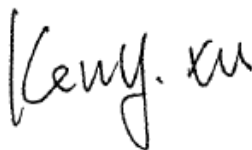


TEST REPORT

Application No.: SZCR2511004861AT
Applicant: Daiso Industries Co., Ltd.
Address of Applicant: 1-4-14 Saijoyoshiyukihigashi, Higashihiroshima-shi, Hiroshima 739-8501, Japan
Manufacturer: GUANGDONG BAOLI ELECTRONIC CO.,LTD
Address of Manufacturer: Room 301, Building 7, No. 57, Chashan Jinshan Road, Chashan Town, Dongguan City, Guangdong Province, China
Factory: GUANGDONG BAOLI ELECTRONIC CO.,LTD
Address of Factory: Room 301, Building 7, No. 57, Chashan Jinshan Road, Chashan Town, Dongguan City, Guangdong Province, China
Equipment Under Test (EUT):
EUT Name: True Wireless Earphone
Model No.: OWS002
Trade Mark: 
FCC ID: 2BCCJ-DAISOOWS002
Standard(s) : 47 CFR Part 15, Subpart C 15.247
Date of Receipt: 2025-11-07
Date of Test: 2025-11-07 to 2025-11-19
Date of Issue: 2025-11-21

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

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



Keny Xu
EMC Laboratory Manager



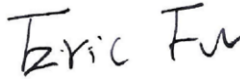
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SZEMC-TRF-01 Rev. A/1

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Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2025-11-21		Original

Authorized for issue by:				
				
		Bill Chen/Project Engineer		
				
		Eric Fu/Reviewer		



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2 Test Summary

Radio Spectrum Technical Requirement				
Item	Standard	Method	Requirement	Result
Antenna Requirement	47 CFR Part 15, Subpart C 15.247	N/A	47 CFR Part 15, Subpart C 15.203 & 15.247(b)(4)	Pass

Radio Spectrum Matter Part				
Item	Standard	Method	Requirement	Result
Radiated Emissions which fall in the restricted bands	47 CFR Part 15, Subpart C 15.247	ANSI C63.10 (2020) Section 6.10.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Below 1GHz		ANSI C63.10 (2020) Section 6.4,6.5	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Radiated Spurious Emissions Above 1GHz		ANSI C63.10 (2020) Section 6.6	47 CFR Part 15, Subpart C 15.205 & 15.209	Pass
Conducted Peak Output Power		ANSI C63.10 (2020) Section 7.8.5	47 CFR Part 15, Subpart C 15.247(b)(3)	Pass
Minimum 6dB Bandwidth		ANSI C63.10 (2020) Section 11.8.1	47 CFR Part 15, Subpart C 15.247a(2)	Pass
Power Spectrum Density		ANSI C63.10 (2020) Section 11.10.2	47 CFR Part 15, Subpart C 15.247(e)	Pass
Conducted Band Edges Measurement		ANSI C63.10 (2020) Section 6.10.4	47 CFR Part 15, Subpart C 15.247(d)	Pass
Conducted Spurious Emissions		ANSI C63.10 (2020) Section 11.11	47 CFR Part 15, Subpart C 15.247(d)	Pass



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4 General Information

4.1 Details of E.U.T.

Power supply:	Lithium Ion Battery: DC 3.7V 40mAh rechargeable battery which charged by charging case for left earbud and right earbud Lithium Ion Battery: DC 3.7V 300mAh rechargeable battery which charged by USB port for charging case
Cable Loss (for RF conducted test):	0.5dB
Operation Frequency:	2402MHz to 2480MHz
Modulation Type:	GFSK, pi/4DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Antenna Type:	Chip Antenna
Antenna Gain:	Left earbud:2.7dBi Right earbud:2.7dBi

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

4.2 Description of Support Units

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



4.3 Measurement Uncertainty

Test Item	Measurement Uncertainty
Radiated Emissions which fall in the restricted bands	$\pm 6.0\text{dB}$ (Below 1GHz); $\pm 4.6\text{dB}$ (Above 1GHz)
Radiated Spurious Emissions Below 1GHz	$\pm 6.0\text{dB}$ for 3m; $\pm 5.0\text{dB}$ for 10m
Radiated Spurious Emissions Above 1GHz	$\pm 4.6\text{dB}$ (1-18GHz); $\pm 4.8\text{dB}$ (18-40GHz)
Conducted Peak Output Power	$\pm 0.75\text{dB}$
Minimum 6dB Bandwidth	$\pm 3\%$
Power Spectrum Density	$\pm 2.84\text{dB}$
Conducted Band Edges Measurement	$\pm 0.75\text{dB}$
Conducted Spurious Emissions	$\pm 0.75\text{dB}$

Remark:

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

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



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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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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

5 Equipment List

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	2025-01-07	2026-01-06
Low Noise Amplifier 30M-8GHz	Tonscend	TAP30M8G30	SZ-WRG-M-050	2025-01-07	2026-01-06
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	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

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	2025-07-25	2026-07-24
BiConiLog Antenna	ETS-LINDGREN	3142C	SEM003-01	2025-08-29	2027-08-28
Pre-Amplifier	Agilent Technologies	8447D	SEM005-01	2025-03-04	2026-03-03
Measurement Software	AUDIX	e3 V8.2014-6-27	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM025-01	2025-07-05	2026-07-04



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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	2025-01-07	2026-01-06
Low Noise Amplifier 1G-18GHz	Tonscend	TAP01018050	SZ-WRG-M-051	2025-01-07	2026-01-06
Low Noise Amplifier 18G-40GHz	Tonscend	TAP18040048	SZ-WRG-M-052	2025-01-08	2026-01-07
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	2025-01-06	2028-01-05
Humidity and Temperature Indicator	deli	8838	SEM002-46	2025-07-23	2026-07-22

RF Conducted Test					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Power Sensor	TST PASS	TSPS2023R	SEM009-26	2025-03-04	2026-03-03
Power Sensor	KEYSIGHT	U2021XA	SEM009-16	2025-03-04	2026-03-03
DC Power Supply	Chroma	62012P-80-60	SEM011-11	2025-07-24	2026-07-23
MXA Signal Analyzer	KEYSIGHT	N9020A	SEM004-19	2025-03-04	2026-03-03
Measurement Software	TST PASS	TST PASS V2.0	N/A	N/A	N/A
Coaxial Cable	SGS	N/A	SEM031-01	2025-07-05	2026-07-04
Attenuator	Huber+Suhner	6620_SMA-50-1	SEM021-09	2025-03-03	2026-03-02

General used equipment					
Equipment	Manufacturer	Model No.	Inventory No.	Cal Date	Cal Due Date
Humidity/ Temperature Indicator	deli	8838	SEM002-32	2025-07-23	2026-07-22
Humidity/ Temperature Indicator	deli	8838	SEM002-33	2025-07-23	2026-07-22
Barometer	Changchun Meteorological Industry Factory	DYM3	SEM002-01	2025-03-03	2026-03-02



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6 Radio Spectrum Technical Requirement

6.1 Antenna Requirement

6.1.1 Test Requirement:

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

6.1.2 Conclusion

Standard Requirement:

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

15.247(b) (4) requirement:

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

EUT Antenna:

The antenna is integrated on the main PCB and no consideration of replacement. The best case gain of the antenna is Left earbud:2.7dBi and Right earbud:2.7dBi.

Antenna location: Refer to internal photo.



7 Radio Spectrum Matter Test Results

7.1 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 (2020) Section 6.10.5
 Measurement Distance: 3m
 Test Engineer: Xing Guo

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.

7.1.1 E.U.T. Operation

Operating Environment:

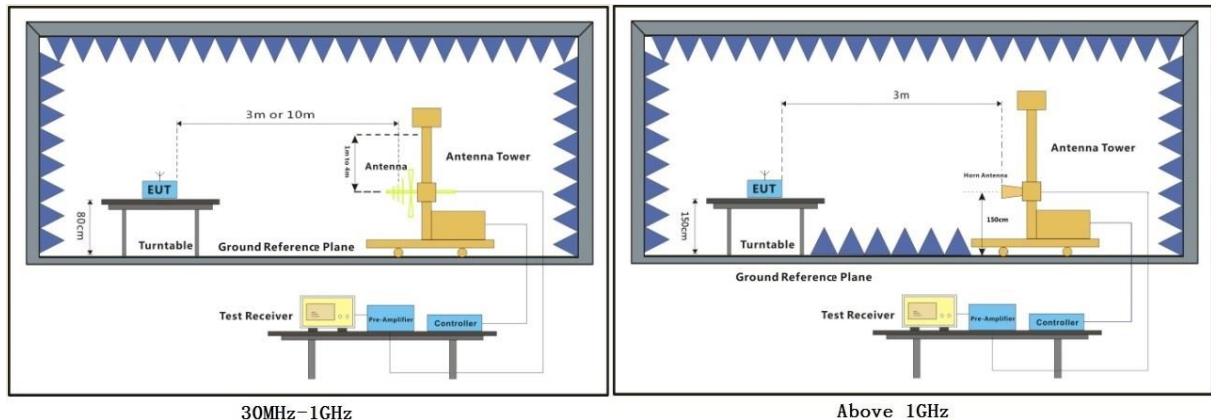
Temperature: 20.1 °C Humidity: 46.7 % RH Atmospheric Pressure: 1020 mbar



7.1.2 Test Mode Description

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

7.1.3 Test Setup Diagram



7.1.4 Measurement Procedure and Data

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

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

Remark 2: For frequencies above 1GHz, the field strength limits are based on average limits. However, the peak field strength of any emission shall not exceed the maximum permitted average limits specified above by more than 20 dB under any condition of modulation. For the emissions whose peak level is lower than the average limit, only the peak measurement is shown in the report.

Remark 3: The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.

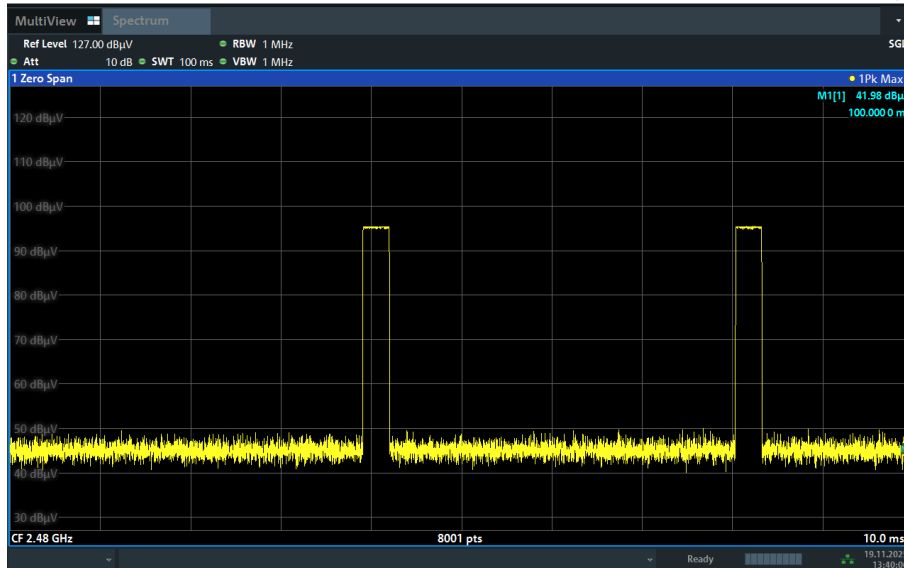
Remark 4: For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $< 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



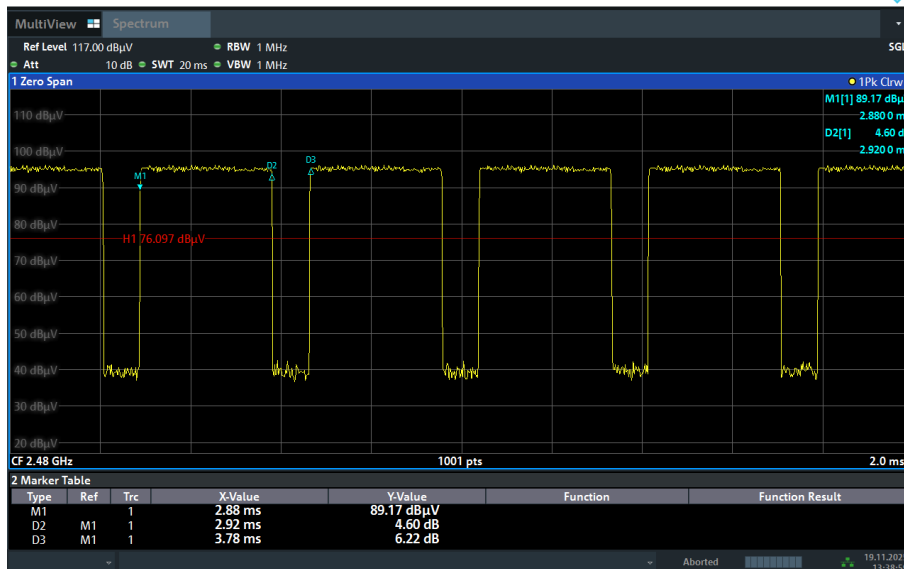
Test mode: 00

Average value:

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge(基频)	2倍频	3倍频	4倍频	5倍频	6倍频	7倍频	8倍频	9倍频	10倍频
DH5	2	2.9	0.06	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73
2DH5	2	2.92	0.06	-18.48	-21.03	-22.08	-22.66	-23.03	-23.29	-23.47	-23.61	-23.72	-23.81
3DH5	2	2.92	0.06	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65



13:40:06 19.11.2025



13:39:00 19.11.2025

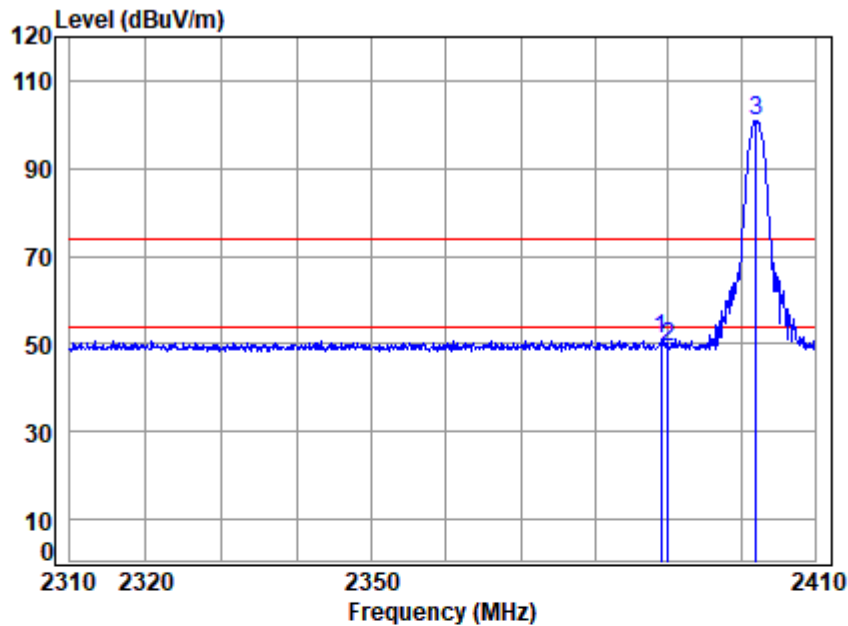
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Report No.: SZCR251100486102

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Test mode: 00_3DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

Mode : 2402 Band edge

: BT 3DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2388.951	6.82	27.46	30.69	47.56	51.15	74.00	-22.85	peak
2	2390.000	6.83	27.46	30.69	45.80	49.40	74.00	-24.60	peak
3 pp	2402.000	6.84	27.50	30.69	97.30	100.95	74.00	26.95	peak



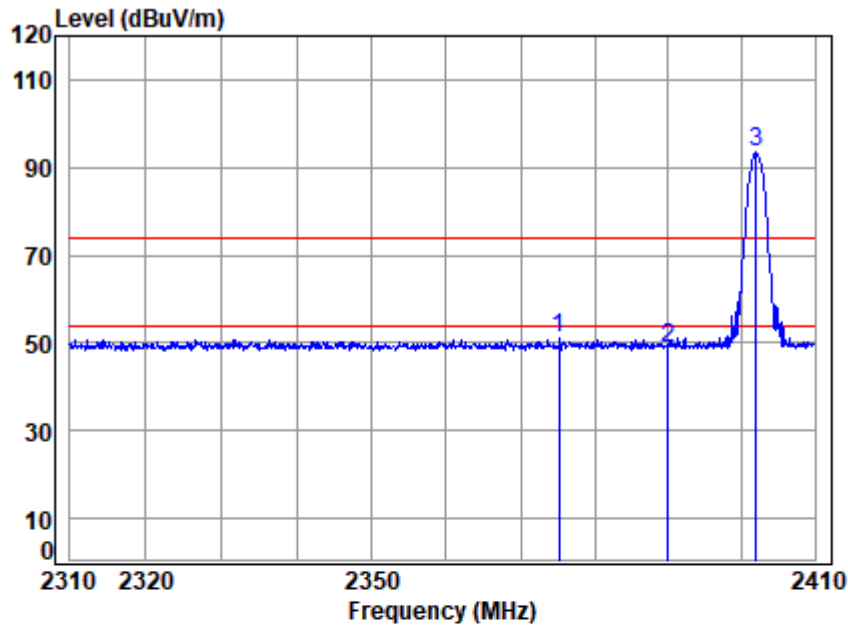
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Test mode: 00_3DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2402 Band edge

: BT 3DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2375.221	6.82	27.40	30.68	47.44	50.98	74.00	-23.02	peak
2	2390.000	6.83	27.46	30.69	45.40	49.00	74.00	-25.00	peak
3 pp	2402.000	6.84	27.50	30.69	89.67	93.32	74.00	19.32	peak



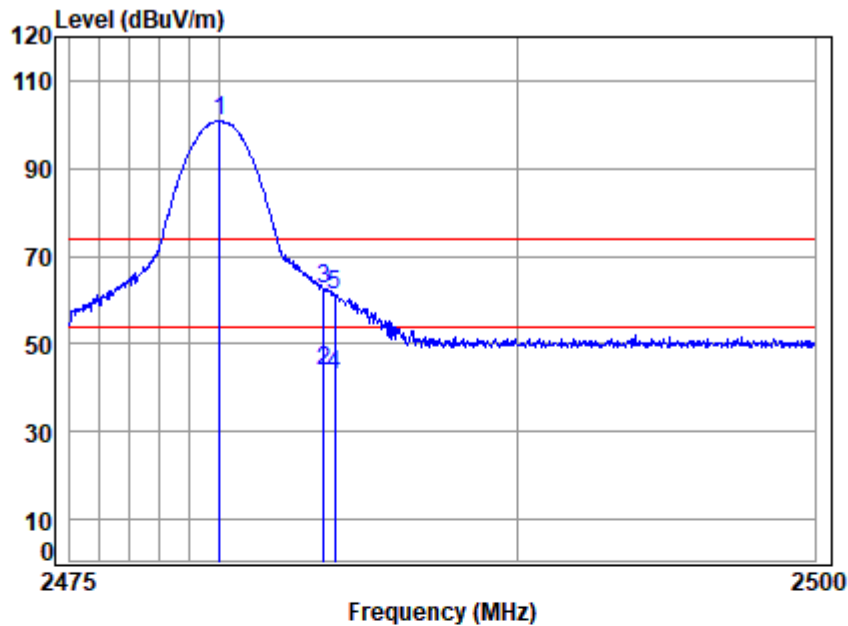
SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251100486102

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Test mode: 00_3DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

Mode : 2480 Band edge

: BT 3DH5

		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	7.38	27.78	30.71	96.38	100.83	74.00	26.83	peak
2 av	2483.500	7.40	27.80	30.71	39.46	43.95	54.00	-10.05	Average
3	2483.500	7.40	27.80	30.71	58.11	62.60	74.00	-11.40	peak
4	2483.871	7.40	27.80	30.71	38.20	42.69	54.00	-11.31	Average
5	2483.871	7.40	27.80	30.71	56.85	61.34	74.00	-12.66	peak



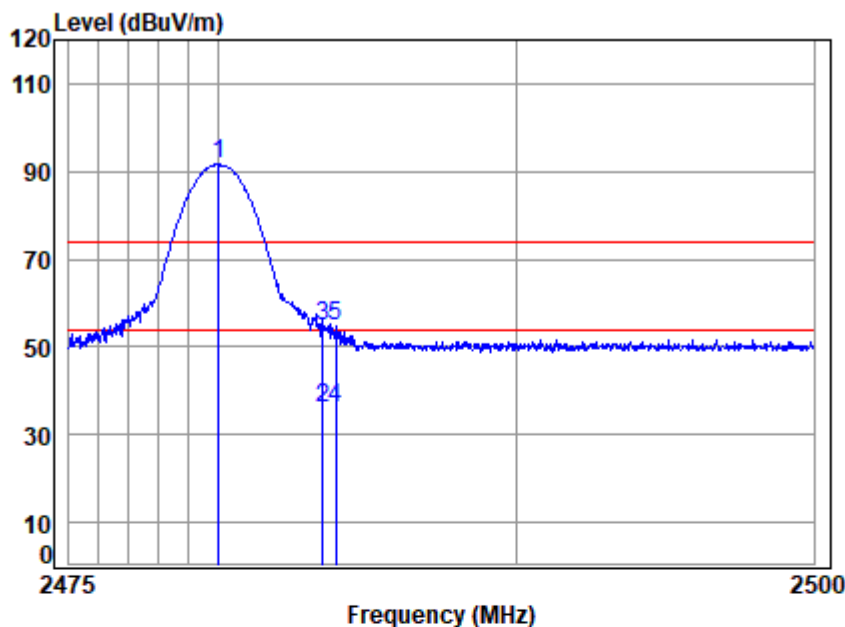
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Test mode: 00_3DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2480 Band edge

: BT 3DH5

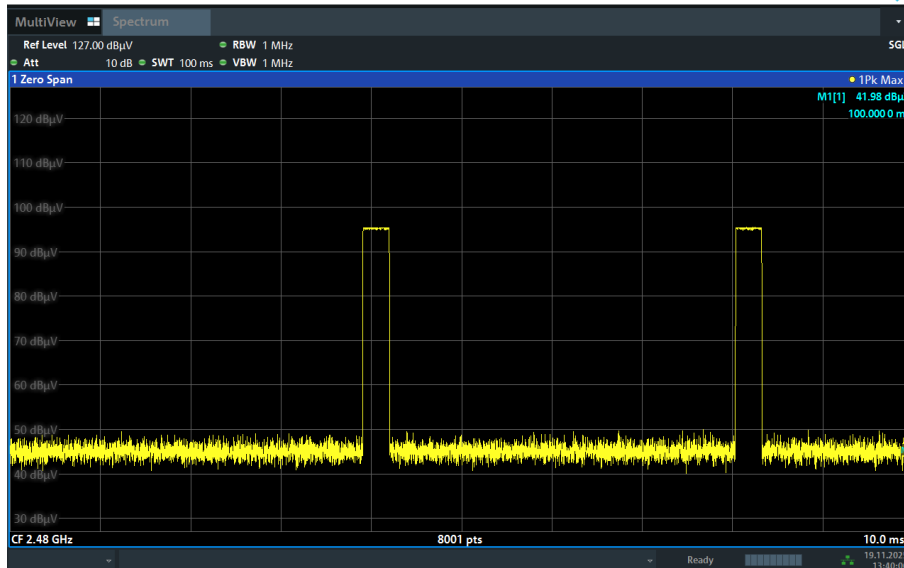
		Cable	Ant	Preamp	Read	Limit	Over	
Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1 pp 2480.000	7.38	27.78	30.71	87.14	91.59	74.00	17.59	peak
2 av 2483.500	7.40	27.80	30.71	31.49	35.98	54.00	-18.02	Average
3 2483.500	7.40	27.80	30.71	50.14	54.63	74.00	-19.37	peak
4 2483.921	7.40	27.80	30.71	31.44	35.93	54.00	-18.07	Average
5 2483.921	7.40	27.80	30.71	50.09	54.58	74.00	-19.42	peak



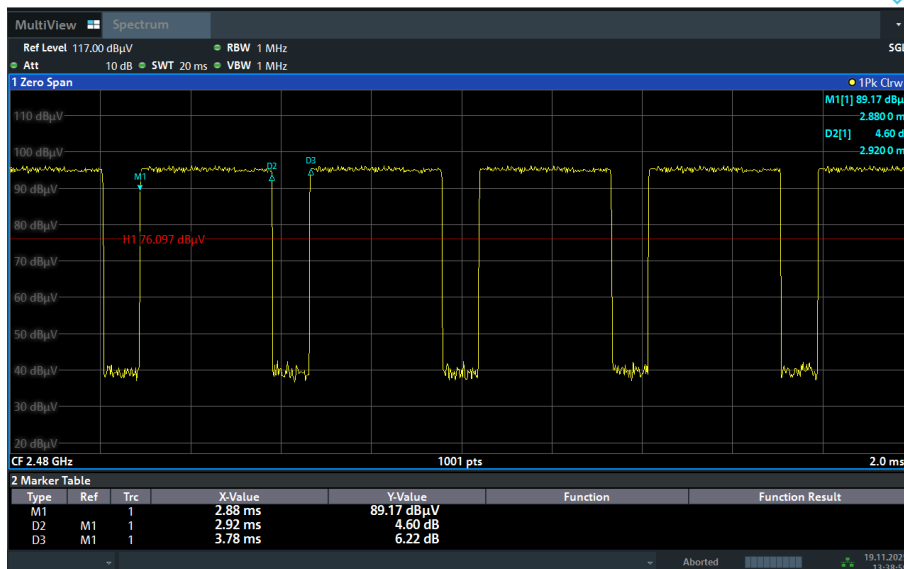
Test mode: 02

Average value:

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge(基频)	2倍频	3倍频	4倍频	5倍频	6倍频	7倍频	8倍频	9倍频	10倍频
DH5	2	2.9	0.06	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73
2DH5	2	2.92	0.06	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65



13:40:06 19.11.2025



13:39:00 19.11.2025

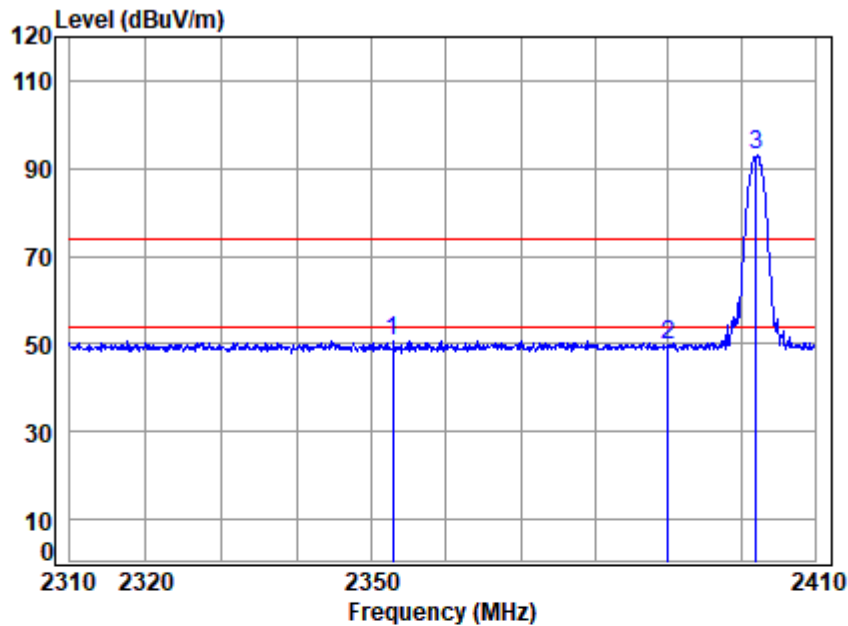
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251100486102

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Test mode: 02_2DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

Mode : 2402 Band edge

: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2352.880	6.81	27.31	30.68	47.40	50.84	74.00	-23.16	peak
2	2390.000	6.83	27.46	30.69	46.27	49.87	74.00	-24.13	peak
3 pp	2402.000	6.84	27.50	30.69	89.33	92.98	74.00	18.98	peak



