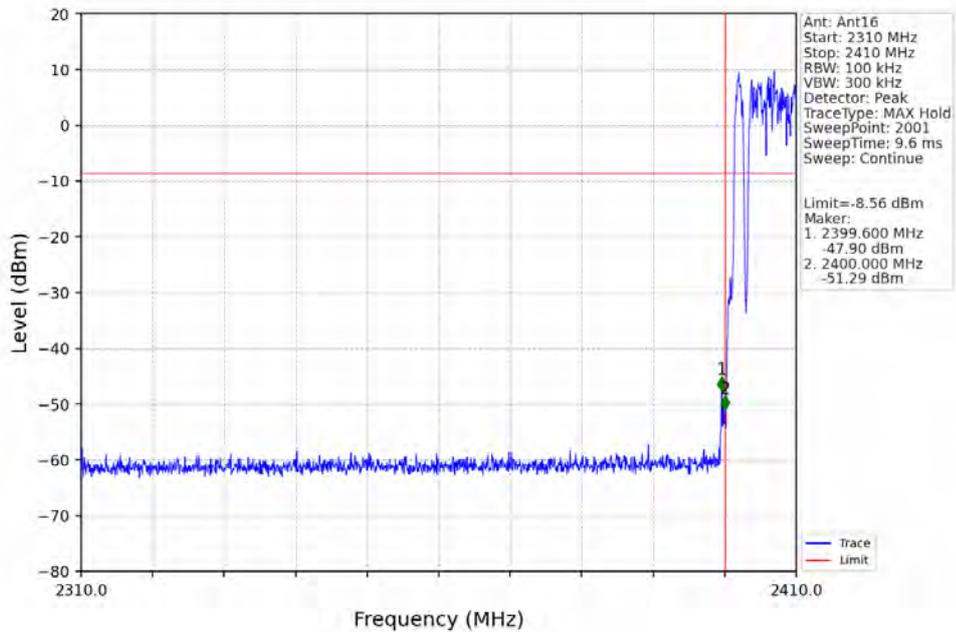


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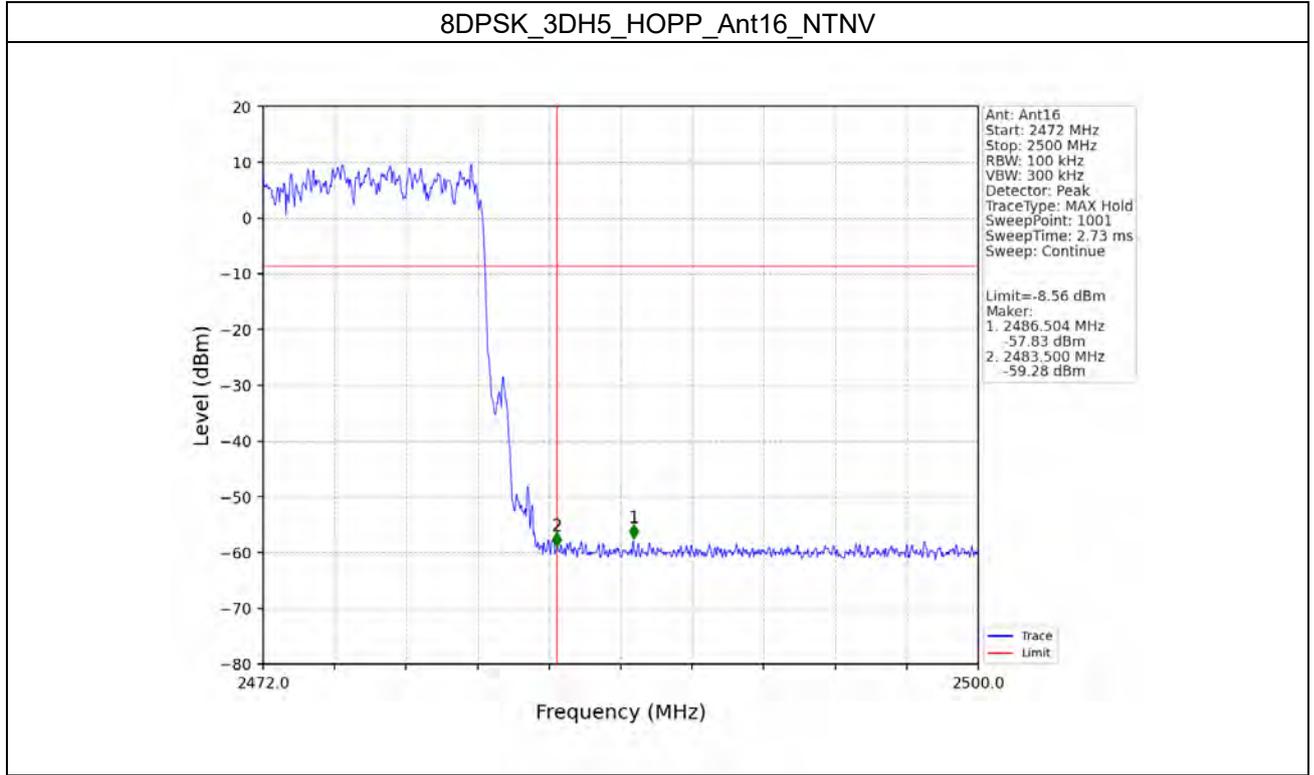
8DPSK_3DH5_HCH_2480MHz_Ant16_NTNV



8DPSK_3DH5_HOPP_Ant16_NTNV



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TxBF:

13. Bandwidth

13.1 Test Result

13.1.1 OBW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	99% Occupied Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	16	0.852	/	Pass
				7	0.849	/	Pass
		2441	DH5	16	0.853	/	Pass
				7	0.849	/	Pass
		2480	DH5	16	0.853	/	Pass
				7	0.853	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	16	1.212	/	Pass
				7	1.182	/	Pass
		2441	2DH5	16	1.195	/	Pass
				7	1.181	/	Pass
		2480	2DH5	16	1.210	/	Pass
				7	1.182	/	Pass
8DPSK	SISO	2402	3DH5	16	1.222	/	Pass
				7	1.188	/	Pass
		2441	3DH5	16	1.186	/	Pass
				7	1.186	/	Pass
		2480	3DH5	16	1.222	/	Pass
				7	1.187	/	Pass