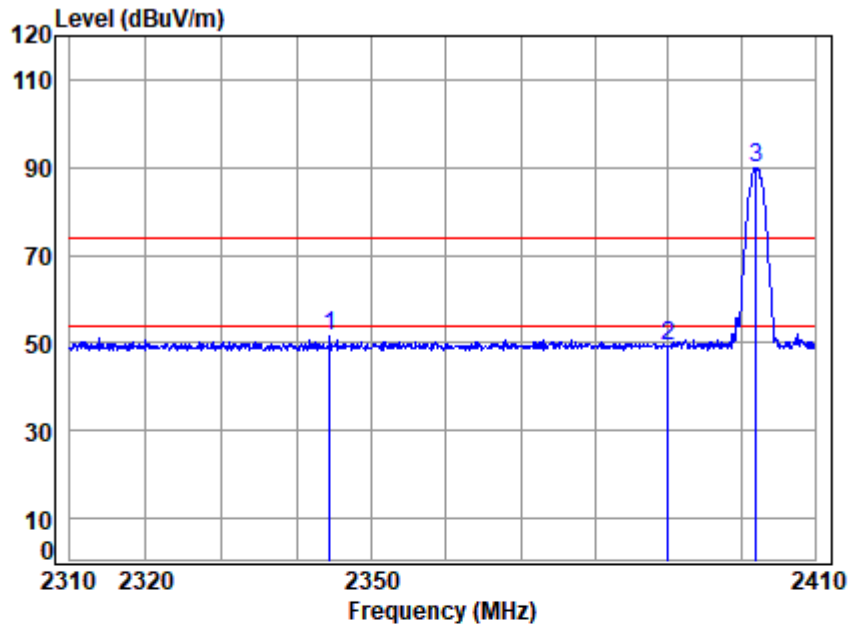
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Test mode: 02_2DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

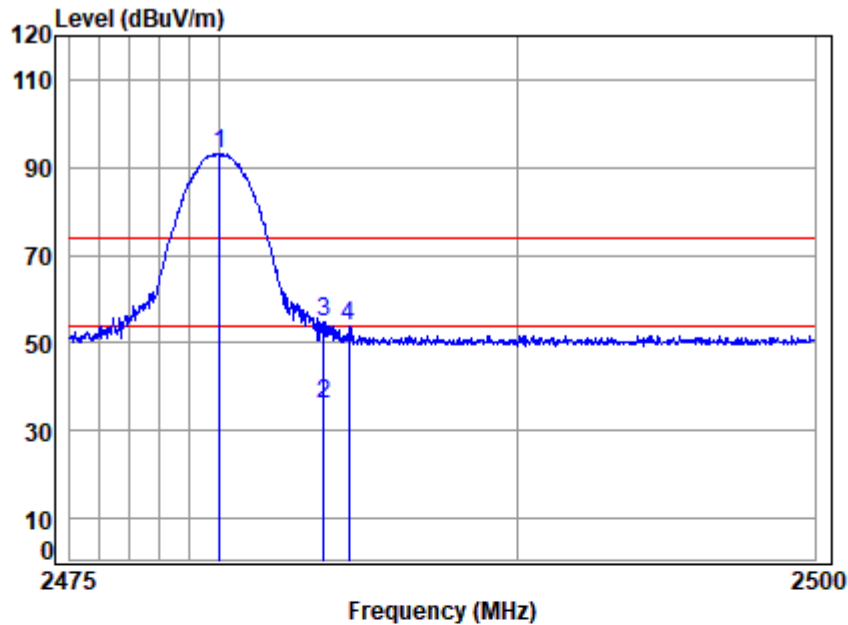
Mode : 2402 Band edge

: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	2344.420	6.80	27.29	30.68	48.24	51.65	74.00	-22.35	peak
2	2390.000	6.83	27.46	30.69	45.58	49.18	74.00	-24.82	peak
3 pp	2402.000	6.84	27.50	30.69	86.31	89.96	74.00	15.96	peak



Test mode: 02_2DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

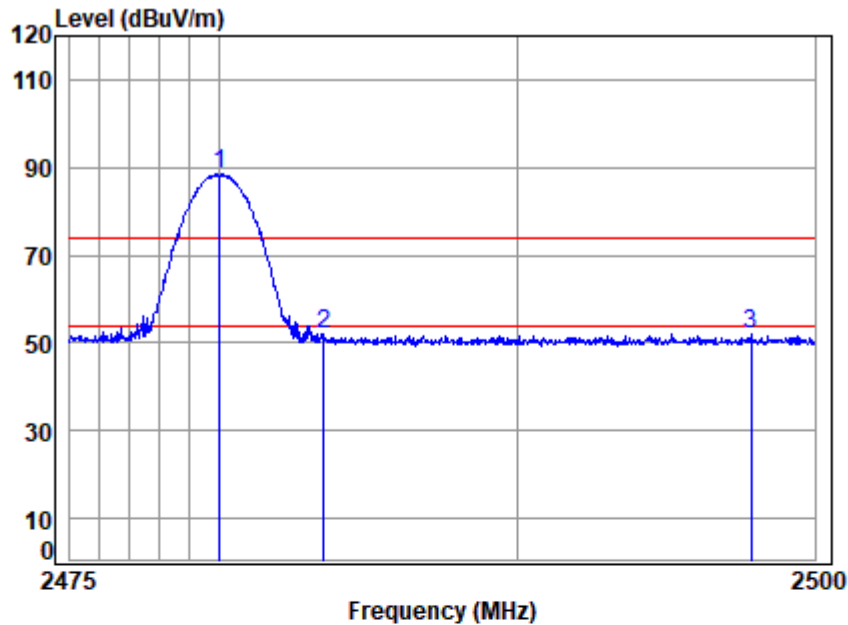
Mode : 2480 Band edge

: BT 2DH5

		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	7.38	27.78	30.71	88.67	93.12	74.00	19.12	peak
2 av 2483.500	7.40	27.80	30.71	31.42	35.91	54.00	-18.09	Average
3 2483.500	7.40	27.80	30.71	50.07	54.56	74.00	-19.44	peak
4 2484.321	7.41	27.81	30.71	49.40	53.91	74.00	-20.09	peak



Test mode: 02_2DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2480 Band edge

: BT 2DH5

		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	7.38	27.78	30.71	84.10	88.55	74.00	14.55	peak
2 2483.500	7.40	27.80	30.71	47.32	51.81	74.00	-22.19	peak
3 2497.840	7.50	27.89	30.71	47.26	51.94	74.00	-22.06	peak



7.2 Radiated Spurious Emissions Below 1GHz

Test Requirement 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.4,6.5
 Measurement Distance: 3m
 Test Engineer: Sean Xiao

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

7.2.1 E.U.T. Operation

Operating Environment:

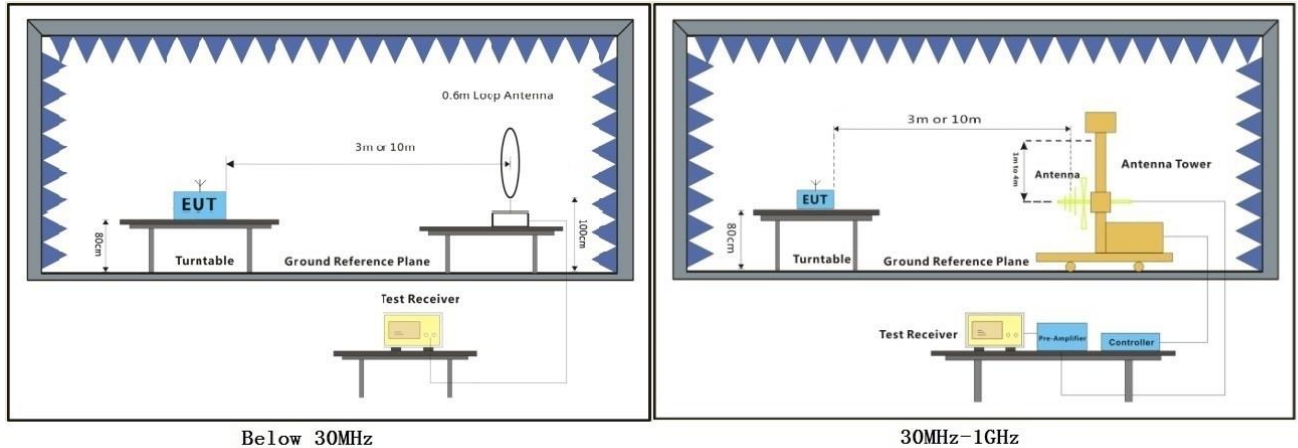
Temperature: 23.4 °C Humidity: 42.5 % RH Atmospheric Pressure: 1020 mbar

7.2.2 Test Mode Description

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



7.2.3 Test Setup Diagram



7.2.4 Measurement Procedure and Data

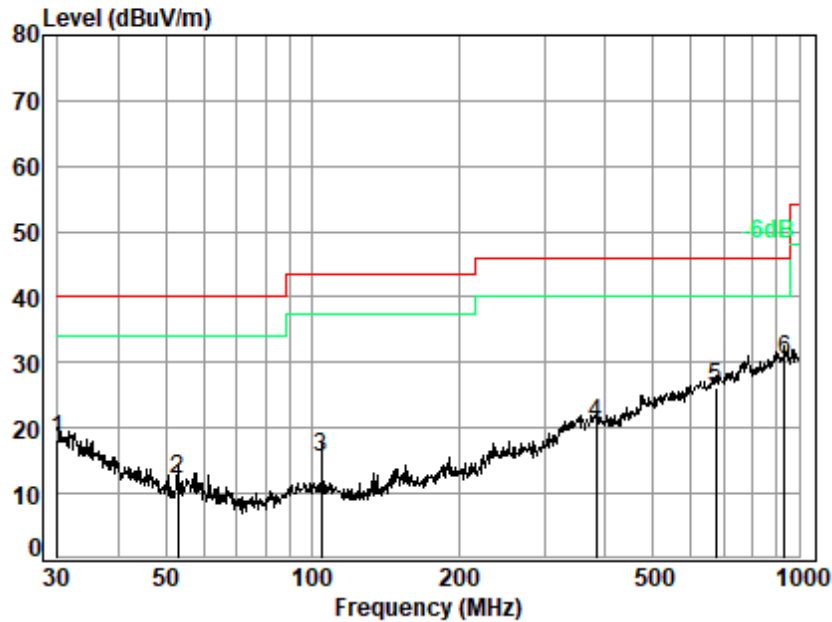
- For below 1GHz, the EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter semi-anechoic chamber. The table was rotated 360 degrees to determine the position of the highest radiation.
- The EUT was set 3 meters away from the interference-receiving antenna, which was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

Remark:

- Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
- Scan from 9kHz to 30MHz, the disturbance below 30MHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from the radiator which are attenuated more than 20dB below the limit need not be reported.



Test Mode: 00; Polarity: Horizontal

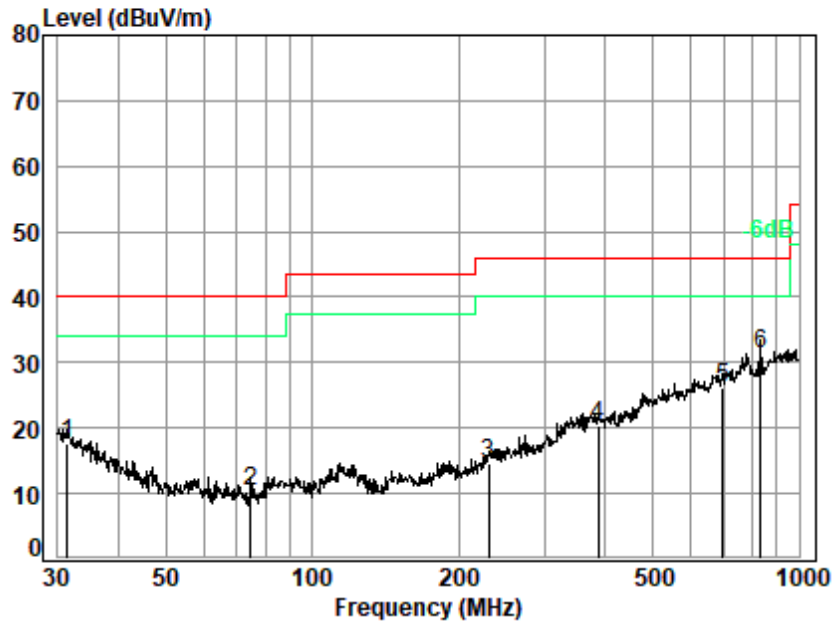


Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04861AT
Test Mode: 00

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level dBuV	Limit dBuV/m	Over Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dB	
1	30.000	21.20	0.74	27.65	23.84	18.13	40.00	-21.87 QP
2	52.945	12.30	0.91	27.63	26.73	12.31	40.00	-27.69 QP
3	104.536	12.21	1.25	27.61	29.65	15.50	43.50	-28.00 QP
4	382.588	20.90	2.43	27.71	24.92	20.54	46.00	-25.46 QP
5	675.208	25.71	3.34	27.89	24.96	26.12	46.00	-19.88 QP
6 q	935.546	28.18	4.05	26.76	24.99	30.46	46.00	-15.54 QP



Test Mode: 00; Polarity: Vertical

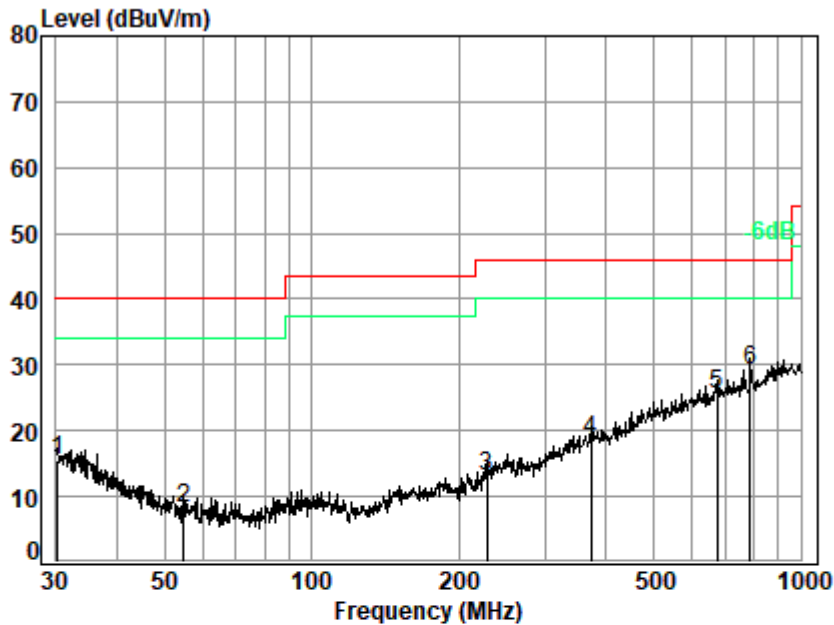


Site : chamber
Condition: 3m VERTICAL
Job No. : 04861AT
Test Mode: 00

	Ant	Cable	Preamp	Read		Limit	Over	
Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.399	20.55	0.75	27.65	24.10	17.75	40.00	-22.25 QP
2	74.657	10.38	1.04	27.61	26.68	10.49	40.00	-29.51 QP
3	230.099	16.46	1.84	27.70	23.98	14.58	46.00	-31.42 QP
4	386.634	20.85	2.45	27.72	24.65	20.23	46.00	-25.77 QP
5	696.857	25.88	3.40	27.84	24.72	26.16	46.00	-19.84 QP
6 q	833.317	26.50	3.79	27.38	28.46	31.37	46.00	-14.63 QP



Test Mode: 02; Polarity: Horizontal



Site : chamber
Condition: 3m HORIZONTAL
Job No. : 04861AT
Test Mode: 02

	Ant Freq	Cable Factor	Preamp Loss	Read Factor	Level	Limit	Over	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB
1	30.211	21.10	0.74	27.65	21.27	15.46	40.00	-24.54 QP
2	54.643	12.02	0.91	27.63	22.85	8.15	40.00	-31.85 QP
3	227.691	16.12	1.83	27.70	22.85	13.10	46.00	-32.90 QP
4	372.005	20.54	2.39	27.69	23.30	18.54	46.00	-27.46 QP
5	672.845	25.64	3.33	27.90	24.50	25.57	46.00	-20.43 QP
6 q	787.851	27.15	3.66	27.63	25.99	29.17	46.00	-16.83 QP



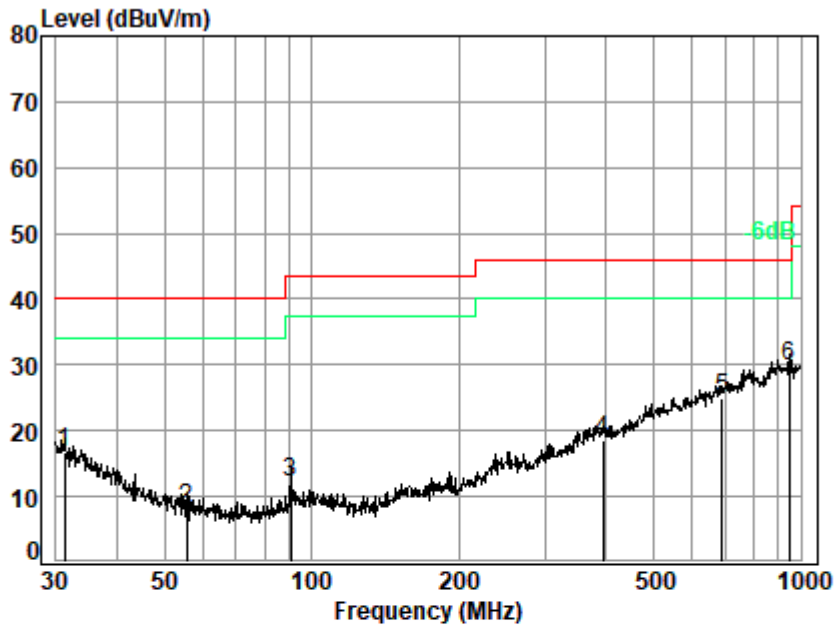
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Test Mode: 02; Polarity: Vertical



Site : chamber
Condition: 3m VERTICAL
Job No. : 04861AT
Test Mode: 02

		Ant	Cable	Preamp	Read		Limit	Over	
	Freq	Factor	Loss	Factor	Level	Level	Line	Limit	Remark
	MHz	dB/m	dB	dB	dBuV	dBuV/m	dBuV/m	dB	
1	31.289	20.60	0.75	27.65	23.13	16.83	40.00	-23.17	QP
2	55.609	11.89	0.91	27.63	23.17	8.34	40.00	-31.66	QP
3	90.537	11.77	1.18	27.60	26.88	12.23	43.50	-31.27	QP
4	394.855	20.70	2.47	27.74	23.24	18.67	46.00	-27.33	QP
5	689.565	25.69	3.38	27.86	23.70	24.91	46.00	-21.09	QP
6 q	945.440	28.26	4.07	26.70	24.04	29.67	46.00	-16.33	QP



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7.3 Radiated Spurious Emissions Above 1GHz

Test Requirement: 47 CFR Part 15, Subpart C 15.205 & 15.209
 Test Method: ANSI C63.10 (2020) Section 6.6
 Measurement Distance: 3m
 Test Engineer: Xing Guo

Limit:

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

7.3.1 E.U.T. Operation

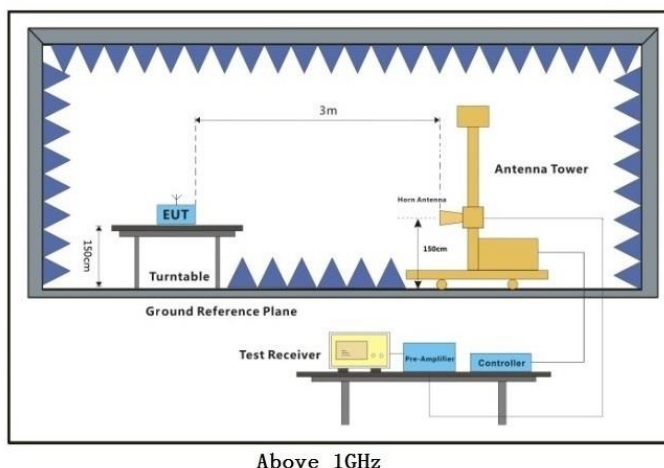
Operating Environment:

Temperature: 20.0 °C Humidity: 46.7 % 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(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.3.3 Test Setup Diagram



7.3.4 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 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:

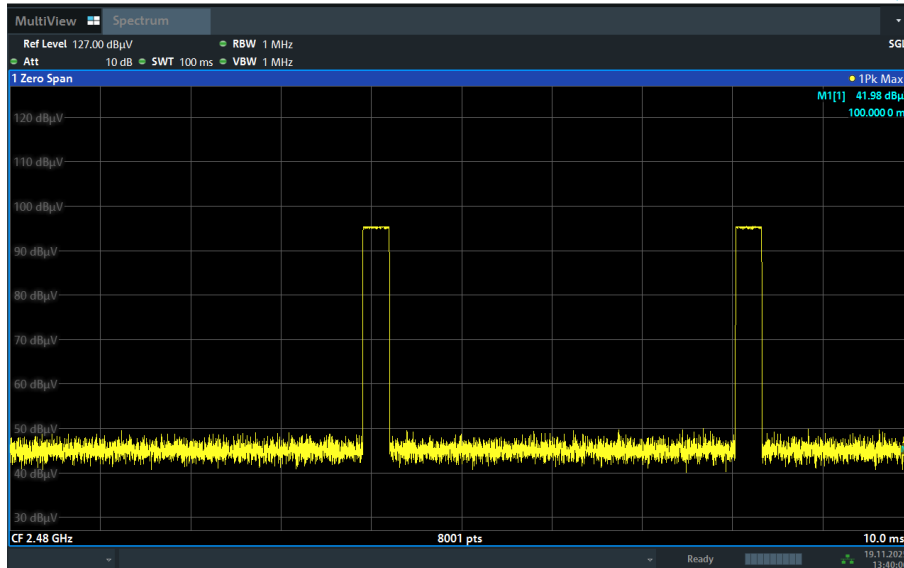
1. Level= Read Level+ Cable Loss+ Antenna Factor- Preamp Factor
2. Scan from 1GHz to 25GHz, the disturbance above 18GHz was very low. The points marked on above plots are the highest emissions could be found when testing, so only above points had been displayed. The amplitude of spurious emissions from 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.
4. The resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is 3MHz for Peak detection (PK) and Average detection (AV) at frequency above 1GHz.
- 5:For fundamental and harmonic signal measurement, the resolution bandwidth of test receiver/spectrum analyzer is 1MHz and the video bandwidth is $\geq 1/T$ (Duty cycle $\leq 98\%$) or 10Hz (Duty cycle $\geq 98\%$) for Average detection (AV) at frequency above 1GHz.



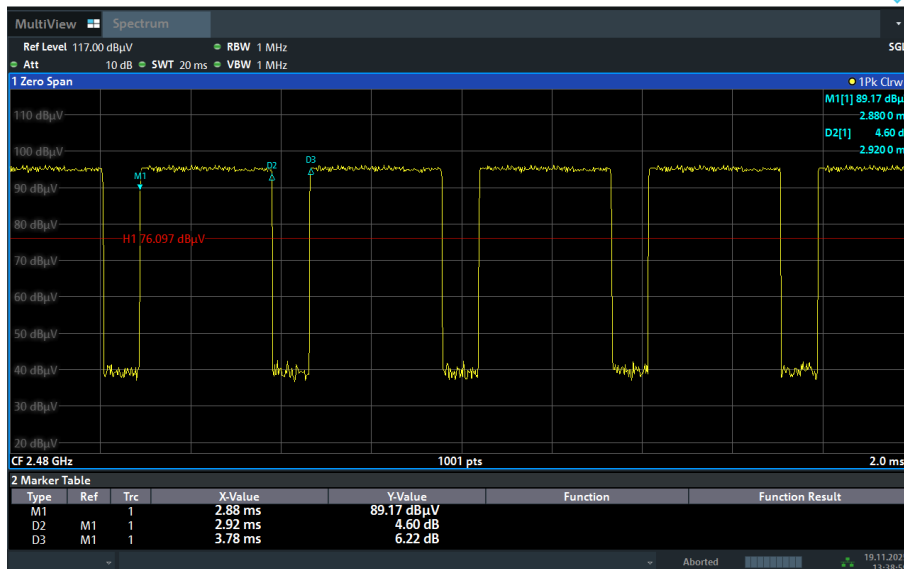
Test mode: 00

Average value:

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge(基频)	2倍频	3倍频	4倍频	5倍频	6倍频	7倍频	8倍频	9倍频	10倍频
DH5	2	2.9	0.06	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73
2DH5	2	2.92	0.06	-18.48	-21.03	-22.08	-22.66	-23.03	-23.29	-23.47	-23.61	-23.72	-23.81
3DH5	2	2.92	0.06	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65

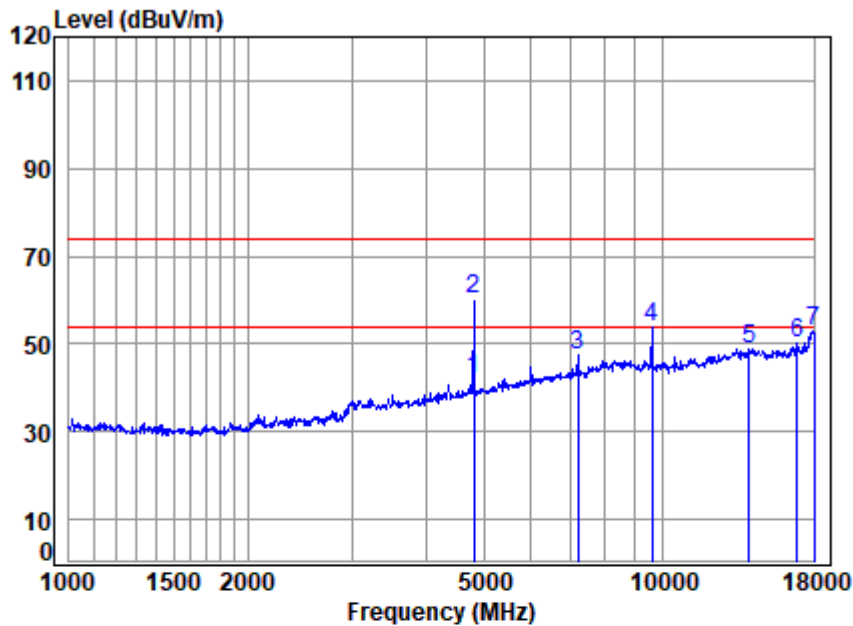


13:40:06 19.11.2025



13:39:00 19.11.2025

Test mode: 00_3DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

Mode : 2402 TX RSE

: BT 3DH5

		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	4804.110	8.90	31.92	55.41	56.39	41.80	54.00	-12.20	Average
2 pk	4804.110	8.90	31.92	55.41	75.04	60.45	74.00	-13.55	Peak
3	7200.309	11.10	36.60	56.74	56.42	47.38	74.00	-26.62	peak
4	9613.430	12.40	38.77	55.92	58.52	53.77	74.00	-20.23	peak
5	13997.930	16.53	39.90	54.50	46.97	48.90	74.00	-25.10	peak
6	16891.040	19.64	39.60	54.09	44.90	50.05	74.00	-23.95	peak
7	18000.000	18.64	43.80	54.20	44.88	53.12	74.00	-20.88	peak



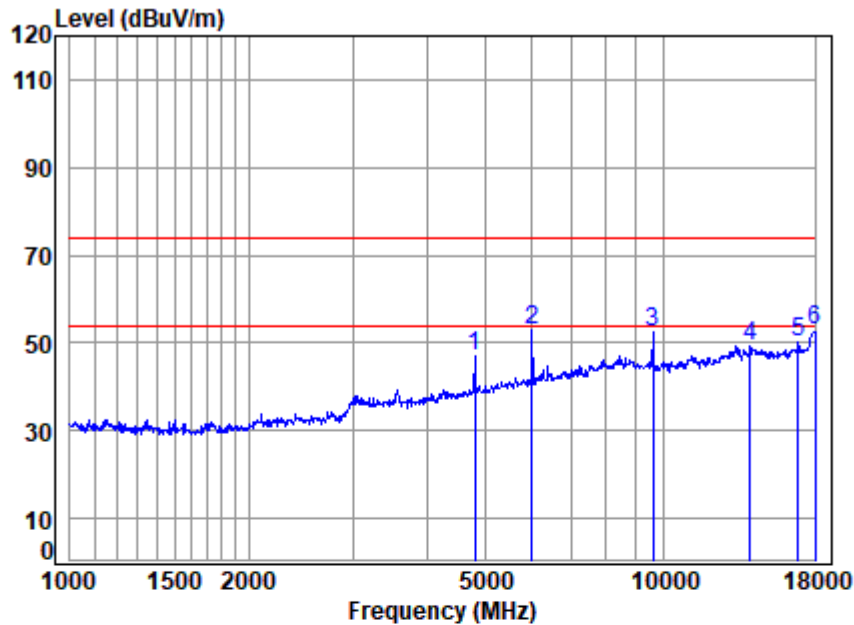
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Test mode: 00_3DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

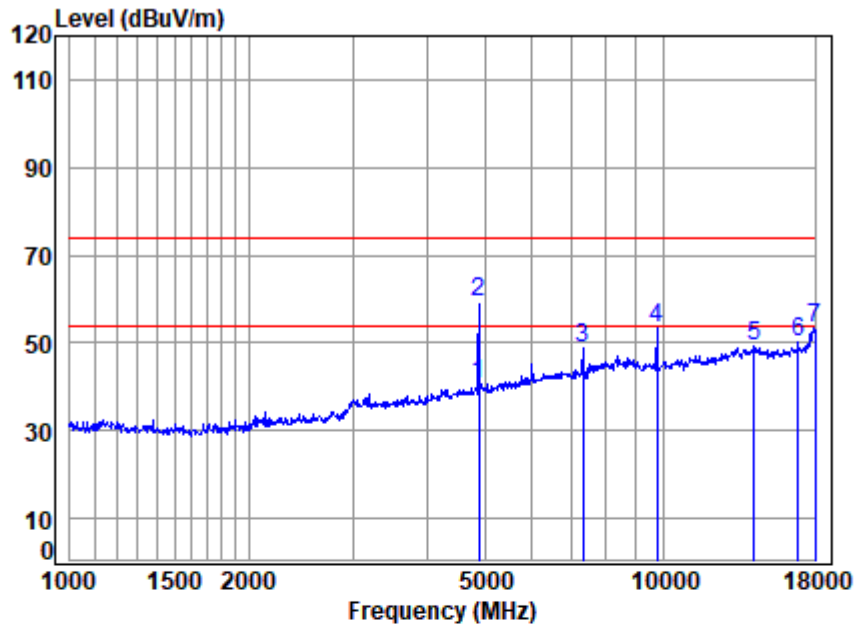
Mode : 2402 TX RSE

: BT 3DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.110	8.90	31.92	55.41	61.55	46.96	74.00	-27.04	Peak
2	pp 6001.626	10.05	33.80	55.90	65.02	52.97	74.00	-21.03	peak
3	9613.430	12.40	38.77	55.92	57.01	52.26	74.00	-21.74	peak
4	13997.930	16.53	39.90	54.50	47.56	49.49	74.00	-24.51	peak
5	16891.040	19.64	39.60	54.09	45.06	50.21	74.00	-23.79	peak
6	18000.000	18.64	43.80	54.20	44.50	52.74	74.00	-21.26	peak



Test mode: 00_3DH5_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

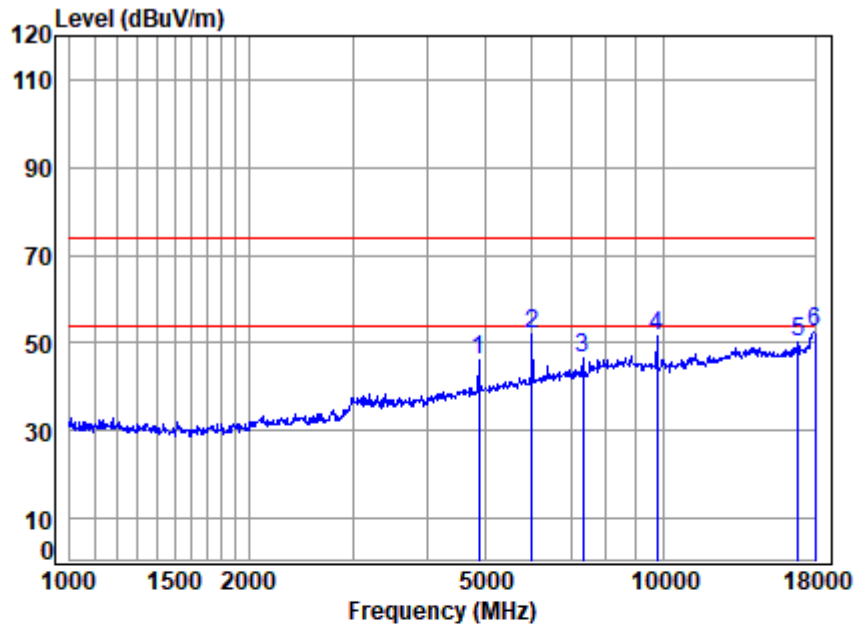
Mode : 2441 TX RSE

: BT 3DH5

		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 4888.151	8.99	32.18	55.45	54.77	40.49	54.00	-13.51	Average
2	pk 4888.151	8.99	32.18	55.45	73.42	59.14	74.00	-14.86	Peak
3	7326.267	11.13	36.75	56.70	57.49	48.67	74.00	-25.33	peak
4	9753.371	12.82	38.60	55.88	57.81	53.35	74.00	-20.65	peak
5	14201.690	16.67	39.80	54.42	47.37	49.42	74.00	-24.58	peak
6	16891.040	19.64	39.60	54.09	44.82	49.97	74.00	-24.03	peak
7	18000.000	18.64	43.80	54.20	45.13	53.37	74.00	-20.63	peak



Test mode: 00_3DH5_TX_CH_39_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

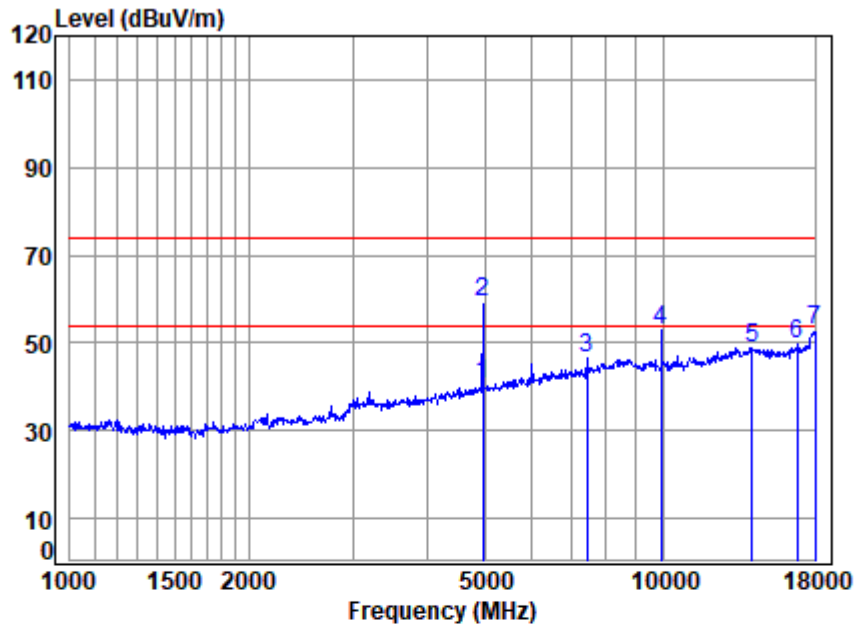
Mode : 2441 TX RSE

: BT 3DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit	Over	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4888.151	8.99	32.18	55.45	60.58	46.30	74.00	-27.70	Peak
2	6001.626	10.05	33.80	55.90	64.23	52.18	74.00	-21.82	peak
3	7326.267	11.13	36.75	56.70	55.43	46.61	74.00	-27.39	peak
4	9753.371	12.82	38.60	55.88	55.93	51.47	74.00	-22.53	peak
5	16891.040	19.64	39.60	54.09	44.84	49.99	74.00	-24.01	peak
6	pp18000.000	18.64	43.80	54.20	44.40	52.64	74.00	-21.36	peak



Test mode: 00_3DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

Mode : 2480 TX RSE

: BT 3DH5

		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	4959.307	9.07	32.20	55.48	54.99	40.78	54.00	-13.22	Average
2 pk	4959.307	9.07	32.20	55.48	73.64	59.43	74.00	-14.57	Peak
3	7432.914	11.10	36.77	56.67	55.47	46.67	74.00	-27.33	peak
4	9923.991	12.74	38.90	55.82	57.29	53.11	74.00	-20.89	peak
5	14119.830	16.40	39.88	54.45	46.93	48.76	74.00	-25.24	peak
6	16842.290	18.46	39.60	54.09	45.89	49.86	74.00	-24.14	peak
7	18000.000	18.64	43.80	54.20	44.53	52.77	74.00	-21.23	peak



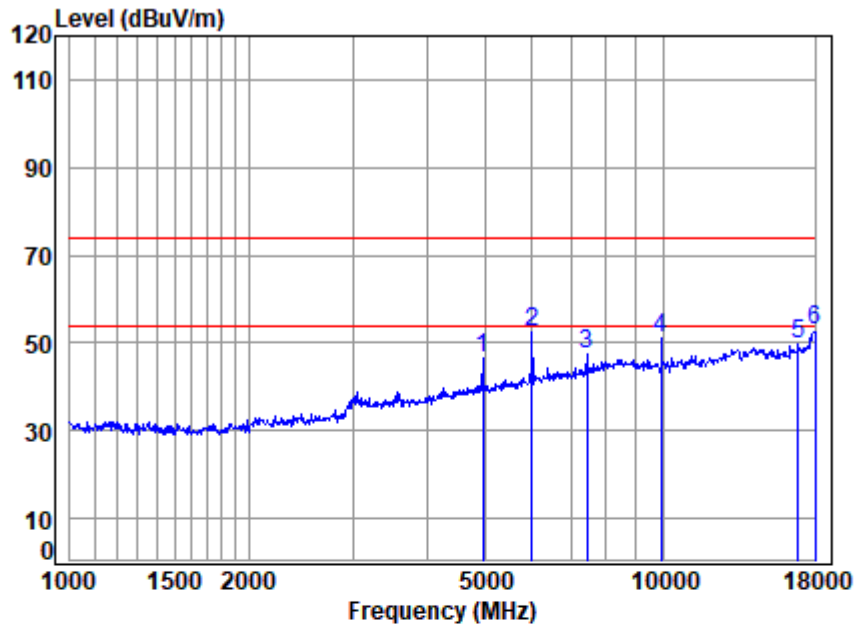
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251100486102

Page: 39 of 145

Test mode: 00_3DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2480 TX RSE

: BT 3DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4959.307	9.07	32.20	55.48	60.83	46.62	74.00	-27.38	Peak
2	6001.626	10.05	33.80	55.90	64.44	52.39	74.00	-21.61	peak
3	7432.914	11.10	36.77	56.67	56.15	47.35	74.00	-26.65	peak
4	9923.991	12.74	38.90	55.82	55.26	51.08	74.00	-22.92	peak
5	16891.040	19.64	39.60	54.09	44.45	49.60	74.00	-24.40	peak
6	pp18000.000	18.64	43.80	54.20	44.64	52.88	74.00	-21.12	peak



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Shenzhen Branch

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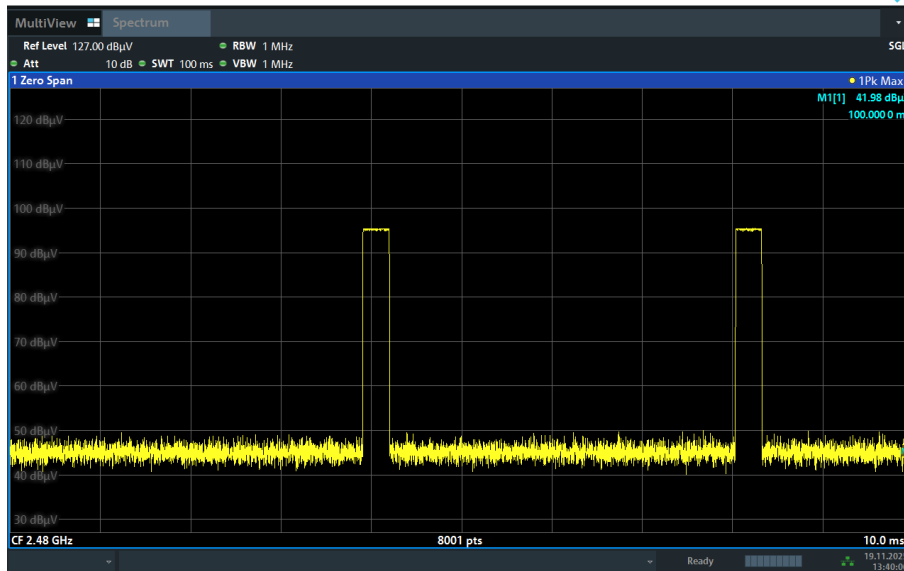
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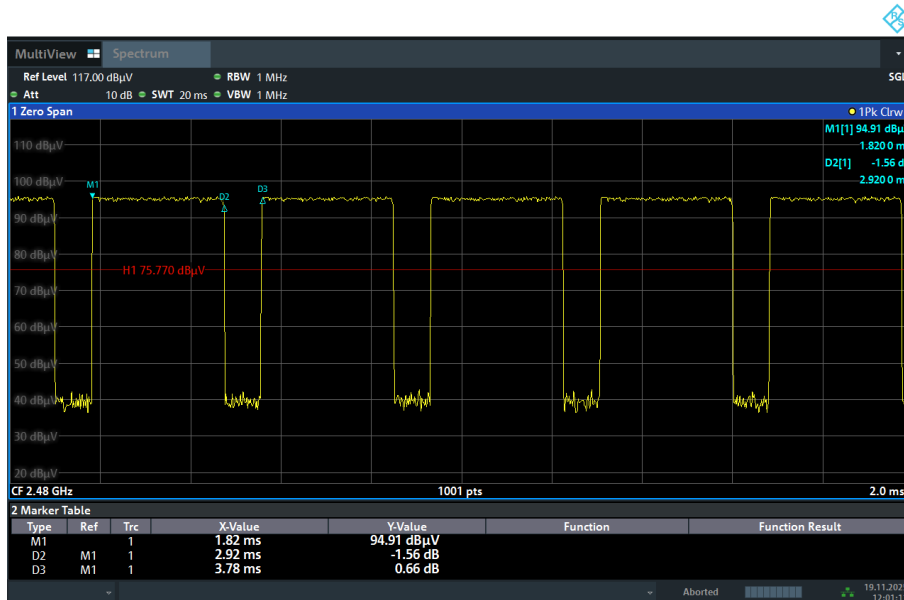
Test mode:02

Average value:

	Hopping number	On time(ms)	Duty cycle(%)	Correction factor									
				Bandedge(基频)	2倍频	3倍频	4倍频	5倍频	6倍频	7倍频	8倍频	9倍频	10倍频
DH5	2	2.9	0.06	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73	-24.73
2DH5	2	2.92	0.06	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65	-18.65



13:40:06 19.11.2025



12:01:12 19.11.2025

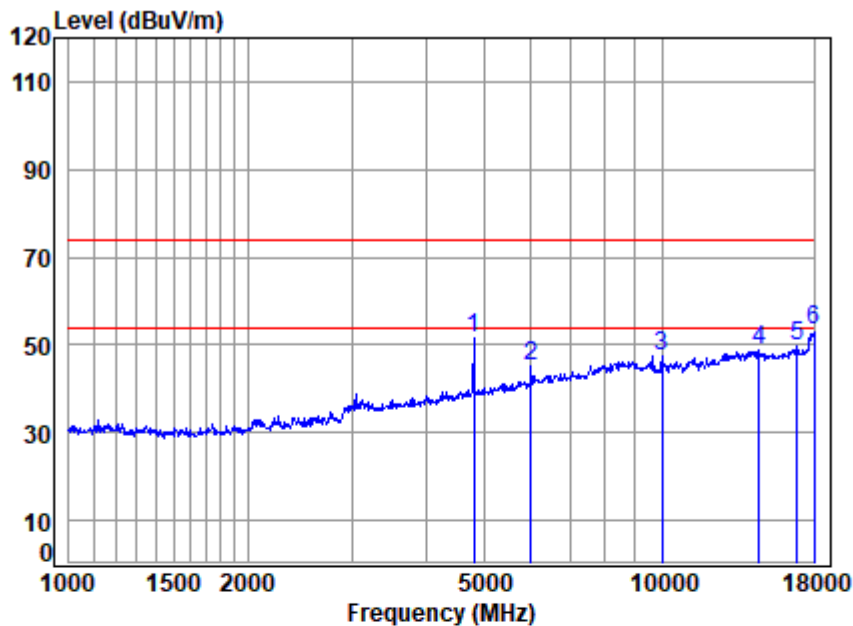
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SZEMC-TRF-01 Rev. A/1

Report No.: SZCR251100486102

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Test mode:02_2DH5_TX_CH_00_Horizontal



Condition: 3m HORIZONTAL
Job No : 04861AT
Mode : 2402 TX RSE
: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.110	8.90	31.92	55.41	66.06	51.47	74.00	-22.53	peak
2	6001.626	10.05	33.80	55.90	57.02	44.97	74.00	-29.03	Peak
3	9981.525	12.85	38.90	55.81	51.50	47.44	74.00	-26.56	peak
4	14533.910	16.36	39.43	54.28	47.14	48.65	74.00	-25.35	peak
5	16891.040	19.64	39.60	54.09	44.64	49.79	74.00	-24.21	peak
6	pp18000.000	18.64	43.80	54.20	45.06	53.30	74.00	-20.70	peak

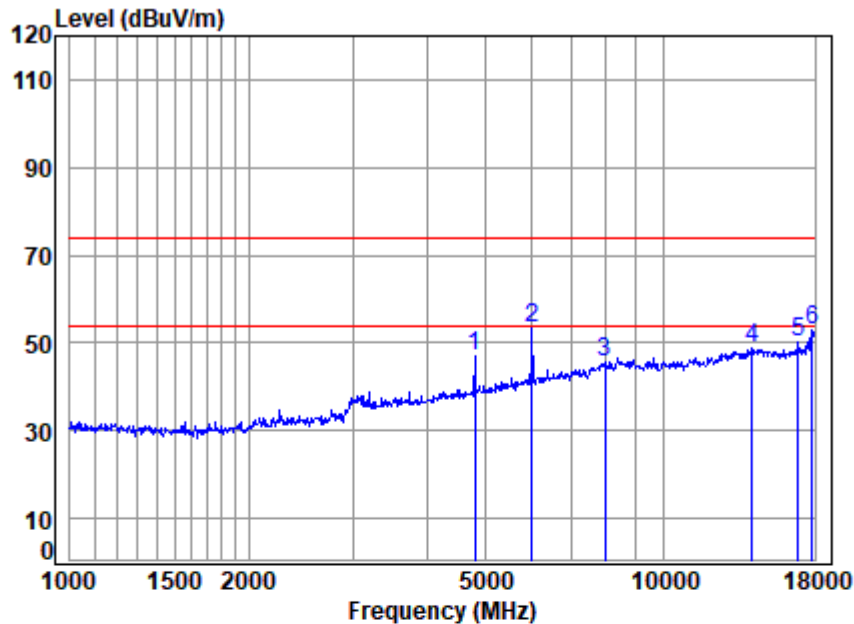


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Test mode:02_2DH5_TX_CH_00_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2402 TX RSE

: BT 2DH5

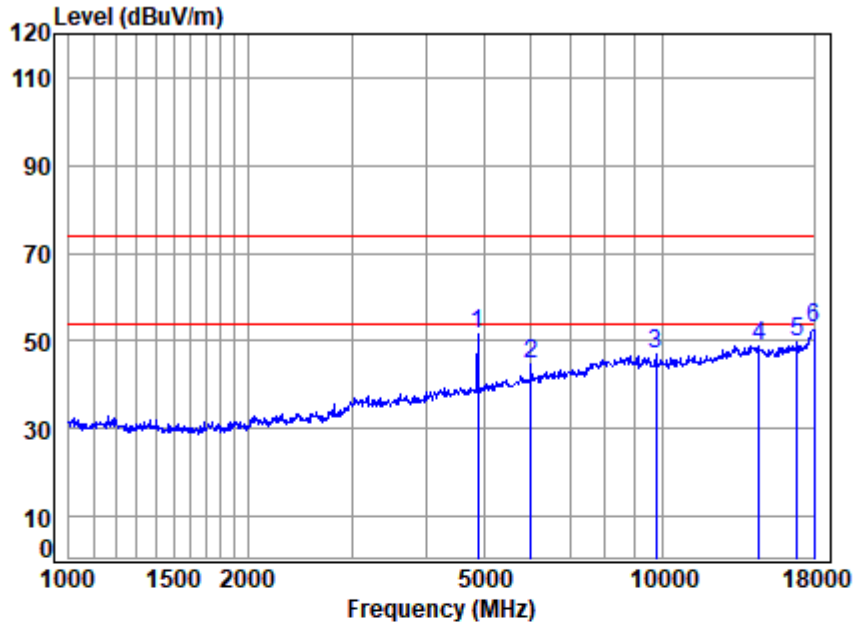
		Cable	Ant	Preamp	Read		Limit	Over	
	Freq	Loss	Factor	Factor	Level	Level	Line	Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4804.110	8.90	31.92	55.41	61.73	47.14	74.00	-26.86	Peak
2	pp 6001.626	10.05	33.80	55.90	65.28	53.23	74.00	-20.77	peak
3	7966.832	11.47	37.73	56.51	52.72	45.41	74.00	-28.59	peak
4	14119.830	16.40	39.88	54.45	46.85	48.68	74.00	-25.32	peak
5	16891.040	19.64	39.60	54.09	45.00	50.15	74.00	-23.85	peak
6	17844.590	19.02	42.77	54.19	45.19	52.79	74.00	-21.21	peak



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Test mode:02_2DH5_TX_CH_39_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

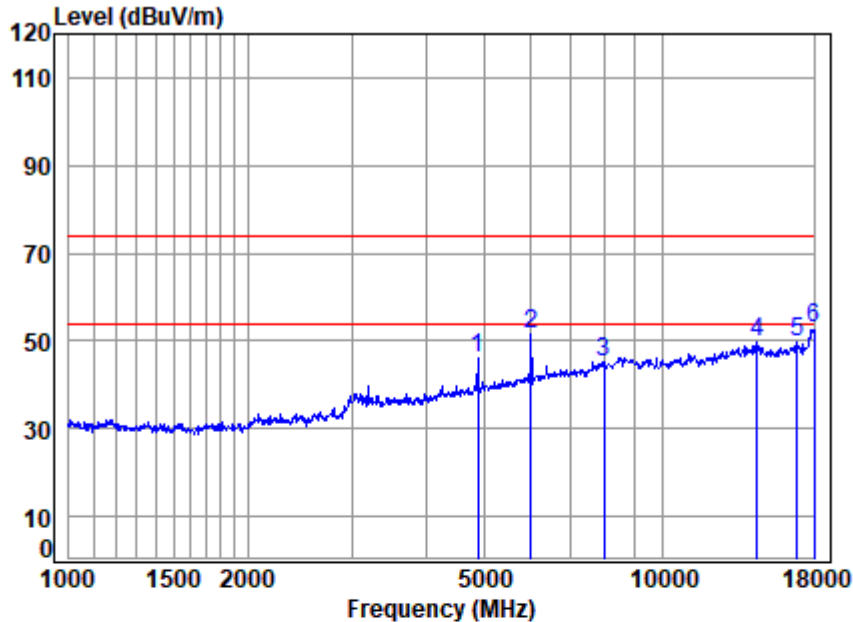
Mode : 2441 TX RSE

: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4888.151	8.99	32.18	55.45	65.64	51.36	74.00	-22.64	peak
2	6001.626	10.05	33.80	55.90	56.60	44.55	74.00	-29.45	Peak
3	9753.371	12.82	38.60	55.88	51.31	46.85	74.00	-27.15	peak
4	14575.970	16.46	39.35	54.27	47.25	48.79	74.00	-25.21	peak
5	16891.040	19.64	39.60	54.09	44.71	49.86	74.00	-24.14	peak
6	pp18000.000	18.64	43.80	54.20	44.48	52.72	74.00	-21.28	peak



Test mode:02_2DH5_TX_CH_39_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

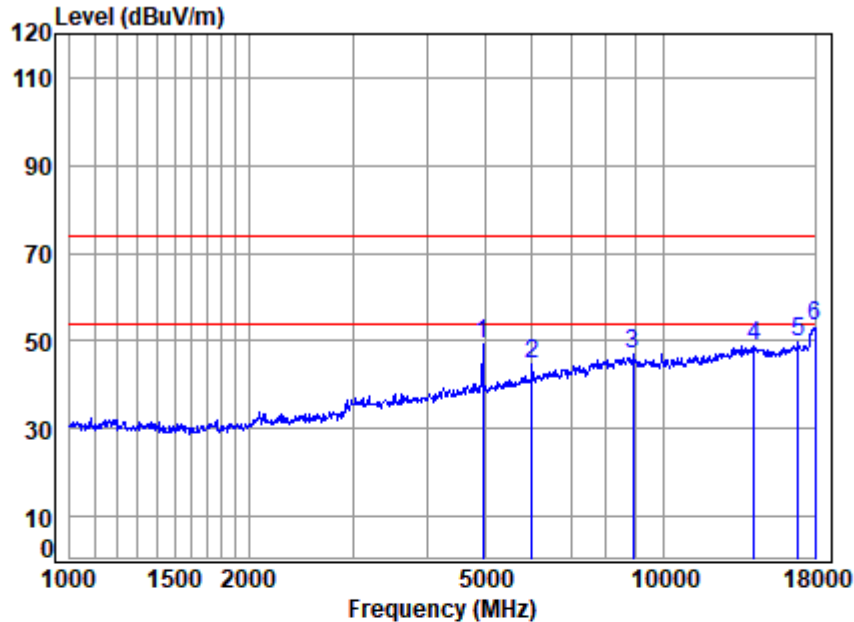
Mode : 2441 TX RSE

: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4888.151	8.99	32.18	55.45	60.50	46.22	74.00	-27.78	Peak
2	6001.626	10.05	33.80	55.90	63.58	51.53	74.00	-22.47	peak
3	7989.893	11.46	37.78	56.50	52.53	45.27	74.00	-28.73	peak
4	14450.130	16.62	39.55	54.32	47.70	49.55	74.00	-24.45	peak
5	16891.040	19.64	39.60	54.09	44.42	49.57	74.00	-24.43	peak
6	pp18000.000	18.64	43.80	54.20	44.51	52.75	74.00	-21.25	peak



Test mode:02_2DH5_TX_CH_78_Horizontal



Condition: 3m HORIZONTAL

Job No : 04861AT

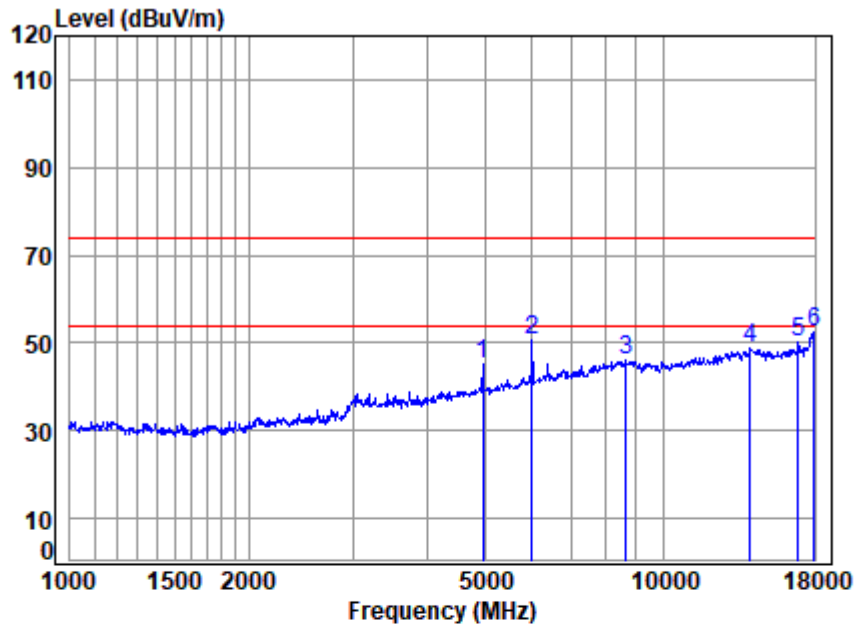
Mode : 2480 TX RSE

: BT 2DH5

		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	4959.307	9.07	32.20	55.48	63.63	49.42	74.00	-24.58 peak
2	6001.626	10.05	33.80	55.90	56.81	44.76	74.00	-29.24 Peak
3	8891.725	12.28	38.58	56.17	52.26	46.95	74.00	-27.05 peak
4	14242.800	16.83	39.80	54.40	46.69	48.92	74.00	-25.08 peak
5	16891.040	19.64	39.60	54.09	44.40	49.55	74.00	-24.45 peak
6	pp18000.000	18.64	43.80	54.20	45.06	53.30	74.00	-20.70 peak



Test mode:02_2DH5_TX_CH_78_Vertical



Condition: 3m VERTICAL

Job No : 04861AT

Mode : 2480 TX RSE

: BT 2DH5

	Freq	Cable Loss	Ant Factor	Preamp Factor	Read Level	Level	Limit Line	Over Limit	Remark
	MHz	dB	dB/m	dB	dBuV	dBuV/m	dBuV/m	dB	
1	4959.307	9.07	32.20	55.48	59.42	45.21	74.00	-28.79	Peak
2	6001.626	10.05	33.80	55.90	62.87	50.82	74.00	-23.18	peak
3	8638.399	11.88	38.42	56.26	51.88	45.92	74.00	-28.08	Peak
4	13997.930	16.53	39.90	54.50	46.68	48.61	74.00	-25.39	peak
5	16891.040	19.64	39.60	54.09	44.86	50.01	74.00	-23.99	peak
6	pp17948.050	18.75	43.44	54.20	44.40	52.39	74.00	-21.61	peak



7.4 Conducted Peak Output Power

Test Requirement 47 CFR Part 15, Subpart C 15.247(b)(3)

Test Method:

Test Engineer: Byron Liang

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

7.4.1 E.U.T. Operation

Operating Environment:

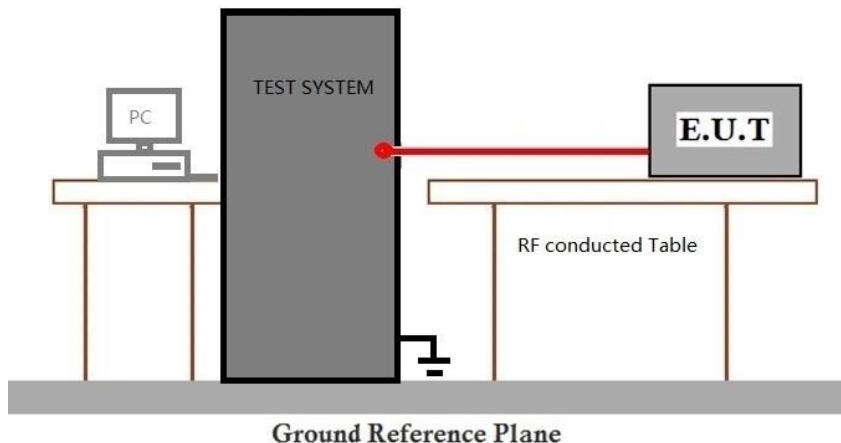
Temperature: 20.0 °C Humidity: 47.3 % RH Atmospheric Pressure: 1020 mbar

7.4.2 Test Mode Description

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



7.4.3 Test Setup Diagram



7.4.4 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



7.5 Minimum 6dB Bandwidth

Test Requirement 47 CFR Part 15, Subpart C 15.247a(2)
 Test Method: ANSI C63.10 (2020) Section 11.8.1
 Test Engineer: Byron Liang

Limit:
 ≥500 kHz

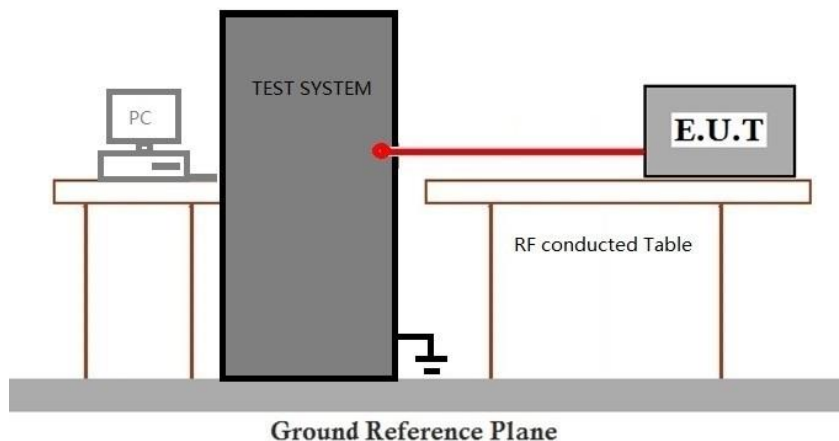
7.5.1 E.U.T. Operation

Operating Environment:
 Temperature: 20.0 °C Humidity: 47.6 % 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(Left earbud) Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_non-Hop mode(Right earbud) Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.