13.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	16	0.956	/	Pass
				7	0.952	/	Pass
		2441	DH5	16	0.955	/	Pass
				7	0.952	/	Pass
		2480	DH5	16	0.955	/	Pass
				7	0.957	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	16	1.343	/	Pass
				7	1.327	/	Pass



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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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Report No.: SZCR240900349303

Page: 144 of 231

		2441	2DH5	16	1.333	/	Pass
				7	1.328	/	Pass
		2480	2DH5	16	1.335	/	Pass
				7	1.333	/	Pass
8DPSK	SISO	2402	3DH5	16	1.321	/	Pass
				7	1.316	/	Pass
		2441	3DH5	16	1.318	/	Pass
				7	1.315	/	Pass
		2480	3DH5	16	1.322	/	Pass
				7	1.316	/	Pass

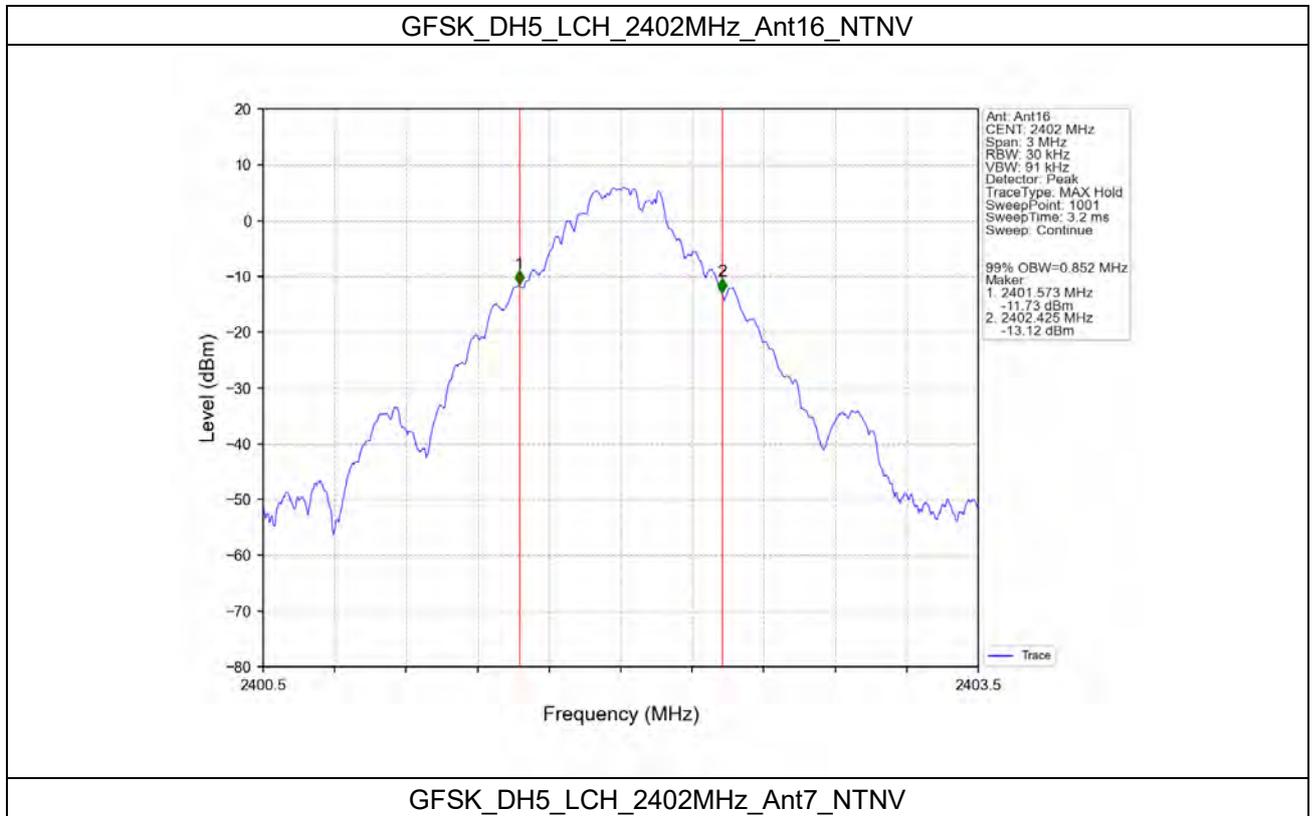