7.5.3 Test Setup Diagram



7.5.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.6 Power Spectrum Density

Test Requirement 47 CFR Part 15, Subpart C 15.247(e)
 Test Method: ANSI C63.10 (2020) Section 11.10.2
 Test Engineer: Byron Liang

Limit:

≤8dBm in any 3 kHz band during any time interval of continuous transmission

7.6.1 E.U.T. Operation

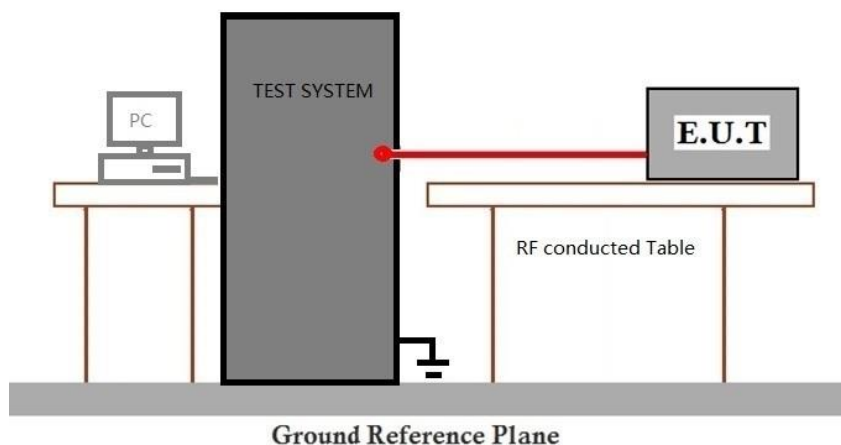
Operating Environment:

Temperature: 20.0 °C Humidity: 47.9 % RH Atmospheric Pressure: 1020 mbar

7.6.2 Test Mode Description

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

7.6.3 Test Setup Diagram



7.6.4 Measurement Procedure and Data

Please Refer to Appendix for Details

7.7 Conducted Band Edges Measurement

Test Requirement 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 6.10.4
 Test Engineer: Byron Liang

Limit:

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

7.7.1 E.U.T. Operation

Operating Environment:

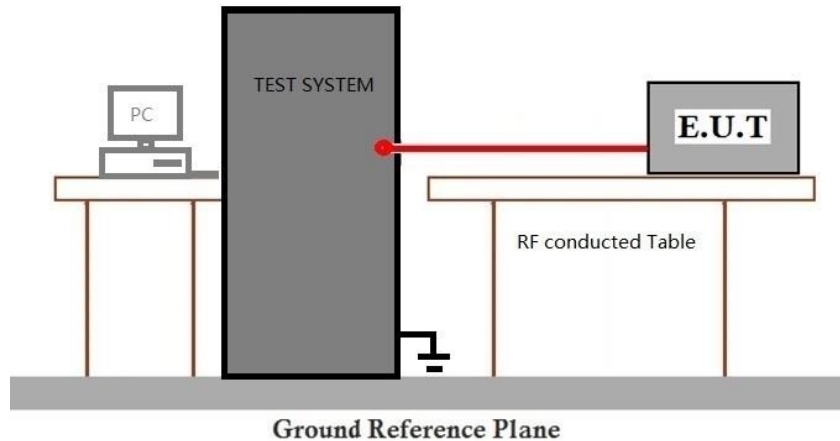
Temperature: 20.0 °C Humidity: 47.9 % RH Atmospheric Pressure: 1020 mbar

7.7.2 Test Mode Description

Pre-scan / Final test	Mode Code	Description
Final test	00	TX_non-Hop mode(Left earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	01	TX_Hop mode(Left earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	02	TX_non-Hop mode(Right earbud)_Keep the EUT in continuously transmitting mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.
Final test	03	TX_Hop mode(Right earbud)_Keep the EUT in frequency hopping mode with GFSK modulation, Pi/4DQPSK modulation, 8DPSK modulation. All modes have been tested and only the data of worst case is recorded in the report.



7.7.3 Test Setup Diagram



7.7.4 Measurement Procedure and Data

Please Refer to Appendix for Details



7.8 Conducted Spurious Emissions

Test Requirement: 47 CFR Part 15, Subpart C 15.247(d)
 Test Method: ANSI C63.10 (2020) Section 11.11
 Test Engineer: Byron Liang

Limit:

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

7.8.1 E.U.T. Operation

Operating Environment:

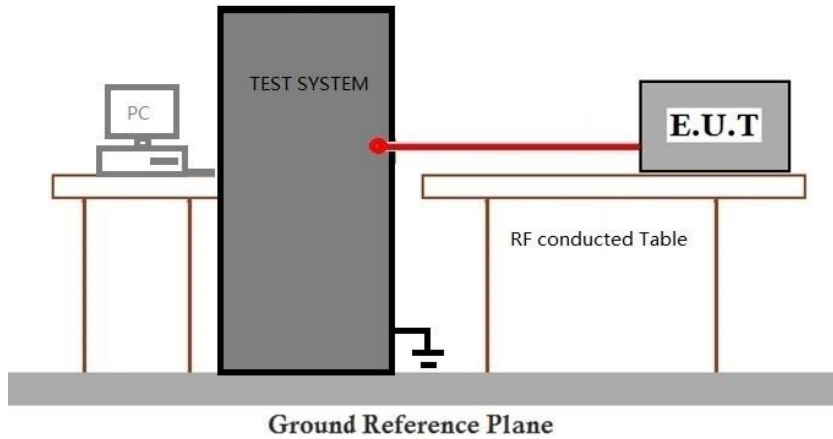
Temperature: 20.0 °C Humidity: 48.1 % RH Atmospheric Pressure: 1020 mbar

7.8.2 Test Mode Description

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



7.8.3 Test Setup Diagram



7.8.4 Measurement Procedure and Data

Please Refer to Appendix for Details



8 Test Setup Photo

Refer to Appendix – Test Setup Photos for SZCR2511004861AT

9 EUT Constructional Details (EUT Photos)

Refer to External and Internal Photos for SZCR2511004861AT



10 Appendix

For right earbud:

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	1	0.861	/	Pass
		2441	DH5	1	0.858	/	Pass
		2480	DH5	1	0.873	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.160	/	Pass
		2441	2DH5	1	1.157	/	Pass
		2480	2DH5	1	1.158	/	Pass
8DPSK	SISO	2402	3DH5	1	1.183	/	Pass
		2441	3DH5	1	1.178	/	Pass
		2480	3DH5	1	1.178	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.953	/	Pass
		2441	DH5	1	0.947	/	Pass
		2480	DH5	1	0.951	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.288	/	Pass
		2441	2DH5	1	1.272	/	Pass
		2480	2DH5	1	1.270	/	Pass
8DPSK	SISO	2402	3DH5	1	1.283	/	Pass
		2441	3DH5	1	1.290	/	Pass
		2480	3DH5	1	1.293	/	Pass



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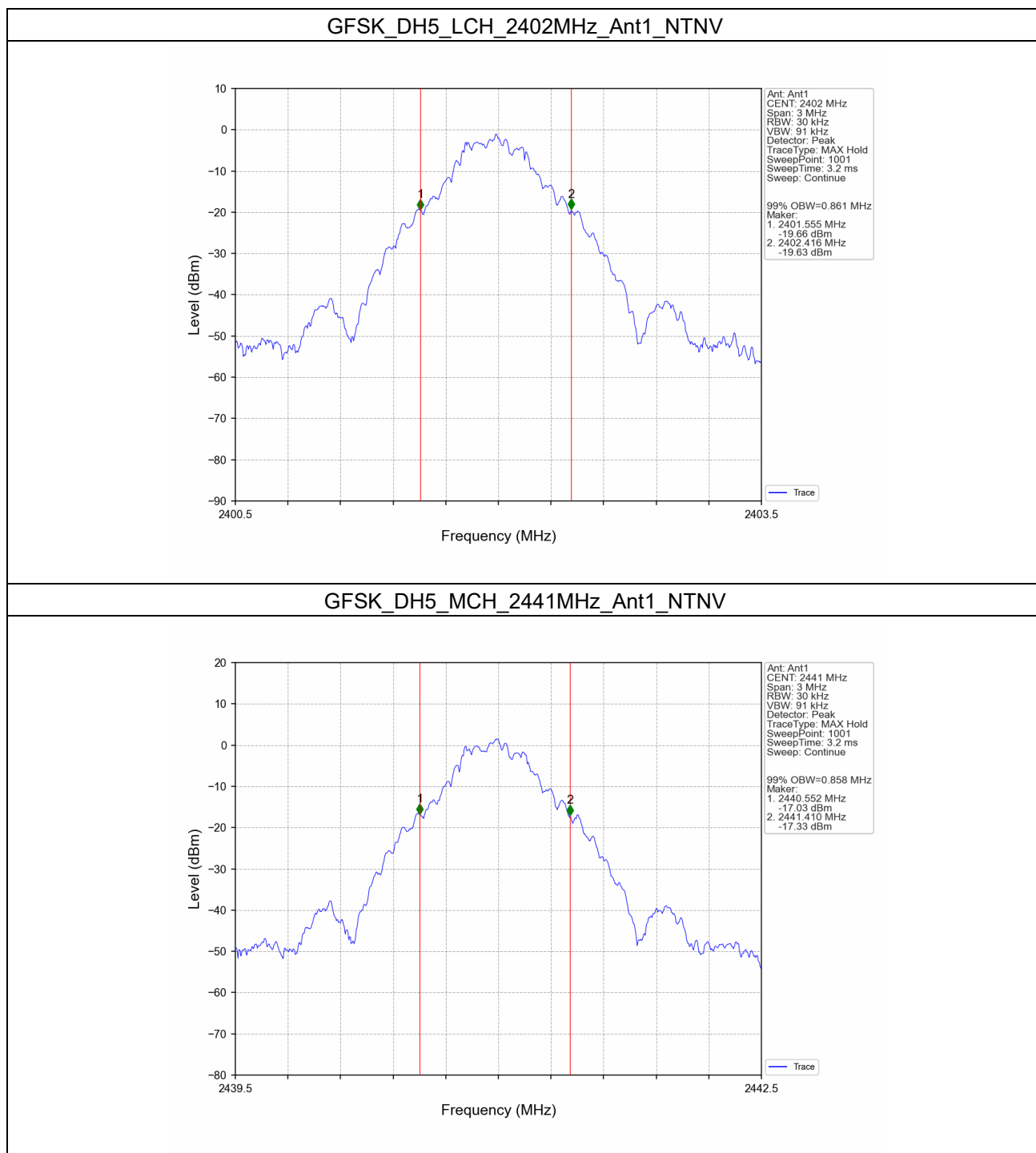
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1.2 Test Graph

1.2.1 OBW



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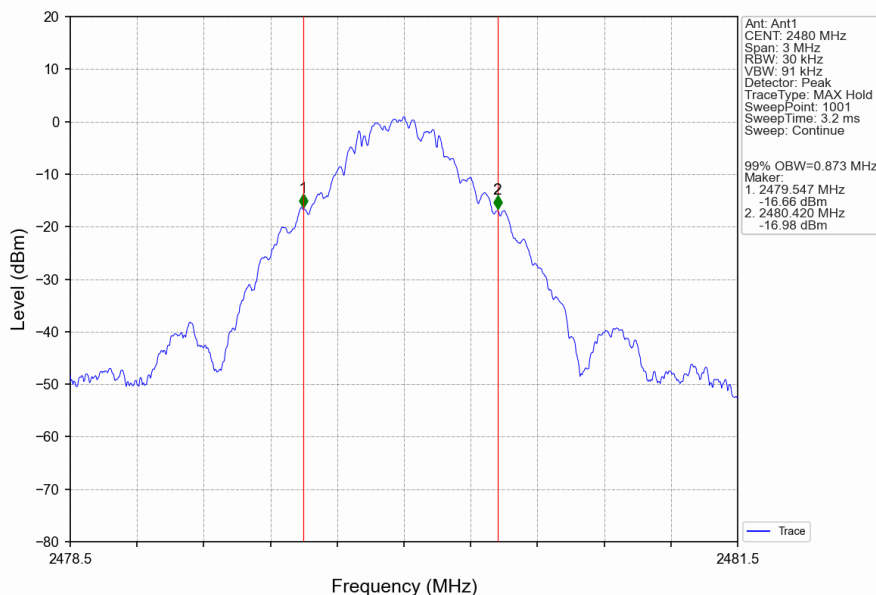
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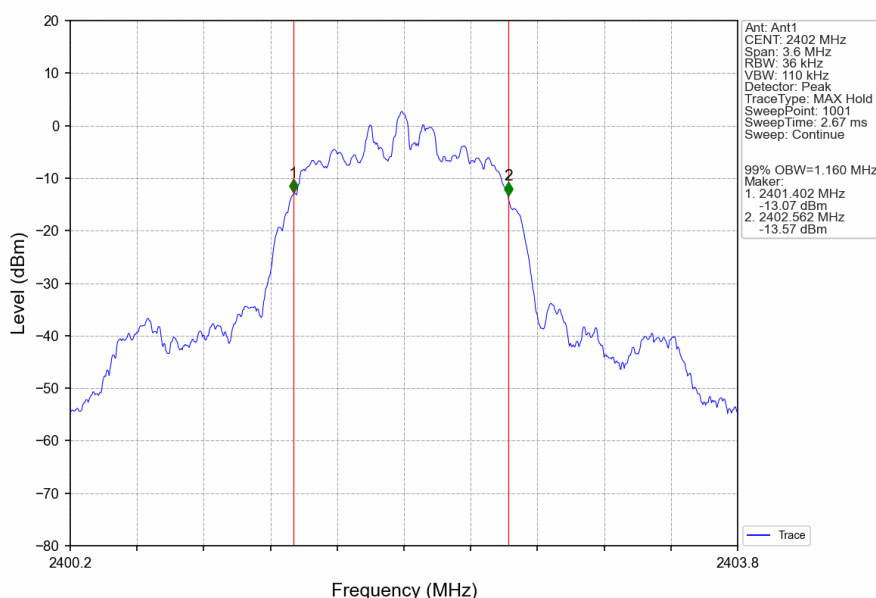
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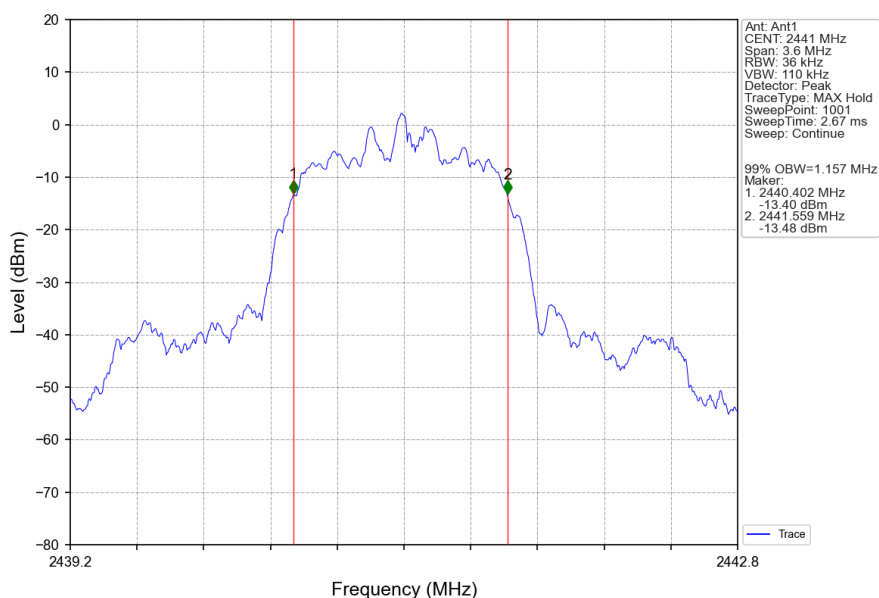
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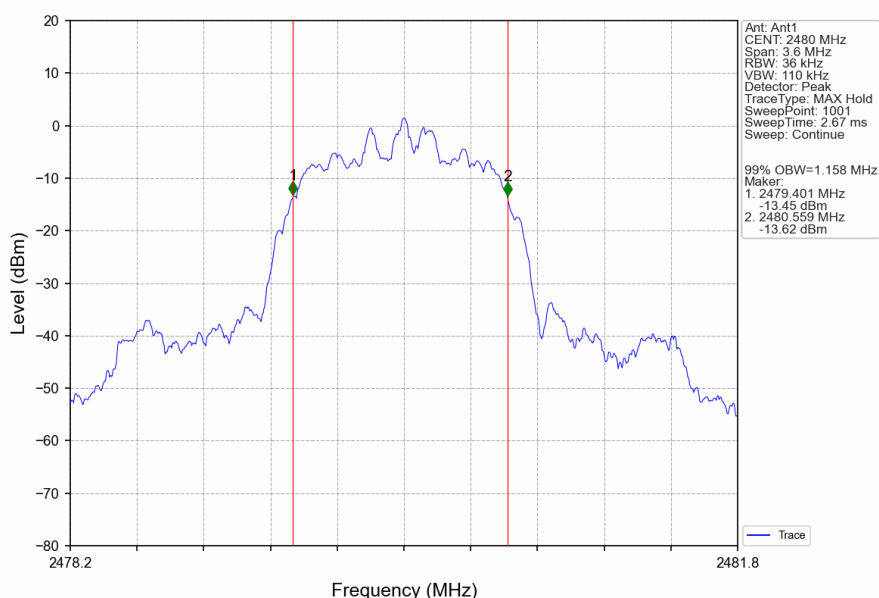
Pi/4DQPSK_2DH5_LCH_2402MHz_Ant1_NTNV



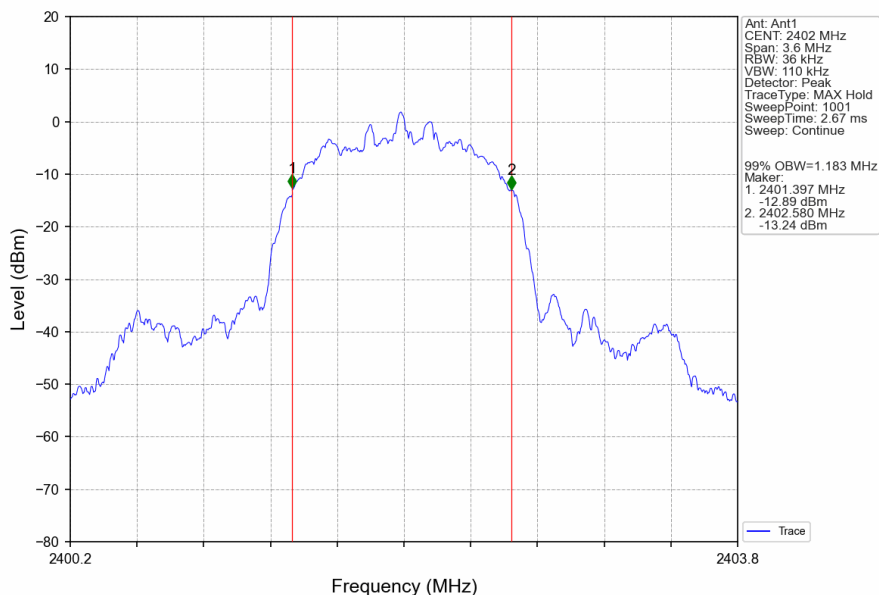
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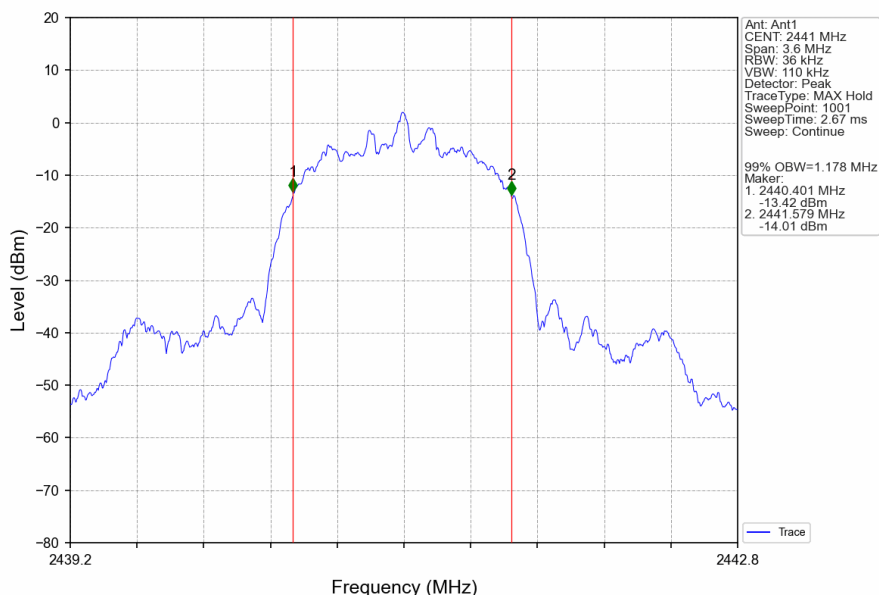
Pi/4DQPSK_2DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