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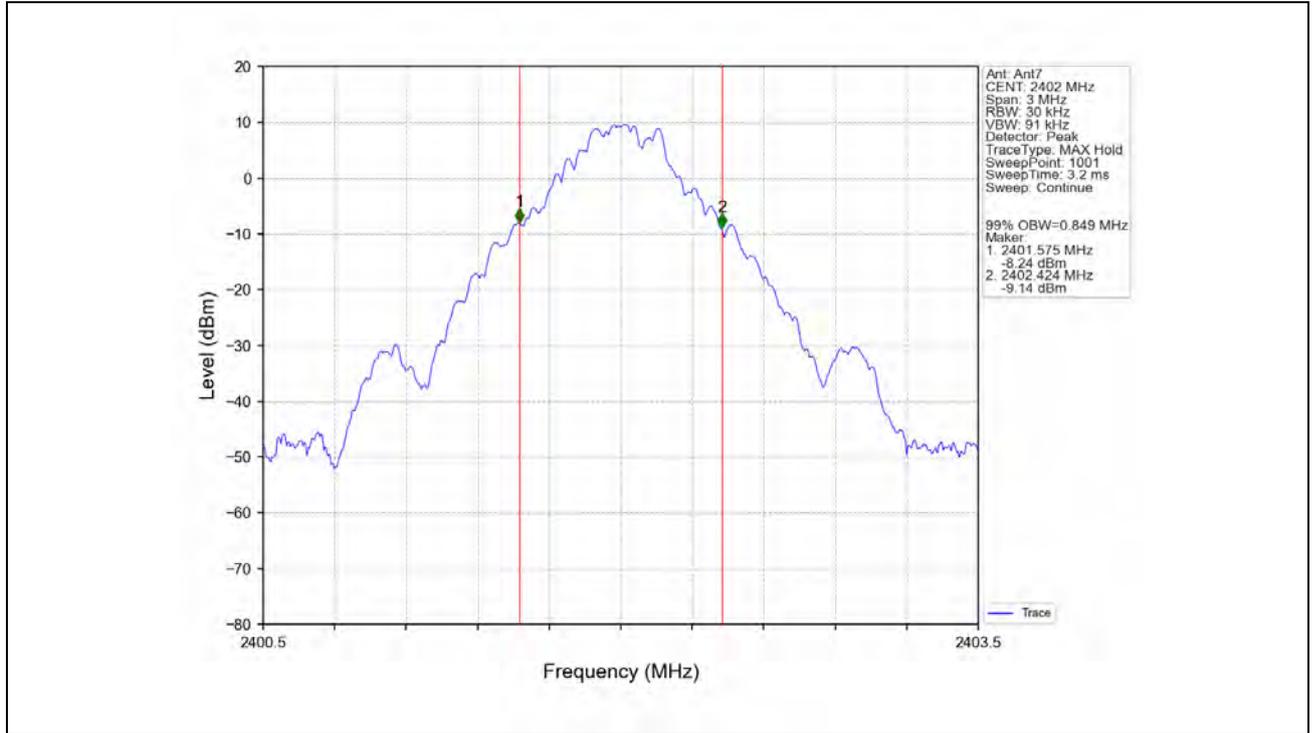
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13.2 Test Graph

13.2.1 OBW



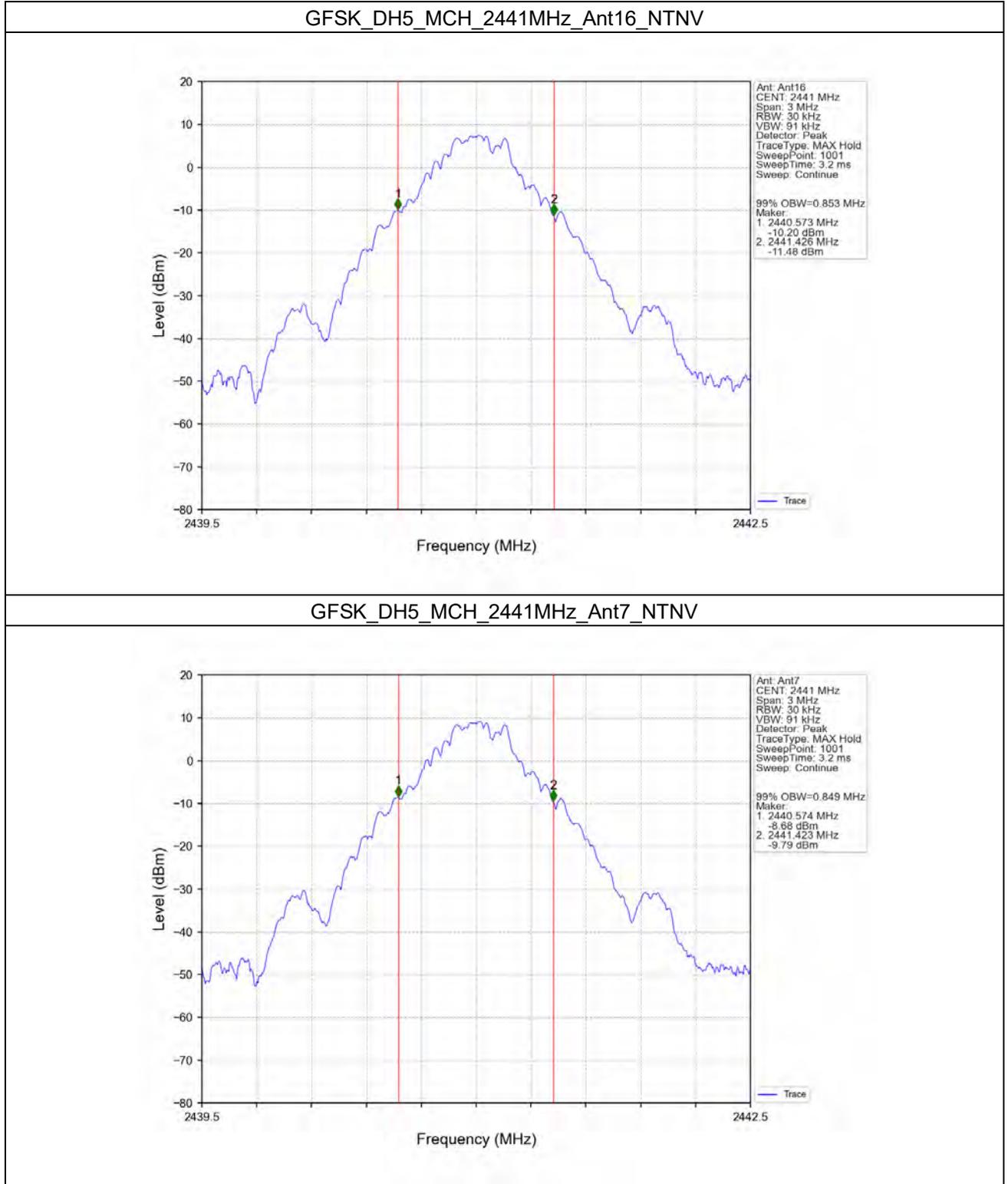
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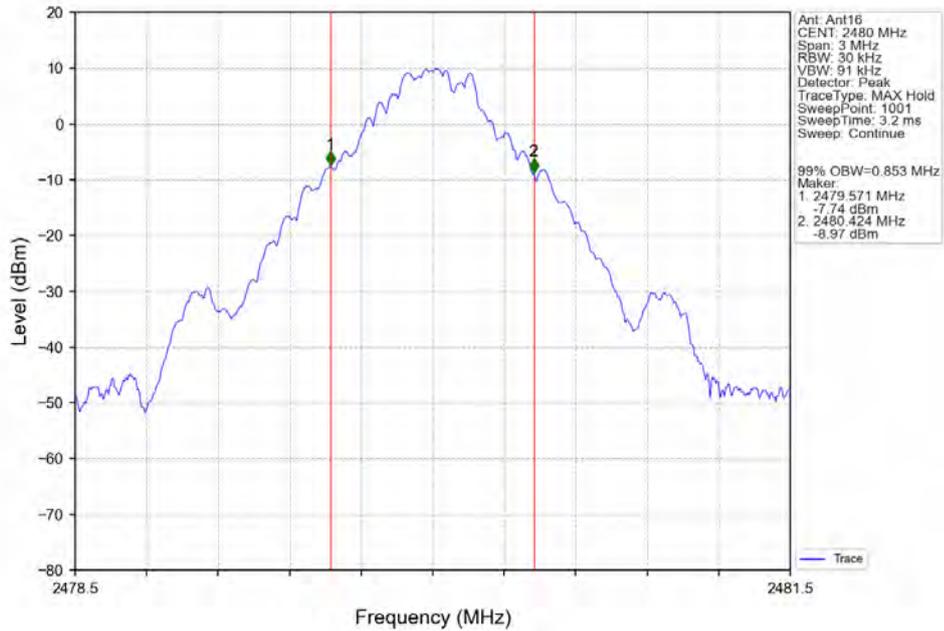
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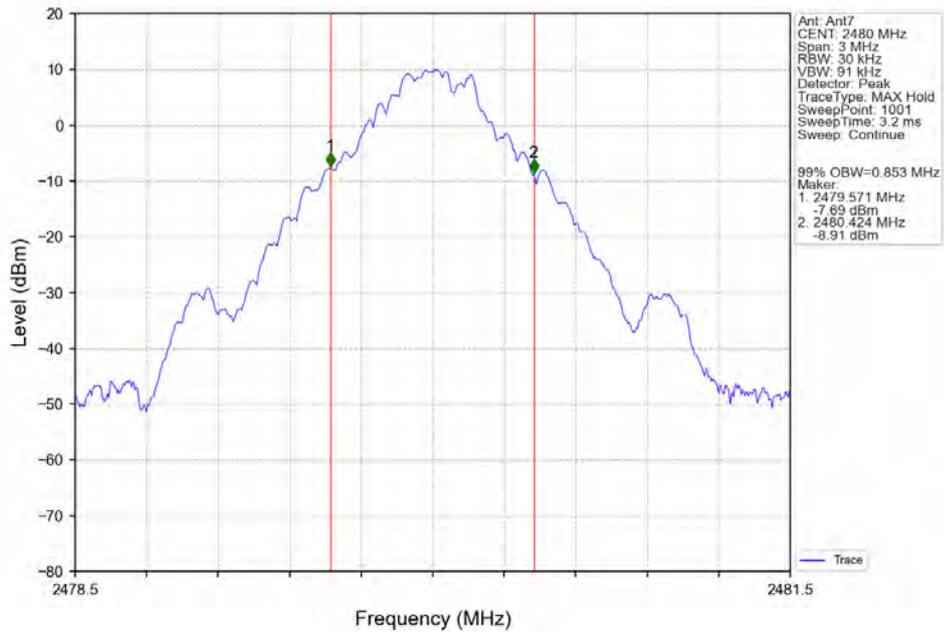


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GFSK_DH5_HCH_2480MHz_Ant16_NTNV



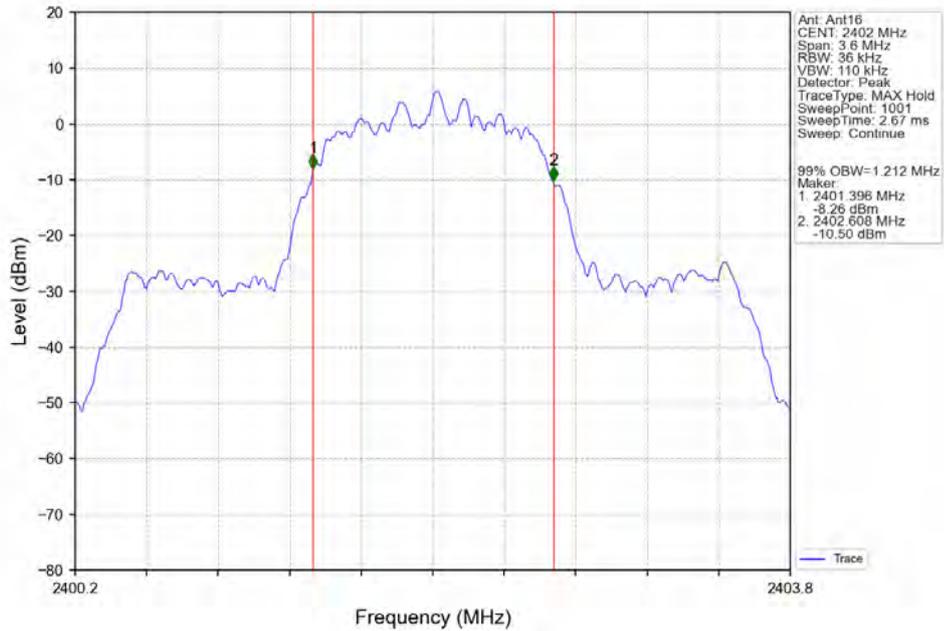
GFSK_DH5_HCH_2480MHz_Ant7_NTNV



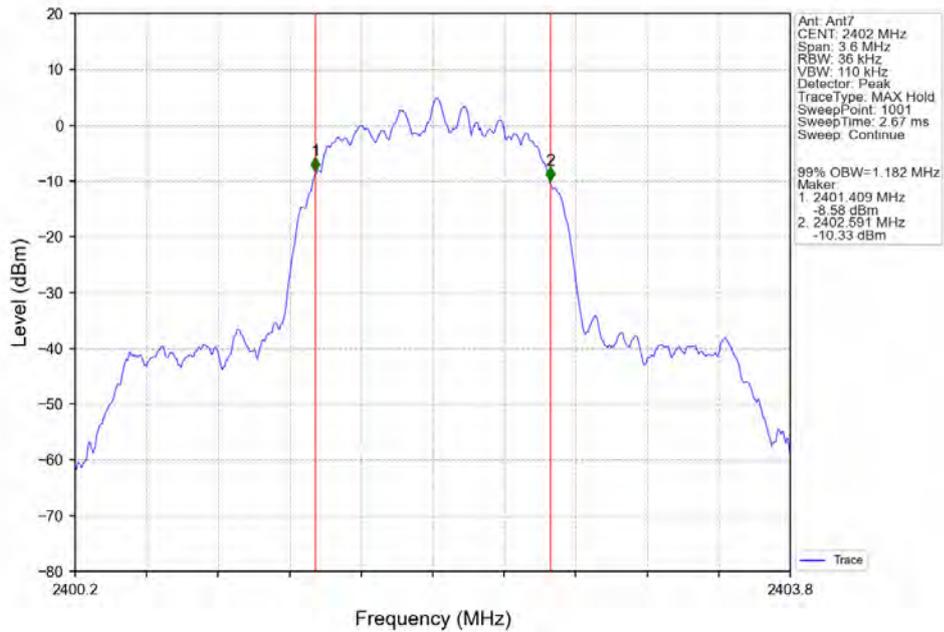
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Pi/4DQPSK_2DH5_LCH_2402MHz_Ant16_NTNV



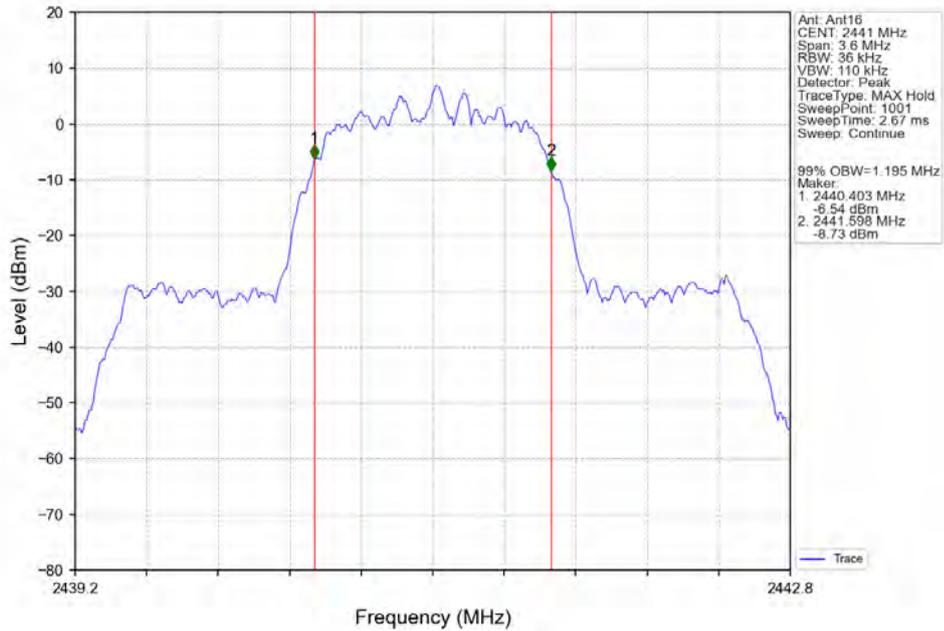
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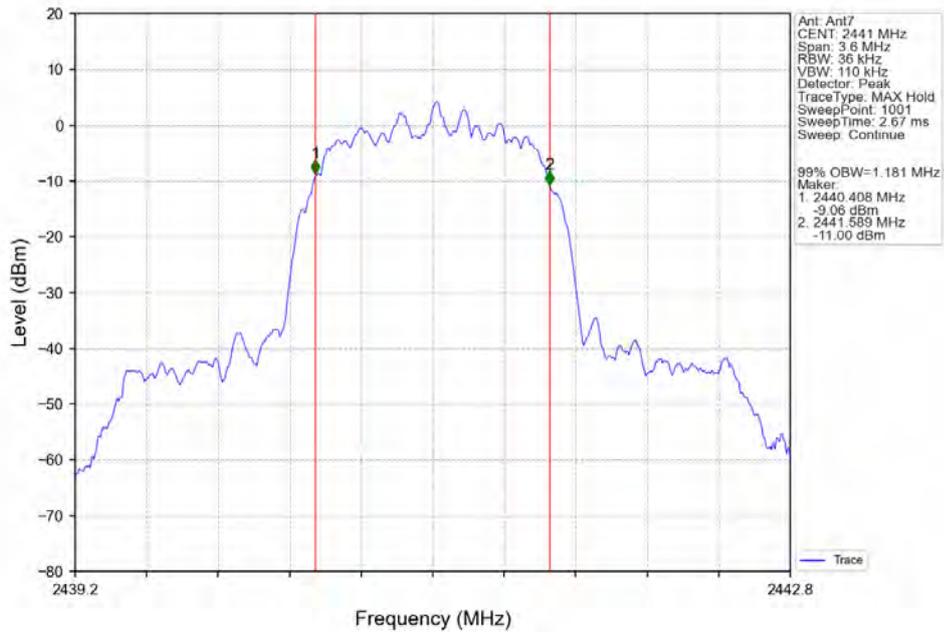
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Pi/4DQPSK_2DH5_MCH_2441MHz_Ant16_NTNV