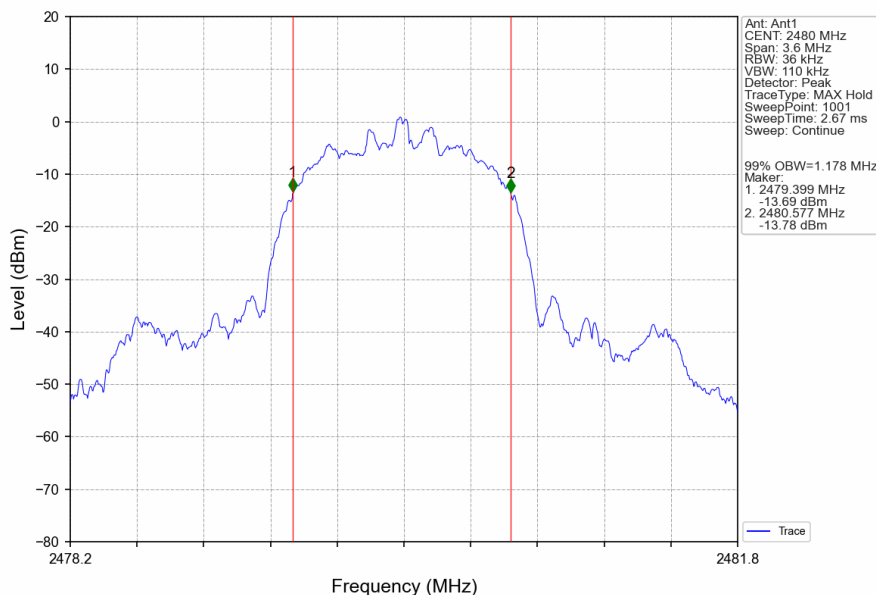
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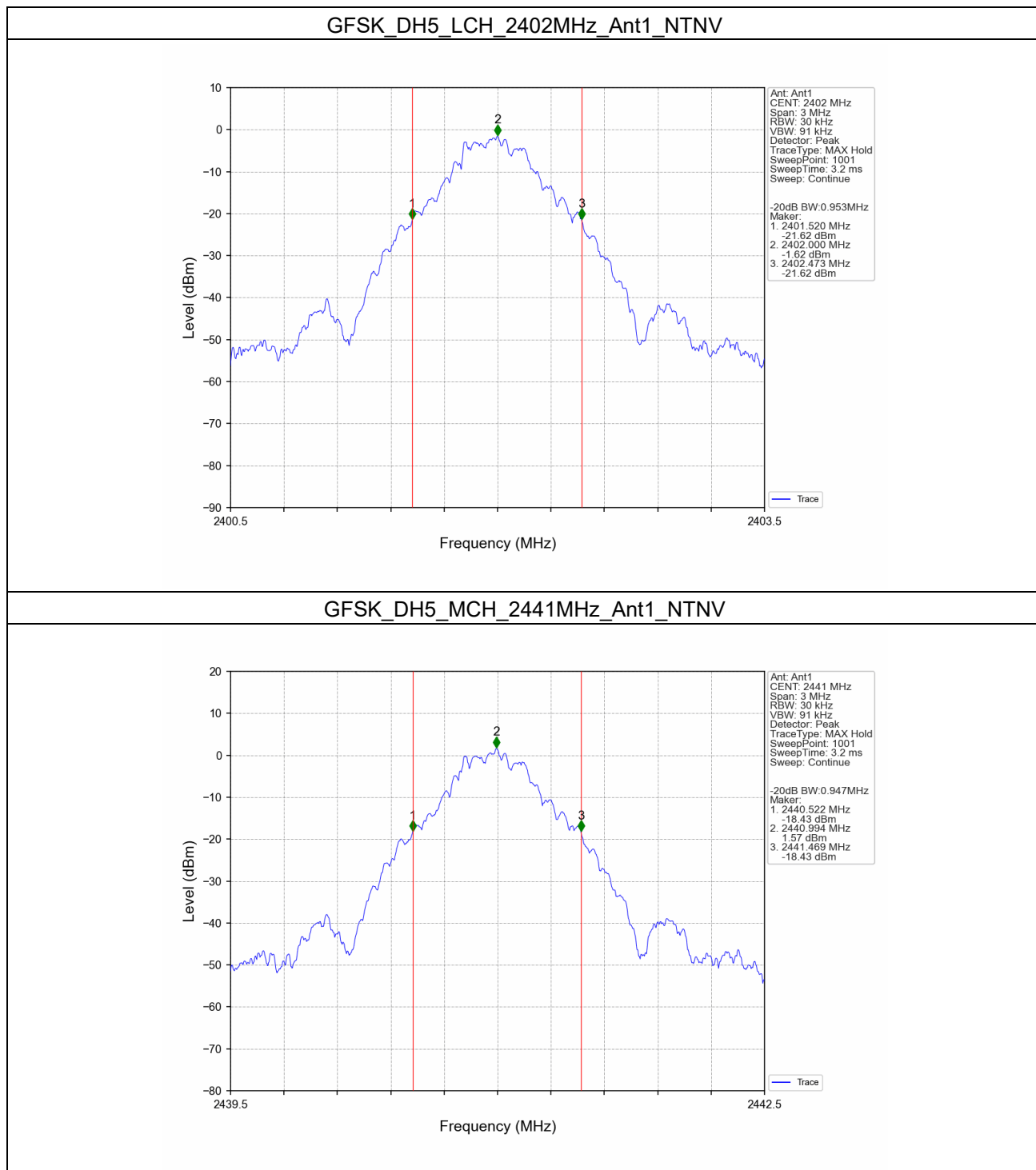
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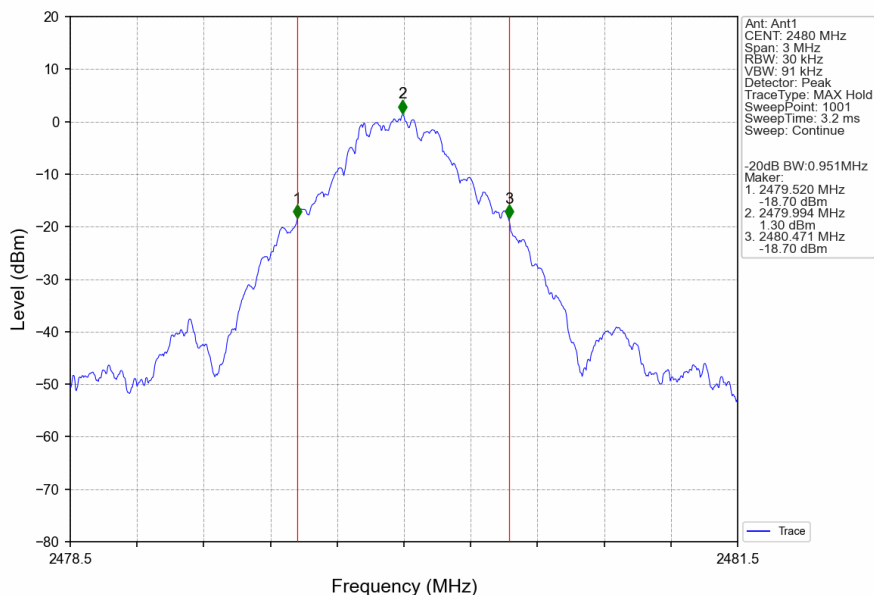
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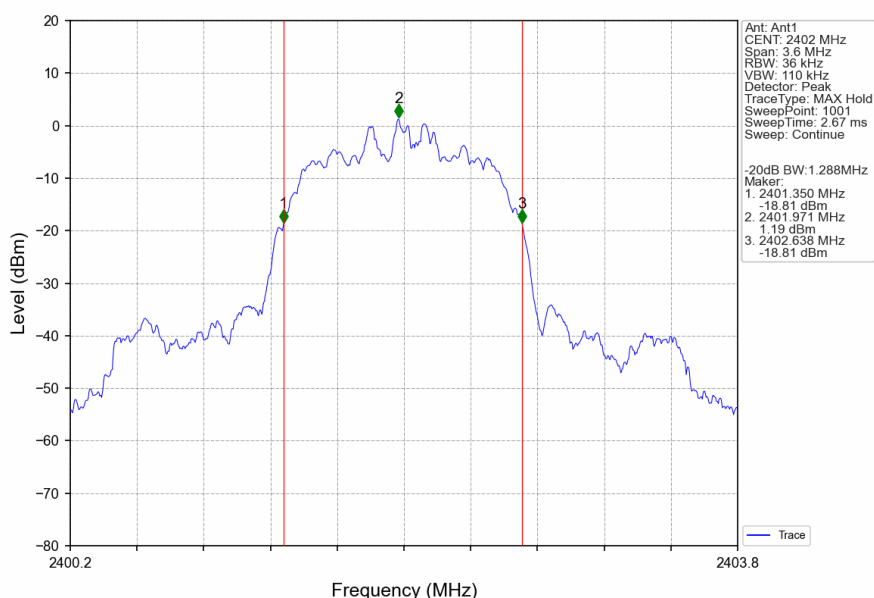
1.2.2 20dB BW



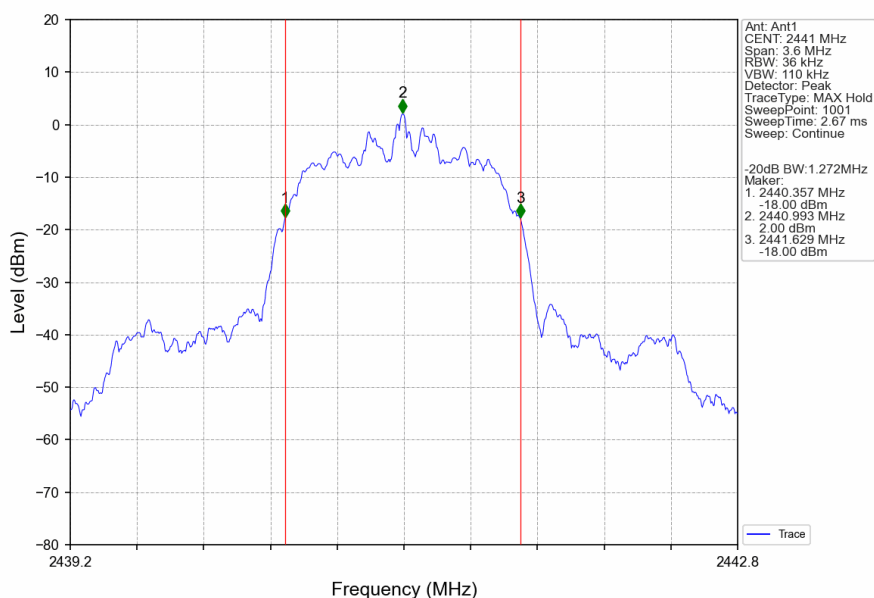
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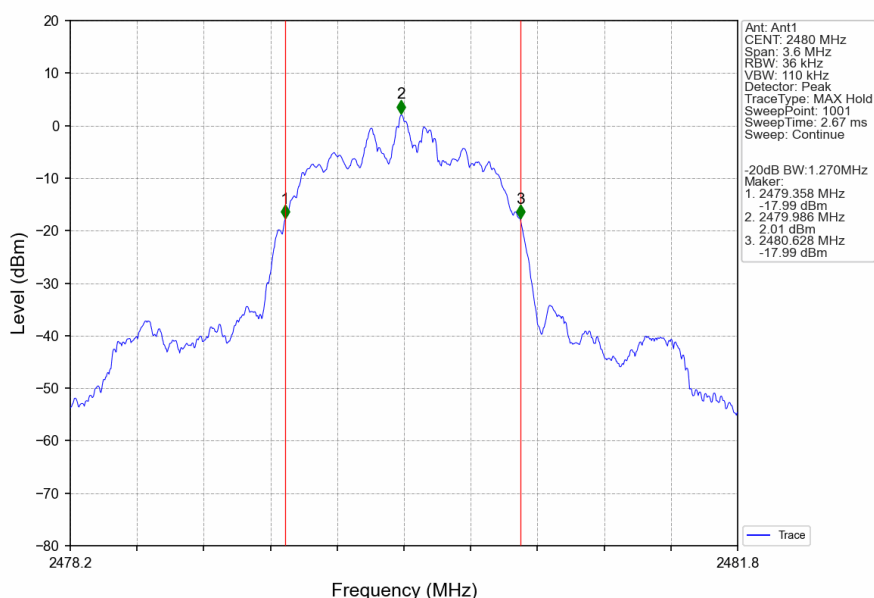
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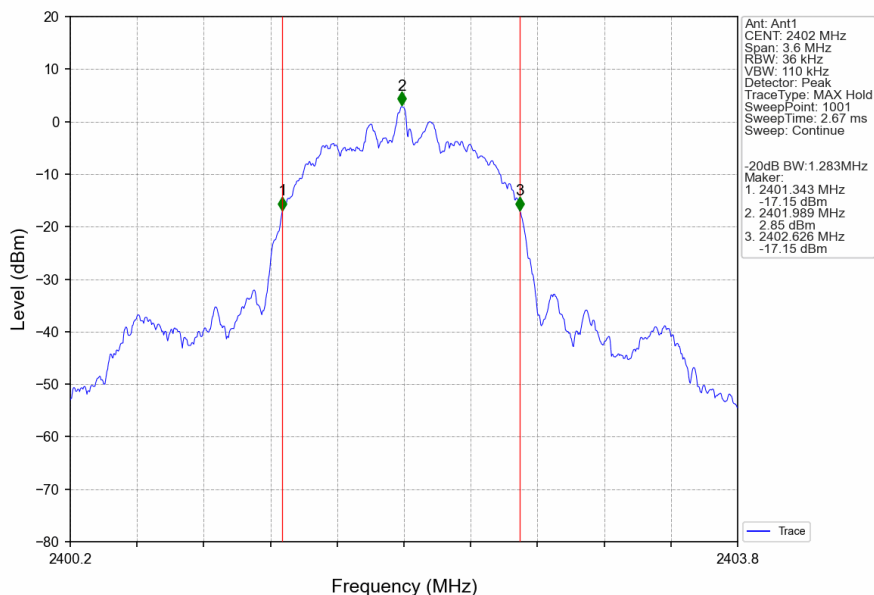
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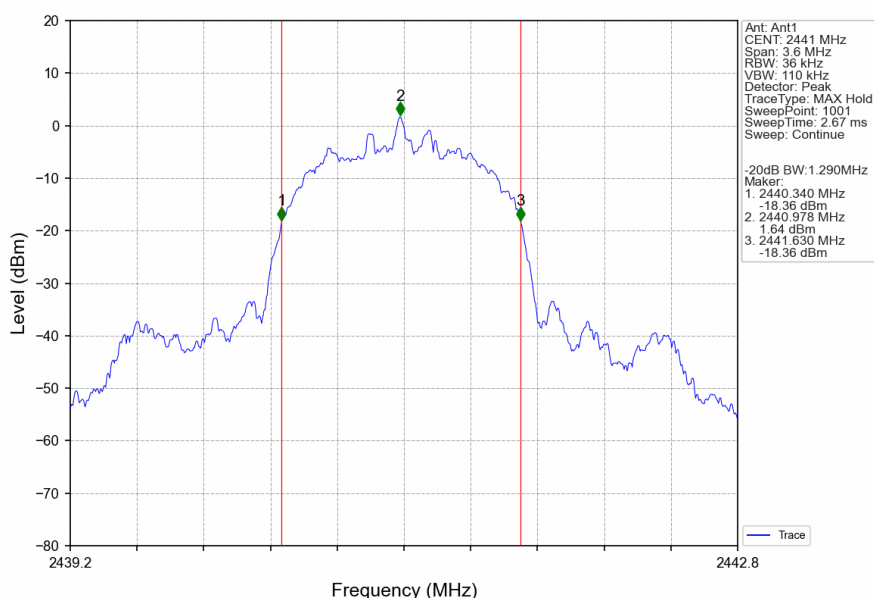
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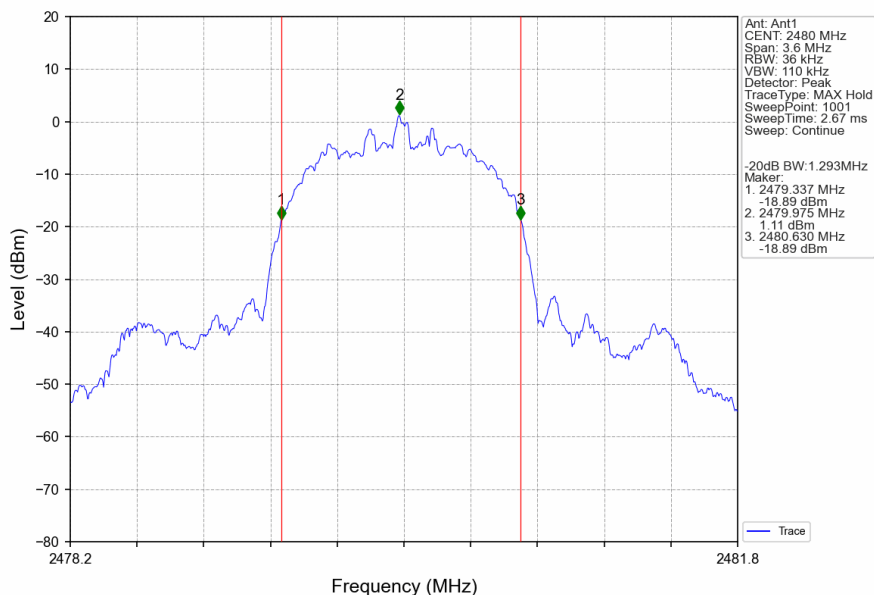
8DPSK_3DH5_LCH_2402MHz_Ant1_NTNV



8DPSK_3DH5_MCH_2441MHz_Ant1_NTNV



8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



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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
				ANT1	Limit	
GFSK	SISO	2402	DH5	4.04	<=30	Pass
		2441	DH5	3.40	<=30	Pass
		2480	DH5	3.34	<=30	Pass
Pi/4DQPSK	SISO	2402	2DH5	4.87	<=20.97	Pass
		2441	2DH5	4.33	<=20.97	Pass
		2480	2DH5	4.32	<=20.97	Pass
8DPSK	SISO	2402	3DH5	5.53	<=20.97	Pass
		2441	3DH5	4.67	<=20.97	Pass
		2480	3DH5	4.60	<=20.97	Pass

Note1: Antenna Gain: Ant1: 2.70dBi;

3. Carrier Frequency Separation

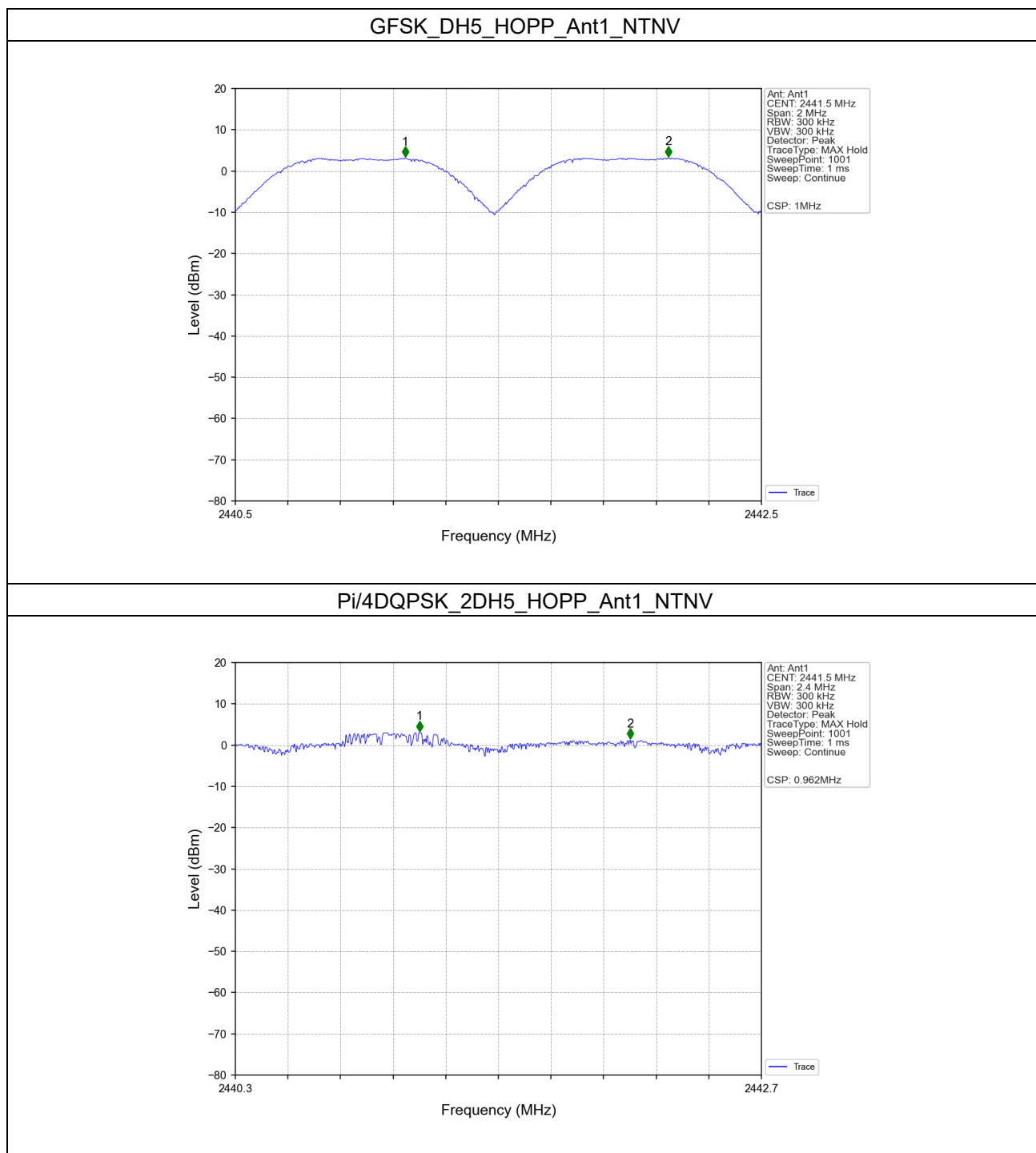
3.1 Test Result

3.1.1 Ant1

Ant1							
Mode	TX Type	Frequency (MHz)	Packet Type	Channel Separation (MHz)	20dB Bandwidth (MHz)	Limit (MHz)	Verdict
GFSK	SISO	HOPP	DH5	1.000	0.953	>=0.953	Pass
Pi/4DQPSK	SISO	HOPP	2DH5	0.962	1.288	>=0.859	Pass
8DPSK	SISO	HOPP	3DH5	1.001	1.293	>=0.862	Pass

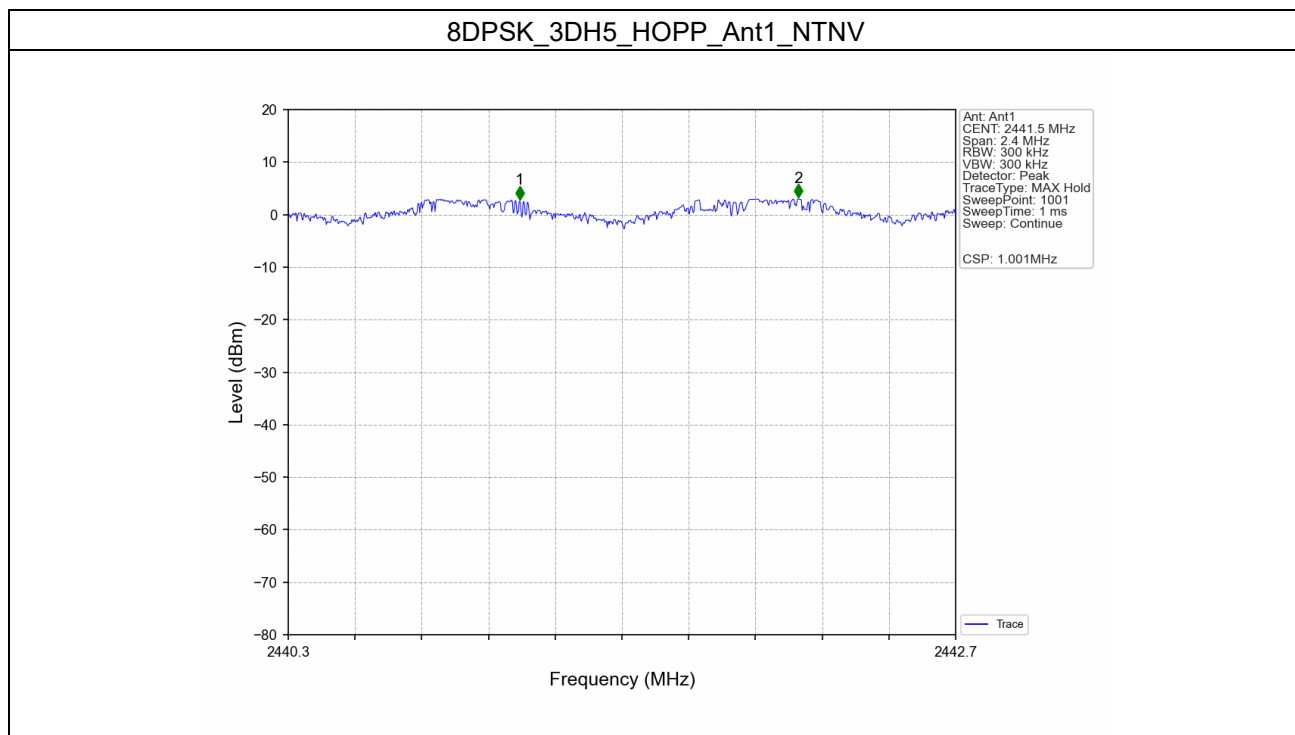
3.2 Test Graph

3.2.1 Ant1



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4. Number of Hopping Frequencies

4.1 Test Result

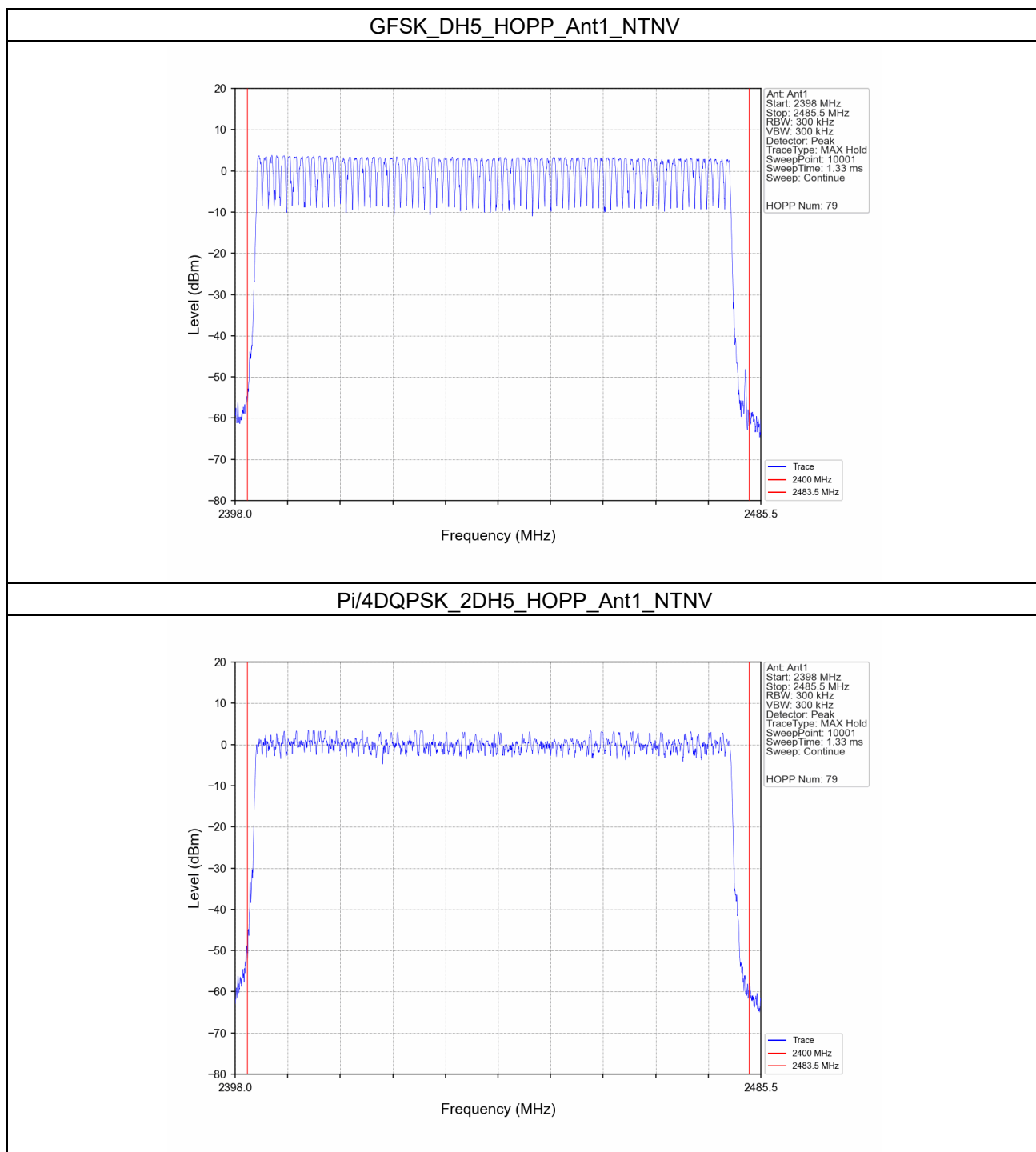
4.1.1 HoppNum

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

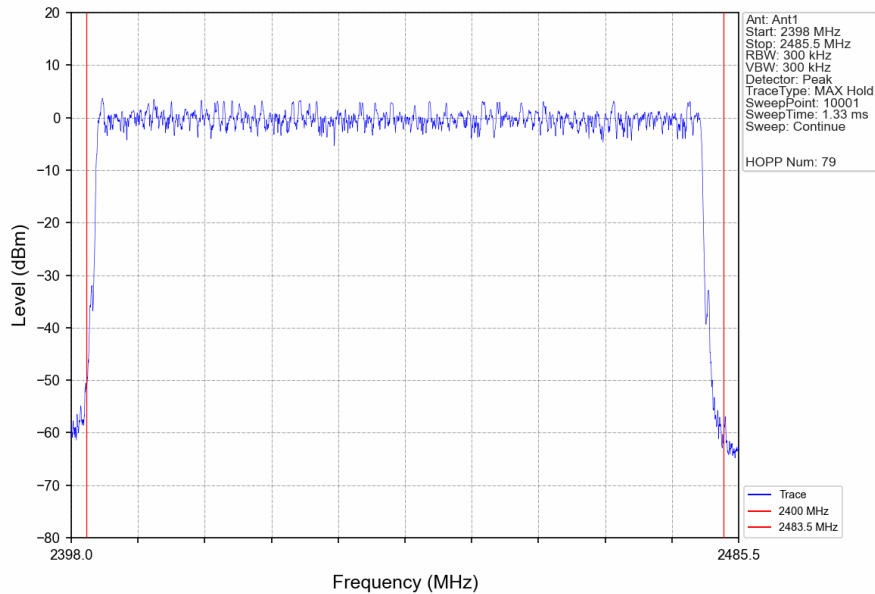


4.2 Test Graph

4.2.1 HoppNum



8DPSK_3DH5_HOPP_Ant1_NTNV



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5. Time of Occupancy (Dwell Time)

5.1 Test Result

5.1.1 Ant1

Ant1									
Mode	TX Type	Frequency (MHz)	Packet Type	Duration of Single Pulse (ms)	Observation Period (s)	Num of Pulse in Observation Period	Dwell Time (ms)	Limit (ms)	Verdict
GFSK	SISO	HOPP	DH1	0.414	31.600	319	132.066	<=400	Pass
			DH3	1.670	31.600	161	268.870	<=400	Pass
			DH5	2.916	31.600	100	291.600	<=400	Pass
Pi/4DQPSK	SISO	HOPP	2DH1	0.422	31.600	319	134.618	<=400	Pass
			2DH3	1.674	31.600	160	267.840	<=400	Pass
			2DH5	2.924	31.600	101	295.324	<=400	Pass
8DPSK	SISO	HOPP	3DH1	0.424	31.600	319	135.256	<=400	Pass
			3DH3	1.674	31.600	160	267.840	<=400	Pass
			3DH5	2.926	31.600	106	310.156	<=400	Pass