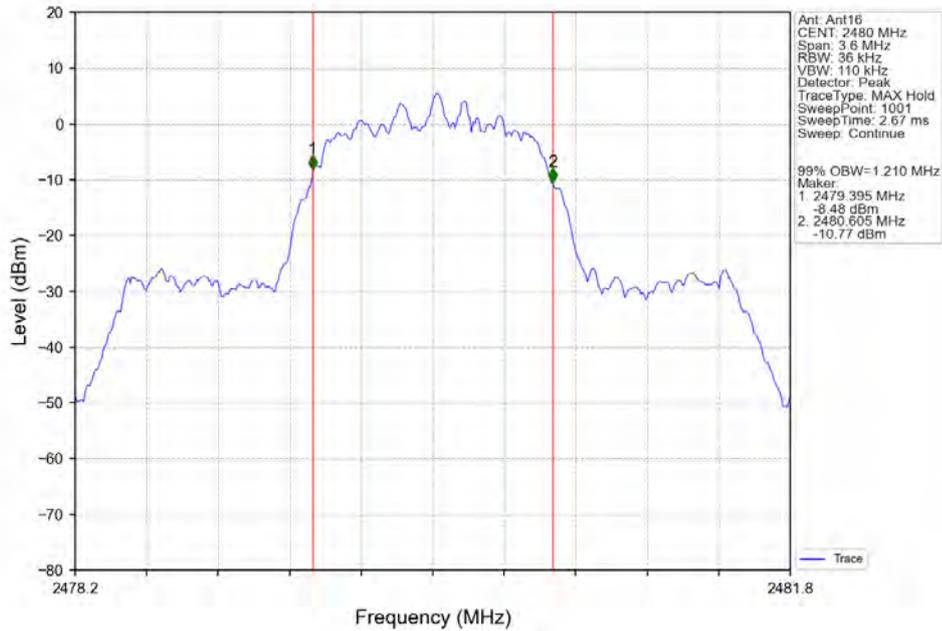


Pi/4DQPSK_2DH5_MCH_2441MHz_Ant7_NTNV

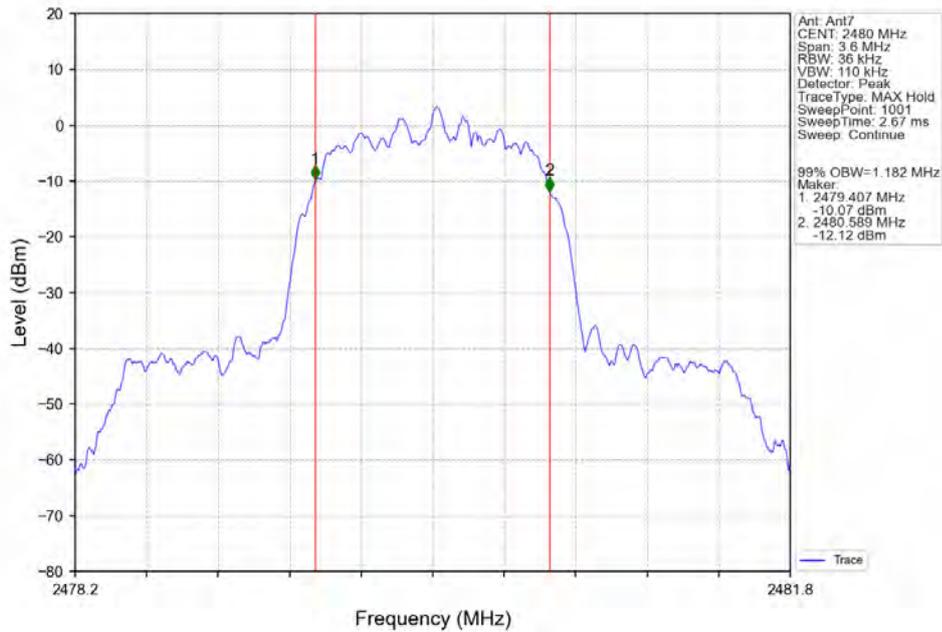


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Pi/4DQPSK_2DH5_HCH_2480MHz_Ant16_NTNV

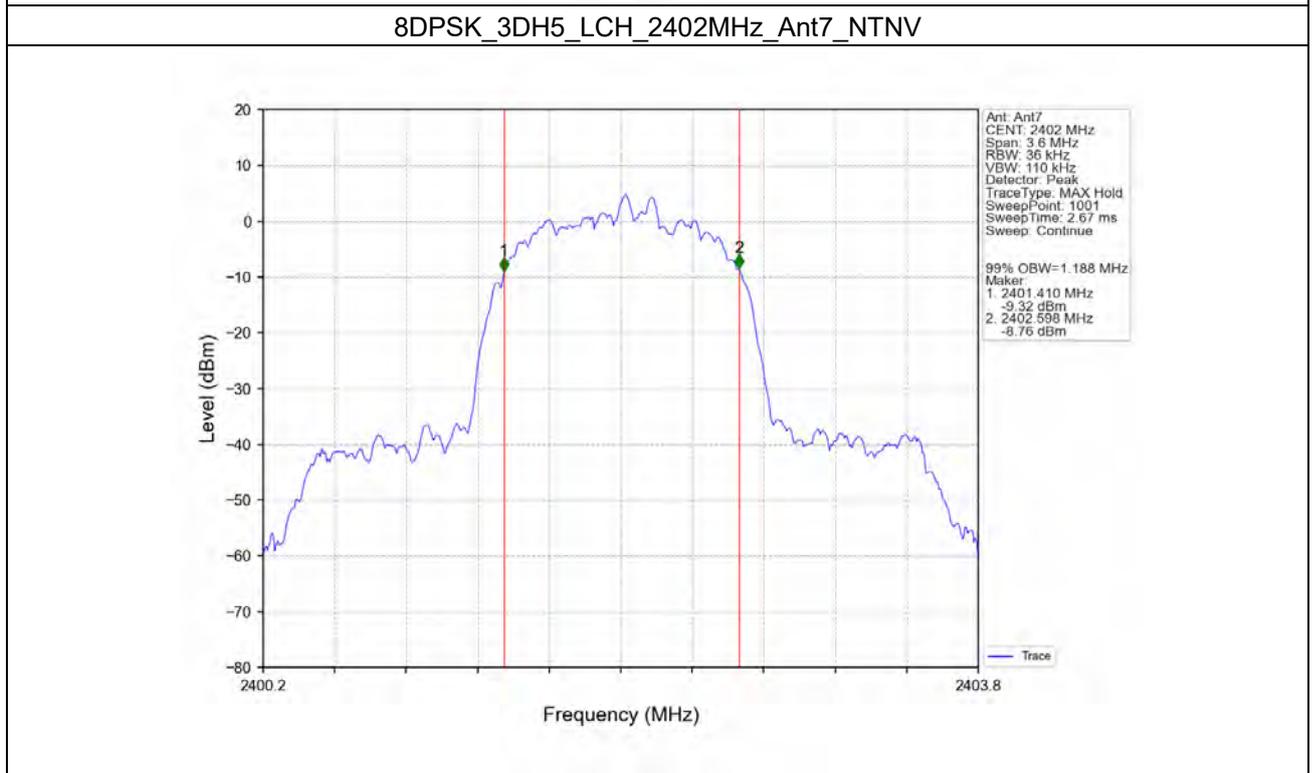
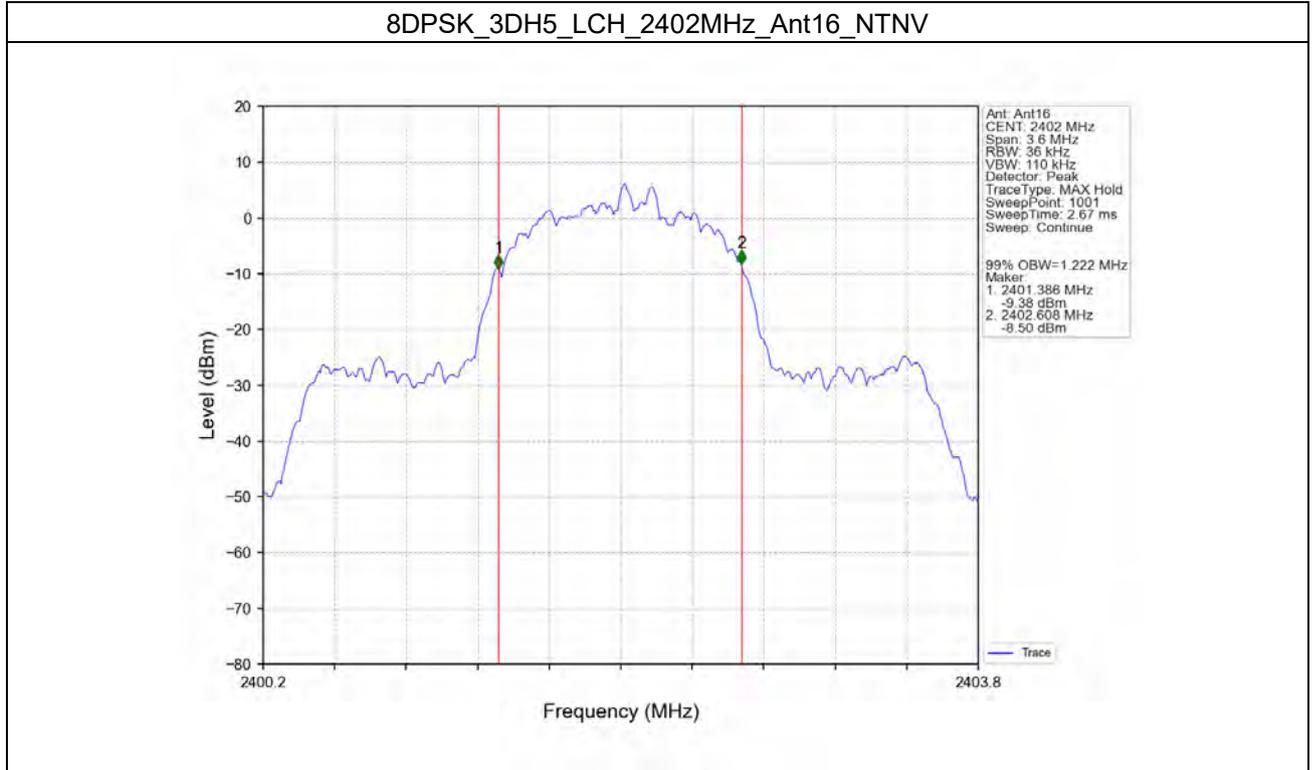