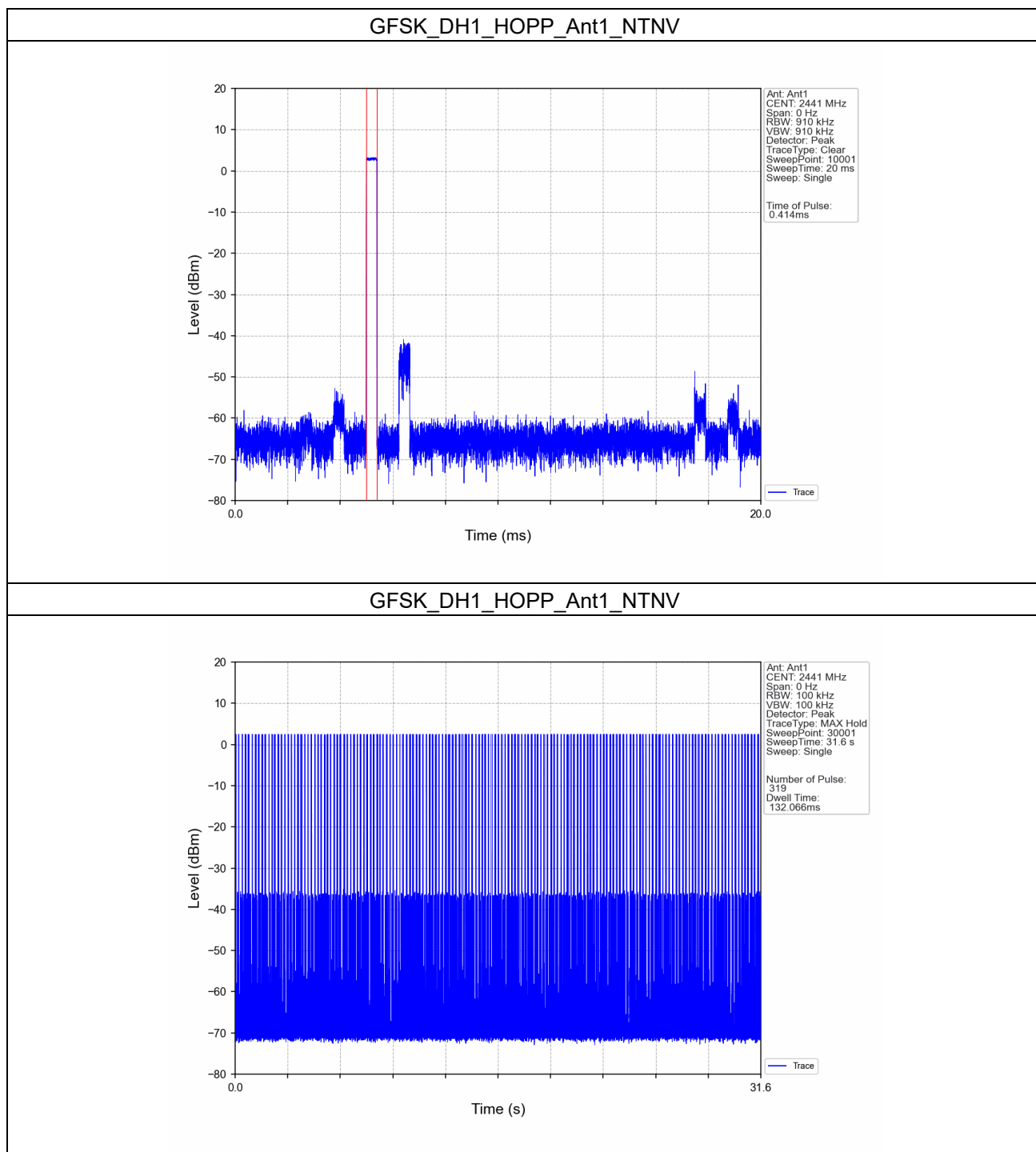


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5.2 Test Graph

5.2.1 Ant1



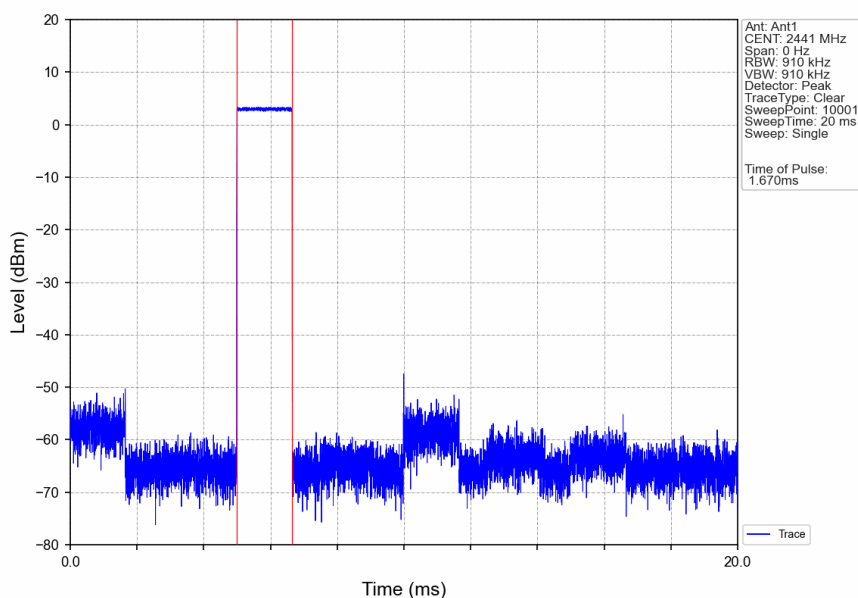
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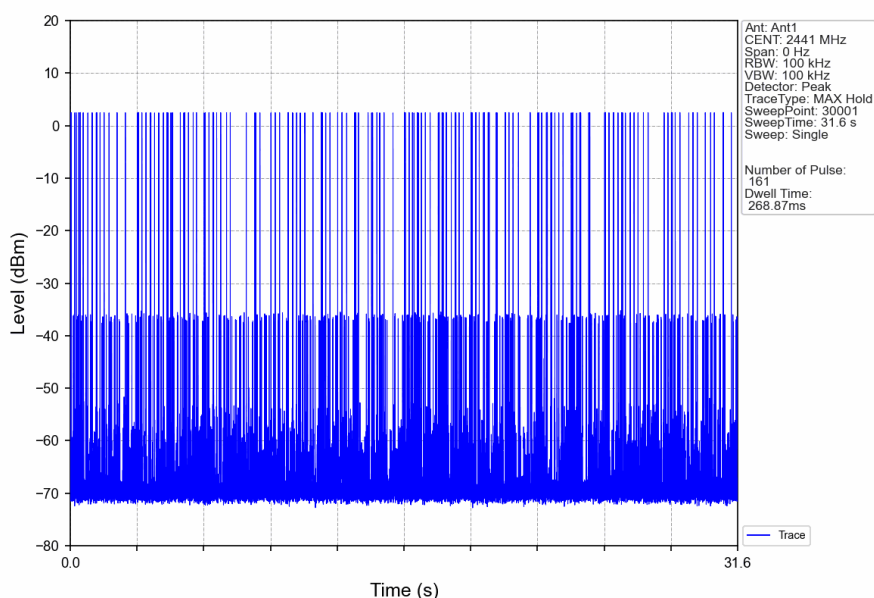
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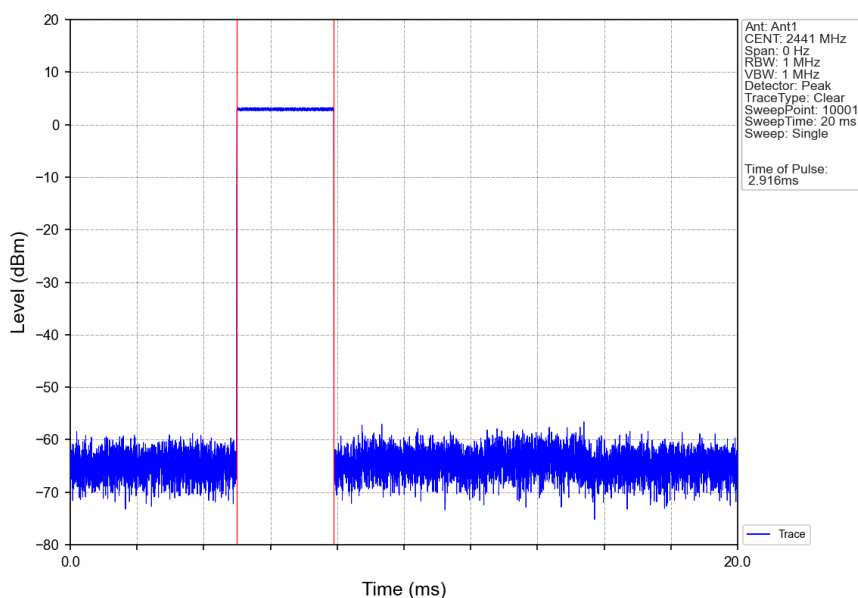
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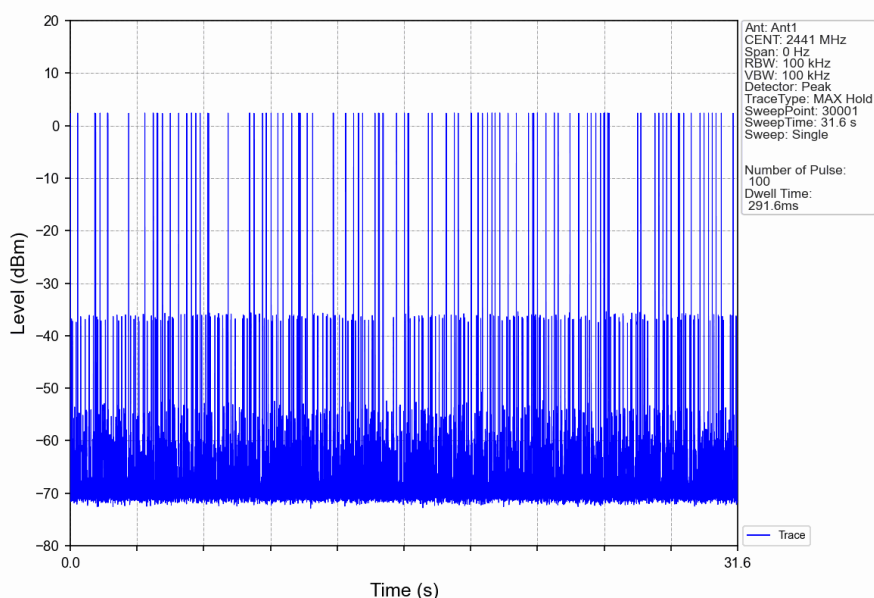
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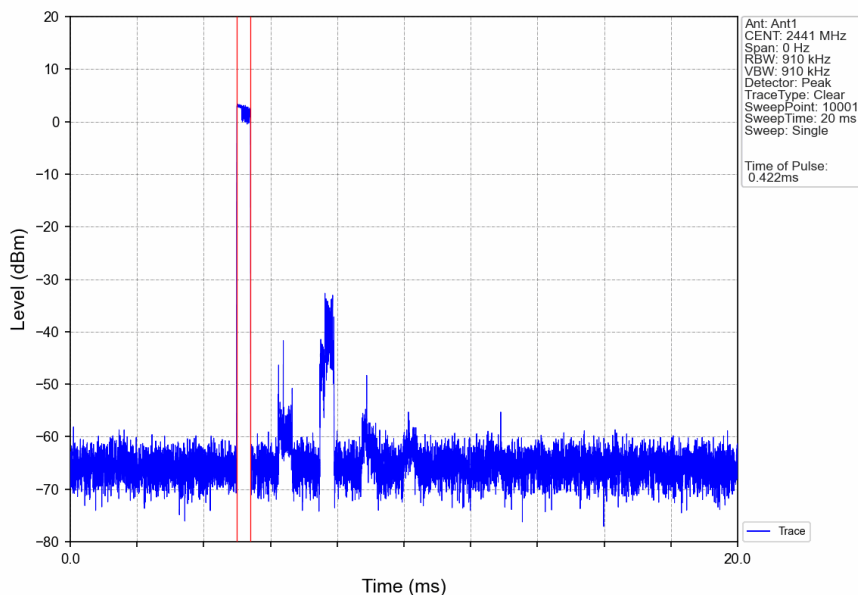
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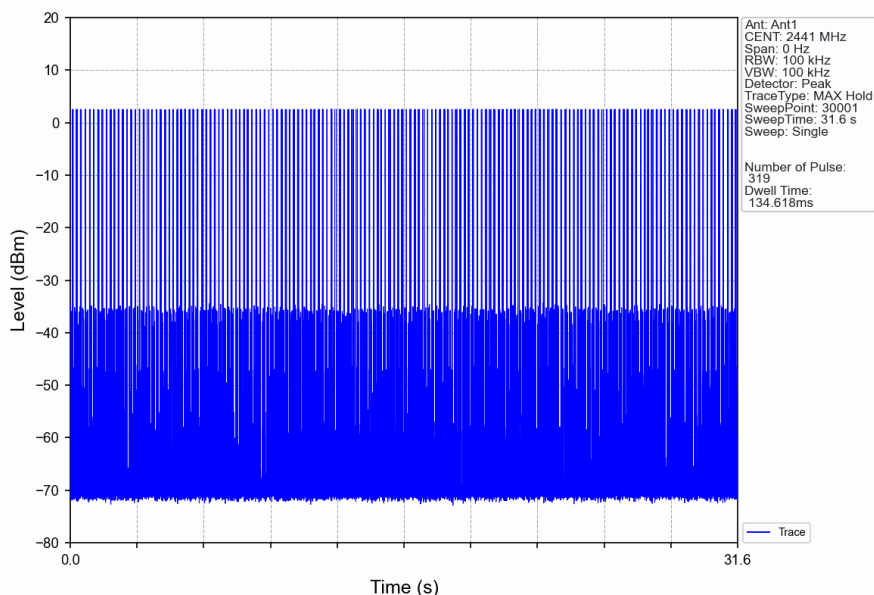
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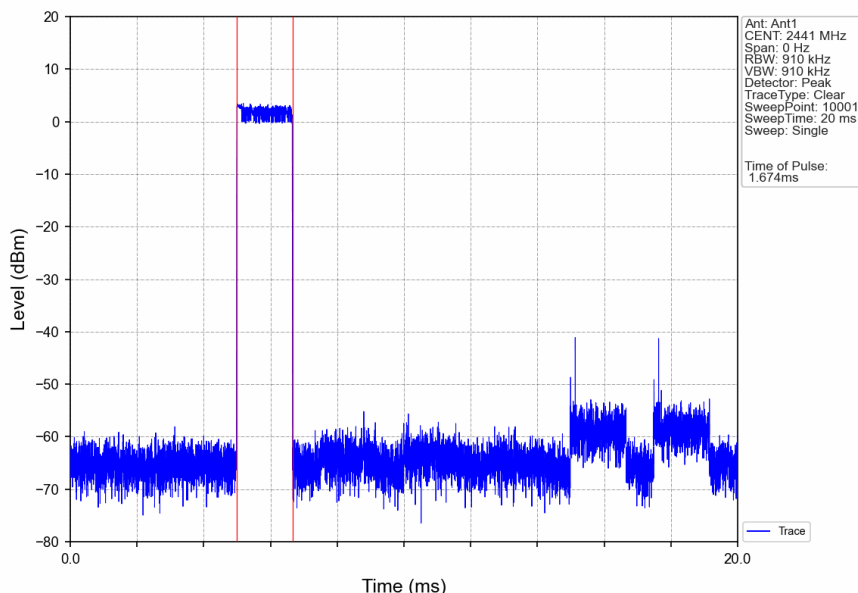
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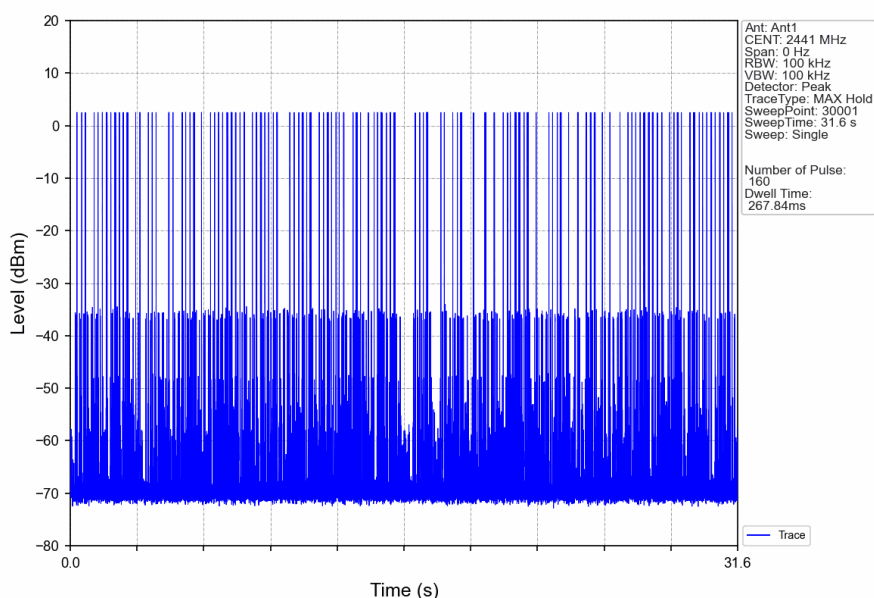
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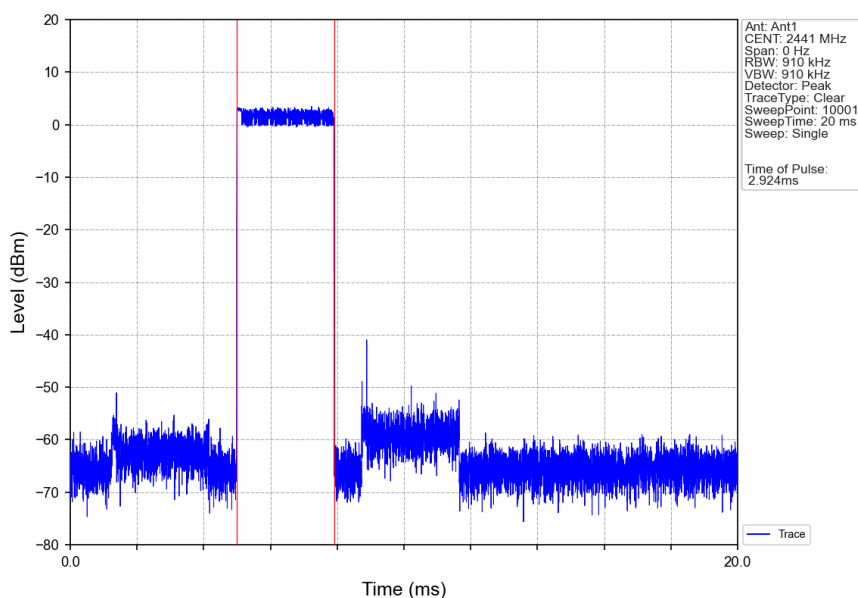
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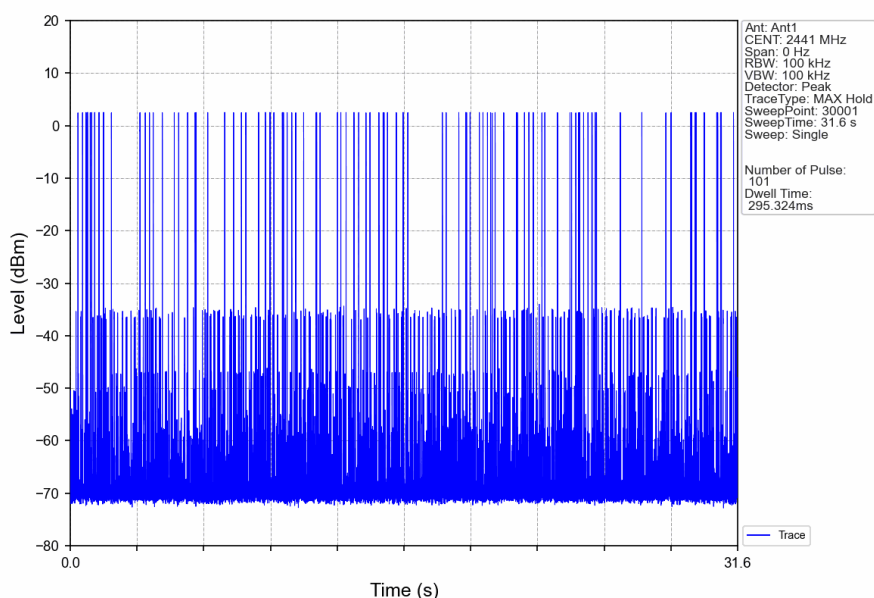
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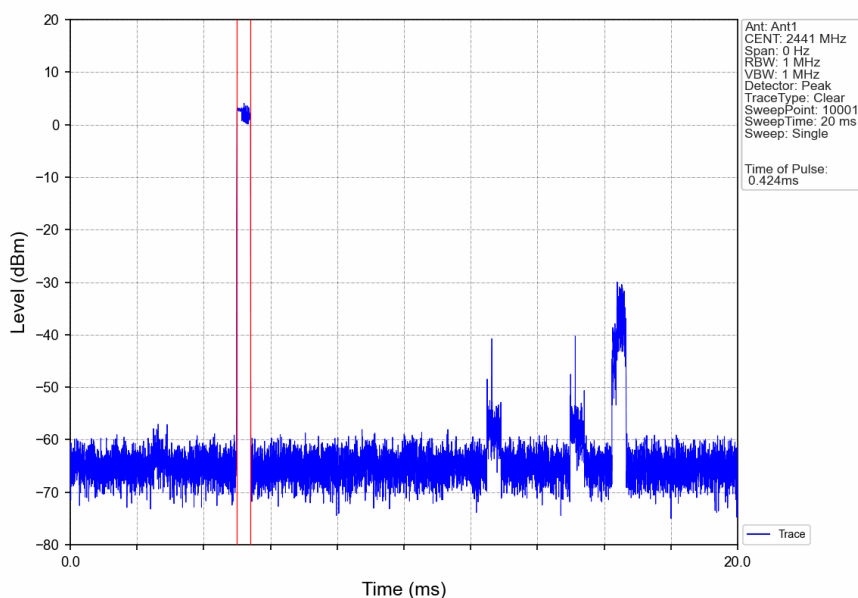
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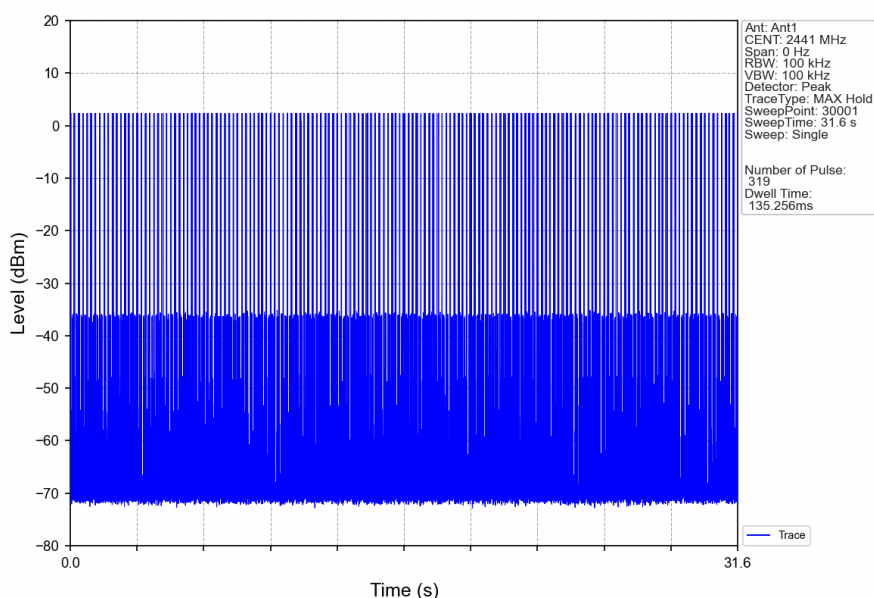
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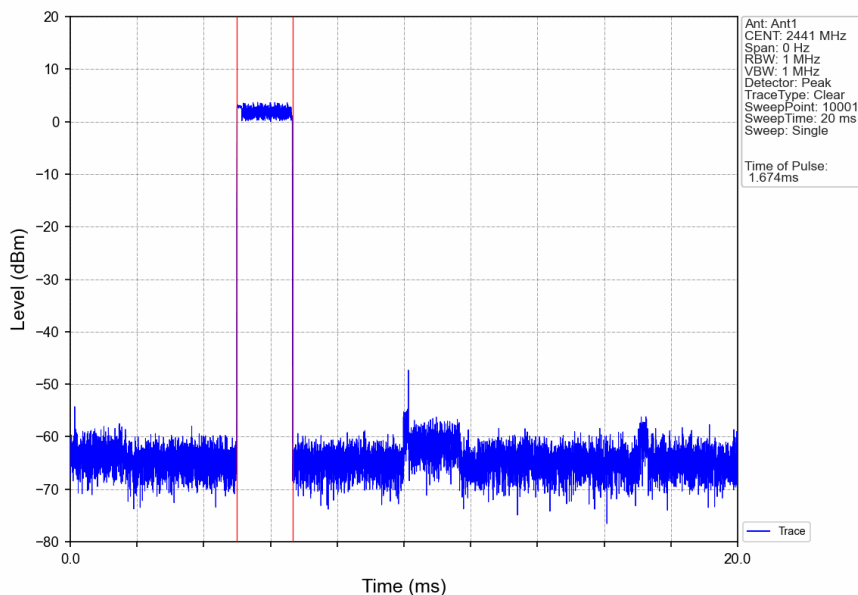
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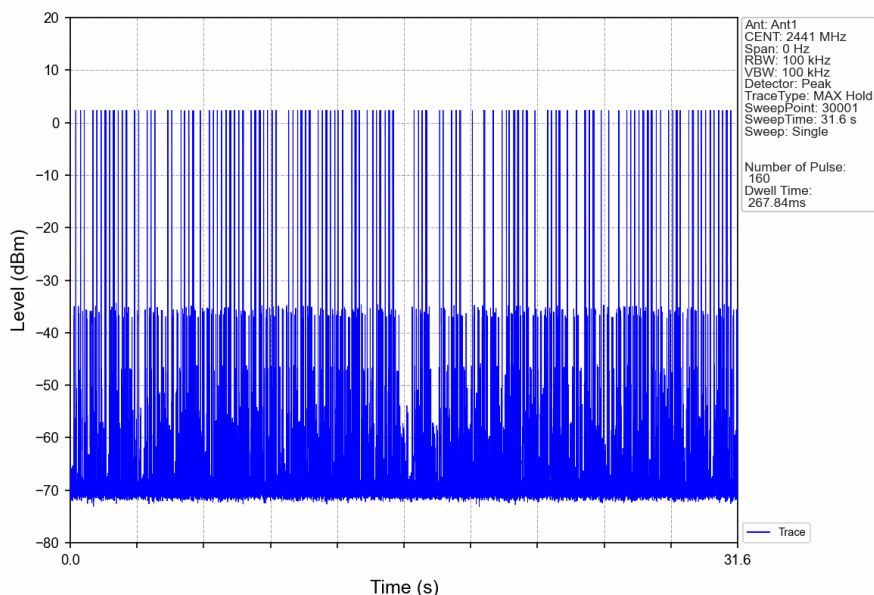
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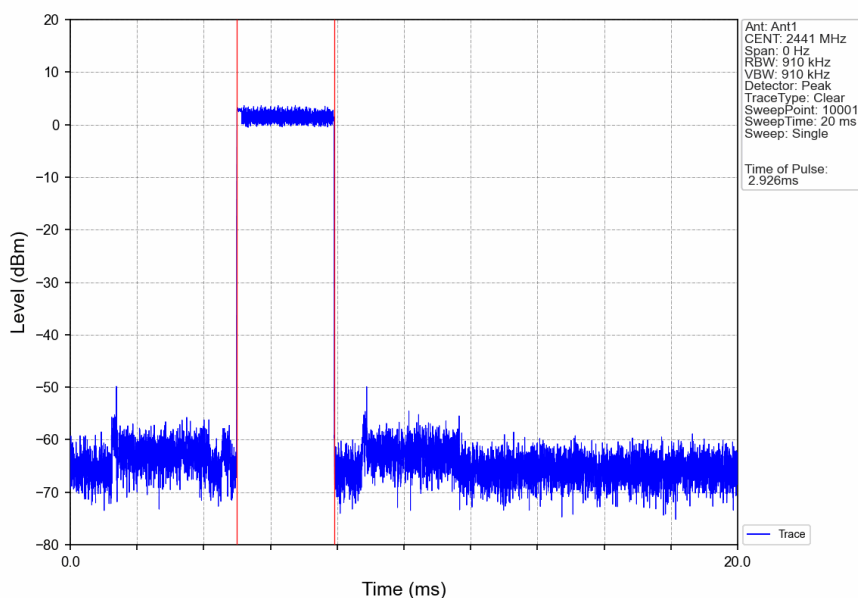
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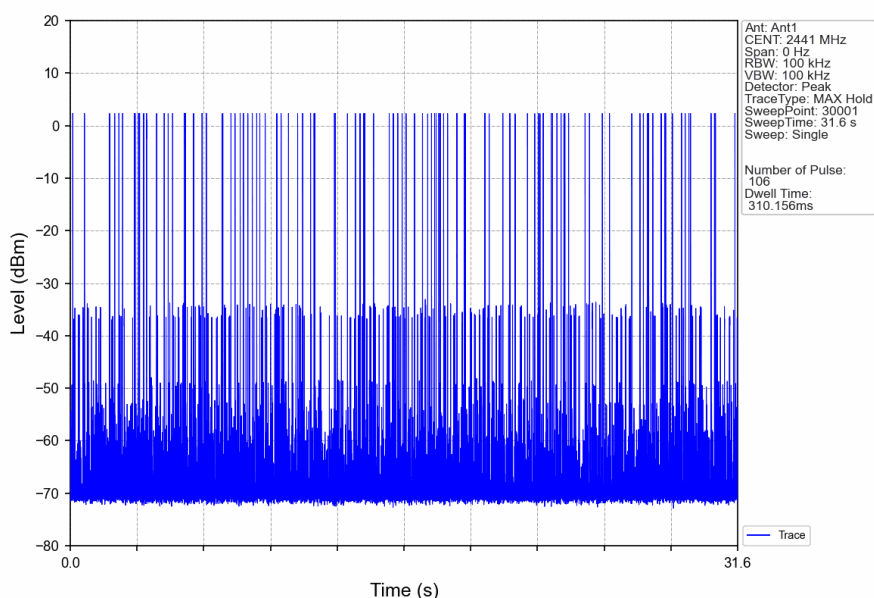
8DPSK_3DH3_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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	1	0.29
		2441	DH5	1	2.93
		2480	DH5	1	2.93
Pi/4DQPSK	SISO	2402	2DH5	1	3.45
		2441	2DH5	1	2.88
		2480	2DH5	1	2.84
8DPSK	SISO	2402	3DH5	1	3.71
		2441	3DH5	1	2.88
		2480	3DH5	1	2.76

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.



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6.1.2 CSE

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	Level of Reference (dBm)	Limit (dBm)	Verdict
GFSK	SISO	2402	DH5	1	2.93	-17.07	Pass
		2441	DH5	1	2.93	-17.07	Pass
		2480	DH5	1	2.93	-17.07	Pass
		HOPP	DH5	1	2.93	-17.07	Pass
					2.93	-17.07	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	3.45	-16.55	Pass
		2441	2DH5	1	3.45	-16.55	Pass
		2480	2DH5	1	3.45	-16.55	Pass
		HOPP	2DH5	1	3.45	-16.55	Pass
					3.45	-16.55	Pass
8DPSK	SISO	2402	3DH5	1	3.71	-16.29	Pass
		2441	3DH5	1	3.71	-16.29	Pass
		2480	3DH5	1	3.71	-16.29	Pass
		HOPP	3DH5	1	3.71	-16.29	Pass
					3.71	-16.29	Pass

Note1: Refer to FCC Part 15.247 (d) and ANSI C63.10-2020, the channel contains the maximum PSD level was used to establish the reference level.



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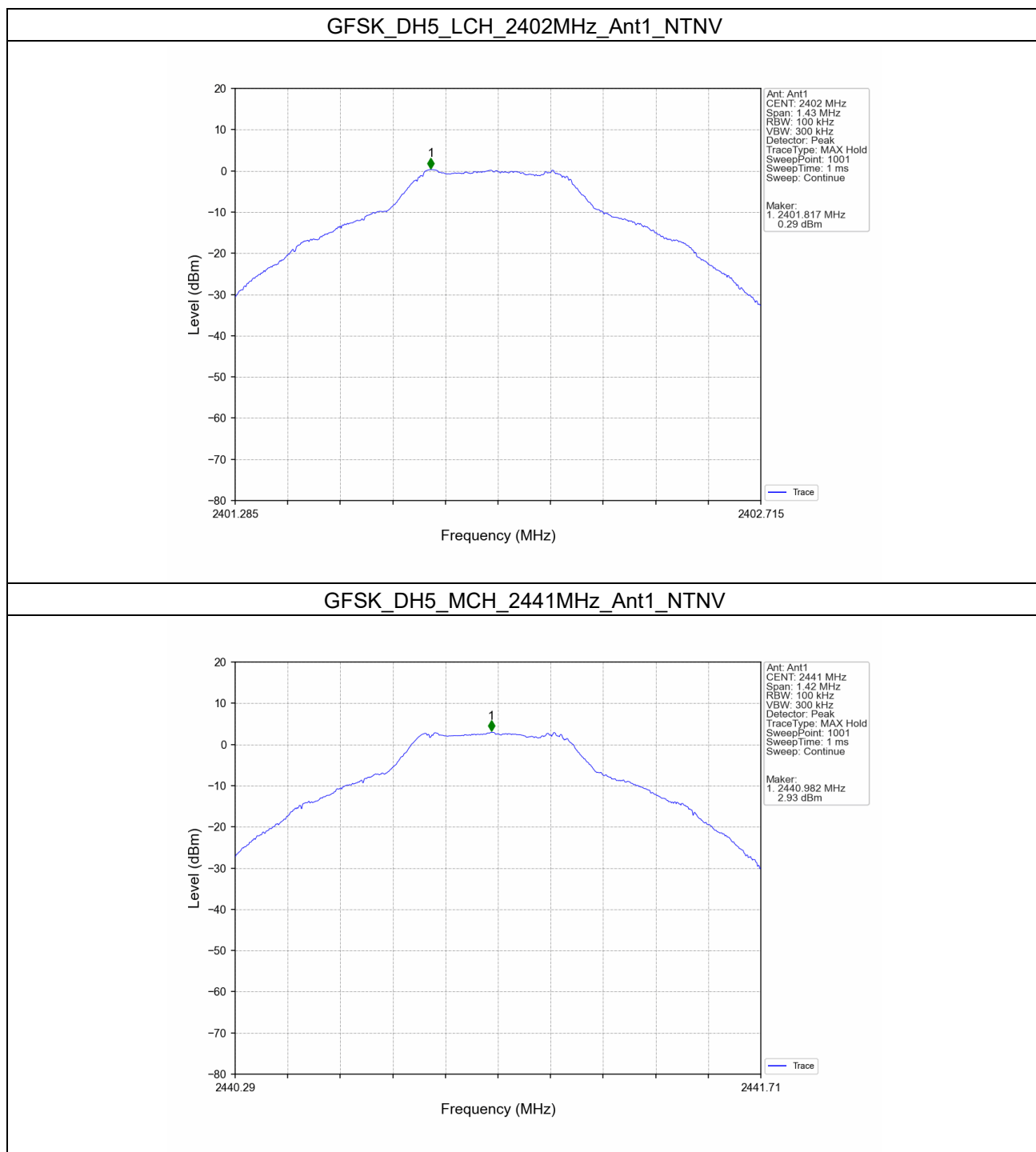
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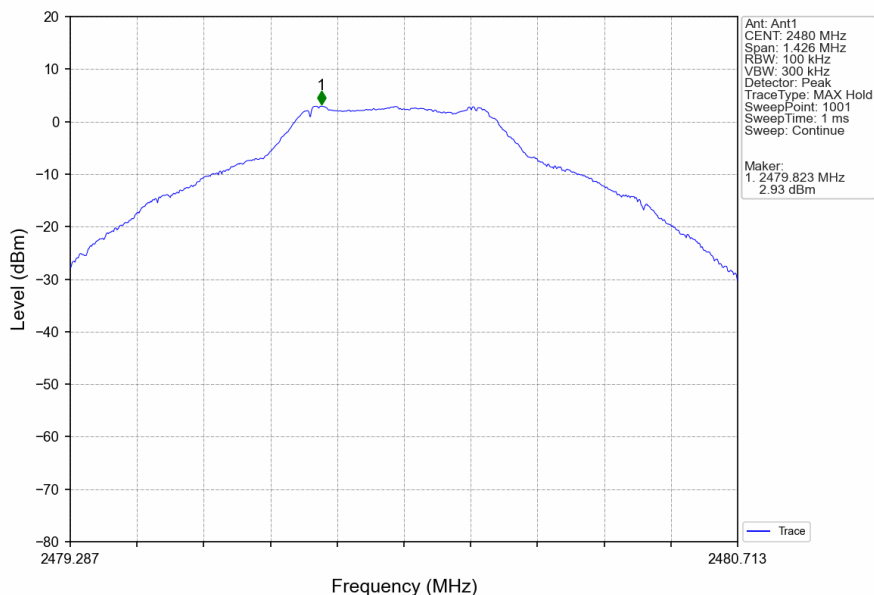
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6.2 Test Graph