Pi/4DQPSK_2DH5_HCH_2480MHz_Ant7_NTNV



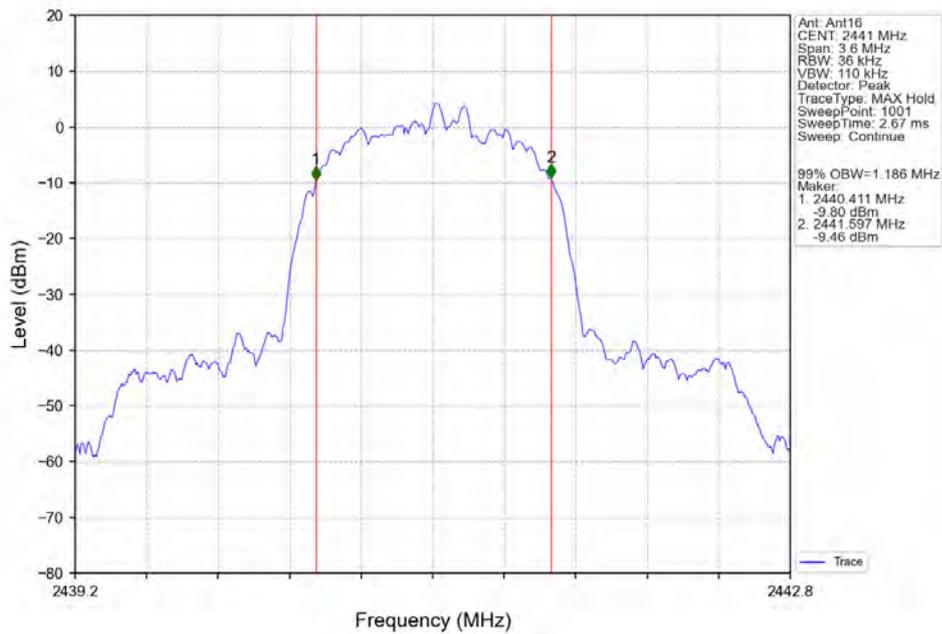
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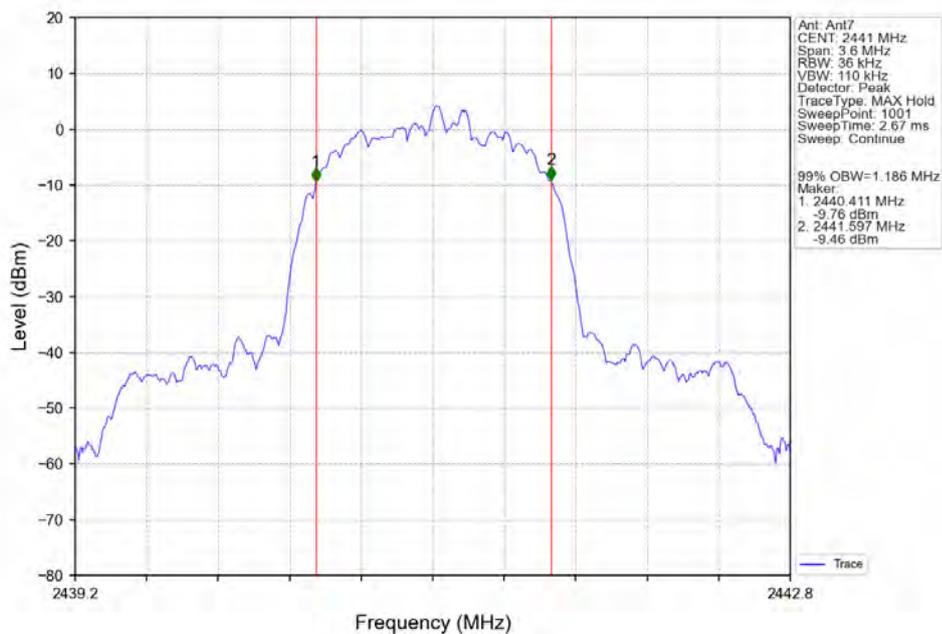


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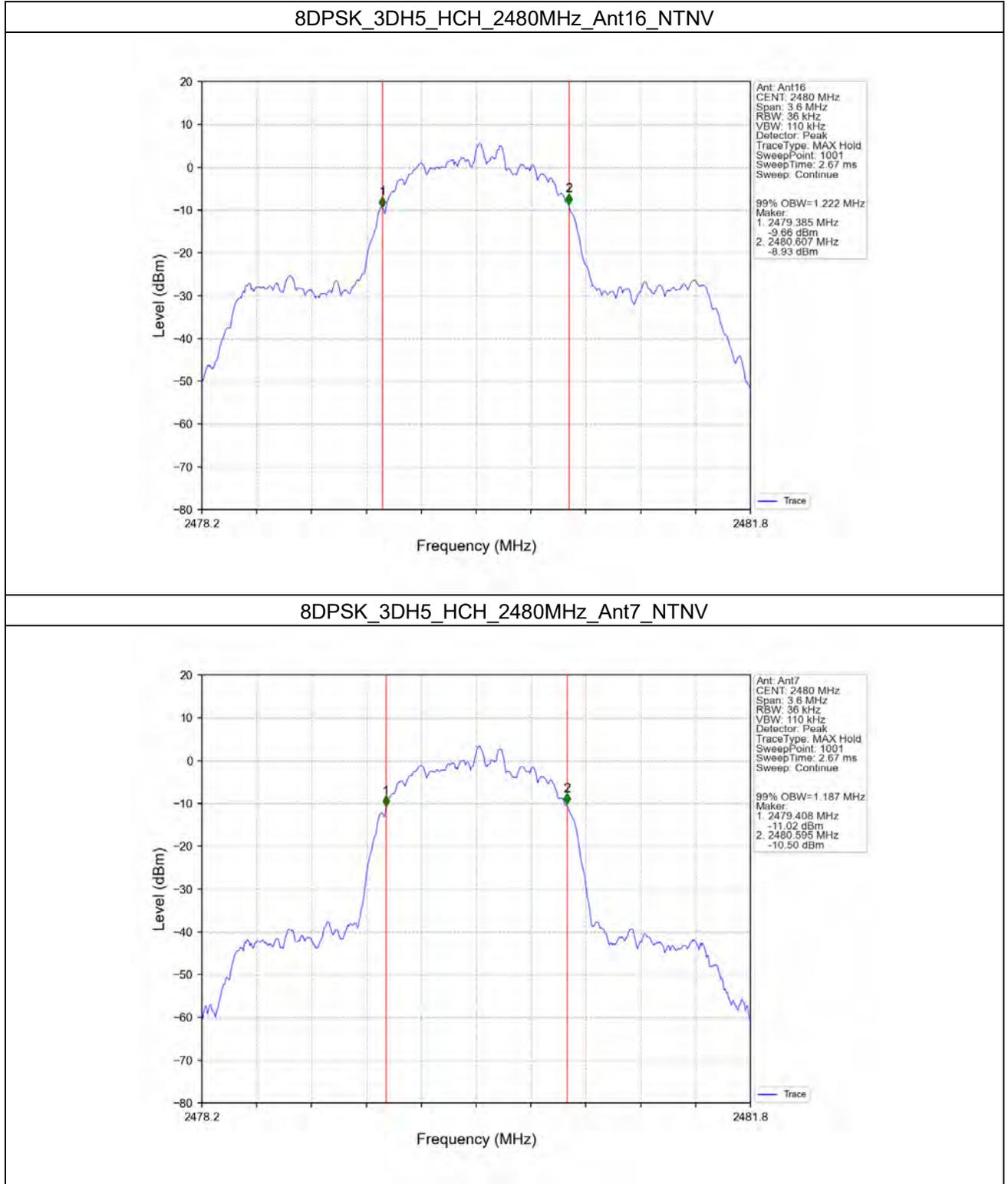
8DPSK_3DH5_MCH_2441MHz_Ant16_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant7_NTNV



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