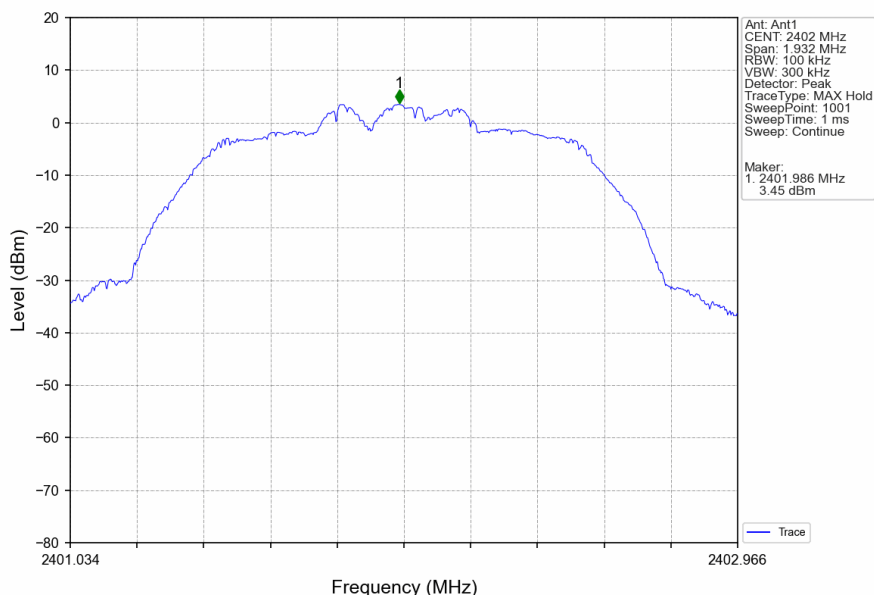
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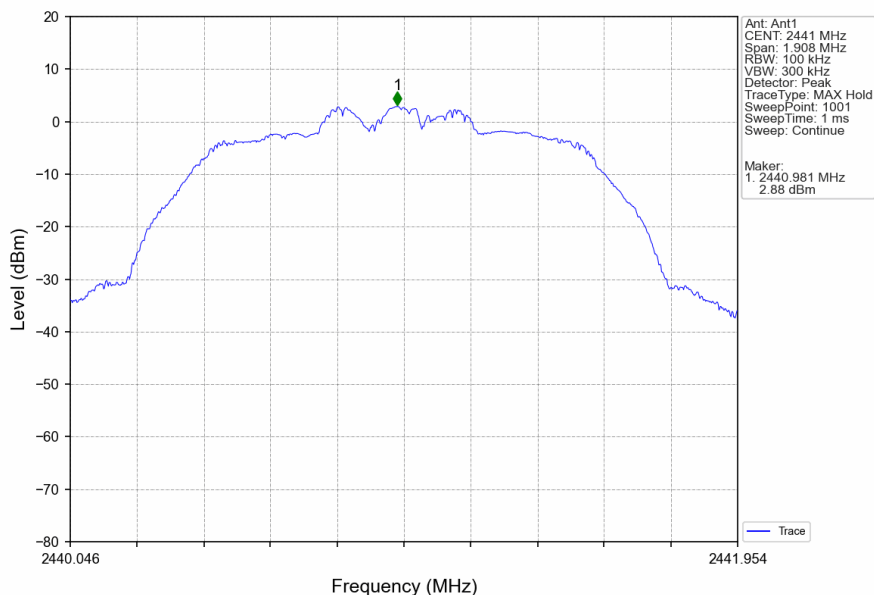
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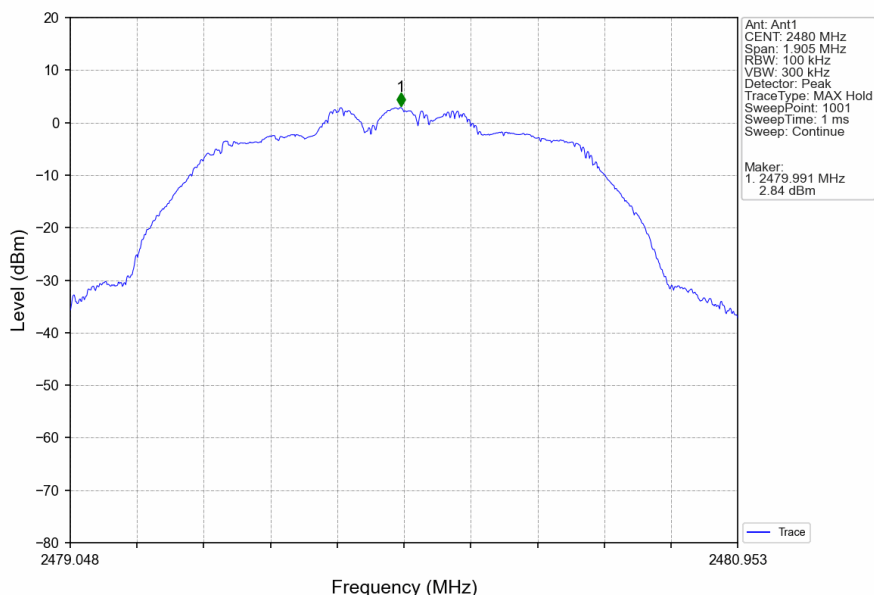
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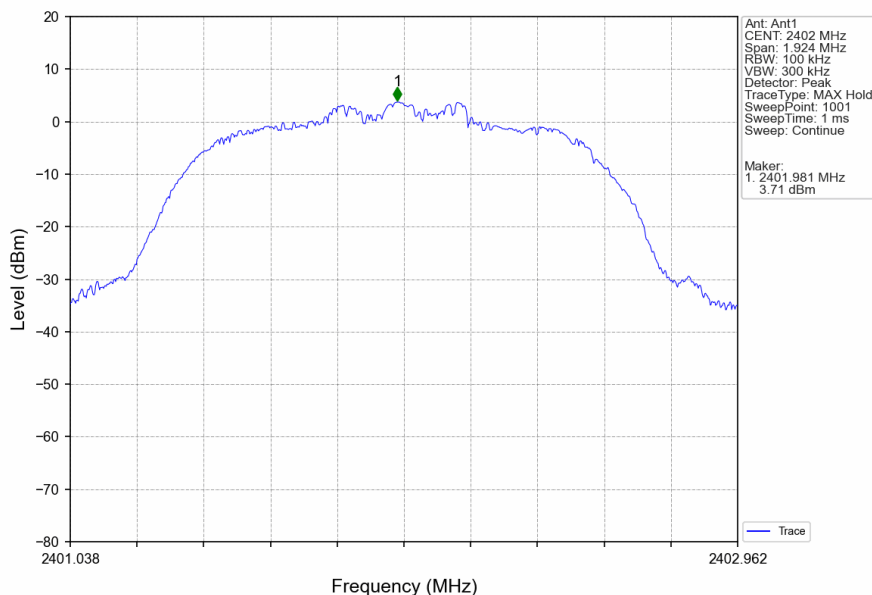
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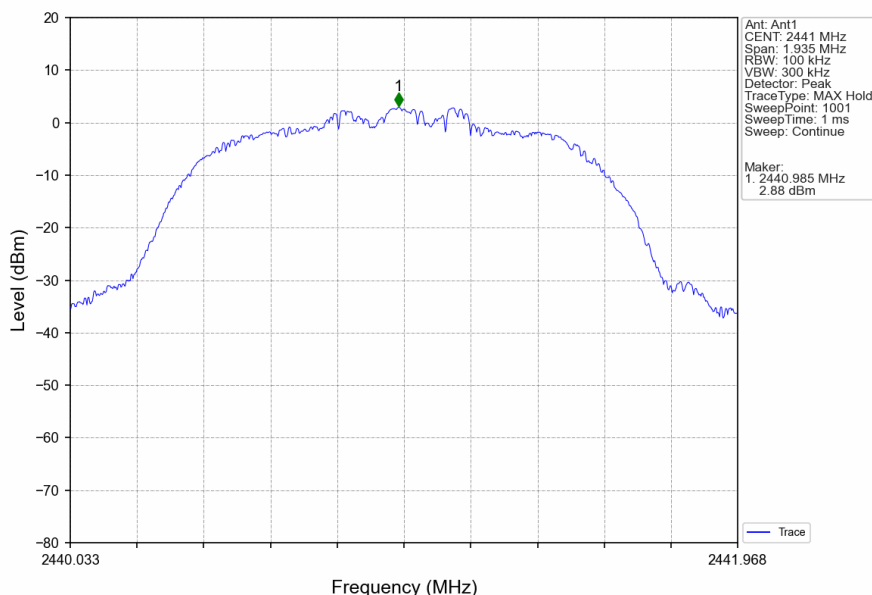
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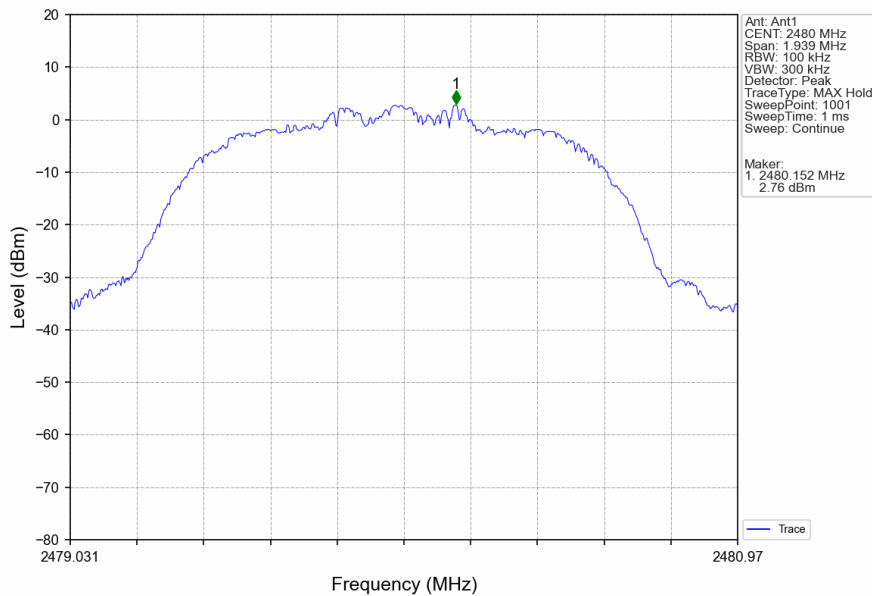
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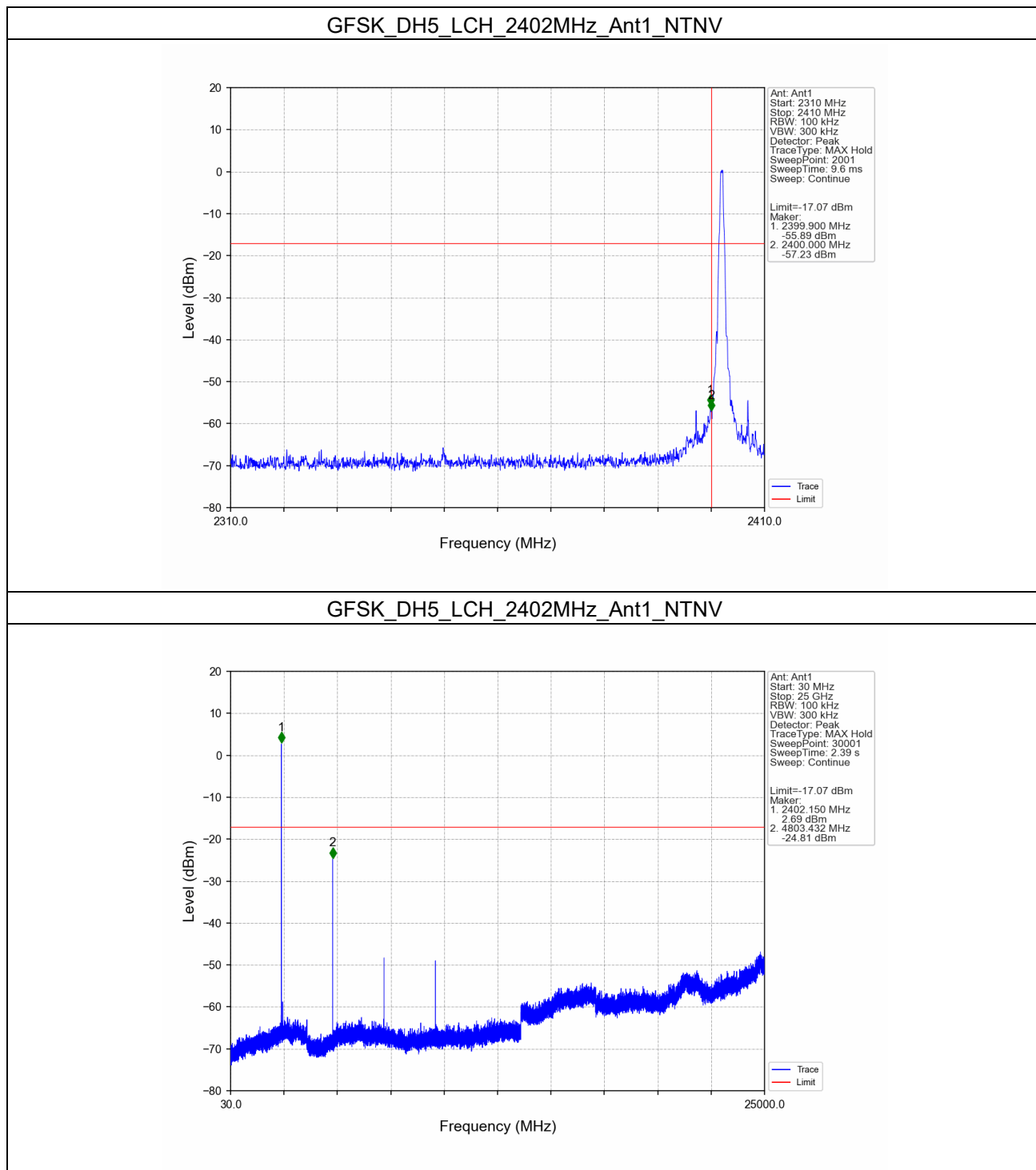
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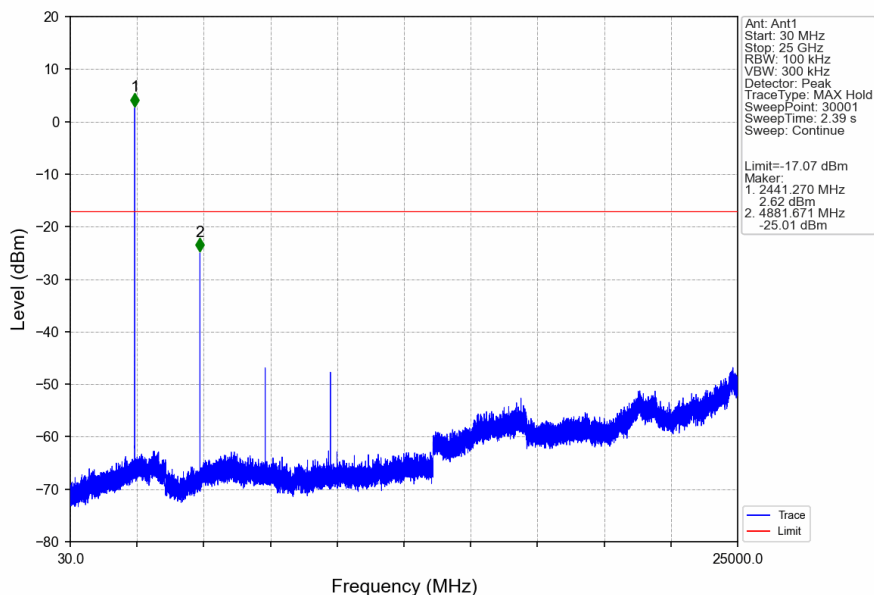
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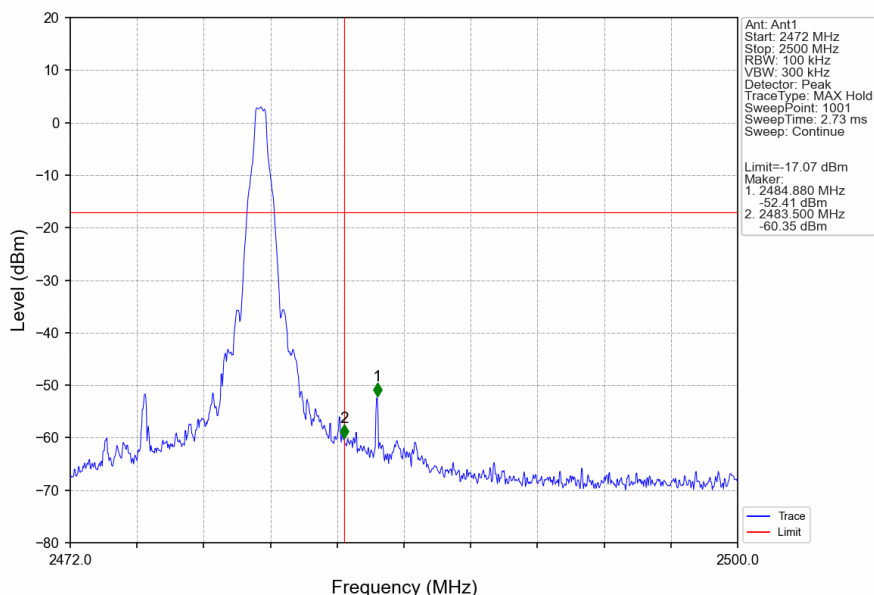
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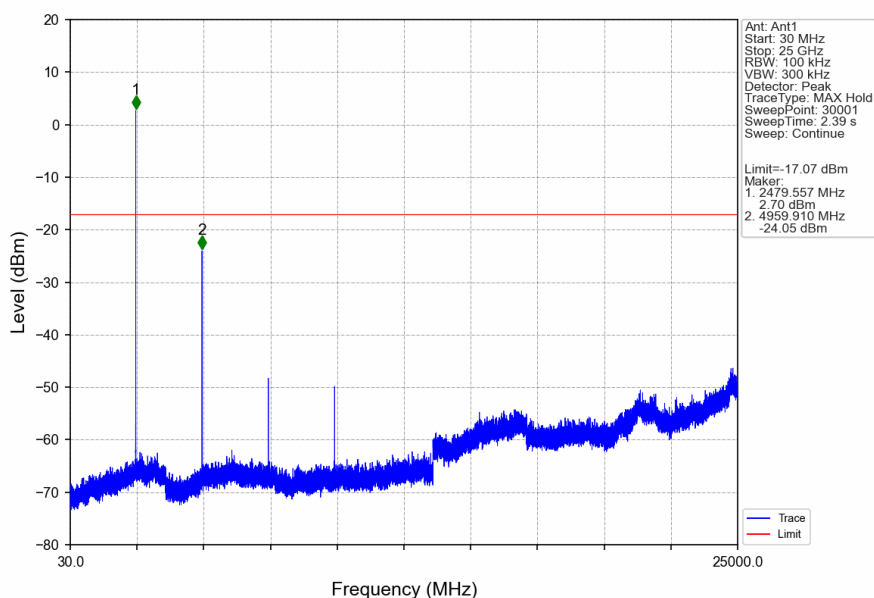
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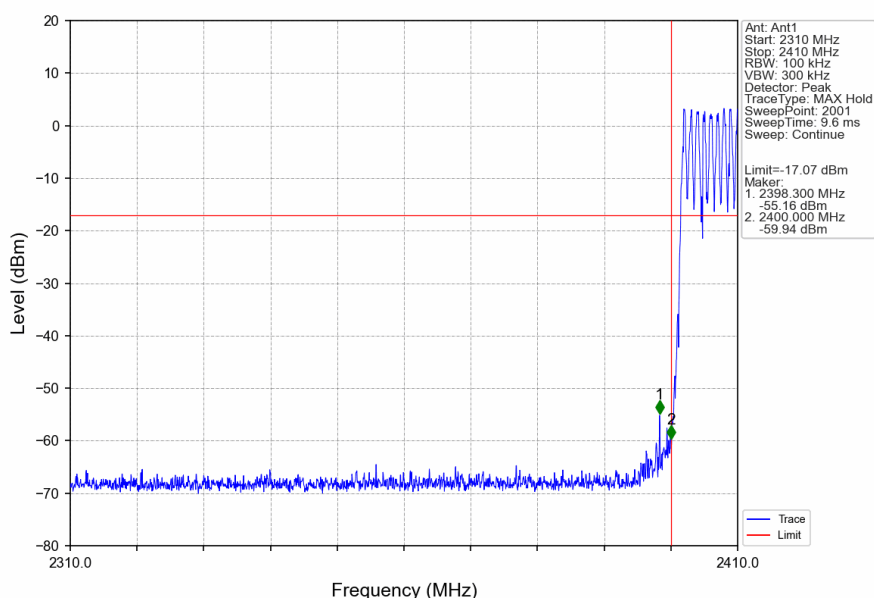
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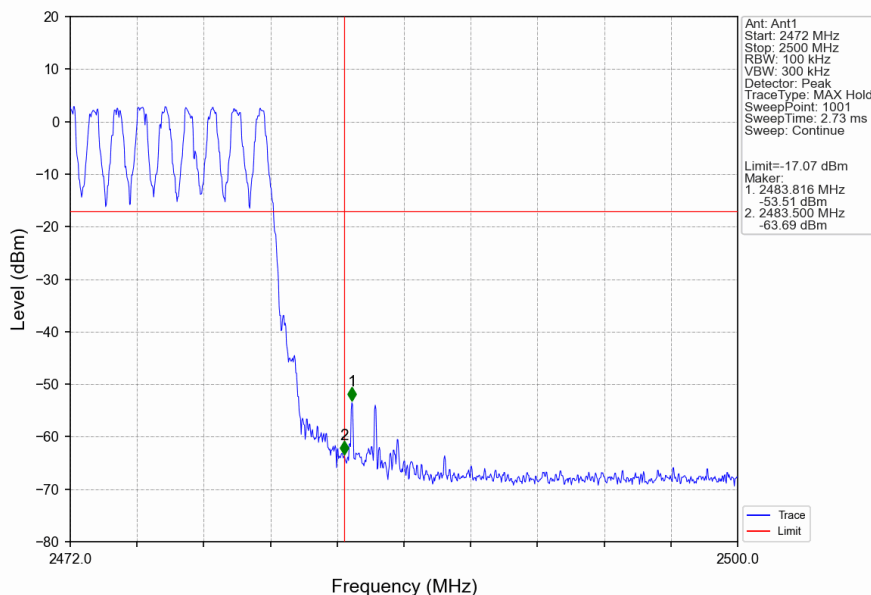
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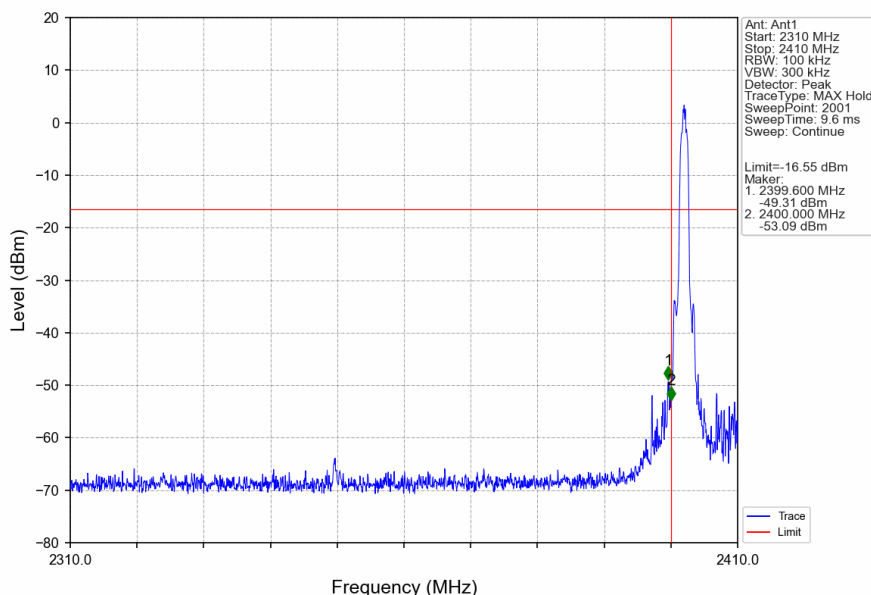
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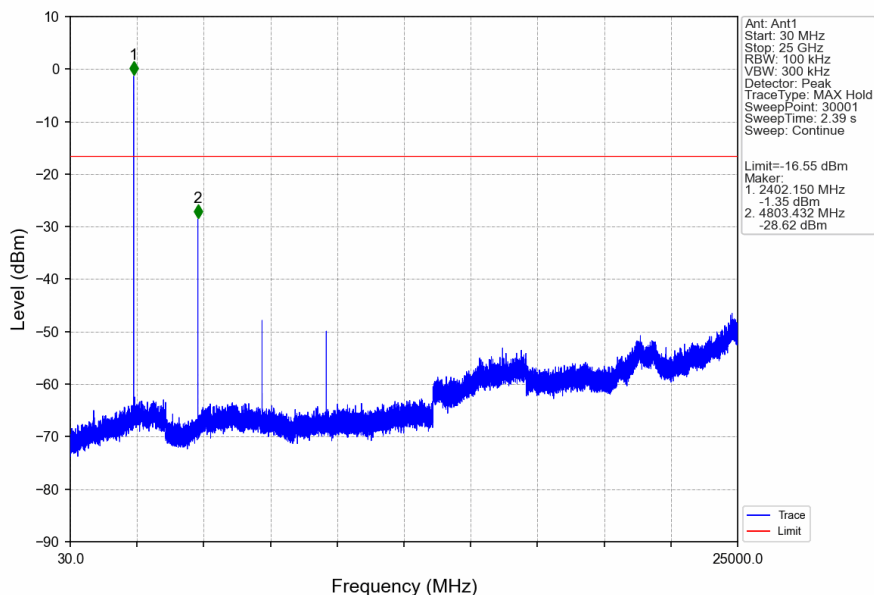
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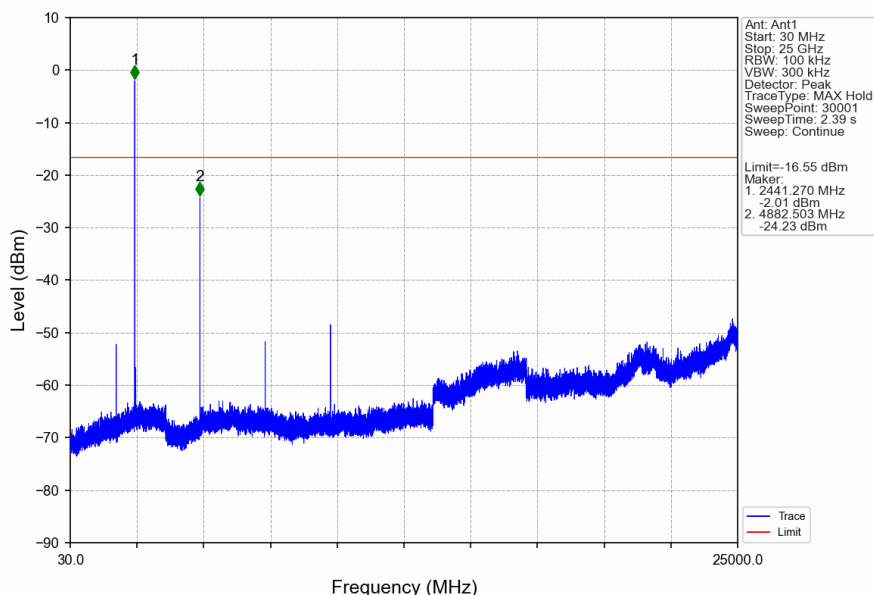
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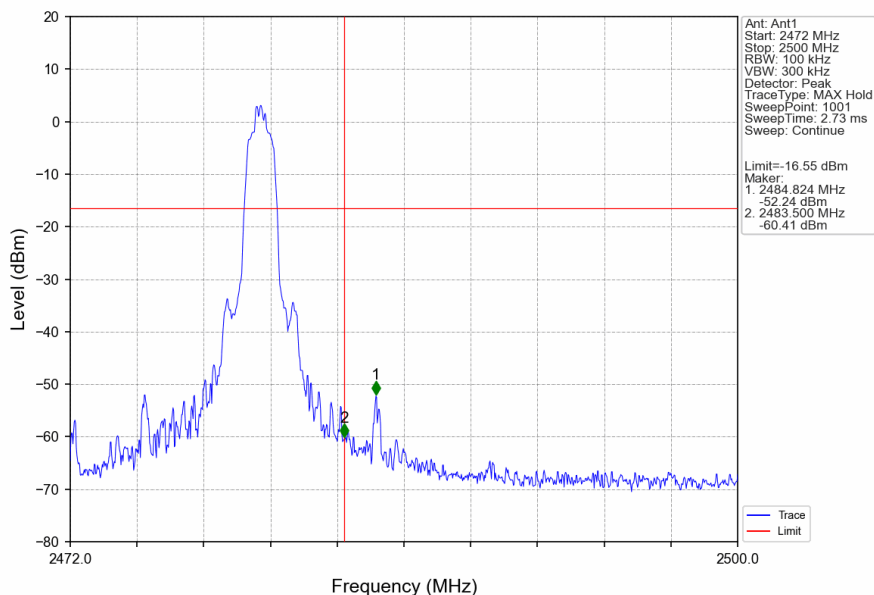
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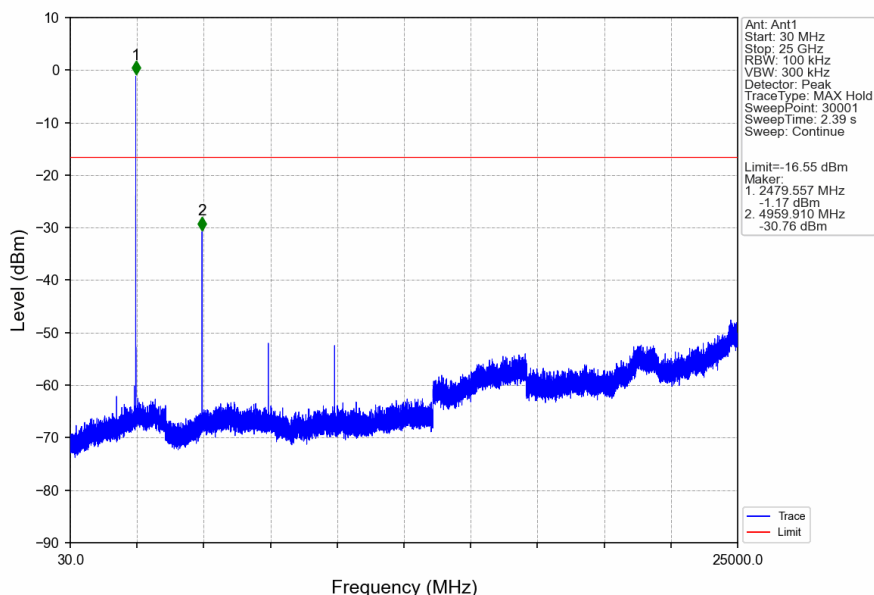
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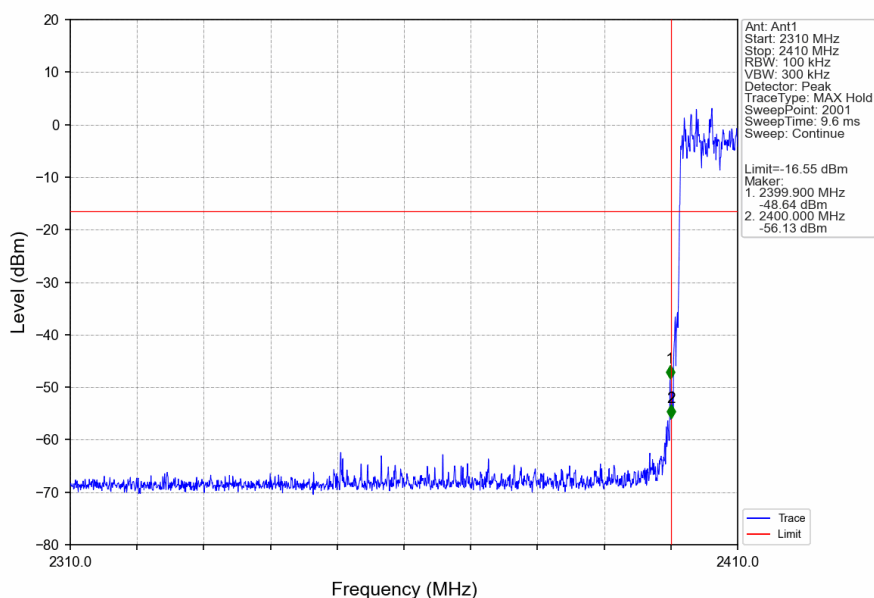
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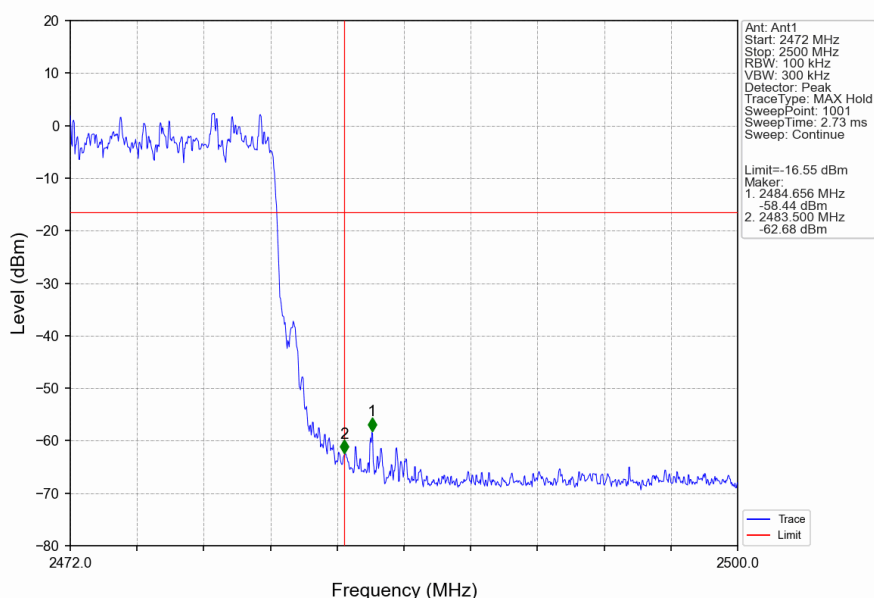
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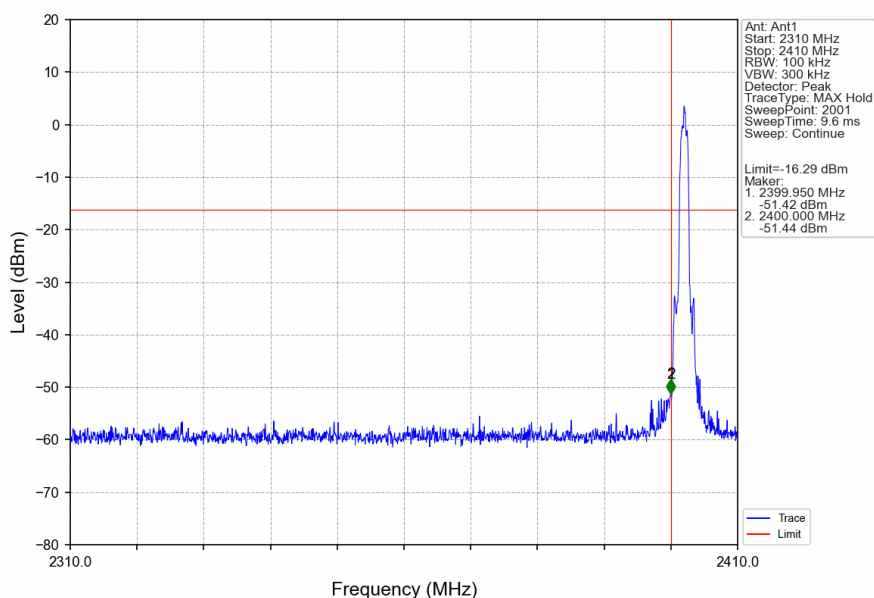
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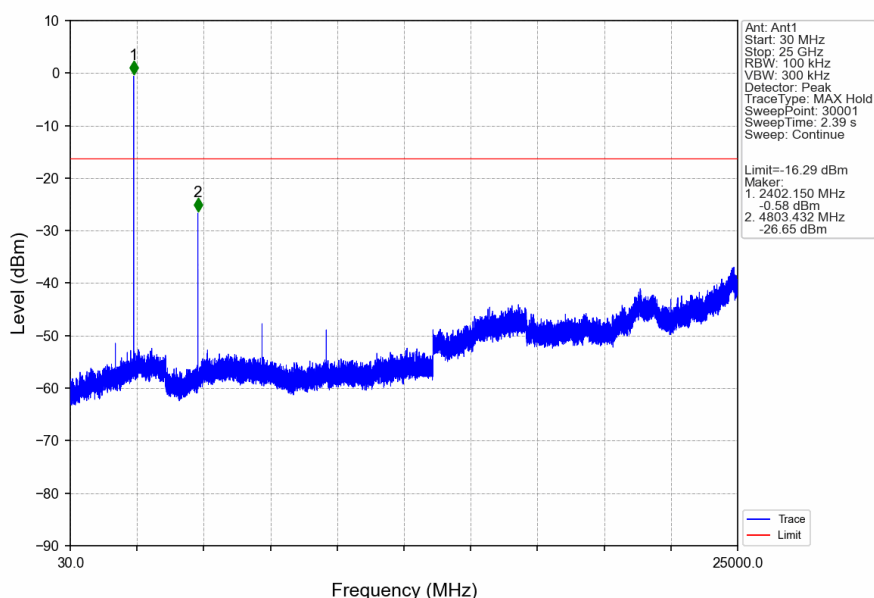
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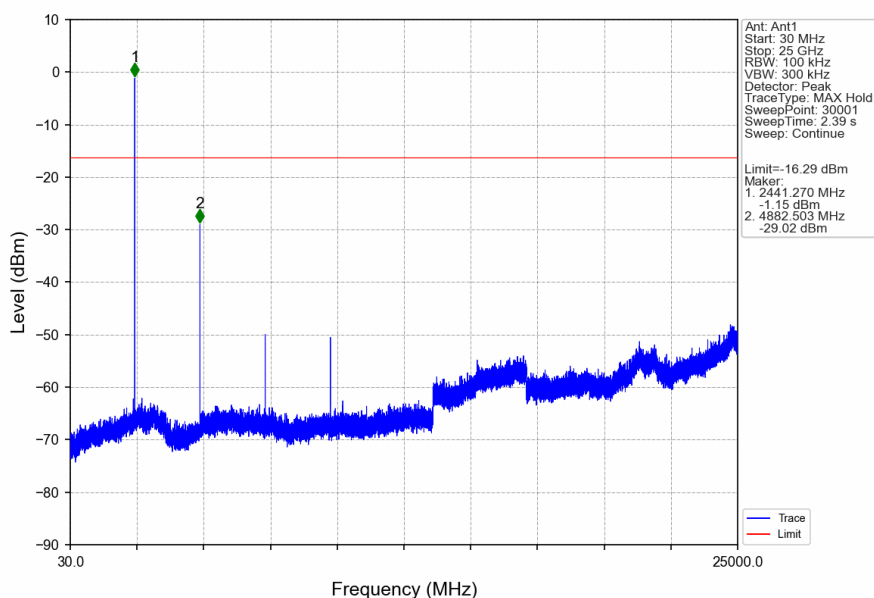
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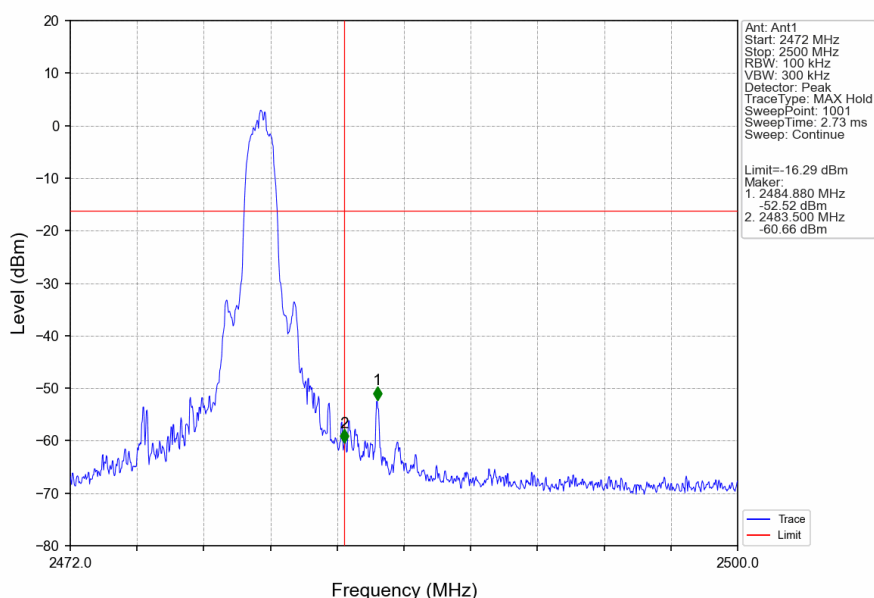
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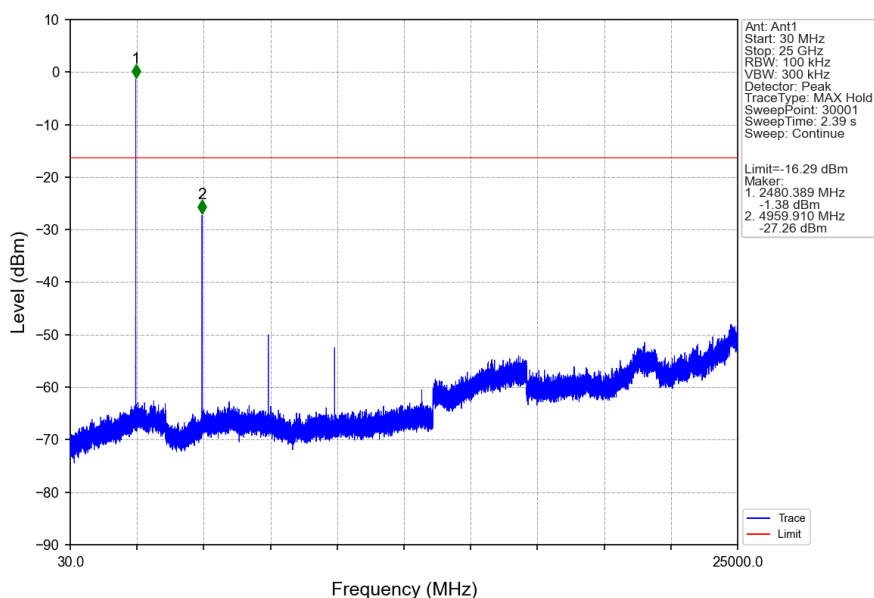
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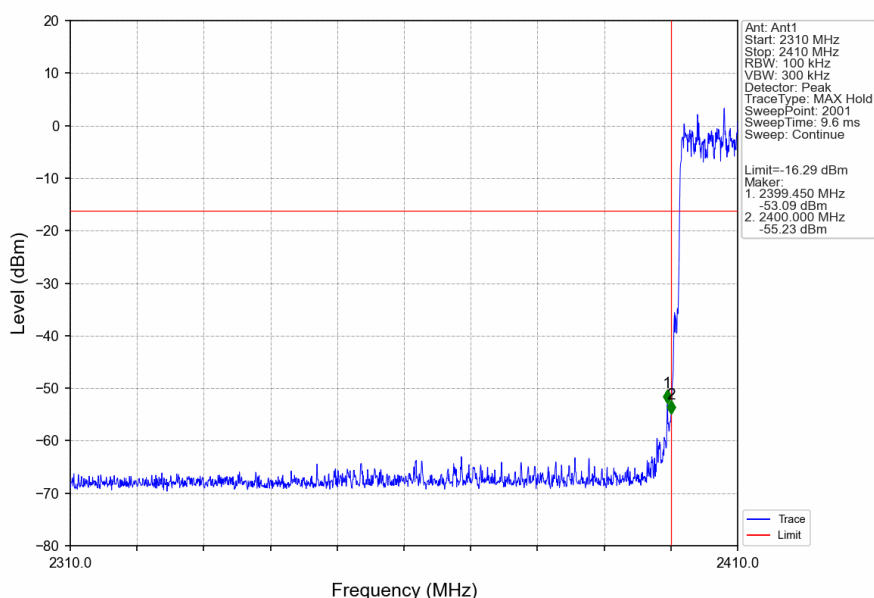
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



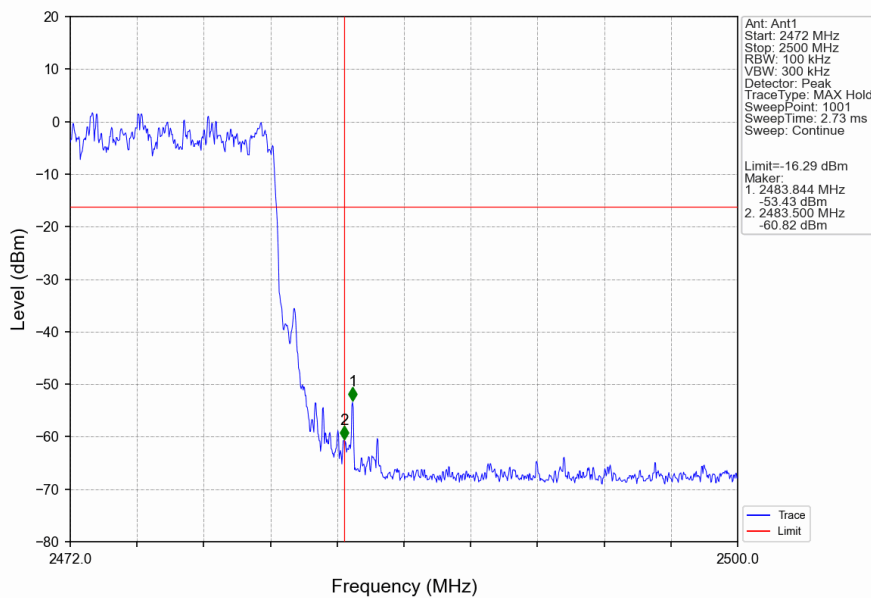
8DPSK_3DH5_HCH_2480MHz_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



8DPSK_3DH5_HOPP_Ant1_NTNV



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For left earbud:

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	1	0.864	/	Pass
		2441	DH5	1	0.862	/	Pass
		2480	DH5	1	0.860	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.157	/	Pass
		2441	2DH5	1	1.159	/	Pass
		2480	2DH5	1	1.160	/	Pass
8DPSK	SISO	2402	3DH5	1	1.171	/	Pass
		2441	3DH5	1	1.177	/	Pass
		2480	3DH5	1	1.183	/	Pass

1.1.2 20dB BW

Mode	TX Type	Frequency (MHz)	Packet Type	ANT	20dB Bandwidth (MHz)		Verdict
					Result	Limit	
GFSK	SISO	2402	DH5	1	0.961	/	Pass
		2441	DH5	1	0.964	/	Pass
		2480	DH5	1	0.963	/	Pass
Pi/4DQPSK	SISO	2402	2DH5	1	1.278	/	Pass
		2441	2DH5	1	1.278	/	Pass
		2480	2DH5	1	1.276	/	Pass
8DPSK	SISO	2402	3DH5	1	1.299	/	Pass
		2441	3DH5	1	1.288	/	Pass
		2480	3DH5	1	1.299	/	Pass

1.2 Test Graph

1.2.1 OBW

